







Help Text-line: 512-596-5200 EMAIL: support@roostandroot.com

VOICE: 877-741-COOP Assembly Support ext 3





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Heritage Series Chicken Coops™

Assembly Instructions for Model 12



Take Note...

- Your new coop won't gain full strength until completed. It must be protected from high winds until completed and properly anchored.
- Having a very level very flat area is required for the coop to assemble properly. It's impossible to overstate how much easier and better assembly will go with things square and level. A properly prepared concrete footer is preferred.
- We estimate about 30 man hours to fully assemble the model 12 Heritage Coop. Two people are required for the build in many of the steps.
- You will need a chuck type drill (preferably cordless, preferably two) and a hammer and a tape measure. Everything else is provided.
- We think we put extra screws and other fasteners in the kit. If you run out, one of us goofed up :-)
- Using the instructions is part reading, part illustrations, part photos and part watching videos. Please know that we value your input to an ongoing process. We try hard but writing good instructions on complex objects for a variety of learning styles is an imperfect science. We're genuinely sorry for any confusion our instructions cause.
- We indicate in the instructions where all screws go. All of the screws in the kit are aggressive enough to self drive. If concerned, we also include a pilot bit. Position, count and direction of screws are indicated by various colored arrows.
- When we build your coop the cedar wood has about 12% moisture. If you wait a long time to assemble your coop it may dry out and shrink by up to 1/8". When it get rained on, it will swell back. Human error, machine error and believe it or not computer error can cause parts to be off by as much as 1/8th inch. Most of the design can tolerate small errors. Where it cannot we give you a measurement that must be adhered to. Like doors, for instance.
- Panels are not marked and we omit a section in the instructions for parts ID to save complexity. All wire sides face inward and the 3D renderings will allow you to identify panels as you go. Spacing them out for easy ID is advised.



We include a gallon of Eco Sealer and a sprayer to treat the bottom rails of ground contact panels if you desire. Even panels that sit on concrete footer will benefit. Cedar is proven to last 10+ years outdoors even when in ground contact. Sealing bottom rails will extend this time. This product allows re-sealing and even color staining after application. In our opinion it is a premium grade product. We do not recommend painting cedar but you can. Whatever you decide to do, a product that allows the wood to breathe is best. Keep toxicity in mind too. With modest care, we would expect your coop to last 20+ years.



Best practice would be to pour a concrete footer. Guidance is found in the following pages. You can most certainly build this coop directly on the ground. In either case, great care must be taken to make the surface both level and square. A concrete footer will simplify proper anchoring which is **required** to prevent high wind damage both during and after construction.

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Page	_	Heritage Model 12 Chicken Coop™ V1.0 Spring 2024 copyright ® Roost & Root I All rights reserved.	Find your inner farmer.

It will be pretty much impossible for you or your contractor to assemble your new coop without...

(1) pre-reading these instructions to create familiarity,

(2) watching our assembly overview video, and...

(3) following instructions on each page. Concepts on one page are built upon in the next pages and we often don't repeat in hopes of saving complexity. Any time taken up front going through everything will save you many hours (and grief) in the end.

Provided Supplies Listing

Model 12 Supply List

- (5) Standard **OR** Freeze Guard Drinkers
- Eco Sealer 1Gal (1)
- (1) Eco Sealer Sprayer
- Small Bottle of Gorilla Glue (1)
- Ratchet Strap (1)
- 4' Level (1)
- Automatic Door Kit (2 doors) (1)
- Roll of String (1)
- Countersink Bit (1)
- 5/32 Drill Bit (1)
- 5lb Boxes 3" T-25 Screws
- 1lb Box T-20 1 1/4" Screws (1)
- (1) 1lb Box T-20 1 5/8" Screws
- 4 1/2" T25 GRK Screws (8)
- 400 count 1¹/₂ #9 Roof Screws (1)
- 3/4" Bolt Nut 2 Washer Sets (4)
- (3) Bolt Style Gate Latches & Hardware
- (16) Stainless Steel Hinge Screws
- (1) 3" Hook & Eye Door Catch
- (5) Gravity Gate Latches & Screw Sets
- D-Ring Anchors & Bolt Sets (8)
- (1) Small SOCKiT Box & Screws
- (8) Spring Snap "Clips"
- (2) Bit Holders
- (2) T25 Bits
- T20 Bit (1)
- (1) Phillips Bit

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V1.0

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Parts Listing

"A" Run

- A1 36" Wired Side Panels x3
- A2 Left Front Panel
- A3 Right Front Panel
- A4 Door

"B" Roost

- B1 36" Roost Side Panels x2
- B2 L&R Roost Back Panels
- B3 Back Middle Roost Panel
- B4 Roost Entry Door
- **B5** Roost Side Door Panel
- B6 Roost Bunks x2
- B8 Roost Ramp

"C" Egg Box

- C1 36" Egg Box Panels x2
- C2 Egg Box Assemblies x2
- C3 Egg Box Roof Panels x4

"D" Roof

- D1 Left Front Gable
- D2 Right Front Gable
- D3 Left Back Gable
- D4 Right Back Gable
- D5 Left Mid Gable
- D6 Right Mid Gable
- D7 Left Notched Rafter Assembly x1
- D8 Right Notched Rafter Assembly x1
- D9 Left No Notch Rafter Assembly x1
- D10Right No Notch Rafter Assembly x1
- D11Collar Tie x2

D15Left Front Upper Purlin Panel D16 Right Front Upper Purlin Panel D17Left Back Upper Purlin Panel D18 Right Back Upper Purlin Panel

D20Left Front Lower Purlin Panel D21 Right Front Lower Purlin Panel D22Left Back Lower Purlin Panel D23 Right Back Lower Purlin Panel

D30Left Front Transom Panel D31Right Front Transom Panel

D33Left Back Transom Panel D34Right Back Transom Panel

D40Upper Roof Panels 32" x16 D41Lower Roof Panels 40" x16 D42Ridge Cap x4

"E" Trim

- E1 Upper 2x4 Wall Stiffener Set x3
- E3 Optional Name Board
- E4 Bird Stop Trim Package x8

"F" Storage Room

- F1 Exterior Door Panel
- F3 Ceiling Panel
- Roost Wall Panel F4
- Run Wall Panel F5
- F6 Interior Door Panel

"G" Misc

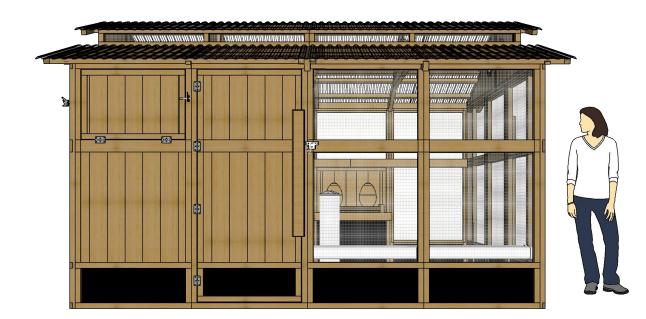
- G1 EZ Fill Feeder² x4
- G1A Feeder Bracket x1
- G2 Easy Fill Waterer Parts Set
- G3 Water Door Slide Set
- G4 Egg Box Liners x4

Parts that are obvious to identify in illustrations are not labeled. Parts that could be confusing are both labeled and dimensions are provided for proper ID.



Front

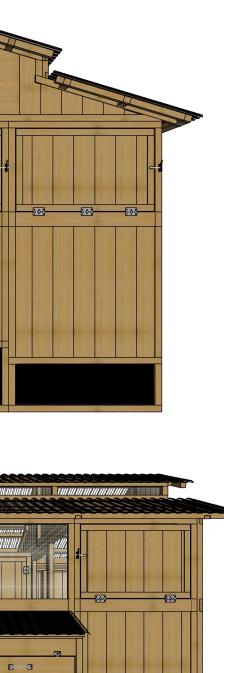






Left

Back

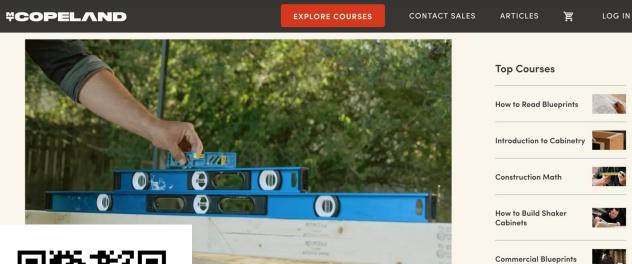




Right

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https://mtcopeland.com/blog/plumb-level-square-and-true-what-they-mean-and-how-to-measure/

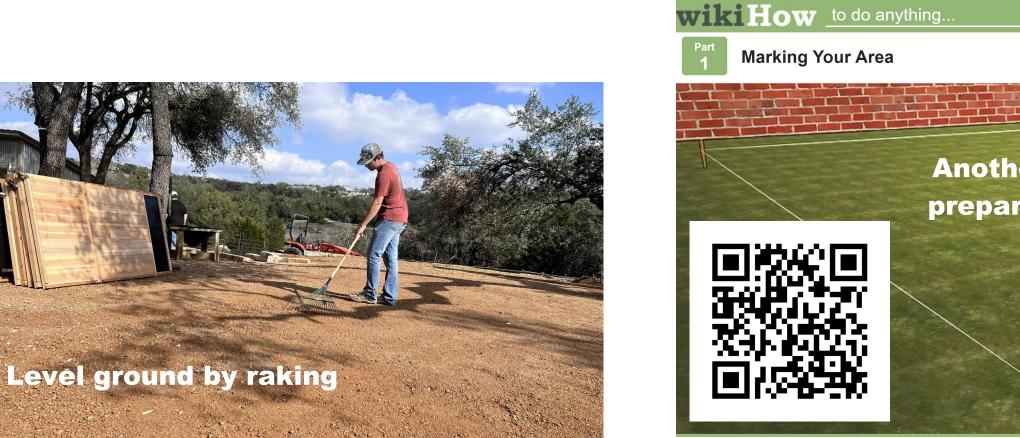


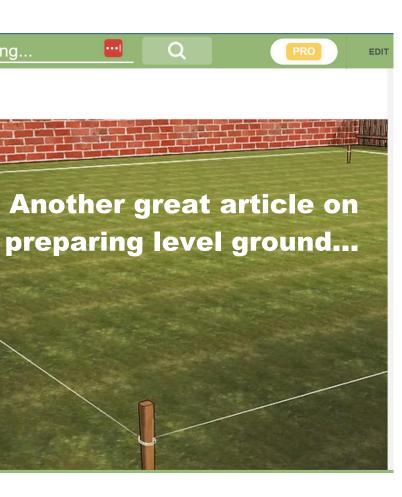




Good resource for squaring and leveling...

https://www.wikihow.com/Level-Ground



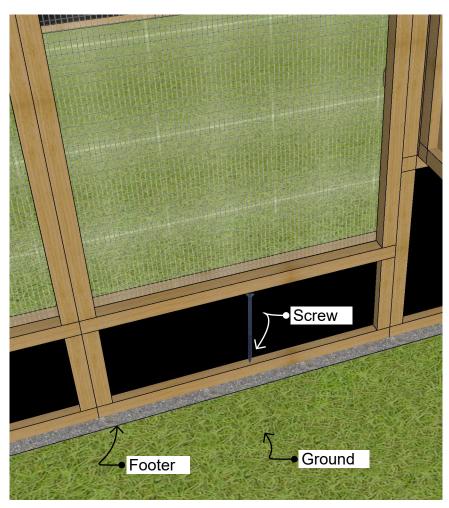




YOU MUST ANCHOR YOUR COOP: 3 Possible ways to anchor your coop... there are more, here are three.

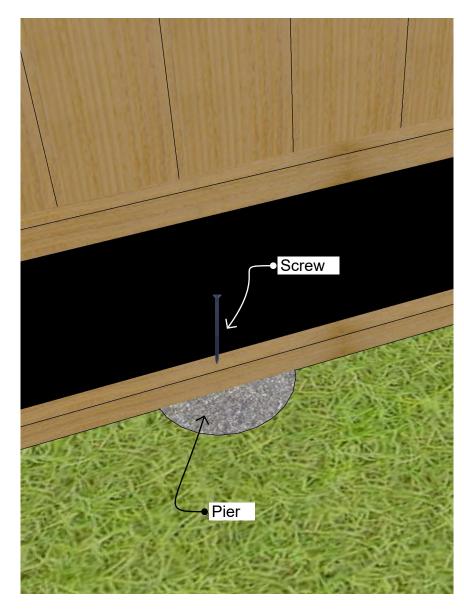
Screw in one or two Tapcon screws into the bottom rails of panels and into your concrete footer. This is done after you're absolutely sure walls are set and won't be moved. A percussion style drill is best. Let your footer dry for at least 2-3 weeks or you'll risk fracturing. Center screw in bottom rail.



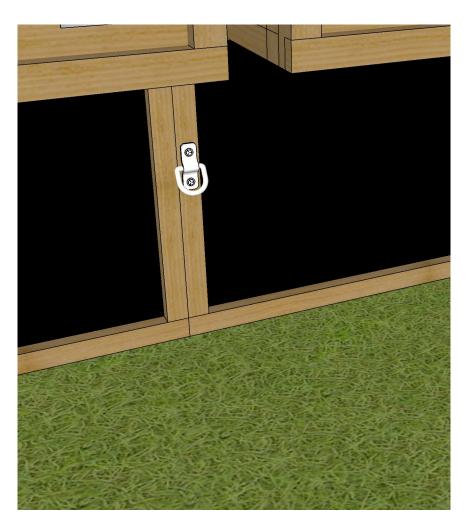


1. Concrete Screws To Concrete Footer

Instead of pouring a complete perimeter footer, concrete "piers" can be poured every 3 to 6 feet and near corners. The same 3/16 3-1/4 Tapcon screw can be used to screw down rails into piers. If you have bedrock near the surface, pour piers where they can reach into the bedrock. You can also drive 3/8 rebar down into the pier hole and leave rebar below grade but into pier hole... so that when concrete is poured the rebar "connects" the pier into the bedrock. Same wait time applies as to footer.



There's nothing wrong with building your coop directly on the ground and securing with the included D-Ring Anchoring Kit. D-Rings are comprised of the ring, the holder, 2 bolts and 2 t-nuts each. They are placed along the sides and near the corners. Different styles of anchors are then used to "anchor" to the ground. Our video we use for our greenhouse anchoring is a good primer. You will need to choose and purchase the proper types of anchors and tie devices for your area and your preference.



2. Concrete Screws To Concrete Pier

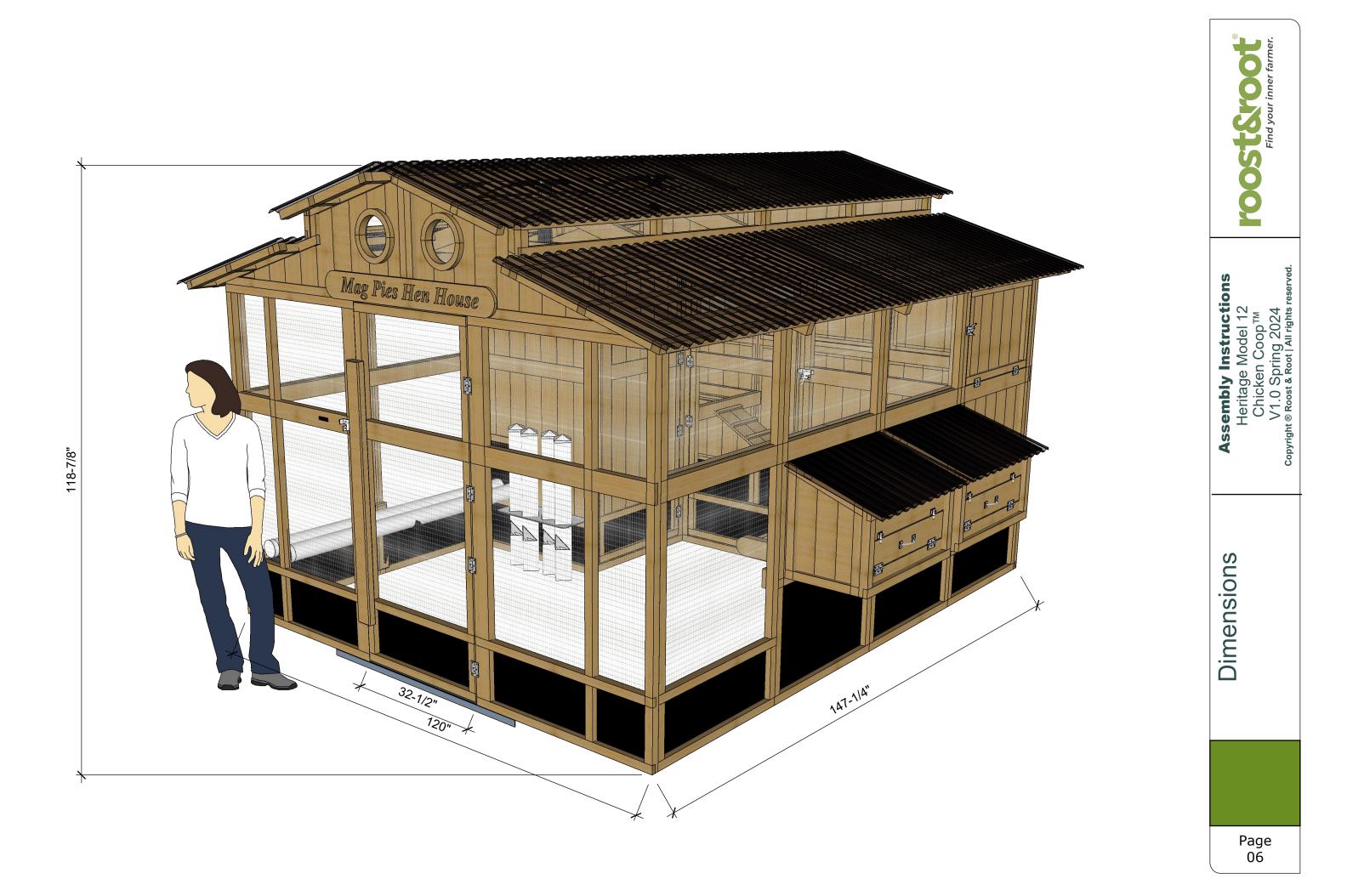


Be careful. Coop must be anchored to avoid damage from excessive winds during and after construction. We do not know your ground conditions or your locale and whether you live in an area subject to excessive winds. Please seek local guidance if you are unsure. Coop is heavy and very wind resistant. But for extreme conditions anchoring is necessary. Many of our products have survived hurricane force winds. Panel or roof strength isn't the main worry... securing prevents the coop from "toppling" or walls moving in high winds.

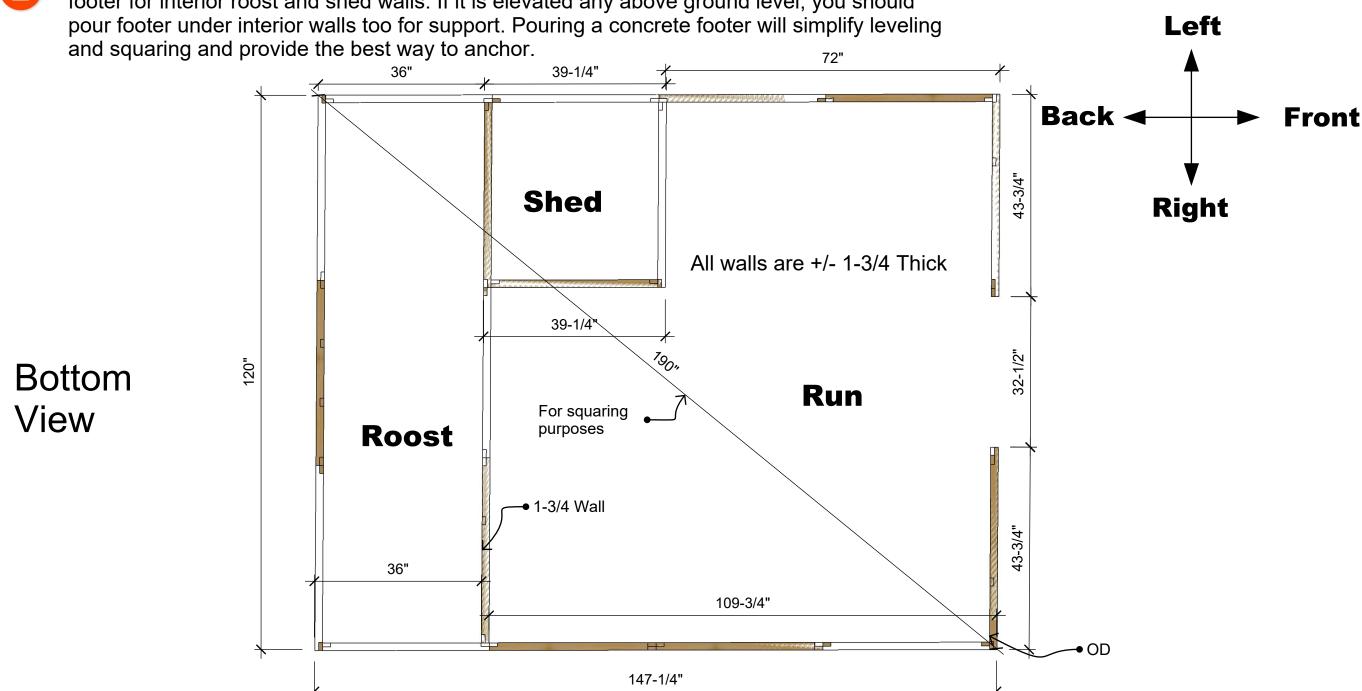


3. D-Rings & Stakes





Note: If a concrete footer is poured and it is flush with ground level, you can omit pouring footer for interior roost and shed walls. If it is elevated any above ground level, you should

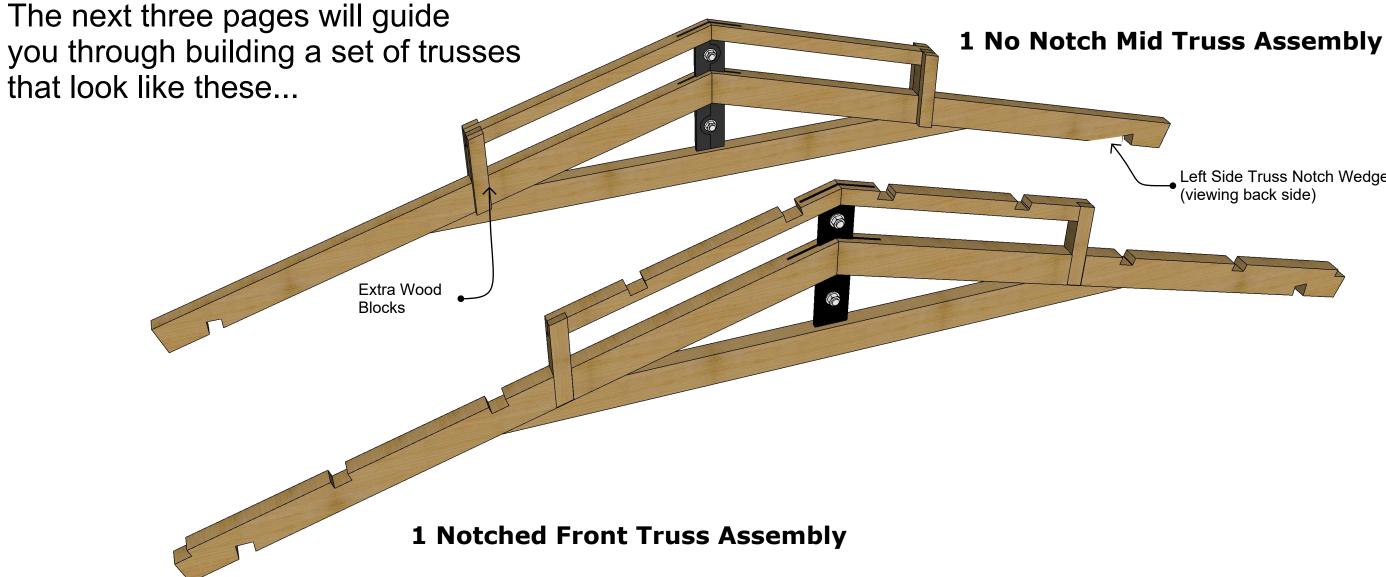


* Measurements can vary by up to 1/8" and rough cedar and shop variations can add up to an inch over long distances. A 6" wide or greater footer with walls centered will provide margin for error. If your footer is on slope, backfill inside of coop to the level of the footer with sandy loam dirt. Footer depth is a matter of preference and ground conditions. Set footer into rocky soil or at least 12" deep for anchoring purposes. Use of 1 or 2 Tapcon 3/16 (3-1/4") concrete screws in the bottom rail of each wall panel will provide good anchoring from wind. Make sure coop is level and square before anchoring.



Be careful. Coop must be anchored to avoid damage from excessive winds during and after construction. We do not know your ground conditions or your locale and whether you live in an area subject to excessive winds. Please seek local guidance if you are unsure. Coop is heavy and very wind resistant. But for extreme conditions anchoring is necessary. Many of our products have survived hurricane force winds. Panel or roof strength isn't the main worry... securing prevents the coop from "toppling" or walls moving in high winds.





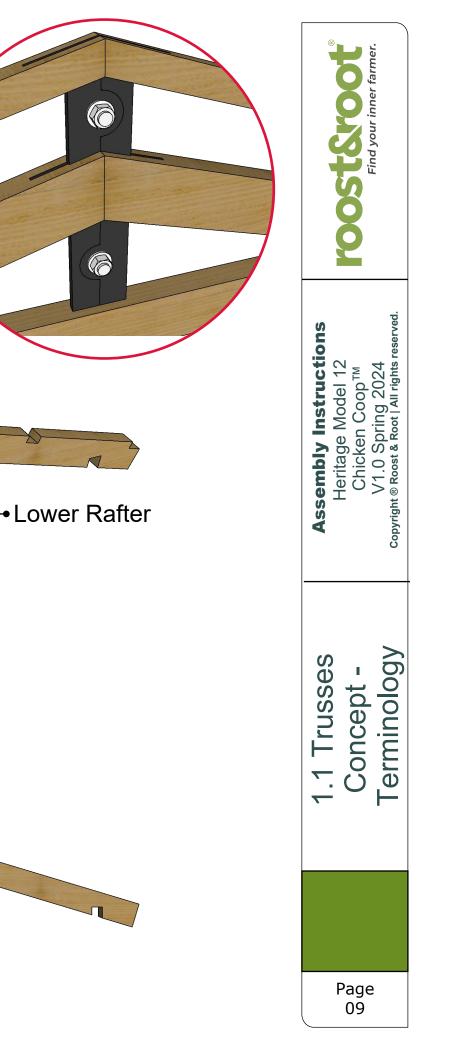
These two trusses are what you are going to build.

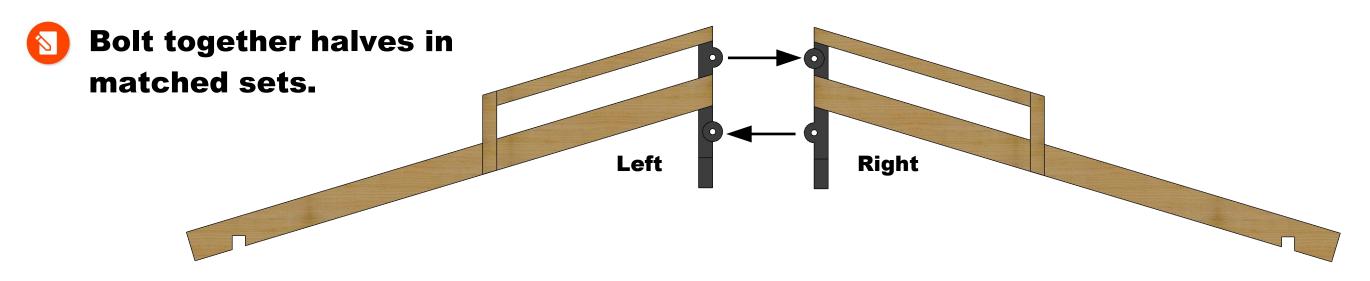


Left Side Truss Notch Wedged

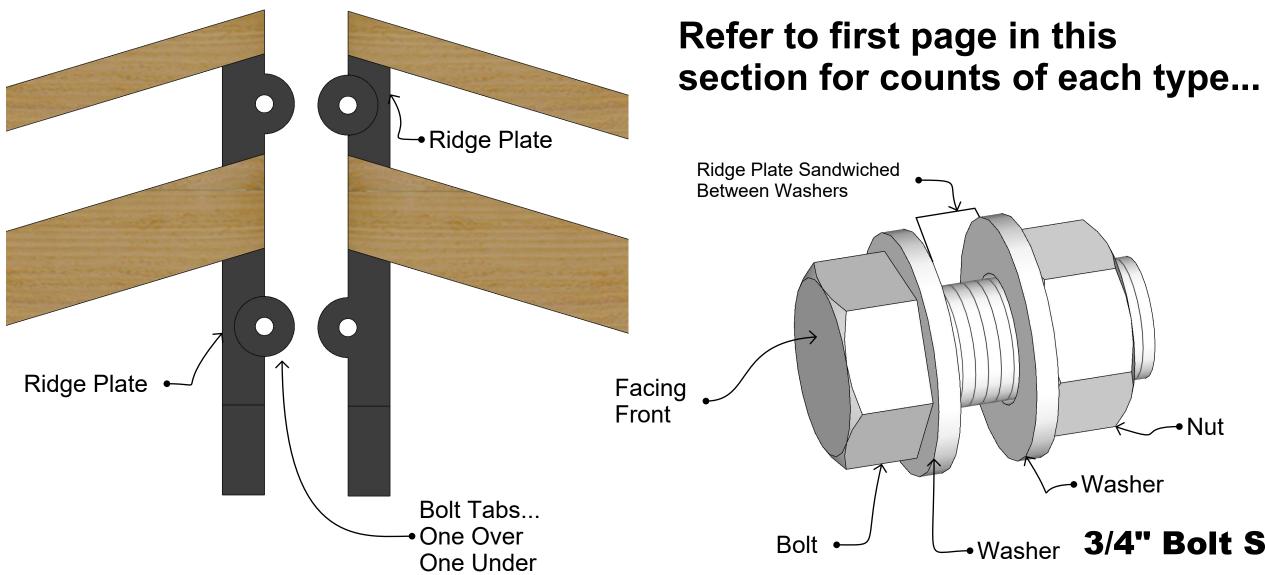


Familiarize yourself with these illustrations and terminology. **Looking At Back Side** - Nuts On Back Side Upper Rafter **Some Trusses Have** P **No Notches** No Purlin Notches **Some Trusses** B **Have Notches** •Collar Tie Purlin → Ridge Plate Notches Seams Are On Back Side **Opposing Overlapping** Bolt Tabs Wall Notch They're too big to ship assembled so we engineered pre-assembled halves that you bolt together using giant 3/4" bolts that are both strong and beautiful. When they're halves, they're called "rafter" halves. Once assembled, we call them "trusses".



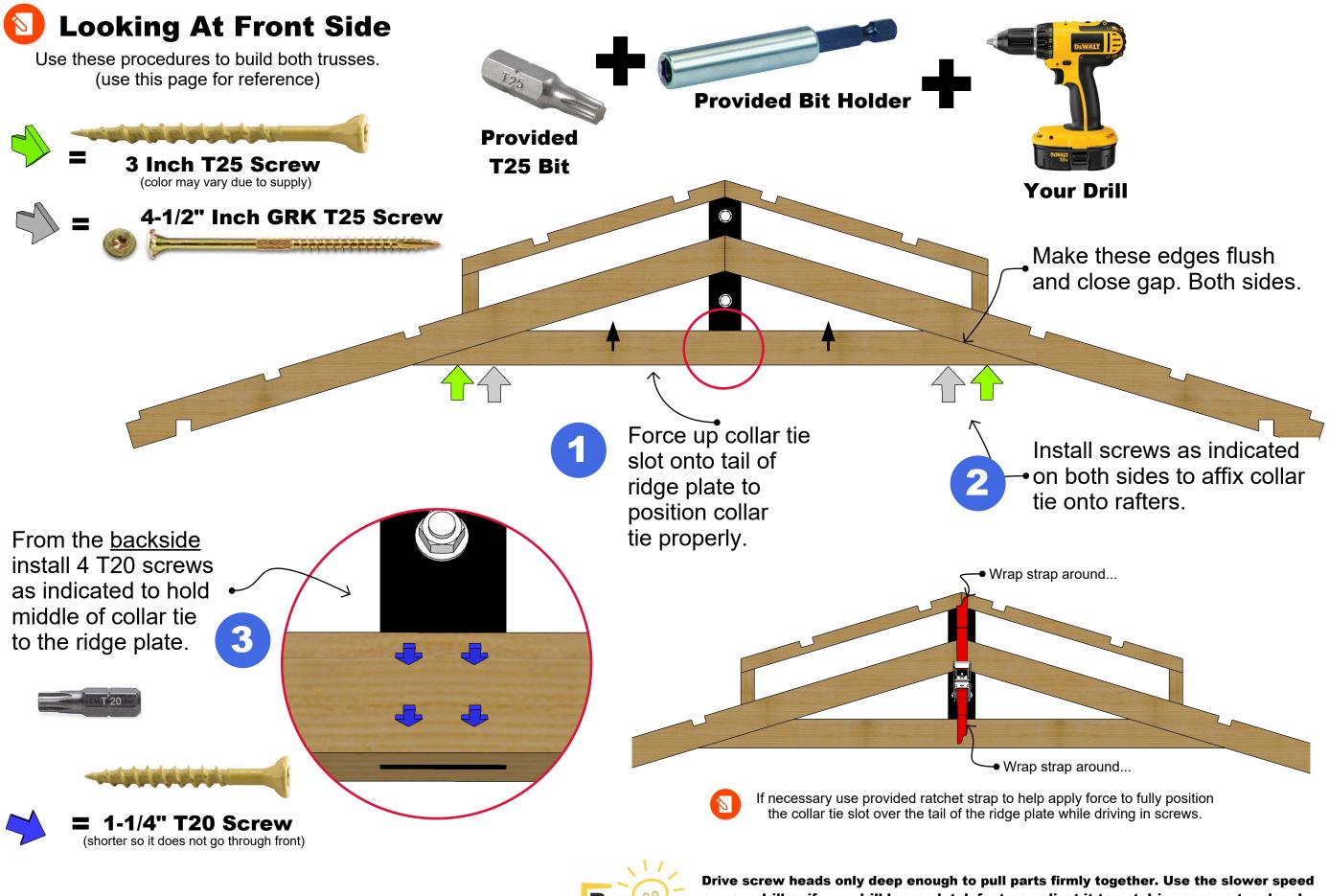


Select a left and a right half of either a notched or not notched truss half and slide the ridge plate halves together so that the bolt holes line up. Insert the bolt with a washer on it through both bolt tabs from the front side, insert another washer on the back side, and hand tighten a nut onto the bolt to hold the assembly together. Flex the ridge plate halves a little if needed to make sure bolt hand tightens down on halves. Repeat for all truss halves until all the trusses in your kit are assembled.



3/4" Bolt Set

	1.2 Trusses	Assembly Instructions	
Page 10	Concept - Assemble	Heritage Model 1∠ Chicken Coop™	roostaroot
2	Halves	V1.0 Spring 2024 copyright ® Roost & Root All rights reserved.	Find your inner tarmer.

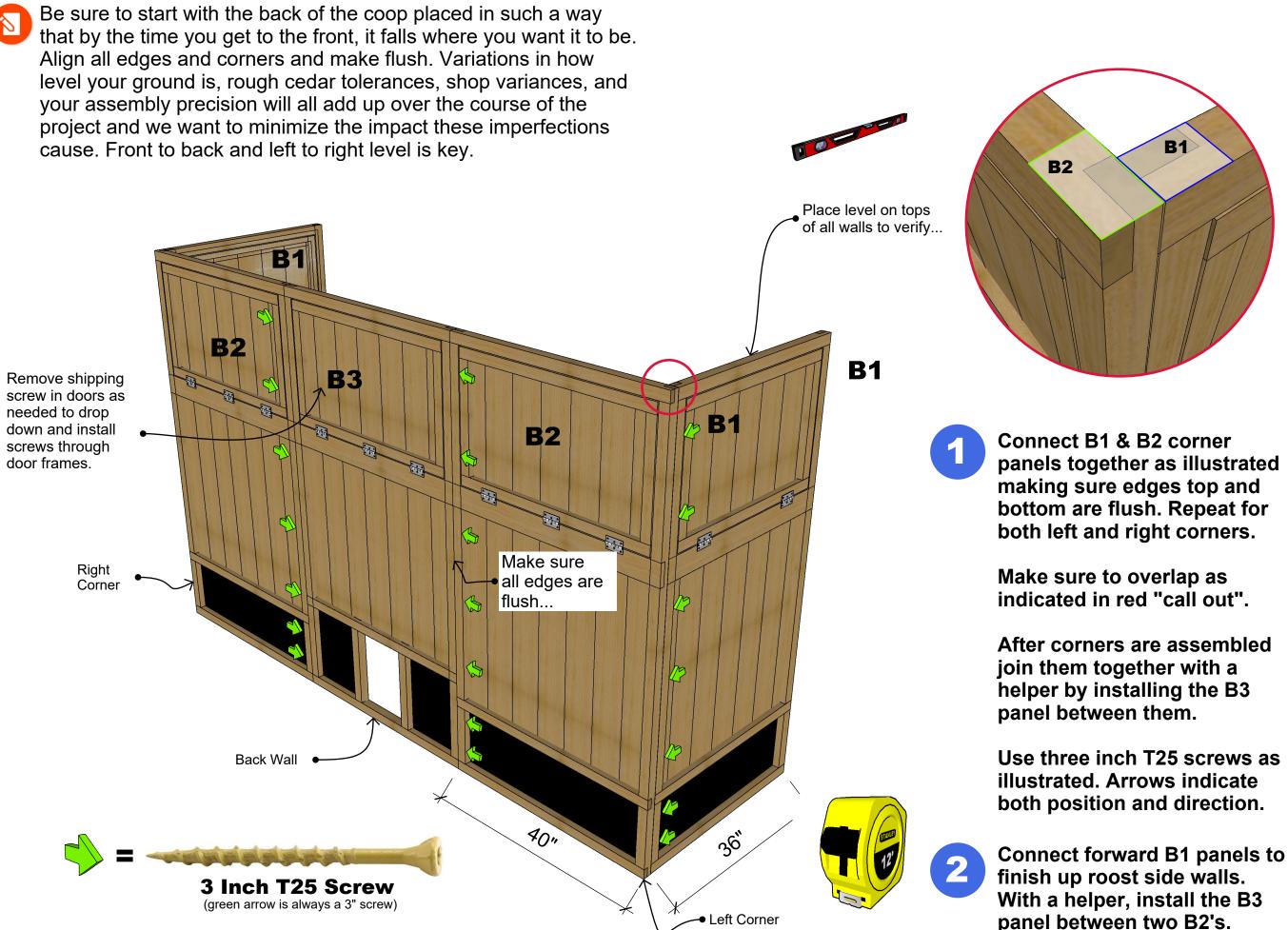


Collar Ties Model 20 (5) Model 30 (8) Model 40 (11)

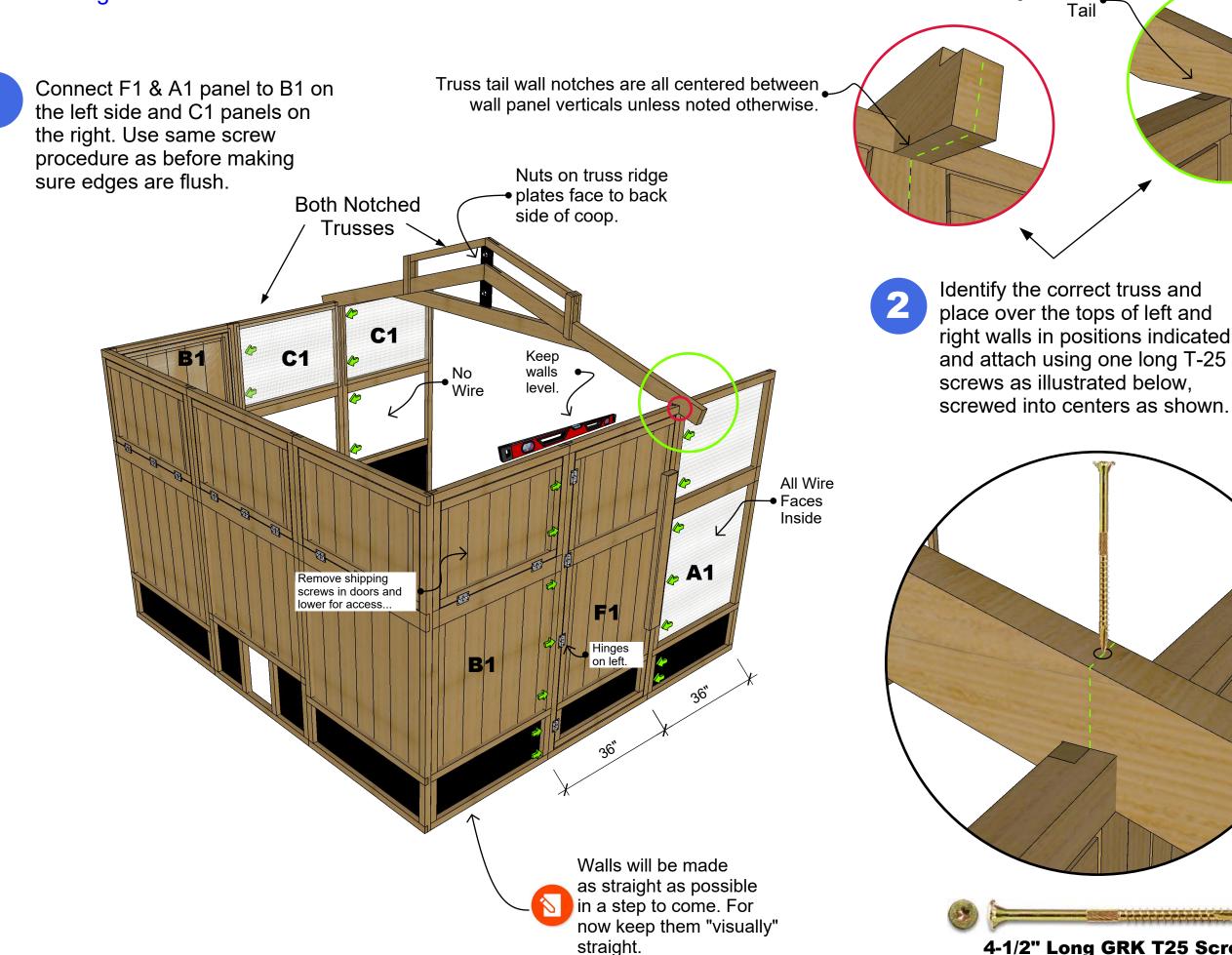


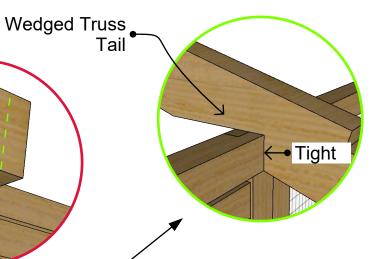
on your drill or if your drill has a clutch feature, adjust it to not drive screws too deeply. We try to "hide" heads of screws from facing up whenever possible so that the heads of the screws don't hold water. Driven too deeply, the divot they make can hold moisture.

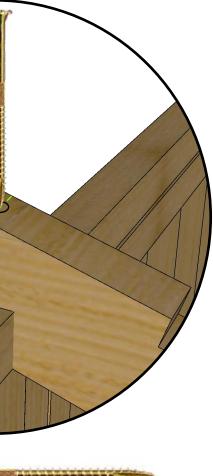














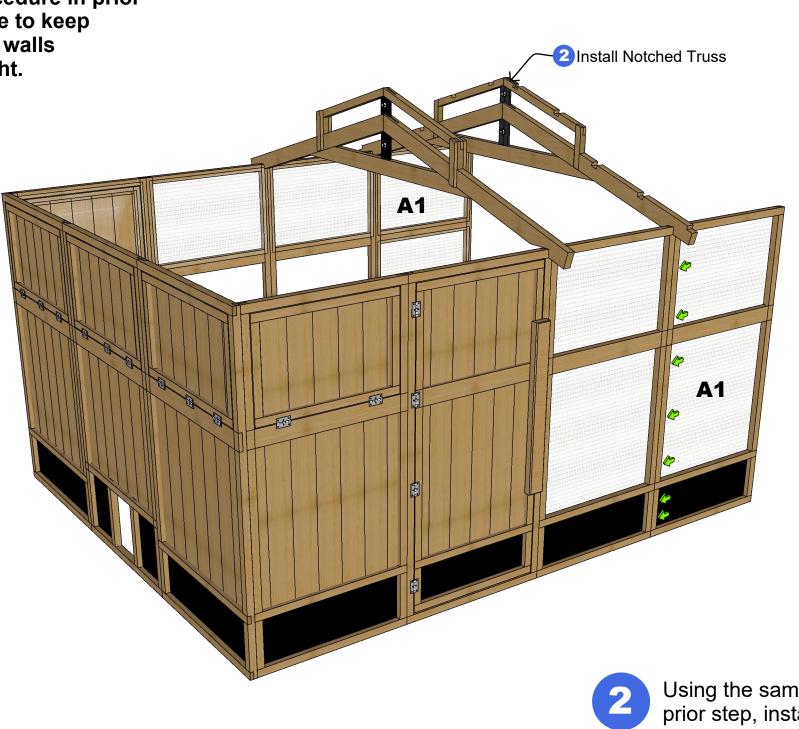
4-1/2" Long GRK T25 Screw



Build out the remainder of the side walls.



Extend out remaining A1 panels using the same screw pattern and procedure in prior steps taking care to keep edges flush and walls "visually" straight.



Using the same methods used in prior step, install the notched truss in the position as indicated.

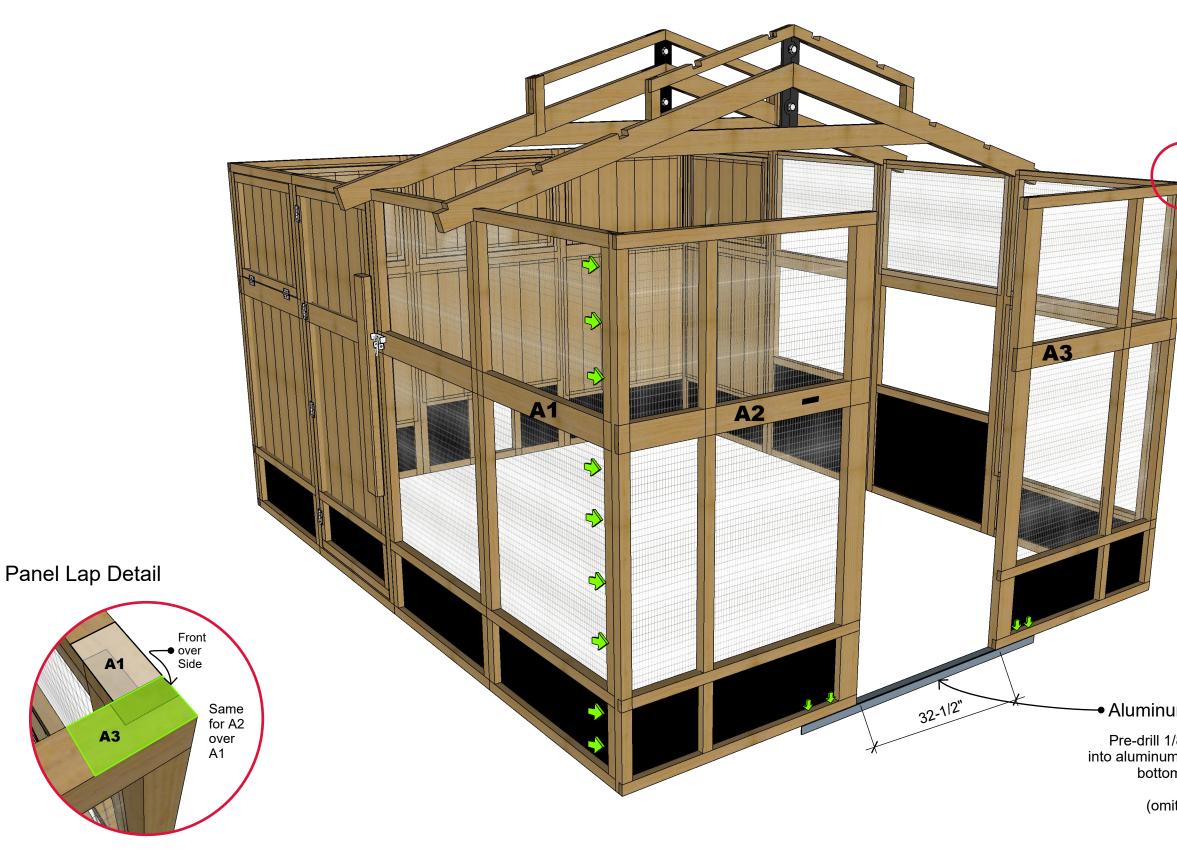




Screw the A2 and A3 panels onto fronts of the A1 panels screwing through the A1 panels back into the A2 and A3 panels as indicated by the green arrows using 3" T25 screws.



If you're building your coop directly onto the ground an optional Aluminum Door Spreader can be installed to maintain the 32-1/2" gap in the door bottom. Omit if you are using a concrete footer.



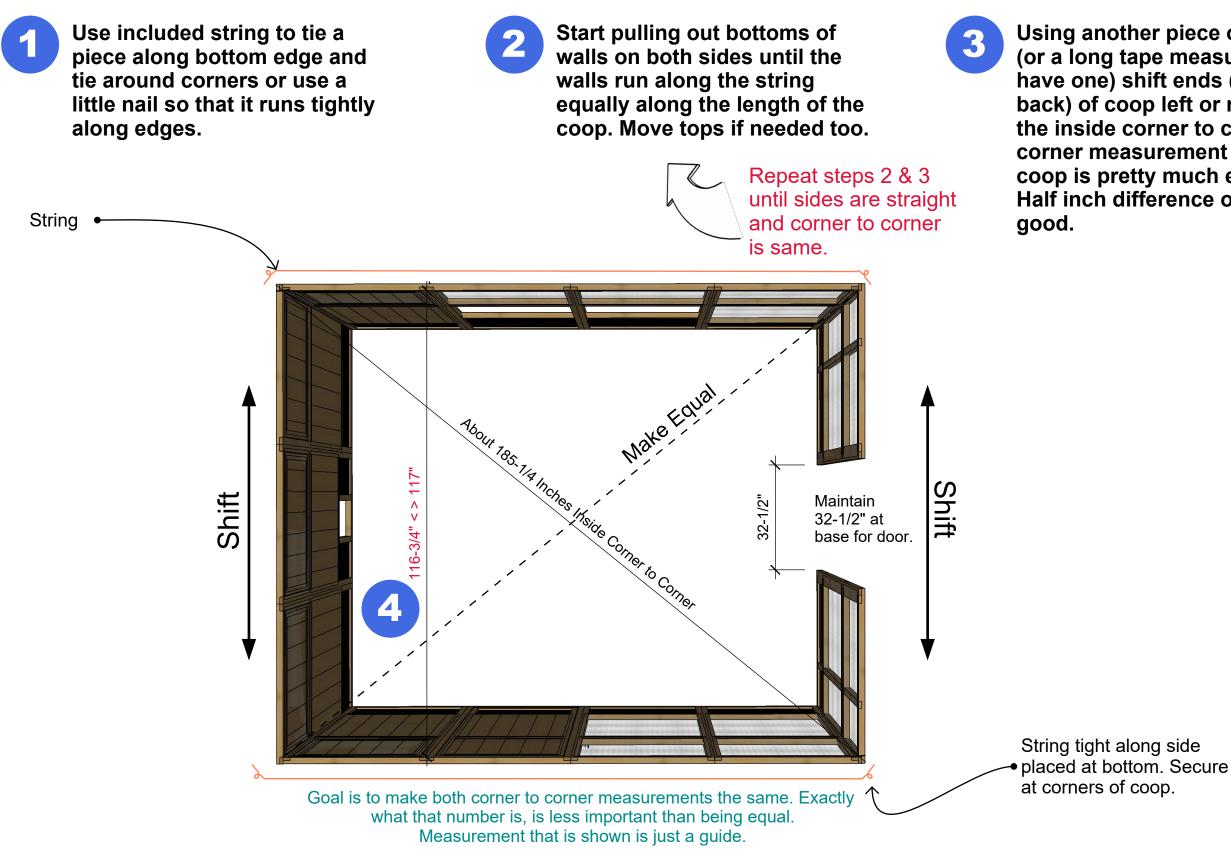
• Aluminum Door Spreader

Pre-drill 1/8" holes through bottom rail into aluminum before driving screws through bottom rail into aluminum bar.

(omit if on concrete footer)



Straightening and squaring the coop is a 3 part repetitive procedure...



- 1. Trusses omitted for illustration purposes.
- 2. Even if you poured a concrete footer, verify using this step.
- 3. Any "waves" in the wall are taken out by stiffeners in next steps.
- 4. Try to make it to where it feels structure is straight and relaxed. Not under tension.



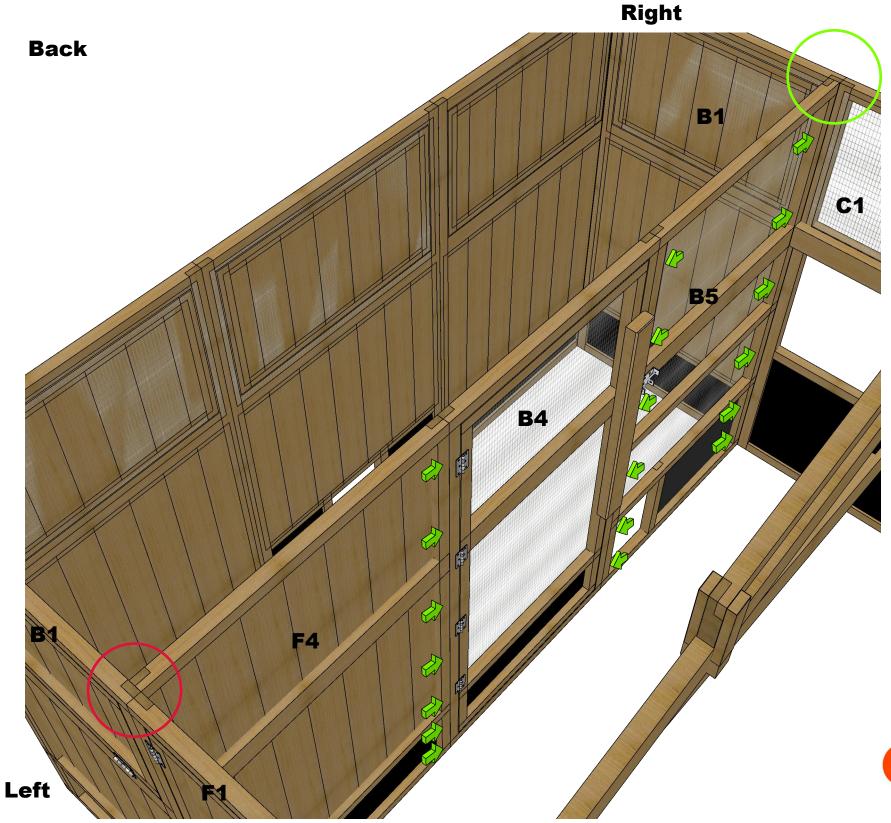
Using whatever anchoring method you choose (see anchoring page) put in at least enough of your anchors in the bottom rails to keep from shifting during the balance of construction. Take note at position (4) in the diagram to not let distance between base of walls be less than 116-3/4" or greater than 117".

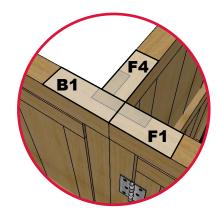
Using another piece of string (or a long tape measure if you have one) shift ends (front and back) of coop left or right until the inside corner to corner to corner measurement of the coop is pretty much equal. Half inch difference or less is



In this step we'll start adding some stability to the structure.

Screw B5 panel into vertical side rail of right B1 panel as illustrated. See blow up diagrams for placement. Make sure top edges are flush. Next screw the F4 panel into vertical side rail of left B1 panel making sure top edges are flush. Use a similar screw pattern as indicated on B5 panel.





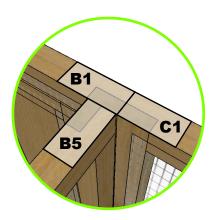
2 Ir a

Insert the B4 panel between the B5 and F4 panels. Spread B5 and F4 if needed to squeeze the B4 panel in.

At this point, do not remove shipping screw(s) from door.

Screw from B5 and F4 into B4 as indicated pulling panels together to close any gaps as needed.





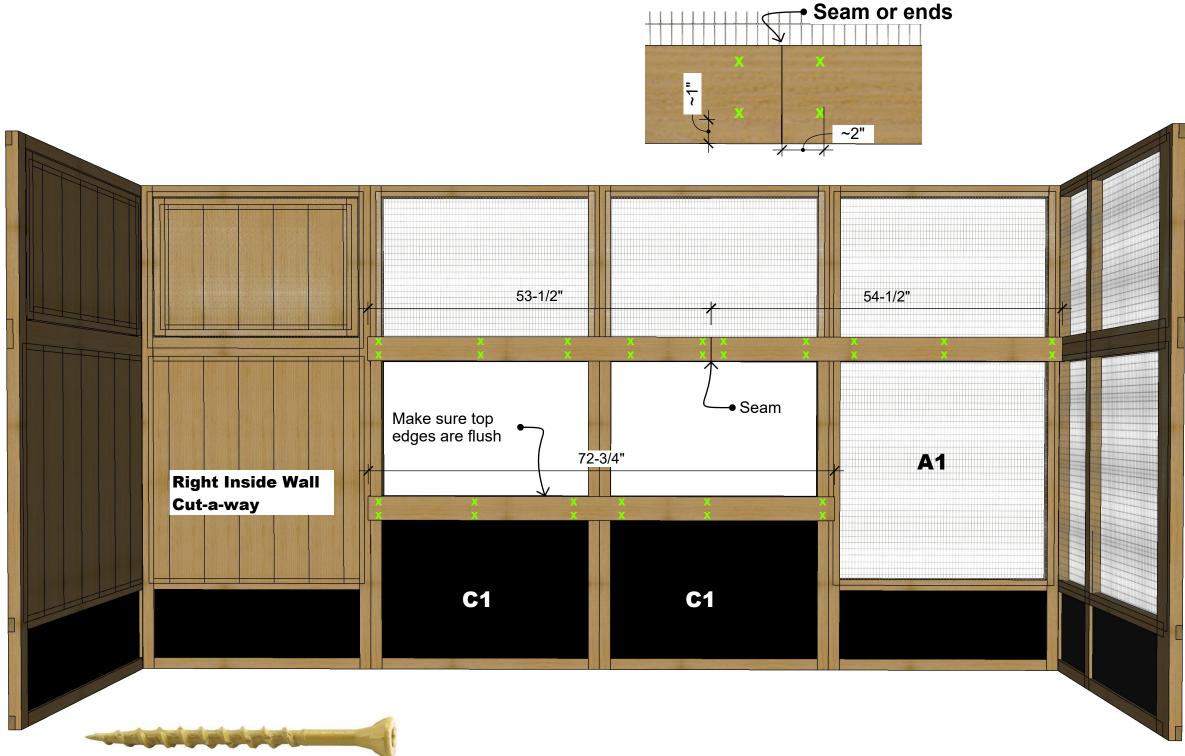


In this step we'll stiffen up the right run inside walls so that they are straighter and stronger.

1

Using T25 3" screws identify the proper length 2x4 stiffener boards and place the three of them as indicated in the diagram. Green X's are used instead of arrows in previous steps and shows pattern to use.

2x4 Screw Pattern



3 Inch T25 Screw

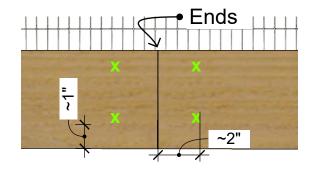


In this step we'll stiffen up the left run inside walls so that they are straighter and stronger.



Using the same teachings and procedures from step 2.1 place the 2x4 left inside wall stiffener as illustrated.

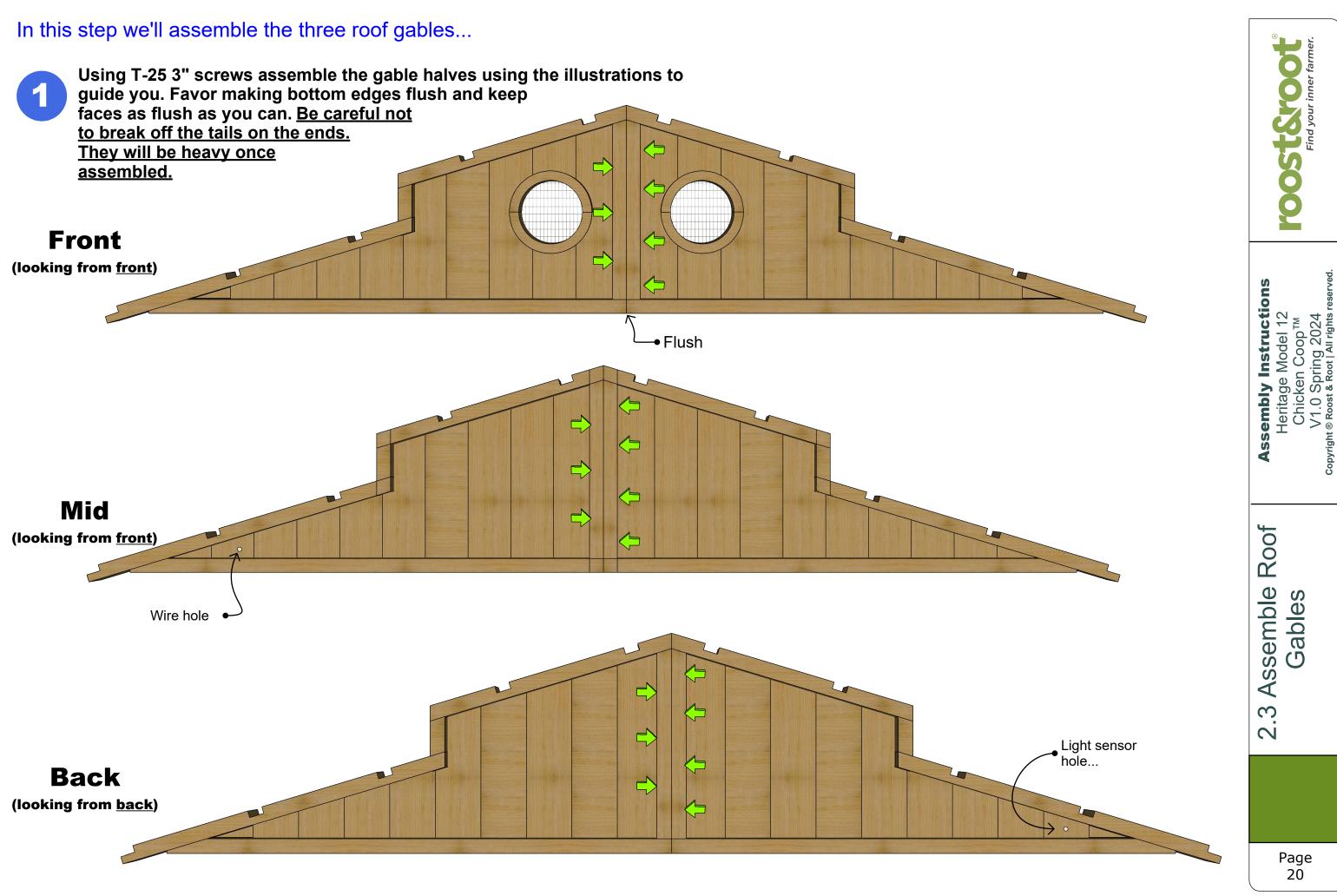
2x4 Screw Pattern

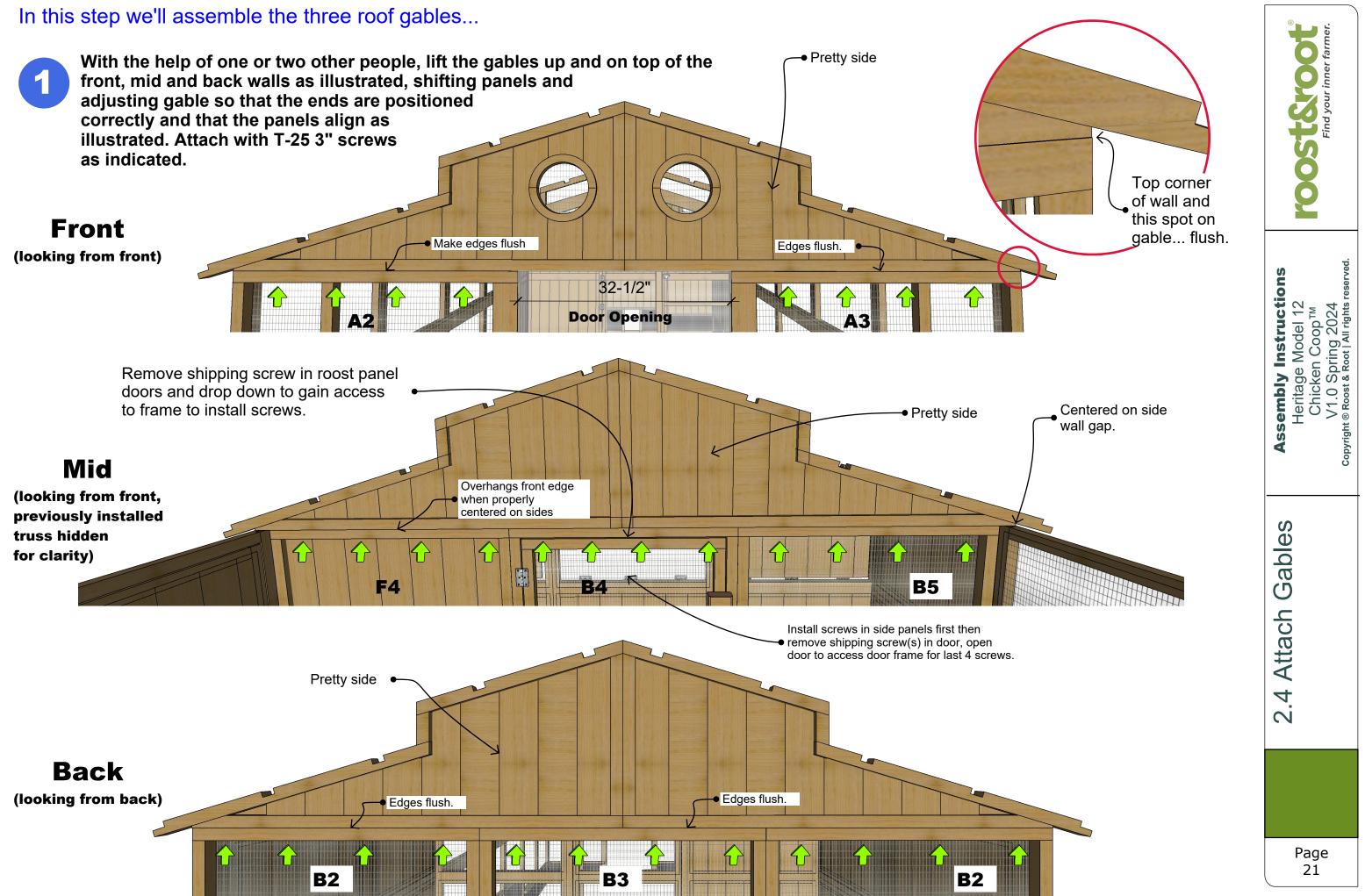




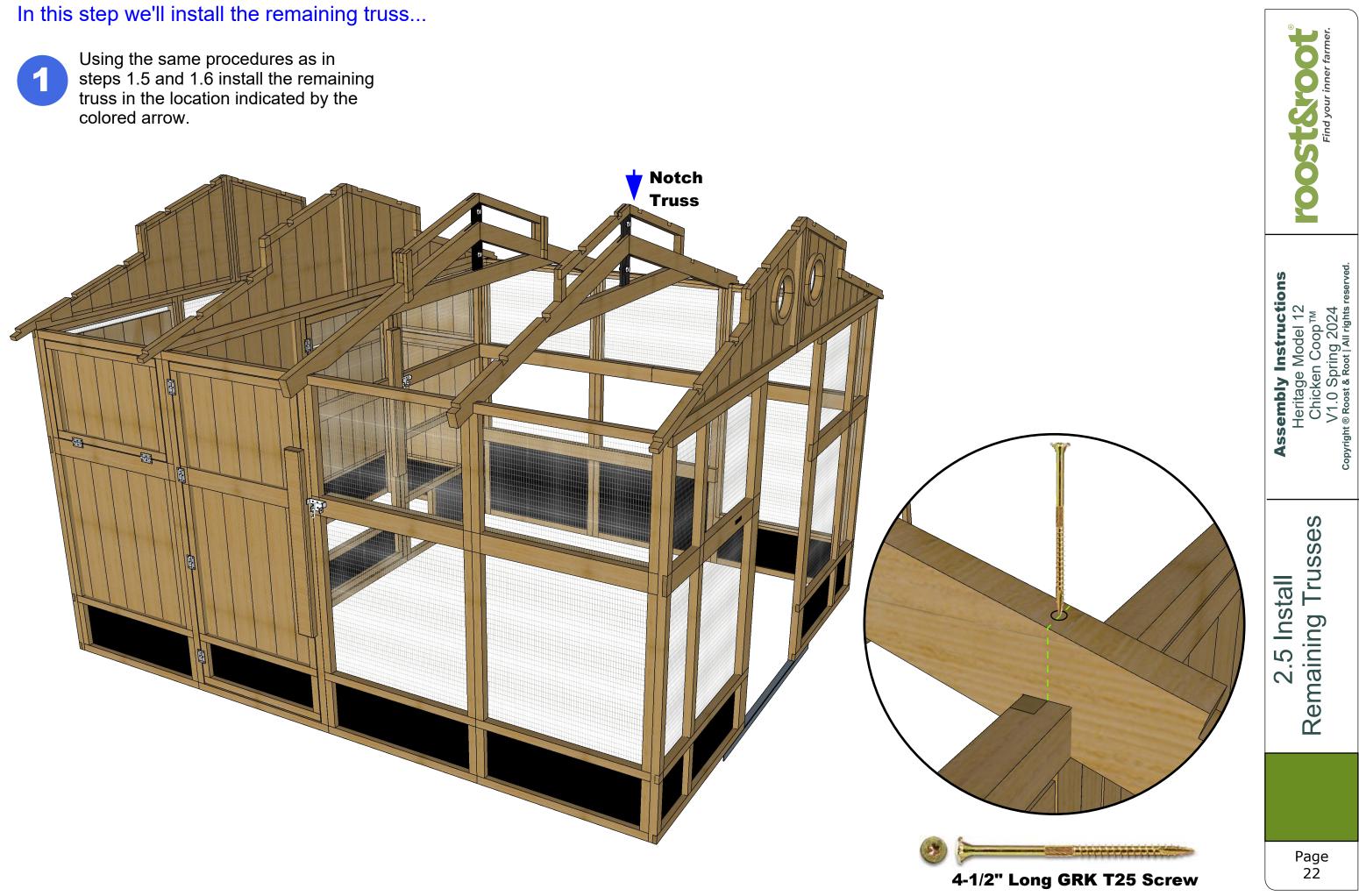
3 Inch T25 Screw







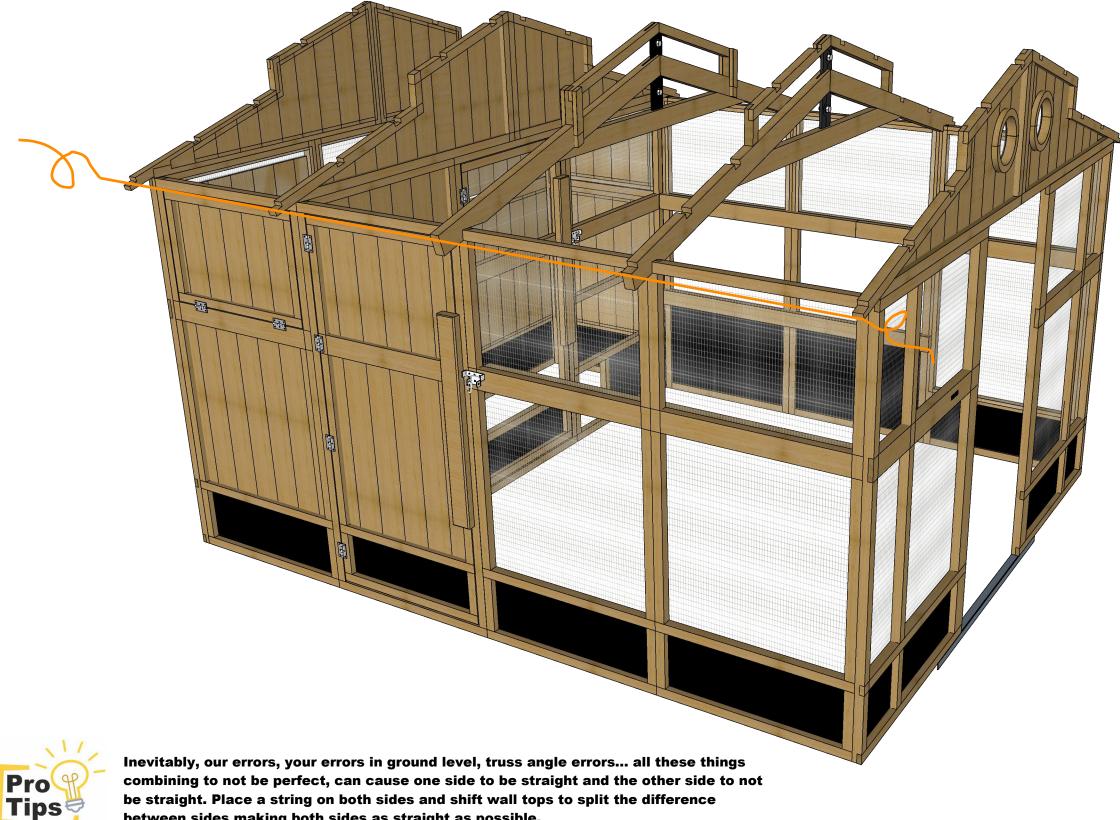




Before going to next steps we want to release some tension from wall tops and align the truss ends...



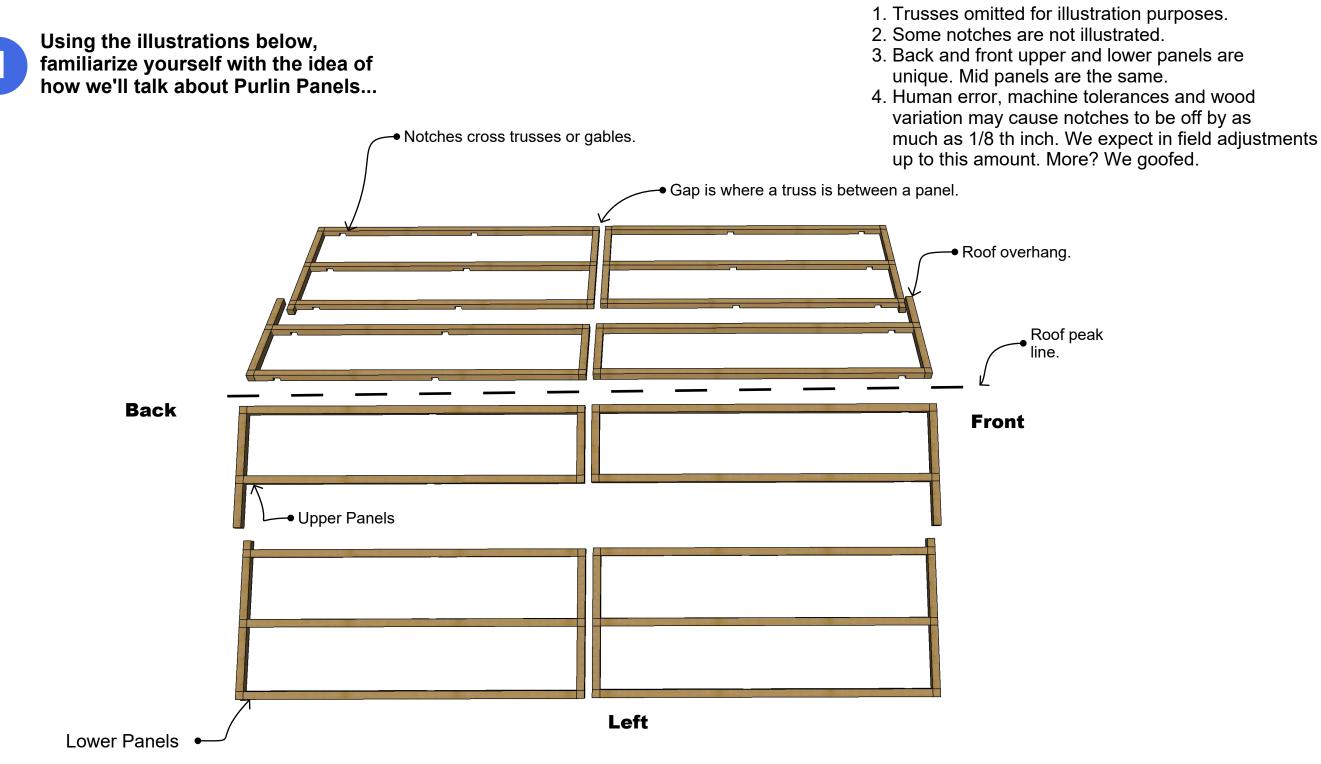
Using a piece of string pulled between both ends of the front and rear gable tails... tug and push on wall tops to get truss ends to run evenly along string. The straighter you can get this the easier the Purlin Panels in the next steps will install and the straighter your roof panels and ridge cap will look. In theory :-) you only have to do this for one side or the other...



between sides making both sides as straight as possible.



Purlin Panels lock into and between roof trusses to form the roof structure...





We supply a small bottle of very strong polyurethane glue that can be used to make roof structure "stiffer". Best practice would be placing a dime to nickel sized dollop of glue on the notched to notch overlaps before putting a T-20 screw in. Gluing and screwing is stronger. Too much glue would drip, too little would still be stronger than just a screw. Use judgement in the field. Wait for any drips to dry completely before cutting them off. Allow some dry time before wiggling structure too much.

Find your inner farmer. Assembly Instructions Heritage Model 12 Chicken CoopTM V1.0 Spring 2024 Sopyright® Roost & Root | All rights reserved. Panels | Orientation **Roof Purlin** 3.0 Page 24

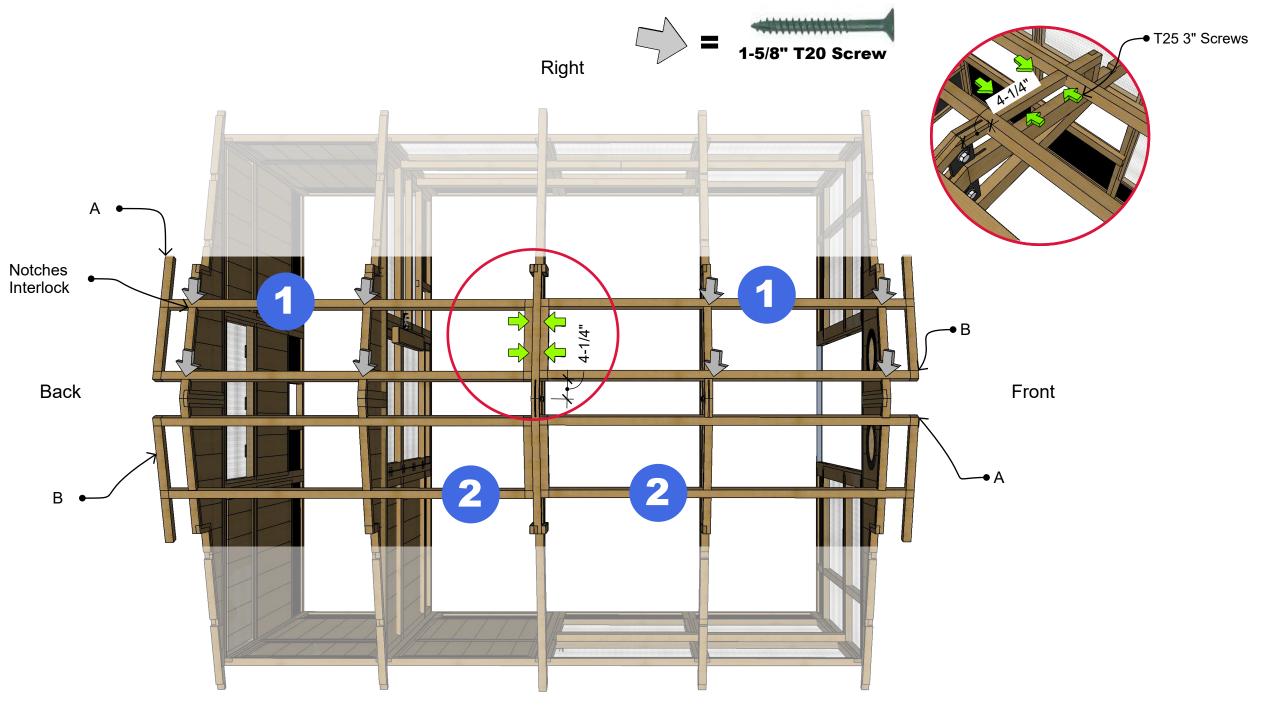
Installing the upper purlin panels will set the trusses in place.

Begin by identifying front and back left and right panels. Front panel "B" is same as back panel "B" and front panel "A" is same as back panel "A". Install right panels as indicated, interlocking notches and screwing together as illustrated. Optionally use a dollop of glue at notch interlocks.



FI

Repeat the above procedure for left panels.



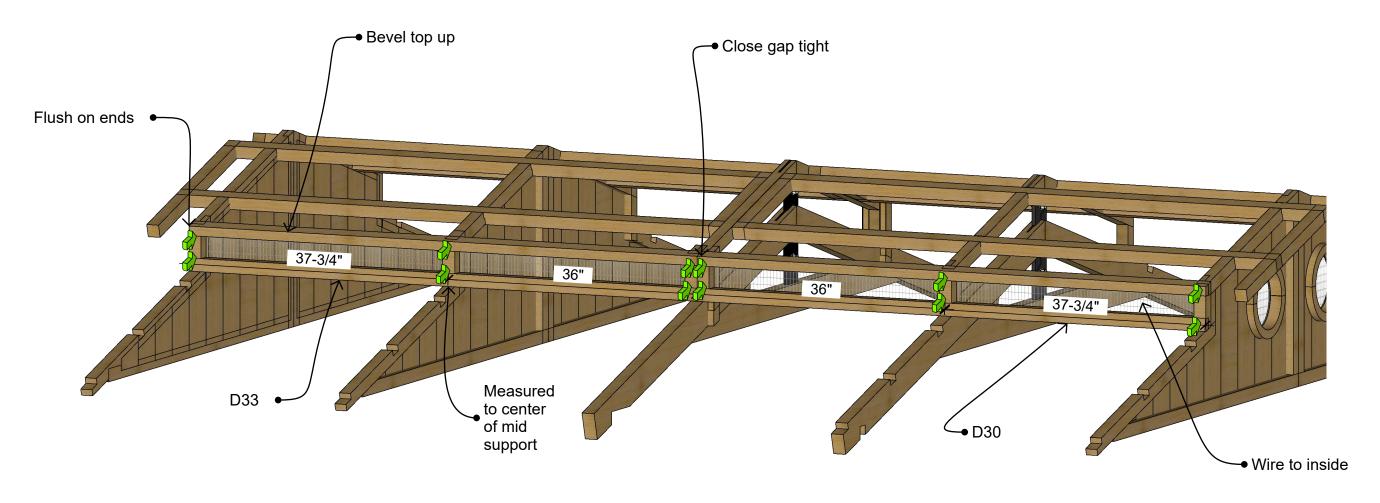


The next step before installing the upper roof, is to install the left and right transom panels...



Transom panels are the skinny wired panels that mount between trusses and gables on the step up from the lower to the upper roof. There are two left and two right panels. Left front and right back are the same. Left back and right front are the same. Measure the panels and identify for placement. Attach each panel with T25 3" screws as indicated.

Repeat for the other side.

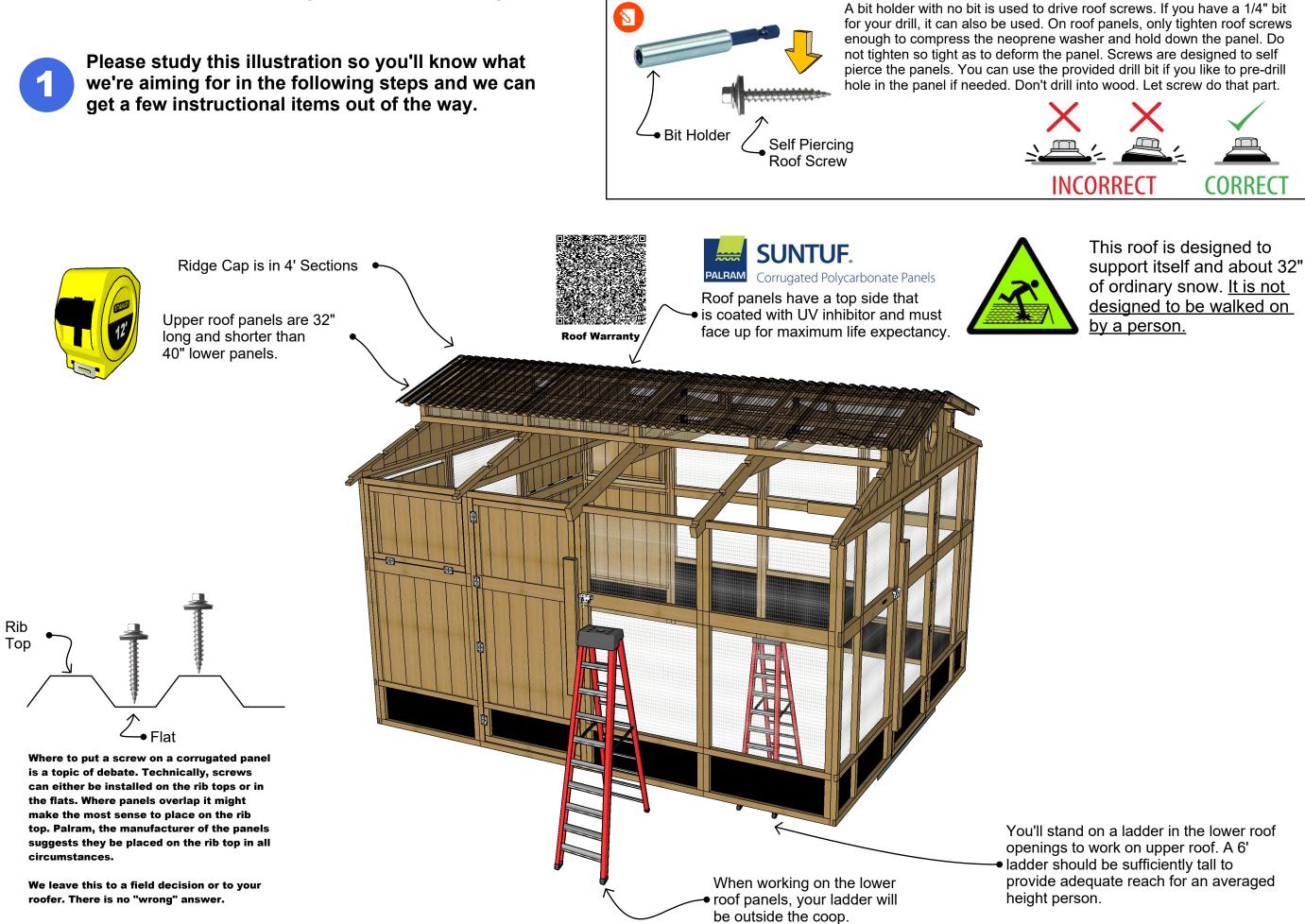


Left back and right front are the same. Left front and right back are the same.





This is what we will be aiming for in the following steps...



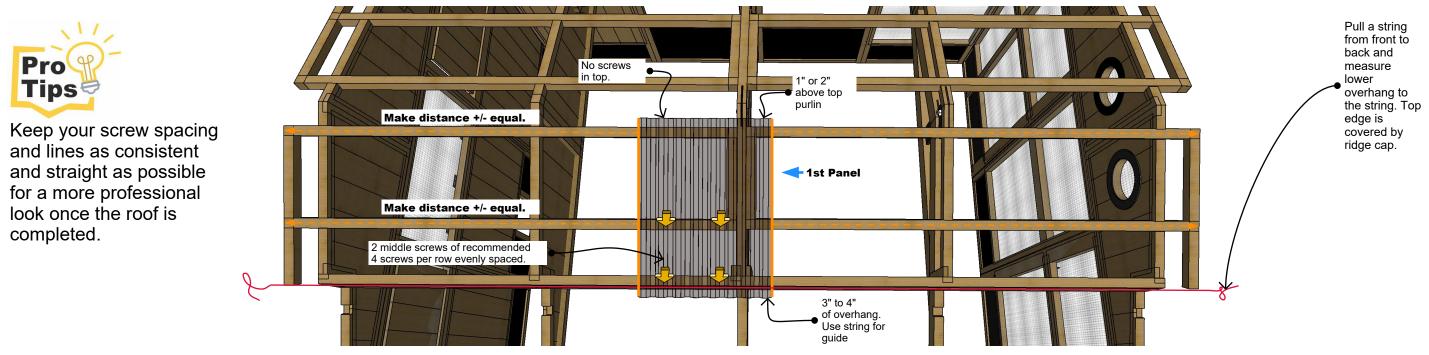


Using concepts discussed on previous page, install the upper roof panels on the left side of the coop as illustrated.



Note: An experienced roofer can roof the coop any way they want. It's a standard roofing job. We're writing instructions assuming a DIY homeowner might be performing the work and needs a method to perform the task. We realize that the method we illustrate is only one way of many to roof the coop and yield to the experience of the installer.

Place an upper panel (UV protected side up) as illustrated with edge of panel at roughly the center of the coop towards the back and adjust the panel to where the end to end measurements of the panel are as equal as you can make them. For a variety of reasons, it won't likely be perfect. This method will split errors in the squareness of the coop and make the sightline of the roof look the most straight and make the best edges when you get there. Place four roofing screws in the panel approximately where indicated, angled along with roof, where washer hits roof panel flat.

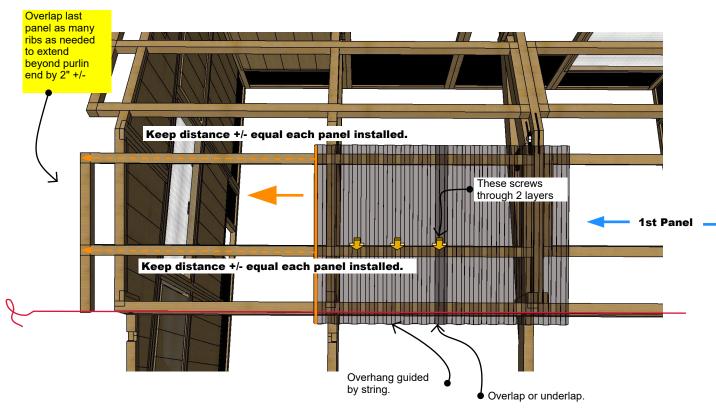


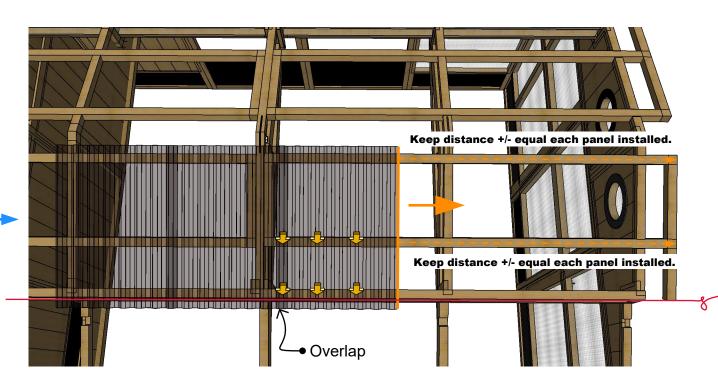
3



Work from middle to back by slipping 1 rib of the panel under (or over) the first panel. Measure each time to the back edge of the purlin and little by little make adjustments as you move to keep +/- equal. Keep bottom edge overhang +/- equal running along your string. As long as the top overhangs the top purlin rail it will be covered by the ridge cap. Repeat this until you're at the back and then slip last panel under as many ribs as needed to overhang purlin end by about 2". If you know how to cut a panel, you can do that instead of overlapping more than 1 rib.

In the same way you worked in step 2, work from middle to front by slipping 1 rib of the panel under (or over) the first panel. Measure each time to the front edge of the purlin and little by little make adjustments as you move to keep +/- equal.





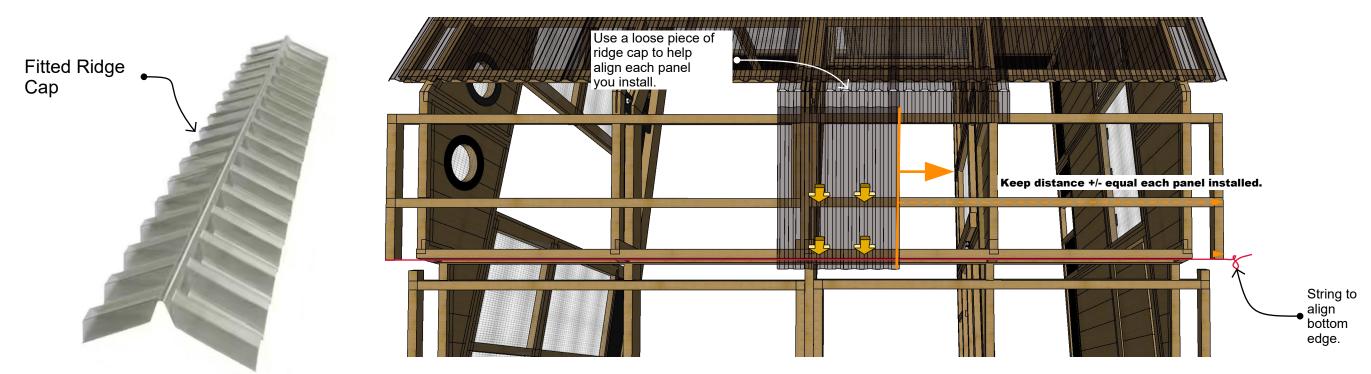


Using work methods performed on left side upper roof, install right side upper roof making sure panels align with ridge cap too...

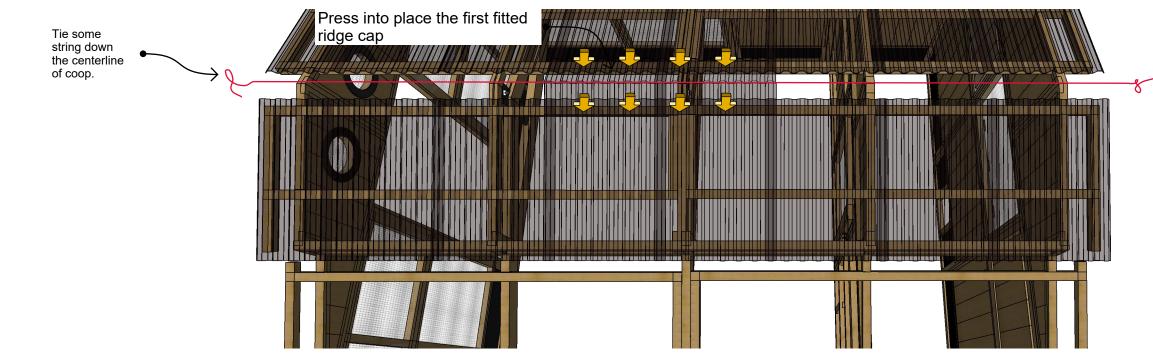
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Place an upper panel (UV protected side up) as illustrated on the right side with top edge of panel opposite a left side panel you installed earlier. Have a helper hold in place and press down a piece of fitted ridge cap over the ribs of the panel already installed and the panel that you're installing making sure ribs on both panels and valleys on fitted ridge cap all align nicely. Slide your roof panel as needed for bottom edge to overhang the 3" to 4" (same as you chose on other side) and once everything is aligned properly up and down and left to right set the panel in place by installing 4 roofing screws.

Repeat this procedure for the remaining panels to the back and then install all the panels towards the front shifting and adjusting as needed to align left and right panels.



Stretch a string across the centerline of the roof ridge. Again, you will probably need a helper... press into place the first piece of fitted ridge cap (splay out as needed to fit flat) starting in center of the coop. Install screws in a pattern similar to the ones installed on lower panels screwing through the ridge cap, through the upper edge of the roof panel and into the upper purlin. On the ridge you can screw into valleys or tops of ribs as it is two layers. Whatever makes ridge lay most flat. Leave ends not screwed down so you can slip in next ridges.



Either slip under or lay over ridge panels towards front and back of coop. You can overlap 1 or 2 ribs... slip under or lay over, whichever lays the most flat. Use roof screws in the same pattern as the roof panels below to attach ridge cap. Extra screws can be used to pin more flat if needed. Extend out even with roof panels on each end or 1 rib extended. Remove centerline string from under ridge when done.

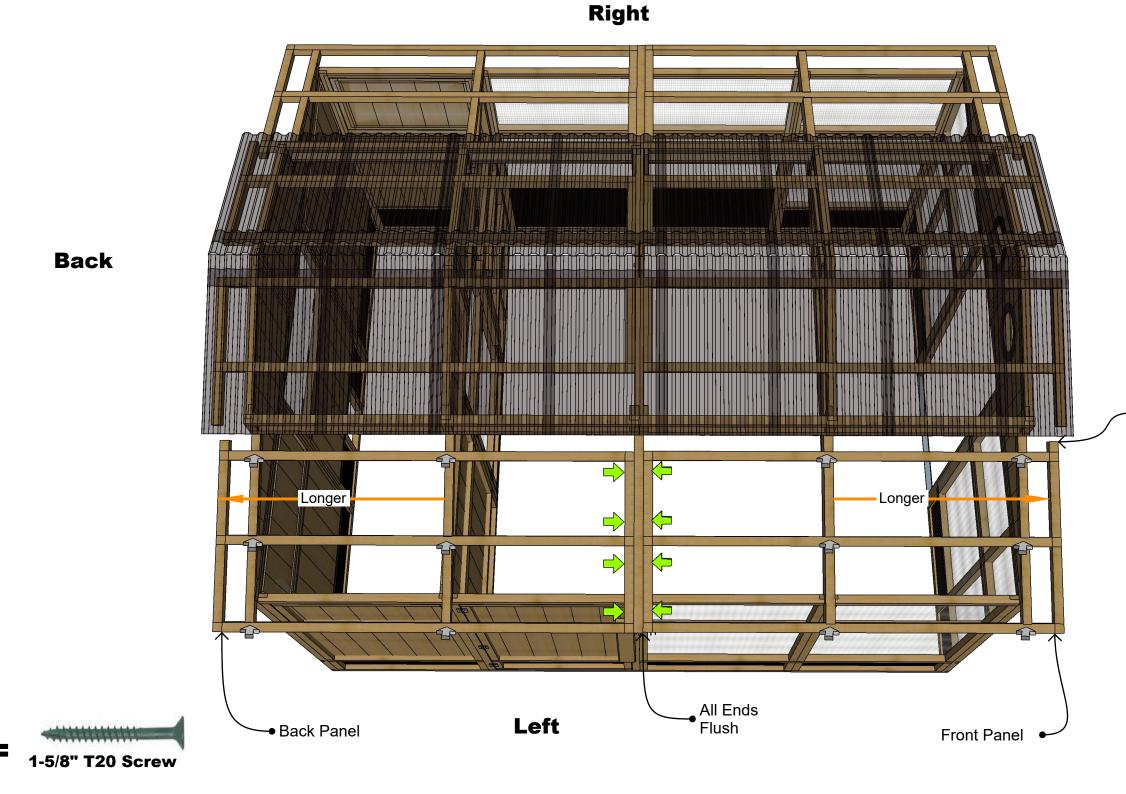


Time to install the lower purlin panels so you can install the lower roof panels.

1

Using the illustration... identify the left back and left front panels and install as illustrated. Place the notch in the panels over the notch in the notched trusses and gables. Make sure to make bottom edges flush with tails of gables and trusses. End of panels that butt up to the center truss are held in place by T25 3" screws as indicated. See diagram(s) for screwing instructions.

Install the right side lower purlin panels using the same procedures as explained in step 1.



Small support extension at top.

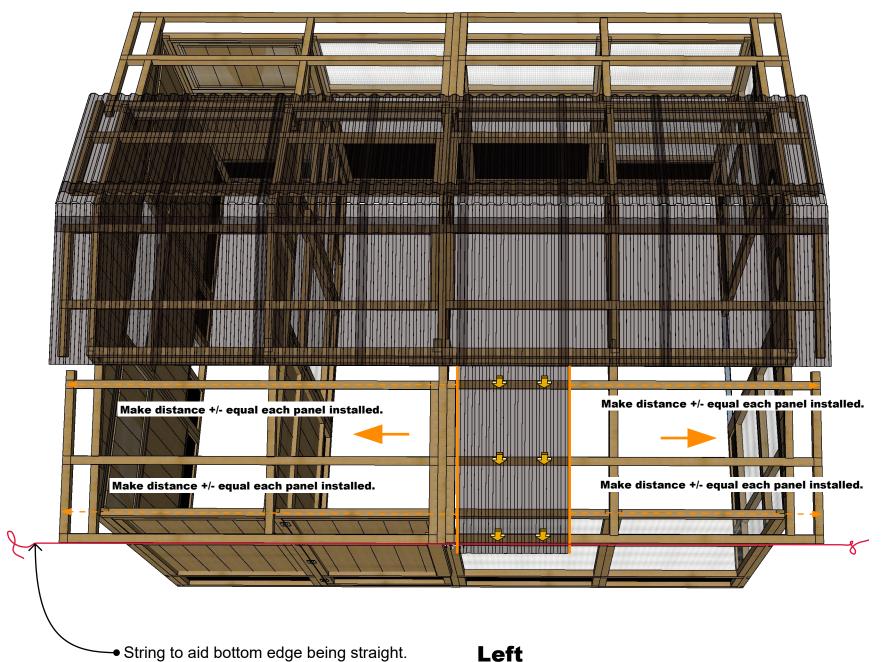


Install the lower roof panels using same techniques explained on upper roof panels.

Lower roof panels jam up against the face of the transom panels on the top edge and overhang the bottom purlin rail on the eave edge. F1 There are three rows of screws per panel. Using the same aligning methods in section 3.4 and 3.5, position first panel left to right and set the center screws. After that repeat procedure as before and install all panels to the front and to the back.

After completing one side, repeat the procedure on the other.





Right

Back

2



Install interior storage room walls and ceiling.



A1

F5 connects to back of A1 panel.

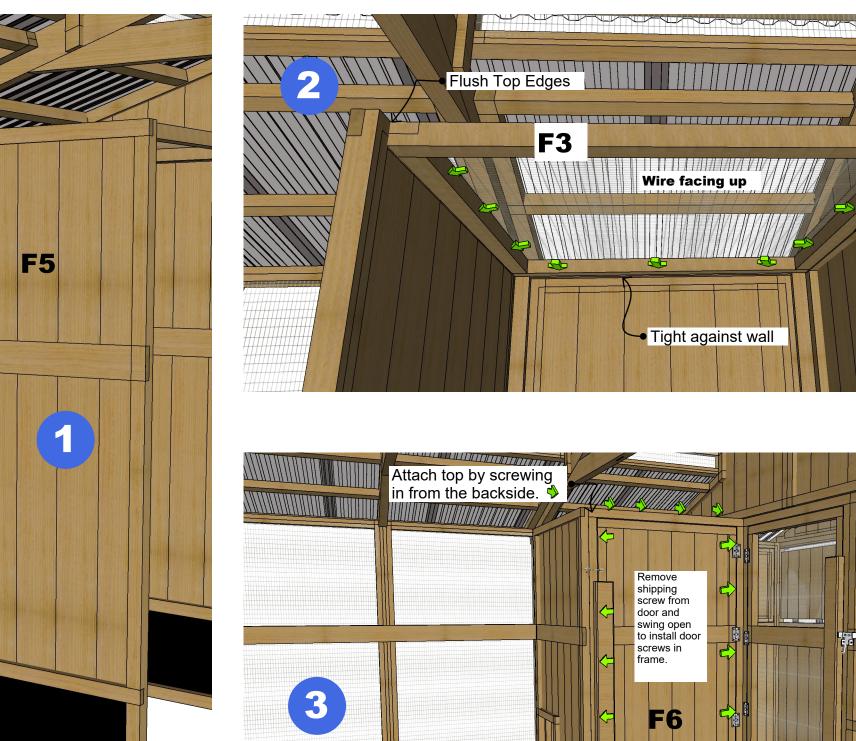
Install the F5 panel as illustrated. Take care to position panel as illustrated.



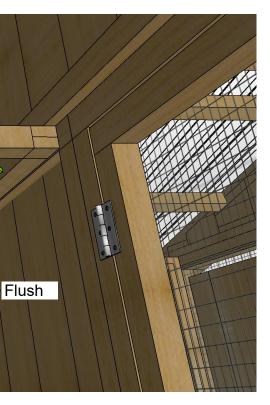
Install the F3 shed ceiling panel wire side up in top of shed area. Its to keep chickens out and strengthen walls. Use illustration for panel placement and screw pattern.



Install F6 panel as illustrated. You may need to try several methods to get panel in between walls as they might be a little tight. Screw pattern is as illustrated. Open door and screw through door frame.



Gently tap F6 panel into place as needed.



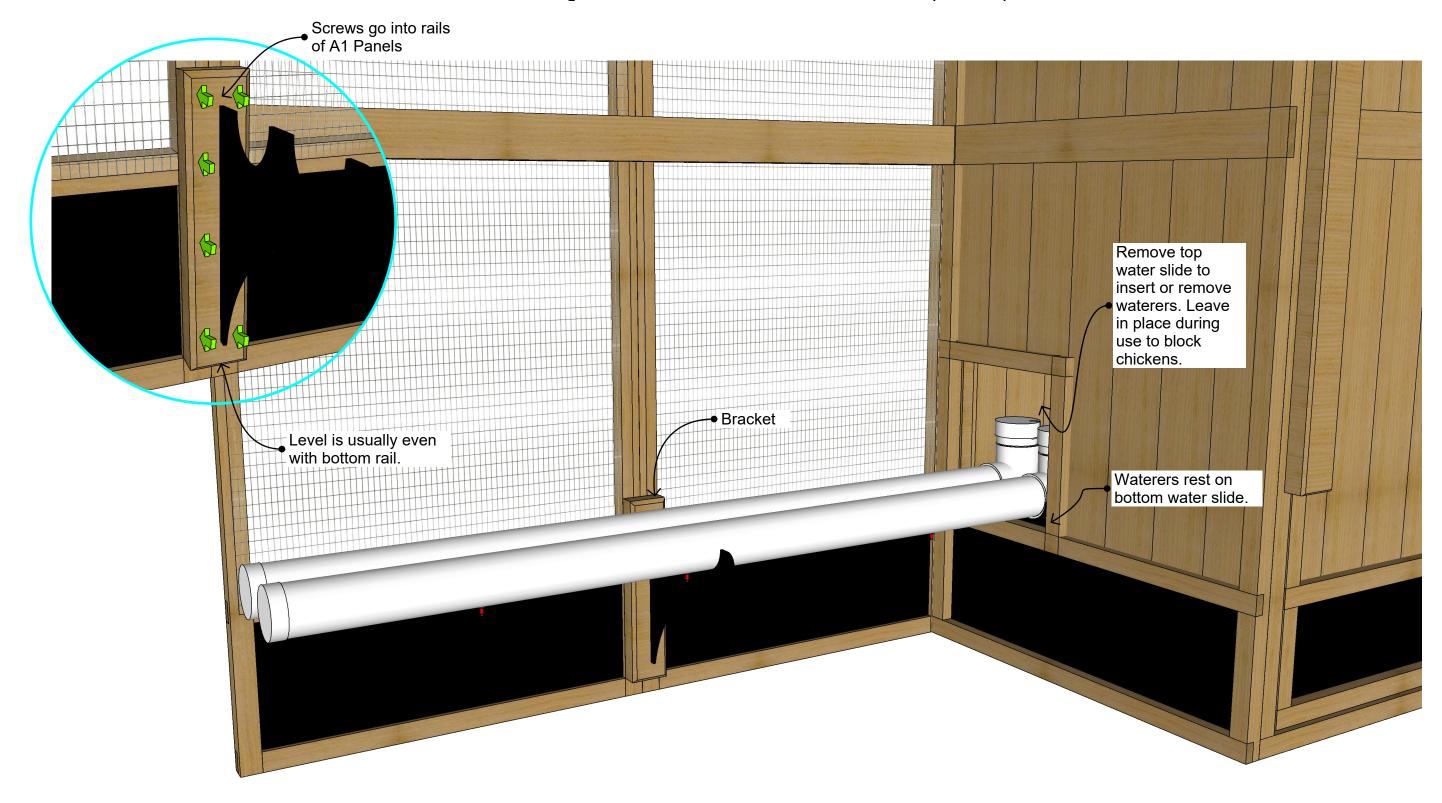




Install the waterer support brackets in the positions indicated for your coop... making sure waterer sits level when empty.



Attach waterer support brackets using 8 T25 screws (water is heavy) as shown in the positions as indicated. Remove the top slide in the front wall of the storage shed rest one waterer in place and using the level make sure waterer is level. Replace top water slide.

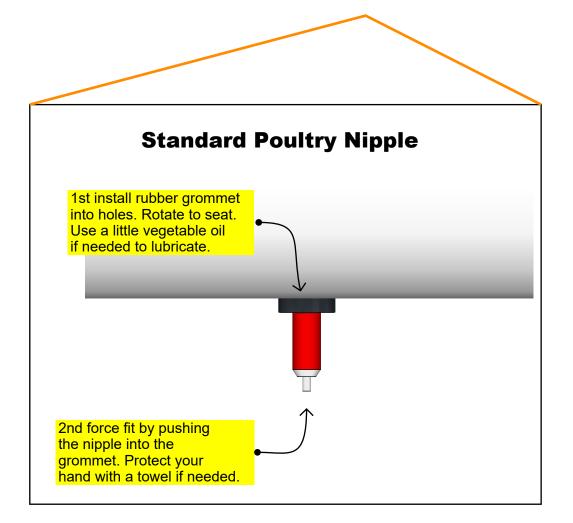




Install the poultry nipples you ordered with your kit.



Roll waterers over in their brackets and install all poultry nipples as per the illustrations below. Whether you ordered freeze guard or standard nipples, the process is basically the same.



Optional Freeze-Guard Poultry Nipple



Open included water soluble non-toxic lubricant and dispense a small portion onto your finger.





Applying even pressure, force Freeze-Guard Poultry Drinker[™] into pre-installed black rubber grommet until fully seated.



Smear a small amount of lubricant onto upper body of the Freeze-Guard Poultry Drinker™.

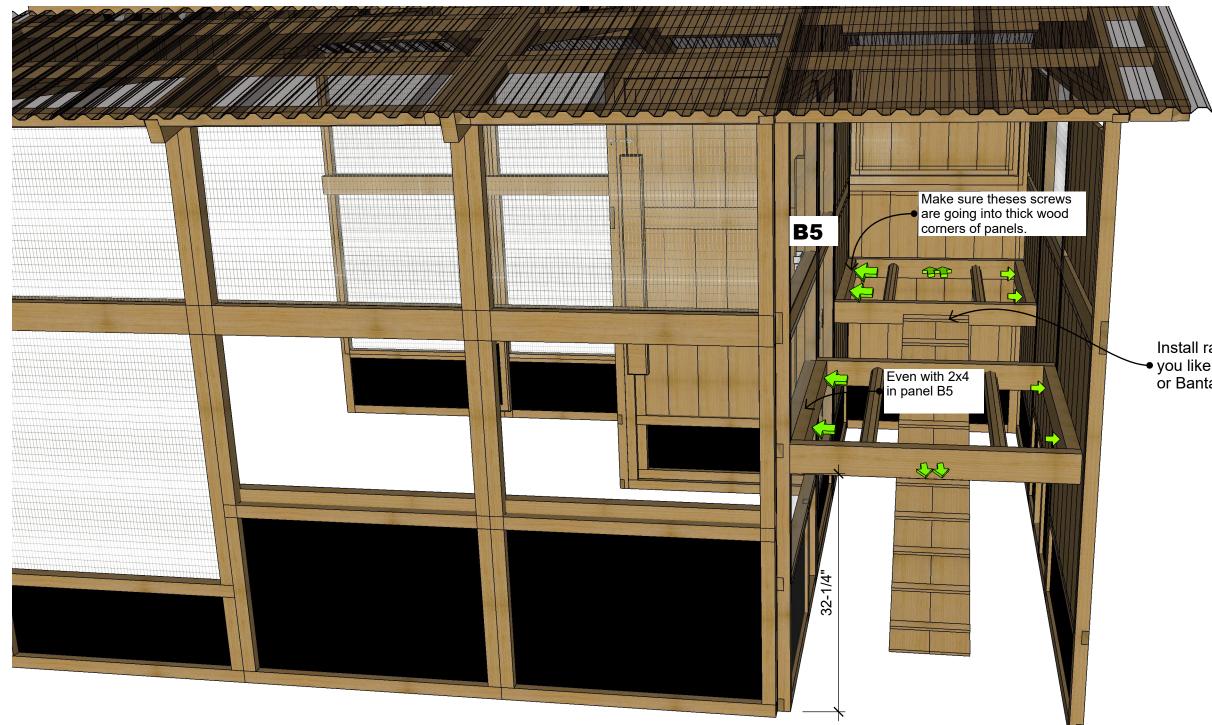
Showing properly installed Freeze-Guard Poultry Drinker™. Remove and reinstall using same method if you are taking your waterer out of coop.

	4.2 Install Poultry	Assembly Instructions	
Page 34	Nipples	Heritage Model 12 Chicken Coop TM V1.0 Spring 2024 copyright® Roost & Root I All rights reserved.	Find your inner farmer.

Lets set up the Roost Bunks for your chickens...

Roost bunks are one piece units. You can install bunk units at any height you want but we tested the coop with them set at 32-1/4 inches from ground and the ramp length is designed and built for this measurement. This height is easy for an adult non bantam breed chicken to just jump to the roost with no ramp and is a happy medium for weather protection and ventilation if roost wall doors are dropped down. Whatever height you decide, we suggest they be equally high.

Please pay notice that all screws drive into 2x2 or 2x4 wood. Make level.



Install ramp anywhere you like for young or Bantam Breeds.





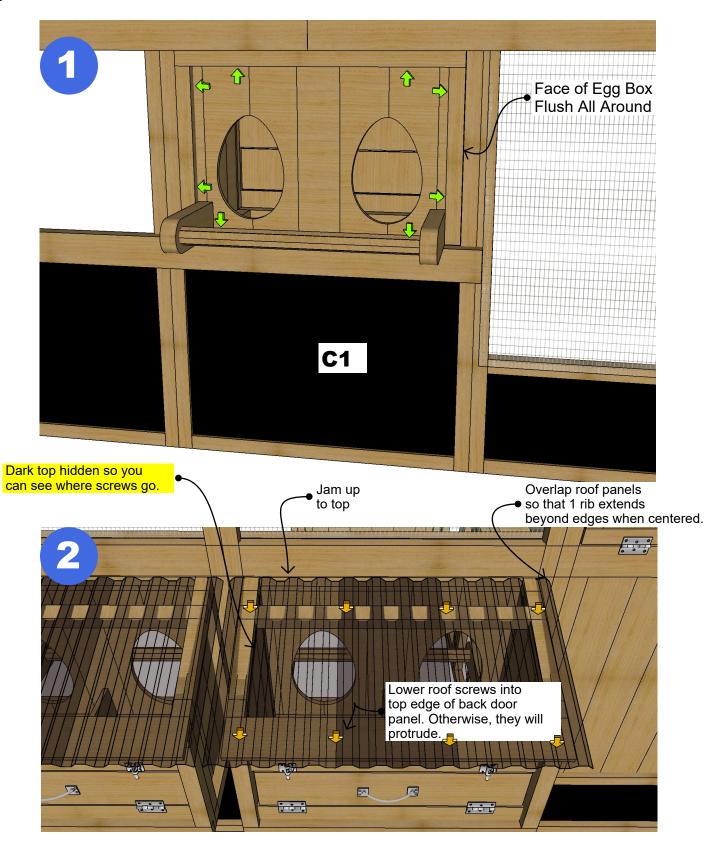
Egg boxes install as pre-fab assemblies into the openings in the C1 panels...



Insert egg box units into openings in C1 panels mounting them with 6 T25 3" screws as illustrated. "Shoehorn" them in a little if needed.

Install roof panels using roof screws and driving them through dark tops of egg boxes into wood as shown. Dark tops are required so that no light comes in. Chickens will in part instinctively lay eggs in a dark spot. Cozy counts too. Insert provided egg box liners. Liners are designed to be able to clean, and not be so comfy that chickens sleep in egg boxes or get broody. They go in, do their business and make room for the next hen.





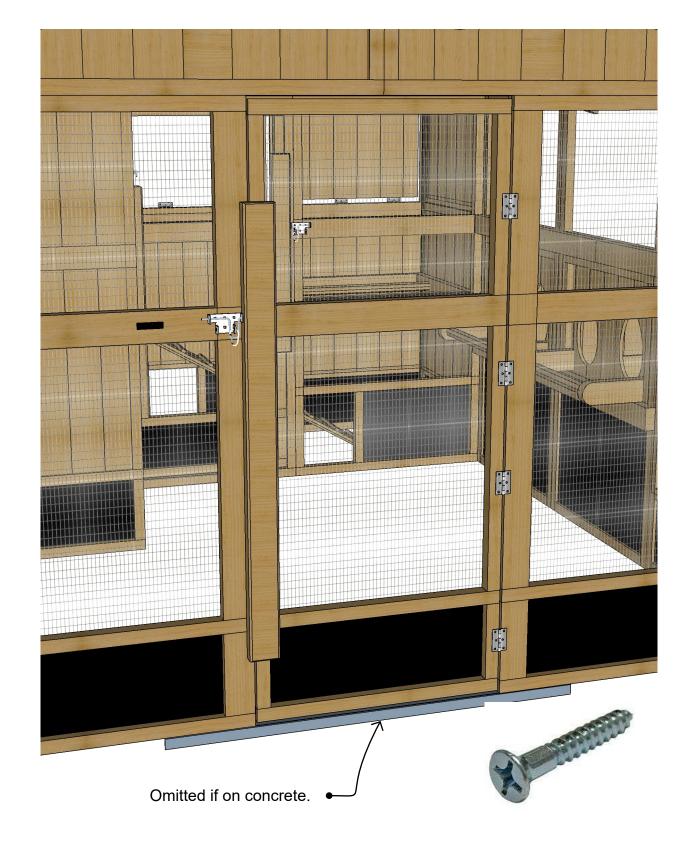


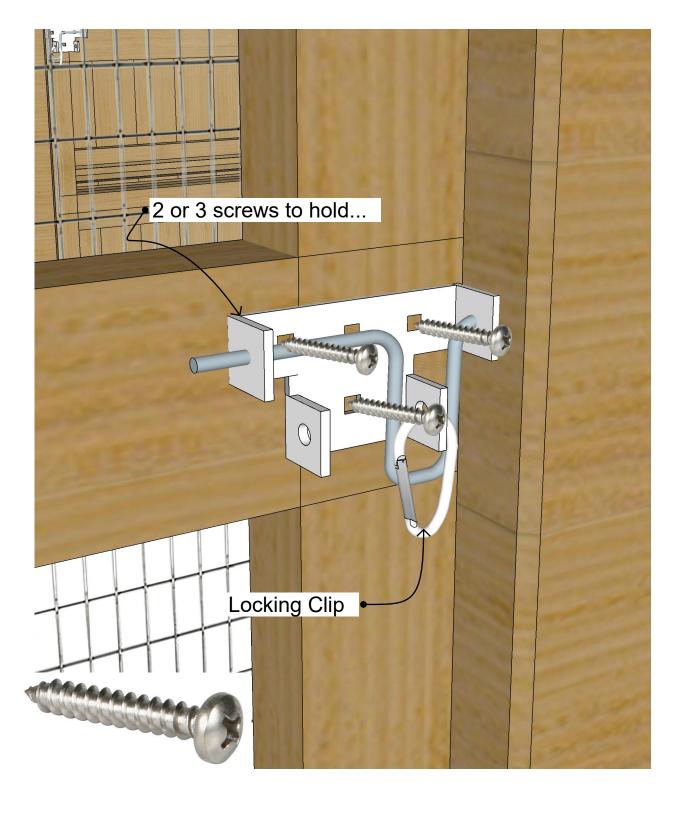
Time to install the front door...



Front door hinges are pre-attached to the door and the screw holes for other half of the hinge are pre-drilled in the right door frame. Starting off with the very top hinge and top screw, use provided Phillips head screw and install. Install snug, don't overtighten and strip wood. Switch the bottom screw on the bottom hinge and install and make snug. Switch back and forth from top to bottom installing all screws snugly making sure door stays straight. When confirmed aligned straight, tighten all screws tight, but don't strip out wood by over tightening. Door handle serves as handle, door stop, door stiffener, and catch for gate lock.

Install gate lock with larger pan head Phillips screws as indicated such that it freely goes in and out of hole provided in door handle.





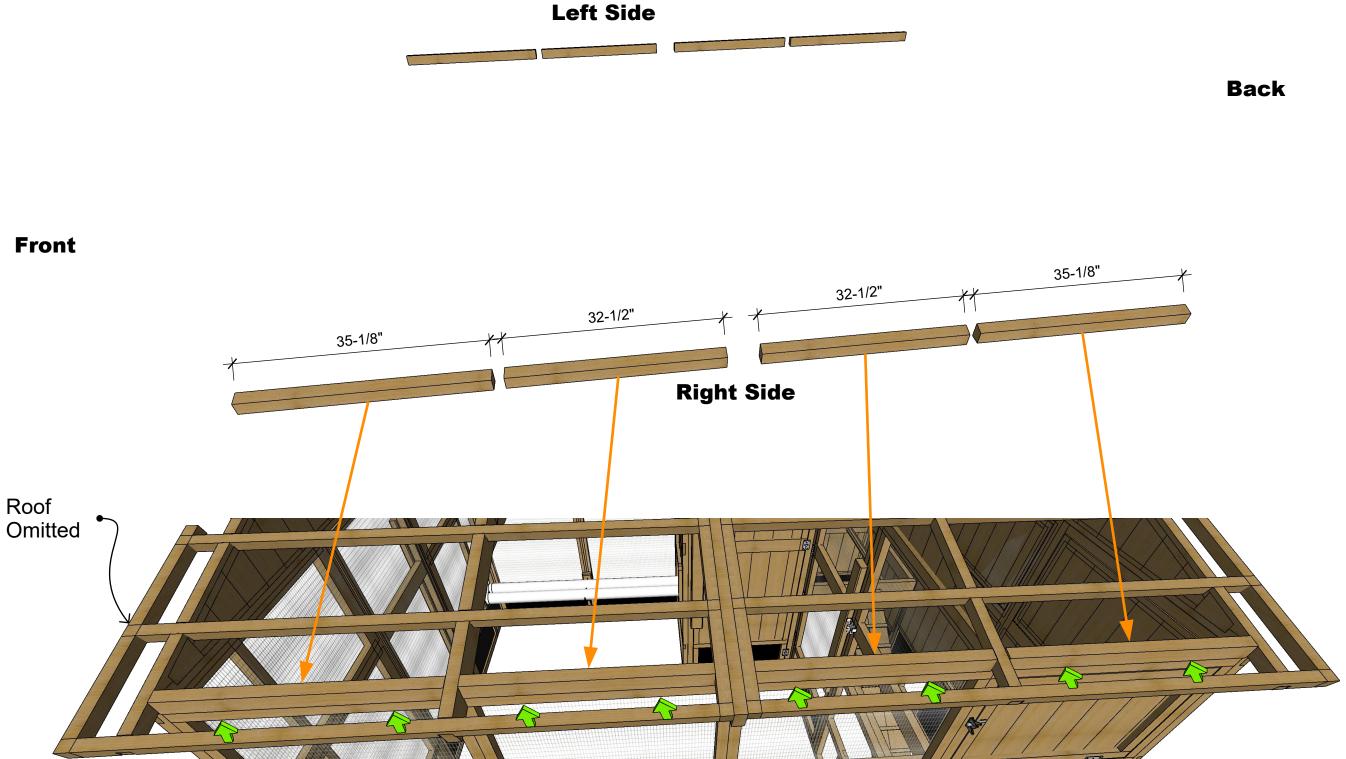


Install Bird Stop...



Using a tape measure, identify the various pieces of bird stop and install on top of exterior wall panels using T-25 screws as indicated in the positions between trusses and gables. They fit snug. It may require a tap with a hammer. More than taps... you've probably got the wrong piece or it may require a trim.

Beveled edge on tops of boards sit under roof line and flat bottoms on top of walls. Left and right sides are mirrors of each other. Screws drive up through the top rails of side panels into the bottoms of the bird stop.





Your coop comes standard with two high quality automatic doors...

Operating Concept - See provided manufacturers instructions for details, but here is an overview. Two doors are provided, one for the roost back and one for the roost entry. Both doors are outfitted with photo sensor eyes. If the program to the doors are not modified, they will each open automatically at sunrise, and then perform a close at sunset with their "second chance" function. Idea of back door is a turnout door, and front door as a second line of dense to a predator. This arrangement could also allow you to grow out one set of younger birds in the coop, and turn out older birds during the day. Both doors are operated by one battery and a solar panel to keep the battery topped off.

Kit Contents:

- (1) 5W Solar Panel attached wire in loom | bracket | two rare earth magnets
- (2) Right Hand Swing Doors attached wire loom
- (1) SLA Battery included battery box
- (25) Wire Clamps includes clamps and screws
- (2) Factory Hardware Envelopes programming magnet | instructions | screws | fuse

You cannot let the rare earth magnets used to hold the solar panel in place to touch each other. They're powerful and often shatter if allowed to hit each other and can pinch your finger to the point of bleeding. They attach to the solar panel bracket through the roof and allow it to be held in place without drilling any holes in the roof.

Install each door in the indicated positions using the included manufacturers provided mounting hardware and for the moment carefully lay the wire on the ground next to each door.

Do not overtighten screws such that a bind would be placed on the doors but make them only tight enough to be firmly held in place.



Door Outside Coop On Back Wall



Door Inside Coop On Mid Wall





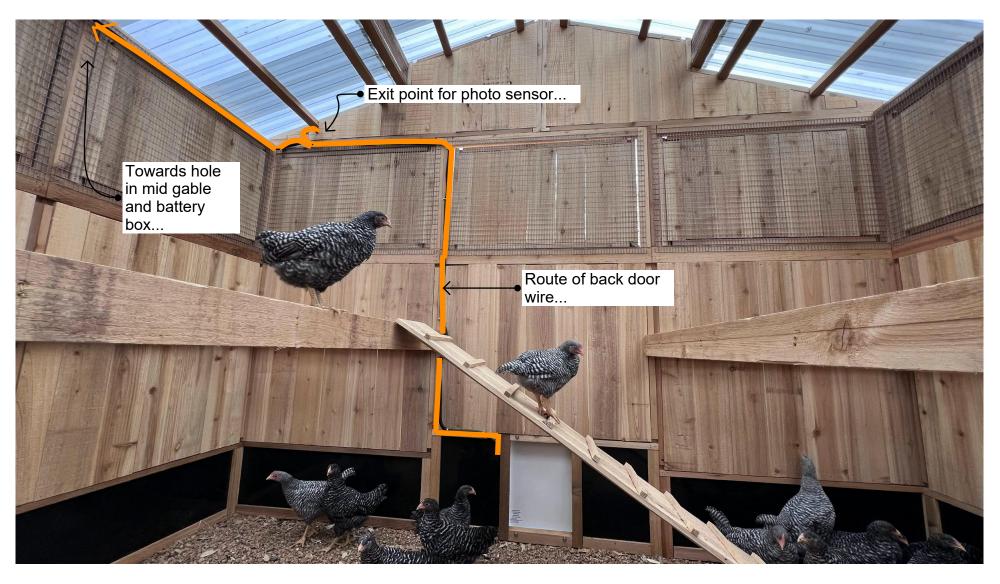
Route the wire on the back door first through the hole in the right black panel (illustrated) and then up and along the wall towards the location that the battery box is situated.

At about the 7' mark the photo sensor eye exits the main wire loom. Place it through the hole in the Back Gable as illustrated so that it can get outdoor light.

Use a clamp every 24" or so and in corners to hold the wire in its loom firmly.

See collection of illustrations and photos.

Be a little bit gentle pulling the wire so as not to break it.



Back door photo sensor exit point...

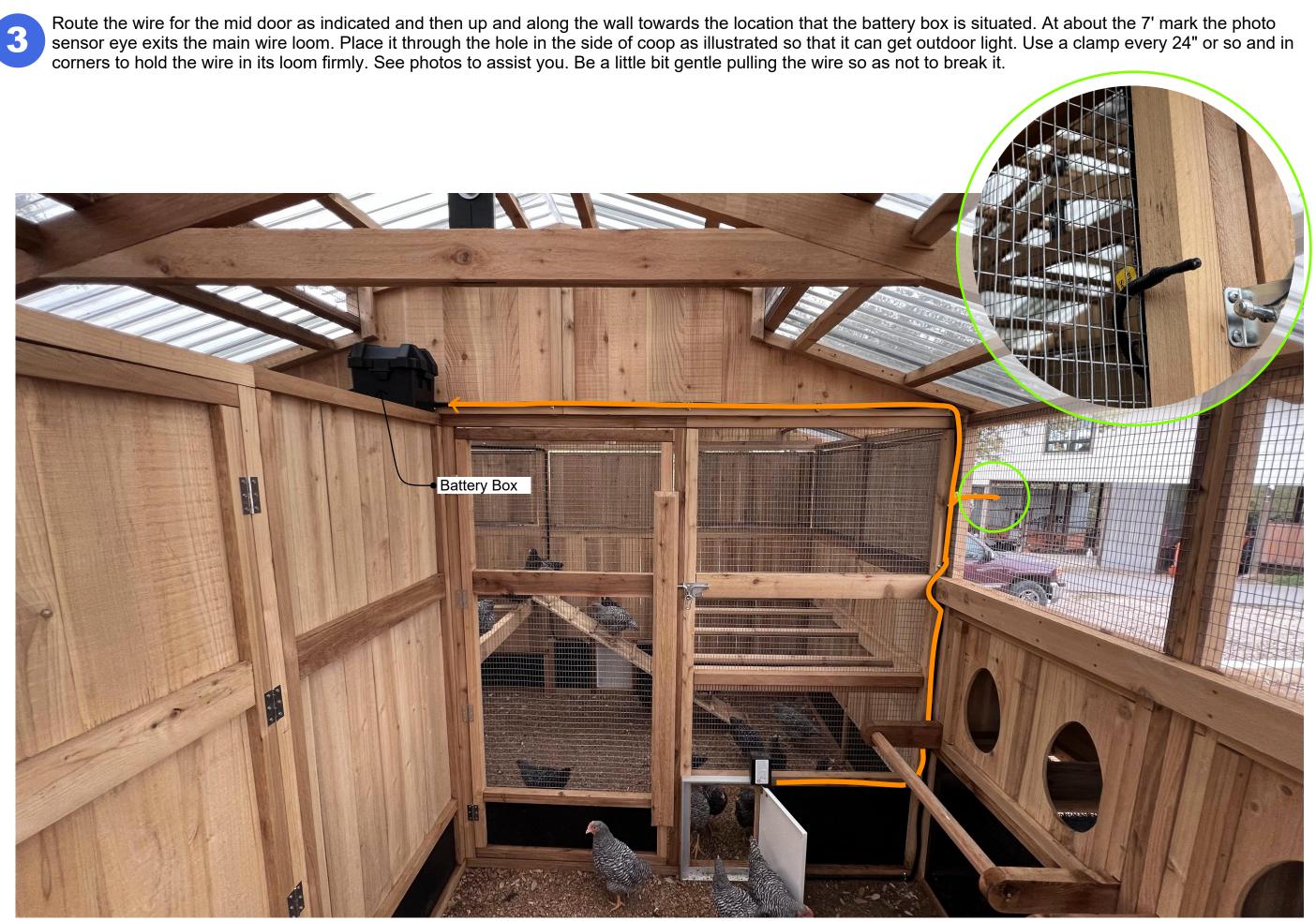




Battery box sits on top of shed ceiling...









The solar panel is held in place by magnets. Route the wire of the solar panel under a roof rib near the battery box and lay on roof where it faces the sun. From the underside, attach two of the rare earth magnets under the roof where they magnetically hold the solar panel bracket in place. Make sure the bracket is a little bit loose so that it lays down flat on roof ribs and allows the magnets to get a full "grab" on the bracket.



Attach Negative Wires - (1) attach the black wire piggy back terminal connector of the solar panel to the negative terminal of the battery. (2) connect the piggy 5 back black wire of one of the doors to negative side of solar panel piggy back. (3) connect remaining negative (black) wire from second door to negative side of battery too.

Attach Positive Wires - (1) Attach the red fused lead provided to the positive terminal of the battery. (2) attach the red wire piggy back terminal connector of the solar panel to the fused lead terminal. (3) connect the piggy back red wire of one of the doors to positive solar panel piggy back. (3) connect remaining positive (red) wire from second door to positive side of battery too. Don't let wires of solar panel touch each other once it is placed in the sun as it is producing electricity. Excess wire can be rolled up and carefully stored inside of battery box.

6

To operate doors follow the instructions as provided by the manufacturer. You can also go to www.chickendoors.com



Piggy Back Connector



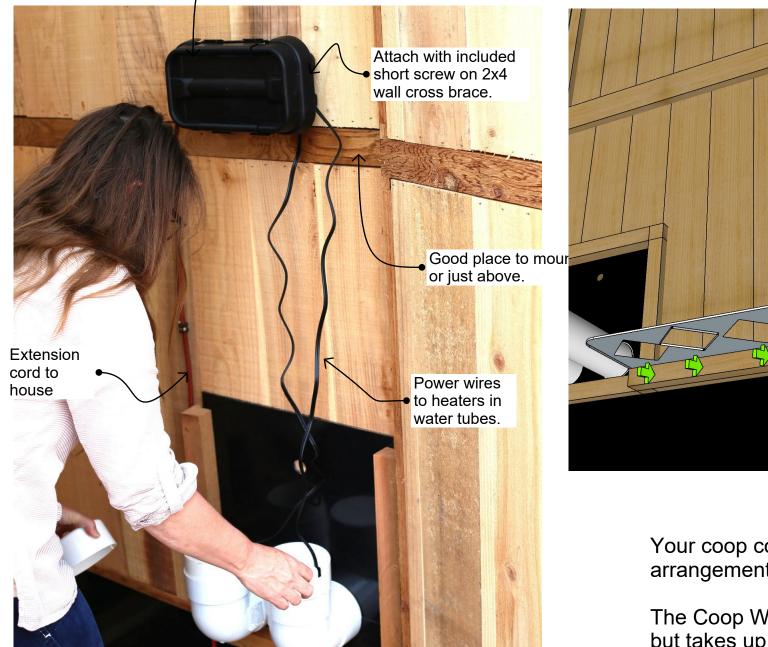
Install the various door latches as required. Align for smooth operation...

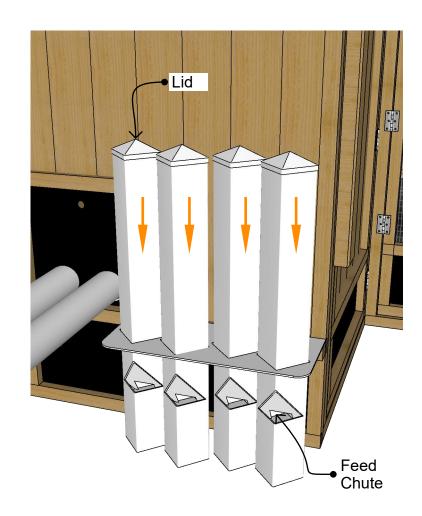






SockIt Box





The included SockIt Box is attached the shed wall above the waterers. It is designed to give a safe Place th out of the way place to connect an extension cord to manufactwo NOT PROVIDED immersible water heaters that your waterers will accept. See our website or call If you have to learn about what heaters will be good for your model indicate and your area. If you do not live somewhere where bracket.

you expect to want to heat the water, you may omit.

Your coop comes with either one Coop Worx bulk feeder or a quad arrangement of our Easy Fill² feeders.

The Coop Worx feeder is a bulk system that holds a week or so of feed but takes up run space. The Easy Fill² feeders hold a 3 or 4 day supply of feed (long weekend) and has the advantage of spilling less and taking up much less run space.

Place the Coop Worx bulk feeder in the run of the coop and follow the manufacturers instructions for use and assembly.

If you have the Easy Fill² feeders attach the feeder support bracket as indicated in the above illustrations and then drop the feeders into the bracket. Fill with either crumbles or pellets for use. If they were to clog from humidity they can be removed and jostled to reestablish feed flow.

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Assembly Instructions Heritage Model 12 Chicken Coop TM V1.0 Spring 2024 copyright ® Roost & Root I All rights reserved.		
6.2 Socklt Box & Feeder		
Page 44		

Optional Storm Panels Concept Overview

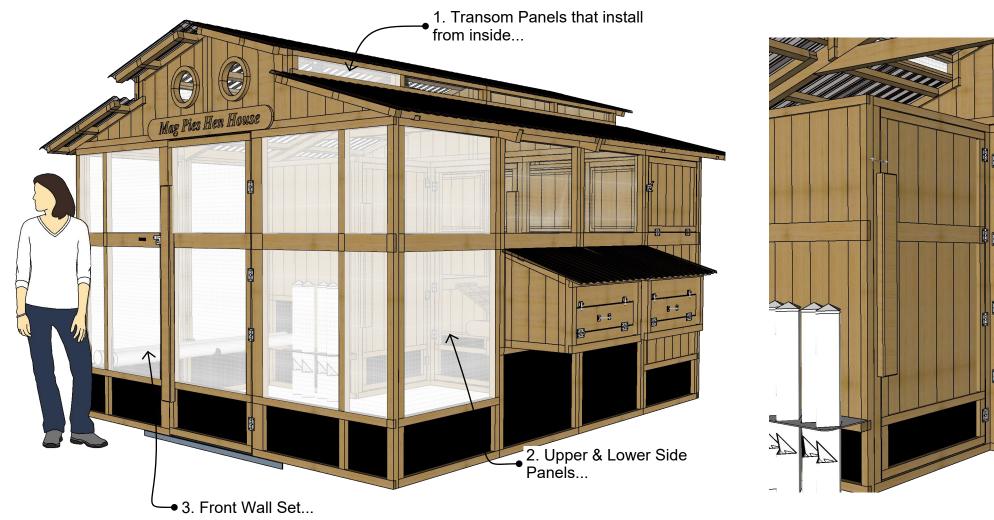
The primary purpose of storm panels is sub zero wind protection and helping to keep snow accumulation inside your coop to a minimum. They can also be used in regions that recieve monsoon wind driven rains to limit wind driven rain as well. We focus on "cold" in these instructions, but for whatever reason you decide to use the panels, the procedure is the same.



It's key to remember... regional appropriate adult chickens are very cold hardy. Your first move when nights begin to dip below about 20°F in the fall is to control the weather in the roosting compartment at nighttime with the flip up doors on roost panels. Each year your chickens will go through a process to add winter feathers. If you interfere too much with protecting them from the cold they will not add as much protection as they naturally would. Wet Sub-Zero conditions is mostly what you're trying to protect from... and undesirable accumulations of too much snow that creates too much of a mess. Chickens that are mostly dry and who can seek wind protection can easily deal with even sub zero temperatures. Sub -20°F temperatures for fully feathered adult chickens is where the needs begin to protect from frostbite. Every year we talk to customers whose chickens make it through even several nights of -30°F without dying. If you expect weeks of sub -20°F temperatures that don't warm up during the days you would want to take some measures to provide supplemental heat. ONLY USE HEATERS AS A LAST RESORT AND ONLY HEATERS THAT ARE DESIGNED FOR CHICKEN COOPS.

* If you live somewhere with a long cold season you may also want to research the deep litter method of creating warmth in the winter. The black HDPE lower side panels on your coop are perfect for this method.

Your coop requires a large number of panels to be applied to enclose it. The goal is to put them on once per year, and take them off in Spring. They fit loosely so that there is still adequate air flow but knock out the vast majority of wind and snow. There are 4 types of panels provided.



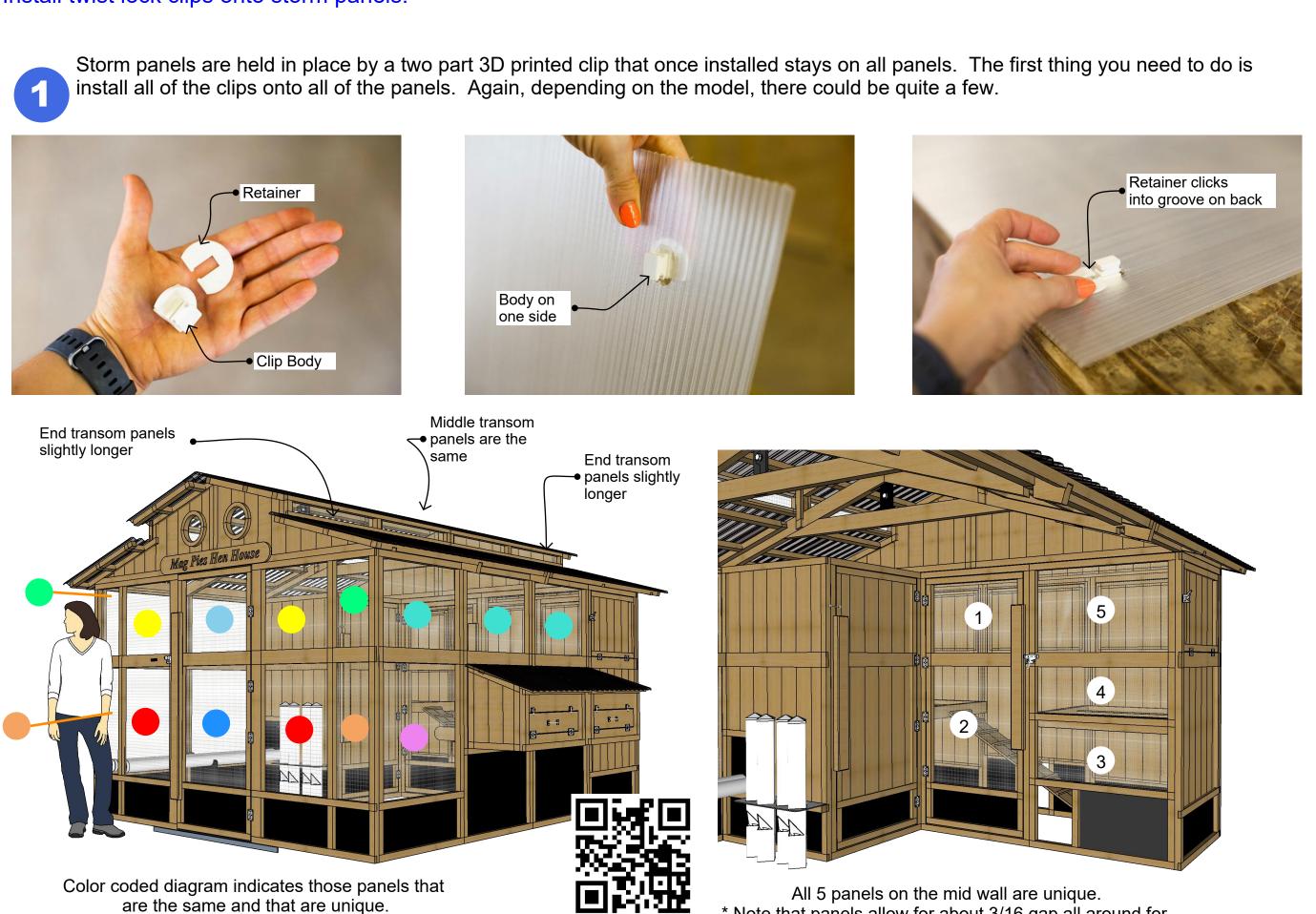
Depending on your model, the front and mid walls are the same but the number of transom, upper and lower panels will vary.





Install twist lock clips onto storm panels.





Install Video

* Note that panels allow for about 3/16 gap all around for manufacturing tolerances and ventilation.

