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LITTLE COTTAGE CO.

# Classic Gambrel Barn with 6' Sidewalls

## ASSEMBLY INSTRUCTION MANUAL



**SIZES:** 8x8, 8x10, 8x12, 8x14, 8x16, 10x10, 10x12, 10x14, 10x16, 10x18, 10x20, 12x12, 12x14, 12x16, 12x18, 12x20, 12x24

### TOOLS NEEDED:

- Cordless Drill (12 V or Higher)
- #2 Square Drive Bit
- 5/16" Drill Bit
- Hammer
- 6' Step Ladder
- Tape Measure
- Square Utility Knife with Blade and Hook Blade
- Speed Square
- Chalk and Chalk Line
- Allen Wrench

### ITEMS TO PURCHASE:

- Shingles
- Drip Edge
- Paint
- Caulk, Optional

For Quantities See The Kit Packing List Included



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#### Have Questions?

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CLASSIC  
GAMBREL  
6' SW





# CLASSIC GAMBREL BARN WITH 6' SIDEWALLS ASSEMBLY INSTRUCTION MANUAL

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**THANK YOU** for purchasing from Little Cottage Company!

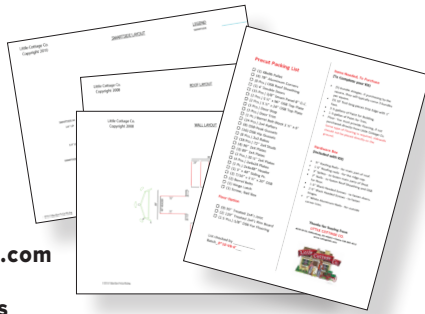
If you have questions during assembly, please don't hesitate to contact us.

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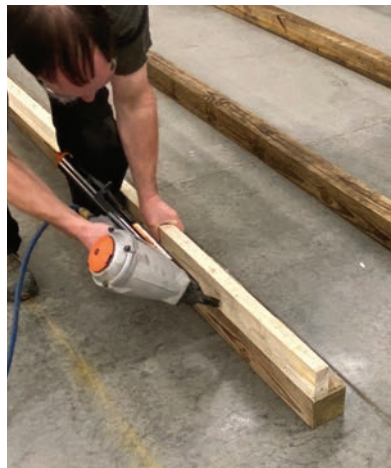
**1. TO BEGIN CONSTRUCTION** of your new building, first locate the layout diagrams (Wall, Roof, etc.) along with the Kit Packing List that is included with your assembly manual. **Please see the Kit Packing List for items you will need to purchase to help assemble this kit.**

**You will be following the Layout diagrams provided for placement and using this Assembly Manual as a guideline.**

NOTE: A **10x12 with 6' Sidewall building** was used for the pictures shown in this assembly manual.



**2. Floor Construction:** Locate the FLOOR LAYOUT DIAGRAM sheet. Referring to the diagram, find and place runners on a level surface, spacing them as shown on your floor diagram layout. Your layout may look different than the one shown due to the size of your unit.



**3. Locate the rim boards.** Starting with runner on the left hand side. Use 3" nails, and fasten the rim board to the left side of the runner as shown, keeping it flush on the sides and end. Repeat with runner on the right hand side, fasten the rim joist on the right side of the runner.



**4. Following your FLOOR LAYOUT DIAGRAM** for the runner spacing, fasten the other two end joists to the runners, keeping them flush on the ends with the other rim boards and also the runners.



**5. Locate the joists.** Following the markings on the rim boards position the joists in-between the rim boards and fasten each one to the marking of rimboard.



**6. Next square up the floor.** To square the floor, use a tape measure to find the distance from one corner to the other, then measure the diagonal between the remaining 2 corners. If the two measurements are the same, then your floor is already squared. If they aren't, adjust the floor until the measurements are the same.





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**7.** Side Wall Construction: Using the WALL LAYOUT DIAGRAM sheet. Locate the 2x4 studs and the top and bottom plates for the side wall section and lay them out as shown in your diagram.



**8.** For side wall assembly, secure the 2x4 studs to the top and bottom plate using 3" nails. This forms the basic framework of your wall.



**9.** Next locate the 2" x 6" top plate. Place it on top of the 2x4 as shown, keep flush on the bottom side (inside of wall top plate), and flush on the end.



**10.** Fasten with 3" nails.



**11.** Now you are ready to install the Smartside siding. You will notice that there will be a 3" overhang at the bottom.



**12.** Install the first piece of siding, keeping flush at end.



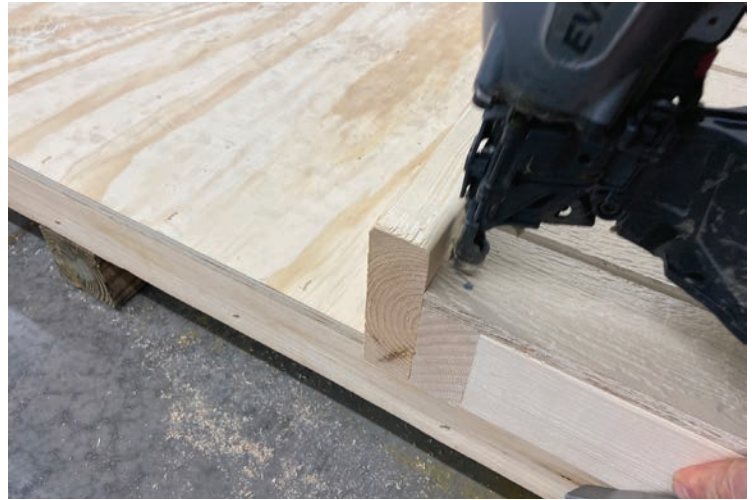


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**13.** Keep siding up against the 2x6 top plate. Fasten along the top first.



**14.** Fasten all the way across, with 2" nails. Make sure that you ALWAYS fasten the top first and keep it flush, and against the 2x6 Top Plate.



**15.** Next, fasten at the Bottom Plate. Make sure it is flush and squared.



**16.** Continue installing the Smartside siding. Nail the paneling to each stud, 8 - 10" apart. Repeat on opposite side. **\*\*TIP:** Use the 4" Grooves as a reference to find the 16" o.c. studs under the paneling.



**17.** Use the WALL LAYOUT DIAGRAM sheet to locate the studs for the front wall with door.



**18.** Fasten all studs together using 3" nails. All studs will be marked for placement. To make a double stud that goes beside the door opening, you will fasten two studs together.





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**19.** Completed Door Framing.



**20.** Attach a temporary support to the lower part of the door gap in the frame. Ensure the gap's width is correct - it's 48" for a 8' wide unit and 60" for 10' and 12" wide units.



**21.** Attach the temporary 20" long 2x4 block to the top plate, measure 5-1/2" from the plate's edge as shown, secure with screws, and do the same on the opposite side.



**22.** Next, Using the WALL LAYOUT DIAGRAM sheet locate the truss pieces for the top of the Door Wall.



**23.** Match up trusses parts to the corresponding letters A, B, and C. These will need to be turned the correct way or they won't fit correctly. Fasten using 3" nails.







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**24.** The truss will set on top of the temporary 2x4 block. Fasten together keeping it flush on the outside edge as shown. Repeat on the other side.



**25.** Locate the (3) "collar tie" pieces for the front gable wall framing and layout according to the WALL LAYOUT DIAGRAM. Note: The 8" siding will splice on the collar tie.



**26.** Center the bottom collar tie, then place the other two collar ties on top so the ends meet at the center of the bottom collar tie. Note: The top two collar ties are on the **outside** of the framing to fasten siding.



**27.** Using WALL LAYOUT DIAGRAM locate the Gable Studs. Fasten using 3" nails between the Collar Tie and Gable Top Plate.



**28.** Framing complete on front end gable door wall.



**29.** Next, following the SMARTSIDE SIDING LAYOUT DIAGRAM, layout the front end wall siding (side with door).





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**30.** Before fastening make sure that the siding extends 3" below the bottom plate and then 3-1/2" out past the side of the bottom and the top plate. When fastening, do the bottom of the wall first. Use 2" nails.



**31.** At the top of the siding measure 3-1/2" out from the end of the 2x4 top plate. Once you have measured everything fasten the siding with 2" nails around the perimeter.



**32.** Following your SMARTSIDE SIDING LAYOUT DIAGRAM place the small pieces of siding at the top of the front end wall. Optional caulking is recommended for the siding splice. Fasten with 2" nails.



**33.** Completed gable end door wall.



**34.** Remove the temporary door brace.



**35.** Remove the temporary 2x4 blocks that are attached on the top plate. Do this on both sides of the wall.





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**36.** Finished Interior Side of Gable Door Wall.



**37.** Next following your WALL LAYOUT DIAGRAM, layout the framing for the back end wall. Fasten together using 3" nails.



**38.** Following the WALL LAYOUT DIAGRAM. Put together the top of the back end wall in the same manner as you did previously for the top front end wall. Follow the truss markings A, B, & C.



**39.** Completed back gable wall framing.



**40.** Following your SMARTSIDE SIDING LAYOUT DIAGRAM place the siding into position using the same measurements as Steps 30 and 31.



**41.** Following your SMARTSIDE SIDING LAYOUT DIAGRAM place the small pieces of siding at the top of the back end wall. Optional caulking is recommended. Fasten paneling with 2" nails.





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**42.** Completed gable back wall - exterior



**43.** Completed gable back wall - interior



**44.** Truss Assembly: Locate all the truss parts.



**45.** You will use the previously assembled gable truss as a template to assemble the trusses.



**45.** Layout OSB gussets, as shown, and secure with 2" nails to start the truss assembly. There are 3 per side.



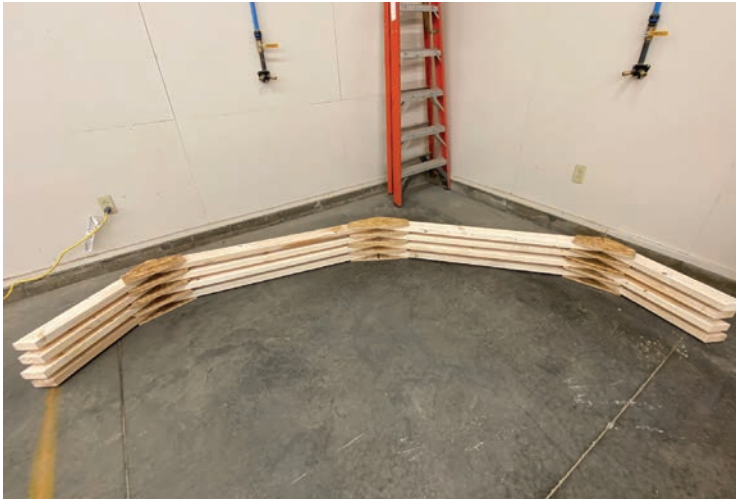
**46.** Once the truss is assembled on one side flip it over in order to attach the OSB gussets on the opposite side, using 2" nails.





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**47.** Continue assembling trusses until all trusses are complete.



**48.** Once the truss assembly is complete make sure to attach the OSB gussets to the truss that is attached to the Gable Back Wall, using 2" nails.



**49.** Completed gable back wall with gussets and additional framing. **MAKE SURE TO REMOVE TEMPORARY 2X4 BLOCKS.**



**50.** Rake Assembly: Next, locate 2 sets of four rake pieces, four short and four long. Match letters to letters so that the rakes are at the correct angles. Set aside for later installation.



**51.** Attach using 3" screws. Once both rakes are completed set aside.



**52.** Next you will be placing the side wall(s). Set a side wall into position, placing it on the very edge of the floor.





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**53.** Keep the wall flush at the end and pushed in with your foot, as shown.



**54.** From the outside, and still applying pressure with foot, fasten the wall to the floor using 2" nails.



**55.** From the inside, fasten the wall to the floor, using 3" nails and spacing them every 16".



**56.** Repeat steps for opposite side.



**57.** Set the back gable wall into place, lifting it so the bottom of the wall plate sits on the interior floor, and between the two side walls.



**58.** Keep the truss flush with the 2x6 top plate. Attach using a 3" nail under the top plate. This will be done on both sides.





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**59.** Then fasten the edges on both sides of the wall using 2" nails, spacing them every 8 inches.



**60.** Next, set the front gable door wall into place.



**61.** Measure the width of the door opening, making sure you have 48" for 8' wide units, or 60" for 10' and 12' wide units.



**62.** Fasten to the floor and sides in the same manner as the back gable wall.



**63.** Next, locate the 4 rake blocks. Position one into place, making sure its flush with the 2x6 top plate on both the outside edge and underneath, as shown. Attach from the side using a 3" nail, as shown. Repeat on the other three corners in the same manner with remaining rake blocks.





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**64.** Using 2" nails, install the top door stop first, then install the sides, keeping them all flush with the top of the 2x4s. (not the siding)



**65.** Next is truss placement. Locate the trusses and place them inside the building.



**66.** Place the first truss into place using the pre-marked locations on the top plate.



**67.** Keeping it flush on the outside of the top plate, fasten with 3" nails where marked. Put a nail on each side and on the front.



**68.** Install the remaining trusses, using the marked locations on the top plate. 24" on center is critical for your roof sheeting placement that will come later.



**69.** Collar Tie: This step is for 14' or longer units only. Locate remaining Collar Ties for your building. 14' thru 20' long units get (1) set of 3, and are placed on the top plate and centered. Units 24' long get (2) set of 3. Placed 8' apart. Use 3" nails to fasten.





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**70.** Roof Construction: Locate OSB roof sheathing. Following the ROOF LAYOUT DIAGRAM for placement, place roof sheathing onto trusses, beginning with top section. At the end walls use a tape measure and adjust the OSB to allow a 6" overhang and fasten using 2" nails. To fasten the roof sheathing to the trusses, measure 24" on center and attach with 2" nails. Continue with the remaining pieces until the roof is completed.



**71.** Completed roofing - interior view.



**72.** Raise the rake and set in place underneath the OSB sheathing and abutted against the rake block and flush on the outside edge of the roof sheathing.



**73.** Use a speed square, square the rake with the rake block, keeping it flush on the bottom, as shown. Attach with (2) 2 1/2" screws.



**74.** Attach the roof sheathing to the rakes. Repeat these steps on both gable ends.





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**75. Attaching Corner Trim:** Locate the eight corner trim pieces. Keeping them flush, fasten two pieces of trim to each corner, one on each side. Do this for all four corners of the building.



**76. Attaching Door Trim:** Locate the 3 door trim pieces. Make sure the side trim is flush with the Paneling at the top of the Door Opening. Attach using 2" nails.



**77. Installing Door Stops & Barrel Bolt Block:** Locate the 3 pieces of door stop and one barrel bolt block. First install the door stops, keeping them all flush with the 2x4's (not the siding). Install the door stop to the top of the door first, then install the side door stops, one on each side of the door. Using 2" nails to fasten them.



**78. Once the door stop is all installed, measure to the center of the top door stop and make a mark. Position the barrel bolt block in place, keeping it centered on your mark, and fasten with 2 nails.**





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**79.** Door Construction: Locate doors. Place door into position leaving a 1/8" , the width of your speed square, between the door and the top trim. Keeping the door flush against the trim on the hinge side.



**80.** Fasten using (2) 2 1/2" black hinges, per hinge, then fill in the remaining screw holes with 1 1/4" screws. Making sure the doors align in the center and on top, repeat installation on the opposite side in the same manner.



**81.** Align gable vents over the cutout vent holes and secure. Repeat on opposite end.



**82.** Barrel Bolt Installation: From the inside, using 1 1/4" screws install the barrel bolt on the top left of the right hand side door, turning it so the barrel is facing upwards.



**83.** Then, using 1 1/4" screws install the barrel bolt on the bottom left of the right hand side door, turning it so the barrel is facing down.



**84.** Keeping the door shut, tap the barrel bolt down against the floor so it makes a mark. Using a 5/16" drill bit, drill a hole into the mark. Slide the barrel into the hole to lock it.





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**85.** Use the same method for the top of the door and into the barrel bolt block.



**86.** Door Handle Installation: Insert door handle, centered, in the pre-drilled hole.



**87.** Secure T-Handle with 1 1/4" black headed screws.



**88.** Install D-Handle on the inside of the door as shown.



**89.** Use a Allen Wrench to secure D-Handle as shown.



**90.** Attaching Drip Edge: Next you will be installing the drip edge. Drip edge is not included in kit, see Packing List for the amount needed to purchase.





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**91.** Fasten the drip edge around the perimeter of the roof. Using 3/4" nails, space them every 12" along the entire edge of the building.



**92.** Continue along the front.



**93.** Make sure to make a "notch" at each hip point on the face of the drip edge. This helps with the bending of the drip edge at these points.



**94.** Completed Drip Edge. Make sure to attach all the way around the unit.



**95.** Shingle Installation: Shingles are not included in kit, see Packing List for the amount needed to purchase. Begin by chalking a line on both sides of the roof and aligning the starter shingles on each side.



**96.** Finish installing the first row along the chalk line. Do this for both sides of the roof.





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**97.** Then continue to install the remaining shingles in a staggered fashion.



**98.** Once all the shingles are installed on both sides of the roof you will install the ridge cap. Cut the first ridge cap as shown and place the cap on the peak of the building.



**99.** Finish installing the remaining ridge caps so they overlap, then install the final end cap as shown.



**100.** Now that construction is complete, your primed building is ready for paint. Refer to the Kit Packing List for the required paint quantities to purchase. *Thank you for purchasing from Little Cottage Co.*