



*Completed wood octagon gazebo
with single roof*

Octagon Wood Gazebo Kit Contents

Hardware included for assembling your gazebo:

2 1/2" screws—Use to

- fasten joist together
- fasten posts to outside joist
- fasten rafters to rafter header
- fasten benches & cupola

2" screws—Use to

- fasten railing to posts
- fasten roof sections together
- fasten roof sections to top railings
- screw down remaining deck boards

Required Tools (not provided)

Screw gun, hammer, ladder, vice clamps and/or C-clamps

Table of Contents

Section 1 Assembling Floor

Section 2 Erecting Railings with Post Sections

Section 3 Adding Temporary Support to Single Roof Sections

Section 4 Inserting Cupola Ring Before Final Roof Sections

Section 5 Capping the Roof

Section 6 Placing Cupola

Section 7 Installing Screen Panels

Section 8 Installing the Door

Appendix

Section A1 Adding Temporary Support to Pagoda Roof Sections

Section A2 Placing Pagoda Railing

Section A3 Installing Octagon Pagoda Roof



Kit as delivered



Unpacking kit

Section 1 Assembling Floor



Figure 1a



Figure 1b



Figure 1c

Step 1 Arrange the eight floor sections in order as they are marked #1 through #8. (Figures 1-A and 1-B) (You'll find the marks on the joists, towards the center of the sections.) Using 2 1/2" screws, fasten joist together. Use about 3 screws at the points where the deck boards are left out. Keeping the floor joist even at the top, fasten all floor sections together before proceeding to Step 2.

TIP Use a vise clamp or C-clamp (Figure 1-C) to hold joists while screwing them together. This helps to prevent the floor sections from moving. Be sure to keep top of joists even at the top and aligned at the corners.

Step 2 Lay remaining deck boards in place, keeping nicest side of the wood up (Figure 1-D). Use 2 1/2" screws to fasten the boards to the joist. If needed, pre-drill pilot holes to prevent from splitting.

NOTE If your gazebo has hidden wiring or receptacles, do not screw down decking boards until posts are in place. You might need access under the floor to connect wiring.



Figure 1d

IMPORTANT Once floor is assembled, double check that it is sitting solid and is level. An out-of-level floor will create problems during the rest of the assembly process.

Section 2 Erecting Railings with Post Sections

Step 3 Insert four posts and railing panels into floor pockets—keeping doorway position(s) in mind. If you have hidden wiring and receptacles, position those posts properly and facing the right way. Do not screw posts to the floor yet.

Step 4 Using 2" screws, fasten remaining (or all) bottom railings to the posts (see *Figure 2c*). The bottom of 1x3 railing legs will rest on the floor. Keep railing legs centered on the post. Railings will keep posts plumb once all seven railings are installed (see *Figure 2h* on next page.).

Install remaining top railing sections using 2" screws. Be sure to align top of the railing sections with the top of each post. See *Figure 2e* and *Figure 2f*.



Figure 2a



Figure 2b



Figure 2c



Figure 2d



Figure 2e



Figure 2f



Figure 2g



Figure 2h

Step 5 With all railings fastened in place, drive 2 1/2" screws from the outside skirt (floor) boards into posts—two on each side, four per post. See *Figure 2i*.



Figure 2i

For gazebos that come with the screen package

If your gazebo includes short railings that go from the door jamb to the post, you need to ensure that the railing is the same width as the bottom of the pre-hung door. As you install the railing, use a tape measure to measure in between at the bottom, then adjust the railing in or out to match the measured width. See *Figure 2g*.

CAUTION Up until this point, it has been a two-man job. Before beginning roof assembly, make sure you have a few vice clamps and/or C-clamps to help hold roof sections. You will also need two helpers. If you are assembling a 14- or 16-foot gazebo, the roof sections are quite heavy. For safety reasons, be sure you are ready before proceeding.



Figure 3a



Figure 3b



Figure 3c

Section 3 Adding Temporary Support to Single Roof Sections

NOTE This section provides instructions for installing a single roof. See *Appendix* for double (pagoda) roof installation instructions.

Step 6 Mark the inside top center of each post $15/8$ " from the edge (See *Figure 3a.*). With helpers, position the first roof section in place. Keep rafter plate (a 2x8 board at the bottom of each roof section) about $1/4$ " in past the post on both sides. On larger gazebos, or if helper has trouble holding up the center part of the roof section, fasten a 2x4 to prop up the center. Use vise clamps to hold in place, and then drive 2" screws into rafter plate. Drive them upwards, in between spindles of top railing—four screws per section, one close to either post, the remaining two screws towards the center of railing section. (See *Figure 3c.*) Before you fasten any screw, make sure the outside of the rafter plate is aligned and parallel with the top of the top railing. Only use screws into the rafter plate on the first section at this time.



Figure 3d

Step 7 Place the second roof section next to the first. Using 2" screws, fasten rafters together. (See *Figure 3d.*) Use four screws (two from each side about every 16") to fasten adjoining rafters. (Do not screw rafter plates to top rail sections until Step 9.) Clamps should be used to hold rafters until screws are driven. Clamp each rafter plate to railings to prevent movement on top railings and posts. Align rafters at the bottom of the rafter header.



Figure 3e

Section 4 Inserting Cupola Ring Before Final Roof Sections



Figure 4a

Step 8 Once the second roof section is secure, continue to fasten the remaining roof sections together. Use clamps to keep rafters tight together while driving screws. Before final section is in place, insert rafter collar. *Figure 4a* shows the rafter collar with the screws (10 x 2 1/2") started and ready to install.



Figure 4b

Align the bottom of the collar with the bottom of the rafters and screw into each rafter with 2 1/2" screws. Install and secure final roof section. Check to be sure that all rafters are resting evenly on top of posts and that plates are parallel with the top railing sections.



Figure 4c

Step 9 Fasten rafter plate to top railing for remaining sections as was done in Step 6. You may have to adjust posts in or out, so the rafter plate splice comes to center of post (*Figure 4d*). Make sure all screws in roof assembly are in place before proceeding.



Figure 4d

Step 10 Fasten fascia boards to outside of each rafter section. Be sure to push up snug against the roof shingles. Use three 2" screws. To avoid splitting, you may want to drill pilot holes. Align ends of fascia boards with seam of rafters. (See *Figure 4e*.)



Figure 4f



Figure 4e

Section 5 Capping the Roof



Figure 5a



Figure 5b



Figure 5c

CAUTION The next step requires you to get on the roof of the gazebo. Cedar shake shingles can be slippery when wet. Do not attempt this step if it is or has recently been raining. In addition, the shingles can be trip hazards. Use care—and a helper—when on the roof.

Step 11 Fasten felt paper flashing onto roof, covering the seam between the roof sections.

Look at the shingle cap pieces. You will notice four different types. The angled cuts and length determine where they are used. Nail the caps in place using four 1 1/4" roofing nails, two nails per each side of the caps. Be sure to place two nails high enough so they are not exposed, but rather covered by the next cap (See *Figure 5b*). If you have access to an air gun, you can use 7/16" x 1 1/4" galvanized staples.

The shorter shingles that have angled cuts on both ends are used first. Line up the bottoms of the starter caps with the bottom of the first row of shingles. These pieces fill the gap between the sections of roofing at the bottom. (See *Figure 5a*.) The longer pieces with angled cuts on both ends go next, also aligning with the bottom of the first row of shingles and covering up the first cap.

Continue the capping by using the longer caps that are only angle cut on one end. The angles go to the top, and the straight cuts are at the bottom, and will be left exposed. Line up the bottoms of the caps with the shingles. (See *Figure 5b* and *Figure 5c*.)



Figure 5d

The final caps are straight cut, on the bottom, and angled on the top. The angles butt up against the rafter collar. (See *Figure 5d*).

Section 6 Placing Cupola



Figure 6a

The pre-built cupola will slip over the rafter collar and set on top of the final shingle caps. Using four 2 1/2" screws in the pre-drilled holes, fasten cupola to the roof. (See *Figure 6c.*)

If your gazebo comes with a screen kit, fasten the screen collar before installing the cupola.



Figure 6b

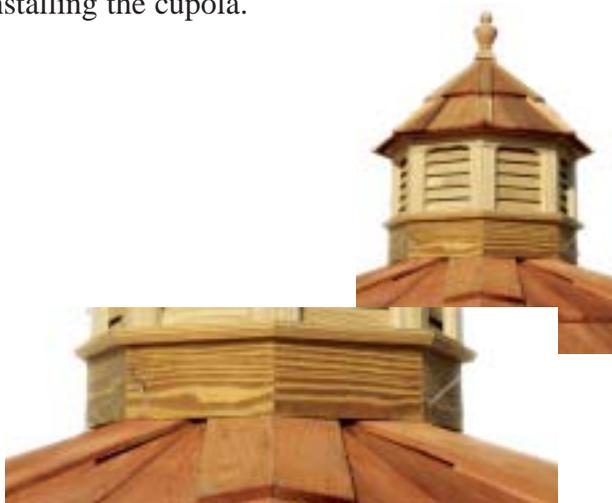


Figure 6c

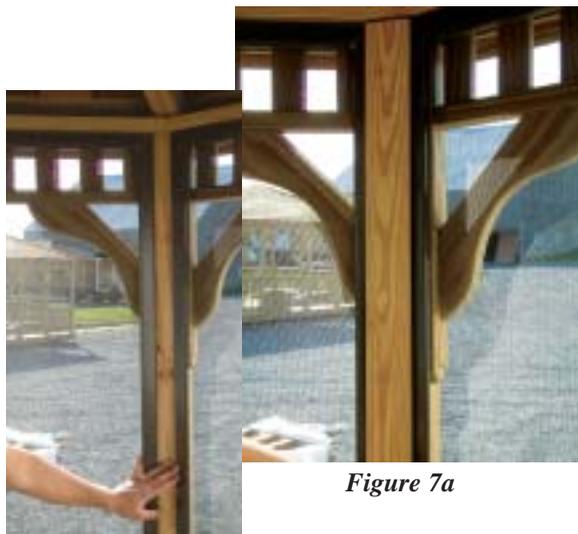


Figure 7a

Section 7 Installing Screen Panels

With the help of another person, set two screen panels in place, retaining the same distance to the rafter plate splice on either side. Then use four 2" screws to fasten a retainer strip to the post. (See *Figure 7a*.) Proceed one screen panel at a time until completed.

NOTE You will notice two retainer strips will have a channel on one side only. These belong at either side of the door.



Figure 8a

Section 8 Installing the Door

Before fastening the pre-hung door with three 2" screws (*Figure 7a*), measure from the jamb to the post on either side at the top to ensure the door is centered in the opening.

After the top is fastened, pre-drill eight holes. Next, use eight 2 1/2" screws to fasten the jamb to the railing—four screws on either side.



Figure 8b

Using three 2" screws, fasten the bottom into the deckboards. (See *Figure 8c*.) Be sure to have the same distance to the edge of the deck board on each end. Install the upper door-screen panel first, then the panels on either side of the door.

For the hardware, install the latch first and then the door closer and the safety chain.



Figure 8c

Congratulations!!

You have finished your gazebo!

Appendix

Section A1 Adding Temporary Support to Pagoda Roof Sections



Figure A1a



Figure A1b



Figure A1c

CAUTION Up until this point, it may have been a two-man job. Before beginning roof assembly, however, make sure you have a few vice clamps and/or C-clamps to help hold the roof sections in place. You will also need helpers. For safety reasons, be sure you are ready before proceeding.

Step A1 Mark the inside top center of each post 1 5/8" from the edge. With helpers, position the first roof section in place. Keep rafter plate (2x8 boards at the bottom of each roof section) about even with inside of post on both sides. On larger gazebos, or if helper has trouble holding the center part of the roof section up, carefully use a 2x4 to prop up the center. See *Figure A1c*.

Use vise clamps to hold in place, and then drive 2" screws into rafter plate. Drive them upwards, in between spindles of top railing—four screws per section, one close to either post, the remaining two screws towards the center of railing section. (See *Figure 3c* on page 5.) Before you fasten any screw, make sure the outside of the rafter plate is aligned and parallel with the top of the top railing. Only use screws into the rafter plate on the first section at this time.

Step A2 Place the second roof section next to the first and—using 2" screws—fasten the rafters together. Use two screws (about every 16") to fasten adjoining rafters. (Do not screw rafter plates to the top rail sections until Step A4.) Clamps should be used to hold rafters until screws are driven (see *Figure A1d*). Clamp each rafter plate to the railings to keep them from moving on top railings and posts. Align rafters at bottom of rafter header.



Figure A1d



Figure A1e



Figure A1f



Figure A1g



Figure A2a

Step A3 Once the second roof section is secure, continue to fasten remaining roof sections together. Use clamps to keep rafters tight together while driving screws. (See *Figure A1d*.)

Before the final section is in place, insert the rafter collar. Align the bottom of the collar with the bottom of the rafters and screw into each rafter with four 2 1/2" screws. Install and secure final roof section. Check to be sure that all rafters are resting evenly on top of posts and that plates are parallel with the top railing sections.



Figure A1h

Step A4 Fasten the rafter plate to the top railing for remaining sections as was done in Step A1. You may have to adjust posts in or out, so the rafter plate splice comes to the center of the post. Make sure all screws in the roof assembly are in place before proceeding.

Step A5 Fasten the fascia boards to the outside of each rafter section. Be sure to push up snug against the roof shingles. Use three 2" screws. To avoid splitting, you may want to drill pilot holes. Align ends of fascia boards with seam of rafters.

NOTE Fascia boards may be a little long—you have to adjust the corner screws so the corners will align.

Section A2 Placing Pagoda Railing

Step A6 *Figure A2a* shows installing the pagoda header before the last roof section. You may have to push the roof sections upward to get the header in place. Adjust the header up or down so you have only the railing visible above the shingle (see *Figure A2b*). Then fasten to the rafters with four 2 1/2" screws (see *Figure A2c*, next page).

After the header is fastened to the entire roof section, double up the 2x6 header on the inside, as shown in *Figure A2c*.



Figure A2b



Figure A3a



Figure A3b



Figure A3c



Figure A3f



Figure A2c

TIP First fasten all eight pieces together with two 2 1/2" screws at the corners. Then have someone help you lift the pagoda in place until you have secured it.

Section A3 Installing Octagon Pagoda Roof

Step A7 The pagoda roof is quite heavy. If you don't have access to a forklift, you will need four or more men to set the pagoda roof in place. *Figure A3a* shows 4x4s leaning against the gazebo to create a ramp for sliding the roof upwards.

To install the rubber slate hip capping, use 3/4" nails or staples. Install the starter cap. Then proceed with the rest of the capping. (Note: Asphalt capping is more or less the same.) See *Figure A3d* and *Figure A3e*.



Figure A3d



Figure A3e

Step A8 Make center marks on your post. Slide the roof in place. Using 2 1/2" screws, fasten the pagoda roof in place.

The pre-built cupola will slip over the rafter collar and set on top of the final shingle caps (*Figure A2b*). Using four 2 1/2" screws in the pre-drilled holes (*Figure A3g*), fasten the cupola to the roof—making sure to center it.



Figure A3g

Return to Section 7, page 9, *Installing Screen Panels*.