

4.35m x 3.69m (14' x 12') WOOD ROOM w/LOUVERED ROOF

Installation and Operating Instructions – YM12800



HEIGHT:
2.5m / 8'3"

IMPORTANT, RETAIN FOR FUTURE REFERENCE: READ CAREFULLY

Revised 09-20-2022

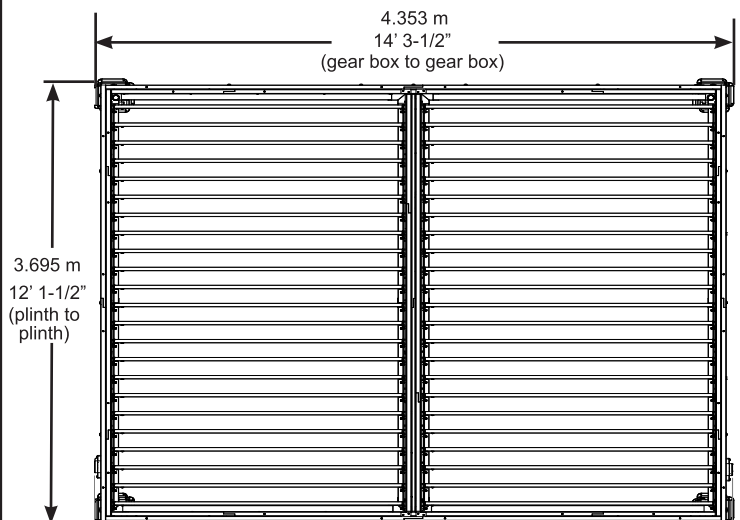
**YARDISTRY®**

Yardistry – North America
Toll Free Customer Support:
1.888.509.4382

info@yardistrystructures.com
www.yardistrystructures.com

Regular Hours: Mon - Fri, 8:30 am - 5:00
pm EST (excl. holidays)
(For extended hours see our website)
English and French Spoken

Patents Pending



Important Safety Notice!

Yardistry components are intended for privacy, decorative and ornamental use only.

Product is NOT INTENDED for the following:

- A safety barrier to prevent unsupervised access to pools, hot tubs, spas or ponds.
- As load bearing support for a building, structure, heavy objects or swings.
- Used in structures that trap wind, rain or snow that would create extra load on the product.

IMPORTANT! When preparing for high winds and/or winter conditions, turn the louvers to the open position (upright) then attach the Lock Out and Quick Link (Page 58). This will prevent the structure from blowing over due to high winds and the louvers from breaking due to snow and ice loads. Any accumulated snow must be removed from roof.

DO NOT climb or walk on roof for any reason.

Permanent structures may require a building permit. As the purchaser and or installer of this product you are advised to consult local planning, zoning and building inspection departments for guidance on applicable building codes and/or zoning requirements.

Wood is NOT flame retardant and will burn. Grills, fire pits and chimineas are a fire hazard if placed too close to a Yardistry structure. Consult user's manual of the grill, fire pit or chiminea for safe distances from combustible materials.

Wear gloves to avoid injury from possible sharp edges of individual elements before assembly.

During installation, follow all safety warnings provided with your tools and use OSHA approved safety glasses. Some structures may require two or more people to install safely.

Check for underground utilities before digging or driving stakes into the ground!

During assembly it is important to closely follow the instructions. Complete the assembly on a solid, level surface and follow the instructions to square up, level and anchor the structure. This will reduce the gaps at wood connections during assembly.

General Information

General Information: Wood components are manufactured with Cedar (C. Lanceolata) which is protected with factory applied water-based stain. Knots, small checks (cracks) and weathering are naturally occurring and do not affect the strength of the product. Annual application of a water-based water repellent sealant or stain is important and will help reduce weathering and checks.

www.yardistrystructures.com

Questions?

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Limited Warranty

Yardistry warrants that this product is free from defect in materials and workmanship for a period of one (1) year from the original date of purchase. In addition, for any product with lumber, all lumber is warranted for five (5) years against rot and decay. This warranty applies to the original owner and registrant and is non-transferable.

Regular maintenance is required to assure the integrity of your product and is a requirement of the warranty. This warranty does not cover any inspection costs.

This Limited Warranty does not cover:

- Labour for replacement of any defective item(s);
- Incidental or consequential damages;
- Cosmetic defects which do not affect performance or integrity;
- Vandalism; improper use or installation; acts of nature, including but not limited to wind, storms, hail, floods, excessive water exposure;
- Minor twisting, warping, checking or any other natural occurring properties of wood that do not affect performance or integrity.

Yardistry products have been designed for safety and quality. Any modifications made to the original product could damage the structural integrity of the product leading to failure and possible injury. Yardistry cannot assume any responsibility for modified products. Furthermore, modification voids any and all warranties.

This product is warranted for RESIDENTIAL USE ONLY. Yardistry disclaims all other representations and warranties of any kind, express or implied.

This Warranty gives you specific legal rights. You may have other rights as well which vary from state to state or province to province. This warranty excludes all consequential damages, however, some states/provinces do not allow the limitation or exclusion of consequential damages, and therefore this limitation may not apply to you.

Instructions for Proper Maintenance

Your Yardistry structure is designed and constructed of quality materials. As with all outdoor products it will weather and wear. To maximize the enjoyment, safety and life of your structure it is important that you, the owner, properly maintain it.

HARDWARE:

- Check metal parts for rust. If found, sand and repaint using a non-lead paint complying with 16 CFR 1303.
- Inspect and tighten all hardware after completion of assembly; after first month of use; and then annually. Do not over-tighten as to cause crushing and splintering of wood.
- Check for sharp edges or protruding screw threads, add washers if required.

WOOD PARTS:

- Applying a water repellent or stain (water-based) on a yearly basis is important maintenance to maintain maximum life and performance of the product.
- Check all wood members for deterioration, structural damage and splintering. Sand down splinters and replace deteriorated wood members. As with all wood, some checking and small cracks in grain is normal
- Some gapping may occur at some wood connections.

Assembly Guides

Tools Required:

- | | | |
|------------------------------|------------------|-----------------------|
| • Tape Measure | • Hard Hat | • 6' Step Ladder x 3 |
| • Carpenters Level | • Safety Glasses | • Square |
| • Standard or Cordless Drill | • Adult Helper | • Ratchet |
| • Claw Hammer | • Safety Gloves | • 7/16" & 1/2" Socket |
| • 7/16" & 1/2" Wrench | | |

Symbols:

Throughout these instructions symbols are provided in the top, right-hand corner of the page.



- Use Help, where this is shown, 2, 3 or 4 people are required to safely complete this step. To avoid injury or damage to the assembly make sure to get some help.



- Use a measuring tape to assure proper location



- Pre-drill a pilot hole before fastening screw or lag to prevent splitting of wood.

If you dispose of your Yardistry structure: Please disassemble and dispose of your unit so that it does not create any unreasonable hazards at the time it is discarded. Be sure to follow your local waste ordinances.

Assembly Tips

Following are some helpful tips to make the assembly process smooth and efficient.

PRE-ASSEMBLIES:

(i.e. Post and Beam Assemblies, Roof Rafter Assembly, etc)

- Work on a raised, solid and flat surface such as, a table or saw horse.
- Keep all connections flush where shown in the instructions.
- When assembling the beams keep parts flat, straight and snug when connecting.

METAL PARTS:

- Louvered material may have sharp edges, wear safety gloves.
- Place louvered material on a non-abrasive surface before and after assembly as it can bend, dent and scratch easily.

WINTER AND HIGH WIND PREPARATION:

- Turn the louvers to the open position (upright) then attach the Lock Out and Quick Link (Page 62). This will prevent the structure from being blown over due to high winds and the louvers from breaking due to snow and ice loads.
- Any accumulated snow must be removed from roof.

Sealant Application Tips, Warning and First Aid Information

SEALANT:

- All surfaces to be clean, dry, dust and grease free before application with temperatures above 5°C (41°F), no warmer than 35°C (95°F).
- Remove cap and cut a small piece off the nozzle for a small bead.
- Apply sealant in small beads and smooth as required.
- To smooth sealant into the joint use a glove covered finger, putty knife, etc. Smooth sealant to create a continuous water-tight seal, diverting water into the gutter with an unimpeded flow into the gutter drain corner.
- Clean excess with a cloth or paper towel before it skins over.
- An initial bond will set in approximately 20 minutes and fully set in 24 hours.

WARNING:

- CAUSES SERIOUS EYE AND SKIN IRRITATION. Always wear safety glasses and rubber gloves when using product.
- KEEP OUT OF REACH OF CHILDREN.
- Prolonged or repeated exposure MAY CAUSE ORGAN DAMAGE. Provide ample ventilation.

FIRST AID:

- If ingested, DO NOT INDUCE VOMITING. Seek immediate medical attention.
- Eye contact: immediately flush eyes with water for at least 15 minutes. Remove contact lenses if present.
- Skin contact; wash thoroughly with soap and water. If eye/skin irritation persists or respiratory symptoms occur or develop, seek medical attention.

Use of this product can expose you to chemicals including Methanol, which is known to the State of California to cause birth defects and other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

Dispose of contents and container in accordance with local regulations.

Permanent Installation Examples

Note: It is critically important you start with square, solid and level footings, concrete pad or deck to attach your Room.

We supply Post Mounts with this structure which gives you the flexibility to permanently install your structure to a pre-existing or new wood or concrete surface.

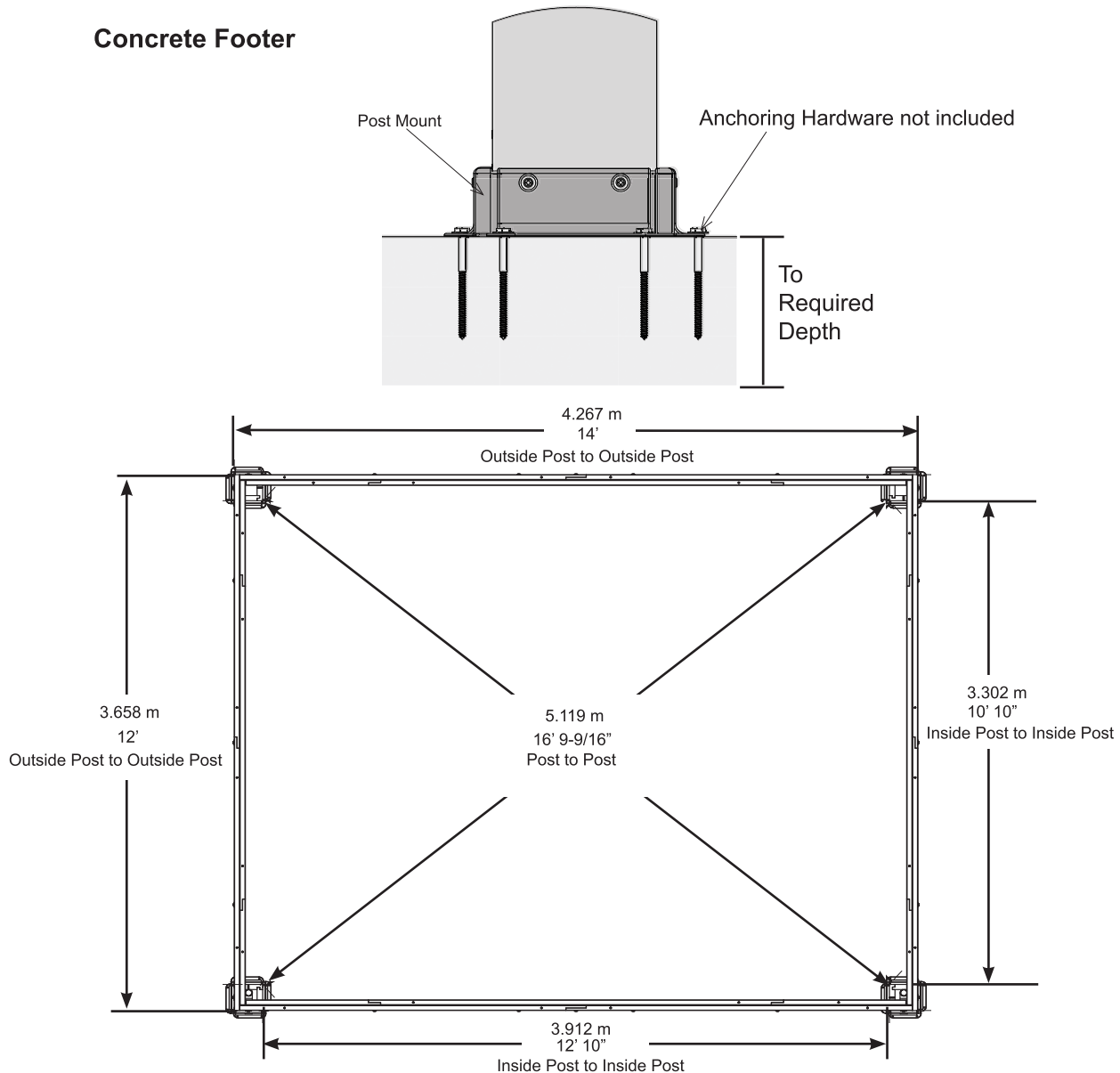
- The hardware to attach the Post Mount to the structure is included.
- The hardware to mount the structure permanently will need to be purchased separately at your local hardware store.

If you are mounting to concrete footers see below for the correct locations and placement. Please double check for possibility of any underground utilities such as gas, telephone, cable or sprinkler lines.

Following are some examples of how to mount the structure to wood or concrete surfaces.

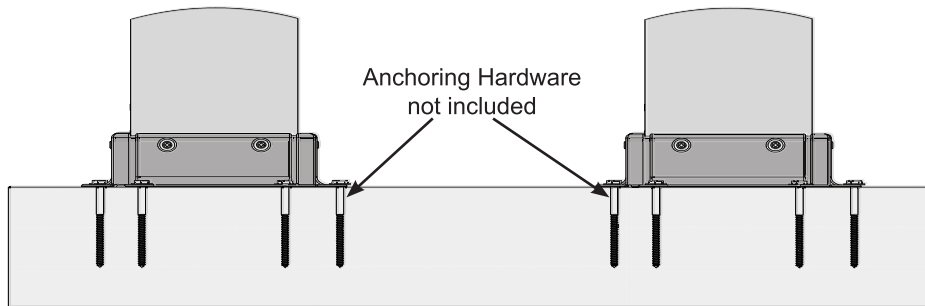
Refer to your local building and city codes, ordinances, neighbourhood covenants, or height restrictions regarding this type of structure for guidance on acceptable installation requirements.

Concrete Footer

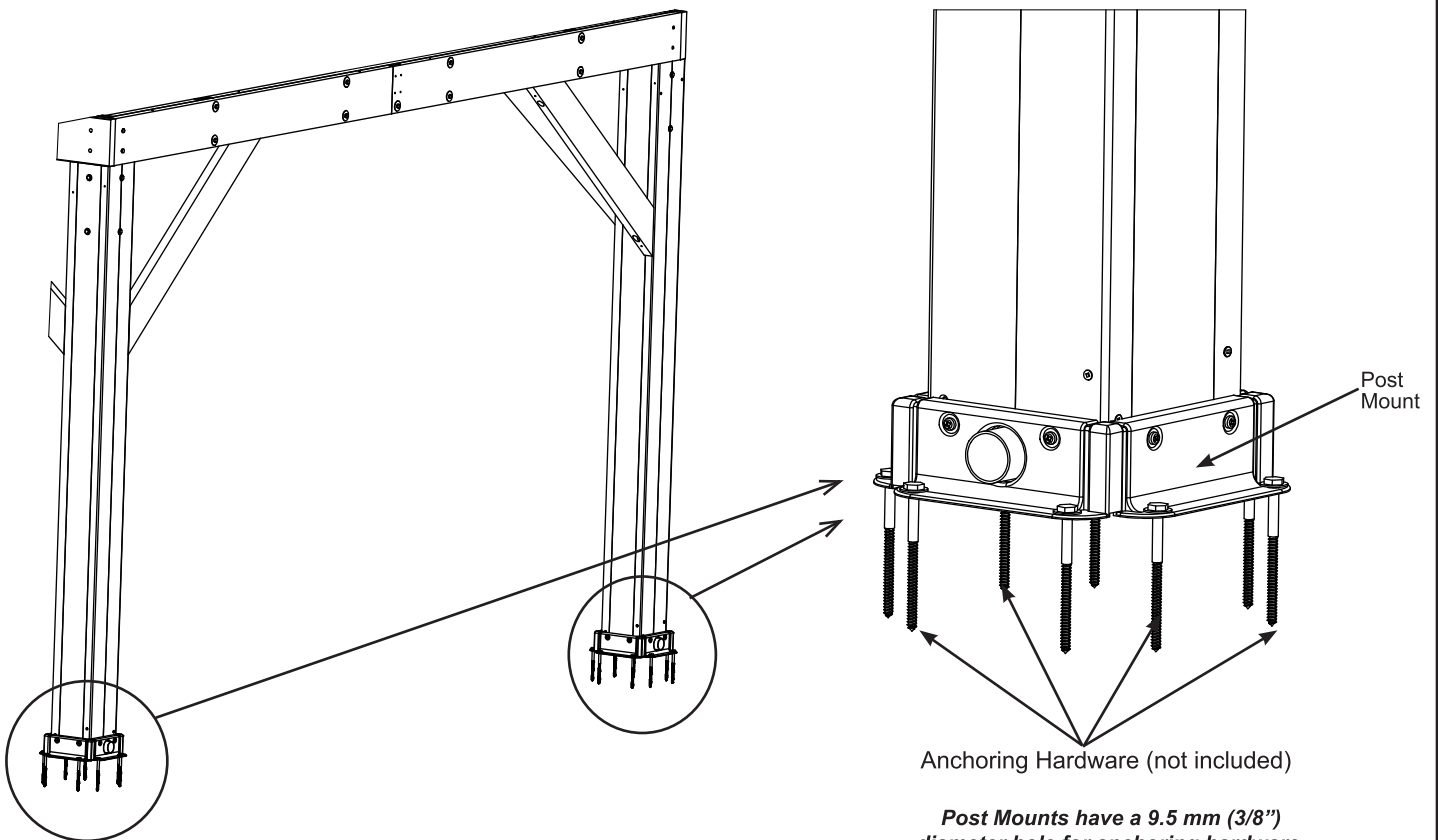
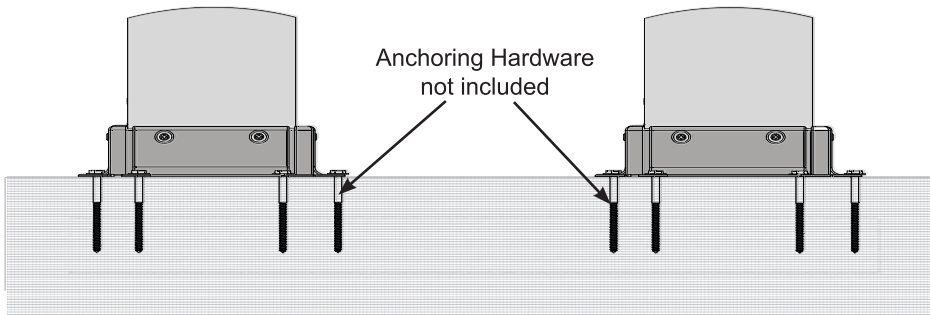


Permanent Installation Examples cont.

Concrete Patio [min. 4.572 m x 3.302 m (15' x 13')] with 15.24 cm (6") clearance on all sides

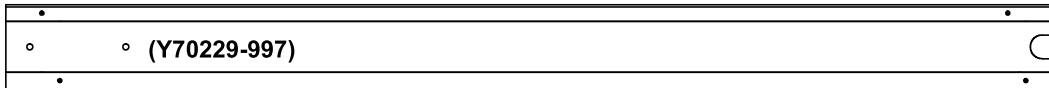


Wood Deck [min. 4.572 m x 3.302 m (15' x 13')] with 15.24 cm (6") clearance on all sides



Part Identification (Dimensions are approximate and are shown to assist in the identification of parts for assembly. Actual dimensions may be smaller or larger.)

1pc. (997) - Right Drain Post 2235.2mm (88") FSC



1pc. (998) - Left Drain Post 2235.2mm (88") FSC



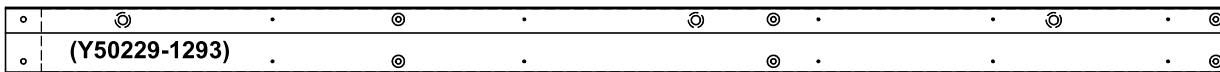
2pc. (962) - Post 2235.2mm (88") FSC



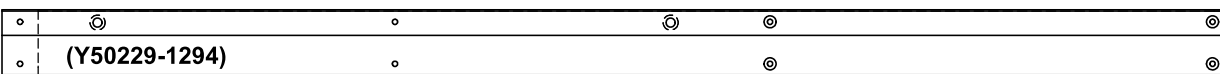
8pc. (996) - Gusset 1130.3mm (44½") FSC



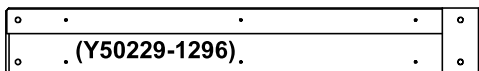
1pc. (1293) - Middle Long Beam A 2587.6mm (101 7/8") FSC



1pc. (1294) - Middle Long Beam 2587.6mm (101 7/8") FSC



1pc. (1296) - Middle Short Beam A 1000.2mm (39 3/8") FSC

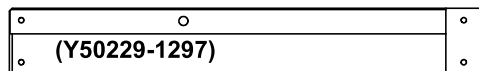


2pc. (995) - Post Block 101.6mm (4") FSC



(Y50229-995)

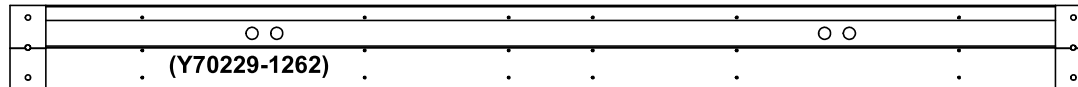
1pc. (1297) - Middle Short Beam 1000.2mm (39 3/8") FSC



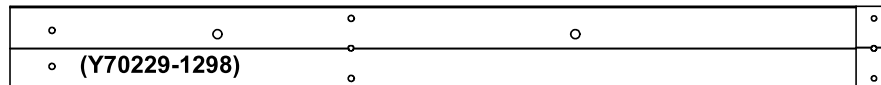
2pc. (1295) - Middle Beam Center 1793.9mm (70 5/8") FSC



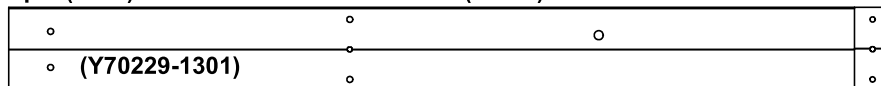
2pc. (1262) - Short Beam Centre 2289.1mm (90 1/8") FSC



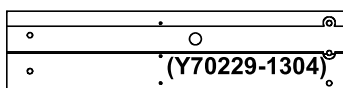
2pc. (1298) - Short Beam RT 1866.9mm (73 ½") FSC



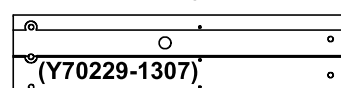
2pc. (1301) - Short Beam LT 1866.9mm (73 ½") FSC



2pc. (1304) - Left Short Beam 720.7mm (28 3/8") FSC



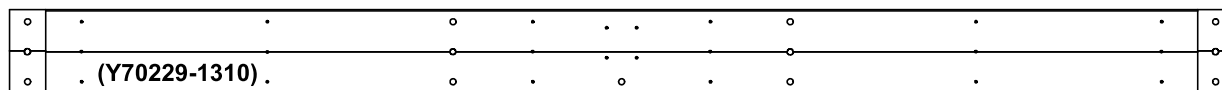
2pc. (1307) - Right Short Beam 720.7mm (28 3/8") FSC



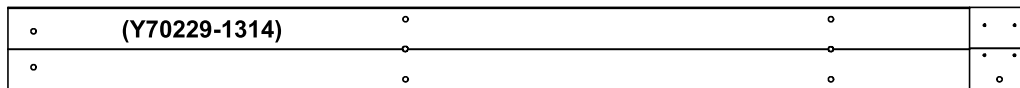
Part Identification (

Dimensions are approximate and are shown to assist in the identification of parts for assembly. Actual dimensions may be smaller or larger.

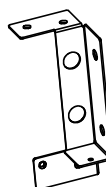
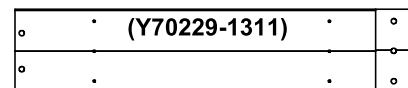
2pc. (1310) - Long Centre Beam 2591mm (102") FSC



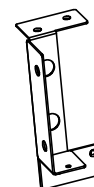
4pc. (1314) - Long Side Beam 2162.2mm (85 1/8") FSC



4pc. (1311) - Long End Side Beam 839.8mm (33 1/16") FSC

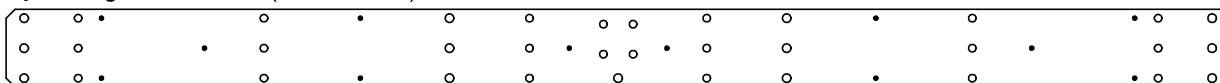


1pc. Left Centre Beam Bracket (Y70829-489) (2PK)

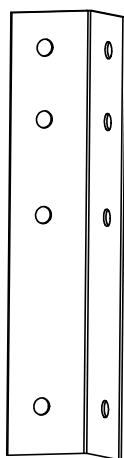
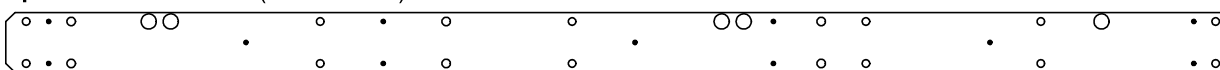


1pc. Right Centre Beam Bracket (Y70829-488) (2PK)

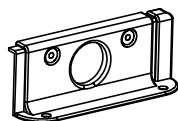
2pc. Long Beam Insert -(Y00429-486)



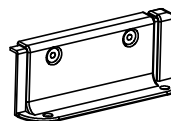
2pc. MID Beam Insert -(Y00429-487)



1pc. Post Beam Bracket (Y70829-304) (4PK)



1 pc. Post Mount Plinth (drain) -Black (Y70818-307) (2PK)



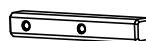
1 pc. Post Mount Plinth -Black (Y70818-306) (14PK)



1 pc. Louver End Plate -White (Y70801-551) (92 PK).



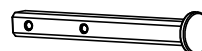
1 pc. Aluminum Axle Drive Pin (Y70890-308) (2PK)



1 pc. Aluminum Axle Standard Pin (Y70890-550) (80PK)

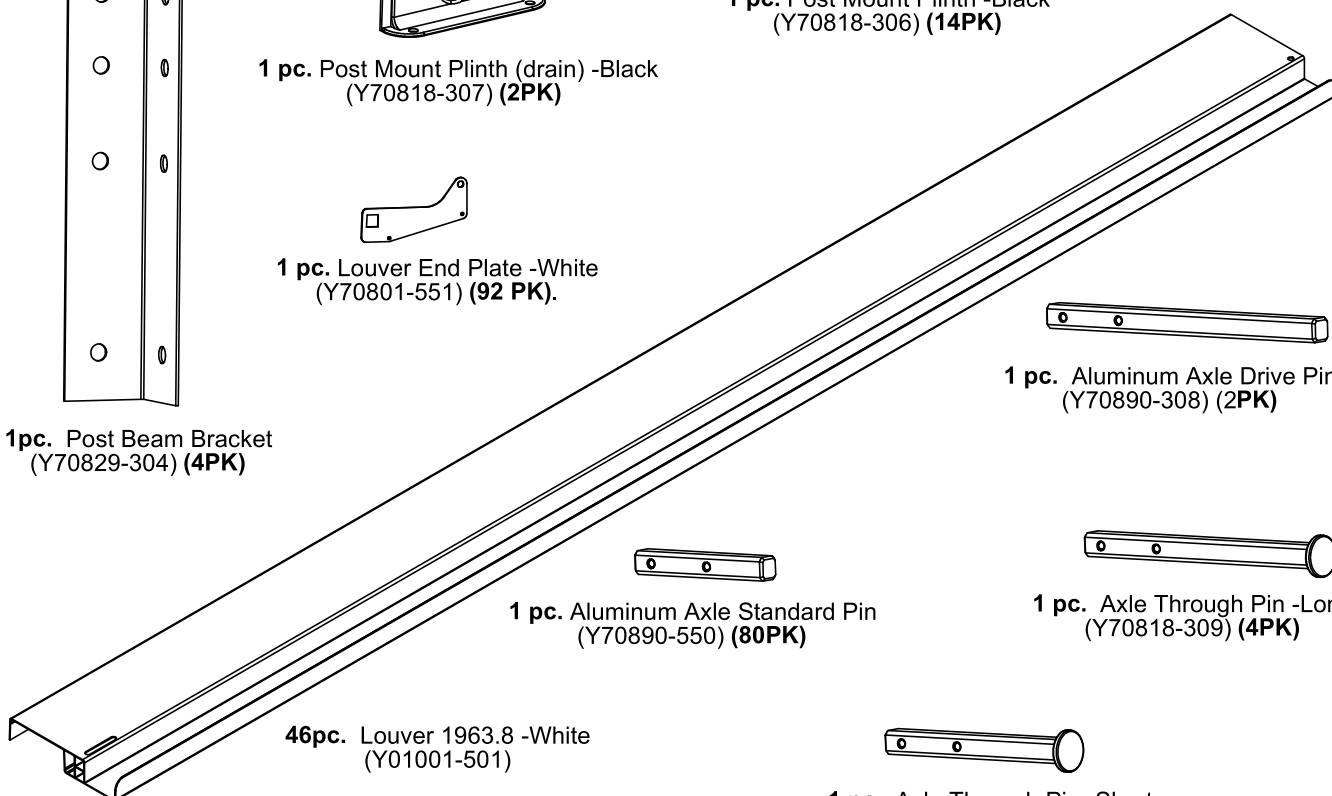


1 pc. Axle Through Pin -Long (Y70818-309) (4PK)

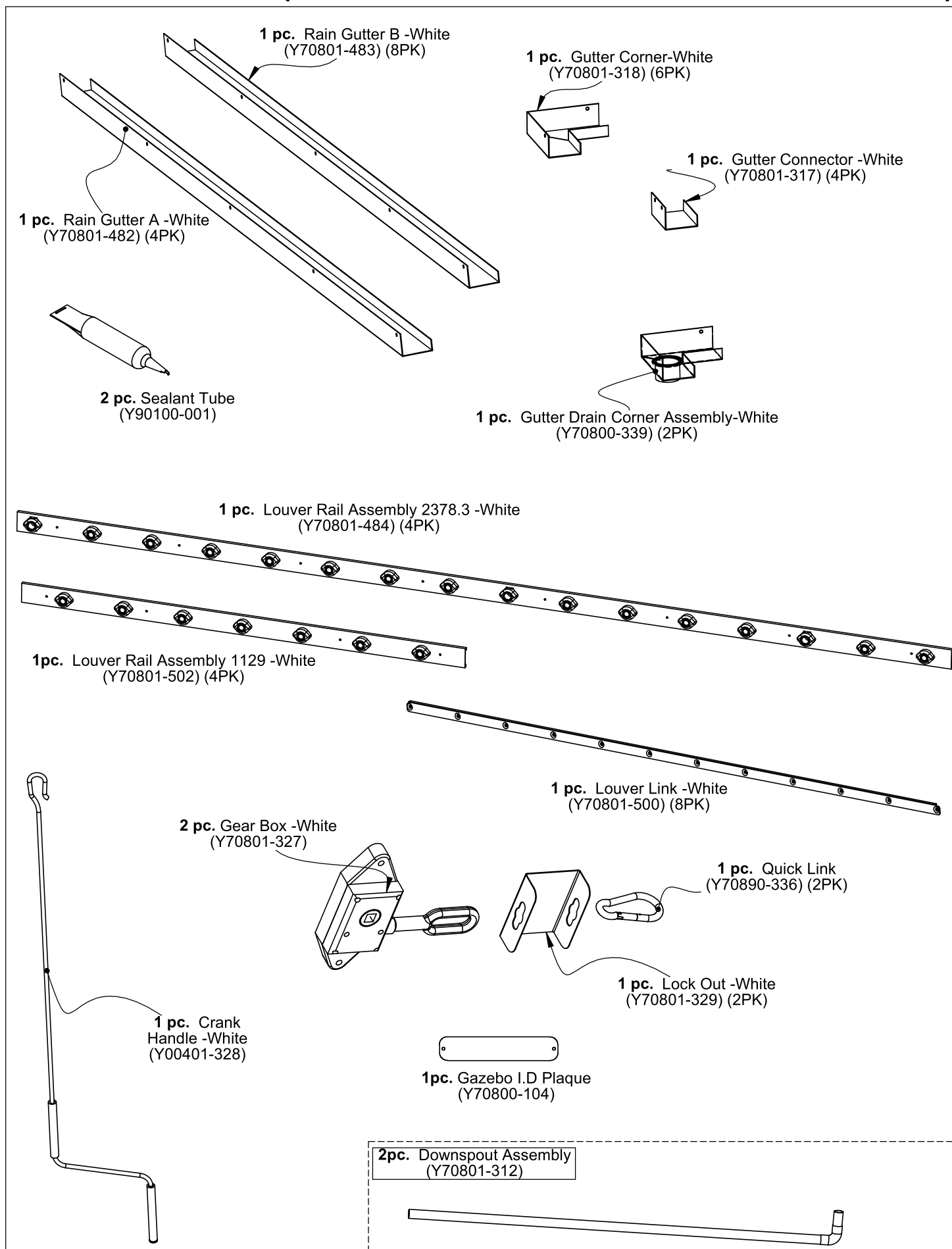


1 pc. Axle Through Pin -Short (Y70890-310) (6PK)

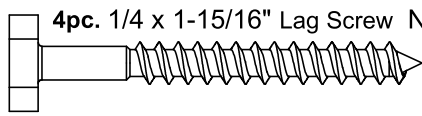
46pc. Louver 1963.8 -White (Y01001-501)



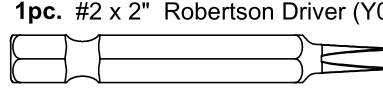
Part Identification (Dimensions are approximate and are shown to assist in the identification of parts for assembly. Actual dimensions may be smaller or larger.)



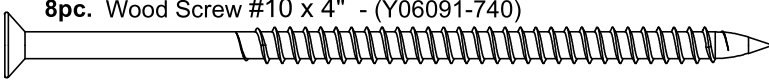
Hardware Identification (Dimensions are approximate and are shown to assist in the identification of parts for assembly. Actual dimensions may be smaller or larger.)



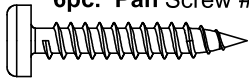
4pc. 1/4 x 1-15/16" Lag Screw No.12 Shank - (Y06201-219)



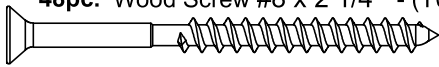
1pc. #2 x 2" Robertson Driver (Y00400-005)



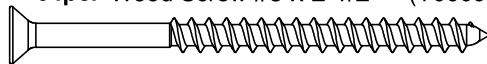
8pc. Wood Screw #10 x 4" - (Y06091-740)



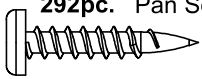
6pc. Pan Screw #10 x 1-1/4" - (Y06491-711)



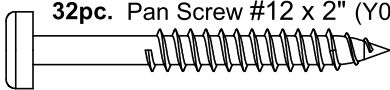
48pc. Wood Screw #8 x 2 1/4" - (Y06091-521)



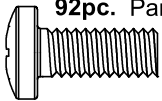
64pc. Wood Screw #8 x 2 1/2" - (Y06091-522)



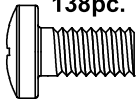
292pc. Pan Screw #8 x 1" (Y06401-510)



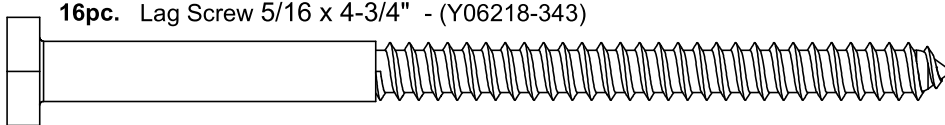
32pc. Pan Screw #12 x 2" (Y06418-620)



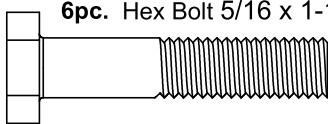
92pc. Pan Bolt 1/4 x 5/8" (Y07401-208)



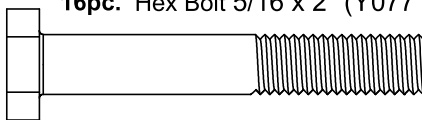
138pc. Pan Bolt 1/4 x 1/2" (Y07401-202)



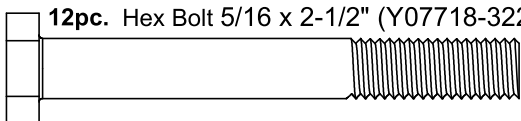
16pc. Lag Screw 5/16 x 4-3/4" - (Y06218-343)



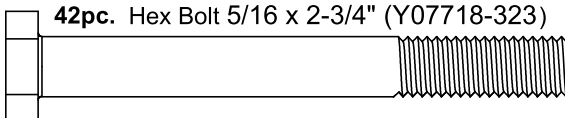
6pc. Hex Bolt 5/16 x 1-1/2" - (Y07718-312)



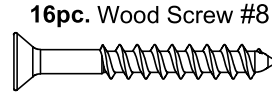
16pc. Hex Bolt 5/16 x 2" (Y07718-320)



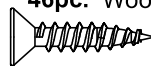
12pc. Hex Bolt 5/16 x 2-1/2" (Y07718-322)



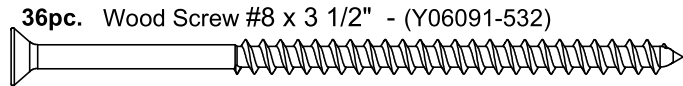
42pc. Hex Bolt 5/16 x 2-3/4" (Y07718-323)



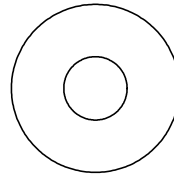
16pc. Wood Screw #8 x 1-1/4" (Y06091-511)



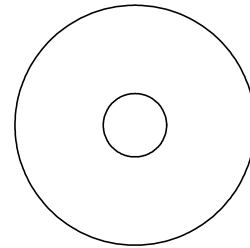
46pc. Wood Screw #7 x 3/4" (Y06091-003)



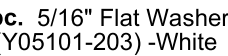
36pc. Wood Screw #8 x 3 1/2" - (Y06091-532)



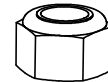
26pc. 5/16" Flat Washer (Y05118-203) -Black



92pc. 1/4-5/16 x 1-1/4" Large Washer (Y05118-311)



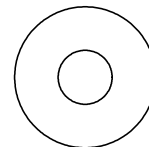
4pc. 5/16" Flat Washer (Y05101-203) -White



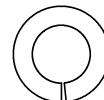
16pc. - 5/16" Lock Nut (Y08318-303)



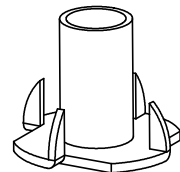
92pc. - 1/4" Lock Nut (Y08301-203)



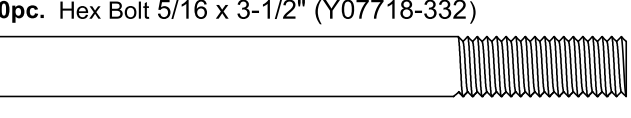
92pc. 1/4" Nylon Washer (Y05901-204) -White



70pc. 5/16" Lock Washer (Y05318-300)



70pc. 5/16 - T-Nut (Y08518-300)



10pc. Hex Bolt 5/16 x 3-1/2" (Y07718-332)



1pc. - 1/8" Drill Bit (Y00400-002)

Step 1: Inventory Parts - Read This Before Starting Assembly



- A.** This is the time for you to inventory all your hardware, wood and accessories, referencing the parts identification sheets. This will assist you with your assembly.
- Each step indicates which bolts and/or screws you will need for assembly, as well as any flat washers, lock washers, t-nuts or lock nuts.
- B.** If there are any missing or damaged pieces or you need assistance with assembly please contact the consumer relations department directly. Call us before going back to the store.

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support@yardistrystructures.com

- C.** Read the assembly manual completely, paying special attention to ANSI warnings; notes; and safety/maintenance information on pages 1 - 4.
- Follow the instructions in order.
 - This structure is designed to be assembled and installed ideally by four people, DO NOT attempt to install alone.
 - Consider the slope of elevation where you plan to install the structure. Also, check for gas, telephone, other utilities or sprinkler line locations prior to excavating any holes.
- D.** Before you discard your cartons fill out the form below.
- The carton I.D. stamp is located on the end of each carton.
 - Please retain this information for future reference. You will need this information if you contact the Consumer Relations Department.

PRODUCT NUMBER: YM12800

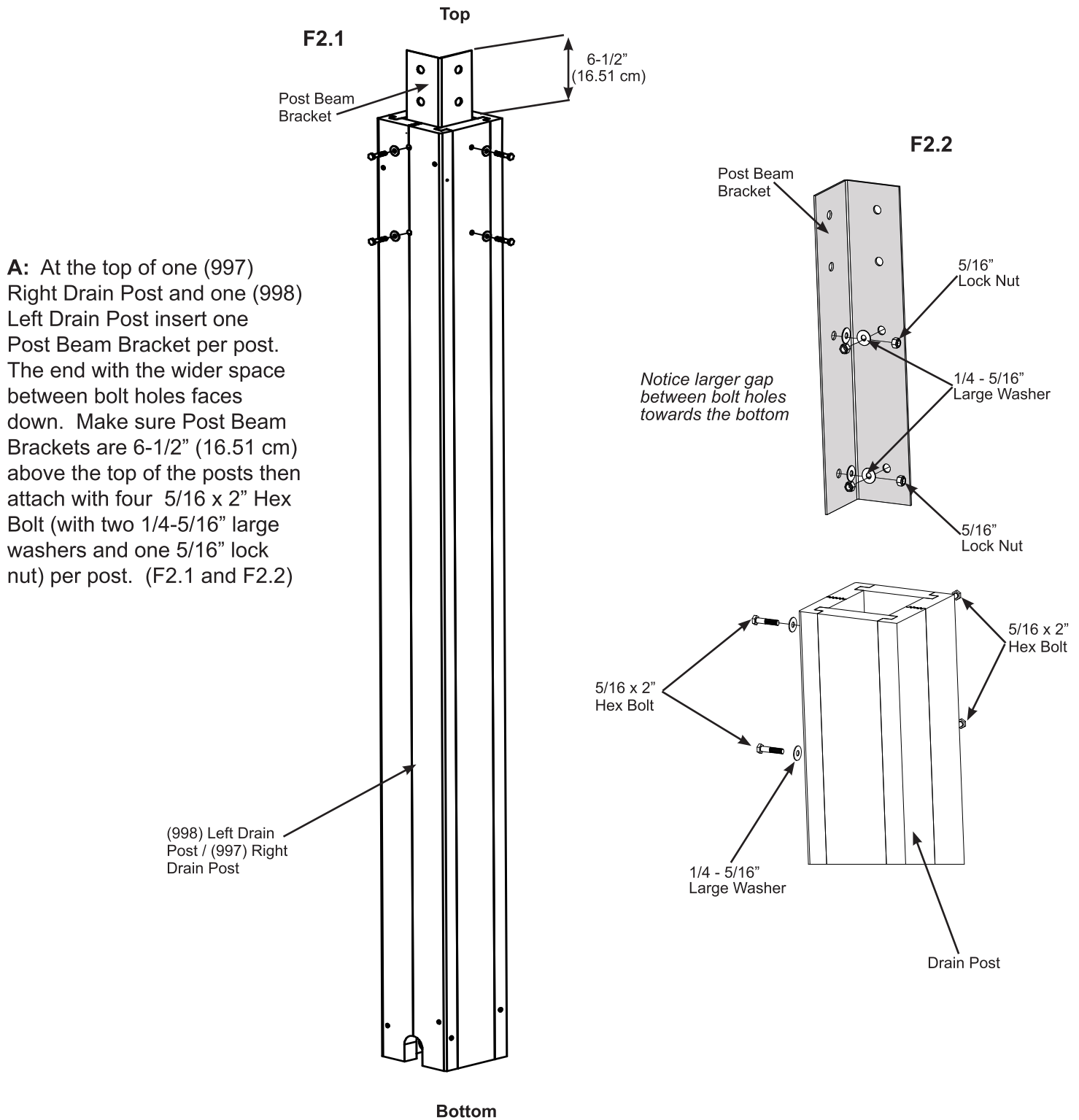
CARTON I.D. STAMP: _ _ _ _ _ (Box 1)

CARTON I.D. STAMP: _ _ _ _ _ (Box 2)

CARTON I.D. STAMP: _ _ _ _ _ (Box 3)

CARTON I.D. STAMP: _ _ _ _ _ (Box 4)

Step 2: Drain Post Assemblies Part 1



Wood Parts

- 1 x (997) Right Drain Post
- 1 x (998) Left Drain Post

Components

- 2 x Post Beam Bracket

Hardware

- 8 x 5/16 x 2" Hex Bolt (1/4-5/16" large washer x 2, 5/16" lock nut)

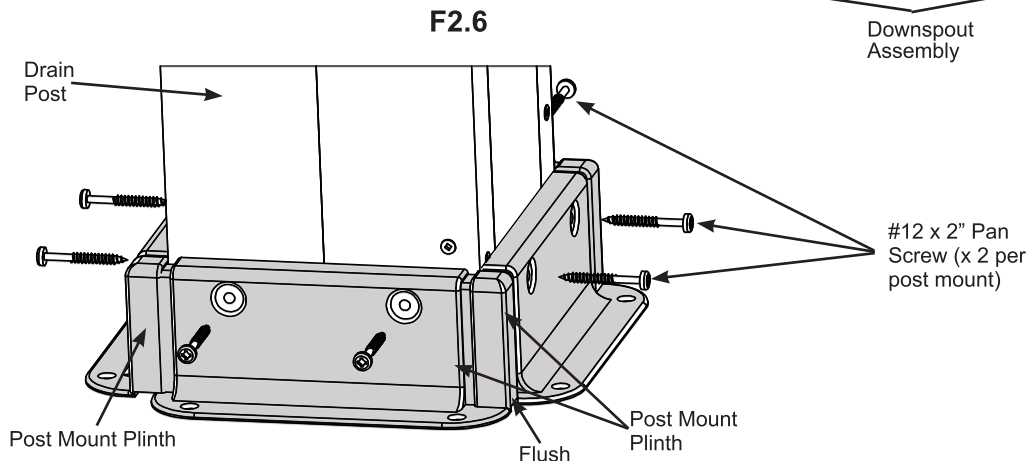
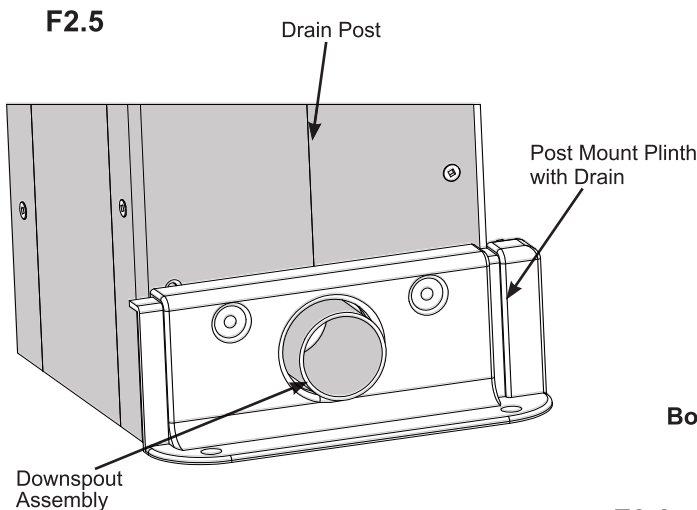
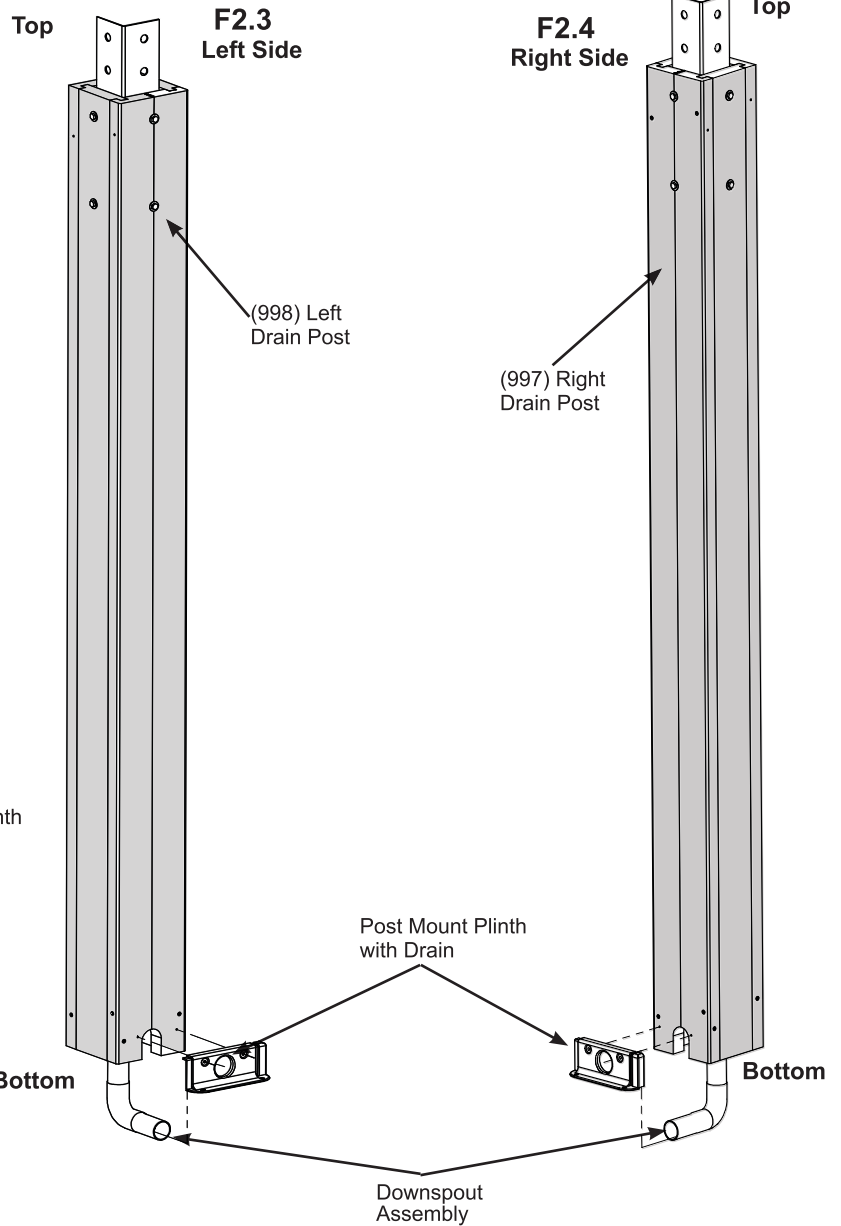
Step 2: Drain Post Assemblies Part 2



B: From the bottom, feed one Downspout Assembly up through each post. The elbow is at the bottom of the posts and fits tight in the bottom notch. (F2.3 and F2.4)

C: With a helper, stand posts up and place one Post Mount Plinth with Drain over the bottom of each Downspout Assembly. Make sure the post mount is flush to the bottom of the post. (F2.3, F2.4 and F2.5)

D: On the remaining sides of each post, place one Post Mount Plinth flush to the bottom of the posts. Each post mount should fit together in a tongue and groove style. Attach each Post Mount Plinth to posts with two #12 x 2" Pan Screws per post mount. (F2.6)



Components

2 x Downspout Assembly
2 x Post Mount Plinth with Drain
6 x Post Mount Plinth

Hardware

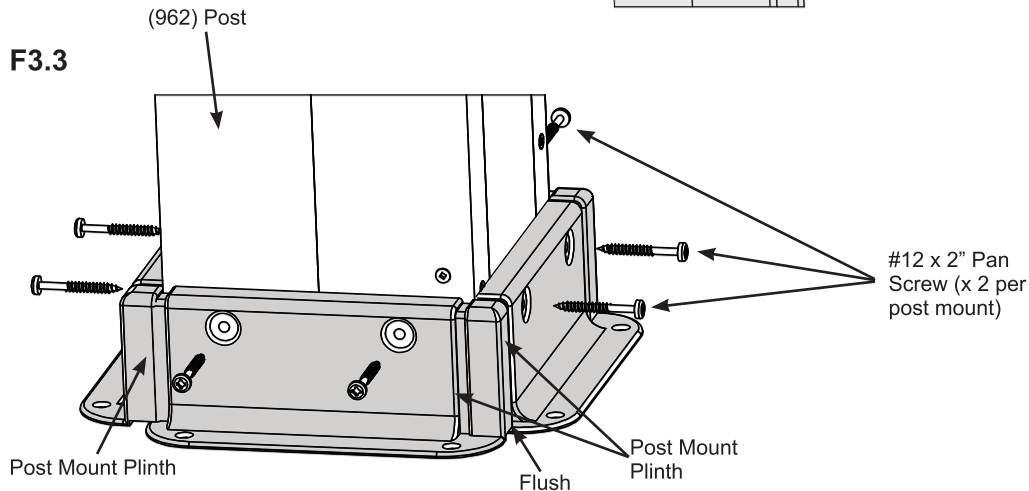
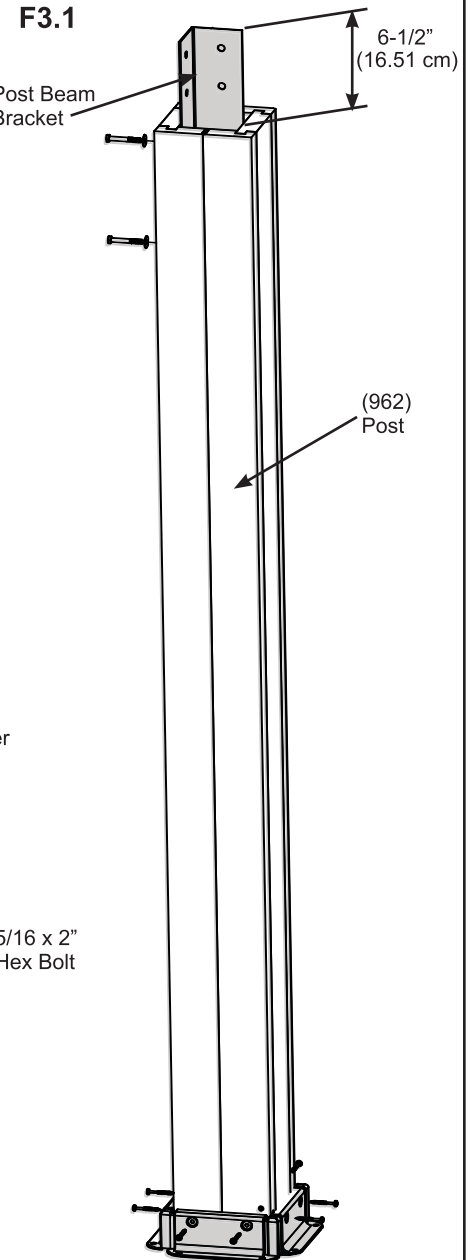
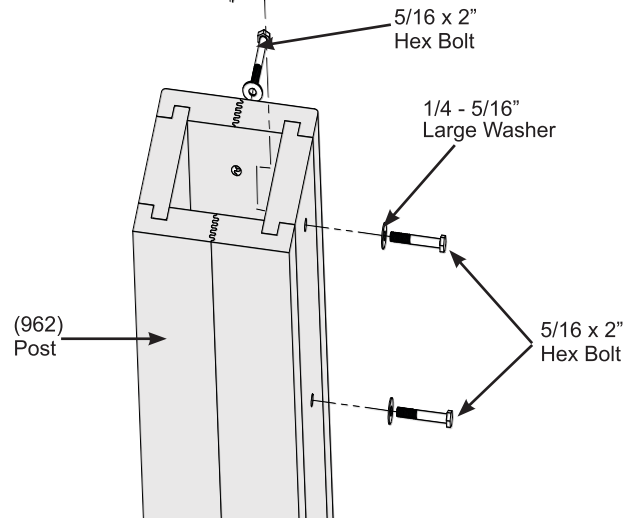
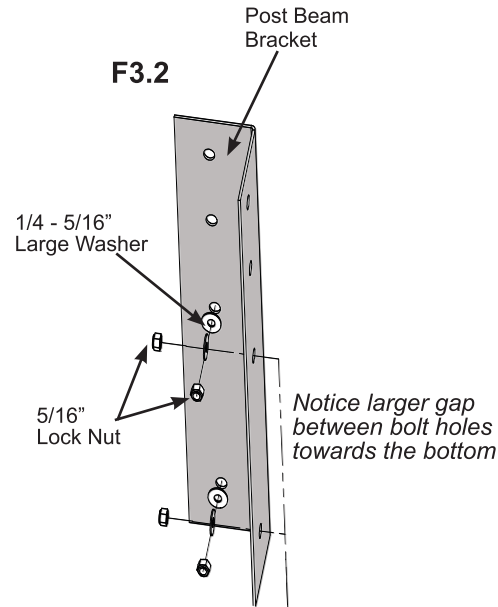
16 x #12 x 2" Pan Screw

Step 3: Post Assemblies



A: At the top of two (962) Posts insert one Post Beam Bracket. The end with the wider space between bolt holes faces down. Make sure Post Beam Brackets are 6-1/2" (16.51 cm) above the top of the posts then attach with four 5/16 x 2" Hex Bolt (with two 1/4-5/16" large washers and one 5/16" lock nut) per post. (F3.1 and F3.2)

B: On the bottom of each post, place four Post Mount Plinth flush to the bottom of the posts. Each post mount plinth should fit together in a tongue and groove style. Attach Post Mount Plinths to posts with two #12 x 2" Pan Screws per post mount plinth. (F3.1 and F3.3)



Wood Parts

2 x (962) Post

Components

8 x Post Mount Plinth
2 x Post Beam Bracket

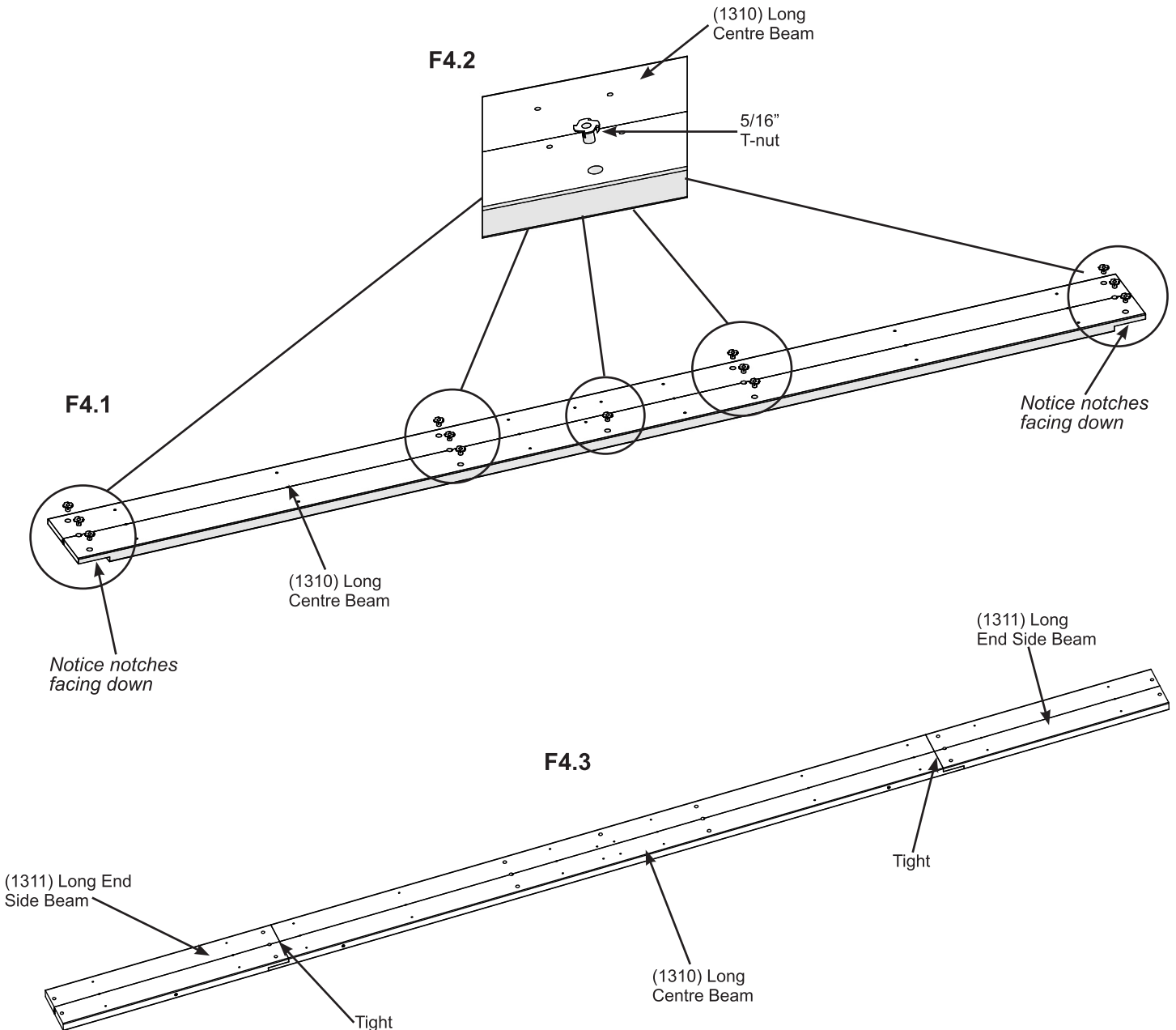
Hardware

16 x #12 x 2" Pan Screw
8 x 5/16 x 2" Hex Bolt
(1/4-5/16" large washer x 2, 5/16" lock nut)

Step 4: Long Beam Assembly Part 1

A: Layout one (1310) Long Centre Beam so the notched end faces down. Tap in (13) 5/16" T-nuts in (1310) Long Centre Beam as shown in F4.1 and F4.2.

B: Flip (1310) Long Centre Beam over so the t-nuts are facing down. Place one (1311) Long End Side Beam at each end of (1310) Long Centre Beam. (F4.3)



Wood Parts

2 x (1310) Long Centre Beam
4 x (1311) Long End Side Beam

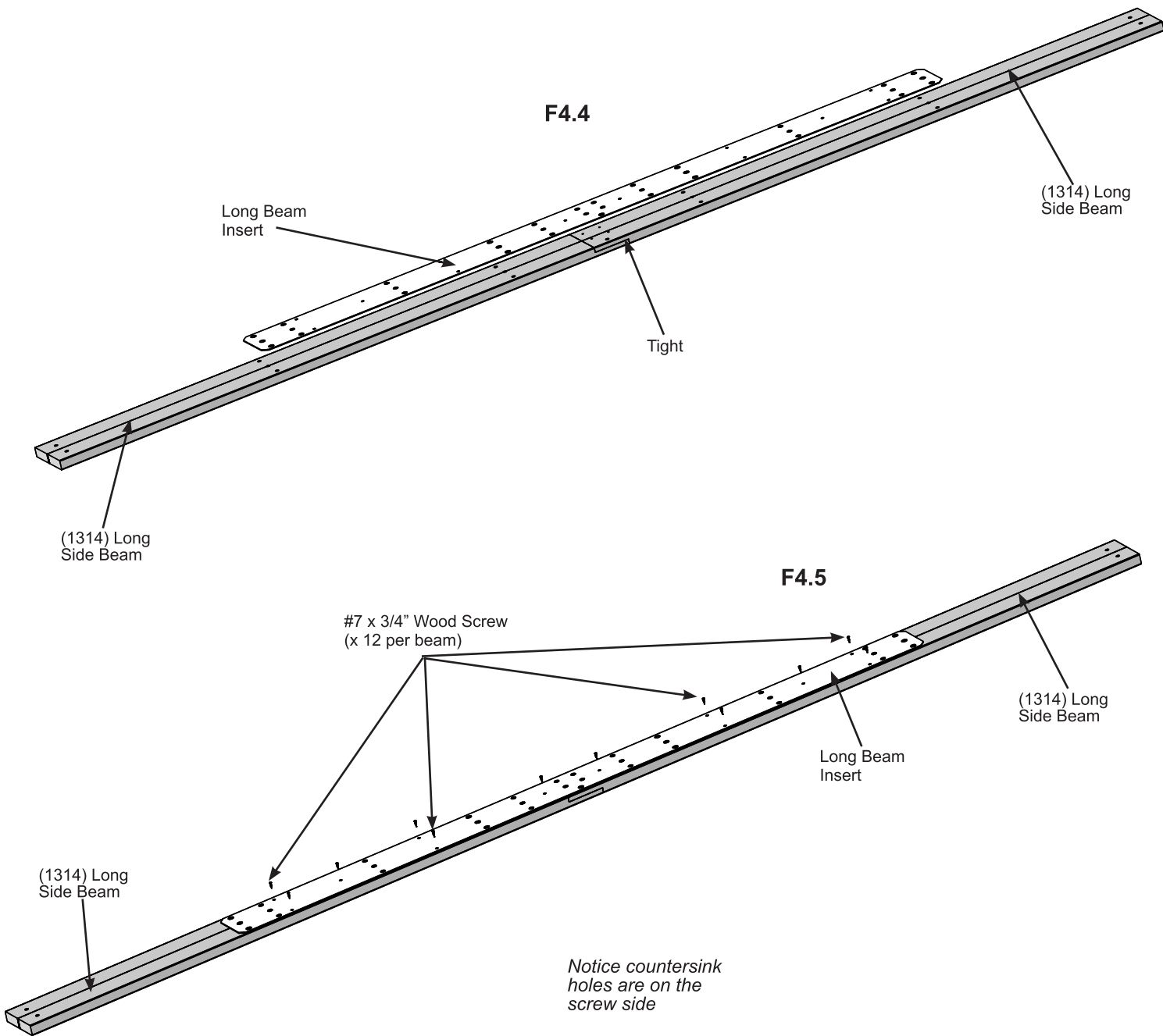
Hardware

26 x 5/16" T-Nut

Step 4: Long Beam Assembly

Part 2

C: Place two (1314) Long Side Beams so the lap joints fit tight in the centre then place one Long Beam Insert over (1314) Long Side Beams so the holes line up. The countersink holes in the Long Beam Insert need to be up so the screw head sits flat along the surface after being installed. Attach Long Beam Insert to (1314) Long Side Beams with (12) #7 x 3/4" Wood Screws. (F4.4 and F4.5)



Wood Parts

4 x (1314) Long Side Beam

Components

2 x Long Beam Insert

Hardware

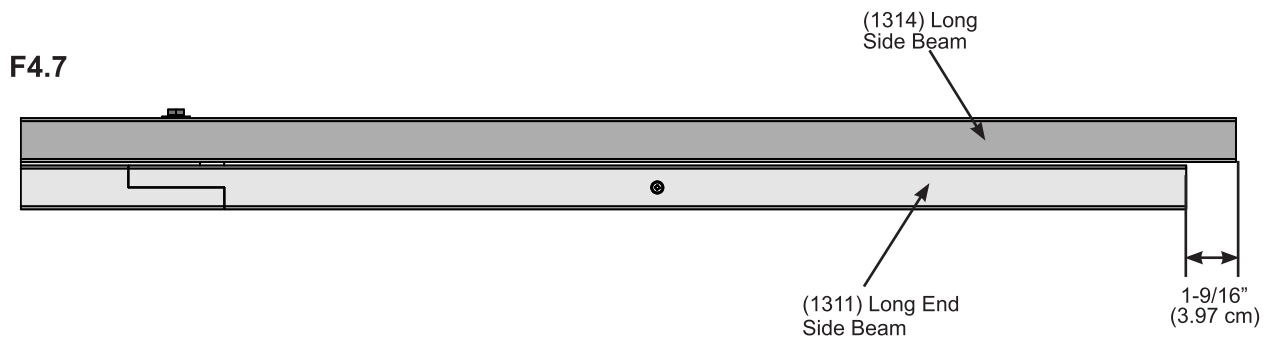
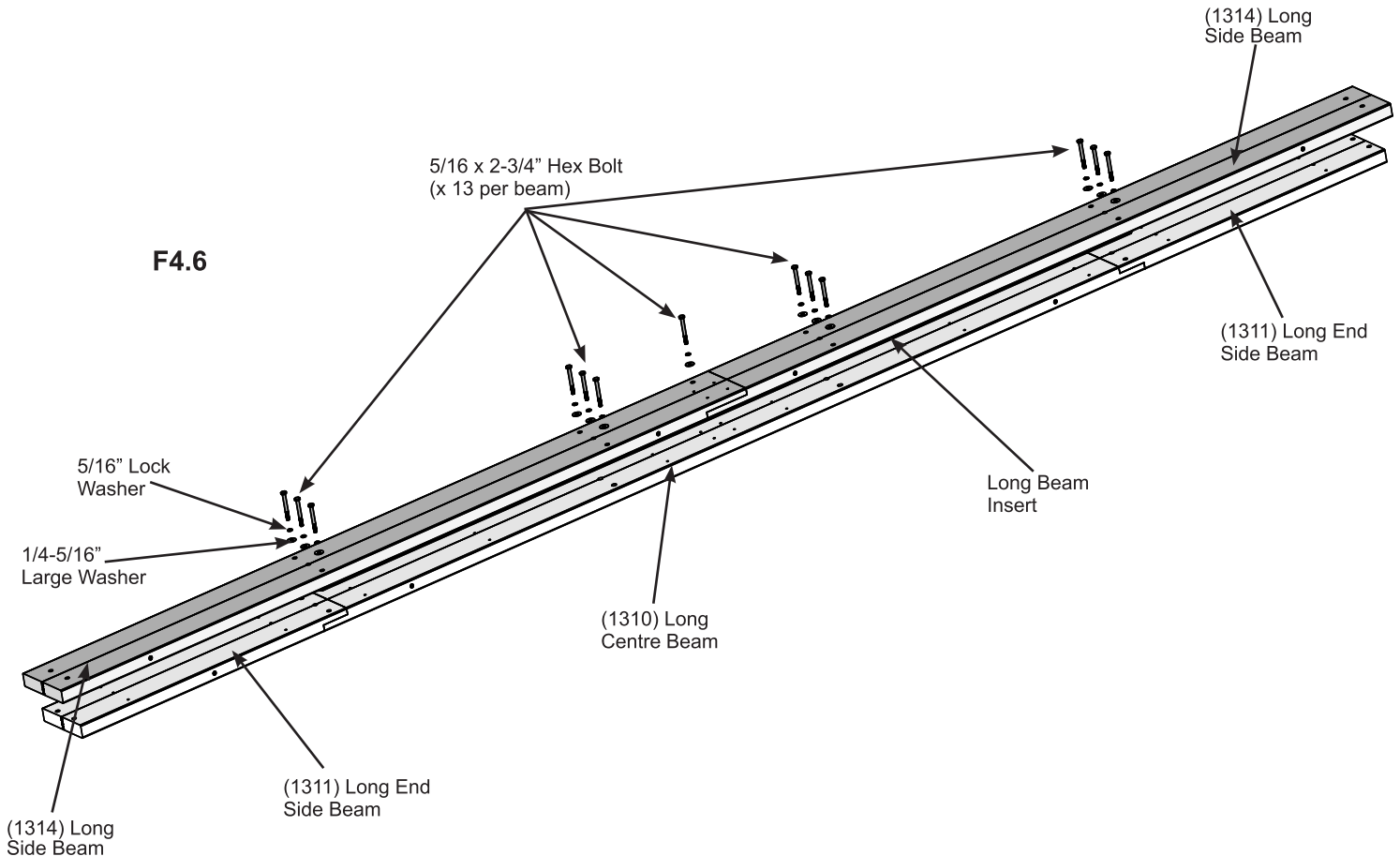
24 x #7 x 3/4" Wood Screw

Step 4: Long Beam Assembly Part 3



D: Lay Long Beam Insert with (1314) Long Side Beams on top of (1310) Long Centre Beam and (1311) Long End Side Beams. Make sure the bolt holes line up then loosely attach with (13) 5/16 x 2-3/4" Hex Bolts (with 5/16" lock washer and 1/4-5/16" large washer). The bolts will connect to the previously installed t-nuts. (F4.6)

E: Make sure both (1314) Long Side Beams overhang the (1311) Long End Side Beams by 1-9/16" (3.97 cm) then tighten the bolts. (F4.7)



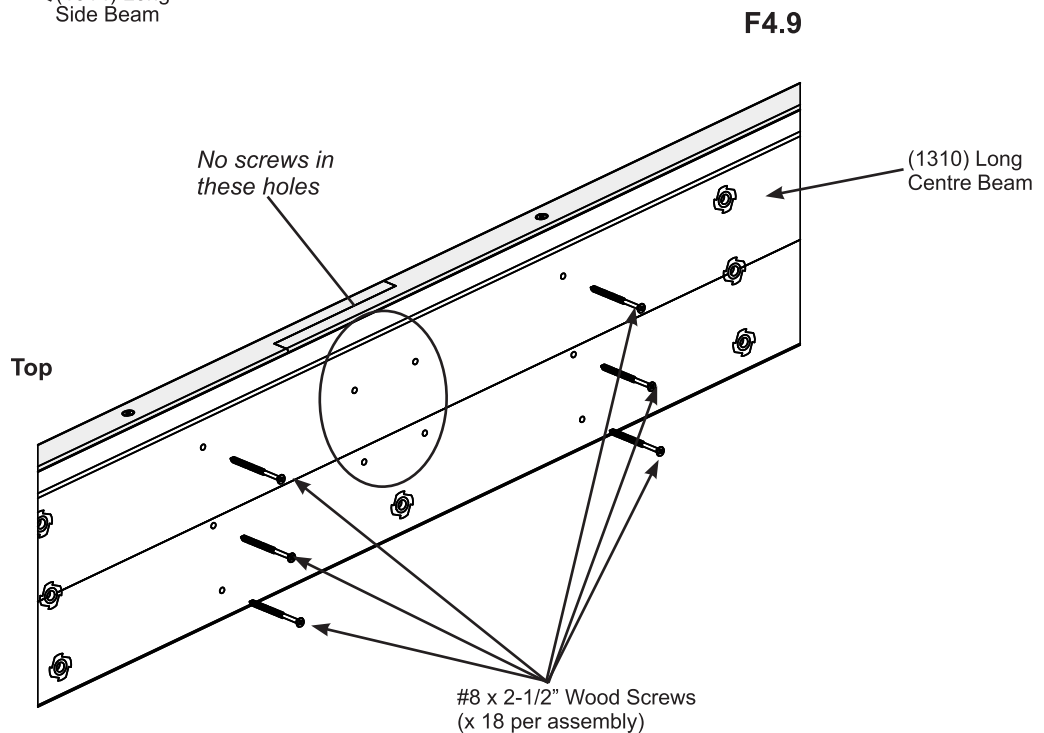
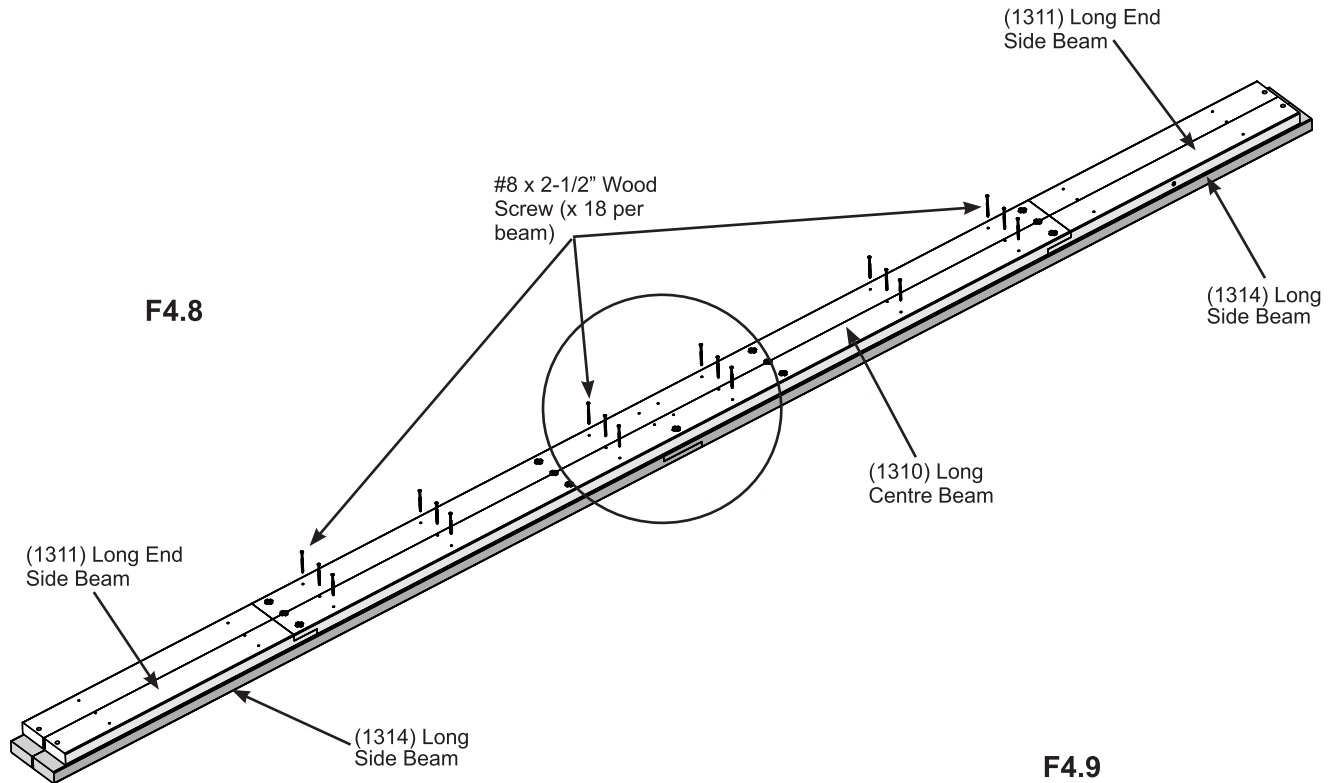
Hardware

26 x 5/16 x 2-3/4" Hex Bolt
(5/16" lock washer, 1/4-5/16" large washer)

Step 4: Long Beam Assembly Part 4

F: Flip the assembly over so the t-nuts face up then fasten assembly with (18) #8 x 2-1/2" Wood Screws through (1310) Long Centre Beam only. Do not install screws in the four centre pilot holes. (F4.8 and F4.9)

G: Repeat Steps A - F to make a second Long Beam Assembly.



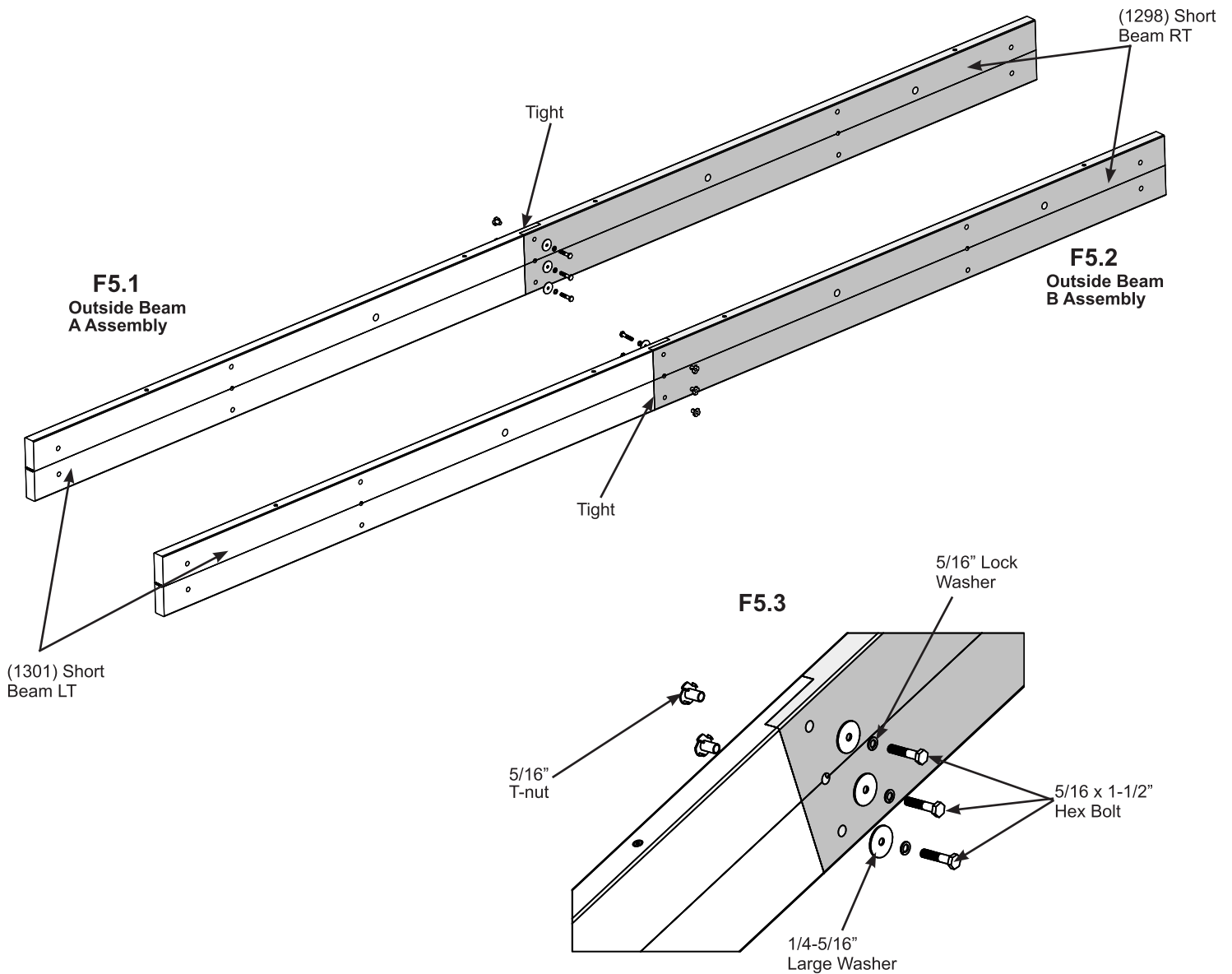
Hardware

36 x #8 x 2-1/2" Wood Screw

Step 5: Short Beam Assemblies

A: Connect one (1298) Short Beam RT and one (1301) Short Beam LT so the lap joints are tight. Install three 5/16" T-nuts in (1301) Short Beam LT then attach boards through (1298) Short Beam RT using three 5/16 x 1-1/2" Hex Bolts (with 5/16" lock washer, 1/4-5/16" large washer) as shown in F5.1 and F5.3. This creates one Outside Beam A Assembly.

B: Connect one (1298) Short Beam RT and one (1301) Short Beam LT so the lap joints are tight. Install three 5/16" T-nuts in (1298) Short Beam RT then attach boards through (1301) Short Beam LT using three 5/16 x 1-1/2" Hex Bolts (with 5/16" lock washer, 1/4-5/16" large washer) as shown in F5.2 and F5.3. This creates one Outside Beam B Assembly. Notice bolts are installed on opposite side to Outside Beam A Assembly.



Wood Parts

2 x (1301) Short Beam LT
2 x (1298) Short Beam RT

Hardware

6 x 5/16 x 1-1/2" Hex Bolt
(5/16" lock washer, 1/4-5/16" large washer, 5/16" t-nut)

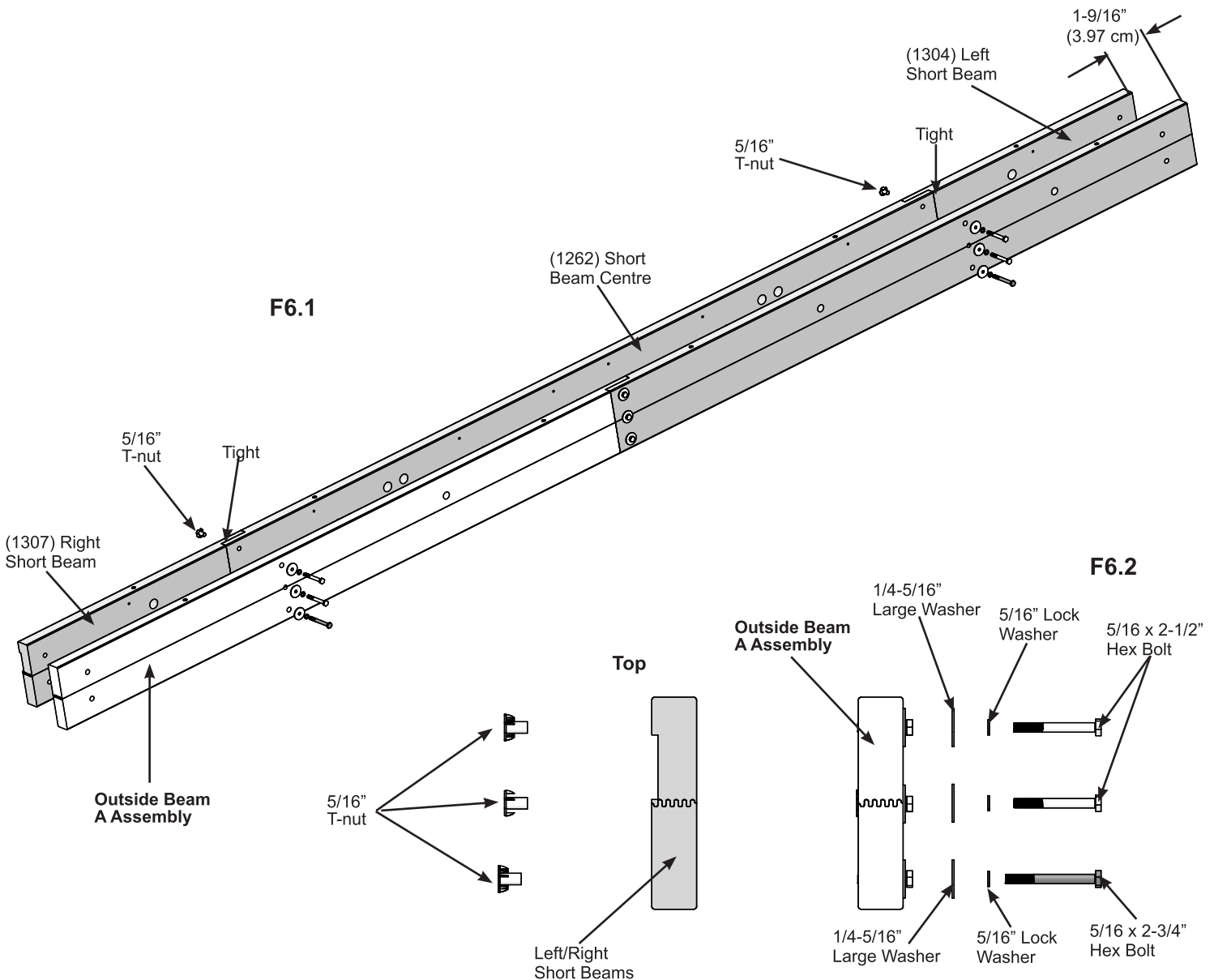
Step 6: Short Beam A Assembly



A: Connect one (1307) Right Short Beam and one (1304) Left Short Beam to each end of one (1262) Short Beam Centre so the lap joints are tight. Install three 5/16" T-nuts in (1307) Right Short Beam and (1304) Left Short Beam. Lay flat so the t-nuts are down. (F6.1)

B: Place Outside Beam A Assembly on top of (1307) Right Short Beam, (1304) Left Short Beam and (1262) Short Beam Centre, bolt heads facing out. Make sure holes line up then loosely attach with two 5/16 x 2-3/4" Hex Bolts (with 5/16" lock washer and 1/4-5/16" large washer) in the bottom holes and four 5/16 x 2-1/2" Hex Bolts (with 5/16" lock washer and 1/4-5/16" large washer) in the top holes. (F6.1 and F6.2)

C: Make sure Outside Beam A Assembly overhangs (1307) Right Short Beam and (1304) Left Short Beam by 1-9/16" (3.97 cm) then tighten the bolts. (F6.1 and F6.2)



Wood Parts

- 1 x (1307) Right Short Beam
- 1 x (1304) Left Short Beam
- 1 x (1262) Short Beam Centre

Hardware

- 4 x 5/16 x 2-1/2" Hex Bolt
(5/16" lock washer, 1/4-5/16" large washer, 5/16" t-nuts)
- 2 x 5/16 x 2-3/4" Hex Bolt
(5/16" lock washer, 1/4-5/16" large washer, 5/16" t-nuts)

Step 7: Short Beam B Assembly

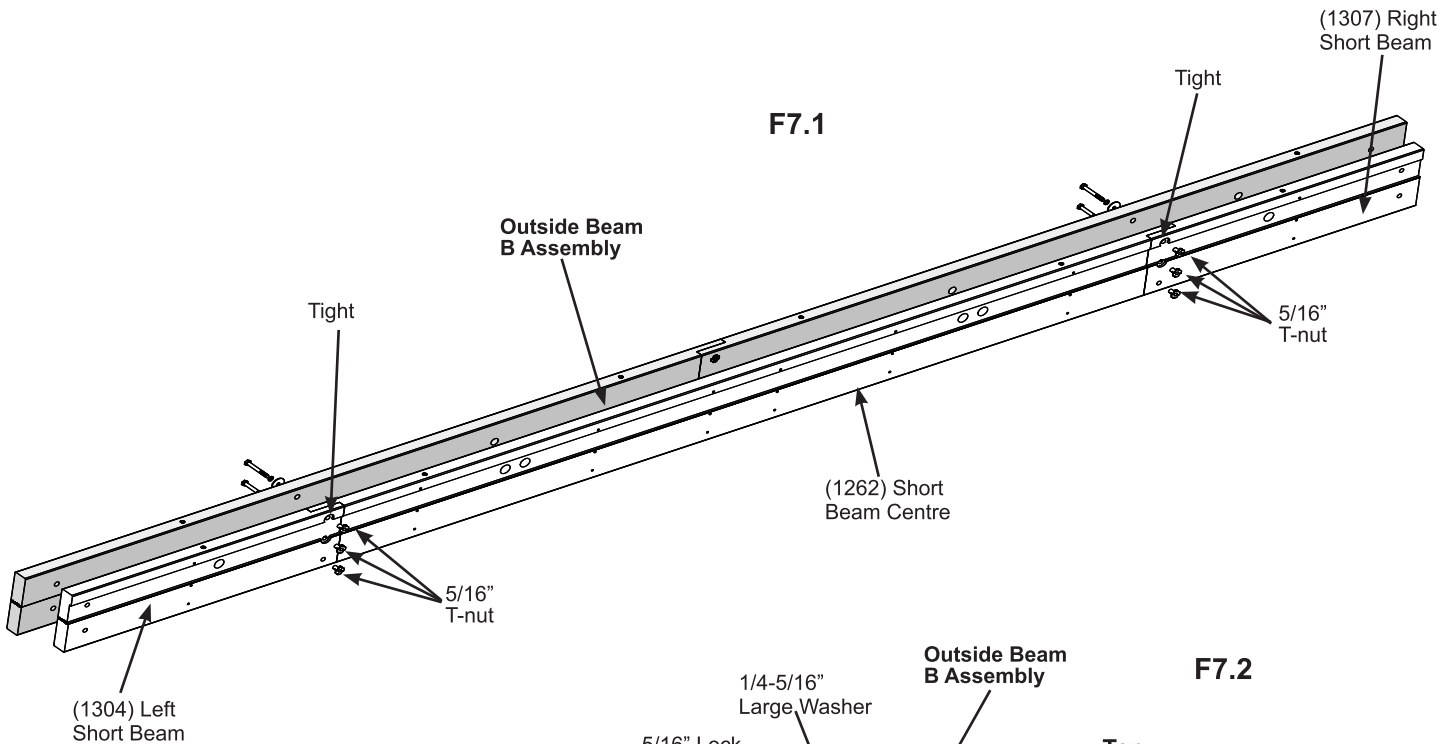


A: Connect one (1307) Right Short Beam and one (1304) Left Short Beam to each end of one (1262) Short Beam Centre so the lap joints are tight. Install three 5/16" T-nuts in (1307) Right Short Beam and (1304) Left Short Beam. Notice this is reverse to Step 6A. Lay flat so the t-nuts are down. (F7.1)

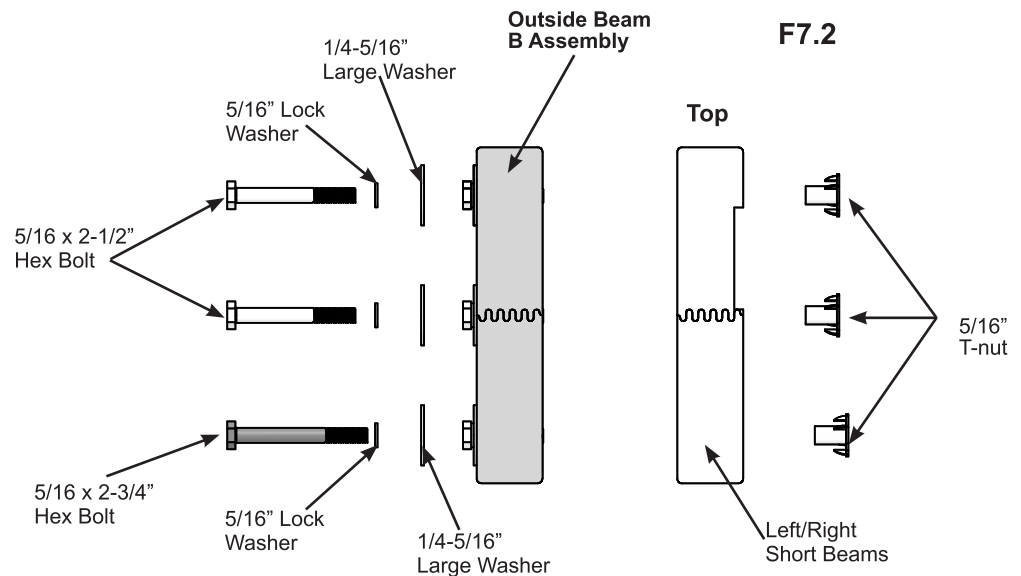
B: Place Outside Beam B Assembly on top of (1307) Right Short Beam, (1304) Left Short Beam and (1262) Short Beam Centre, bolt heads facing out. Make sure holes line up then loosely attach with two 5/16 x 2-3/4" Hex Bolts (with 5/16" lock washer and 1/4-5/16" large washer) in the bottom holes and four 5/16 x 2-1/2" Hex Bolts (with 5/16" lock washer and 1/4-5/16" large washer) in the top holes. (F7.1 and F7.2)

C: Make sure Outside Beam B Assembly overhangs (1307) Right Short Beam and (1304) Left Short Beam by 1-9/16" (3.97 cm), as done in Step 6C, then tighten the bolts. (F7.1 and F7.2)

F7.1



F7.2



Wood Parts

- 1 x (1307) Right Short Beam
- 1 x (1304) Left Short Beam
- 1 x (1262) Short Beam Centre

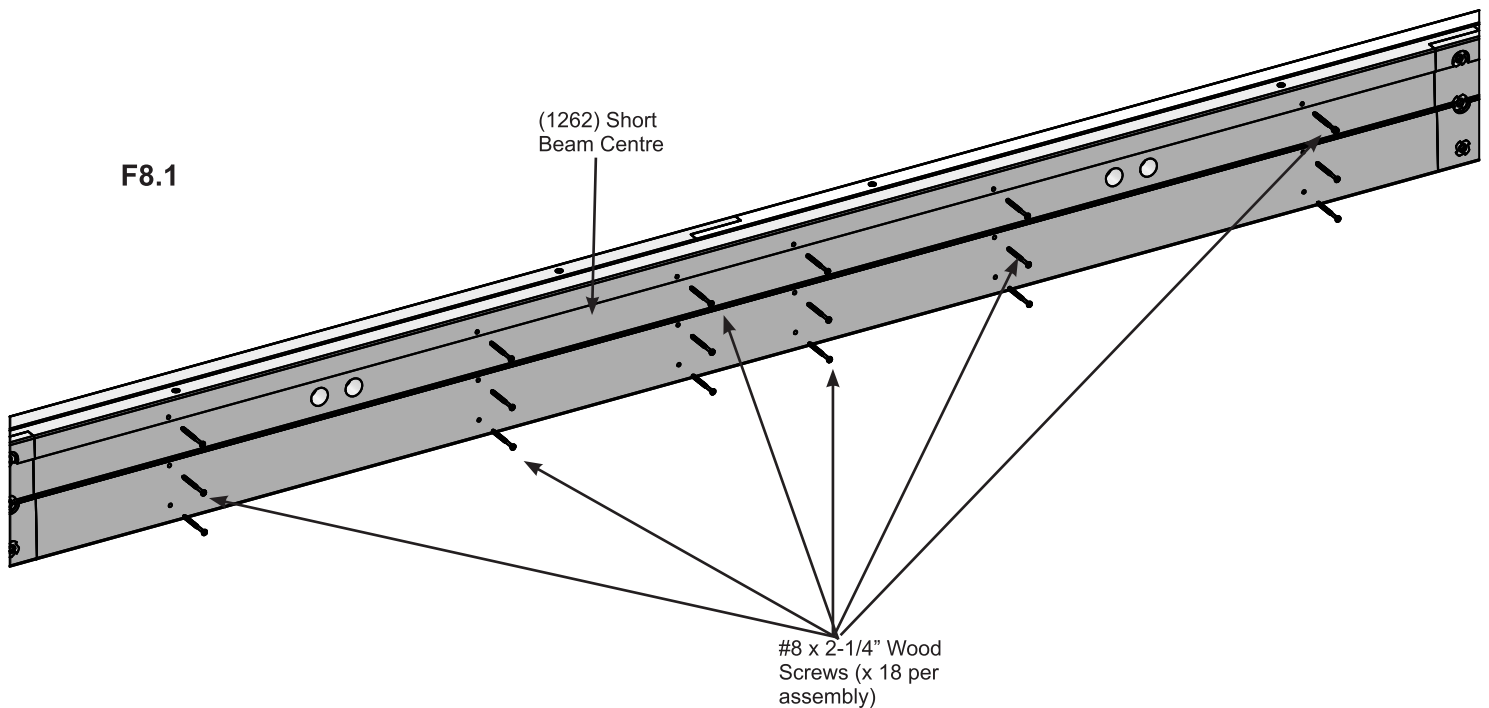
Hardware

- 4 x 5/16 x 2-1/2" Hex Bolt
(5/16" lock washer, 1/4-5/16" large washer, 5/16" t-nuts)
- 2 x 5/16 x 2-3/4" Hex Bolt
(5/16" lock washer, 1/4-5/16" large washer, 5/16" t-nuts)

Step 8: Short Beam A & B Final Assembly

A: Flip Short Beam A Assembly over so the t-nuts face up then fasten assembly with (18) #8 x 2-1/4" Wood Screws through (1262) Short Beam Centre only. (F8.1)

B: Flip Short Beam B Assembly over so the t-nuts face up then fasten assembly with (18) #8 x 2-1/4" Wood Screws through (1262) Short Beam Centre only. (F8.1)

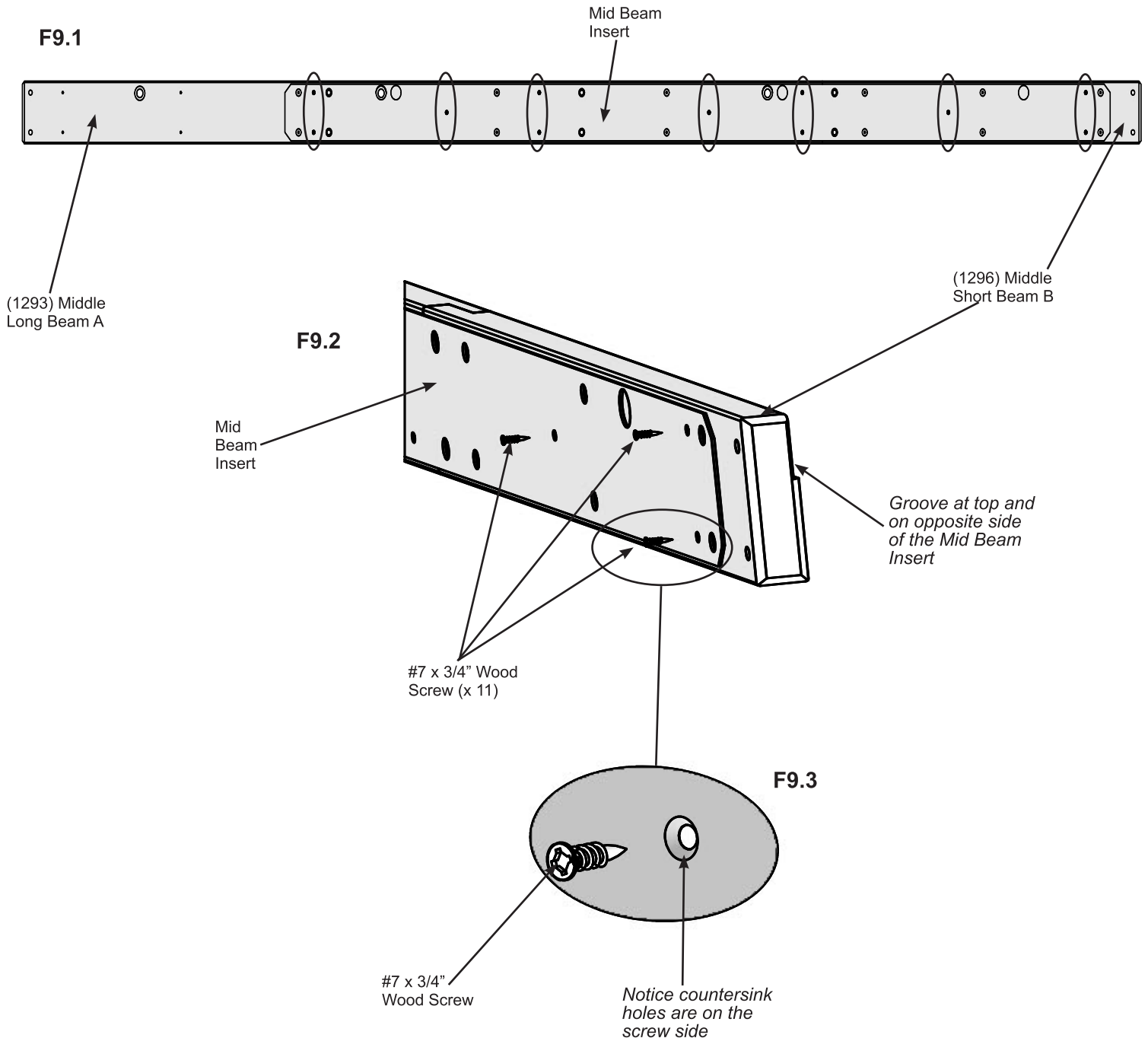


Hardware

36 x #8 x 2-1/4" Wood Screw

Step 9: Middle Beam Assembly Part 1

A: Connect (1293) Middle Long Beam A and (1296) Middle Short Beam A so the lap joints are tight and the groove is at the top. Place Mid Beam Insert on top of boards making sure the holes line up. The countersink holes in the Mid Beam Insert need to be up so the screw head sits flat along the surface after being installed. Attach Mid Beam Insert to (1293) Middle Long Beam A and (1296) Middle Short Beam A with (11) #7 x 3/4" Wood Screws. This will be the Middle Beam A Assembly (F9.1, F9.2 and F9.3)



Wood Parts

- 1 x (1293) Middle Long Beam A
- 1 x (1296) Middle Short Beam A

Components

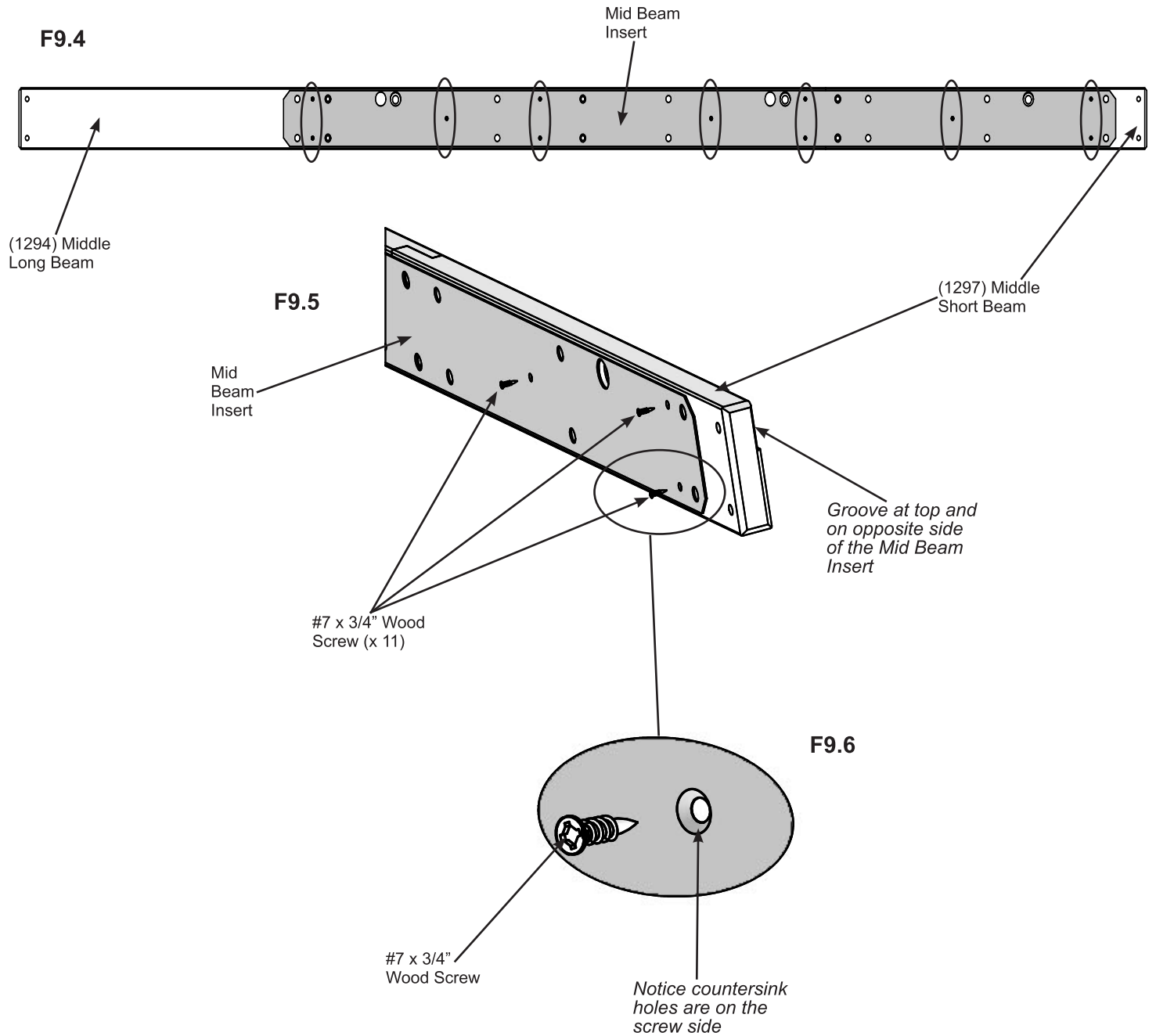
- 1 x Mid Beam Insert

Hardware

- 11 x #7 x 3/4" Wood Screw

Step 9: Middle Beam Assembly Part 2

B: Connect (1294) Middle Long Beam and (1297) Middle Short Beam so the lap joints are tight and the groove is at the top. Place Mid Beam Insert on top of boards making sure the holes line up. The countersink holes in the Mid Beam Insert need to be up so the screw head sits flat along the surface after being installed. Attach Mid Beam Insert to (1294) Middle Long Beam and (1297) Middle Short Beam with (11) #7 x 3/4" Wood Screws. This will be the Middle Beam B Assembly (F9.4, F9.5 and F9.6)



Wood Parts

- 1 x (1294) Middle Long Beam
- 1 x (1297) Middle Short Beam

Components

- 1 x Mid Beam Insert

Hardware

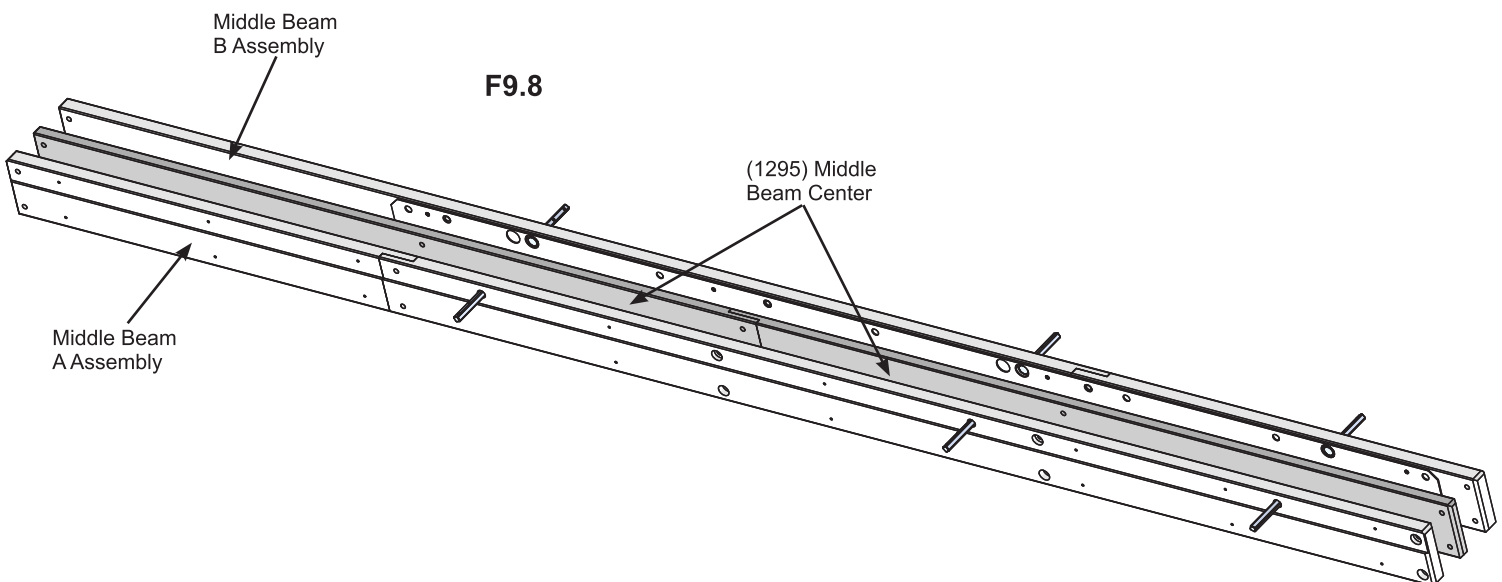
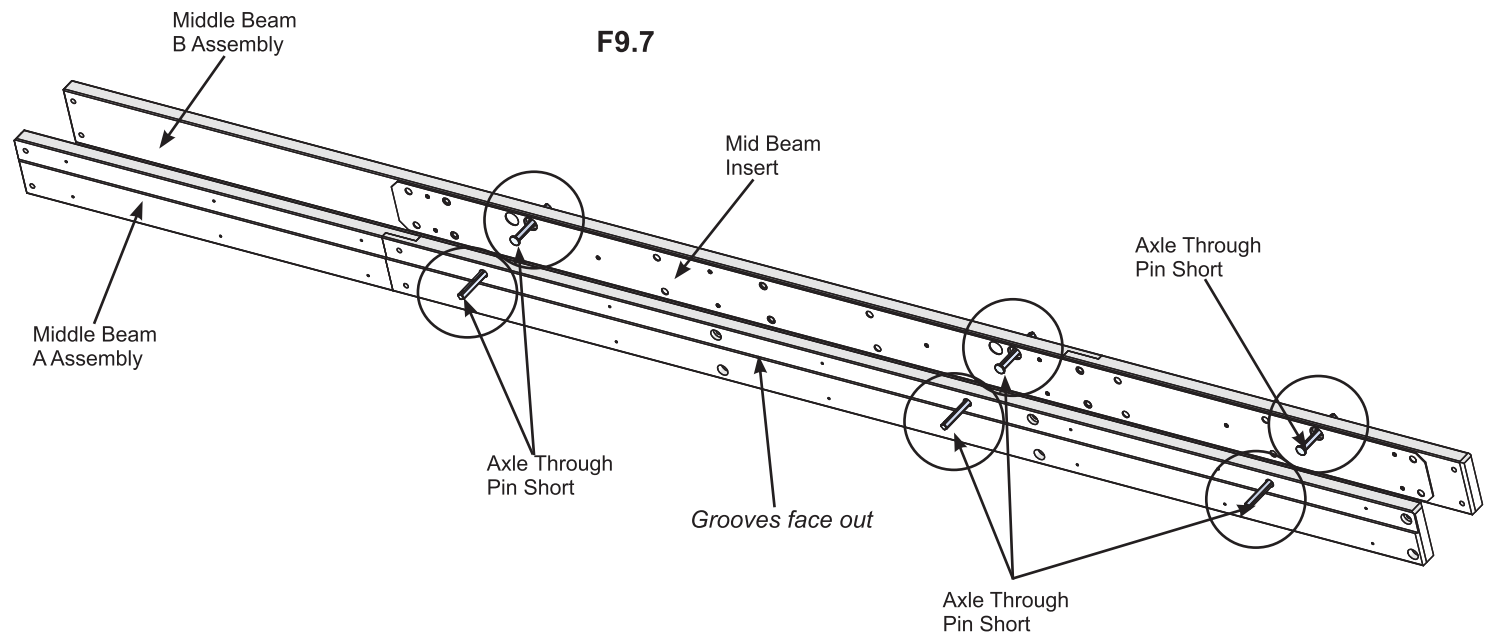
- 11 x #7 x 3/4" Wood Screw

Step 9: Middle Beam Assembly Part 3

C: Place Middle Beam A Assembly on edge then place Middle Beam B Assembly beside the assembly, with lap joints tight and grooves face out. Mid Beam Insert should be between boards. (F9.7)

D: Place three Axle Through Pin Short through each Middle Beam Assembly from the inside out. (F9.7 and F9.8)

E: Place two (1295) Middle Beam Centers with lap joints tight in between Middle Beam A Assembly and Middle Beam B Assembly. (F9.7 and F9.8)



Wood Parts

2 x (1295) Middle Beam Center

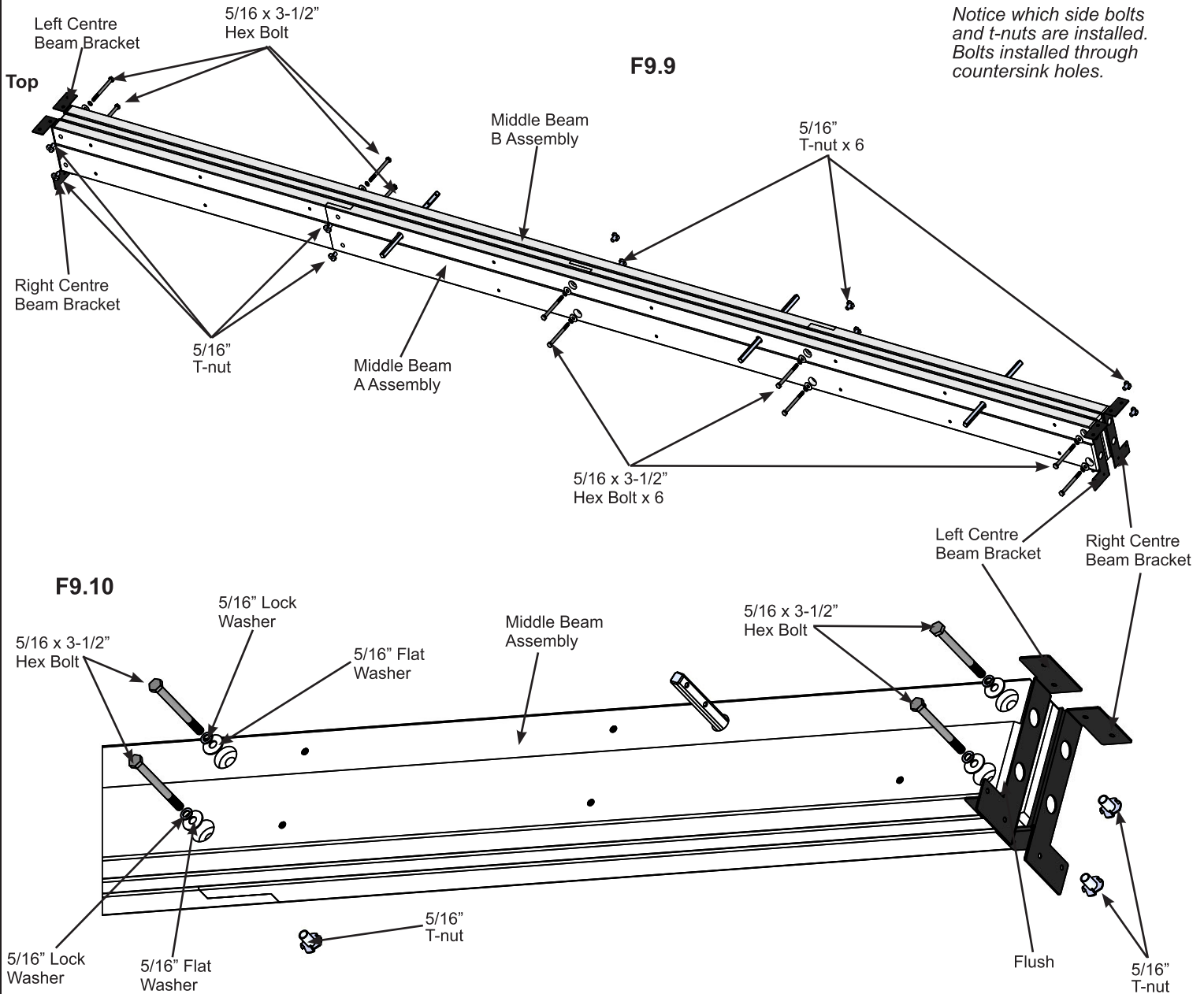
Components

6 x Axle Through Pin Short

Step 9: Middle Beam Assembly Part 4

F: Install six 5/16 T-nuts into Middle Beam B Assembly and four 5/16 T-nuts into Middle Beam A Assembly. T-nuts are installed in the non-countersink holes. In the middle holes attach with six 5/16 x 3-1/2" Hex Bolts (with 5/16" lock washer and 5/16" flat washer), bolts installed in countersink holes and attaching to t-nuts. This assembly is the Middle Beam Assembly. (F9.9 and F9.10)

G: At each end of the Middle Beam Assembly insert one Right Centre Beam Bracket and one Left Centre Beam Bracket, the bottom of the brackets to be flush to the bottom of the assembly. Attach with two 5/16 x 3-1/2" Hex Bolts (with 5/16" lock washer and 5/16" flat washer) per bracket. The bolts are installed in countersink holes. (F9.9 and F9.10)



Components

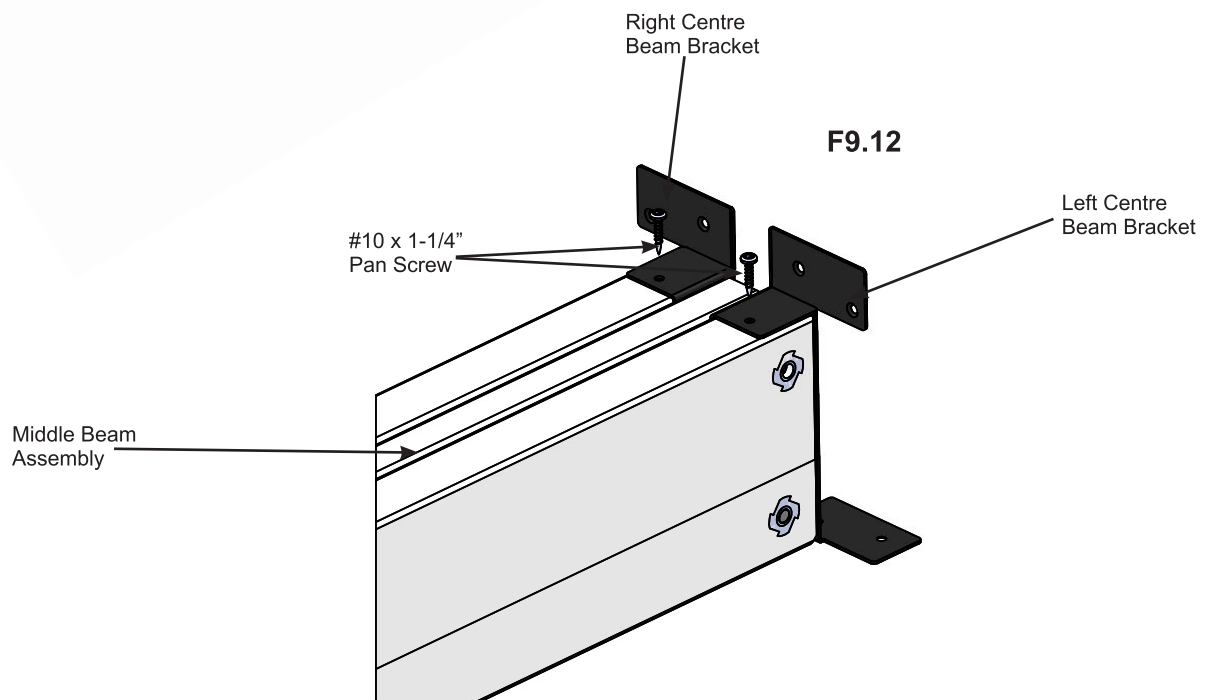
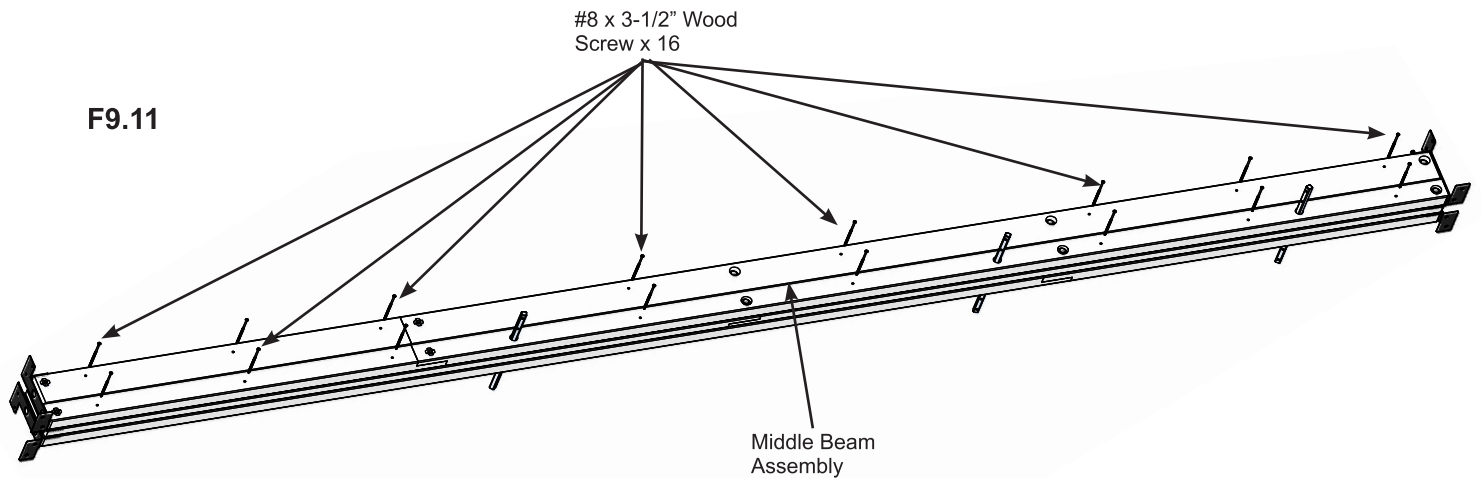
2 x Right Centre Beam Bracket
2 x Left Centre Beam Bracket

Hardware

10 x 5/16 x 3-1/2" Hex Bolt
(5/16" lock washer, 5/16" flat washer,
5/16" t-nuts)

Step 9: Middle Beam Assembly Part 5

H: Secure Middle Beam Assembly with (16) #8 x 3-1/2" Wood Screws and each Centre Beam Bracket with one #10 x 1-1/4" Pan Screw as shown in F9.11 and F9.12.



Hardware

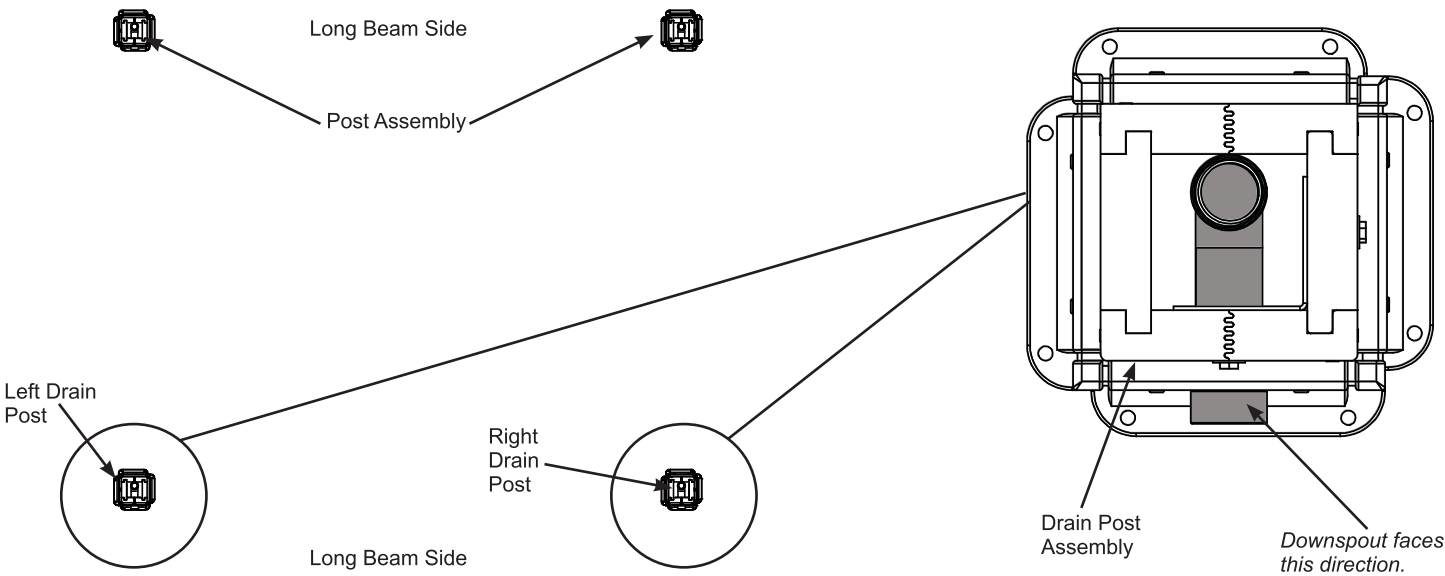
16 x #8 x 3-1/2" Wood Screw

4 x #10 x 1-1/4" Pan Screw

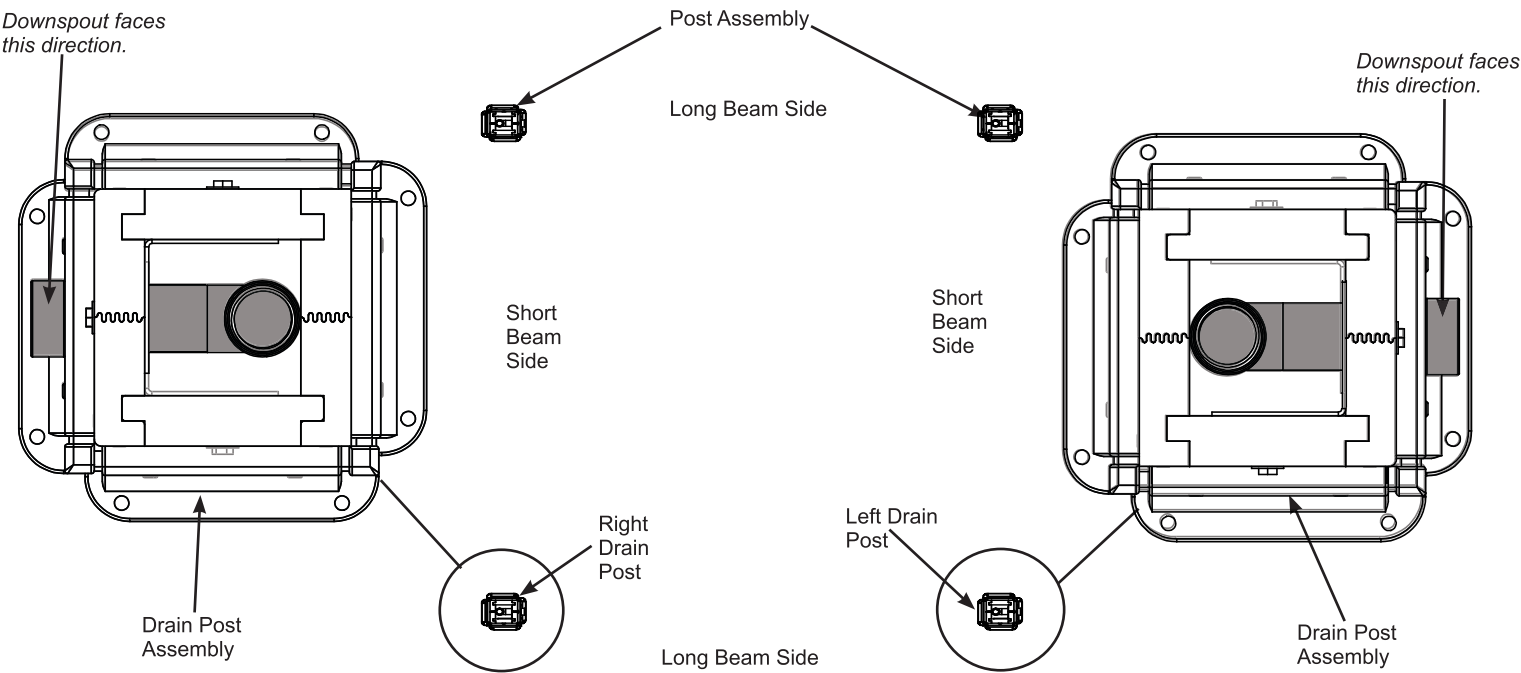
Step 10: Post Placement

There are 2 options for the post placement. See Below:

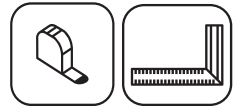
Option 1 shows the drains downspout exiting on the same Long Beam side. *This is the post placement which will be shown in the remaining assembly steps.*



Option 2 shows the drains downspout exiting on opposite Short Beam sides.



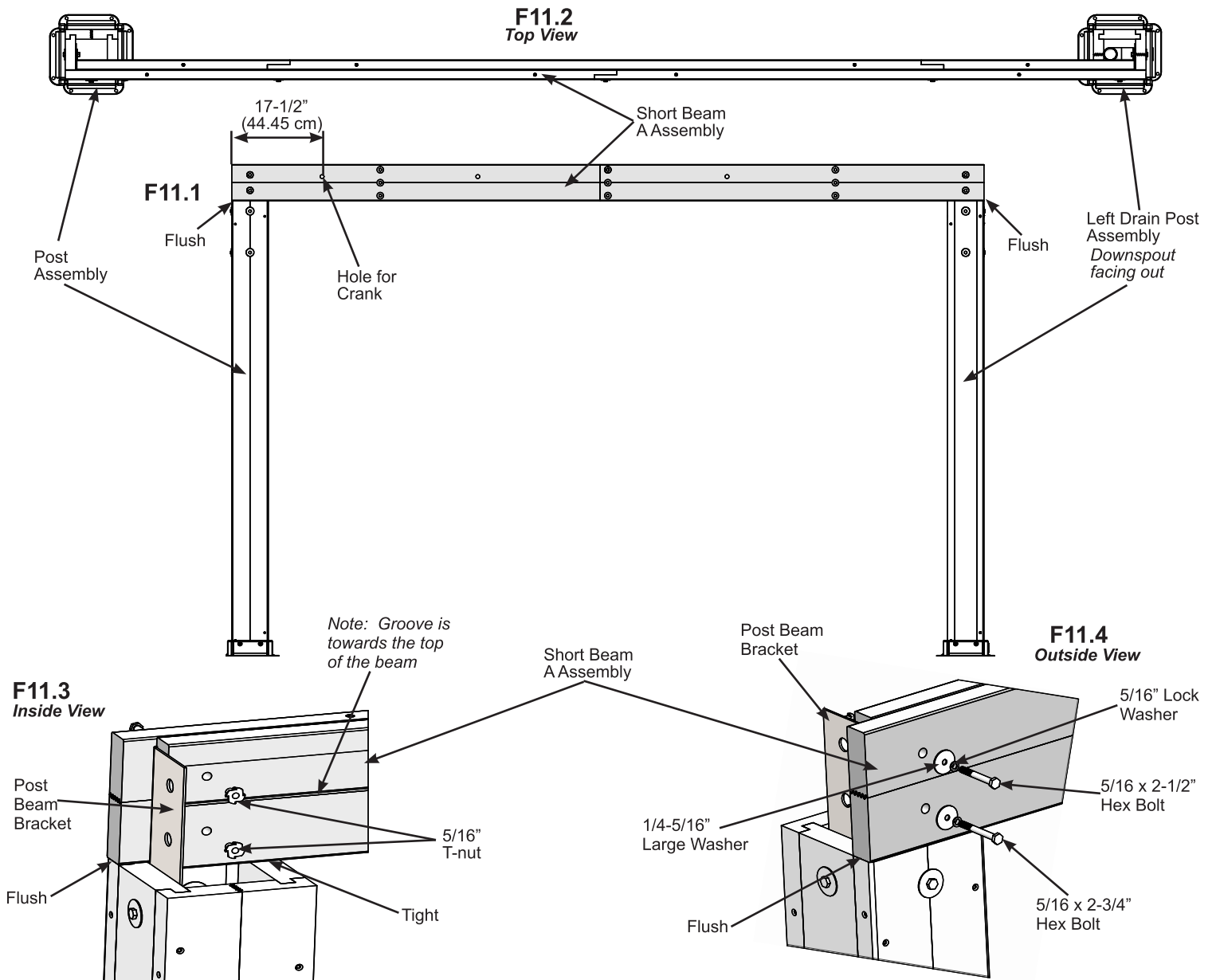
Step 11: Short Beam/Post Assembly Part 1



A: At each end of the Short Beam A Assembly, on the groove side, install two 5/16" T-nuts. (F11.3)

B: Slide Short Beam A Assembly onto Post Beam Brackets with groove towards the top, flush to the side of one Post Assembly and Left Drain Post Assembly. T-nuts face away from brackets and beam to be tight to top of posts. Notice the hole for the Crank Assembly is 17-1/2" (44.45 cm) from outside of the beam (on Post Assembly side). (F11.1, F11.2 and F11.3)

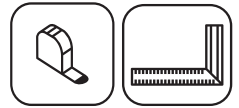
C: Make sure beam is square to posts then attach Short Beam A Assembly to brackets with two 5/16 x 2-1/2" Hex Bolts (with 5/16" lock washer and 1/4-5/16" large washer) in the top holes and two 5/16 x 2-3/4" Hex Bolts (with 5/16" lock washer and 1/4-5/16" large washer) in the bottom holes. The bolts will connect to the previously installed t-nuts. (F11.1, F11.2 and F11.4)



Hardware

- 2 x 5/16 x 2-1/2" Hex Bolt
(5/16" lock washer, 1/4-5/16" large washer, 5/16" t-nuts)
- 2 x 5/16 x 2-3/4" Hex Bolt
(5/16" lock washer, 1/4-5/16" large washer, 5/16" t-nuts)

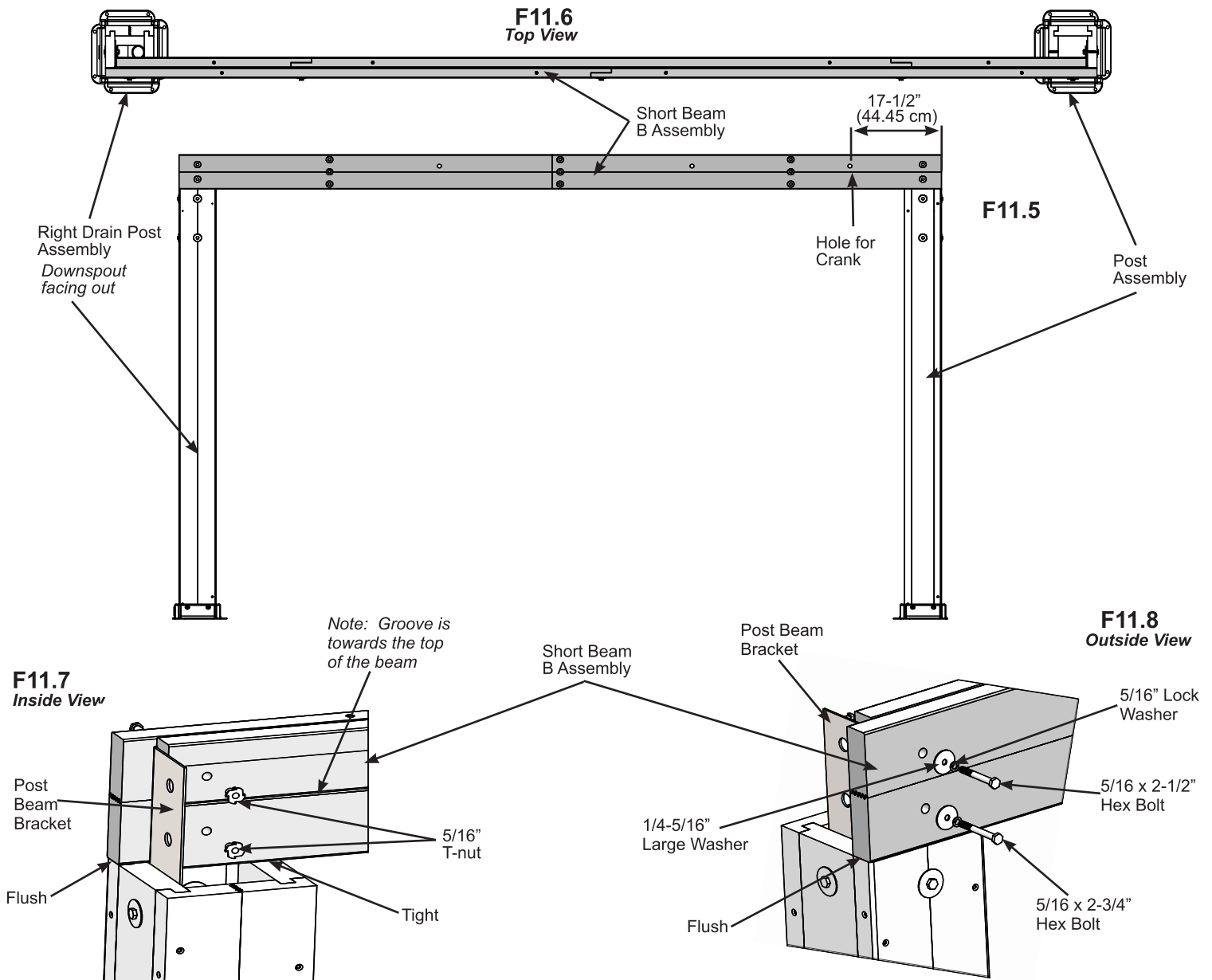
Step 11: Short Beam/Post Assembly Part 2



D: At each end of the Short Beam B Assembly, on the groove side, install two 5/16" T-nuts. (F11.7)

E: Slide Short Beam B Assembly onto Post Beam Brackets with groove towards the top, flush to the side of one Post Assembly and Right Drain Post Assembly. T-nuts face away from brackets and beam to be tight to top of posts. Notice the hole for the Crank Assembly is 17-1/2" (44.45 cm) from outside of the beam (on Post Assembly side). (F11.5, F11.6 and F11.7)

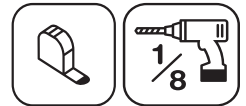
F: Make sure beam is square to posts then attach Short Beam B Assembly to brackets with two 5/16 x 2-1/2" Hex Bolts (with 5/16" lock washer and 1/4-5/16" large washer) in the top holes and two 5/16 x 2-3/4" Hex Bolts (with 5/16" lock washer and 1/4-5/16" large washer) in the bottom holes. The bolts will connect to the previously installed t-nuts. (F11.5, F11.6 and F11.8)



Hardware

- 2 x 5/16 x 2-1/2" Hex Bolt
(5/16" lock washer, 1/4-5/16" large washer, 5/16" t-nuts)
- 2 x 5/16 x 2-3/4" Hex Bolt
(5/16" lock washer, 1/4-5/16" large washer, 5/16" t-nuts)

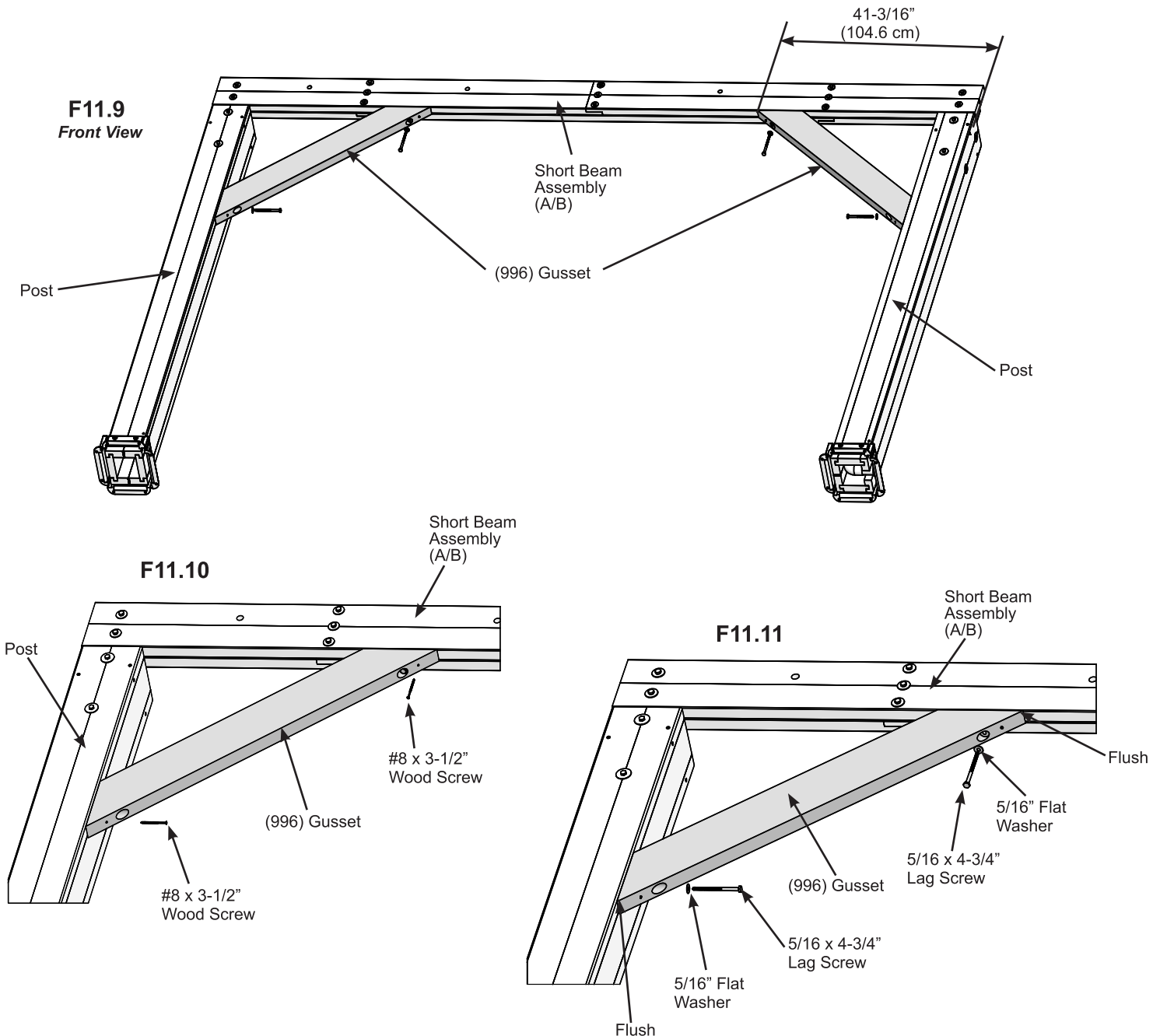
Step 11: Short Beam/Post Assembly Part 3



G: Along Short Beam A Assembly measure 41-3/16" (104.6 cm) from the outside of the beam. Place one (996) Gusset flush to front of Short Beam Assembly at marked location and flush to the front of the post. Attach gusset to Short Beam A Assembly and post with two #8 x 3-1/2" Wood Screws. Pre-drill with a 1/8" drill bit then attach gusset with two 5/16 x 4-3/4" Lag Screws (with 5/16" flat washer). (F11.9, F11.10 and F11.11)

H: Repeat Step G for second (996) Gusset on Short Beam A Assembly.

I: Repeat Steps G and H for Short Beam B Assembly.



Wood Parts

4 x (996) Gusset

Hardware

8 x #8 x 3-1/2" Wood Screw

8 x 5/16 x 4-3/4" Lag Screw (5/16" flat washer)

Step 12: Long Beam/Post Assembly Part 1

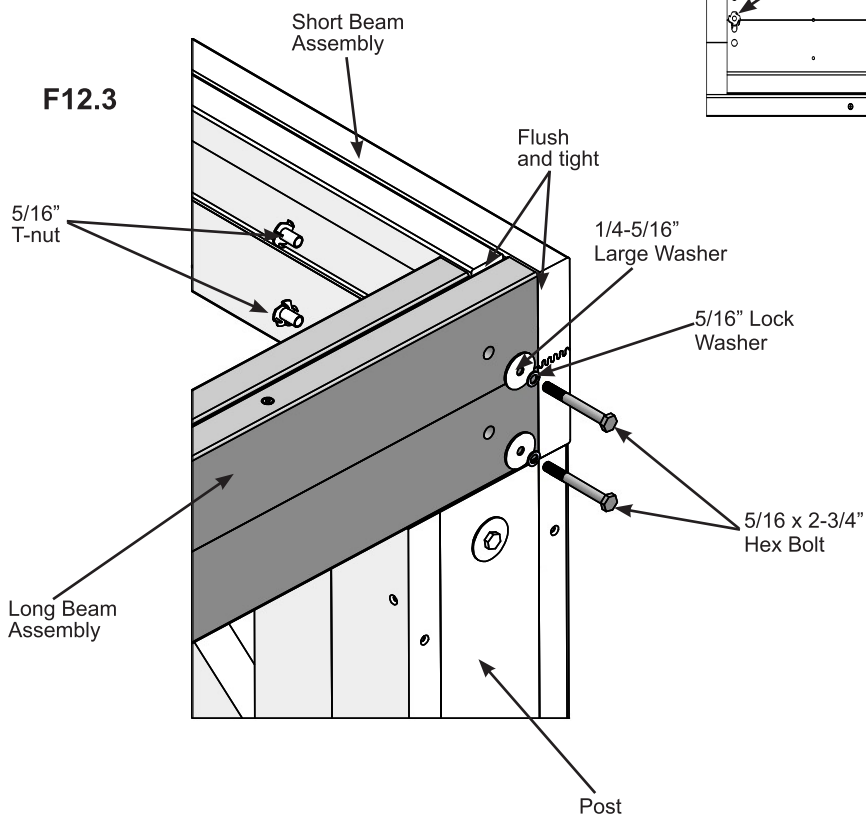
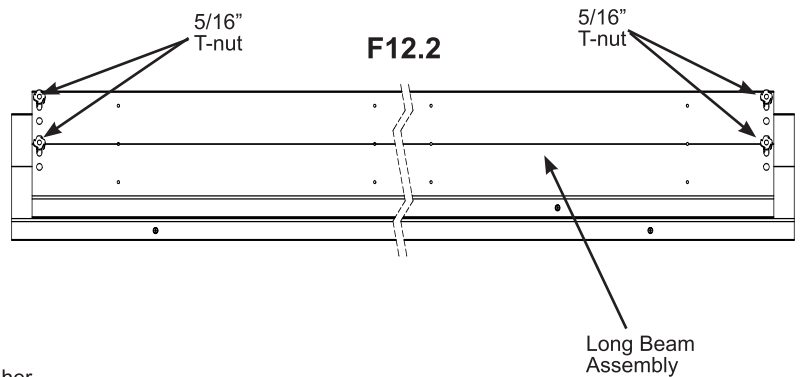
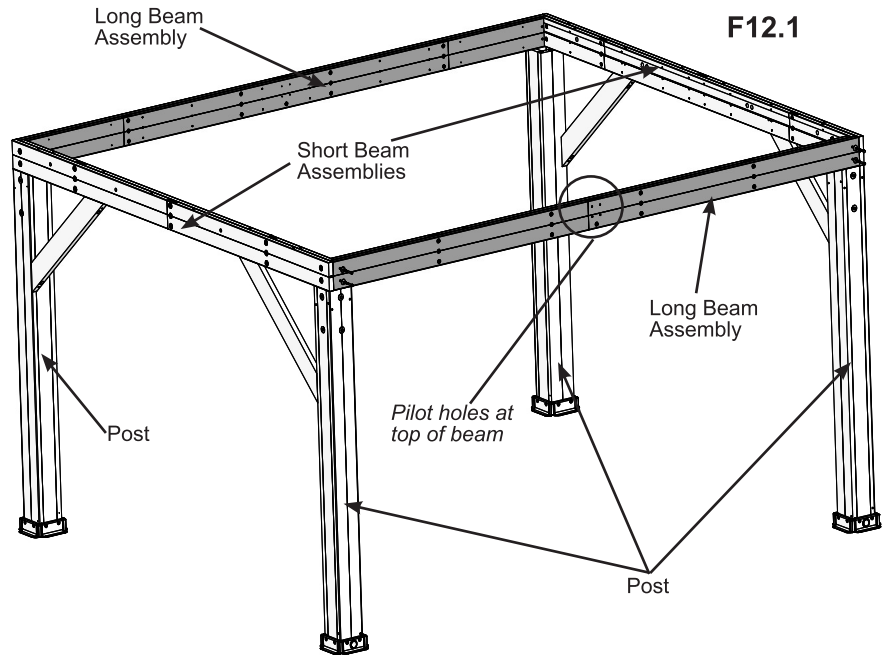


Move Short Beam/Post Assemblies to the final location.

A: On both Long Beam Assemblies tap two 5/16" T-nuts into each end. T-nuts should be installed on the same side as previous t-nuts are installed. (F12.2)

B: With helpers stand up Short Beam/Post Assemblies then slide one Long Beam Assembly onto Post Beam Bracket, tight to Short Beam Assemblies and flush to the tops and outside corners of Short Beam Assemblies. Attach Long Beam Assembly to Post Beam Brackets with two 5/16 x 2-3/4" Hex Bolts (with 5/16" lock washer and 1/4-5/16" large washer) per corner. The bolts will connect to the previously installed t-nuts. Repeat for second Long Beam Assembly. (F12.1 and F12.3)

Note: Four middle pilot holes to top of beam.



Hardware

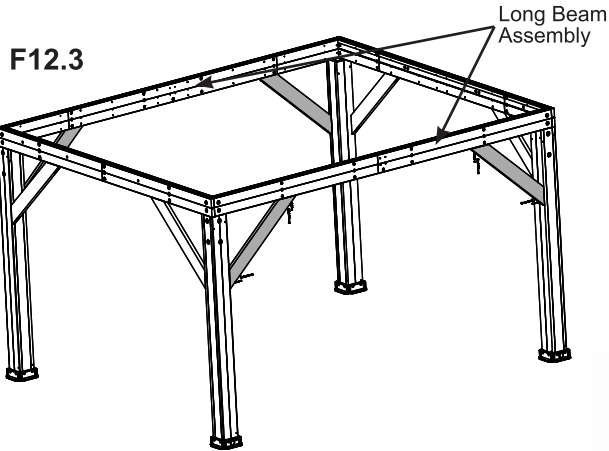
8 x 5/16 x 2-3/4" Hex Bolt
(5/16" lock washer, 1/4-5/16" large washer, 5/16" t-nuts)

Step 12: Long Beam/Post Assembly Part 2

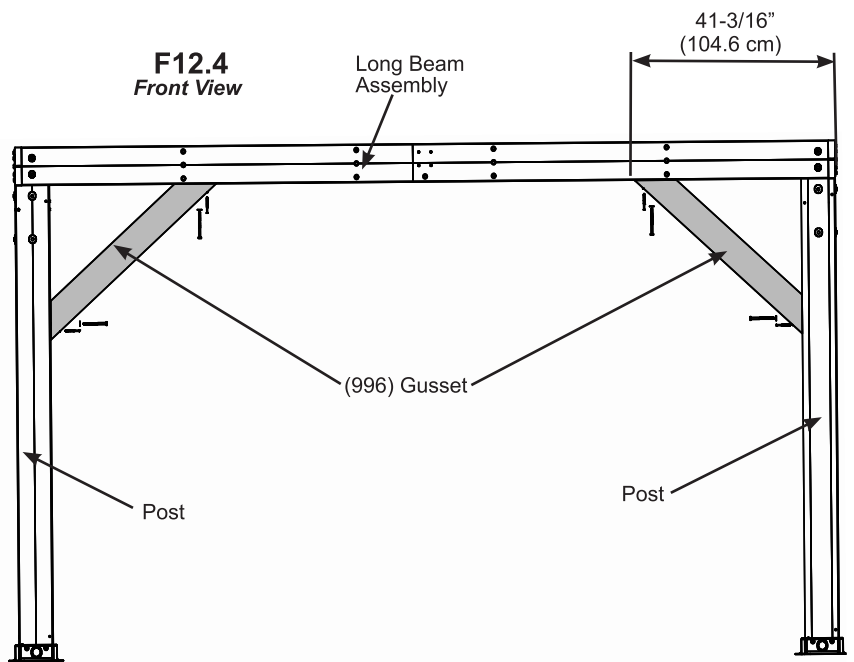


D: Make sure the assembly is square then along Long Beam Assembly measure 41-3/16" (104.6 cm) from the outside of the beam. Place one (996) Gusset flush to front of Long Beam Assembly at marked location and flush to the front of the post. Attach gusset to Long Beam Assembly and post with two #8 x 3-1/2" Wood Screws. Pre-drill with a 1/8" drill bit then attach gusset with two 5/16 x 4-3/4" Lag Screws (with 5/16" flat washer). (F12.3, F12.4 and F12.5)

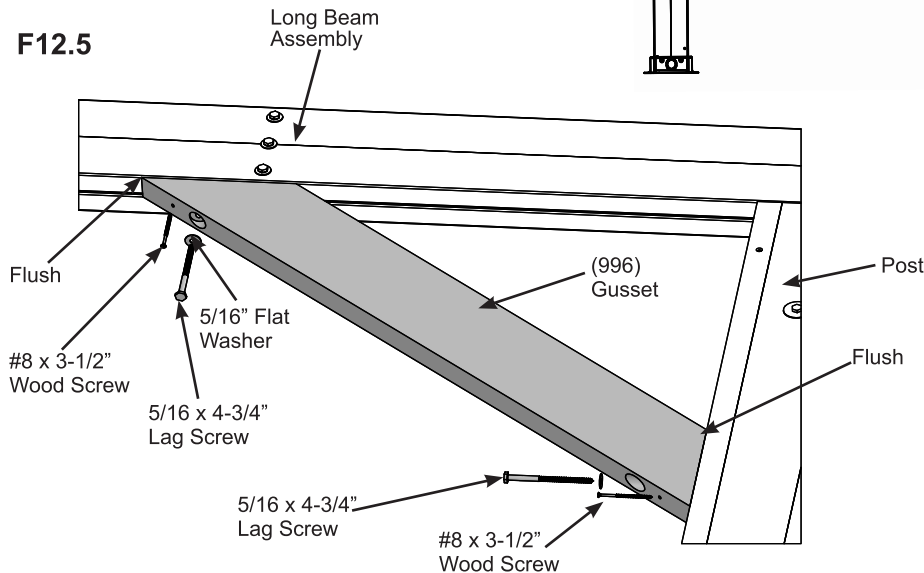
E: Repeat Step D for second Long Beam Assembly.



**F12.4
Front View**



F12.5



Wood Parts

4 x (996) Gusset

Hardware

8 x #8 x 3-1/2" Wood Screw

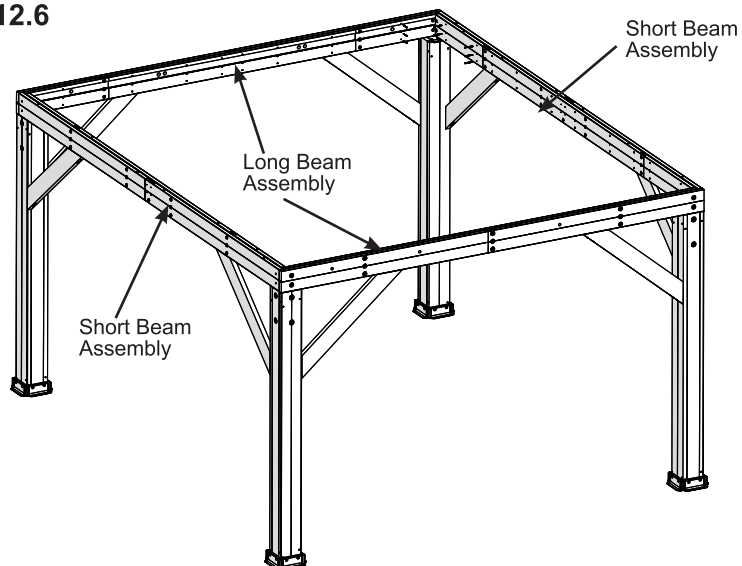
8 x 5/16 x 4-3/4" Lag Screw (5/16" flat washer)

Step 12: Long Beam/Post Assembly Part 3

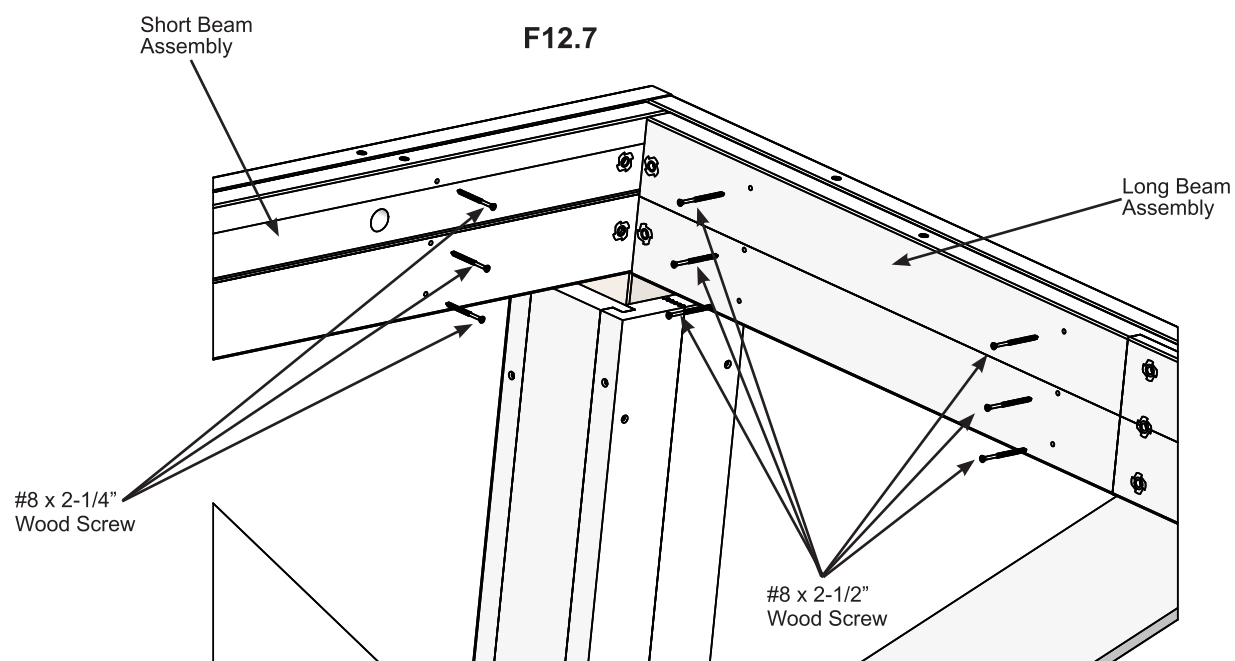


F: From inside the assembly install three #8 x 2-1/4" Wood Screws to the ends of each Short Beam Assembly and six #8 x 2-1/2" Wood Screws to the ends of each Long Beam Assembly. (F12.6 and F12.7)

F12.6



F12.7



Hardware

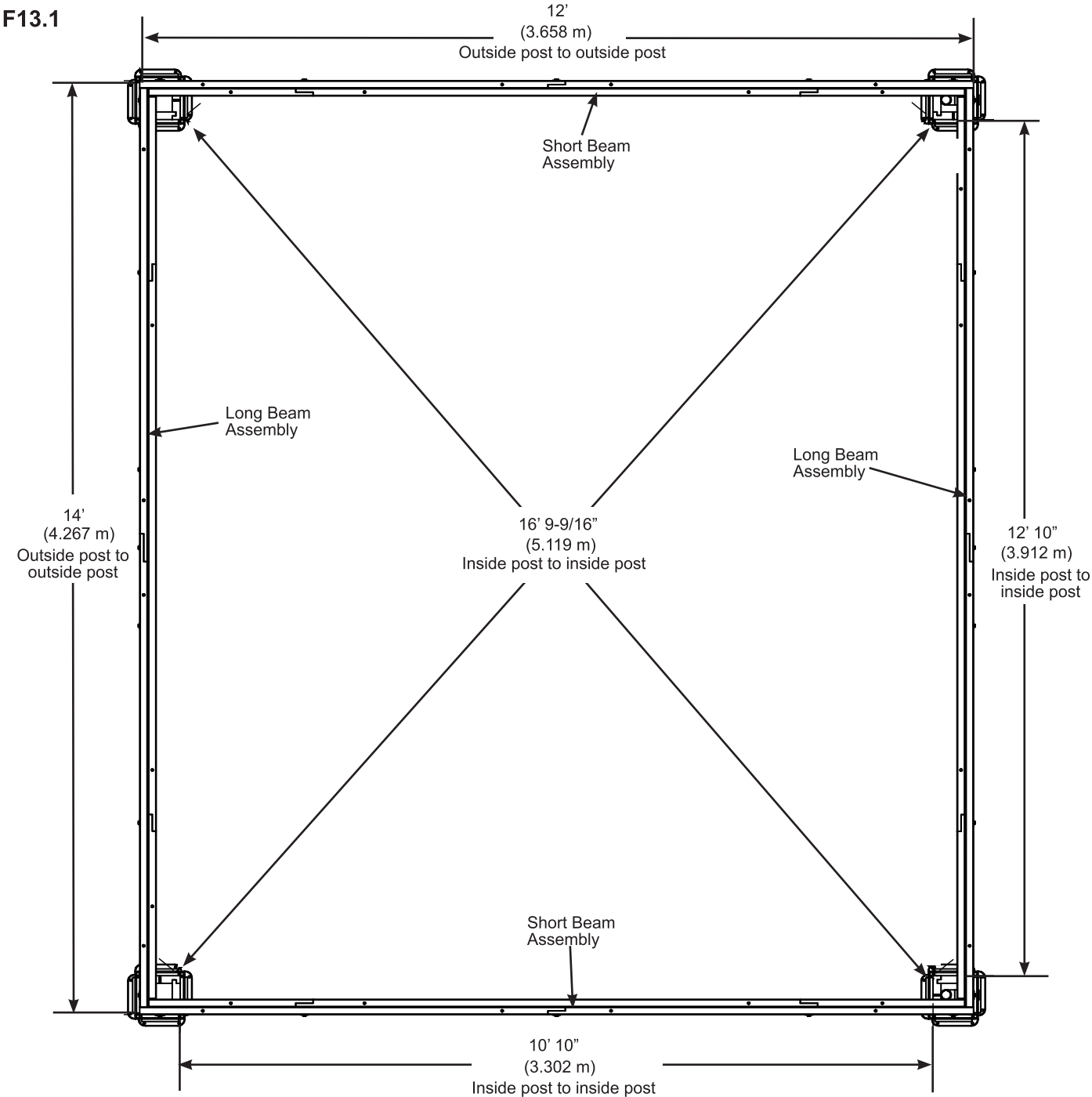
12 x #8 x 2-1/4" Wood Screw

24 x #8 x 2-1/2" Wood Screw

Step 13: Check Frame Dimensions



A: The diagonal distance between the inside of two posts should be 16' 9-9/16" (5.119 m) (measuring from posts not from Post Mounts. (F13.1)



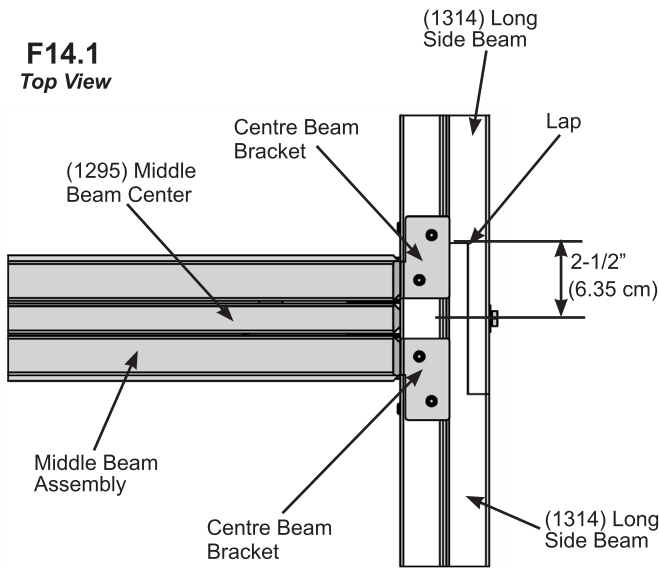
Step 14: Attach Middle Beam Assembly Part 1



A: On each Long Beam Assembly, at the lap where two (1314) Long Side Beams meet, measure 2-1/2" (6.35 cm) and mark the spot. (F14.1)

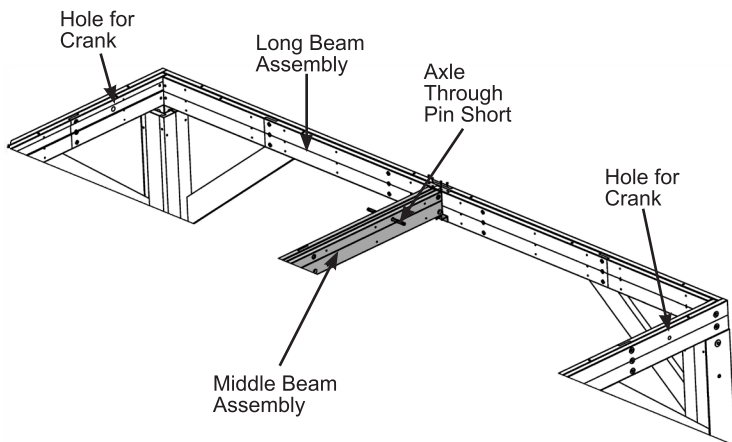
B: Place Middle Beam Assembly at the centre of each Long Beam Assembly so (1295) Middle Beam Center lines up with the previously marked location on the Long Beam Assembly. Make sure Axle Through Pin Shorts are at the top of the beam. They will be aligned with the holes for the Crank. Attach Centre Beam Brackets to Long Beam Assemblies with four #8 x 1-1/4" Wood Screws per bracket. (F14.2, F14.3 and F14.4)

F14.1
Top View

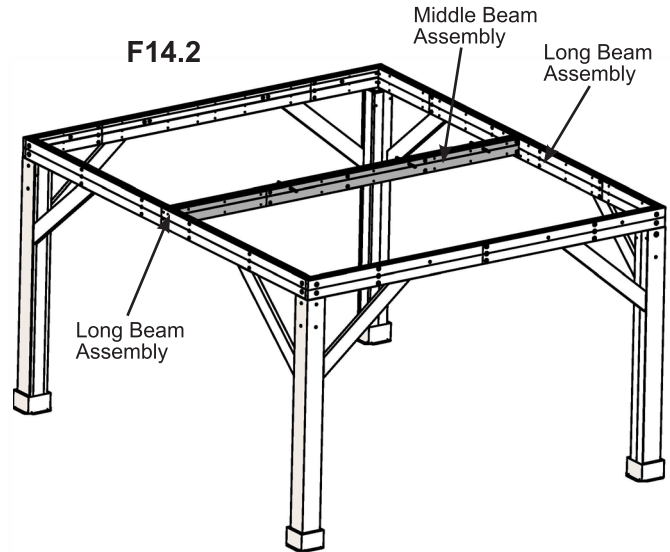


NOTE: Axle Through Pin Short align with holes for Crank

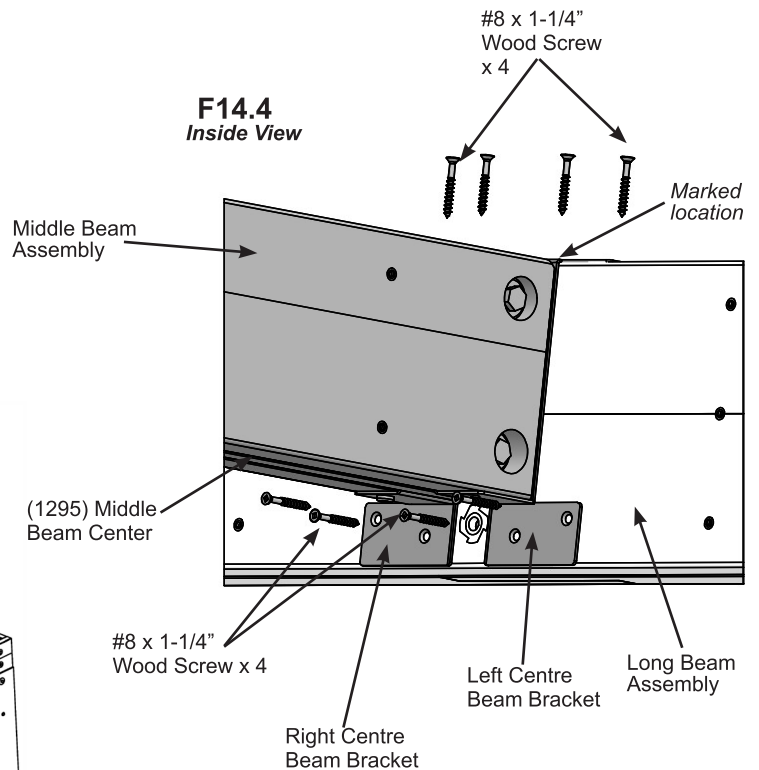
F14.3



F14.2



F14.4
Inside View



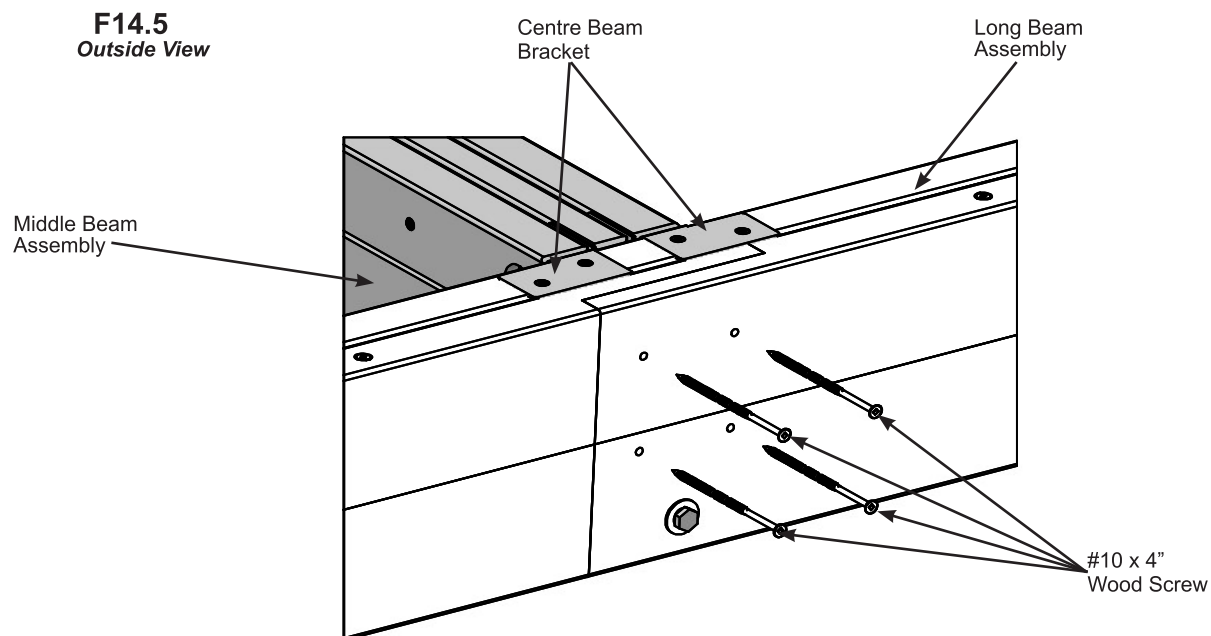
Hardware

16 x #8 x 1-1/4" Wood Screw

Step 14: Attach Middle Beam Assembly Part 2



C: Predrill with a 1/8" drill bit then attach Long Beam Assemblies to Middle Beam Assembly with four #10 x 4" Wood Screws per end. (F14.5)



Hardware

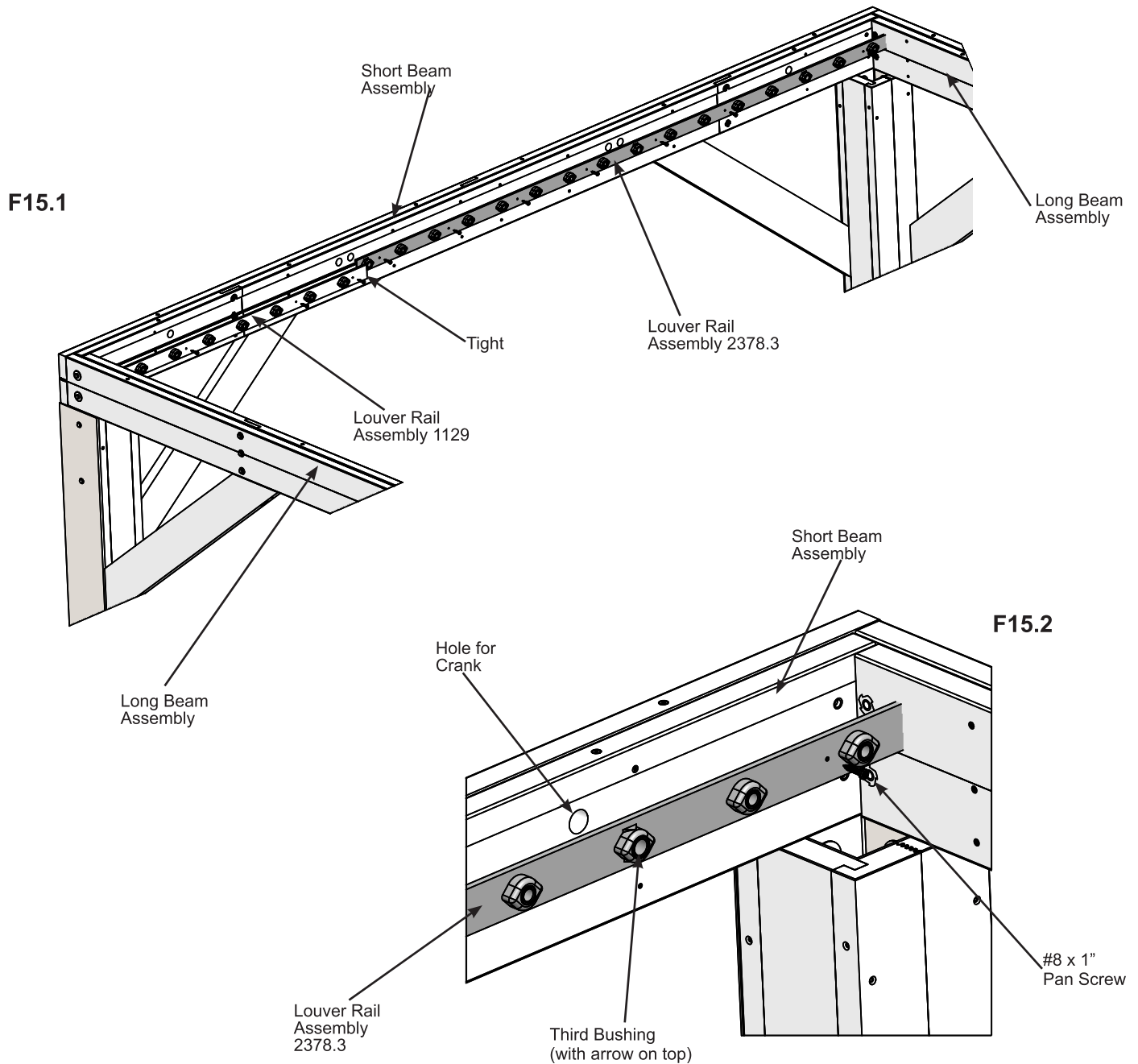
8 x #10 x 4" Wood Screw

Step 15: Attach Louvered Rails Part 1



A: On the inside of each Short Beam Assembly, in the groove, place one Louver Rail Assembly 2378.3. Make sure the rail is oriented so the third bushing (with arrow on top) is lined up with the hole for the Crank. Attach to Short Beam Assembly with eight #8 x 1" Pan Screws. (F15.1 and F15.2)

B: Tight to each Louver Rail Assembly 2378.3 place one Louver Rail Assembly 1129 then attach with four #8 x 1" Pan Screws. (F15.1 and F15.2)



Components

2 x Louver Rail Assembly 2378.3
2 x Louver Rail Assembly 1129

Hardware

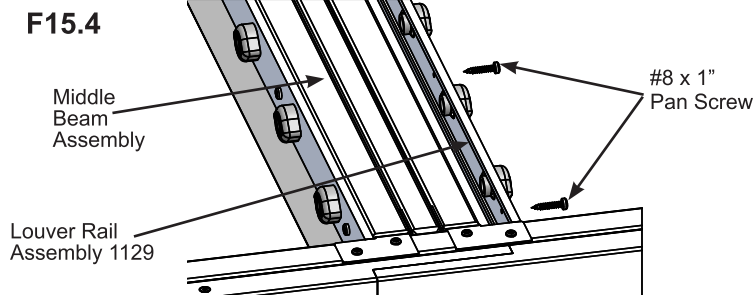
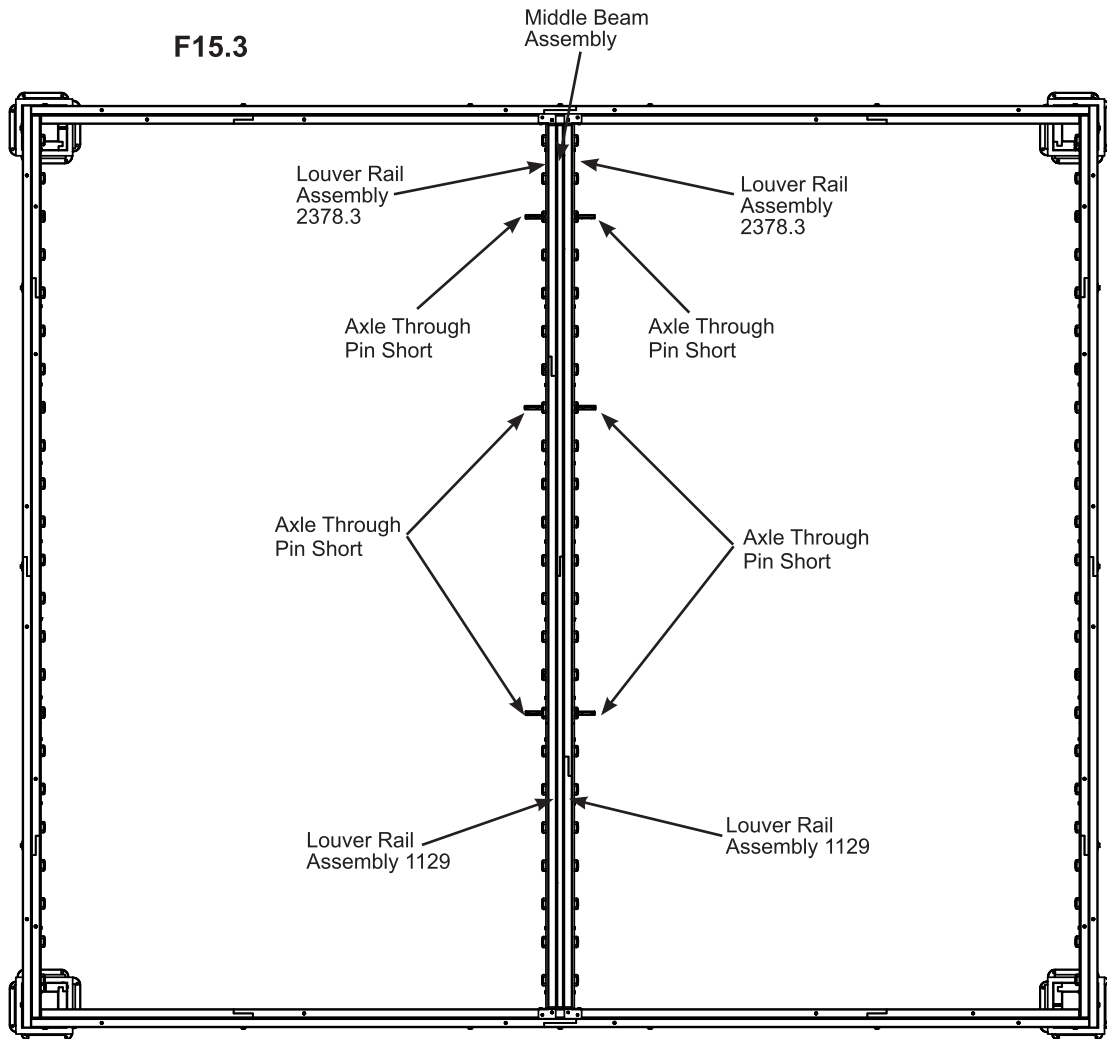
24 x #8 x 1" Pan Screw

Step 15: Attach Louvered Rails Part 2



C: On each side of the Middle Beam Assembly, in the groove, place one Louver Rail Assembly 2378.3. Make sure the rail is oriented so the three bushings (with arrow on top) are inserted over the three Axle Through Pin Shorts. Attach to Middle Beam Assembly with eight #8 x 1" Pan Screws. (F15.3 and F15.4)

B: Tight to each Louver Rail Assembly 2378.3 place one Louver Rail Assembly 1129 then attach with four #8 x 1" Pan Screws. (F15.3 and F15.4)



Components

2 x Louver Rail Assembly 2378.3
2 x Louver Rail Assembly 1129

Hardware

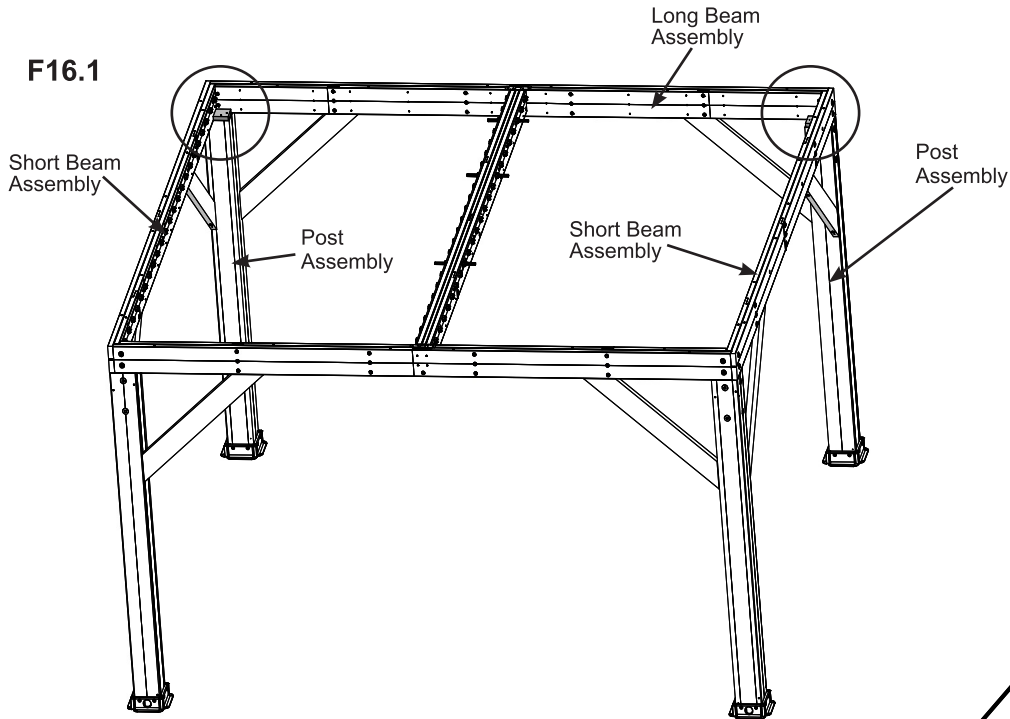
24 x #8 x 1" Pan Screw

Step 16: Attach Post Blocks

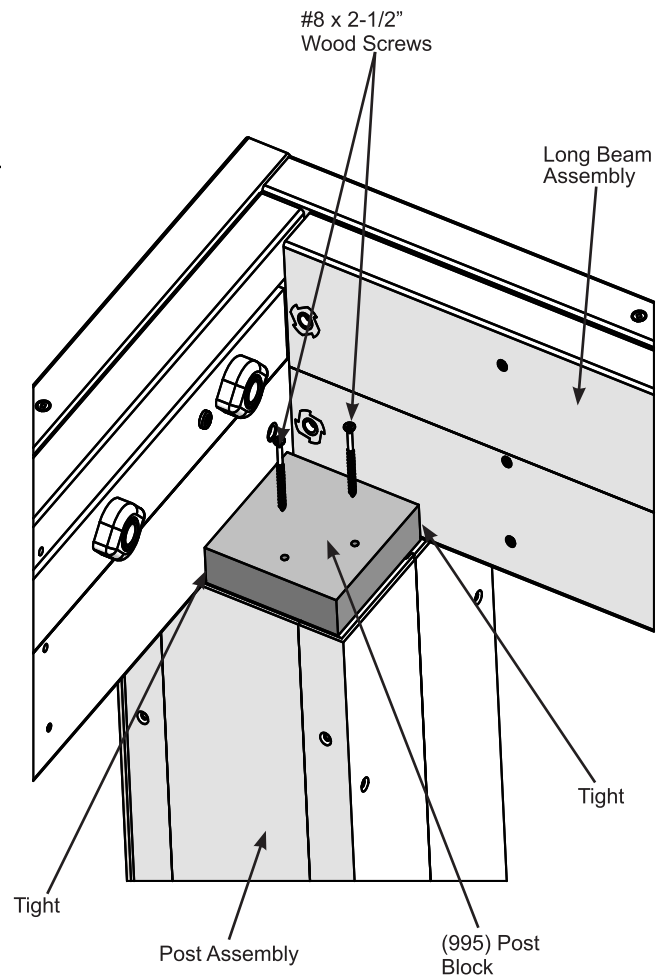


A: On each Post Assembly (no downspout) place one (995) Post Block tight to the Long and Short Beam Assemblies. Attach each (995) Post Block to posts with two #8 x 2-1/2" Wood Screws. (F16.1 and F16.2)

F16.1



F16.2



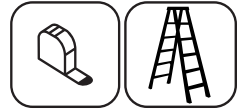
Wood Parts

2 x (995) Post Block

Hardware

4 x #8 x 2-1/2" Wood Screw

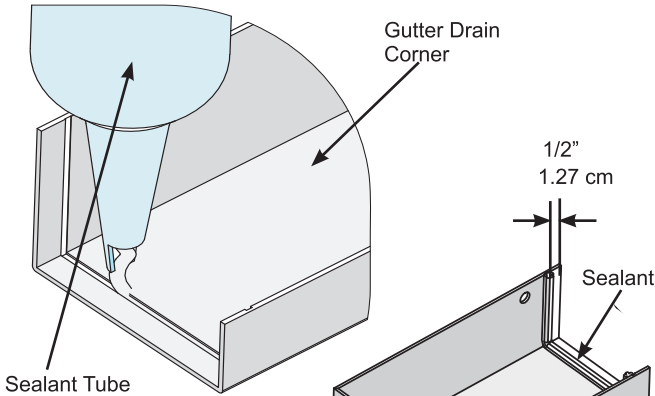
Step 17: Attach Gutter Drain Corners



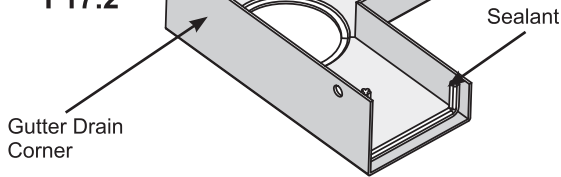
A: Measure approximately 1/2" (1.27 cm) in from both edges of each Gutter Drain Corner then apply a small bead of sealant, as shown in F17.1 and F17.2.

B: On each Drain Post Assembly place one Gutter Drain Corner so it fits in the Downspout Assembly tight to the Long and Short Beam Assemblies. Do not attach at this step. (F17.3 and F17.4)

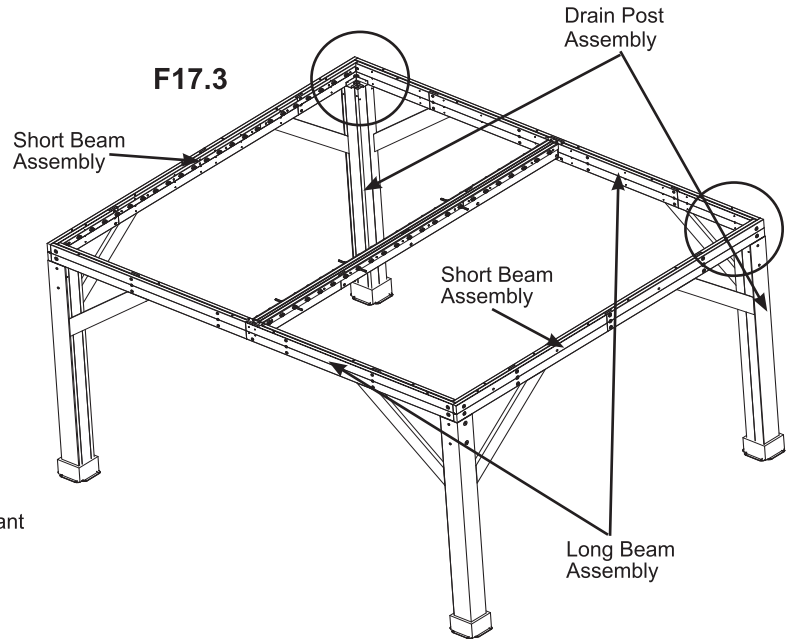
F17.1



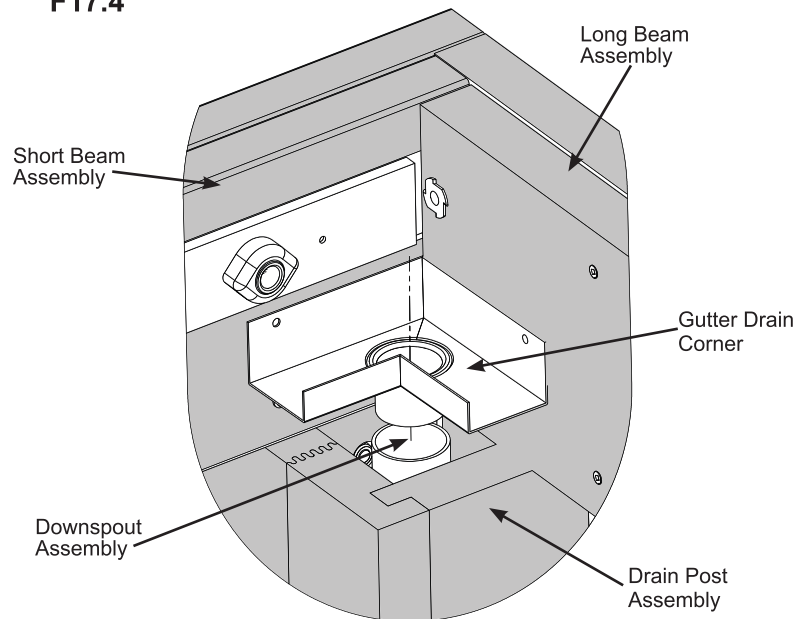
F17.2



F17.3



F17.4



Note: All surfaces to be clean, dry, dust and grease free before application with temperatures above 5°C (41°F), no warmer than 35°C (95°F).

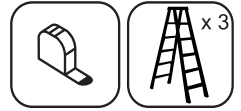
- Remove cap and cut a small piece off the nozzle for a small bead.
- Apply sealant in small beads and smooth as required.
- Clean excess with a cloth or paper towel before it skins over.
- Always wear safety glasses and rubber gloves when using product.

See page 6 for Warning and First Aid Information.

Components

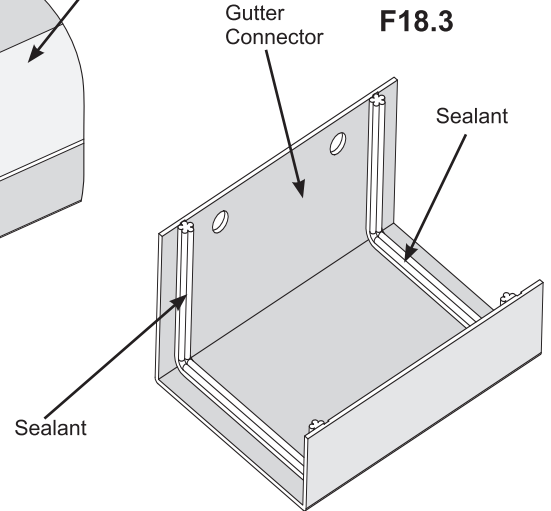
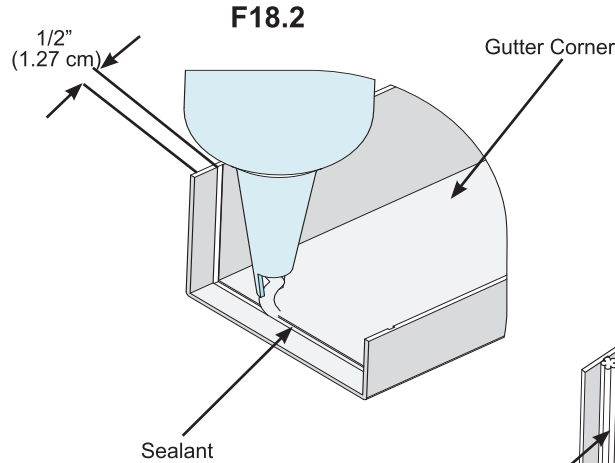
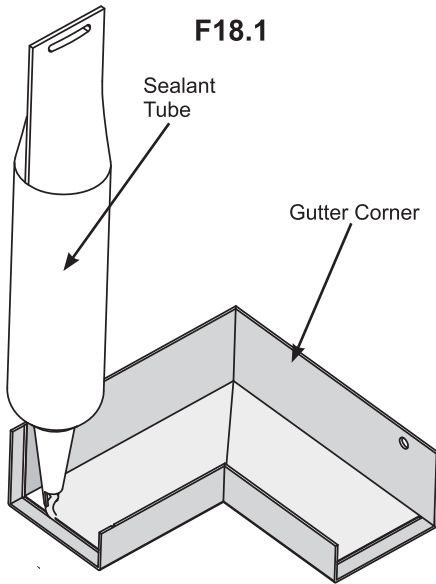
2 x Gutter Drain Corner
Sealant

Step 18: Rain Gutter Assembly Part 1

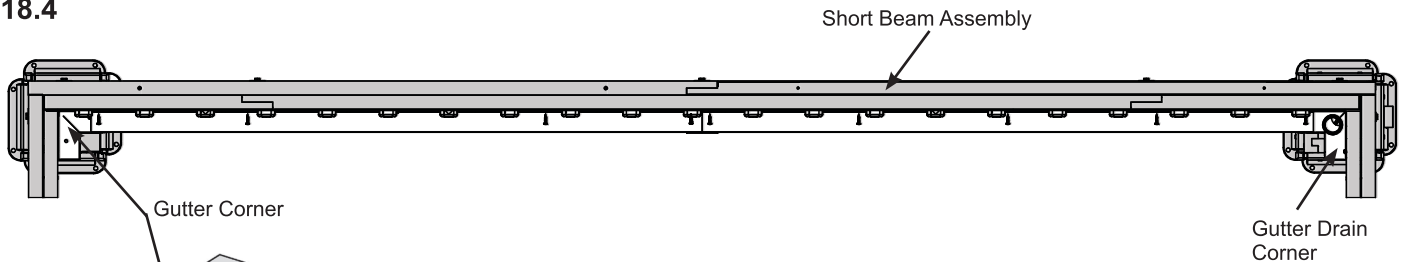


A: Measure approximately 1/2" (1.27 cm) in from both edges of three Gutter Corners and two Gutter Connectors then apply a small bead of sealant, as shown in F18.1, F18.2 and F18.3.

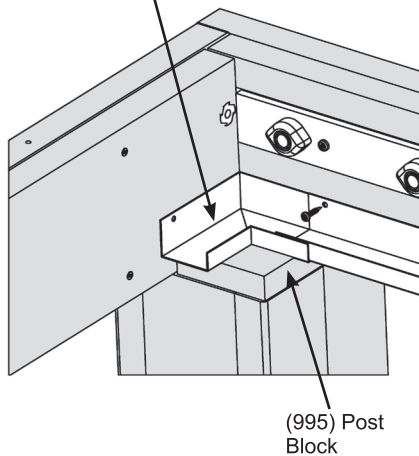
B: Place Gutter Corner on one (995) Post Block tight to the Long and Short Beam Assemblies. (F18.4 and 18.5)



F18.4



F18.5



Note: All surfaces to be clean, dry, dust and grease free before application with temperatures above 5°C (41°F), no warmer than 35°C (95°F).

- Apply sealant in small beads and smooth as required.
- Clean excess with a cloth or paper towel before it skins over.
- Always wear safety glasses and rubber gloves when using product.

See page 6 for Warning and First Aid Information.

Components

6 x Gutter Corner
4 x Gutter Connector
Sealant

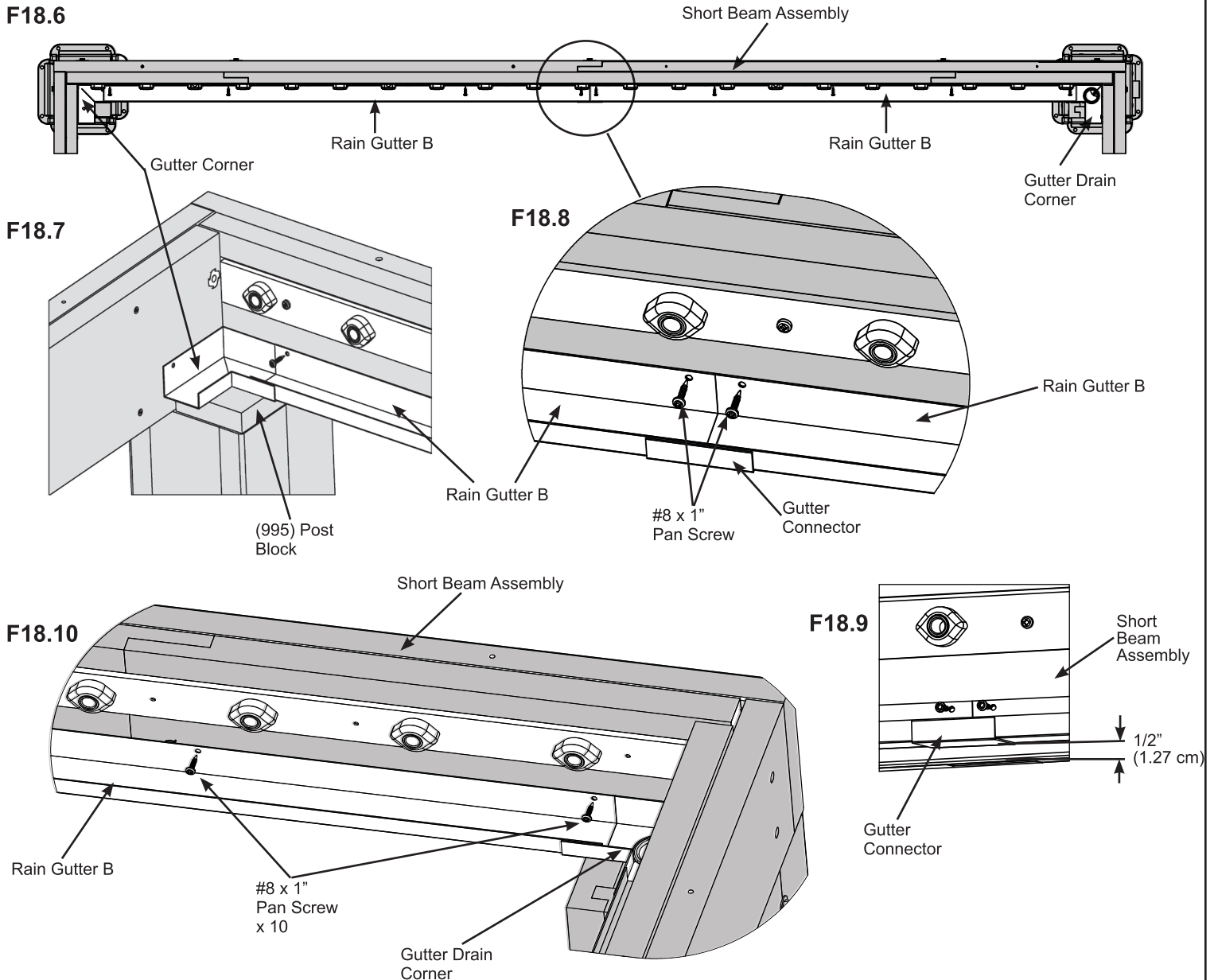
Step 18: Rain Gutter Assembly Part 2



C: Slide one Rain Gutter B into Gutter Corner along the Short Beam Assembly then place one Gutter Connector at the end of Rain Gutter B. Gutter Connector to sit 1/2" (1.27 cm) up from bottom of beam. (F18.6, F18.7, F18.8 and F18.9)

D: Slide one Rain Gutter B into Gutter Drain Corner along the Short Beam Assembly and into Gutter Connector. (F18.6, F18.8 and F18.10).

E: Attach, Rain Gutters to Short Beam Assembly with (10) #8 x 1" Pan Screws. (F18.6, F18.7, F18.8 and F18.10)



Components

4 x Rain Gutter B

Hardware

20 x #8 x 1" Pan Screw

Step 18: Rain Gutter Assembly Part 3

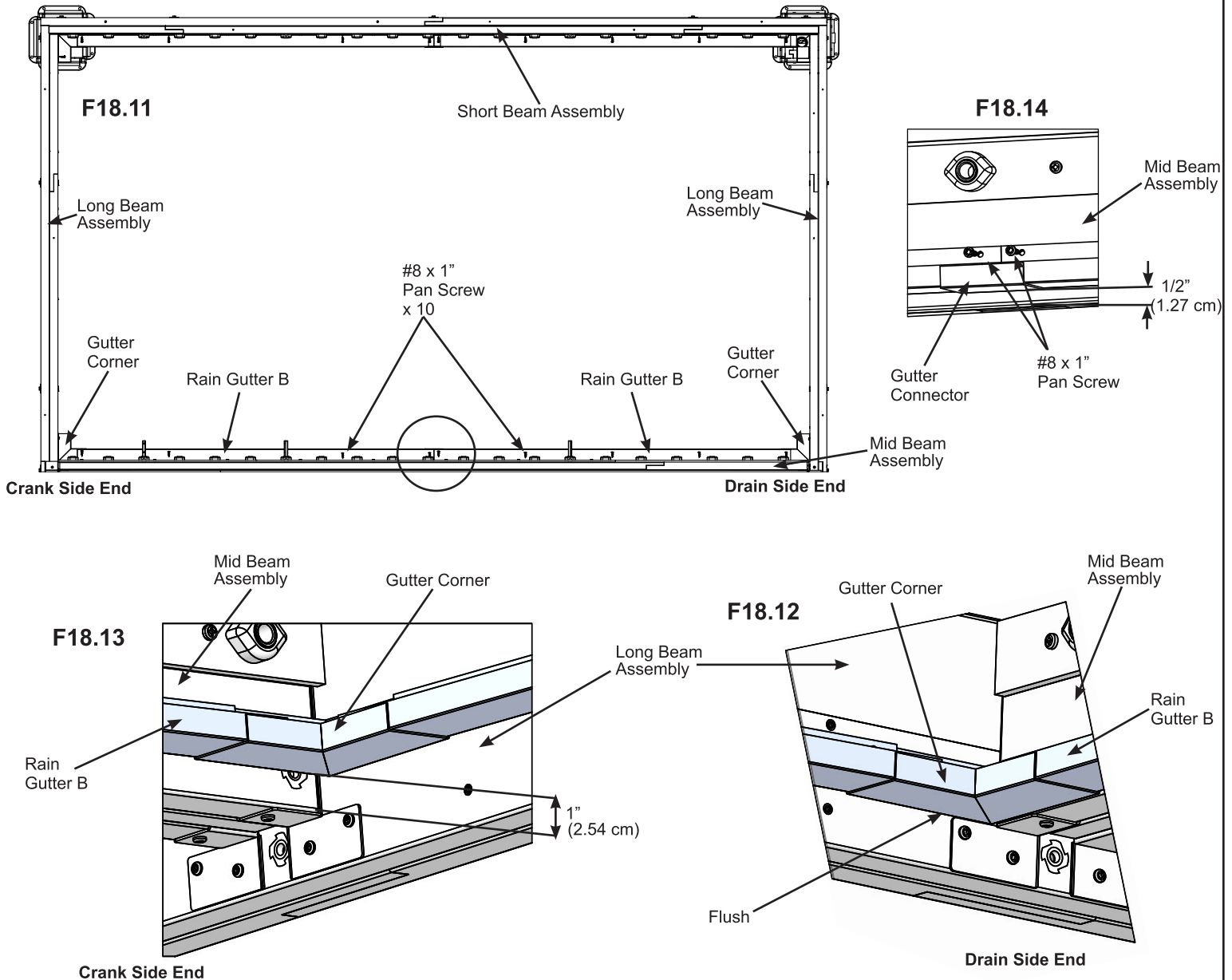


F: On the drain end side of the Mid Beam Assembly place one Gutter Corner flush to the bottom of the beam. Have one helper hold it in place. (F18.11 and F18.12)

G: On the crank end side of the Mid Beam Assembly measure 1" (2.54 cm) up from the bottom of the beam and place one Gutter Corner. Have one helper hold it in place. (F18.11 and F18.13)

H: Slide one Rain Gutter B into each Gutter Corner along the Mid Beam Assembly with a Gutter Connector in the middle as done for the Small Beam Assembly. Gutter Connector to sit 1/2" (1.27 cm) up from bottom of beam. (F18.11, F18.12, F18.13 and F18.14)

I: Attach, Rain Gutters to Mid Beam Assembly with (10) #8 x 1" Pan Screws. (F18.11 and F18.14)



Components

4 x Rain Gutter B

Hardware

20 x #8 x 1" Pan Screw

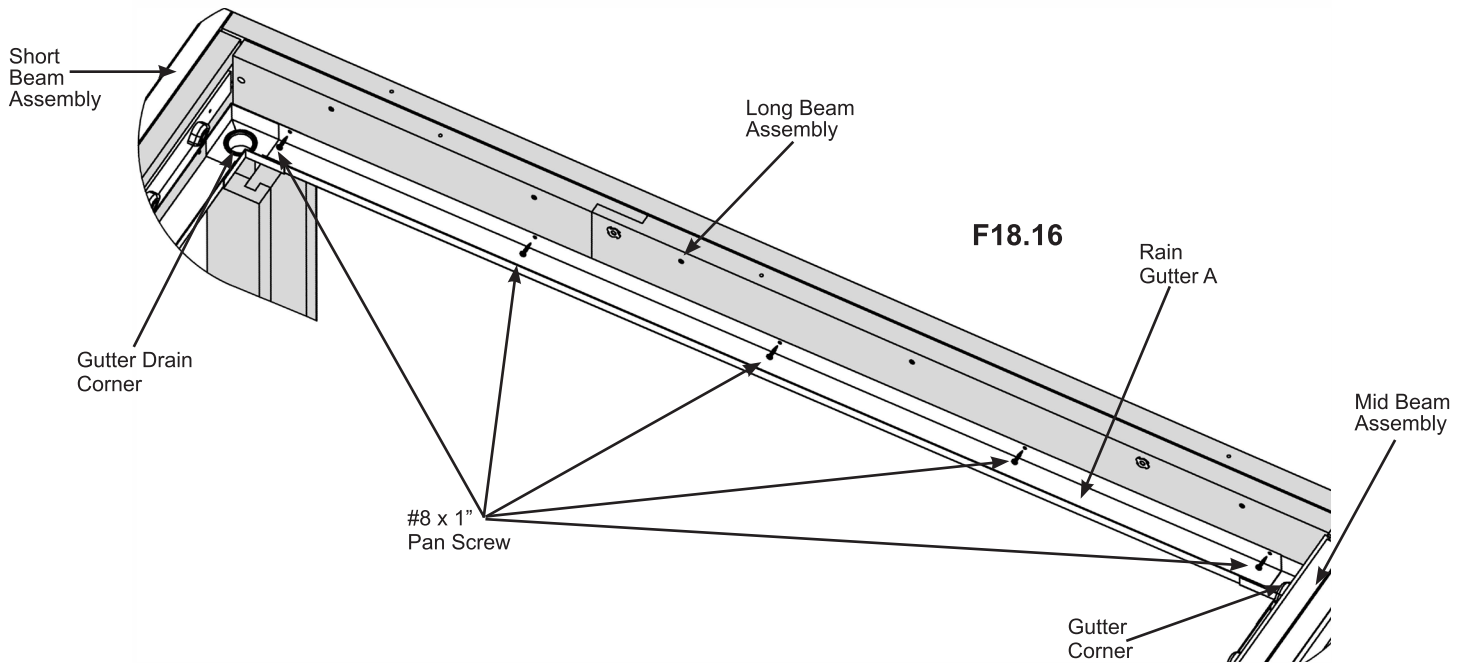
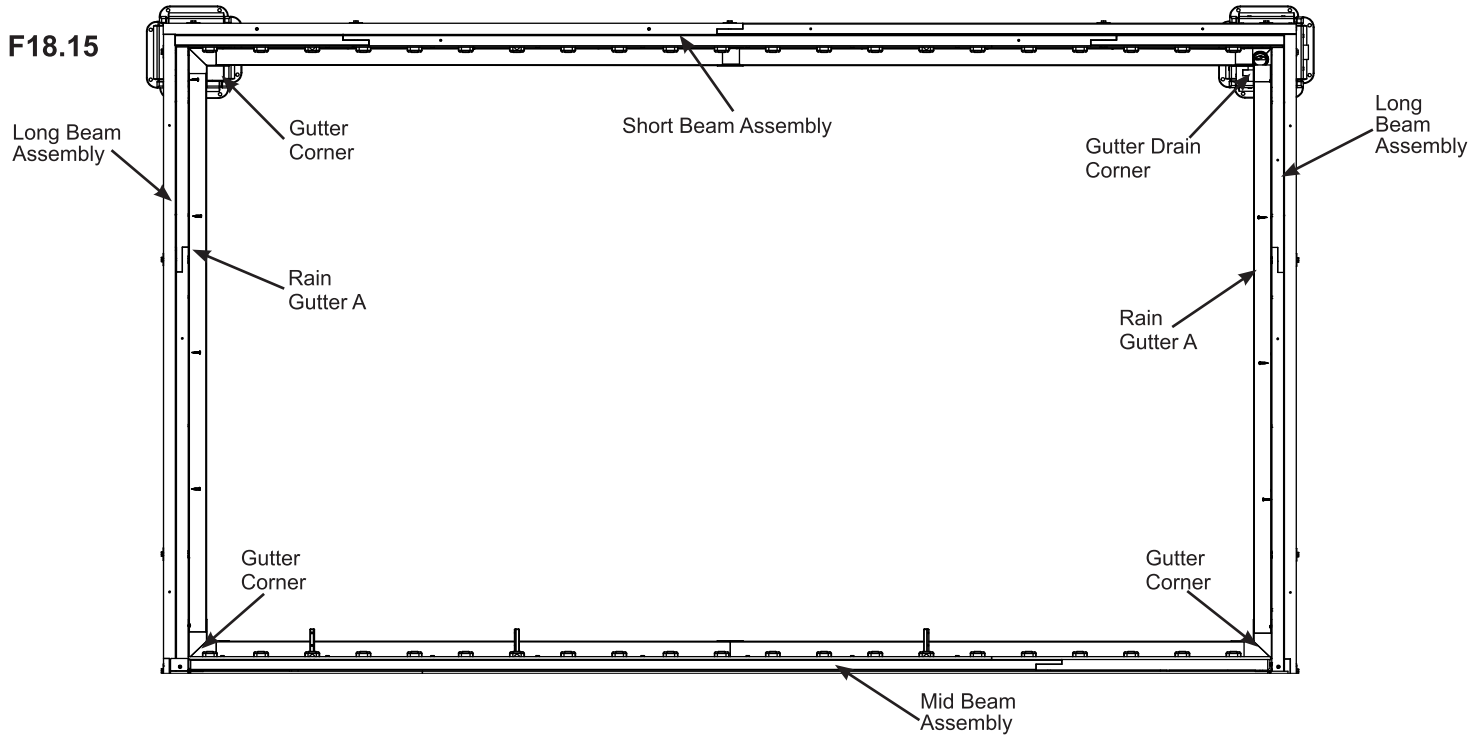
Step 18: Rain Gutter Assembly Part 4



J: On each Long Beam Assembly slide one Rain Gutter A into each Gutter Corner and Gutter Drain Corner then attach with five #8 x 1" Pan Screws. (F18.15 and F18.16)

K: Repeat Steps A - J for second side of the assembly.

F18.15



Components

4 x Rain Gutter A

Hardware

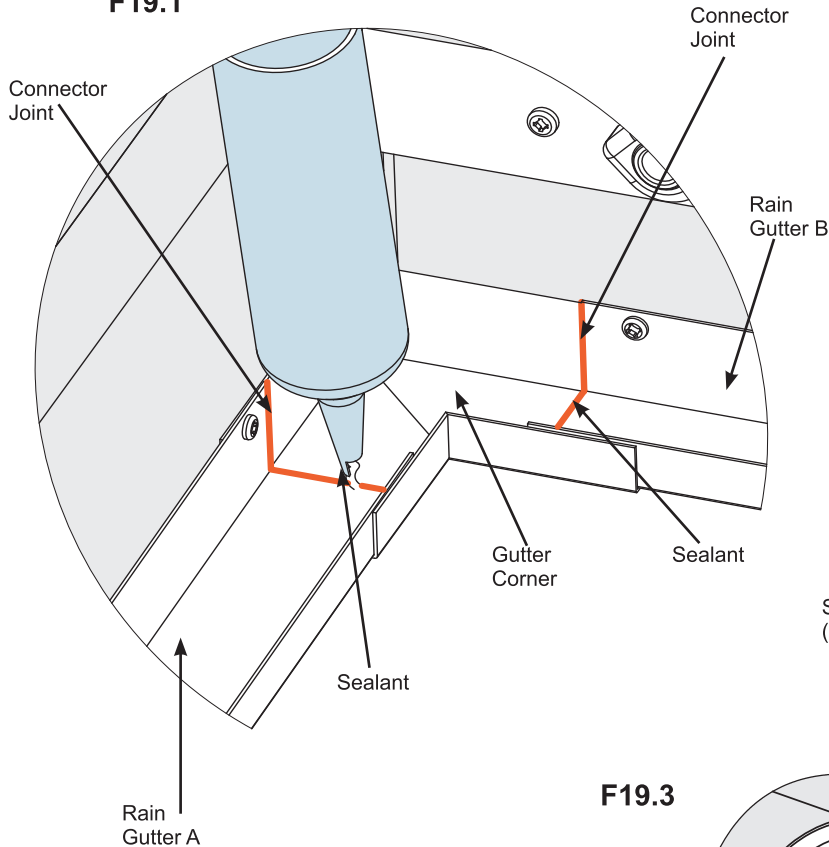
20 x #8 x 1" Pan Screw

Step 19: Apply Sealant Part 1

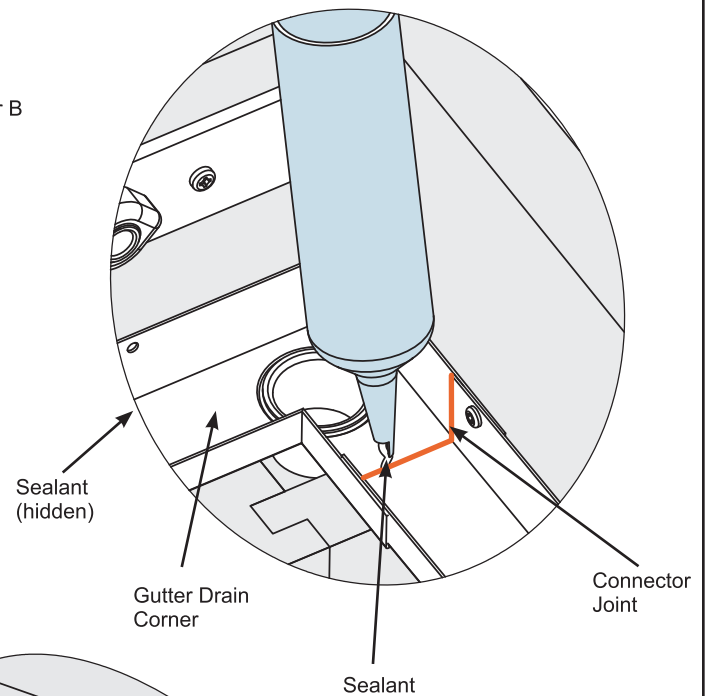


A: At each end of Rain Gutter A and Rain Gutter B apply a small, evenly distributed bead of sealant over the connector joints. Smooth sealant into the joint so it forms a continuous, water-tight seal. (F19.1, F19.2 and F19.3)

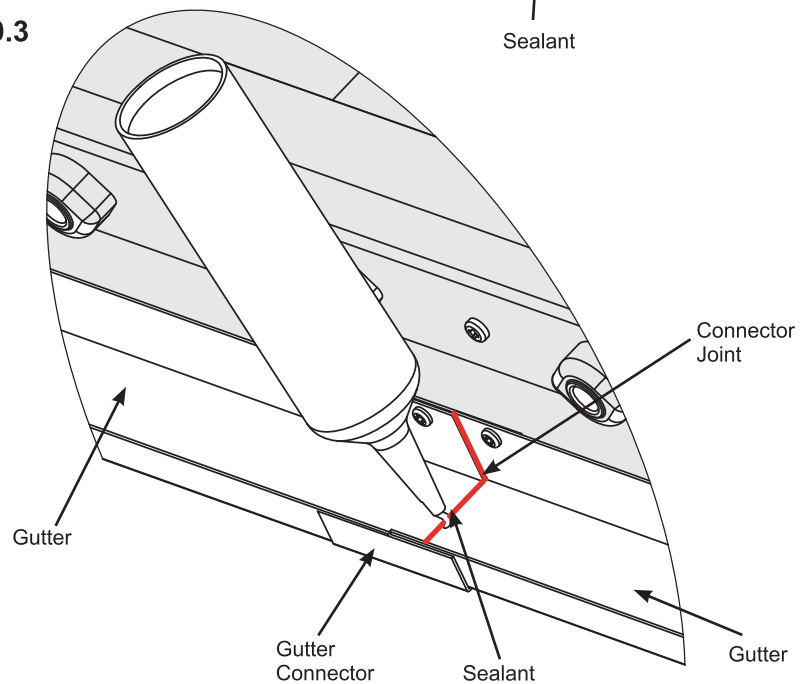
F19.1



F19.2



F19.3



Note: All surfaces to be clean, dry, dust and grease free before application with temperatures above 5°C (41°F), no warmer than 35°C (95°F).

- Apply sealant in small beads and smooth as required.
- Clean excess with a cloth or paper towel before it skins over.
- Always wear safety glasses and rubber gloves when using product.

See page 6 for Warning and First Aid Information.

Components

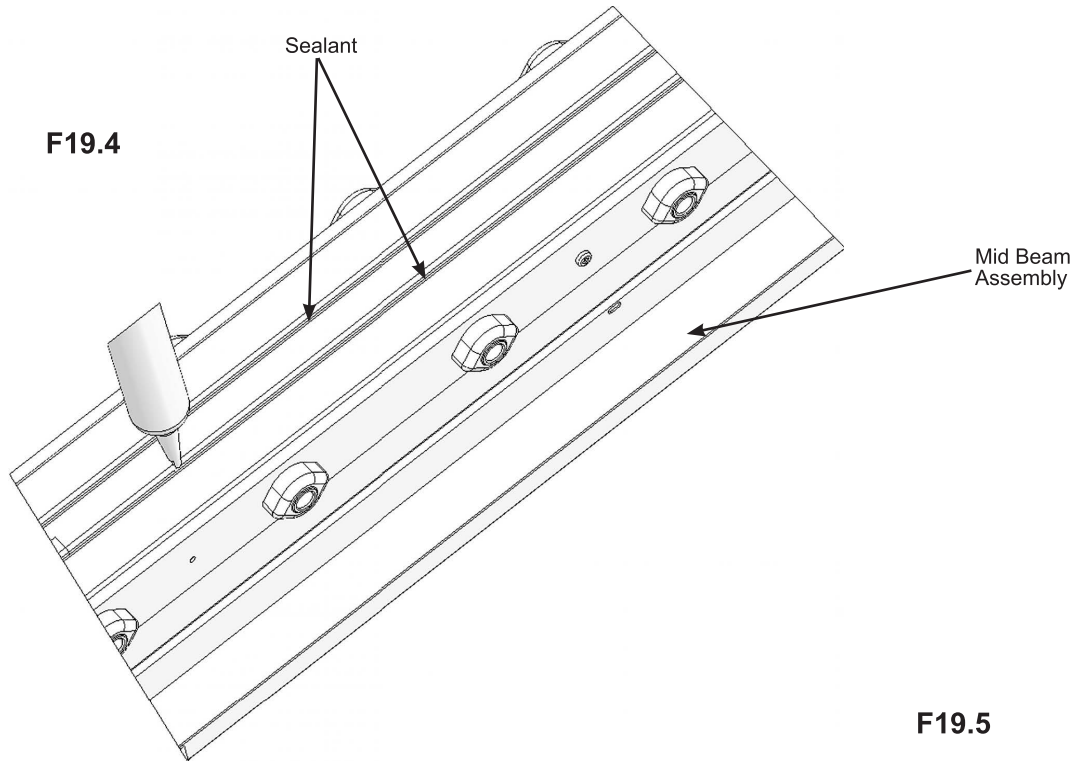
Sealant

Step 19: Apply Sealant Part 2



B: In the seam of the Mid Beam Assembly apply a small evenly distributed bead of sealant and smooth out so it forms a continuous, water-tight seal. (F19.4)

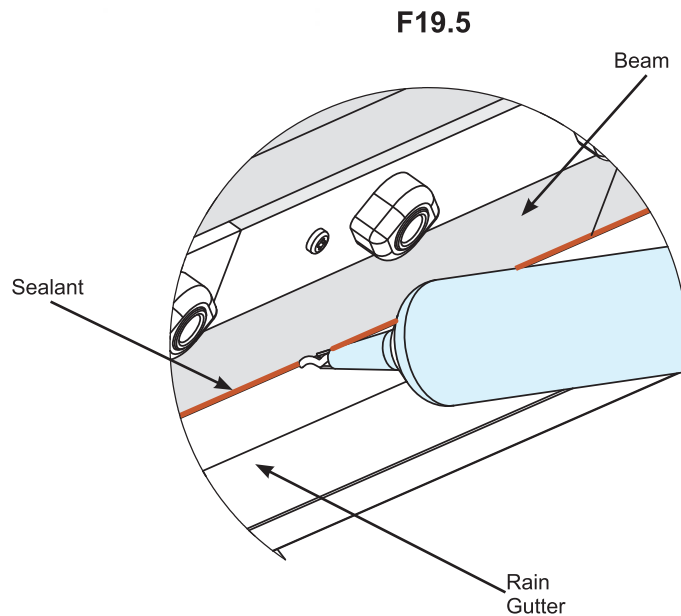
C: Along the tops of the Rain Gutters on both Short Beam Assemblies, both Long Beam Assemblies and each side of the Middle Beam, including the tops of the Gutter Corners and Gutter Drain Corners, apply a small evenly distributed bead of sealant, smoothing the sealant so it gets into the joints. (F19.5)



Note: All surfaces to be clean, dry, dust and grease free before application with temperatures above 5°C (41°F), no warmer than 35°C (95°F).

- Apply sealant in small beads and smooth as required.
- Clean excess with a cloth or paper towel before it skins over.
- Always wear safety glasses and rubber gloves when using product.

See page 6 for Warning and First Aid Information.



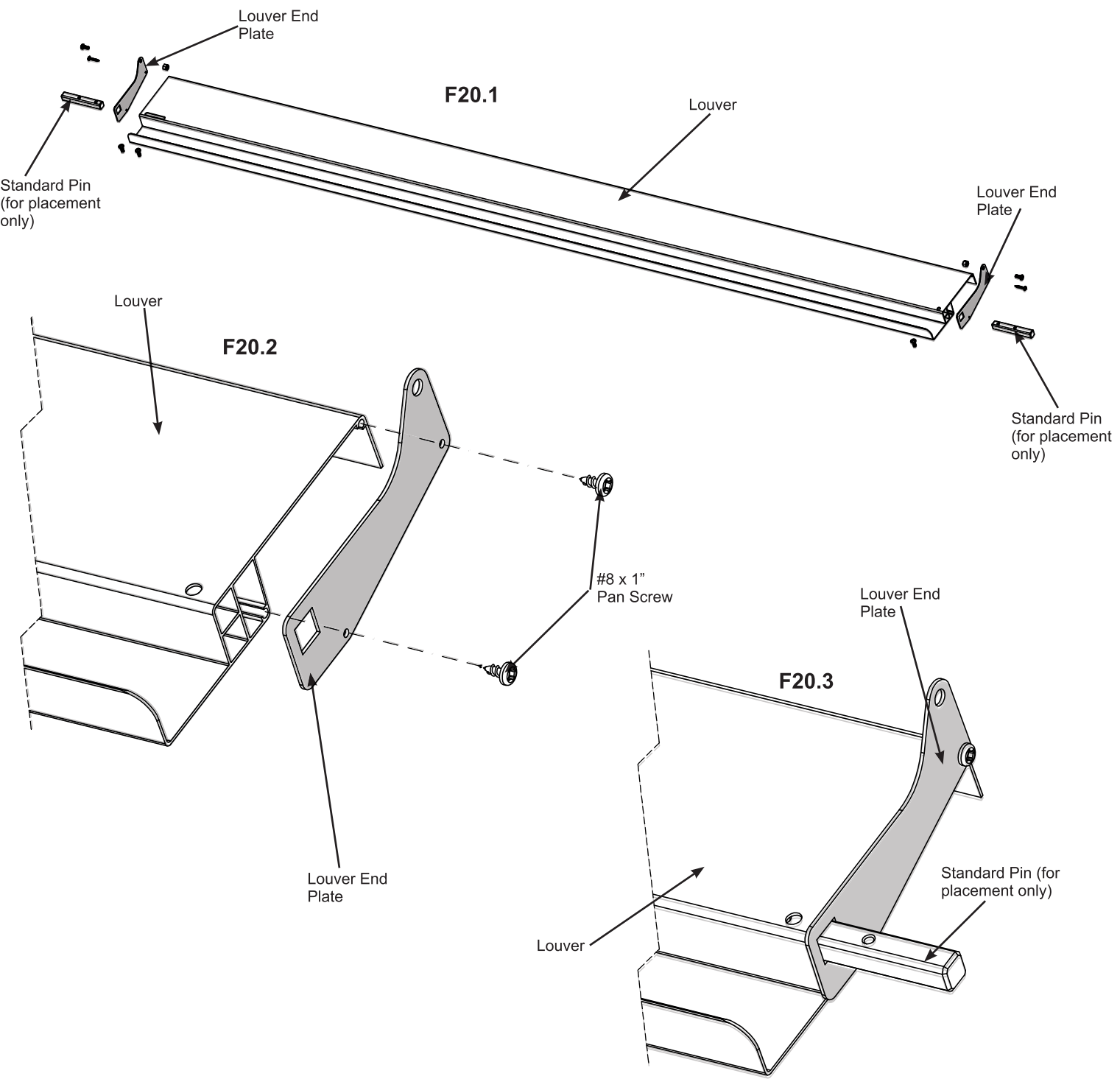
Components

Sealant

Step 20: Louver Assemblies

Part 1

A: On six Louvers attach one Louver End Plate to each end with two #8 x 1" Pan Screws per plate. Use a Standard Pin to help line up proper placement. Remove Standard Pin when Louver End Plate is secure. (F20.1, F20.2 and F20.3)



Components

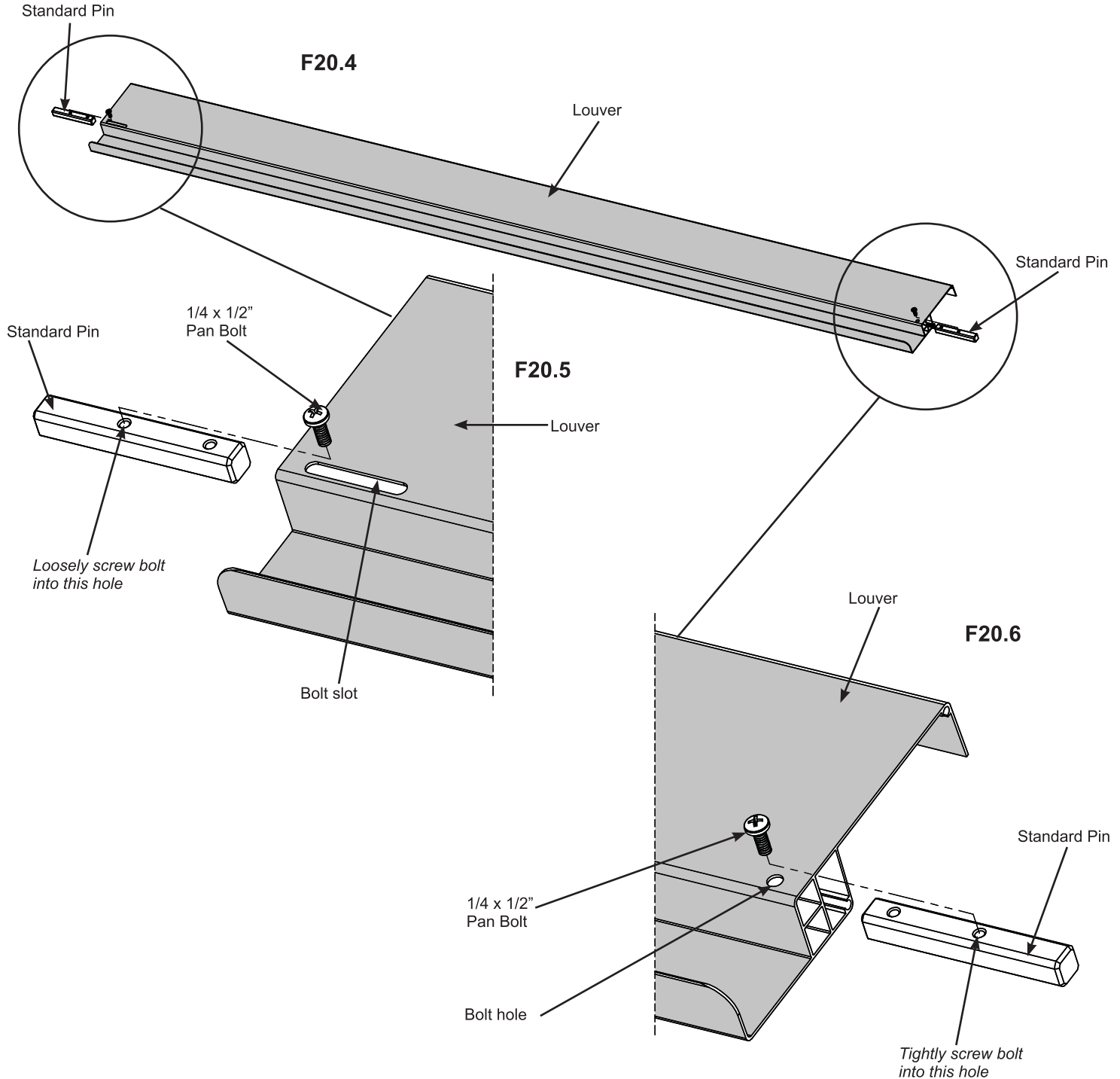
- 6 x Louver
- 12 x Louver End Plate

Hardware

- 24 x #8 x 1" Pan Screw

Step 20: Louver Assemblies Part 2

B: On the remaining 40 Louvers place one Standard Pin in the square slot at each end. Push pins all the way in to the second bolt hole. On the side of the Louver with the single bolt hole, tightly attach to pin with one 1/4 x 1/2" Pan Bolt. On the side of the Louver with the bolt slot, loosely attach to pin with one 1/4 x 1/2" Pan Bolt. Notice which end of Standard Pin is inserted in Louvers. (F20.4, F20.5 and F20.6)



Components

40 x Louver
80 x Standard Pin

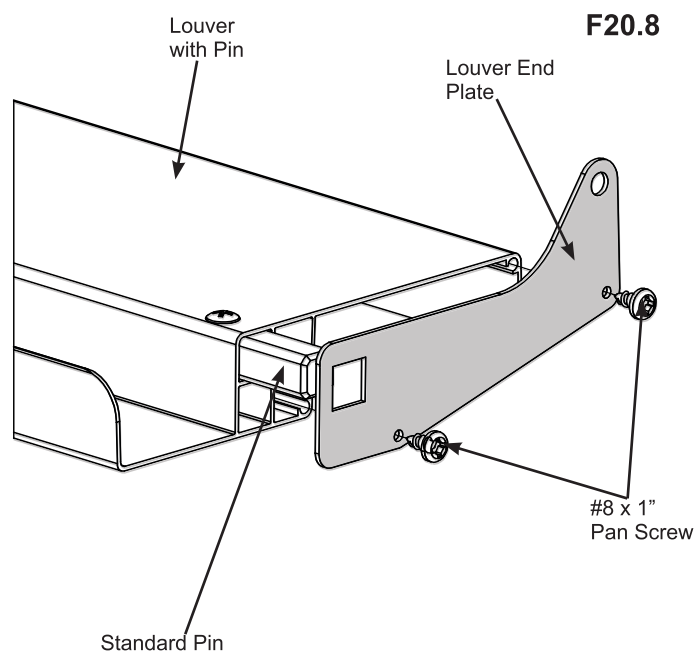
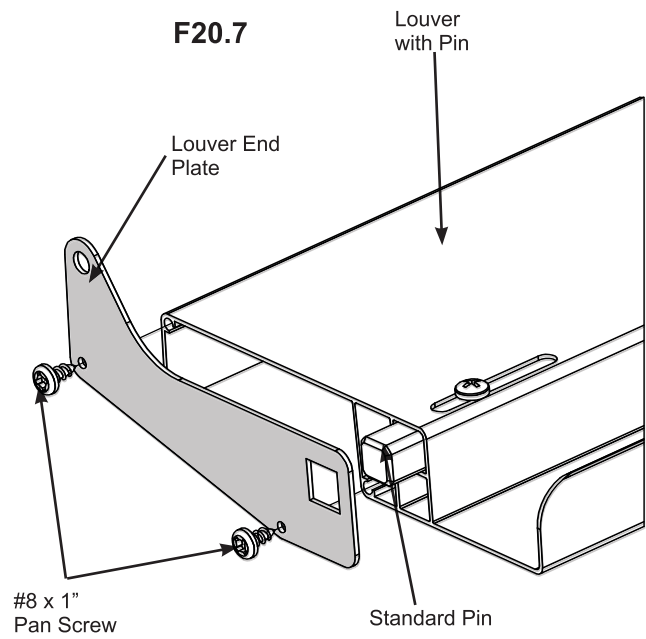
Hardware

80 x 1/4 x 1/2" Pan Bolt

Step 20: Louver Assemblies

Part 3

C: Place one Louver End Plate at each end of the Louvers, fitting over the pins then attach with two #8 x 1" Pan Screws per plate. (F20.7 and F20.8)



Components

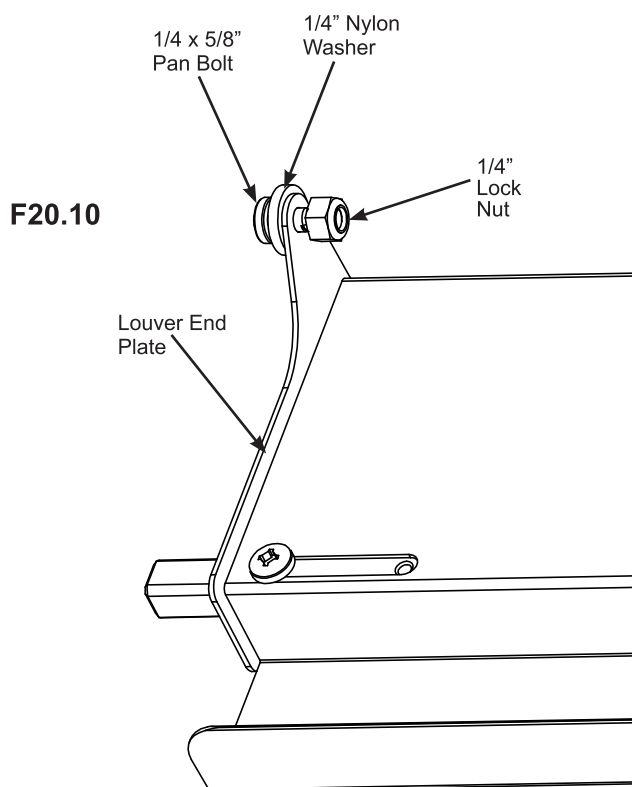
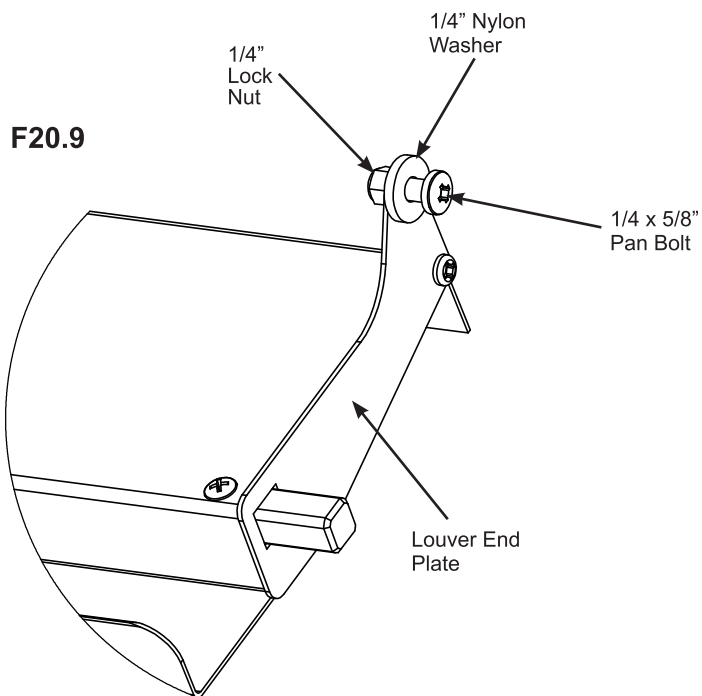
80 x Louver End Plate

Hardware

160 x #8 x 1" Pan Screw

Step 20: Louver Assemblies Part 4

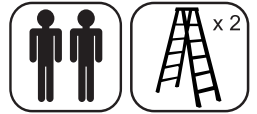
D: On each Louver End Plate loosely attach one 1/4 x 5/8" Pan Bolt (with nylon washer and 1/4" lock nut) per plate. (F20.9 and F20.10)



Hardware

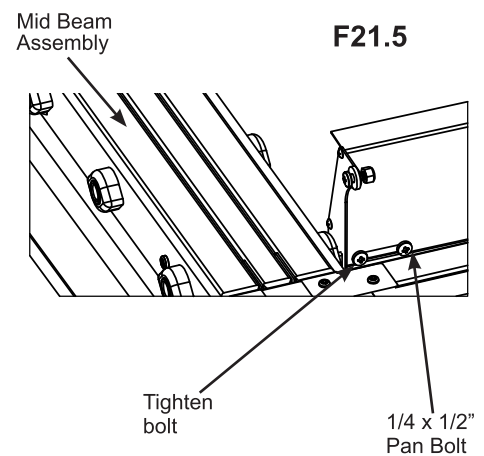
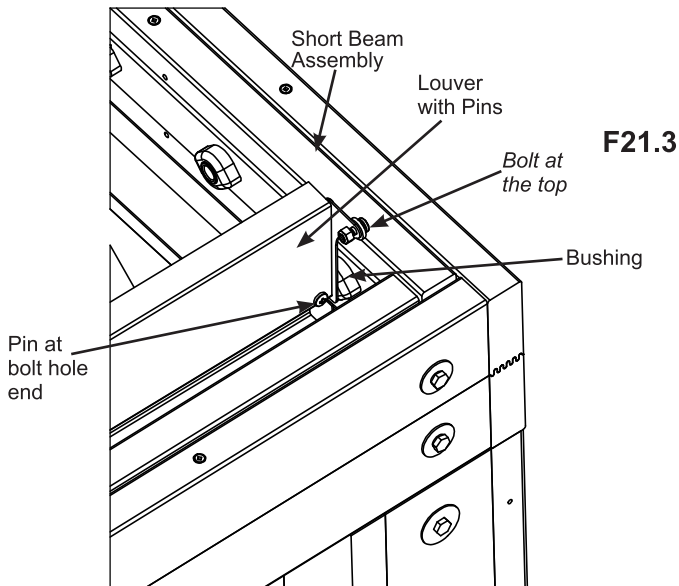
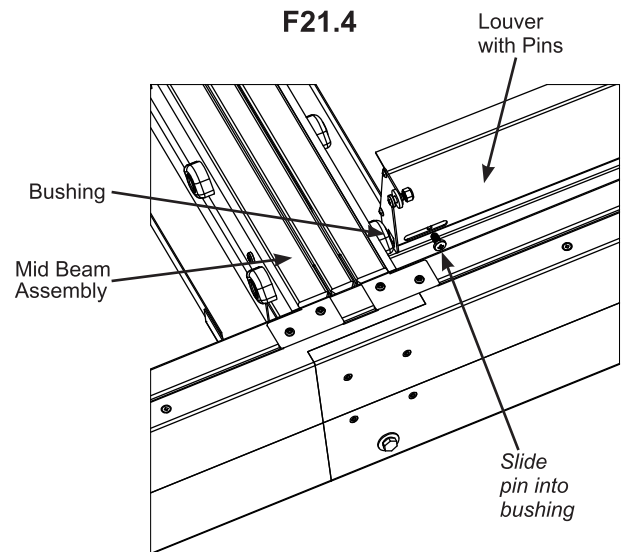
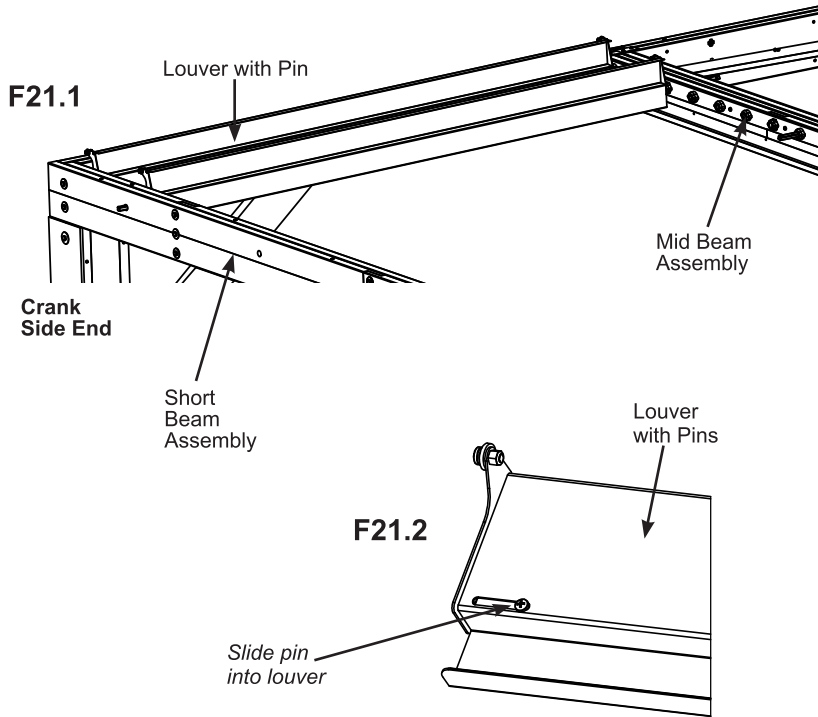
92 x 1/4 x 5/8" Pan Bolt
(1/4" nylon washer, 1/4" lock nut)

Step 21: Attach Louver Assemblies Part 1



A: Starting at the Crank End Side, with one Louver with pins, bolt at the top. Move the pin in the screw slot end all the way into the Louver. Insert fully tightened pin at screw hole end into first bushing on the Short Beam Assembly. (F21.1, F21.2 and F21.3)

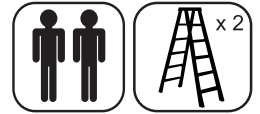
B: Slide the pin on the screw slot end out of the Louver and into the first bushing on the Mid Beam Assembly and tighten screw. Attach one 1/4 x 1/2" Pan Bolt into Standard Pin through screw slot. Both screws should be tight. (F21.1, F21.4 and F21.5)



Hardware

2 x 1/4 x 1/2" Pan Bolt

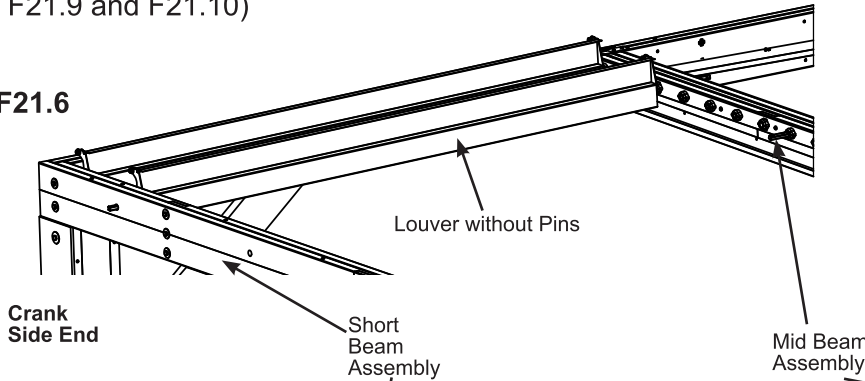
Step 21: Attach Louver Assemblies Part 2



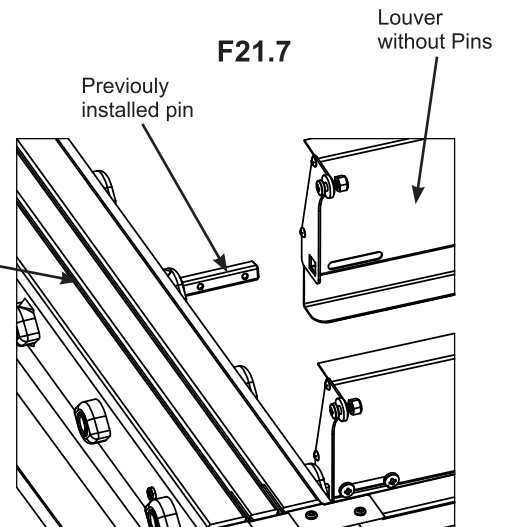
C: At the third bushing place one Louver without pins so the end with the screw slot fits over the pin previously installed on the Mid Beam Assembly. Attach with two 1/4 x 1/2" Pan Bolts. (F21.6, F21.7 and F21.8)

D: Through the outside of the Short Beam Assembly insert one Drive Pin through the bushing with the arrow on top and into the Louver without pins. Attach with one 1/4 x 1/2" Pan Bolt into second hole of Drive Pin. (F21.6, F21.9 and F21.10)

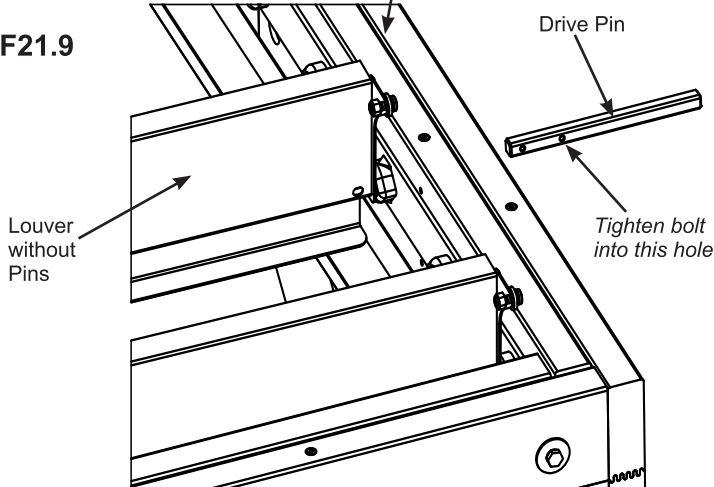
F21.6



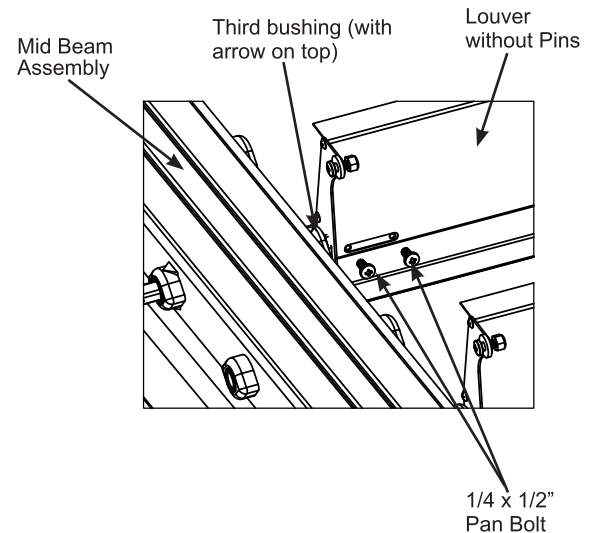
F21.7



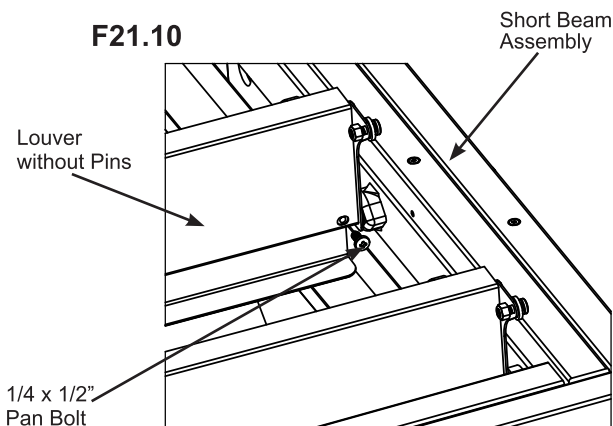
F21.9



F21.8



F21.10



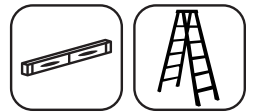
Components

2 x Drive Pin

Hardware

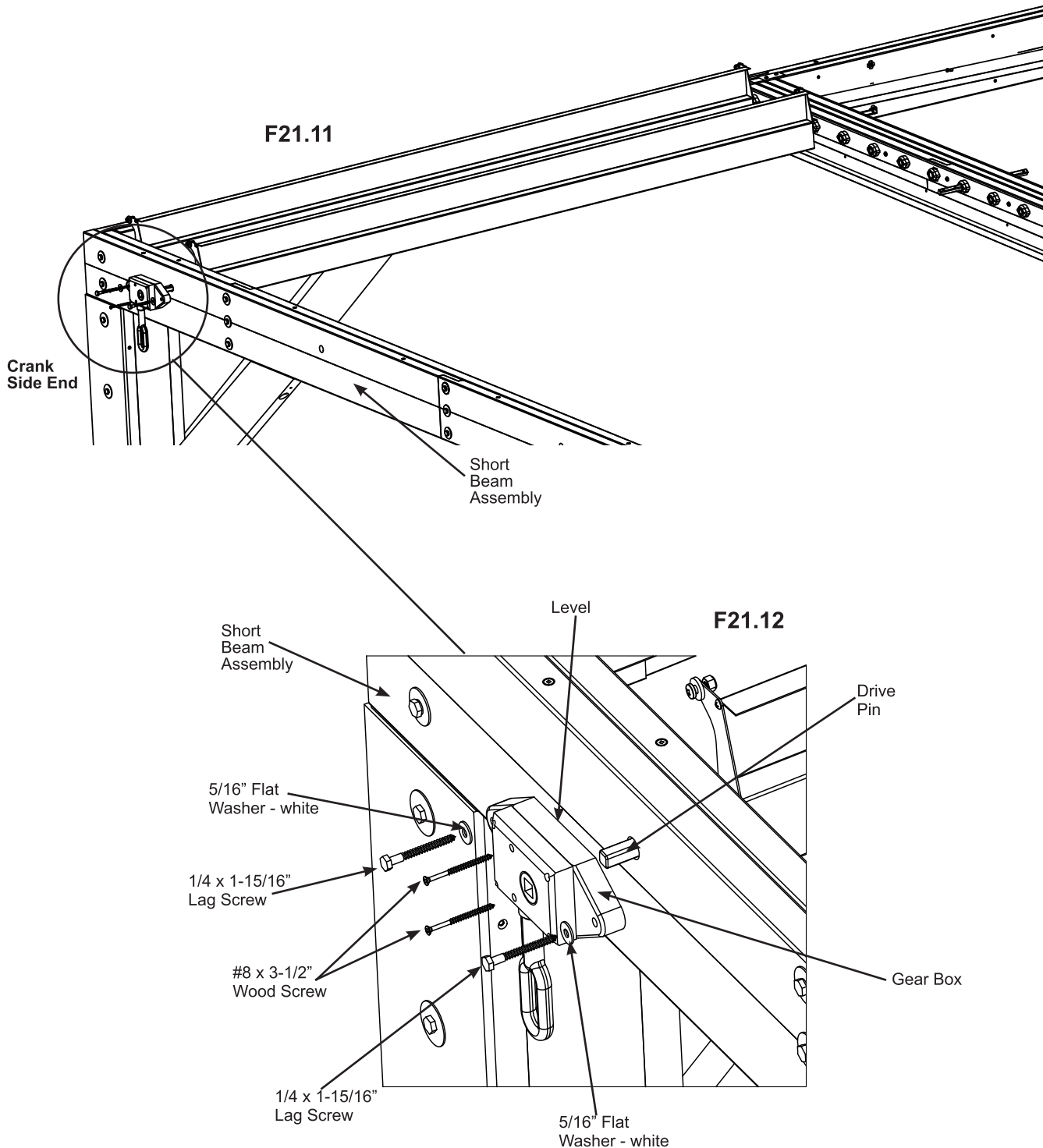
6 x 1/4 x 1/2" Pan Bolt

Step 21: Attach Louver Assemblies Part 3



E: Place one Gear Box over the Drive Pin, make sure it is level then attach to Short Beam Assembly with two 1/4 x 1-15/16" Lag Screws (with 5/16" flat washer - white) and two #8 x 3-1/2" Wood Screws. (F21.11 and F21.12)

Crank Handle can be attached at this time.



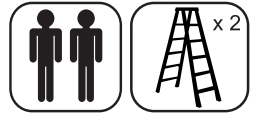
Components

2 x Gear Box

Hardware

4 x 1/4 x 1-15/16" Lag Screw (5/16" flat washer - white)
4 x #8 x 3-1/2" Wood Screw

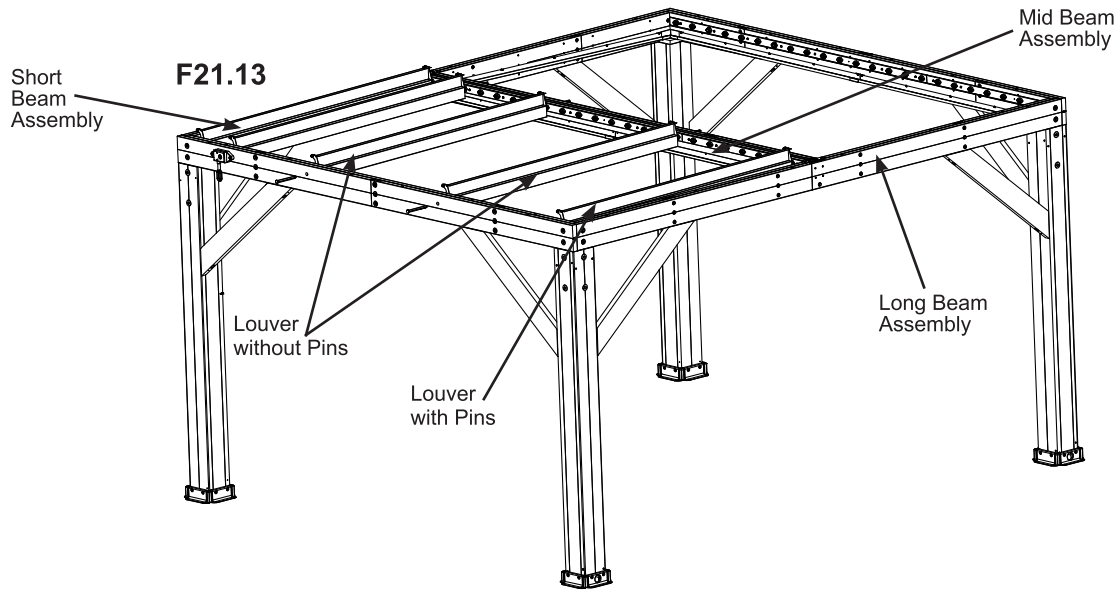
Step 21: Attach Louver Assemblies Part 4



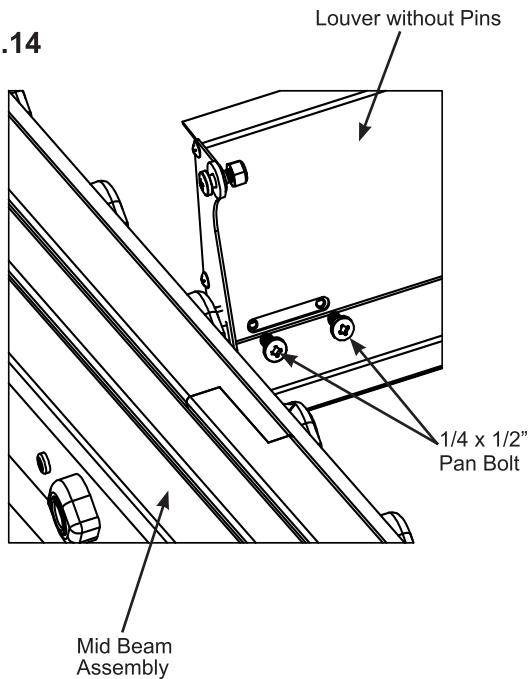
F: Place two Louvers without pins so the end with the screw slot fits over the pins previously installed on the Mid Beam Assembly. Attach with two 1/4 x 1/2" Pan Bolts. (F21.13 and F21.14)

G: Through the outside of the Short Beam Assembly insert one Long Pin, per louver, through the bushing and into the Louver without pins. Attach with one 1/4 x 1/2" Pan Bolt. (F21.13 and F21.15)

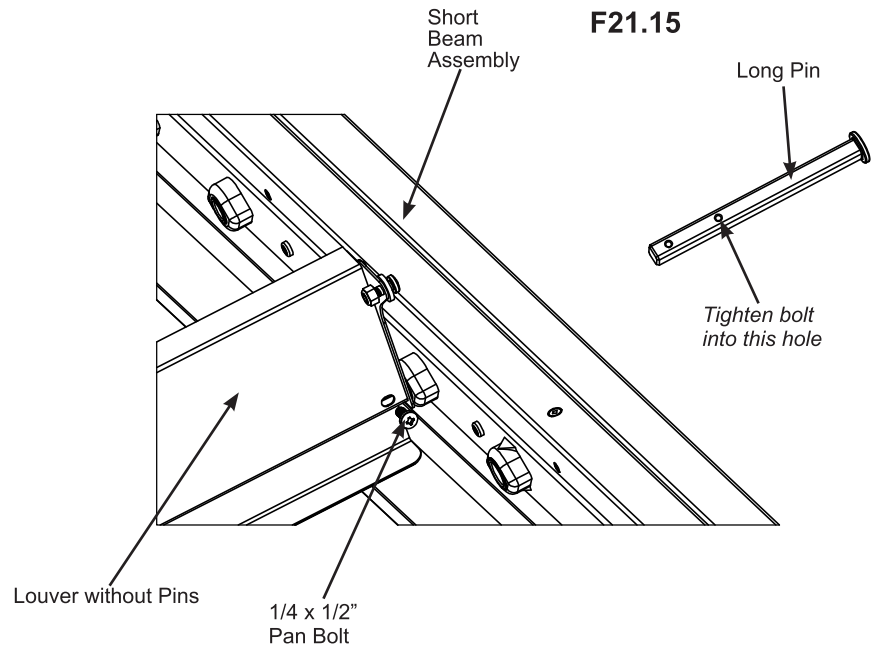
H: Attach one Louver with pins to the last spot (next to the Long Beam Assembly) as completed in Steps A and B (page 54).



F21.14



F21.15



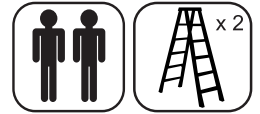
Components

4 x Long Pin

Hardware

14 x 1/4 x 1/2" Pan Bolt

Step 21: Attach Louver Assemblies Part 5

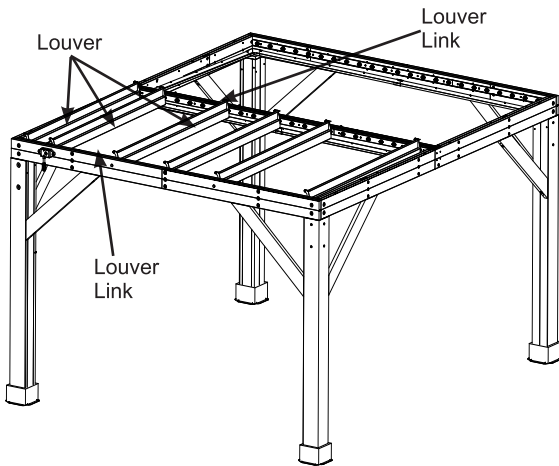


I: Using the bolts, nylon washers and lock nuts previously attached to the tops of the Louver End Plates, connect one Louver Link to each end of the first three louvers. Lock nuts to be flush to end of bolt. The flange on the Louver Link to point away from Louvers. (F21.16, F21.17 and F21.18)

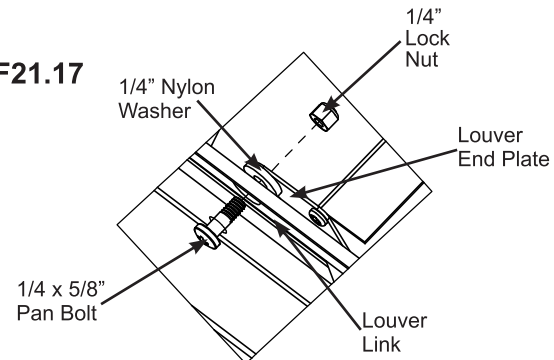
J: At the end of the Louver Link attach one Louver with pins to the beams as completed for the first in Steps A and B. (page 54)

K: Connect one Louver Link to each end of the louver installed in Step J as well as the previously installed Louver Links using the bolts, nylon washers and lock nuts previously attached to the tops of the Louver End Plates. Connect remaining louvers to Louver Links. (F21.17, F21.18 and F21.19)

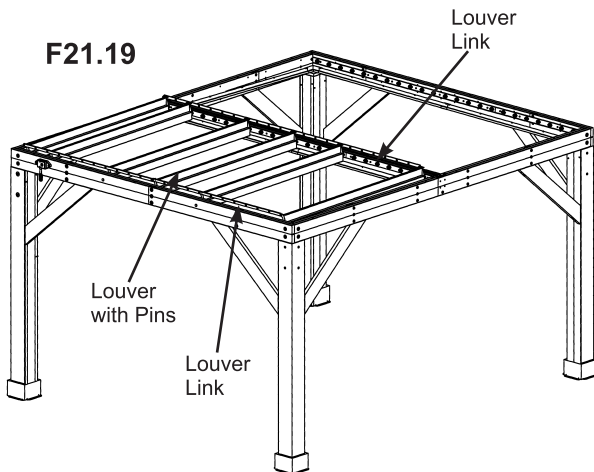
F21.16



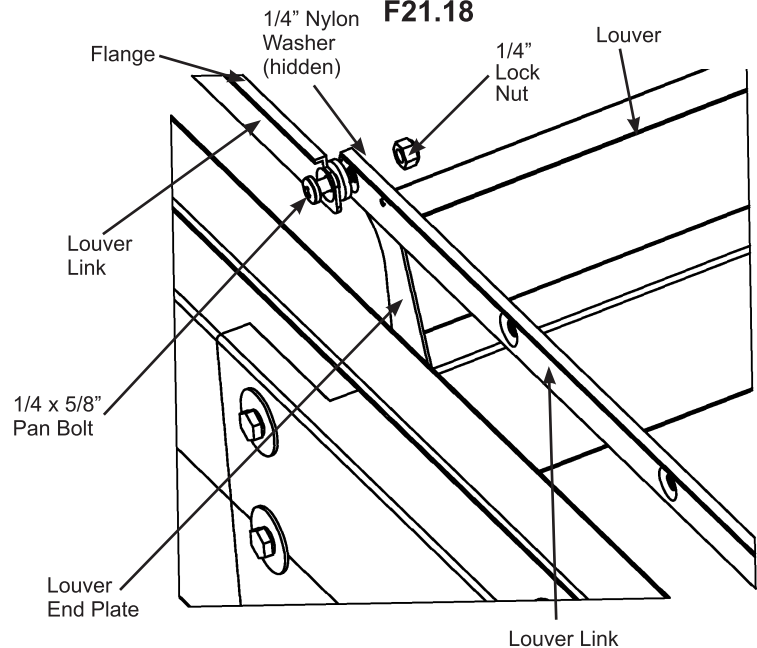
F21.17



F21.19



F21.18



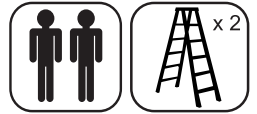
Components

8 x Louver Link

Hardware

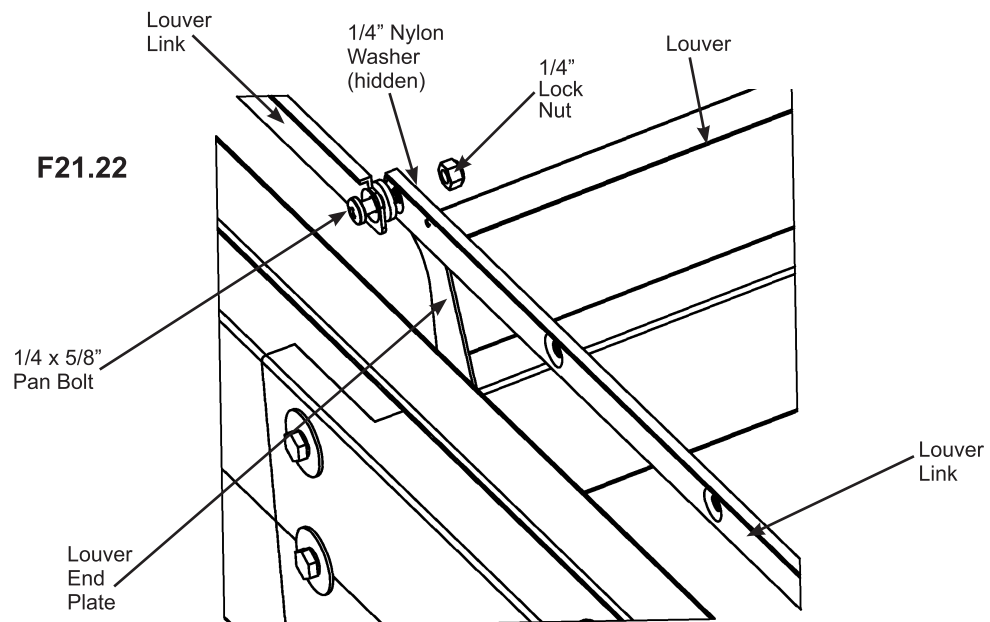
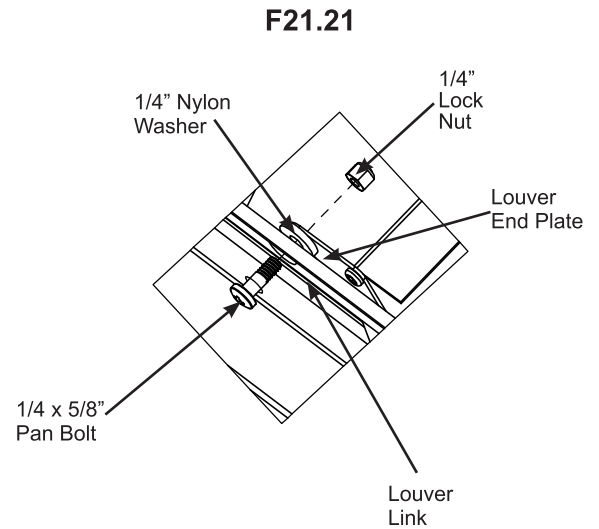
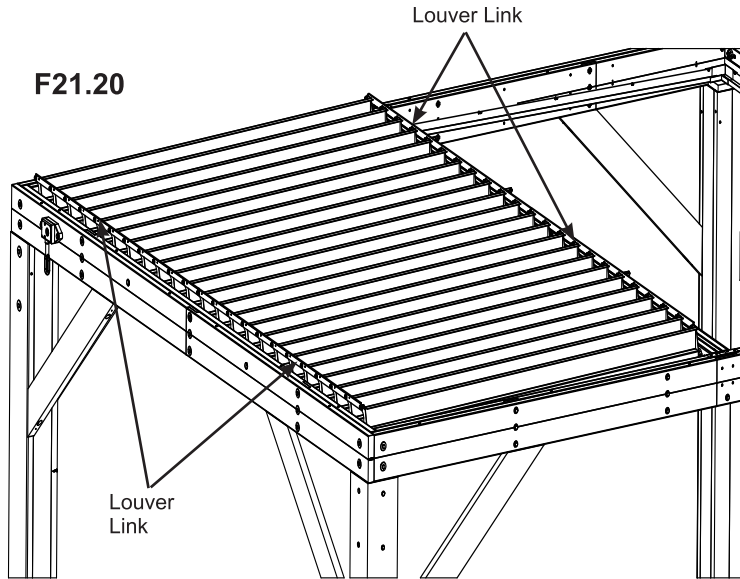
2 x 1/4 x 1/2" Pan Bolt

Step 21: Attach Louver Assemblies Part 6



L: Attach 17 remaining Louvers with pins to the beams on this side of the assembly as described for the first in Steps A and B. (page 54)

M: Connect remaining louvers to Louver Links with previously attached bolts, nylon washer and lock nuts. (F21.20, F21.21 and F21.22)



Hardware

34 x 1/4x 1/2" Pan Bolt

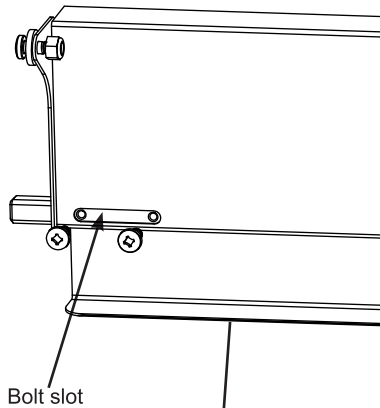
Step 22: Attach Louver Assemblies - Second Side



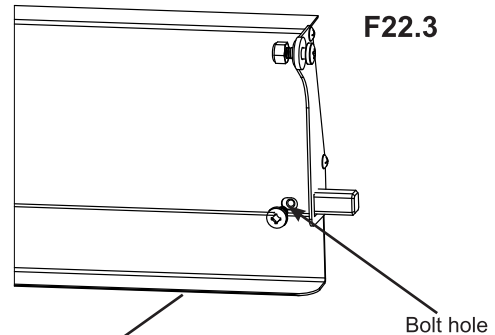
A: Repeat Step 21 (A - M) for the second side of the assembly.

B: When connecting the Louvers with and without pins for this side make sure end with bolt slot (2 bolts) is attached to the Short Beam Assembly and the end with the single bolt hole is attached to the Mid Beam Assembly. If they are not attached in this order they will not turn properly. (F22.1, F22.2 and F22.3)

F22.2



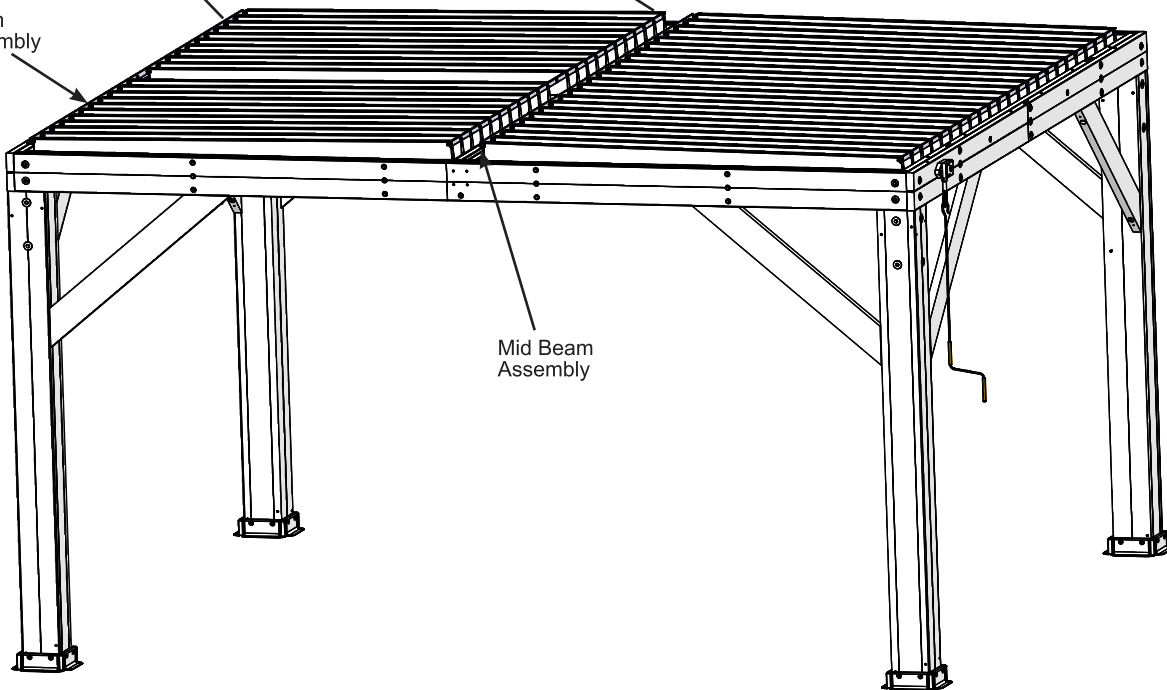
F22.3



F22.1

Short
Beam
Assembly

Mid Beam
Assembly

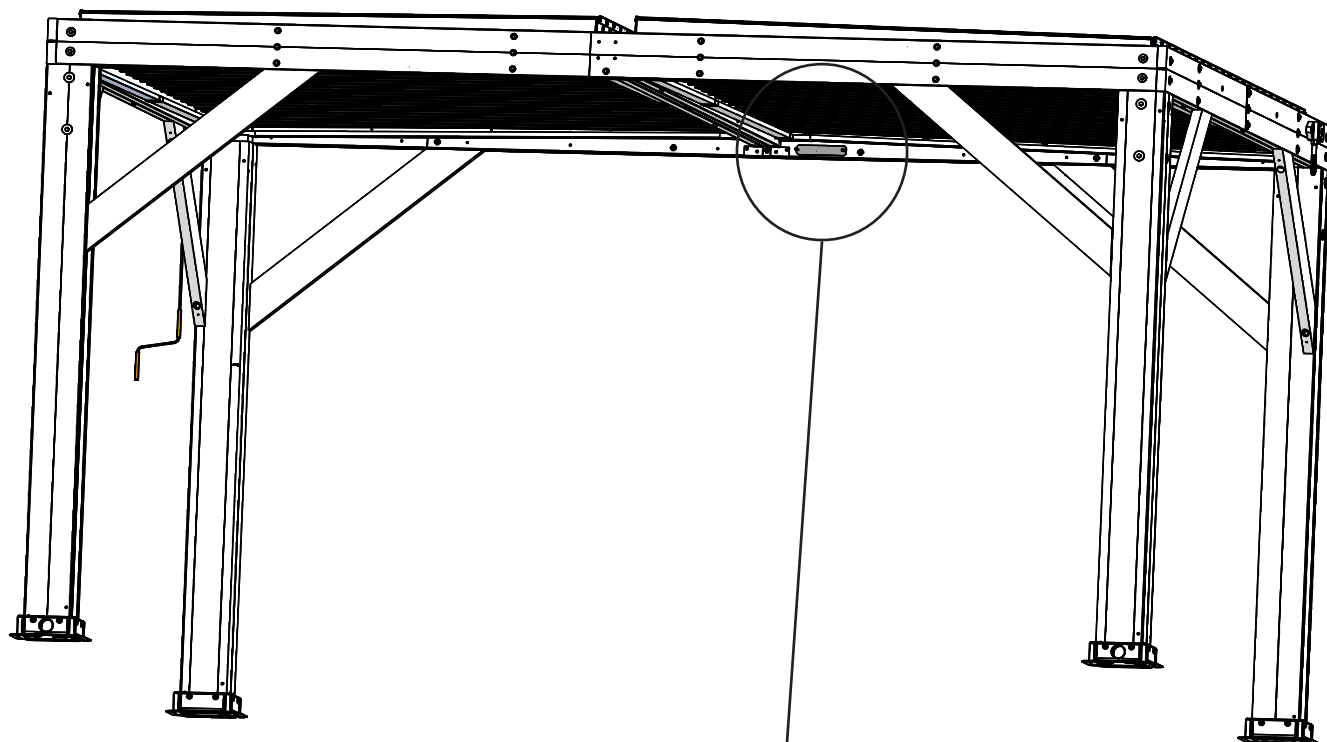


Step 23: Attach ID Plaque

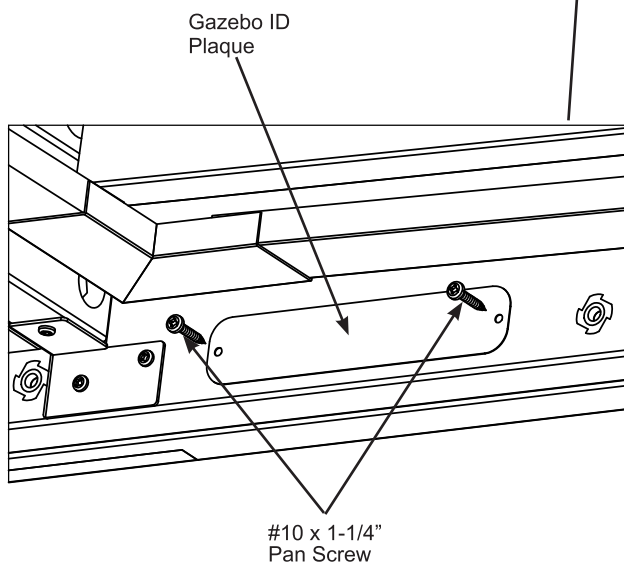


A: Attach Gazebo ID Plaque to a prominent location on your gazebo with two #10 x 1-1/4" Pan Screws. This provides warnings concerning safety and important contact information. A tracking number is provided to allow you to get critical information or order replacement parts for this specific model. (F23.1 and F23.2)

F23.1



F23.2



Components:

1 x Gazebo ID Plaque

Hardware

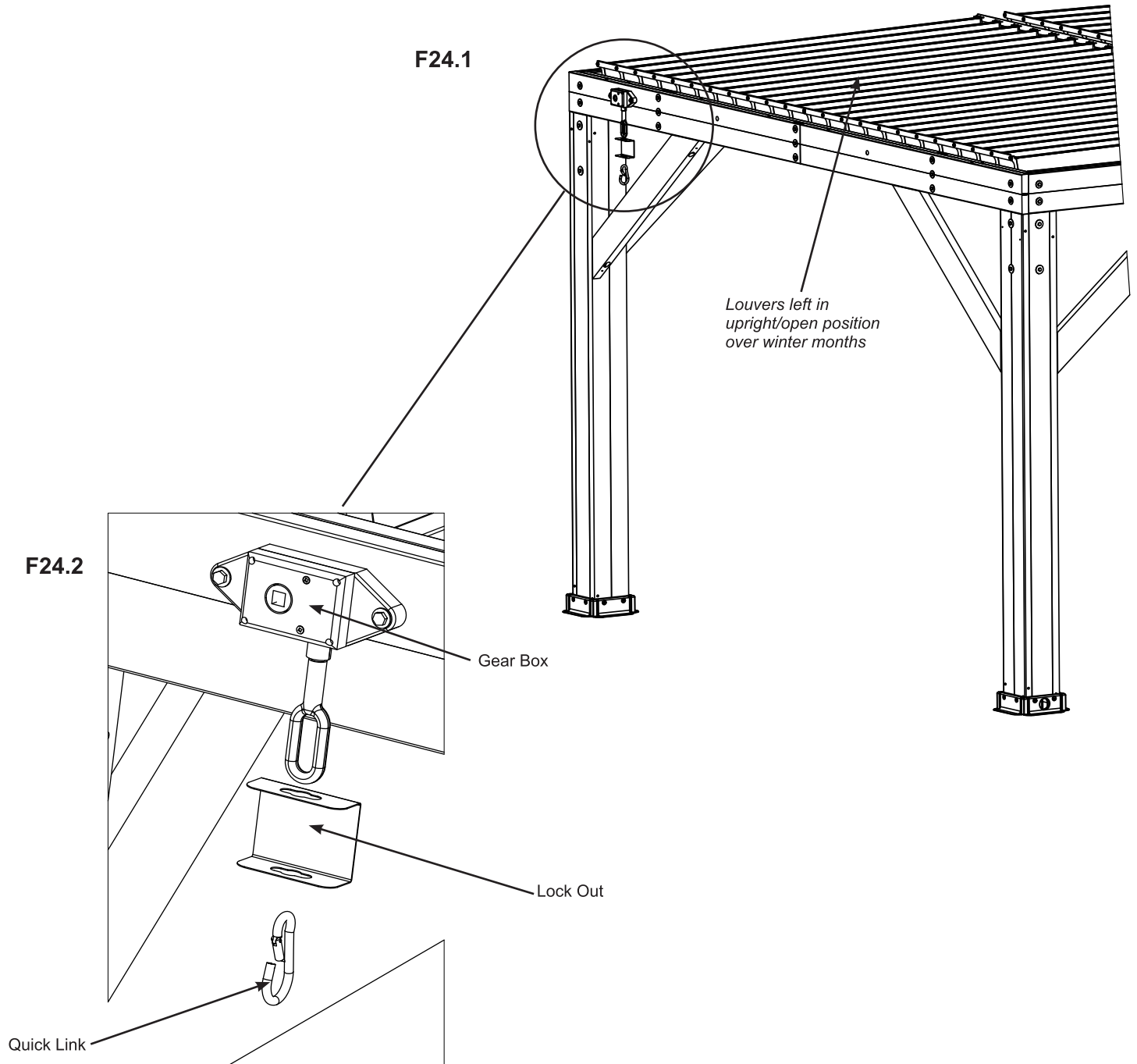
2 x #10 x 1-1/4" Pan Screw

Step 24: Gear Box Lockout and Winter Maintenance



A: To lock the Gear Box remove the Crank Handle then attach Lock Out to each Gear Box using the Quick Link to secure in place. (F24.1 and F24.2)

IMPORTANT! When preparing for high winds and/or winter conditions, turn the louvers to the open position (upright) then attach the Lock Out and Quick Link. This will prevent the structure from blowing over due to high winds and the louvers from breaking due to snow and ice loads. (F24.1 and F24.2)



Components:

- 2 x Lock Out
- 2 x Quick Link



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