

Heartland Pergola



Assembly Manual

Pergola Assembly Manual

Thank you for your purchase of this Pergola

This manual is designed to simplify the assembly process, however we recommend having an experienced carpenter involved in the project. **Please read through the entire manual before starting!**

The Pergola put together for this manual was a 12 X 15 Rectangle. This manual can also be used for other sizes. It took 2 men, approximately 3 hours using the tools shown below. However, it may take you longer since it will be a new project for you.

Take a deep breath and get at it; the satisfaction and enjoyment of this pergola is only a few hours away. Have fun!

You have purchased a product that consists of heavy, bulky pieces. With your purchase, you assume full responsibility to have the necessary manpower and/or equipment available to unload the items. You also agree that any damage that happens to the equipment, product, or individuals during the unloading process, or during the entire construction process, is your responsibility, and neither the seller, nor the manufacturer, will be held liable for any such damage.

Tools Required for Job



6' Step
Ladder



Rubber
Mallet



Hammer



Paint
Brush



Ratchet
& 3/4"
Socket



Hammer
Drill



1/2" Concrete
Drill Bit



Cordless
Drill



25' Tape
Measure



Utility
Knife



- (4) 2x4 boards approx 8' long
- (2) 2x4 boards approx 4' long

Parts Sheet



9x3.1/2" Coated Screw



9x3" Coated Screw



9x2.1/2" Coated Screw



10x1.1/2" Black Head Screw



5x5 Post Bracket



4" Concrete Lag Bolt



#2 Square Drive Bits 2" & 4"



Header Board A



Header Board A



Header Board B



Header Board B



Header Board C



Post



2x6 End Stringer



2x6 Center Stringer



Main Rafter



Arched Rafter

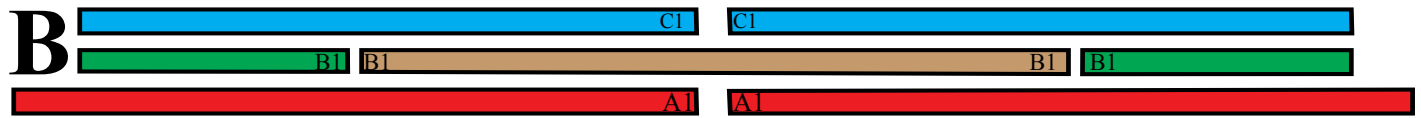
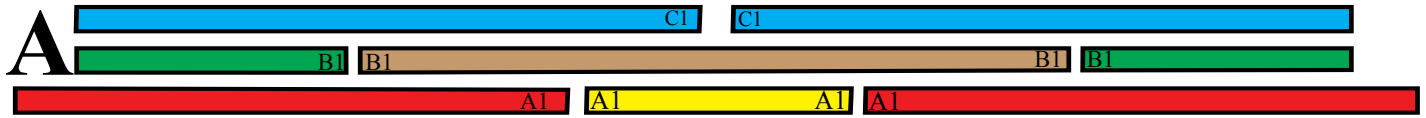


Brace



Touch Up Stain

Header Assembly



- Begin by finding a clean area to work. We used some available 2x4's to keep header clean and protect the patio from potential screws coming through. Diagram A shows the Header Layout for a 17' Unit, Diagram B Shows the header layout for the 11', 13', & 15' Units. Follow the steps below to assemble header.

- Start assembling header by placing Header Boards (A1) in a row. Locate nicest side of board and place facing ground. This will be the side that shows when Pergola is assembled.

- Place Header Boards (B1) on top of row (A1) (As shown in diagram above).



- Ensure Header boards are flush with top of each other.
(Top is side with notches)



- It is important to align notches accurately.



- Attach Header Boards (B1) to Header Boards (A1) using 2.1/2" coated screws through pre-drilled holes.
- Ensure all screws are counter sunk and boards are drawn tightly together.



- Layout Header Boards (C1) on top of Header Boards (A1 & B1)
- Ensure accurate alignment.



- Attach Header Boards (C1) using 3.1/2" coated screws through all pre drilled holes.



- Again ensure all screws are counter sunk and boards are drawn tight together.

Caution - If you fail to fasten header boards tightly, or use less than all screws recommended, this may result in failure of header beam.

- Repeat all above steps using A2, B2 & C2 Header Boards

Attaching Header Assembly to Posts



-Place Posts on floor with notched section facing up



-Protect your patio and keep your new pergola clean by using cardboard or any other available protection material.

- Attach Post Brackets to base of post using 1.1/2" Black Head Screws.



- Using 2 men place header assembly into notched section of posts.



- Ensure header and posts are square. (Lined up nicely with each other. All gaps closed)



-Attach header to post using (5) 3.1/2" Coated Screws



- Stand Posts and Header Frame upright in desired location.



- Ensure that both Header Frames are correctly facing the inside of the pergola.



-Make a temporary 2x4 A-frame to stabilize the Header Frame. (Not included)

-Repeat to complete 2nd Header Frame.

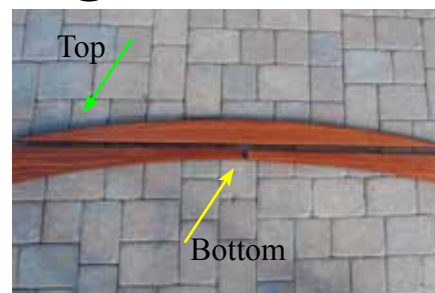
Attaching Braces & Assembling Rafters



- Attach Braces to the Post and Header, using the 4" long square drive bit and (4) 3.1/2" Coated Screws per brace.



- Align top of Brace with center Header Board (Board B).



- To assemble rafters layout 2 Main Rafer pieces and 1 Arched Rafter as shown above.



- Line up both ends of the Arched Rafter to the the markings on the top of the Main Rafters.



- Ensure the two Main Rafters come together "centered" on the Arched Rafter.



- Fasten the Arched Rafter to the two Main Rafters through the pre drilled holes using 3" Coated Screws.
- (8) Total Screws per Rafter Assembly.



- Assemble remaining Rafter Assemblies using same previous four steps.



- Set completed Rafter Assembly on top of Header starting at one end.

NOTE - Photo of Rafter Assembly.



Rafters Continued



- Set Rafter assembly into Header notch.
- The Rafter Assembly is marked 12" in from end. Align marking to outside edge of Header as shown above.



- Fasten Rafter assembly to Header on both sides using 3" Coated Screws. (toed as shown above.)
- Install second Rafter Assembly on opposite end of pergola using same steps as above.



- Continue adding all additional Rafters into notched spaces of Header. Fasten each rafter using (2) 3" Coated Screws on both sides of Rafter Assembly. (Toed as shown above with yellow arrows.)



- Finish all Arched Rafters using the same application.



- Place Brace into place, ensure Brace is center on Rafter Assembly and slightly in from outside edge of Post.
- Attach Brace using 4" long square Drive Bit and (4) 3.1/2" Coated Screws per Brace.

Stringer Installation



-Place a 2x6 End Stringer onto the Rafter assembly.
- Align the notch of the End Stringer with to the premarked line on the Rafter Assembly.



-Tap End Stinger into place using a rubber mallet.



-Attach End Stringers to the Rafters Assembly using (1) 3" Coated Screws at "each" intersection. (Toed as shown)



- After installing 1st End Stringer, install Center Stinger. (Smaller Units will not have Center Stringer.)

- Install and attach using same method as shown in previous 3 steps.

-Install and attach opposite End Stringer, as shown in previous 3 steps.



- Attach Center Stinger to End Stinger with (1) 3" Coated Screw. (Toed as shown)

-(If you purchased a shorter pergola without a Center S tringer, simply attach the two End Stringers together)



-Continue by attaching all Stringers until Complete!

Attaching Your Pergola to your Patio.



When attaching your Pergola to a patio, ensure you attach it to a solid structure. (I.e. Concrete Base, Concrete Pad, Deck etc.. Do not attach to pavers alone. Pavers will not hold your pergola down in high winds.



-Using a Hammer Drill and a 1/2" Drill Bit (Not Included). Drill into the patio.



-Photo showing newly drilled hole.



-Insert included 4" Concrete Lag Bolt into hole.

-Tighten Lag Bolt.

Congratulations!
Enjoy your Pergola!

Optional Superior Post



Post Panel



L Trim



Base Trim



Top Trim



8x1.1/2" Stainless Screw



8x2.1/4: Stainless Screw



-Place (2) Post Panels together as shown.



-Join together by using (3) 1.1/2" Stainless Screws through pre-drilled holes.



- Finish Post by adding additional Panels and joining together as shown in previous (2) steps



- Place Base Trim around Superior Post Panels and attach using (3) 2.1/4" Screws through pre drilled holes. Set post panels into notch of Base Trim.



- Place L Trim onto corner resting on top of Base Trim.



-Attach Post L Trim using (3) 1.1/2" Screw.



-Set Top Trim into place as shown. Ensure even fit all around.



-Attach Top Trim using 2.1/4" screws at corners



- Complete by fastening down the Top Trim using 2.14" Screws.
- Finish remaining desired posts.

Optional Lattice Roof



2'x2' Lattice Panel



8x1.5/8" Coated Screw



-Place Lattice panel in between both 2x6 Stringers and Rafters.



- Place second Panel in place.
As shown



-Attach with (4) 1.5/8" Coated Screws (per section) through pre-drilled holes.



- Angle screws slightly toward center of rafter.

-Install all Panels as shown in previous steps.

Warning - Do not step onto lattice when installed!

Optional Privacy Wall



Foot Bracket



Privacy Wall Panel



Privacy Wall Lattice Top



1/4 x 2" Concrete Screw



8x2.1/2" Coated Screw



Frame Board Center
No Notches



Frame Board Top & Bottom
(1) Notch



Frame Board Sides
(2) Notches



10x1.1/2" Black Head Screw



-Layout Privacy Wall Frame as shown above.



-Connect the Frame Boards together using (2) 2.1/2" Coated Screws at each connection

- After completing the first section continue to assemble the remaining sections.



-Remove the 2 Braces from the Header and Post on the side you wish to have the Privacy Wall.



-Set your 1st frame into place, starting beside post and place the larger opening up.



-Ensure Frame is flush with inside of Header and tight against Post.



- Attach Frame to post using (5) 2.1/2" Coated Screws. Space evenly from top to bottom.



- Place Privacy Wall Panel into opening. Ensuring side with pre-drilled holes are facing out. (This is for looks only)



- Privacy Wall Panel may be tight use a rubber mallet to tap into place. Align center into frame.



-Place Second Privacy Wall Panel into Place as shown.



- Place Privacy Wall Lattice Top into place, it may be tight, use a rubber mallet to tap into place.
- Align center into frame.



- Attach Wall Panels to Frame using 2 1/2" Coated Screws through pre drilled holes. Fasten on outside of Pergola to hide screws.



- Attach Lattice Top Panels to Frame using 2 1/2" Coated Screws through pre drilled holes. Fasten on outside of Pergola to hide screws.



- Finish installing Wall Panels into place repeating previous steps.



-To slide Foot Bracket into place use a 2x4 board, keeping the 2x4 board as close to the wall leg as possible - lift up.
-Insert the bracket below posts as shown.



- Place foot Bracket under Frame Boards as shown and attach using 1.1/2" Black Head Screws.

- Fasten Bracket to patio. (Concrete Tapcons are provided for concrete patios. Be sure to pre-drill before installing.)



- Place the Connection Plate at the top of Frame Board and onto the header.

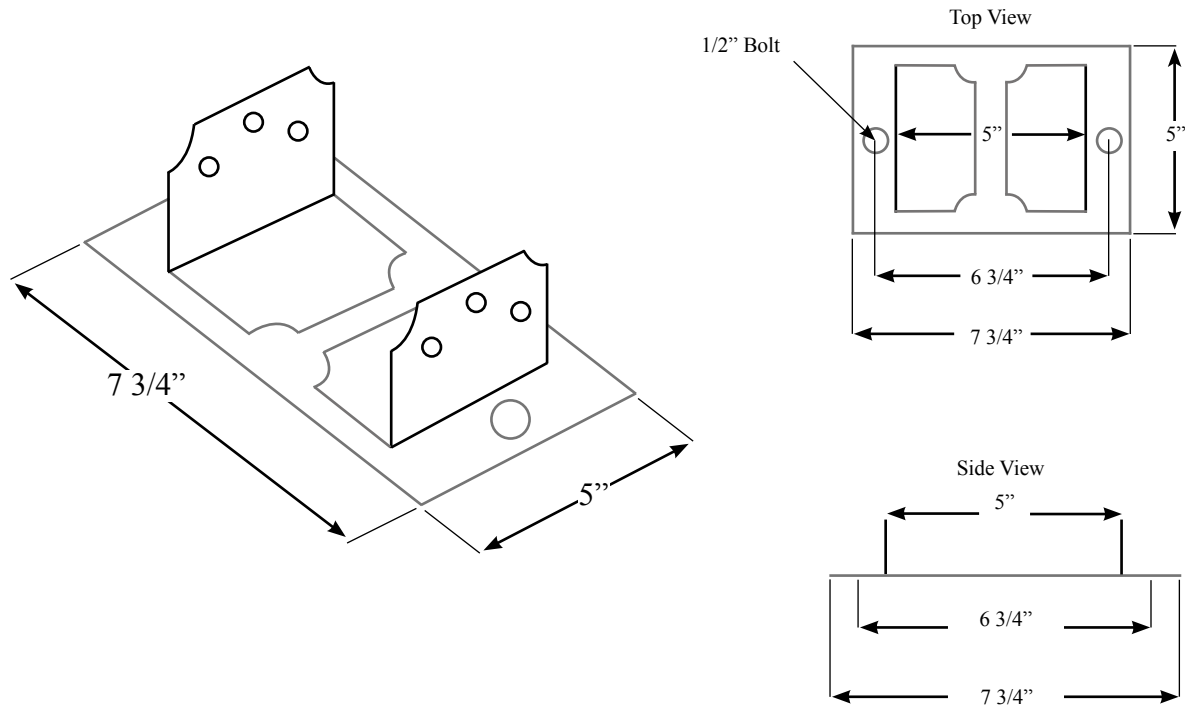


- Attach using 1.1/2" Black Head Screws.
-Install second Plate. As Shown.

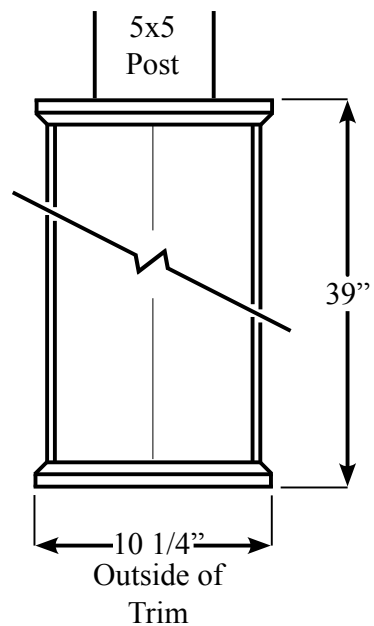
Post & Bracket Details

Drawing is not to scale.

Bracket Detail



Post and Superior Detail



Imagine Your Possibilities...

