



MAX ROLL BENCH
ASSEMBLY INSTALLATION
Complete Instructional Guide



!Attention!

Before starting the assembly of your benching system, check floor surface to ensure a level starting point. If your floors are damaged, heavily sloped or contain obstacles, you may have issues with proper bench setup. These issues should have been noted during the Floor Layout/Quoting phase and may need custom designed components to correct these issues.

SSG Horticulture is not liable for the replacement of parts and components.

Before starting the assembly of your benching system, ensure that Bench Assembly Layout and Staal & Plast tray gluing instruction packets are available prior to starting installation.

If not, please contact SSG Horticulture contact information located at the end of this instruction packet.



MAX ROLL BENCH ASSEMBLY INSTRUCTIONS

TOOLS NEEDED FOR ASSEMBLY



2+ PEOPLE NEEDED
for installation



1-2 HOURS
Depending on
Bench Length



7/16" & 3/4"
WRENCH &
SOCKETS



HAMMER DRILL
WITH 5/32
MASONRY BIT



TAPE MEASURE



UTILITY KNIFE



IMPACT DRILL
WITH BITS &
NUTS DRIVERS



VACUUM/
BLOWOUT BULB



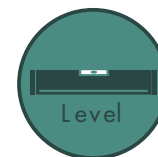
CAULK GUN



MALLET



POP RIVET GUN
*Pneumatic Rivet
Gun Suggested



2' LEVEL



MAX ROLL BENCH ASSEMBLY INSTRUCTIONS

PARTS LIST

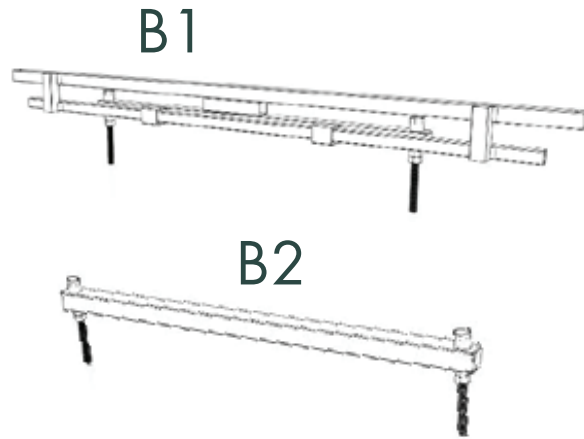
CONFIRM ALL PARTS ARE PRESENT BEFORE STARTING INSTALLATION

Group	Part	Description
		<i>Refer to Bench Assembly Layout/ Parts List for Lengths & Dimensions</i>
A		■ A1: Leg Units ■ A2: Load Bearing Plug ■ A3: Stringer Pipe 1" x 1" ■ *A4: Additional Stringer Pipe 1" x 1" ■ A5: Stringer Insert .813" x 5" Long ■ A6: Square to Square Clamp



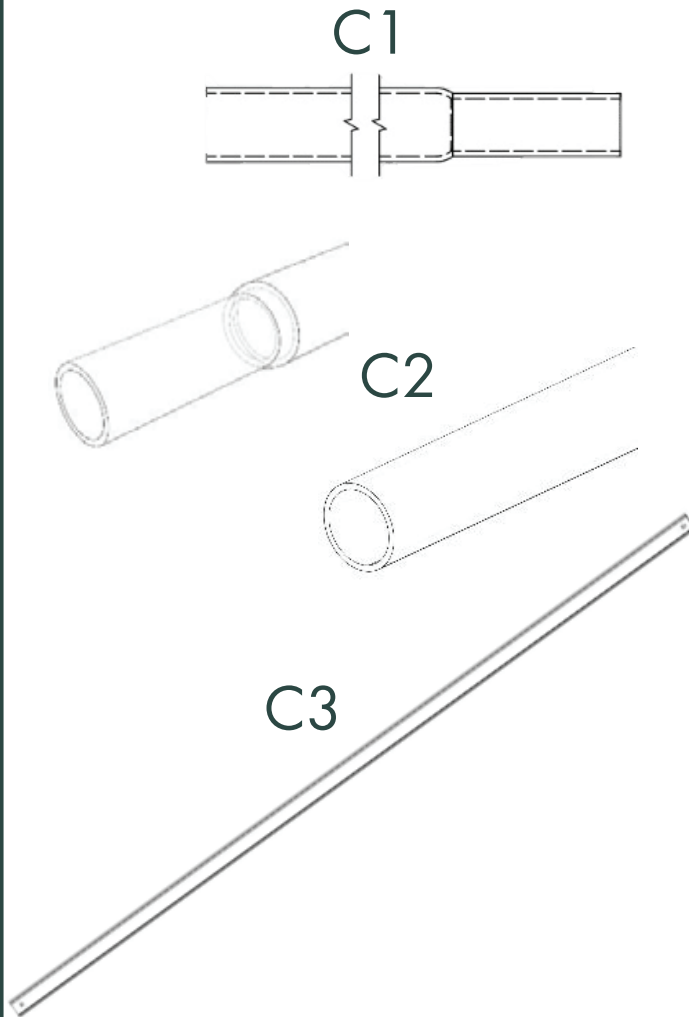
MAX ROLL BENCH ASSEMBLY INSTRUCTIONS

B



- B1: AntiTip System
- B2: Plain Header Unit

C



- C1: Rolling Pipe Swedged/Crimped End
- C2: Rolling Pipe Plain End
- C3: Bench Cross Bar



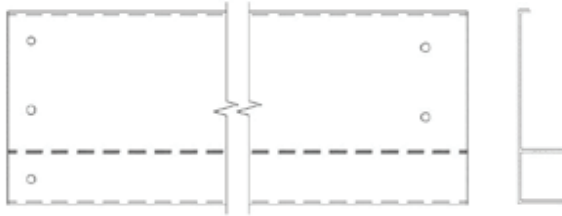
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D

D1



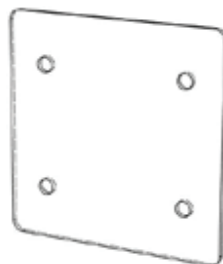
D2&3



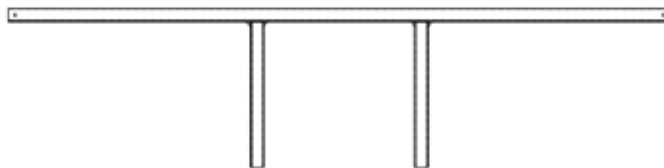
D4



D5



D6



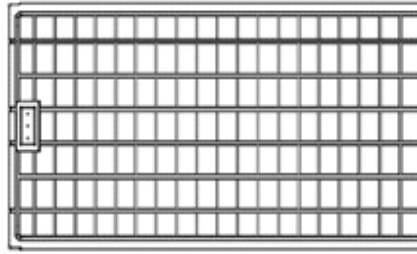
- D1: Bench Corner
- D2: Aluminum Side Rail – Longer with 3/2 hole combo on ends
- *D3: Additional Aluminum Side Rail
- D4: Aluminum End Rail – Shorter with 3/ hole combo on ends
- D5: Joiner Plates
- D6: End Frame (For 5' wide or wider benches only)



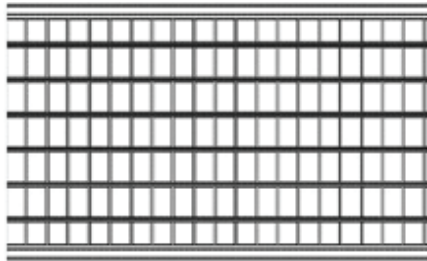
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E

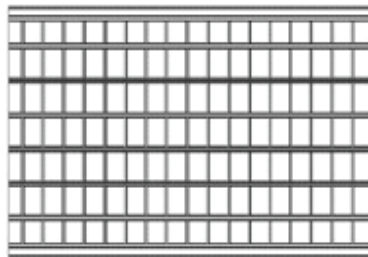
E1



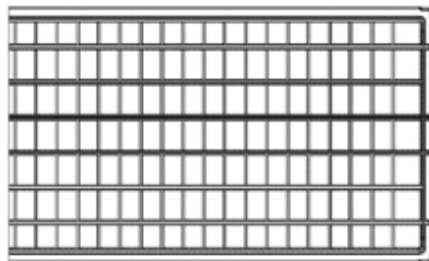
E2



E3



E4



- E1: End Tray with Well
- E2: Middle Tray
- E3: Filler Tray
- E4: End Tray No Well



MAX ROLL BENCH ASSEMBLY INSTRUCTIONS

F

F1



F2



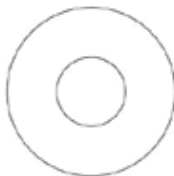
F3



F4



F5



F6



F7



F8



- F1: PopRivet
- F2: SelfTapping Screw
- F3: 1/4-20 Hex Nut
- F4: 1/4-20 x .75" Hex Screw
- F5: 1/2" Flat Washer
- F6: Tap Con 3/16 x 1-3/4"
- F7: Safety Chain
- F8: Angle Bracket



FOLLOW INSTRUCTIONS BELOW

STEP #1

Lay out Leg Units and Stringer Pipe

- Before (A1) Leg Units are removed from bundle, install (A2) Load Bearing Plugs into uncrimped ends.
- (A2) Load Bearing Plugs to be inserted in non-crimped bottom two openings. Shown Fig. 1a.
- Note: Mallet may be used to help seat (A2) Load Bearing Plugs onto (A1) Legs Units

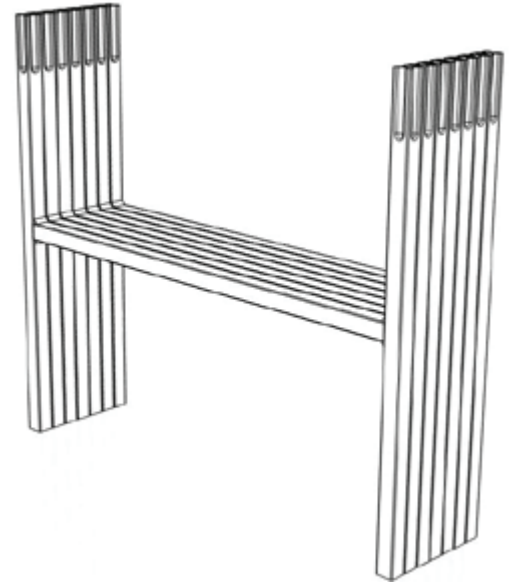
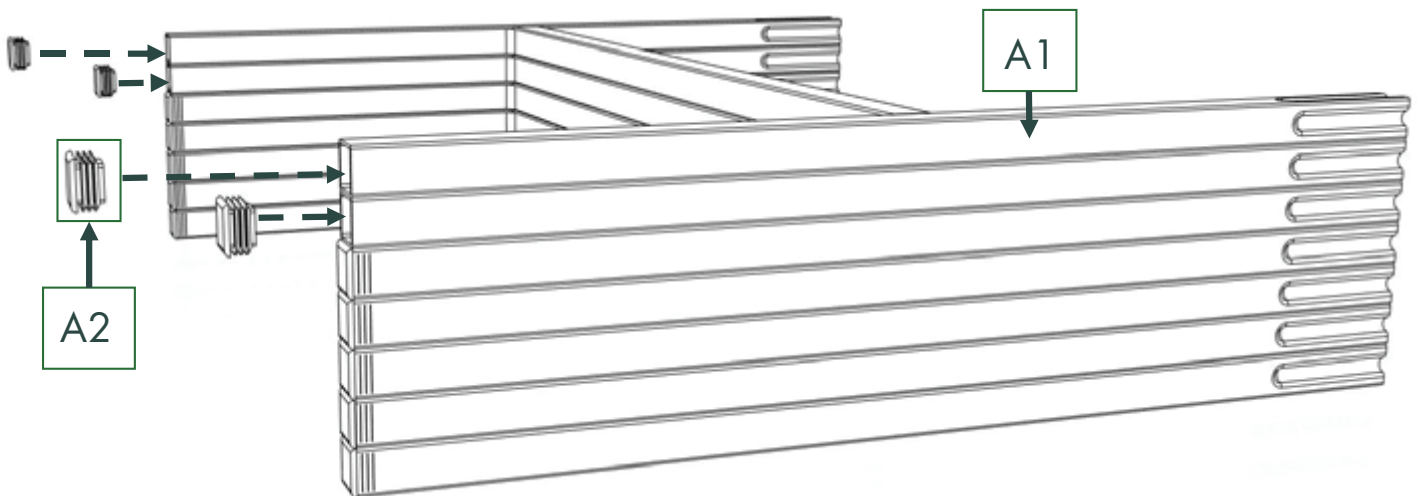


Fig. 1a.





MAX ROLL BENCH ASSEMBLY INSTRUCTIONS

STEP #2

Assemble Stringer Pipe

- *If applicable join (A3 & A4) Stringer Pipe & Stringer Extension together with (A5) Stringer Insert. Reference your customized Bench Assembly Layout for Stringer measurements. Mark (A5) Stringer Insert at $2\frac{1}{2}"$ from one end and install into (A3) stringer. Once the mark reaches the end of stringer install (F2) Self Tapping Screw $1\frac{3}{4}"$ from stringer end. Insert (A4) Additional Stringer Pipe over (A5) insert, install (F2) Self Tapping Screw at $1\frac{3}{4}"$ from center seam. Shown Fig. 2a.
- Insert (A2) Load Bearing Plug into either end of (A3 & A4) Stringer Pipe Shown Fig. 2b.

Fig. 2a.

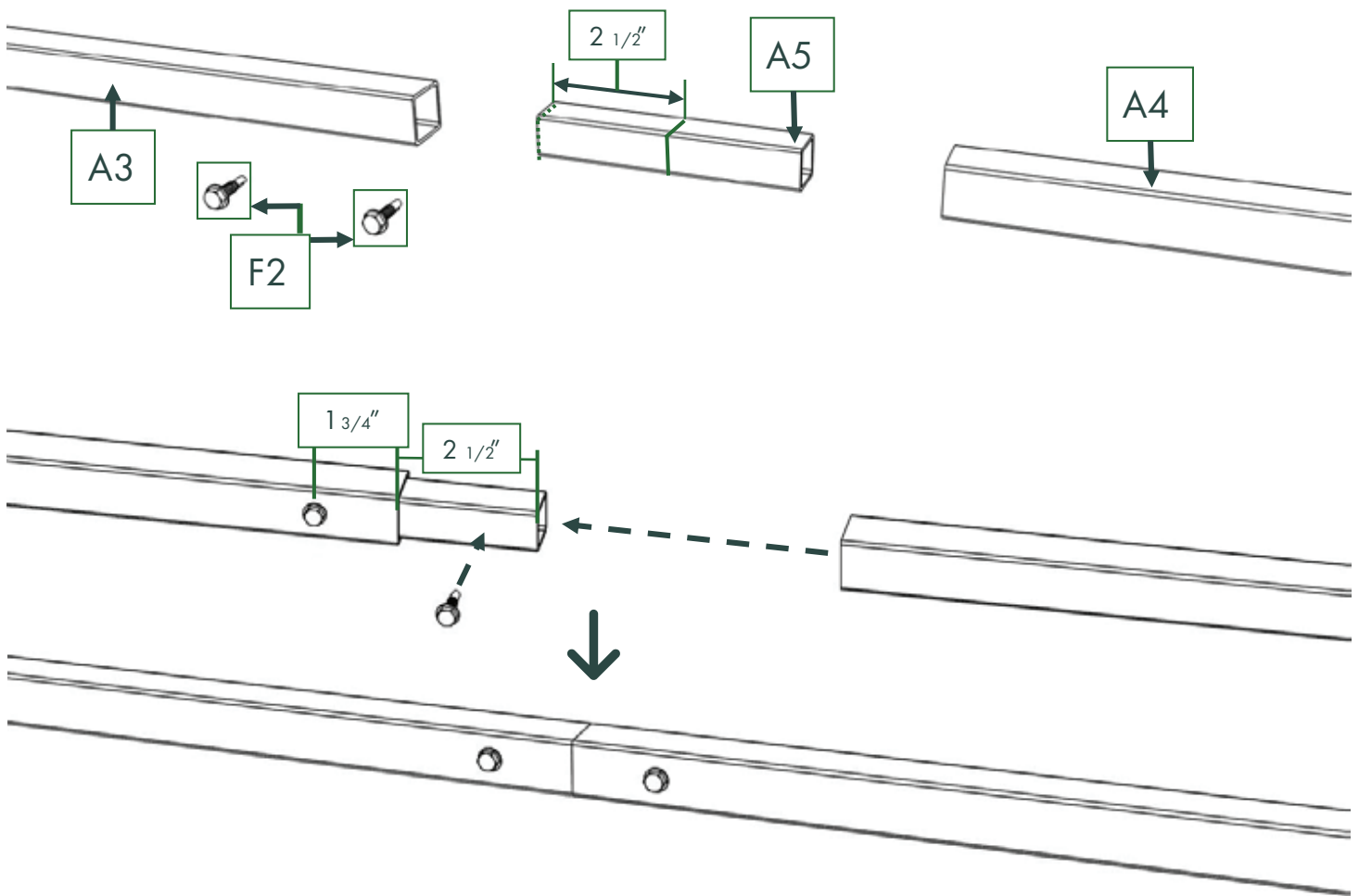
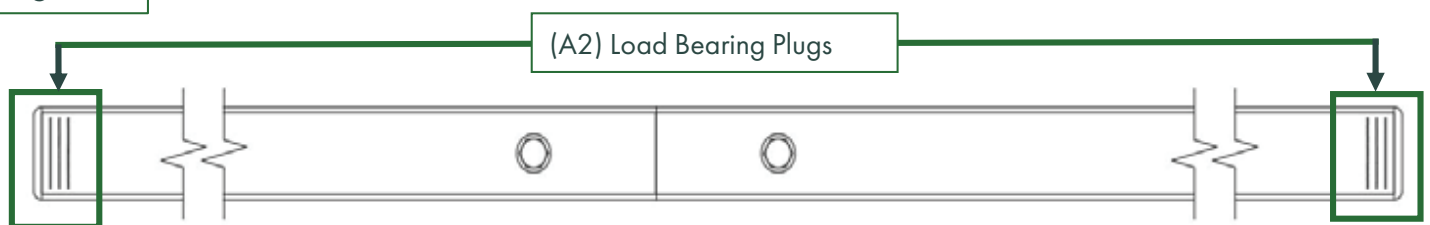


Fig. 2b.





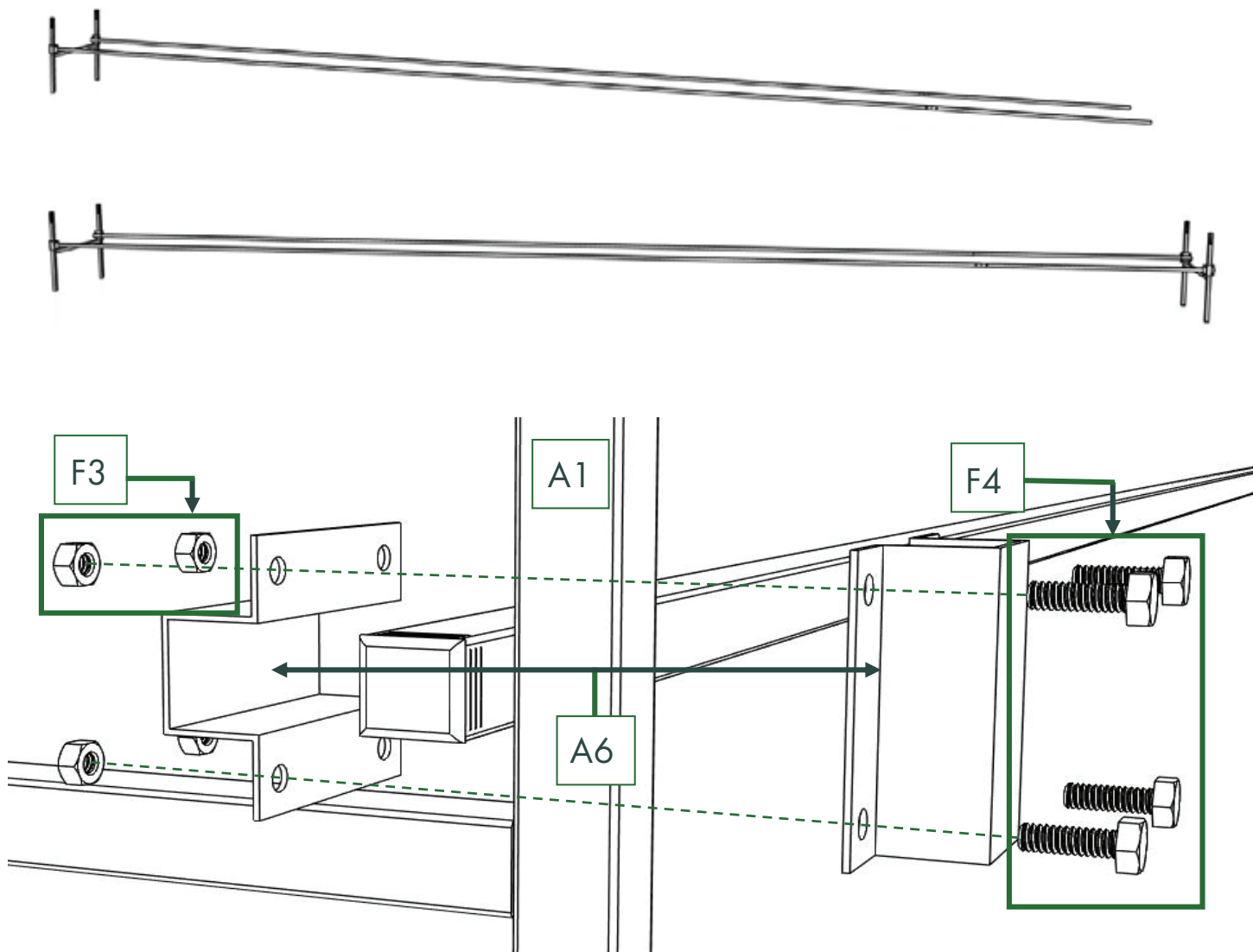
MAX ROLL BENCH ASSEMBLY INSTRUCTIONS

STEP #3

Install Stringers onto Legs

- Stand one end (A1) Leg Unit up (crimped side up) and attach (A3/A4) Stringers with (A6) Square-to-Square Clamp on inside of leg unit upright above cross bar with provided (F3) ¼-20 Hex Nut & (F4) ¼-20x.75" Hex Head Screw. Keep hardware finger tight in case adjustments are needed. (A3/A4) Stringer end should be flush with outside edge of (A6) Square to Square Clamp. Shown Fig 3a.
- Repeat step with (A1) leg unit on opposite end. Stringer pipe will sit flush to outside ends of Squareto-Square Clamp.

Fig. 3a.





MAX ROLL BENCH ASSEMBLY INSTRUCTIONS

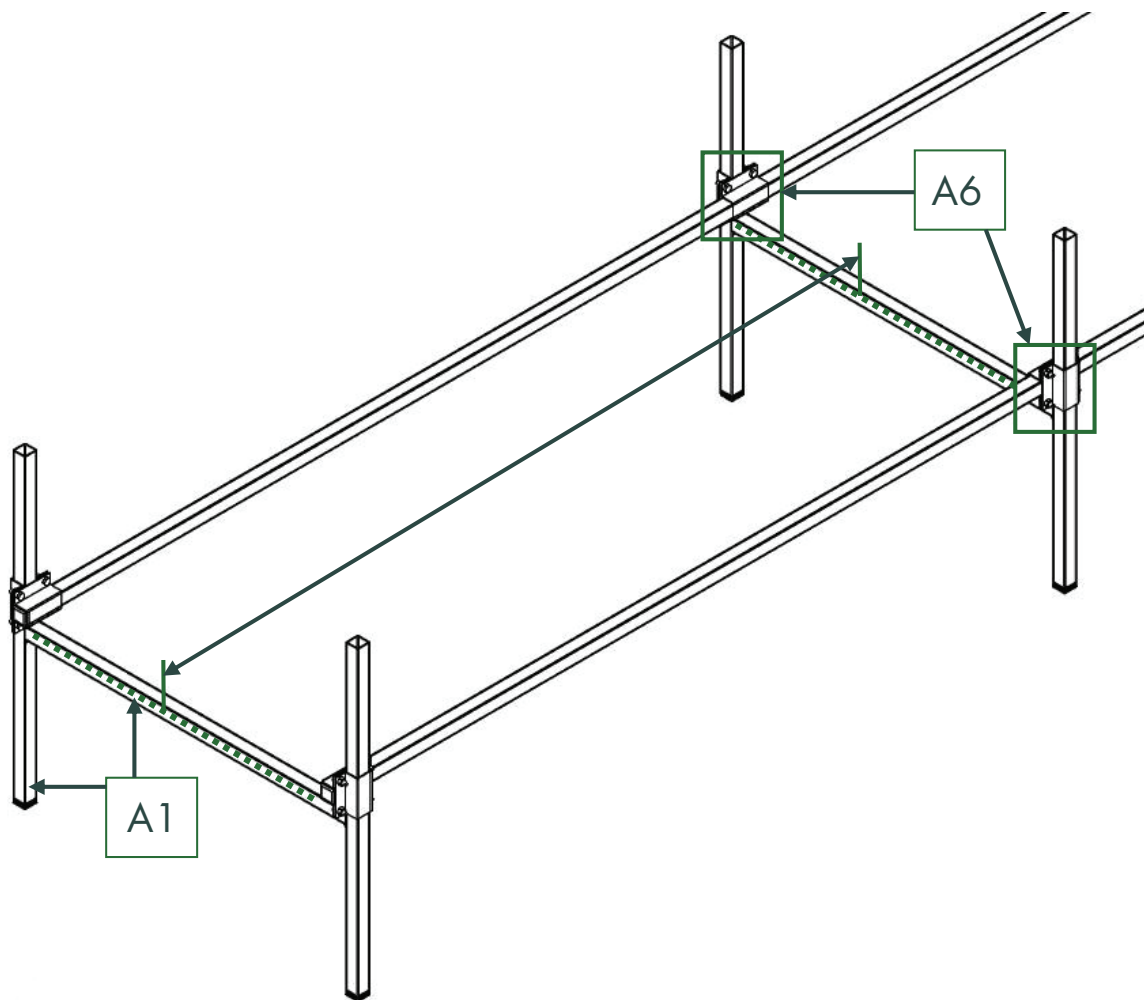
STEP #4

Install Remaining Leg Units

- Refer to your customized Bench Assembly Layout for correct leg counts & spacing. Install all remaining (A1) Leg Units one at a time. Lock them in place with (A6) Square-to-Square clamps in same fashion as Step 3 . Leave hardware hand tight to allow for adjustment.
- Measurements are to be measured from outside edge of first (A1) Leg Units to outside leading edge of following leg. Once second Leg is set at correct distance, measure in same fashion to third. Repeat as needed for all remaining legs. Shown Fig. 4a.
- Once measurements are confirmed, Tighten down all (A6) Square to Square clamps.



Fig. 4a.





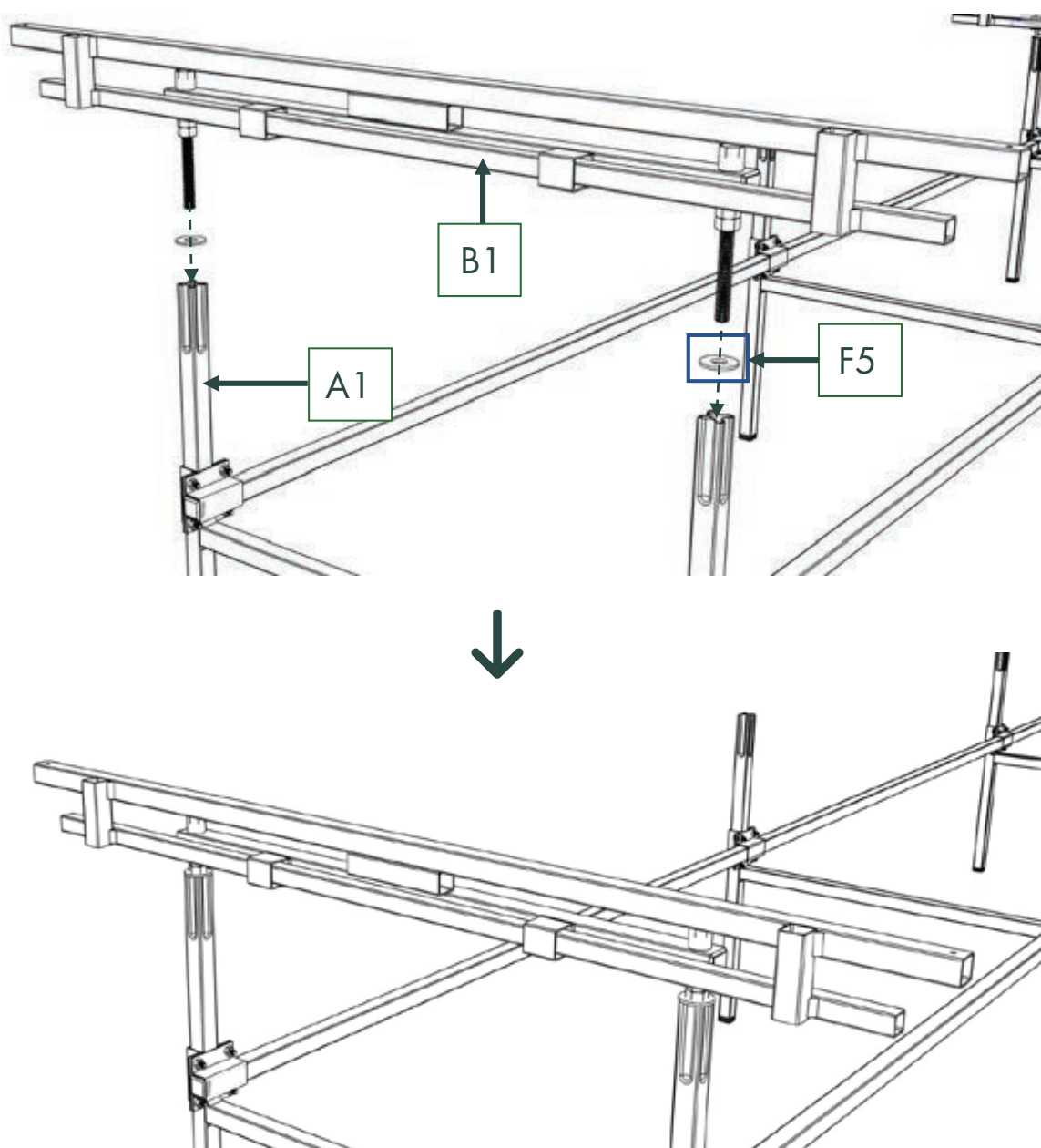
MAX ROLL BENCH ASSEMBLY INSTRUCTIONS

STEP #5

Install Anti-Slip System

- Install (F5) Washer onto threaded adjustment bolt on either side (B1) Anti-Tip system. Install (B1) Anti-Tip System threaded adjustment bolts with washer into crimped end of (A1) Leg Unit. Shown Fig 5a.
- Repeat this step on all (A1) Leg Units specified in your customized Bench Assembly Layout.

Fig. 5a.





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STEP #6

Install Plain Header Units

- Install (F5) Washer onto threaded adjustment bolt on either side. Install (B2) Plain Header Unit threaded adjustment bolts with washer into crimped end of (A1) Leg Unit. Shown Fig 6a.
- Repeat this step on all (A1) Leg Units specified in your customized Bench Assembly Layout.

Fig. 6a.

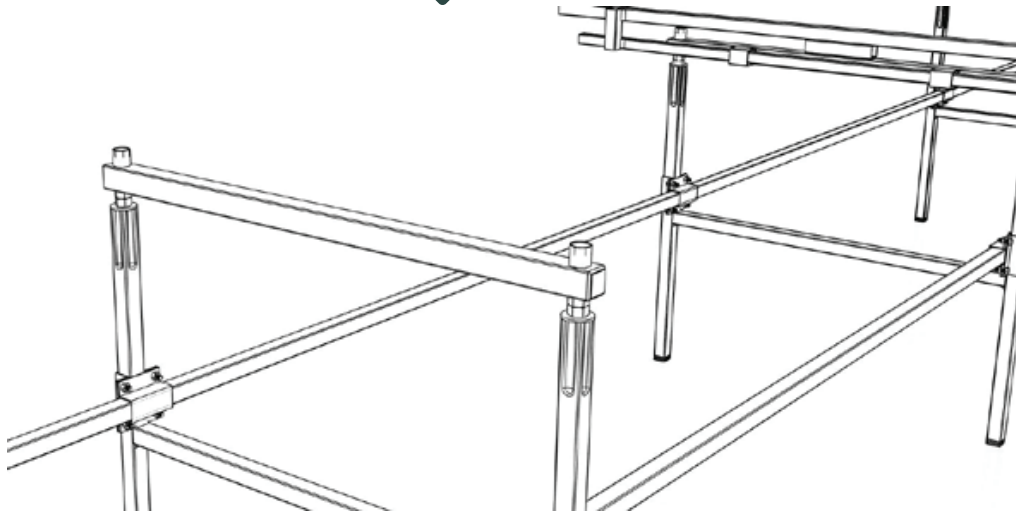
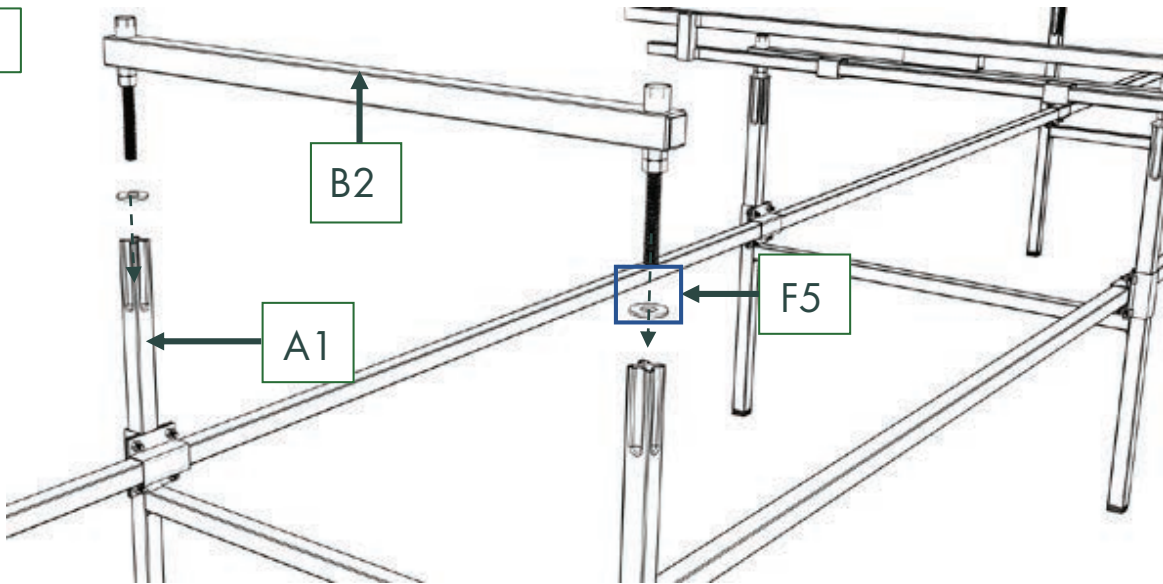
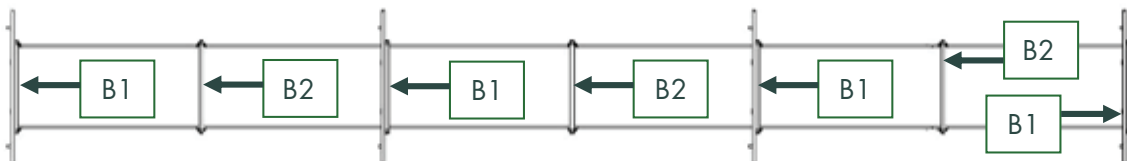


Fig. 6b.





MAX ROLL BENCH ASSEMBLY INSTRUCTIONS

STEP #7

Install Rolling Pipe

- Slide (C1) Rolling Pipe from one end through (B1) Anti-Tip System between upright and center stopper. (C1) Rolling Pipe will measure $11\frac{1}{2}"$ from end of pipe to outside of both end (A1) Leg Units when installed correctly. Shown Fig. 7a.
- Refer to your customized Bench Assembly Layout, if bench requires a multi-piece Rolling Pipe, the longer of the two pieces with Swedged/Crimped end will be C1, shorter piece with plain ends will be C2.
- Insert (C1) Rolling Pipe with Swedged/Crimped end through (B1) Anti-Tip System between upright and center stopper. Shown Fig. 7a. (C1) Rolling Pipe will measure $11\frac{1}{2}"$ from end of pipe to outside of first (A1) leg when installed correctly. Shown Fig. 7a. Insert (C2) Rolling Pipe with plain ends through the opposite end of (B1) Anti-Tip System. Slide the end of (C2) over the top of Swedged/Crimped end of (C1) and fasten with (F2) Self Tapping screw $1\frac{1}{2}"$ from joint seam. Shown Fig. 7b.

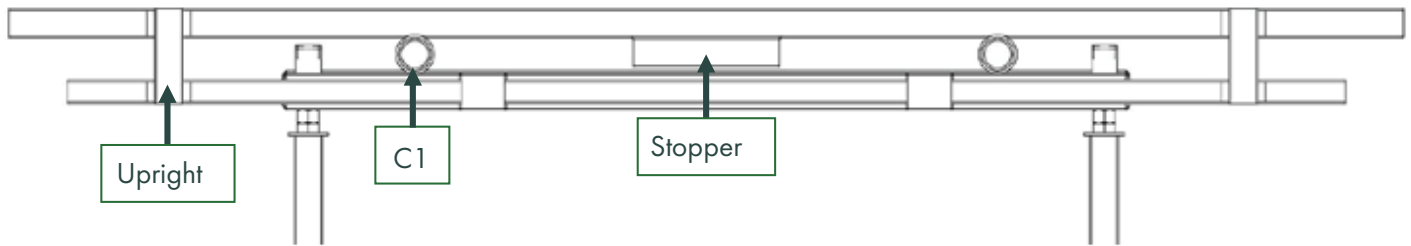
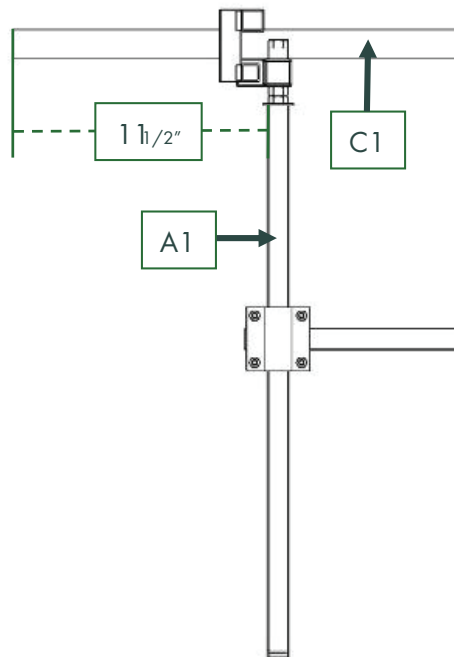


Fig. 7a.

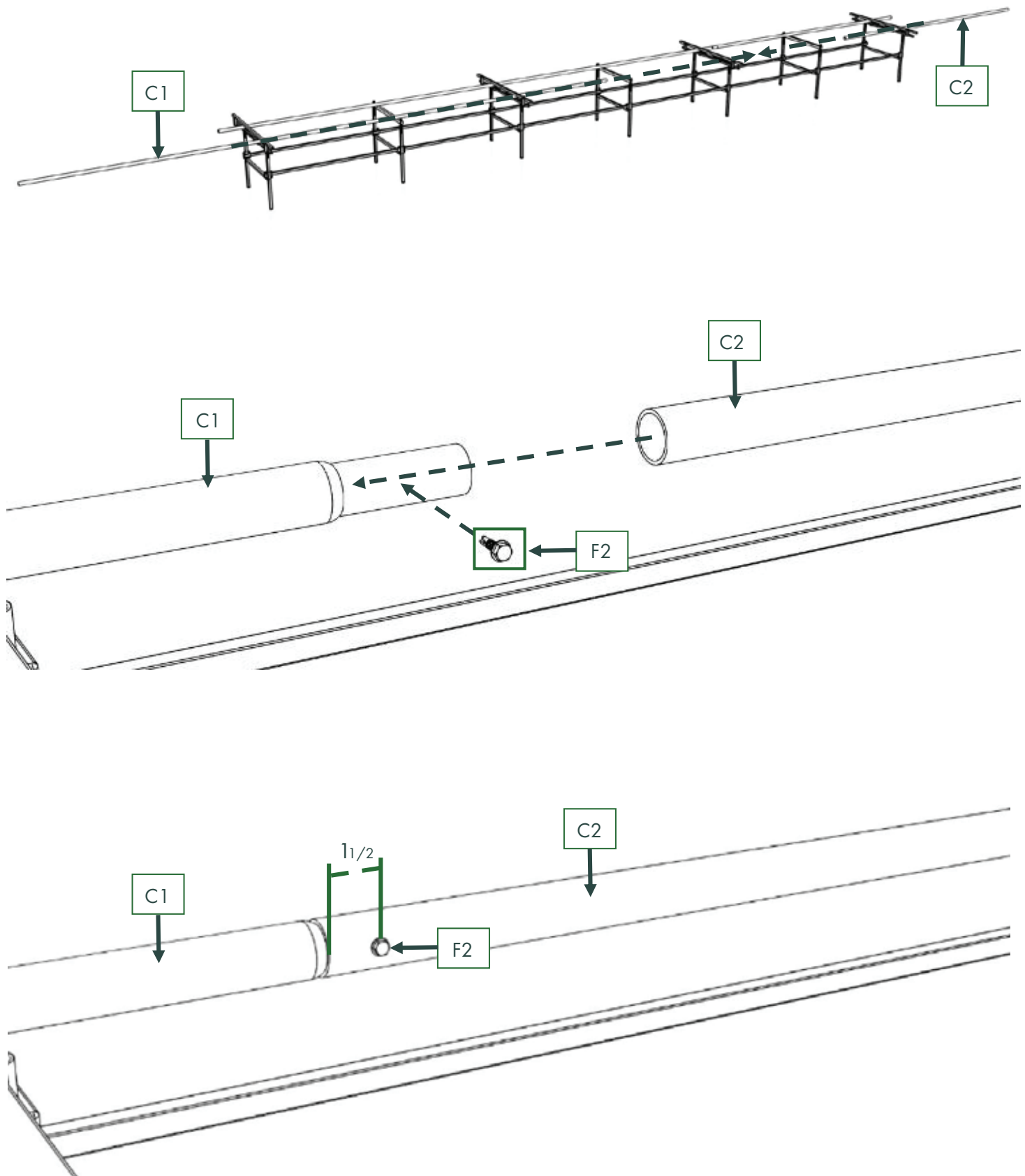


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MAX ROLL BENCH ASSEMBLY INSTRUCTIONS

Fig. 7b.



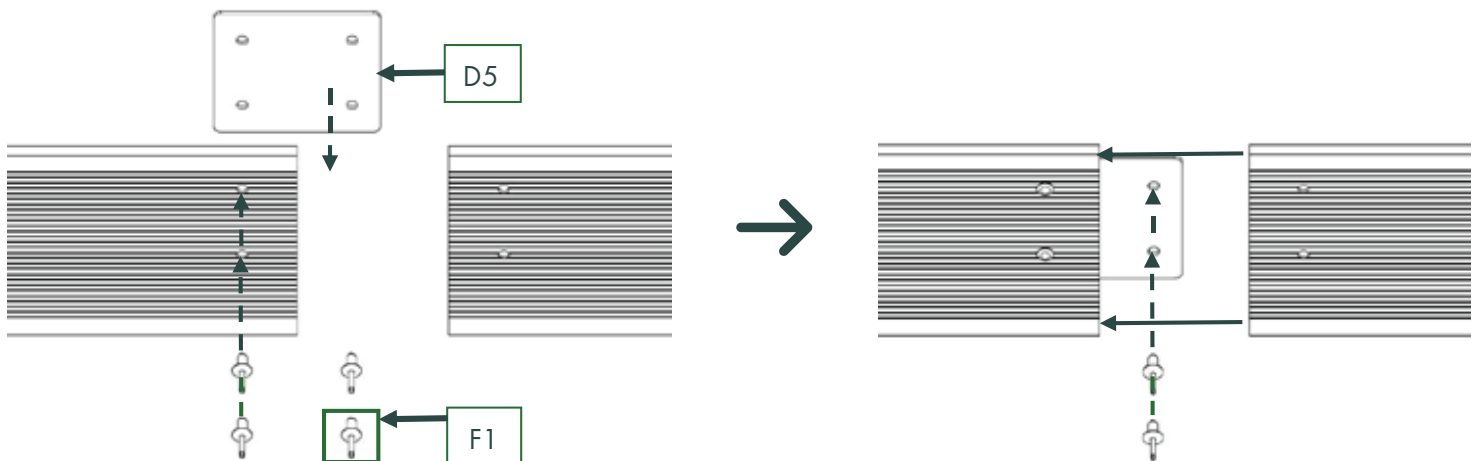
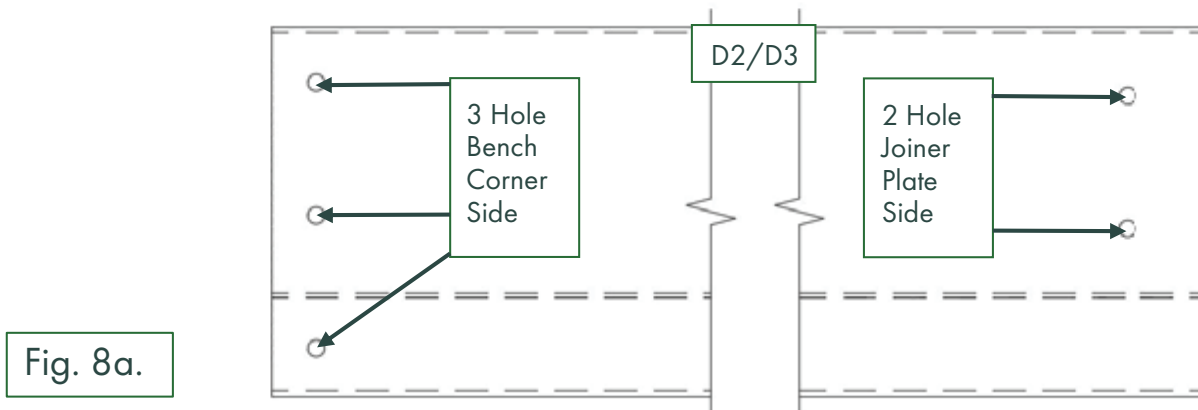


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STEP #8

Install Side Rail

- Refer to your customized Bench Assembly Layout for side rail layout and dimensions. (D2/D3) Side Rails will be labeled side A and side B as well as component locations.
- *If Applicable. Join (D2) Side Rail to (D3) Additional Side Rail together with (D5) Joiner Plate and (F1) Pop Rivets. Join Side A and Side B at the same time. Side B will be installed at a later point. Shown Fig. 8a.
Note: Joiner Plate always gets installed at end of first Side Rail and start of following Side Rail. There will be a set of 2 pre-drilled holes in a vertical pattern. If Side Rail has a pattern of 3 prepunched holes that align with a set of 2 pre-punched holes the side rails are not in correct order, Refer to your customized Bench Assembly Layout for correct layout.
- Install (D2/D3) Side Rail – Side A onto ends of (B1) Anti-Tip System. Align first Anti-Tip marked hole in channel of (D2/D3) Side Rail with pre-punched hole on First (B1) Anti-Tip System. Lock together with (F1) Pop-Rivet. Continue down (D2/D3) Side Rail installing a (F1) Pop-Rivet at each Anti-Tip System labeled pre-punched hole location. Shown Fig. 8b.

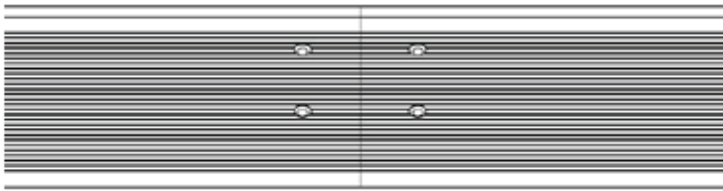


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MAX ROLL BENCH ASSEMBLY INSTRUCTIONS

Front Side



Back Side

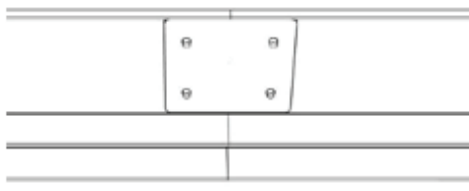
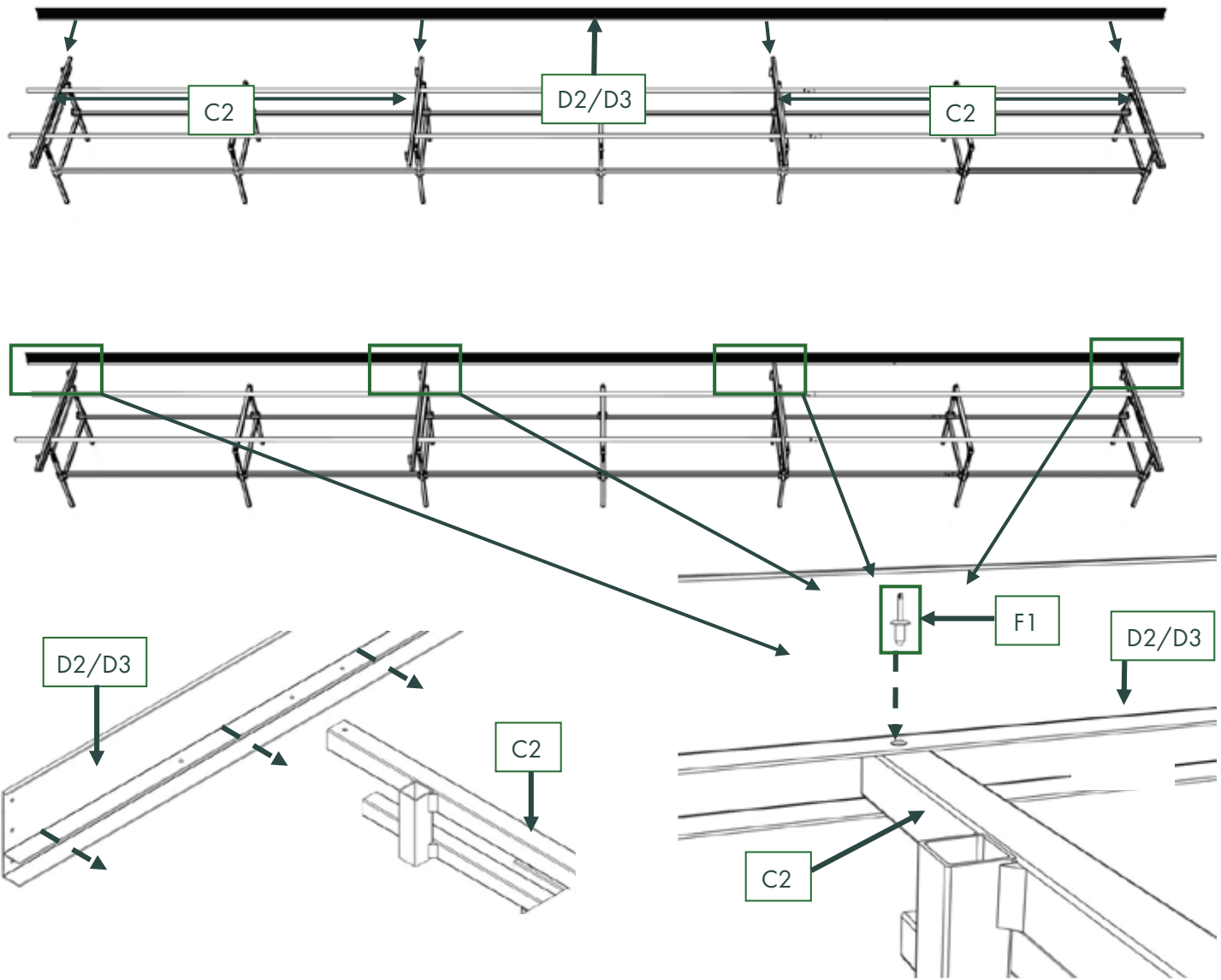


Fig. 8b.





MAX ROLL BENCH ASSEMBLY INSTRUCTIONS

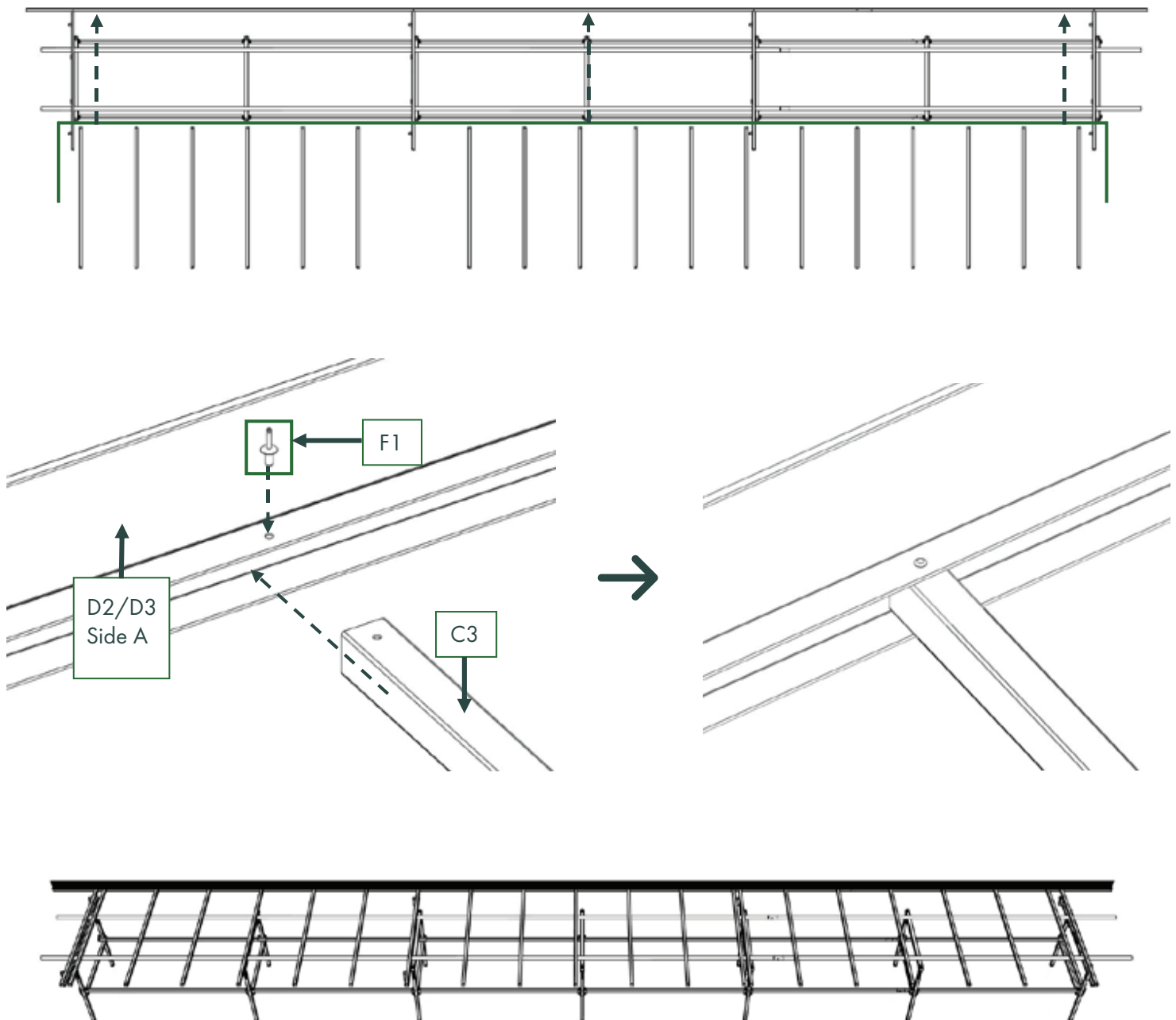
STEP #9

Install Bench Cross Bars

- Install (C3) Bench Cross Bars to channel of (D2/D3) Side Rail-side A in same fashion as (C2) Anti-Tip System in Step 8b. (D2/D3) Side Rails will be labeled with Cross Bar locations. Side Rails will sit 90° across the top of (C1/C2) Rolling Pipe. Lock (C3) Bench Cross Bars into place with provided (F1) PopRivets Shown Fig. 9a.

Note: When installing Bench Cross Bars make sure the pre-punched holes on ends up tubes are facing up.

Fig. 9a.





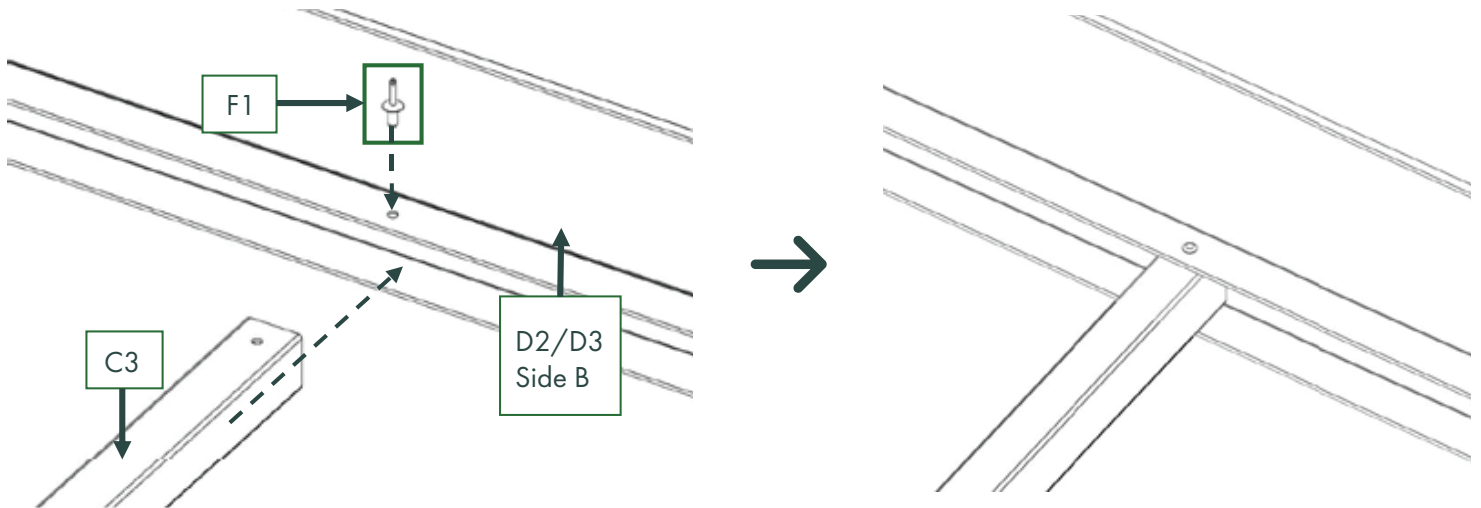
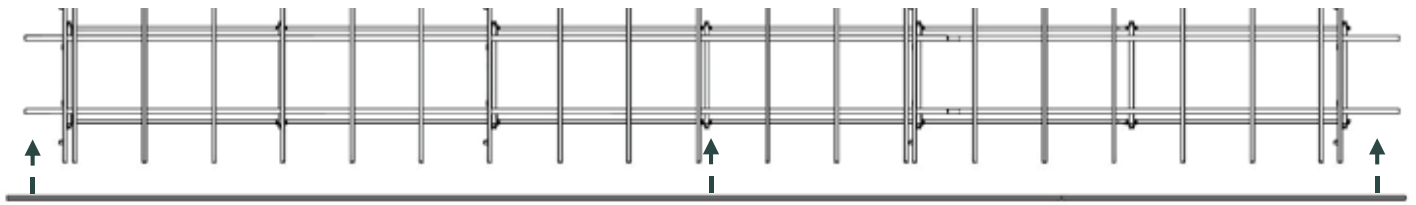
MAX ROLL BENCH ASSEMBLY INSTRUCTIONS

STEP #10

Remaining Side Rail & End Rails

- Install (D2/D3) Side Rail-side B by sliding channel over previously installed bench top components, Side Rail will be labeled with (C2) Anti-Tip System, (C3) Bench Cross Bar locations. Lock (D2/D3) Side Rail in place with (F1) Pop-Rivets through labeled pre-punched hole locations. Shown Fig. 10a.

Fig. 10a.





MAX ROLL BENCH ASSEMBLY INSTRUCTIONS

STEP #11

Install End Rail

- *If Applicable, If bench is 5 foot or wider in width, install (D6) Bench End Frame by sliding component into end of bench in extruded channels of (D2/D3) Side Rail and locking into place with (F1) Pop-Rivet at labeled pre-punched hole location.
Note: Orientation of (D6) End Frame Shown Fig. 11a.
- Install (D1) Bench Corner onto both ends of (D4) Bench End Rail with provided (F1) Pop-Rivets.
Note: End Rails will have two sets of 3 pre-punched holes on either ends. Shown Fig. 11b.
- Install (D4) Bench End Rail w/ (D1) Bench Corners onto end of (D2/D3) Side Rail-side A&B with provided (F1) Pop-Rivets. Repeat for opposite end. Shown Fig. 11c.

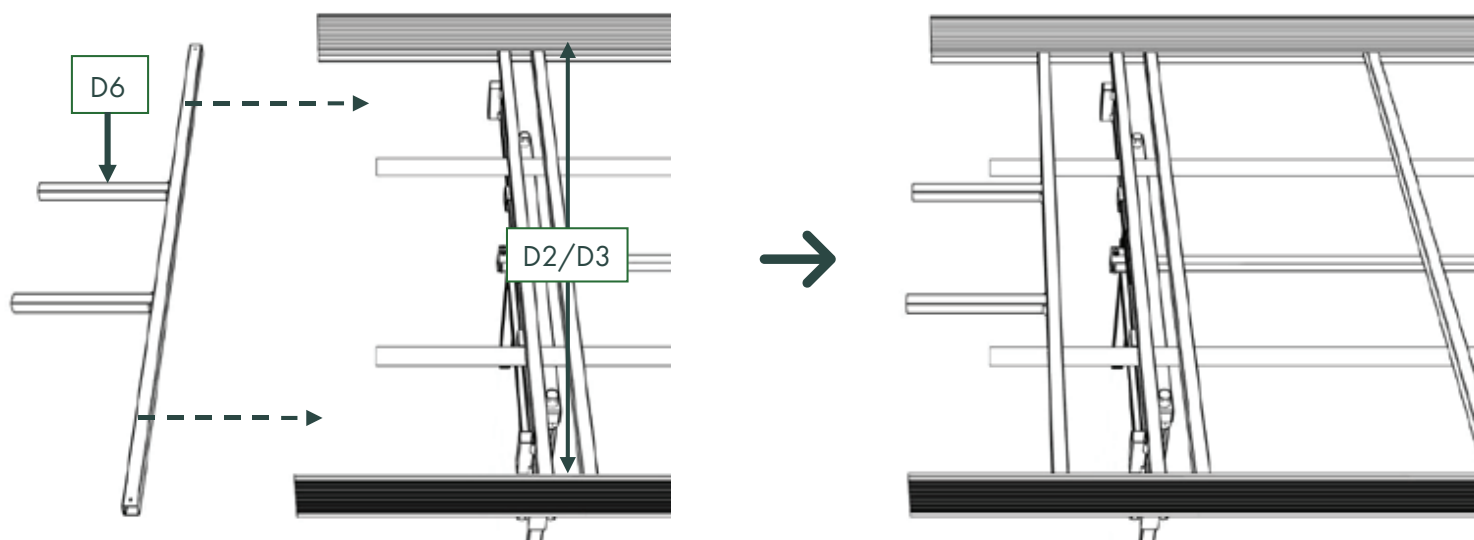
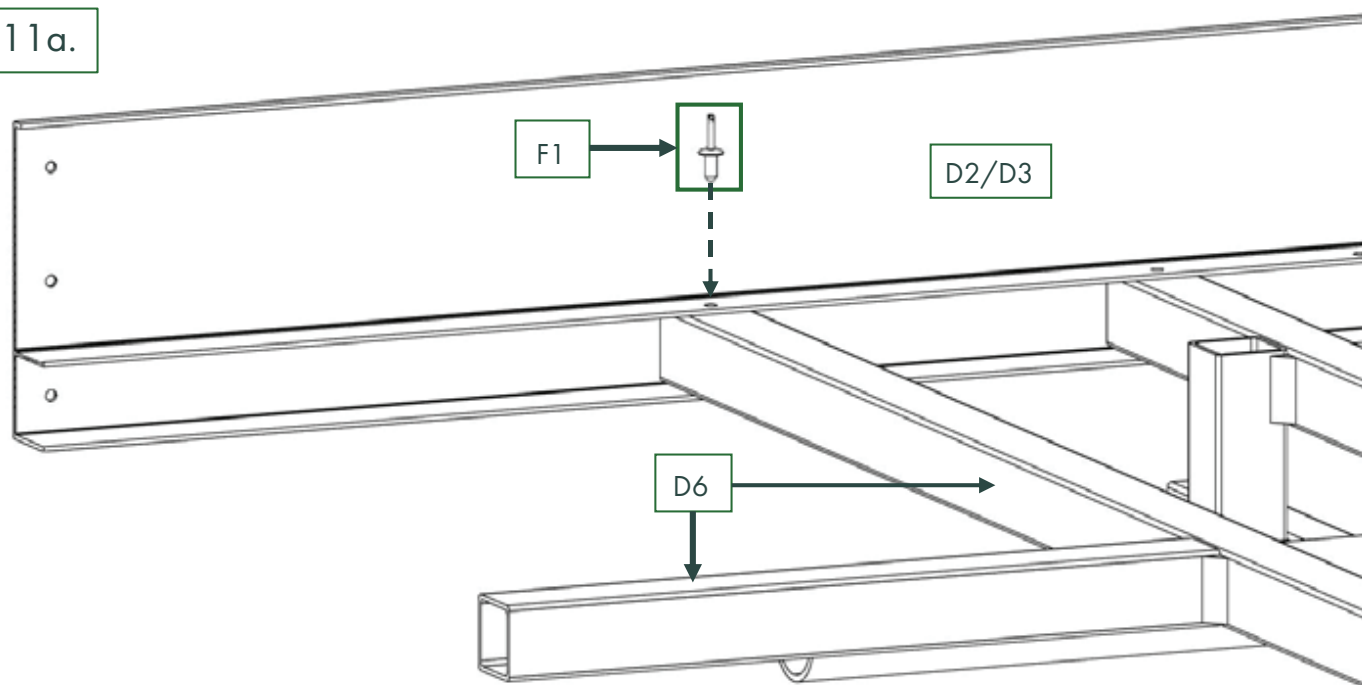


Fig. 11a.

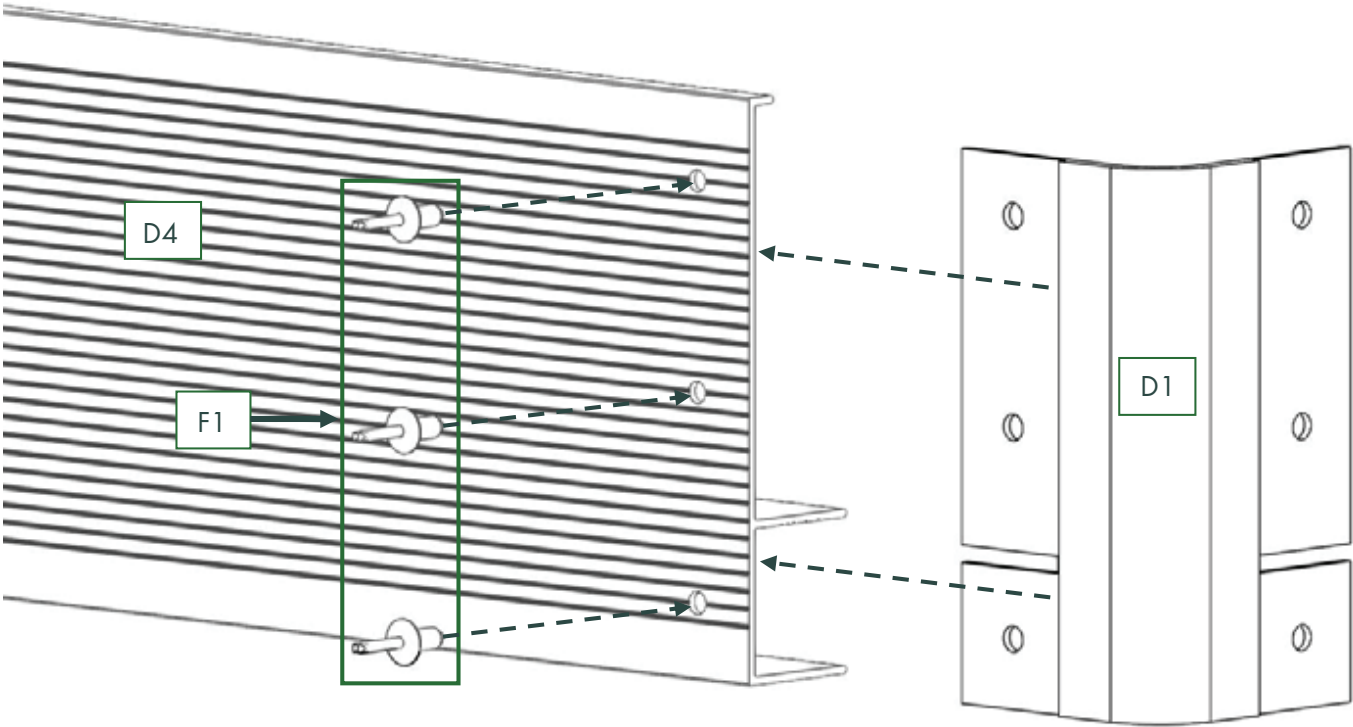
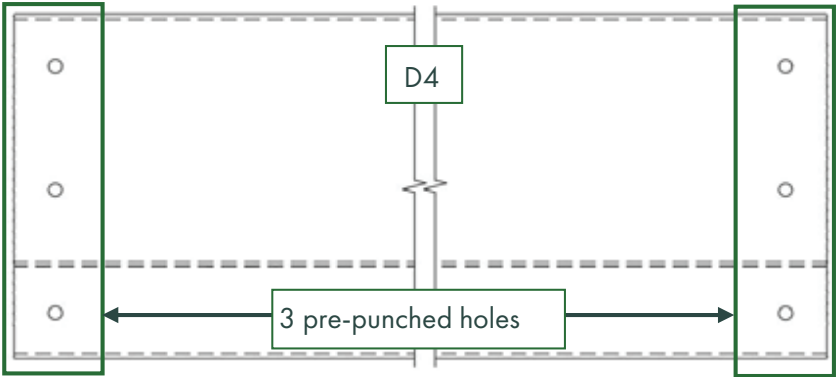


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MAX ROLL BENCH ASSEMBLY INSTRUCTIONS

Fig. 11b.



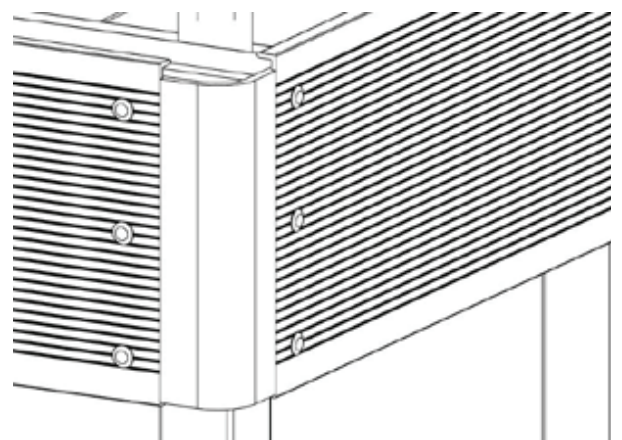
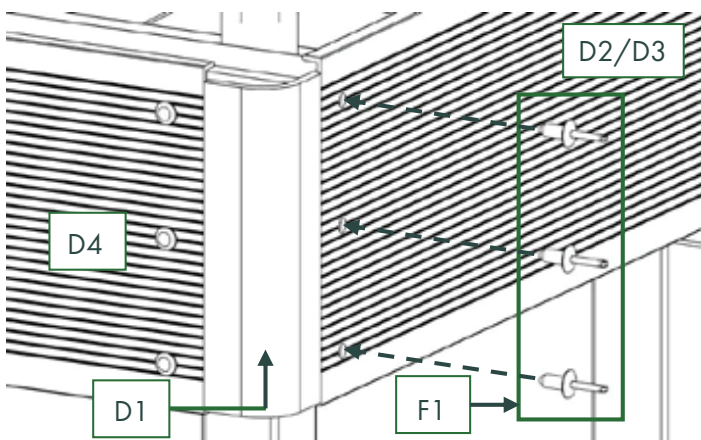
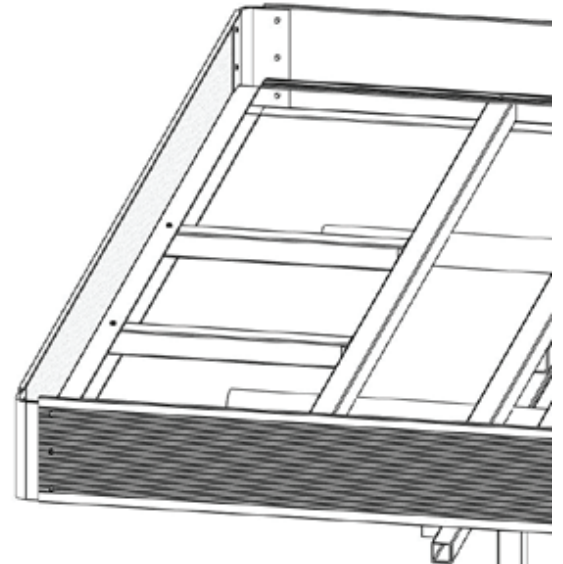
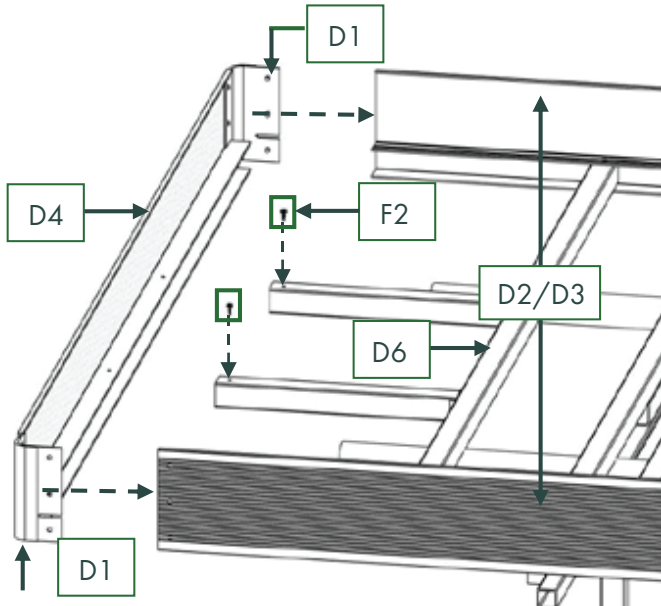
More Diagrams On Next Page...



MAX ROLL BENCH ASSEMBLY INSTRUCTIONS

- If your bench is 5' or wider, install (D4) Bench End Rail w/ (D1) Bench Corners onto end of (D2/D3) Side Rail-side A&B with provided (F1) Pop-Rivets. End Frame will slide into extruded channel of (D4) End Rail, install (F2) Self-tapping screws through top extruded lip into 1" x 1" tubing. Repeat for opposite end. Shown Fig. 11c.

Fig. 11c.





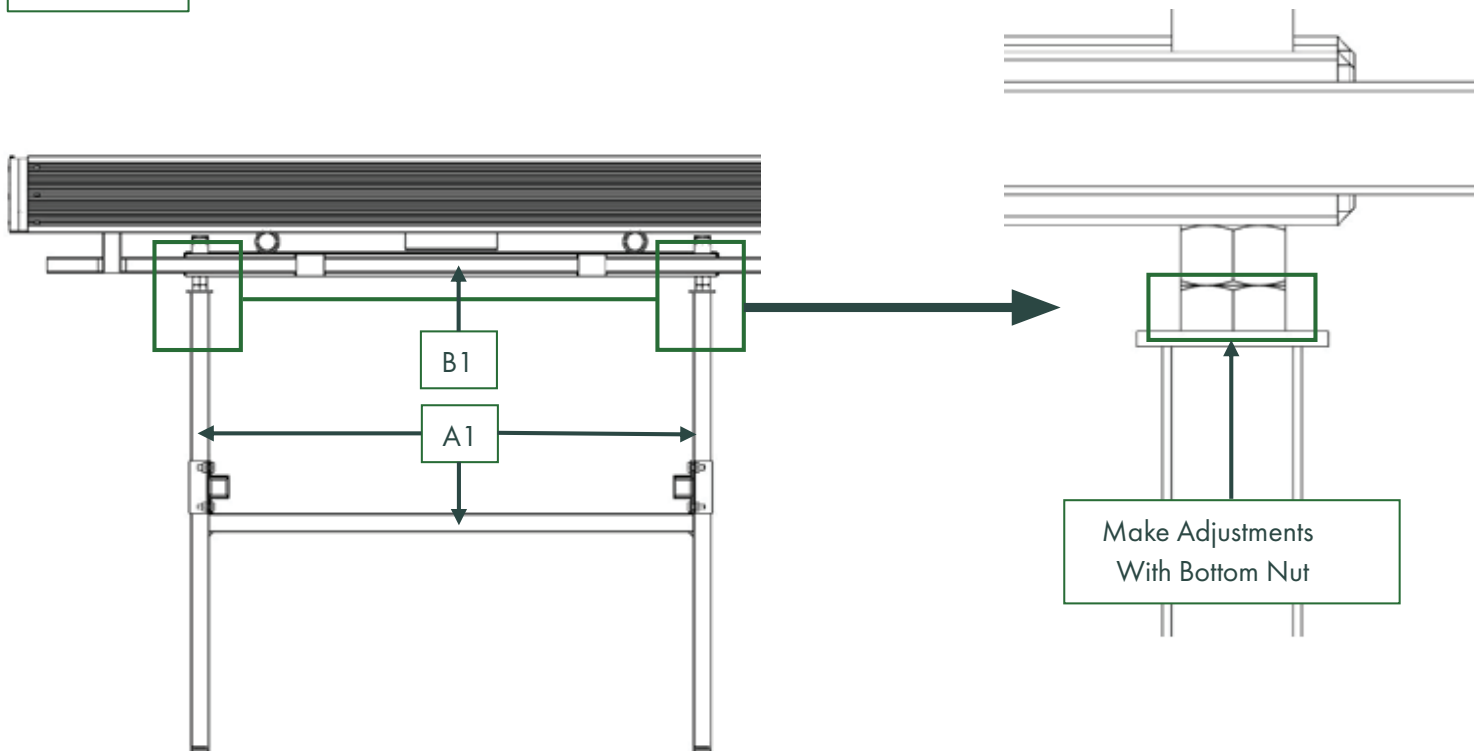
MAX ROLL BENCH ASSEMBLY INSTRUCTIONS

STEP #12

Level Bench Top

- Level bench top by adjusting the bottom hex head leveling nuts located on bottom of (B1) Anti-Tip System. Shown Fig. 12a .
- Start at lowest point (A) of bench and adjust leveling nut until level with highest point (B). Place wrench on top nut to hold in place, use an additional wrench to rotate bottom nut clockwise. In addition check for level from side to side, using same method. Shown Fig. 12b .
- All leveling nuts between point A and point B should be turned clockwise until nut touches the washer on (A1) Leg Shown Fig. 12c.

Fig. 12a.



More Diagrams On Next Page...



MAX ROLL BENCH ASSEMBLY INSTRUCTIONS

Fig. 12b.

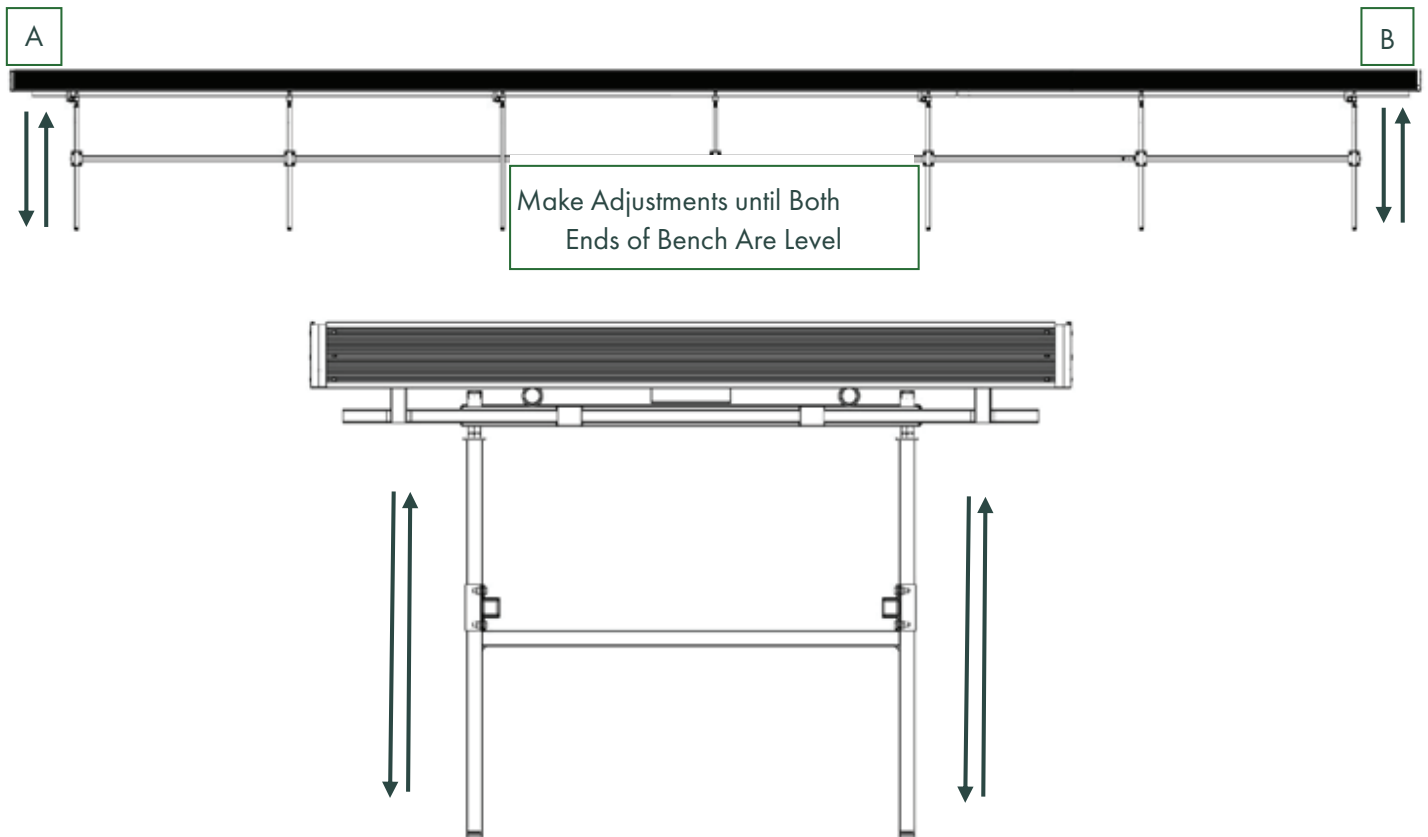
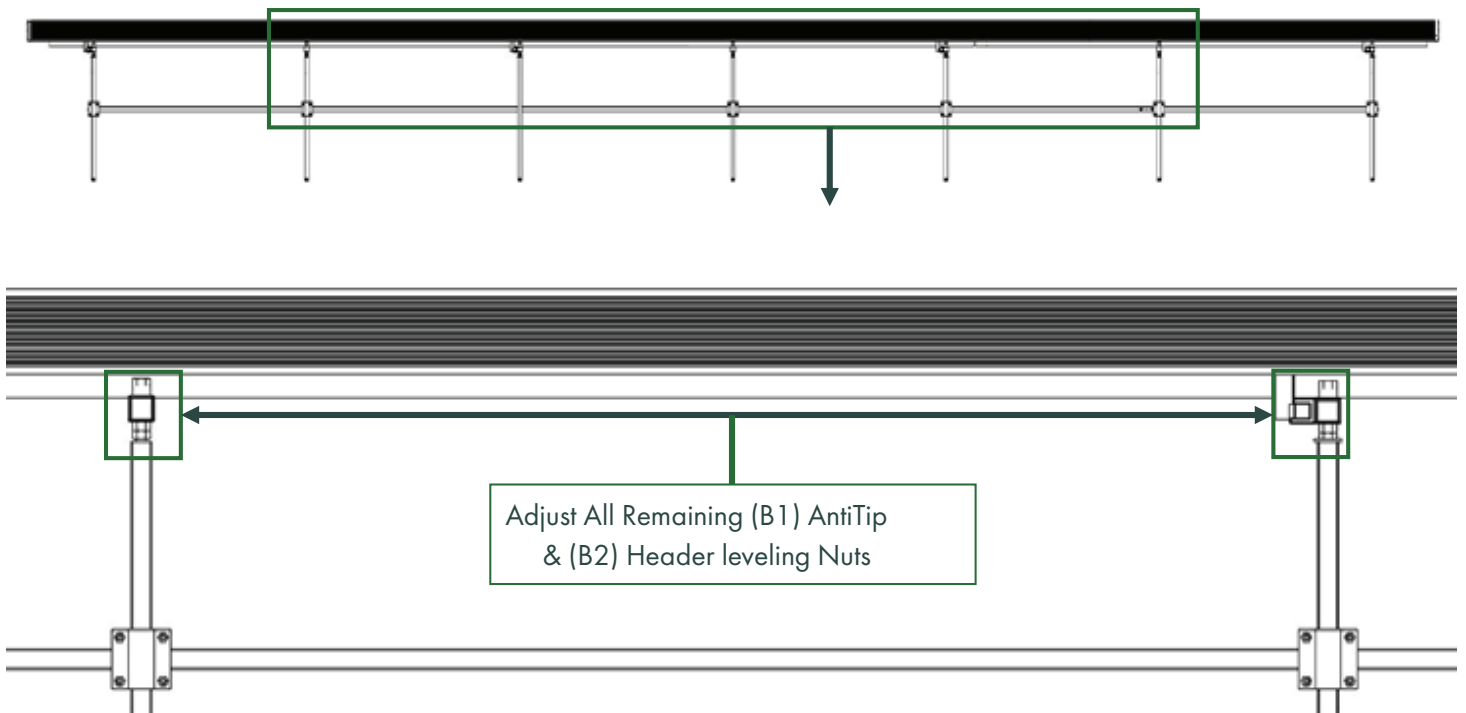


Fig. 12c.





MAX ROLL BENCH ASSEMBLY INSTRUCTIONS

STEP #13

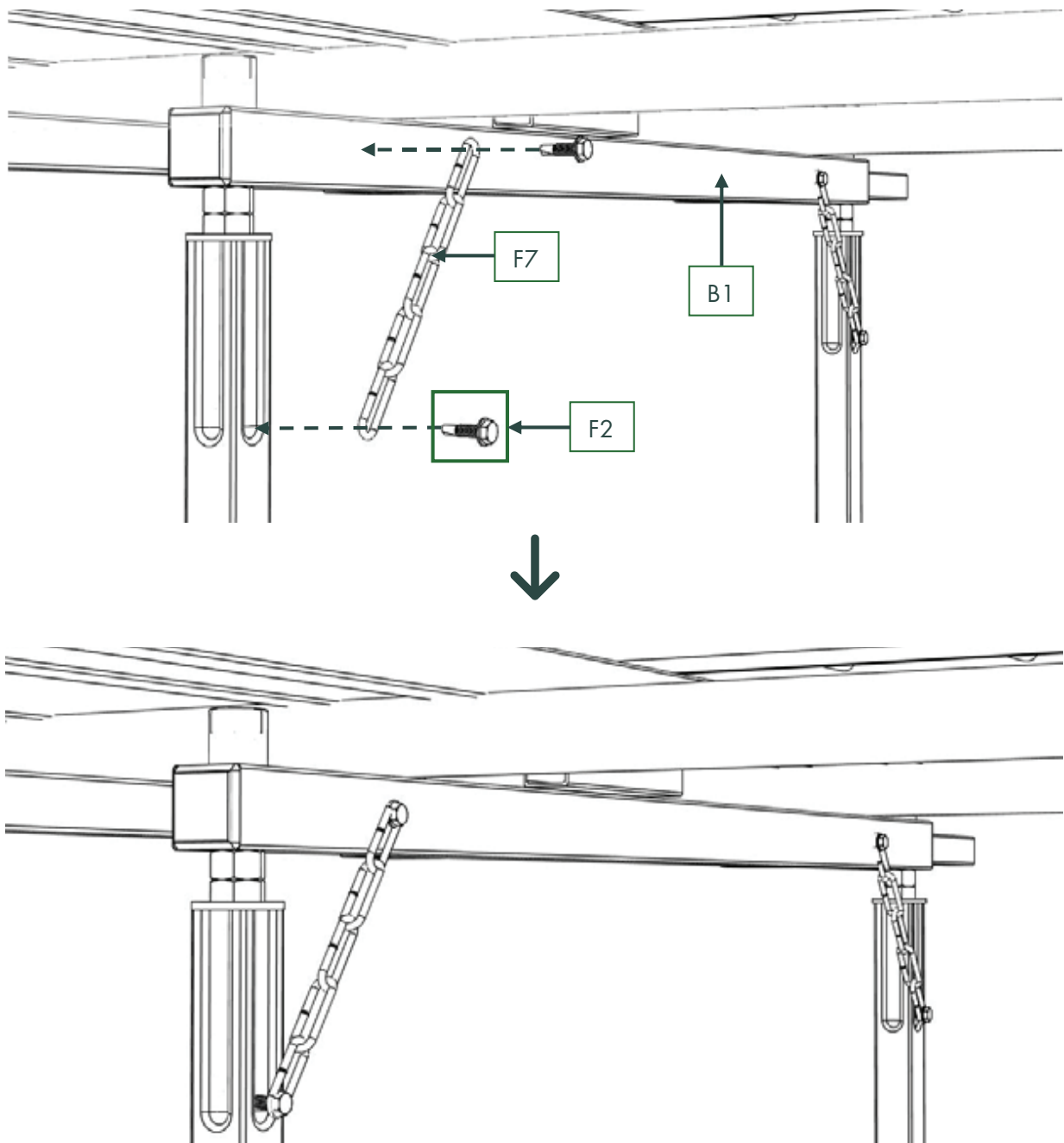
Install Safety Chain

- (F7) Safety Chains need to be installed on either side of each (B1) Anti-Tip System with (F2) Self-Tapping Screws after bench has been leveled.

Note: Chains to be installed on fixed Header portion of (B1) Anti-Tip System, locations may be varied based on leveling height of (B1) Anti-Tip System, Chains do not need to be tight, but extended as much as reasonably possible with minimal slack. Shown Fig. 13a.

- Repeat for all (B1) Anti-Tip Systems installed on bench.

Fig. 13a.





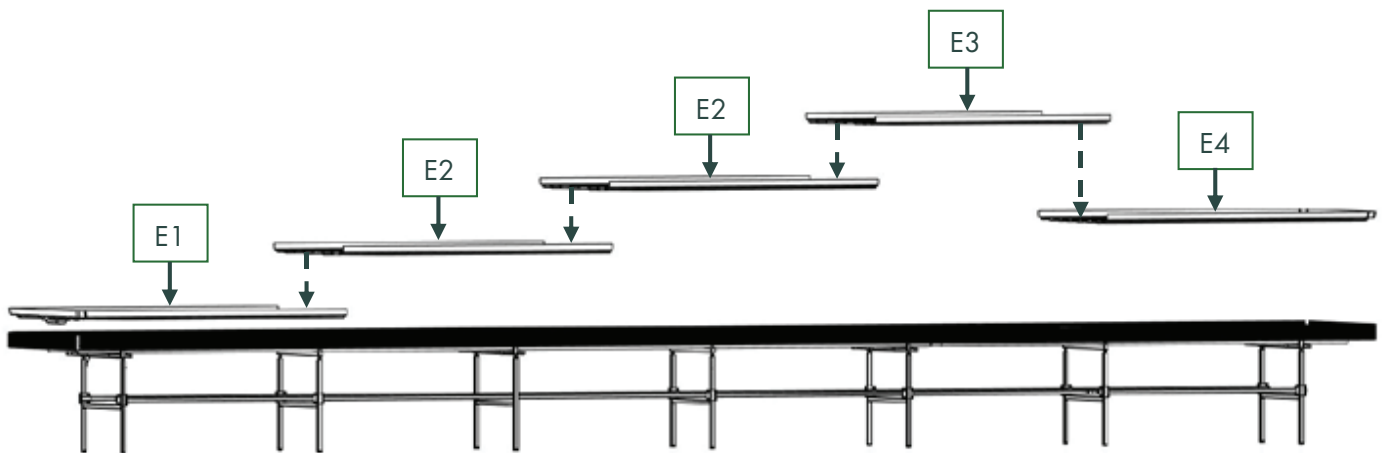
MAX ROLL BENCH ASSEMBLY INSTRUCTIONS

STEP #14

Install Trays

- Refer to your customized Bench Assembly Layout for tray locations. Start with setting both (E1) End Tray w/ Well & (E4) End Tray no Well on either end of bench. (E1) End Tray w/ will need to be set on end where drainage will run too. Overlap first (E2) Middle Tray off the recessed lip on (E1) End Tray w/ Well. Continue this overlap for remaining (E2) Middle Tray(s) & (E3) Filler Tray. (E3) Filler Tray will overlap on both sides on top of (E2) & (E4). Shown Fig. 14a.
- (E3) Filler Tray lengths will be shown on your customized Bench Assembly Layout.
- **Refer to provided Staal & Plast Expandable Trays Instruction packet for proper overlap distances & gluing.

Fig. 14a.





MAX ROLL BENCH ASSEMBLY INSTRUCTIONS

STEP #15

Anchor Legs to Floor

- Confirm bench is in correct location before performing this step!
- Locate (F8) Angle Bracket onto the inside of (A1) Leg. Use supplied (F2) Self-Tapping Screws in top two holes on (F8) Angle Bracket. Make sure bracket is flush with bottom of leg and sitting flat on the ground. Shown Fig. 15a.
- Install (F6) Tap-cons in bottom two holes of bracket. Pre-drill a 2" deep hole with 5/32 concrete bit floor through bottom two holes on bracket. Clean out holes with Vacuum or Blowout Bulb to ensure (F6) Tap-Cons will be fully seated. Shown Fig. 15b .
- Repeat this step on Legs with (B1) Anti-Tip System installed.

Fig. 15a.

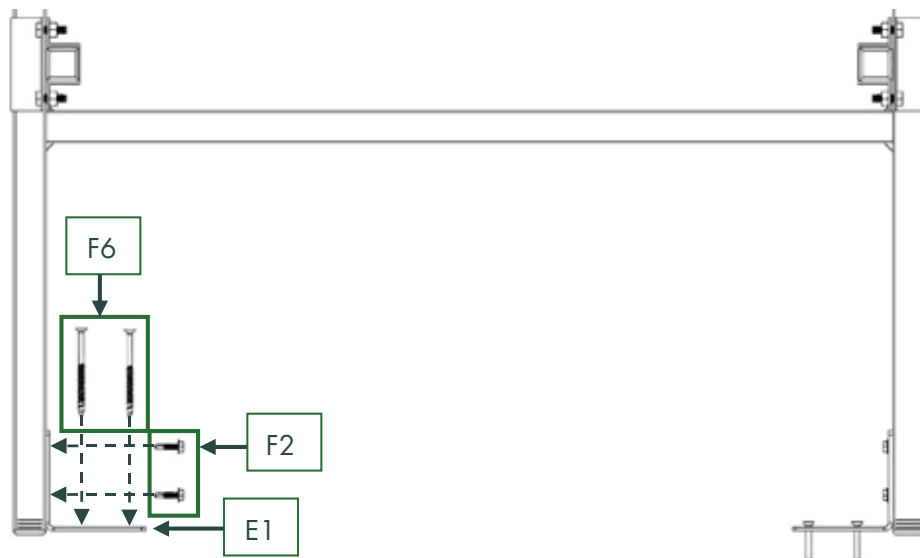
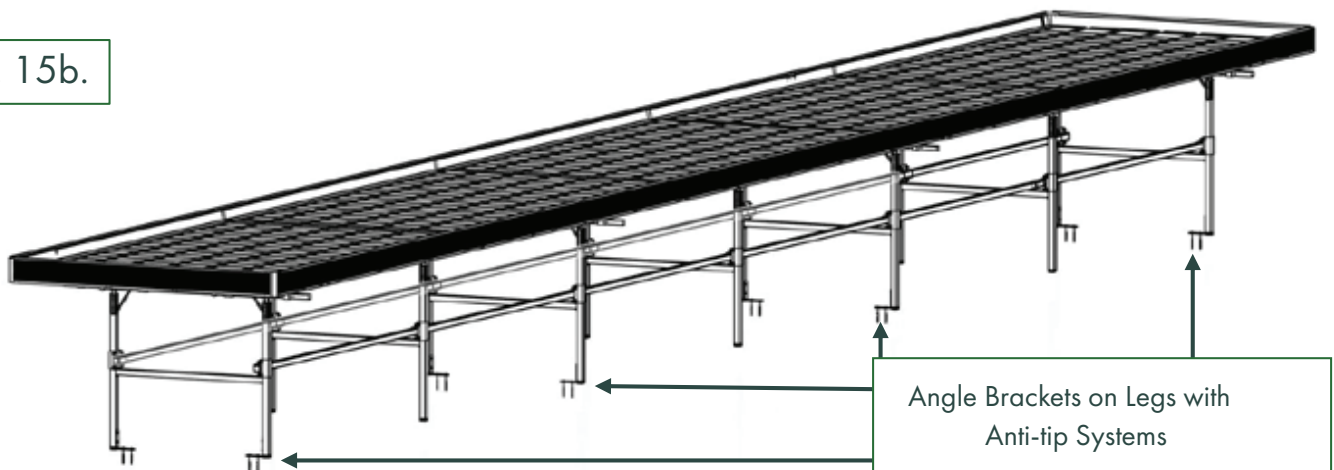


Fig. 15b.





MAX ROLL BENCH ASSEMBLY INSTRUCTIONS

STEP #16

Install Filter & Fittings

- For this step, please refer to provided Filter & Fittings Instruction Guide.

