

Manufactured by: **Backyard Discovery** 3305 Airport Drive, Pittsburg, KS 66762 800-856-4445

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12x10 EVANSTON STEEL WALL-**MOUNTED LOUVERED PERGOLA**

MODEL #: 2407121



Please visit www.backyarddiscovery.com For the most up to date assembly manual, to register your product, or to order replacement parts Para obtener instrucciones en español, visite www.backyarddiscovery.com



EASY STEP-BY-STEP

3D INTERACTIVE INSTRUCTIONS DOWNLOAD THE FREE APP





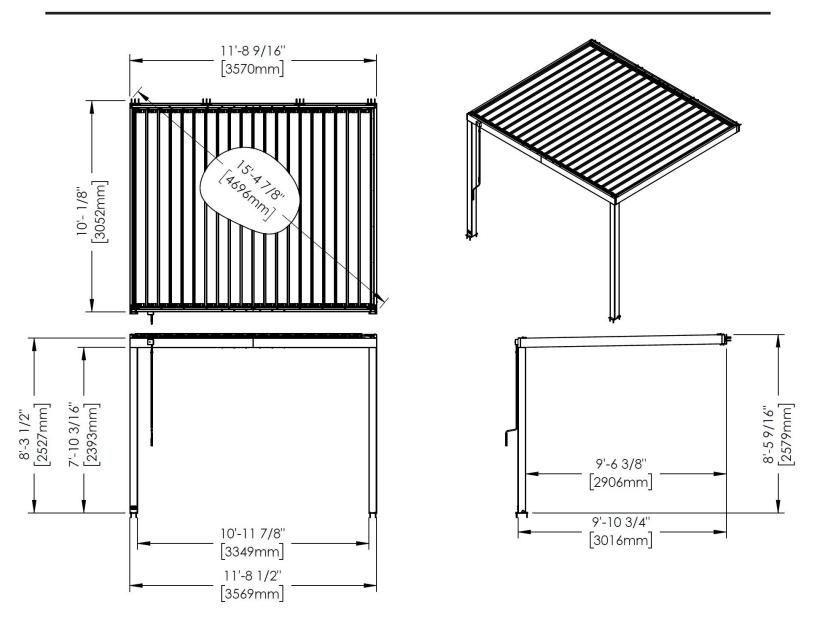
OWNER'S MANUAL - BASIC SETUP DIMENSIONS & ASSEMBLY NOTES

It is critically important that you start with square and level footings, concrete pad or deck to attach your structure.

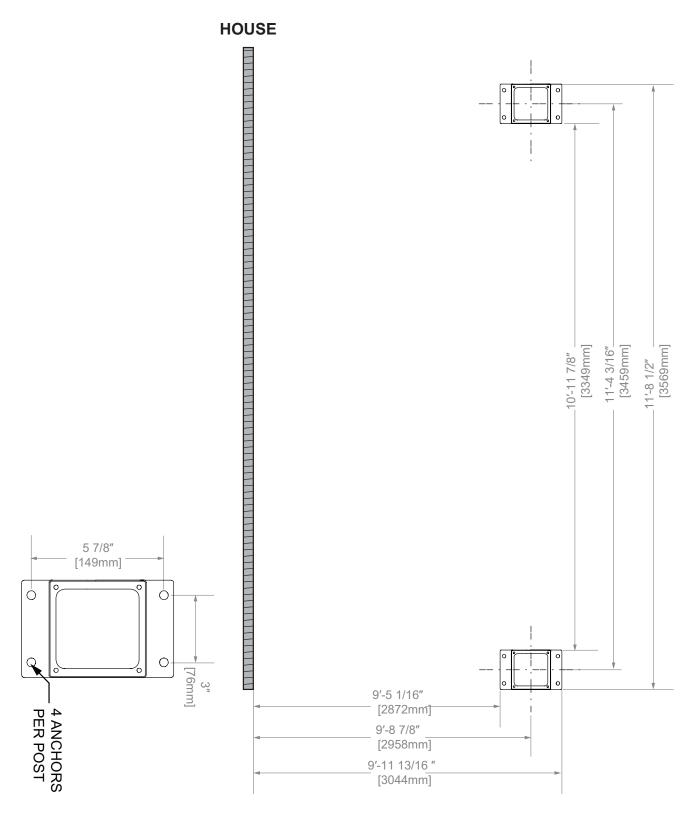
- Pay close attention to the items needed for each step. Make sure you are using the correct hardware for each step. Using incorrect hardware may result in improper assembly
- · Remember to double check for underground utilities and overhead electrical lines

Post mounts are provided with your structure which allows you to permanently install your structure to a pre-existing or new wood or concrete surface. See Anchor Instructions for further details and recommendations.

- The hardware to attach the post mounts to the structure is included.
- The hardware to mount the structure permanently to a concrete surface is included.
- The hardware to attach the structure permanently to a house is included.
- The hardware to mount the structure permanently to a wood deck is NOT included and will need to be purchased separately. You must ensure there is ample structural support under the deck before permanently attaching.

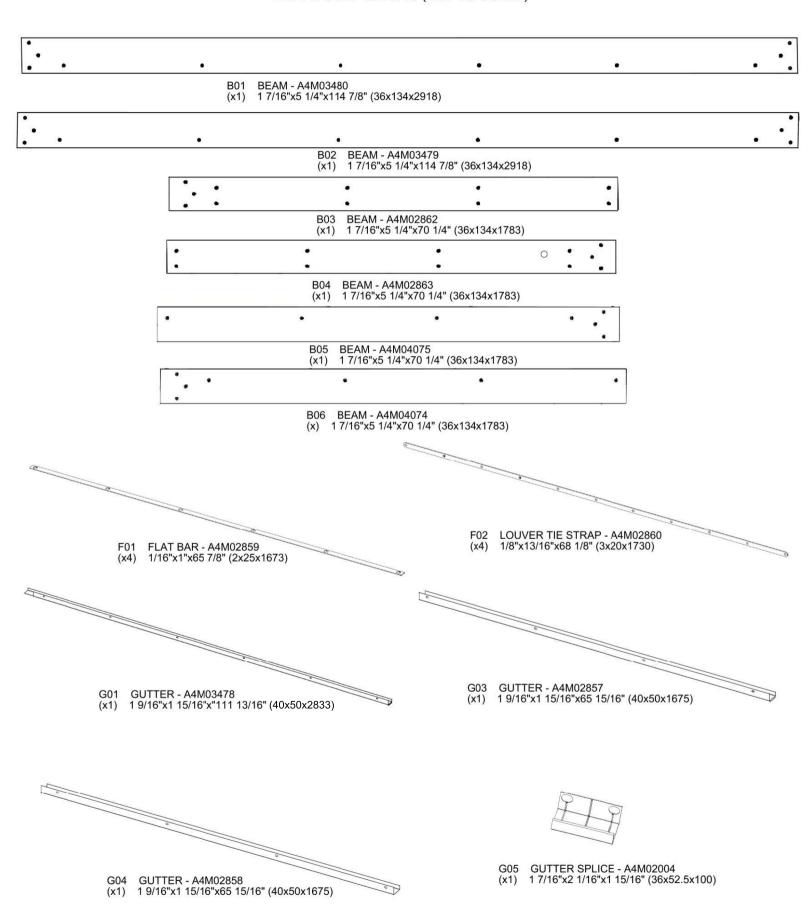


OWNER'S MANUAL - ANCHORING LAYOUT

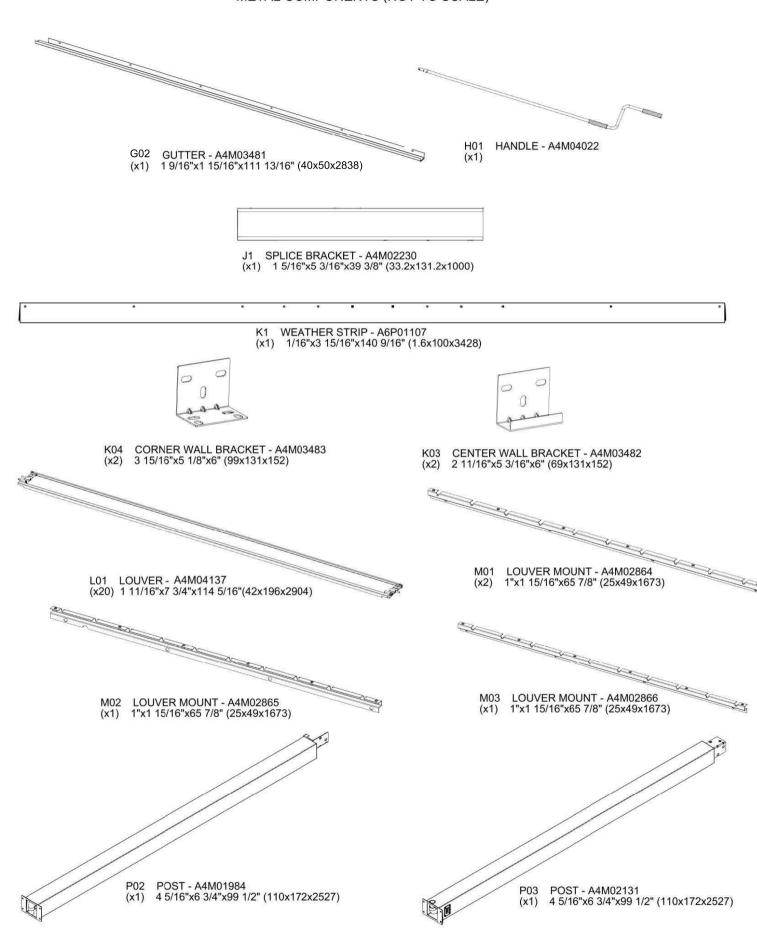


NOTE: DIMENSIONS ARE TO ANCHOR PLATE ON BOTTOM OF POST EXCEPT WHERE NOTED.

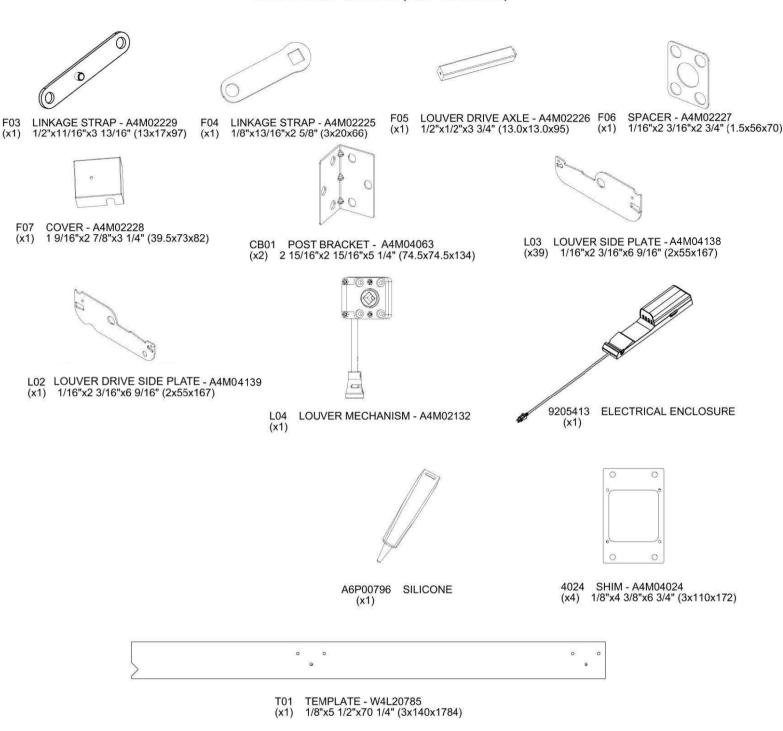
METAL COMPONENTS (NOT TO SCALE)



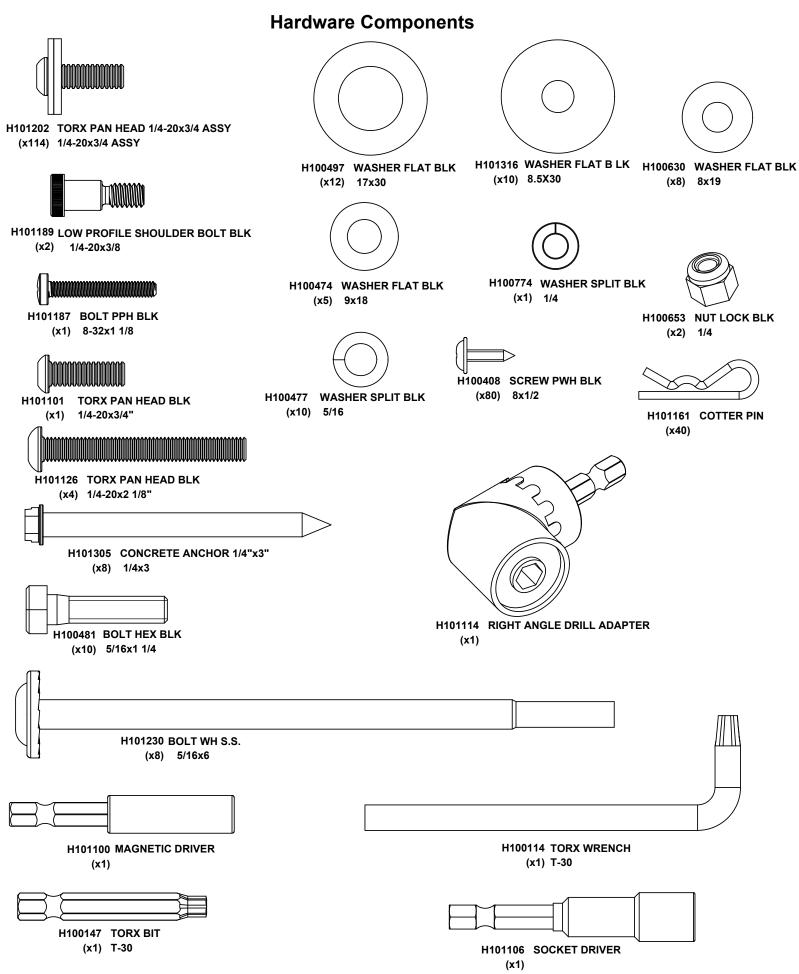
METAL COMPONENTS (NOT TO SCALE)



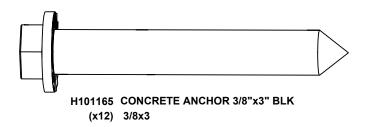
METAL COMPONENTS (NOT TO SCALE)

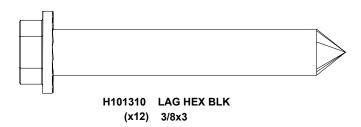


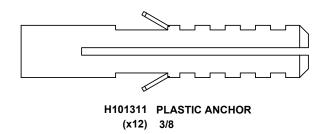
T02 TEMPLATE - W4L20786 (x1) 1/8"x5 1/2"x71 1/4" (3x140x1809)

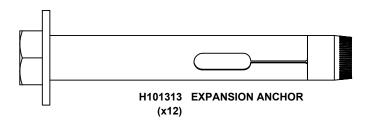


Hardware Components









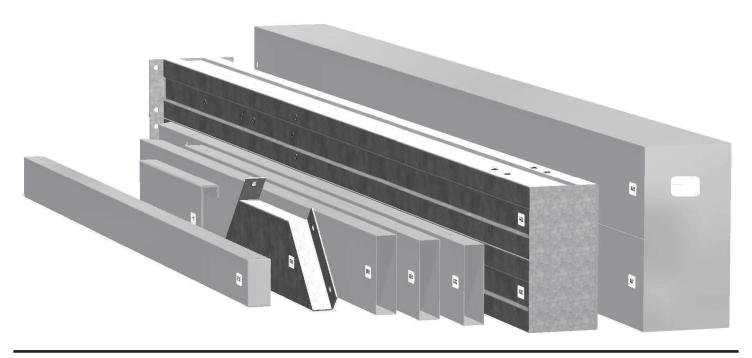
PRE-ASSEMBLY STEP 1 - SORTING PARTS

It is critical for ease of assembly that you take the time to sort and organize the parts and hardware.

METAL PARTS:

- Organize metal parts by the three-digit, alpha-numeric number stamped on each part (ex. P01).
- If there are multiple parts with the same stamped number, stack those pieces together.
- Stamps can be found on the flat surface of the parts or on the end of the parts.
- Allow yourself plenty of room the parts can take up a significant amount of space.

NOTE: CARTONS ARE NOT ORGANIZED BY PART NUMBER.
IT IS RECOMMENDED TO LEAVE LOUVER ASSEMBLIES IN BOX UNTIL NEEDED.

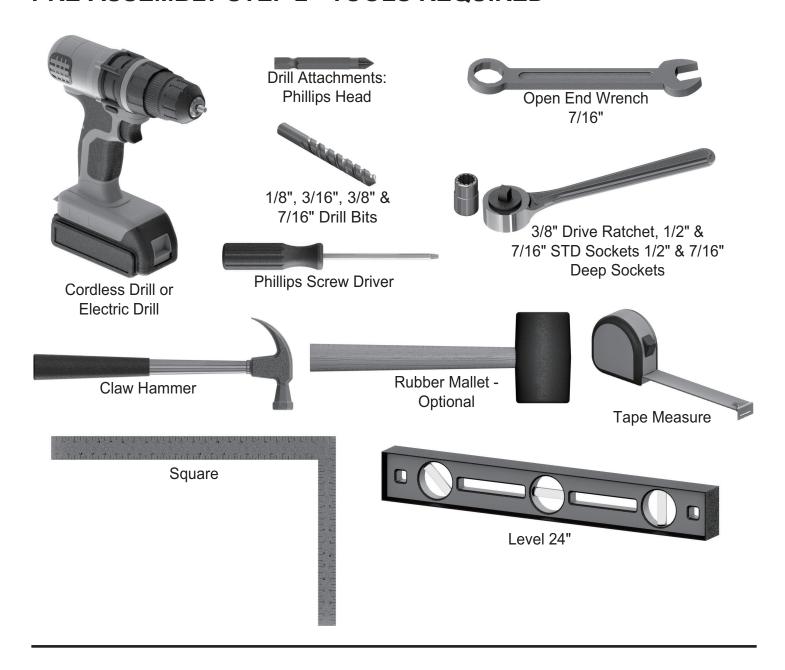


HARDWARE PARTS:

- We recommend that you have a separate table to organize the hardware.
- Hardware bags are printed with a seven-digit, alpha-numeric part number.
- You can organize your hardware by part number or group by hardware type (e.g. bolts, nuts, etc.).
- During assembly you only need to reference the last four digits of the number.



PRE-ASSEMBLY STEP 2 - TOOLS REQUIRED



PRE-ASSEMBLY STEP 3 - CHOOSE YOUR ASSEMBLY METHOD

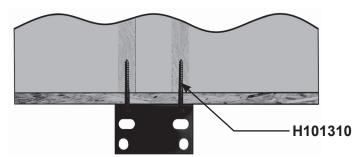
There are several types of assembly instructions available to you.

- 1. Printed Assembly Manual included with your set
- 2. BILT APP 3D interactive instructions
- 3. Combination of the Printed Manual and BILT APP (Note: Step numbers can differ between the two methods)

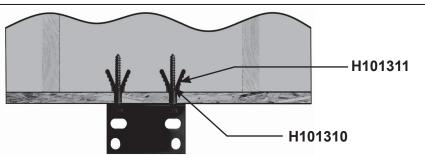


OWNER'S MANUAL - WALL ATTACHMENT TYPES

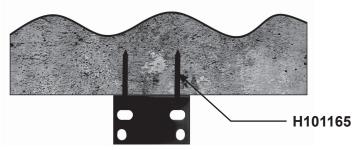
Determine which wall attachment type works best for your application. If unknown consult a licensed contractor. The recommended hardware below is provided. Backyard Discovery does not assume responsibility for any damages to your house.



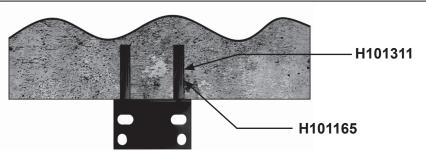
ATTACHING TO WALL WITH LAG SCREWS



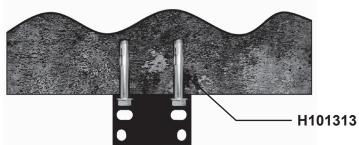
ATTACHING TO WALL WITH LAGS USING PLASTIC ANCHORS



ATTACHING TO MASONRY WITH CONCRETE ANCHORS

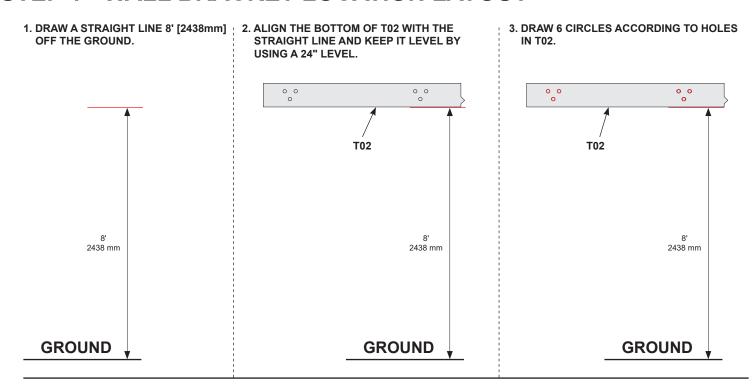


ATTACHING TO MASONRY WITH CONCRETE ANCHORS USING PLASTIC ANCHORS



ATTACHING TO MASONRY WITH EXPANSION ANCHORS

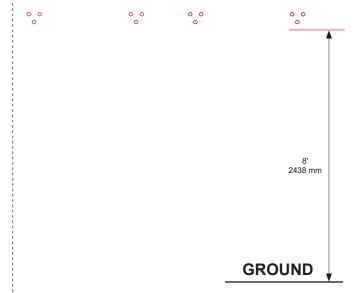
STEP 1 - WALL BRACKET LOCATION LAYOUT



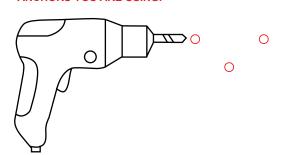
4. ALIGN T01 WITH T02 AND KEEP T01 LEVEL BY USING A 24" LEVEL.

T02 T01

5. DRAW 6 CIRCLES ACCORDING TO HOLES IN T01.



6. DRILL INTO THE WALL AT THE CENTER OF EACH CIRCLE. DRILL SIZE DETAILS ARE OUTLINED IN STEP 2A-E, DEPENDING ON WHAT ANCHORS YOU ARE USING.





CRITICAL: ALL HOLES MUST BE LEVEL ACROSS THE 4 BRACKETS.

STEP 2A - WALL BRACKET INSTALLATION **USING CONCRETE ANCHORS**



K04 CORNER WALL BRACKET - A4M03483 (x2) 3 15/16"x5 1/8"x6" (99x131x152)



| | | Description |
|----|---------|----------------------------|
| 12 | H100497 | WASHER FLAT 17x30 BLK |
| 12 | H101165 | CONCRETE ANCHOR 3/8x3" BLK |

K03 CENTER WALL BRACKET - A4M03482 (x2) 2 11/16"x5 3/16"x6" (69x131x152)

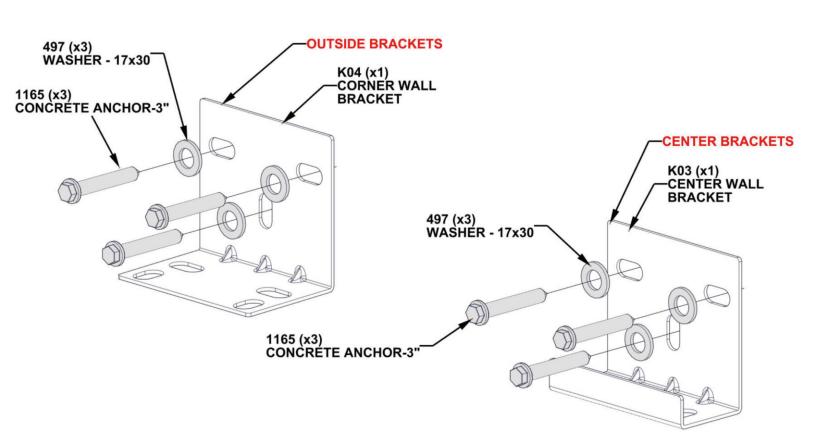
- DRILL (12) 5/16" [8mm] HOLES IN THE WALL ACCORDING TO LAYOUT IN STEP 1. INSTALL WALL BRACKETS WITH CONCRETE ANCHORS.
- THE INSTALLATION HEIGHT OF WALL BRACKETS WILL BE A LITTLE HIGHER THAN THE HEIGHT OF P02 (POST), SO THE TOP HAS A SLIGHT ANGLE TO FACILITATE DRAINAGE. - REPEAT THIS STEP TWO TIMES



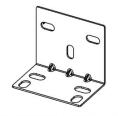




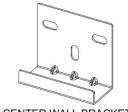




STEP 2B - WALL BRACKET INSTALLATION USING CONCRETE **ANCHORS WITH PLASTIC ANCHORS**



K04 CORNER WALL BRACKET - A4M03483 (x2) 3 15/16"x5 1/8"x6" (99x131x152)



| 0 | | |
|-----|---------|----------------------------|
| Qty | PartNo | Description |
| 12 | H100497 | WASHER FLAT 17x30 BLK |
| 12 | H101165 | CONCRETE ANCHOR 3/8x3" BLK |
| 12 | H101311 | PLASTIC ANCHOR 3/8x3 |

K03 CENTER WALL BRACKET - A4M03482 (x2) 2 11/16"x5 3/16"x6" (69x131x152)

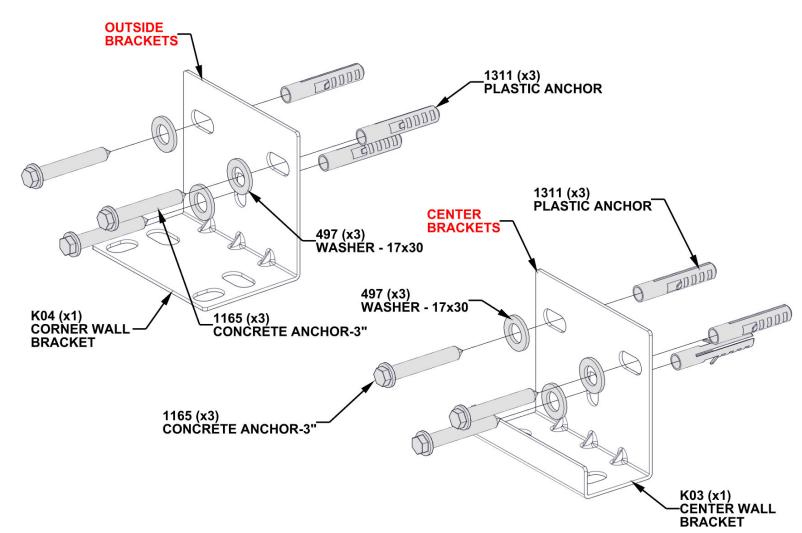
- DRILL (12) 1/2" [12mm] HOLES IN THE WALL ACCORDING TO LAYOUT IN STEP 1. INSTALL WALL BRACKETS WITH CONCRETE ANCHORS AND PLASTIC ANCHORS.
- THE INSTALLATION HEIGHT OF WALL BRACKETS WILL BE A LITTLE HIGHER THAN THE HEIGHT OF P02 (POST), SO THE TOP HAS A SLIGHT ANGLE TO FACILITATE DRAINAGE.
- REPEAT THIS STEP TWO TIMES



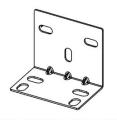




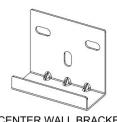




STEP 2C - WALL BRACKET INSTALLATION **USING LAG SCREWS**



K04 CORNER WALL BRACKET - A4M03483 (x2) 3 15/16"x5 1/8"x6" (99x131x152)



K03 CENTER WALL BRACKET - A4M03482 (x2) 2 11/16"x5 3/16"x6" (69x131x152)

PartNo Description H100497 WASHER FLAT 17x30 BLK 12 H101310 LAG BOLT HEX 3/8 X 3 BLK

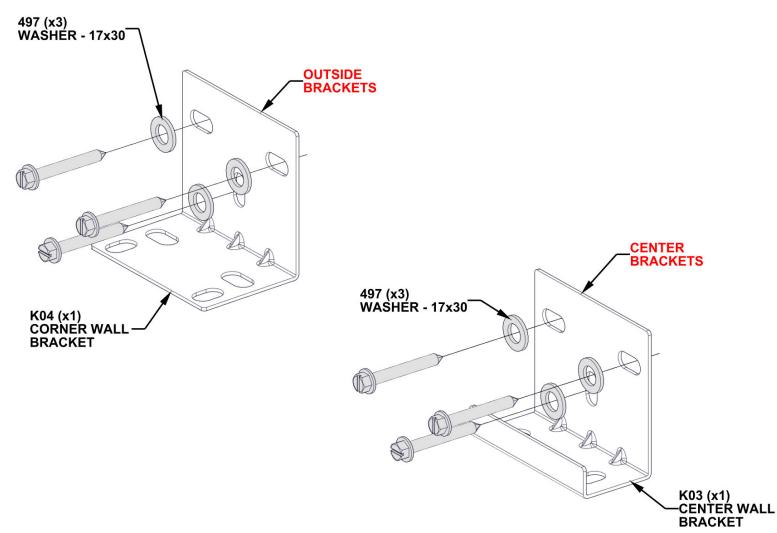
- DRILL (12) 1/4" [7mm] HOLES IN THE WALL ACCORDING TO LAYOUT IN STEP 1. - INSTALL WALL BRACKETS WITH LAG SCREWS.
- THE INSTALLATION HEIGHT OF WALL BRACKETS WILL BE A LITTLE HIGHER THAN THE HEIGHT OF P02 (POST), SO THE TOP HAS A SLIGHT ANGLE TO FACILITATE DRAINAGE. - REPEAT THIS STEP TWO TIMES



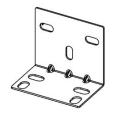




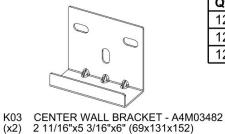




STEP 2D - WALL BRACKET INSTALLATION USING LAG **SCREWS WITH PLASTIC ANCHORS**



K04 CORNER WALL BRACKET - A4M03483 (x2) 3 15/16"x5 1/8"x6" (99x131x152)



| Qty | PartNo | Description |
|-----|---------|--------------------------|
| 12 | H100497 | WASHER FLAT 17x30 BLK |
| 12 | H101310 | LAG BOLT HEX 3/8 X 3 BLK |
| 12 | H101311 | PLASTIC ANCHOR 3/8x3 |

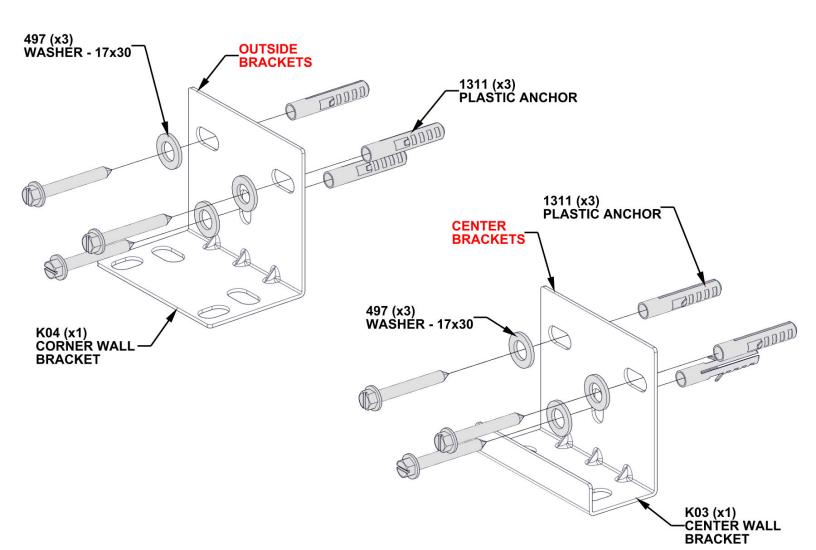
- DRILL (12) 1/2" [12mm] HOLES IN THE WALL ACCORDING TO LAYOUT IN STEP 1.
- INSTALL WALL BRACKETS WITH LAG SCREWS AND PLASTIC ANCHORS.
- THE INSTALLATION HEIGHT OF WALL BRACKETS WILL BE A LITTLE HIGHER THAN THE HEIGHT OF P02 (POST), SO THE TOP HAS A SLIGHT ANGLE TO FACILITATE DRAINAGE. - REPEAT THIS STEP TWO TIMES



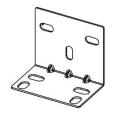








STEP 2E - WALL BRACKET INSTALLATION USING EXPANSION ANCHORS



K04 CORNER WALL BRACKET - A4M03483 (2x) 3 15/16"x5 1/8"x6" (99x131x152)



| | | Description |
|----|---------|-----------------------|
| 12 | H100497 | WASHER FLAT 17x30 BLK |
| 12 | H101313 | EXPANSION ANCHOR |

K03 CENTER WALL BRACKET - A4M03482 (2x) 2 11/16"x5 3/16"x6" (69x131x152)

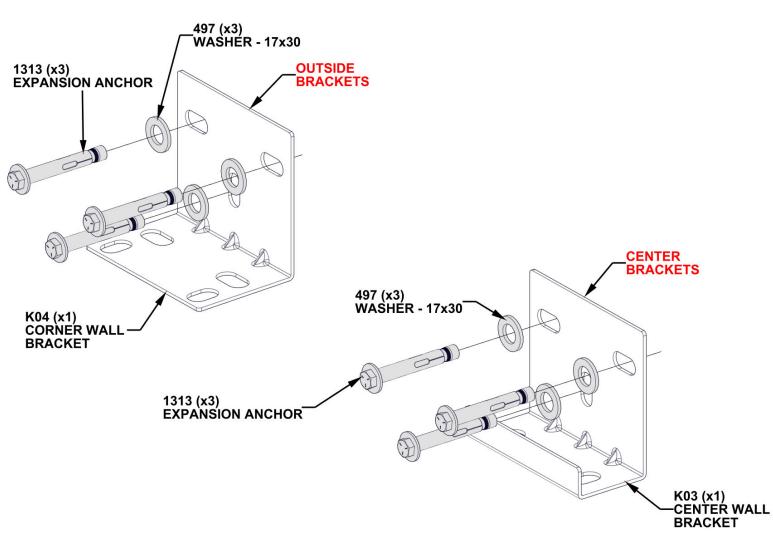
- DRILL (12) 3/8" [10mm] HOLES IN THE WALL ACCORDING TO LAYOUT IN STEP 1.
- INSTALL WALL BRACKETS WITH EXPANSION BOLTS.
- THE INSTALLATION HEIGHT OF WALL BRACKETS WILL BE A LITTLE HIGHER THAN THE HEIGHT OF P02 (POST), SO THE TOP HAS A SLIGHT ANGLE TO FACILITATE DRAINAGE.
- REPEAT THIS STEP TWO TIMES





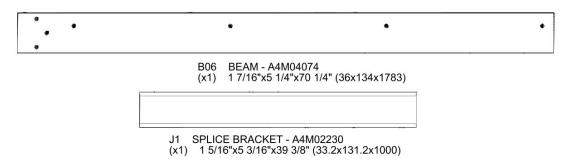




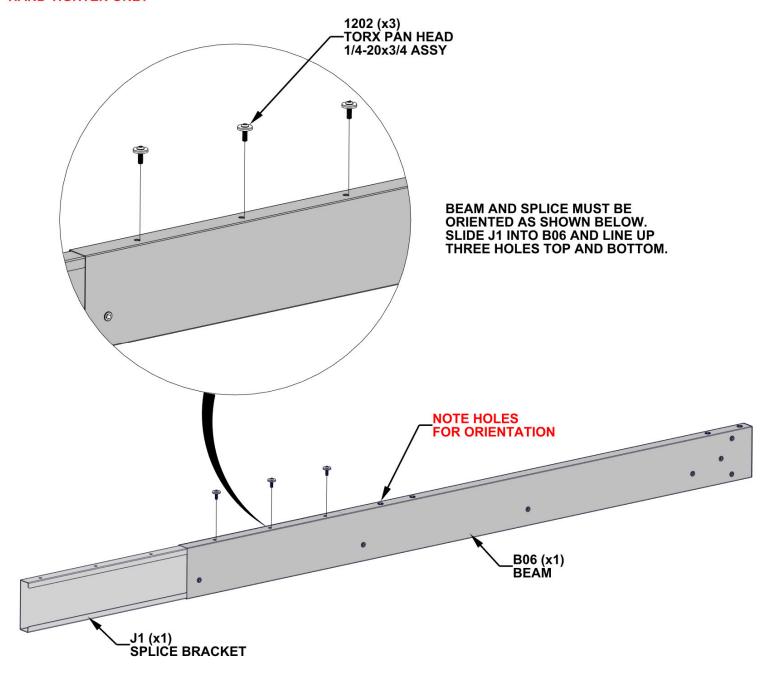


STEP 3A - REAR BEAM ASSEMBLY

| Qty | PartNo | Description |
|-----|---------|-------------------------------|
| 3 | H101202 | TORX PAN HEAD 1/4-20x3/4 ASSY |



- FOR EASE OF ASSEMBLY, WE RECOMMEND USING SAWHORSES FOR STEPS 3A-7.
- HAND TIGHTEN ONLY



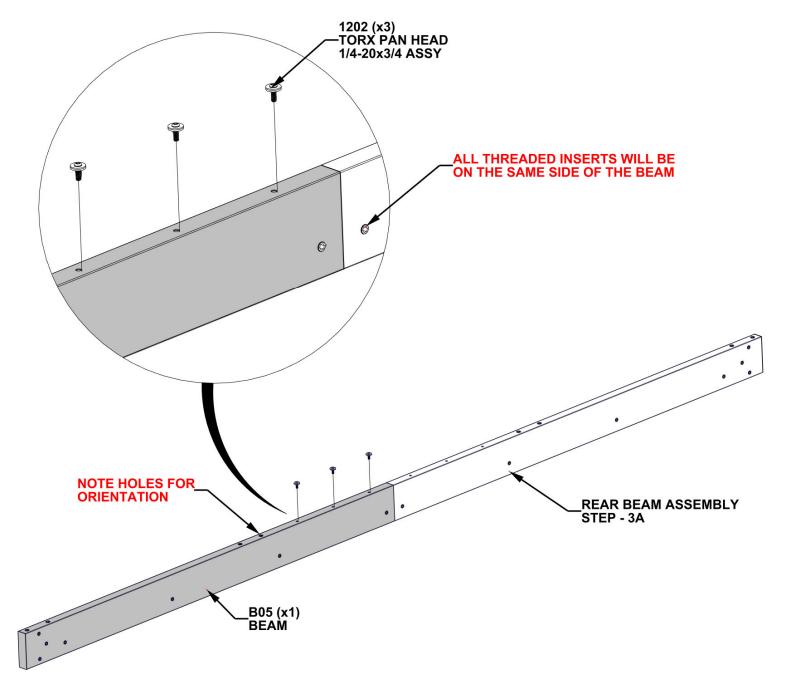
STEP 3B - REAR BEAM ASSEMBLY

| Qty | PartNo | Description |
|-----|---------|-------------------------------|
| 3 | H101202 | TORX PAN HEAD 1/4-20x3/4 ASSY |

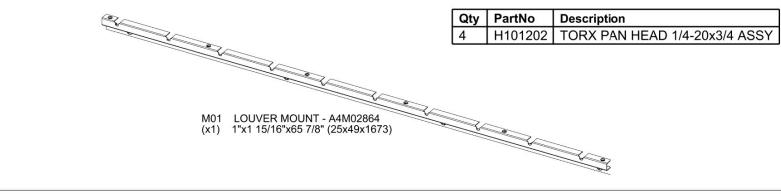


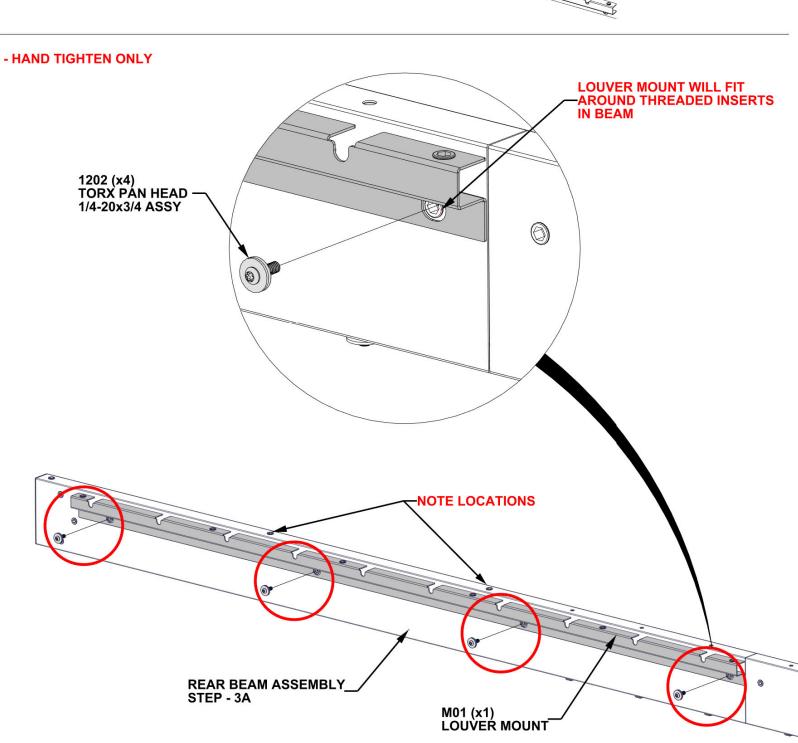
B05 BEAM - A4M04075 (x1) 1 7/16"x5 1/4"x70 1/4" (36x134x1783)

- SLIDE B05 ONTO SPLICE BRACKET. GENTLY TAP ENDS OF ASSEMBLY WITH RUBBER MALLET UNTIL GAP CLOSES, THEN TIGHTEN ALL BOLTS ON BEAM.
- HAND TIGHTEN ONLY

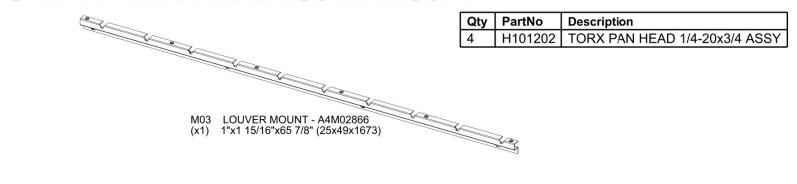


STEP 4A - REAR BEAM LOUVER MOUNT

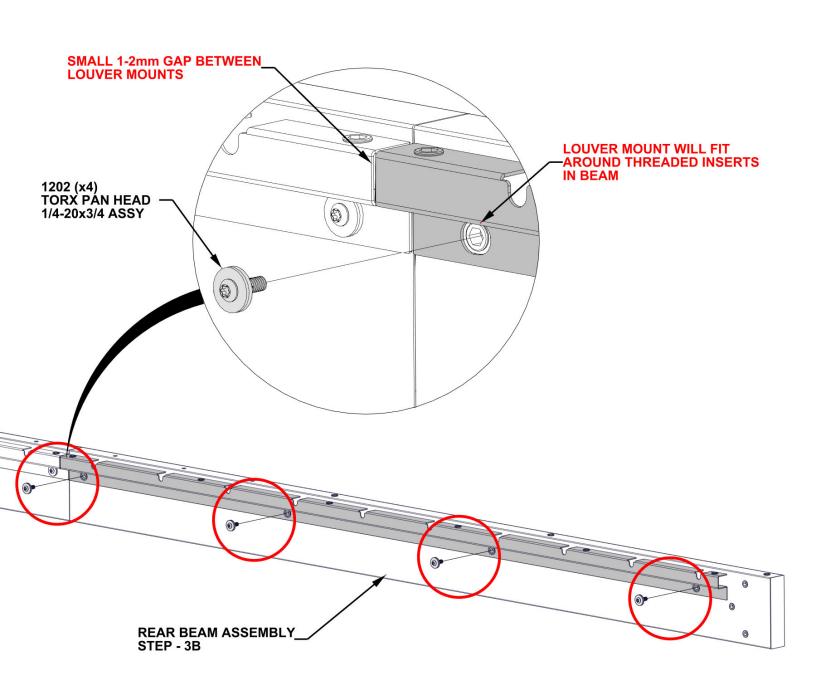




STEP 4B - REAR BEAM LOUVER MOUNT



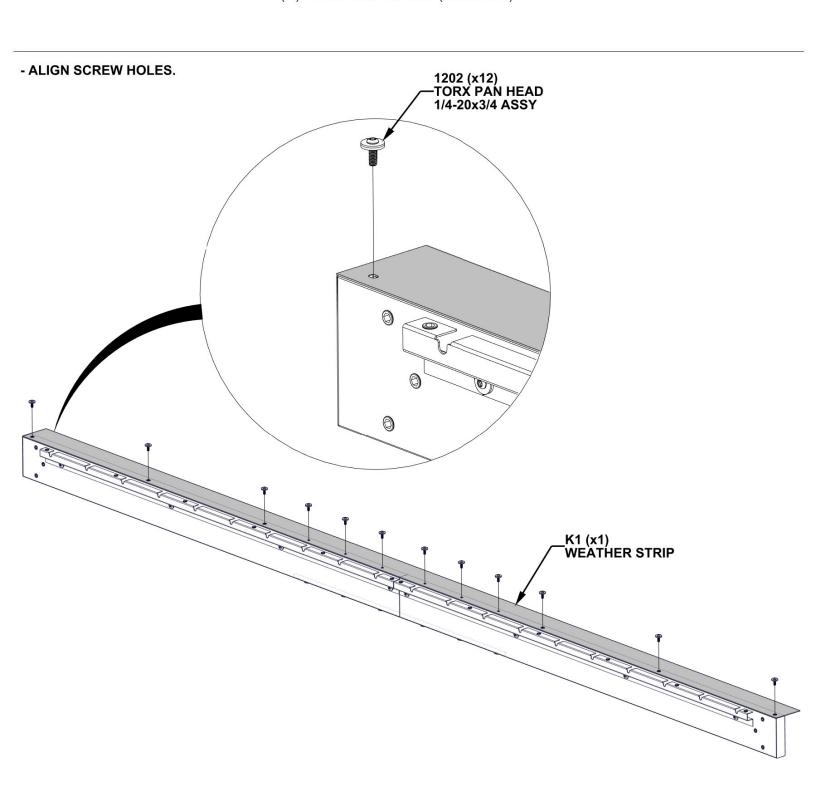
- HAND TIGHTEN ONLY



STEP 5 - REAR BEAM WEATHER STRIP

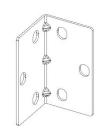
| Qty | PartNo | Description |
|-----|---------|-------------------------------|
| 12 | H101202 | TORX PAN HEAD 1/4-20x3/4 ASSY |

K1 WEATHER STRIP - A6P01107 (x1) 1/16"x3 15/16"x134 15/16" (1.6x100x3428)



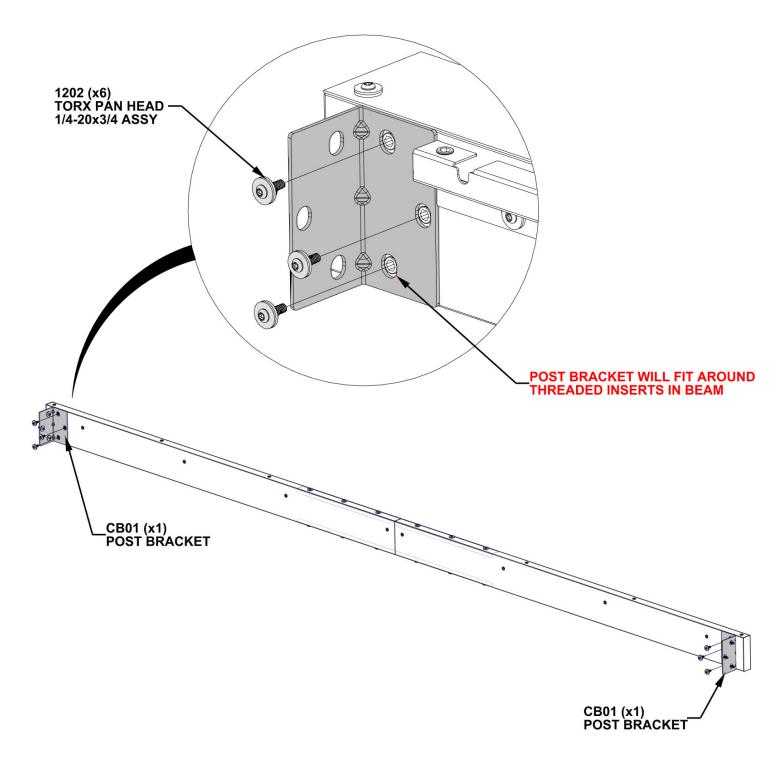
STEP 6 - REAR BEAM POST BRACKET

| Γ | Qty | PartNo | Description |
|---|-----|---------|-------------------------------|
| | 6 | H101202 | TORX PAN HEAD 1/4-20x3/4 ASSY |

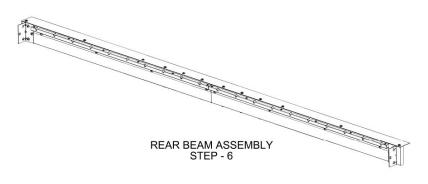


CB01 POST BRACKET - A4M04063 (x2) 2 15/16"x2 15/16"x5 1/4" (74.5x74.5x134)

- HAND TIGHTEN ONLY

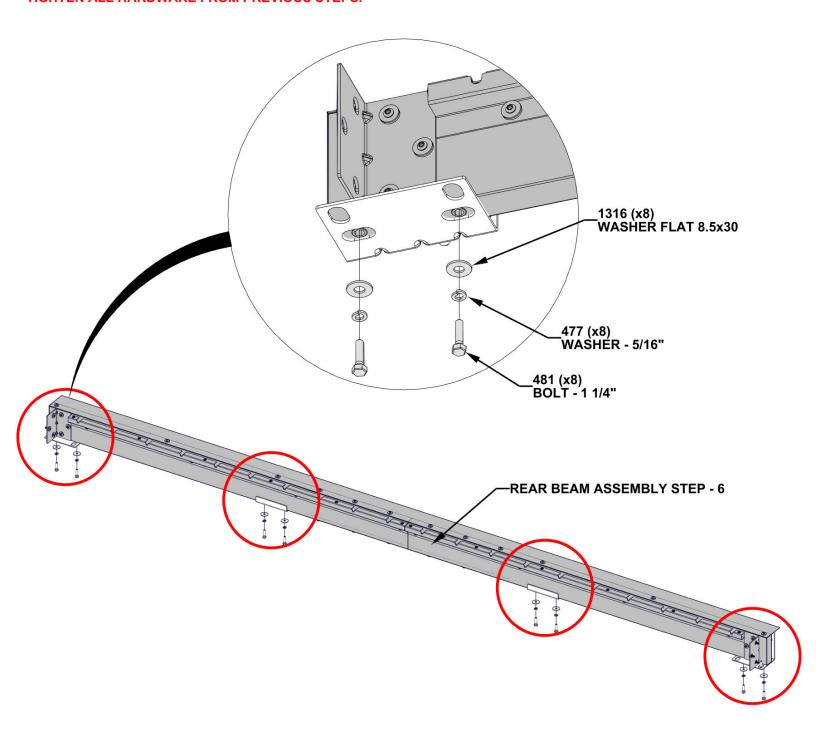


STEP 7 - REAR BEAM ASSEMBLY

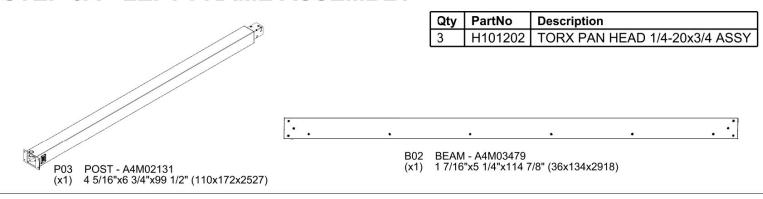


| Qty | PartNo | Description |
|-----|---------|-------------------------|
| 8 | H100477 | WASHER SPLIT 5/16 BLK |
| 8 | H100481 | BOLT HEX 5/16x1 1/4 BLK |
| 8 | H101316 | WASHER FLAT 8.5x30 BLK |

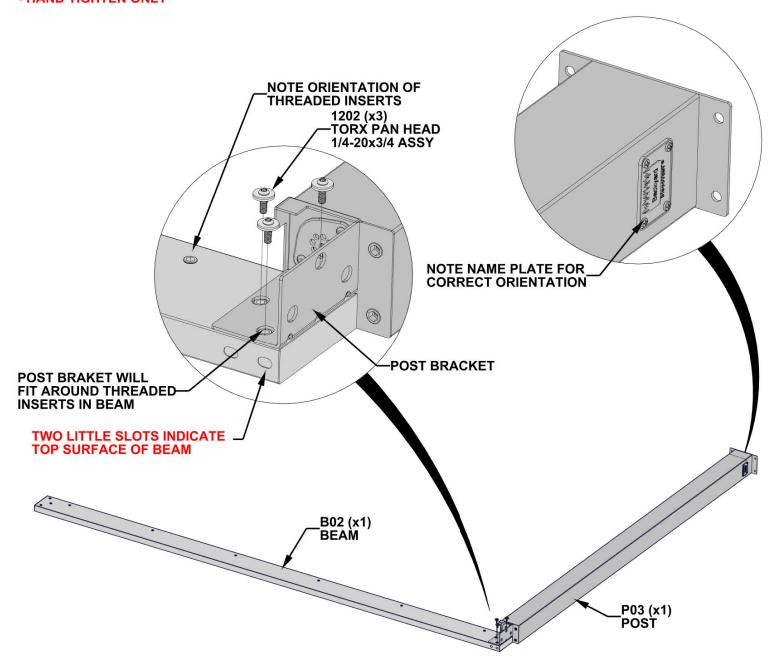
- WITH THE HELP OF ANOTHER ADULT, ATTACH REAR BEAM ASSEMBLY TO WALL BRACKETS.
- ALIGN SCREW HOLES.
- TIGHTEN ALL HARDWARE FROM PREVIOUS STEPS.



STEP 8A - LEFT FRAME ASSEMBLY

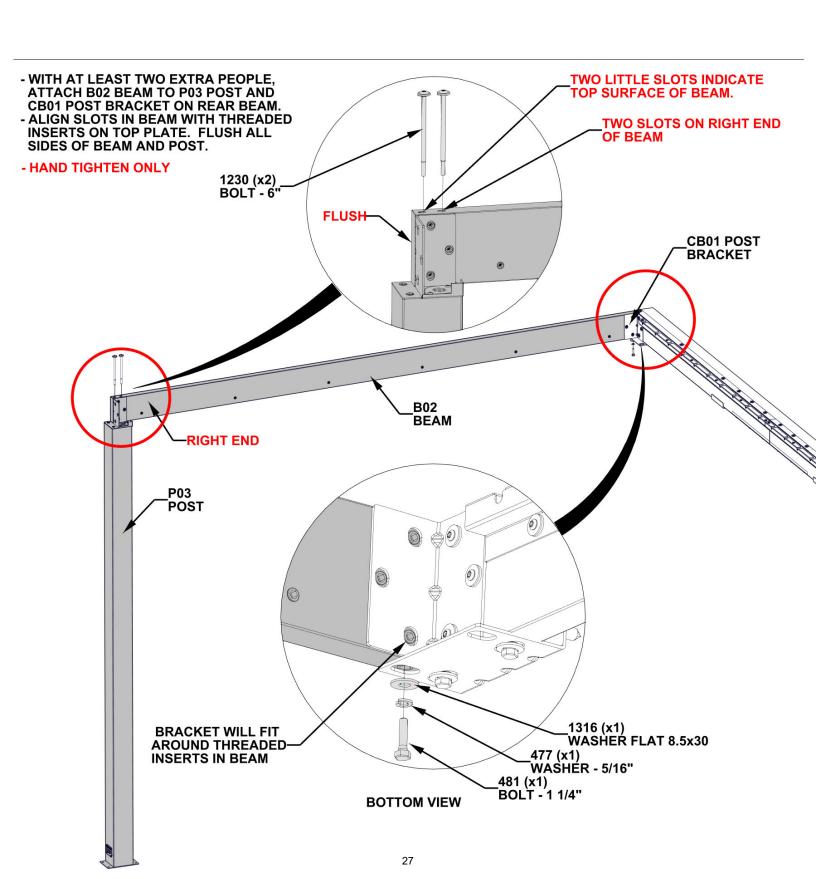


- ATTACH B02 BEAM TO POST BRACKET ON POST P03.
- HAND TIGHTEN ONLY



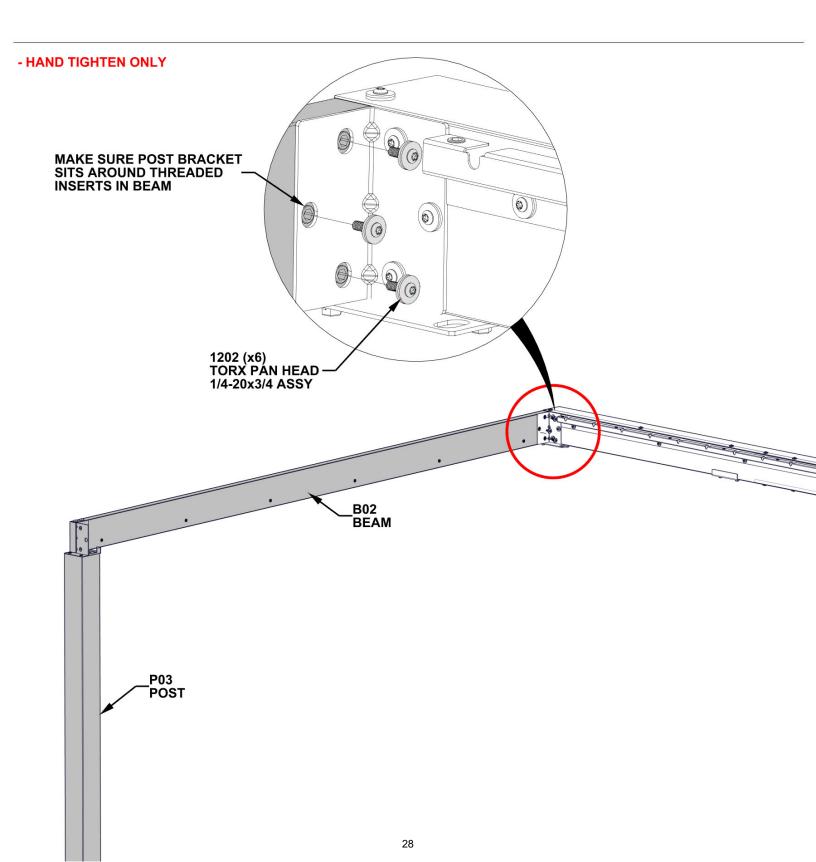
STEP 8B - LEFT FRAME ASSEMBLY

| Qty | PartNo | Description |
|-----|---------|-------------------------|
| 1 | H100477 | WASHER SPLIT 5/16 BLK |
| 1 | H100481 | BOLT HEX 5/16x1 1/4 BLK |
| 2 | H101230 | BOLT WH 5/16x6 S.S. |
| 1 | H101316 | WASHER FLAT 8.5x30 BLK |

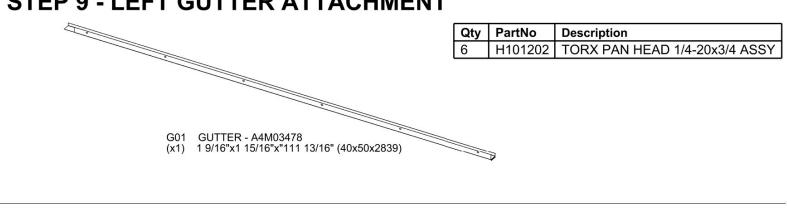


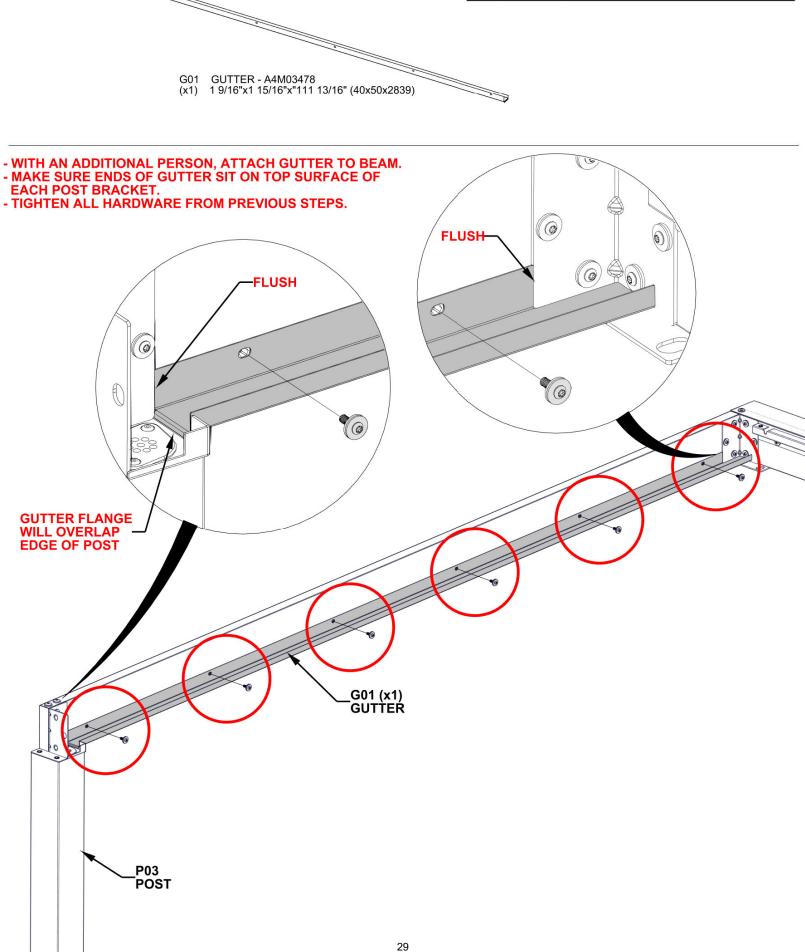
STEP 8C - LEFT FRAME ASSEMBLY

| Qty | PartNo | Description |
|-----|---------|-------------------------------|
| 3 | H101202 | TORX PAN HEAD 1/4-20x3/4 ASSY |

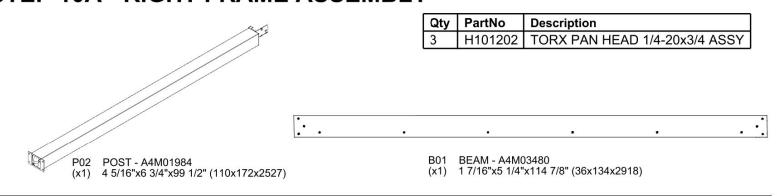


STEP 9 - LEFT GUTTER ATTACHMENT

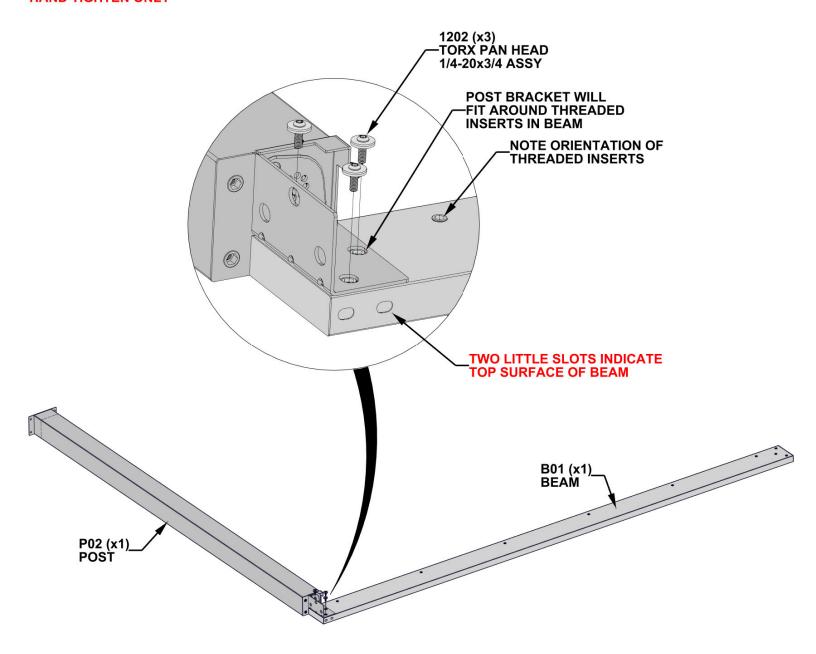




STEP 10A - RIGHT FRAME ASSEMBLY

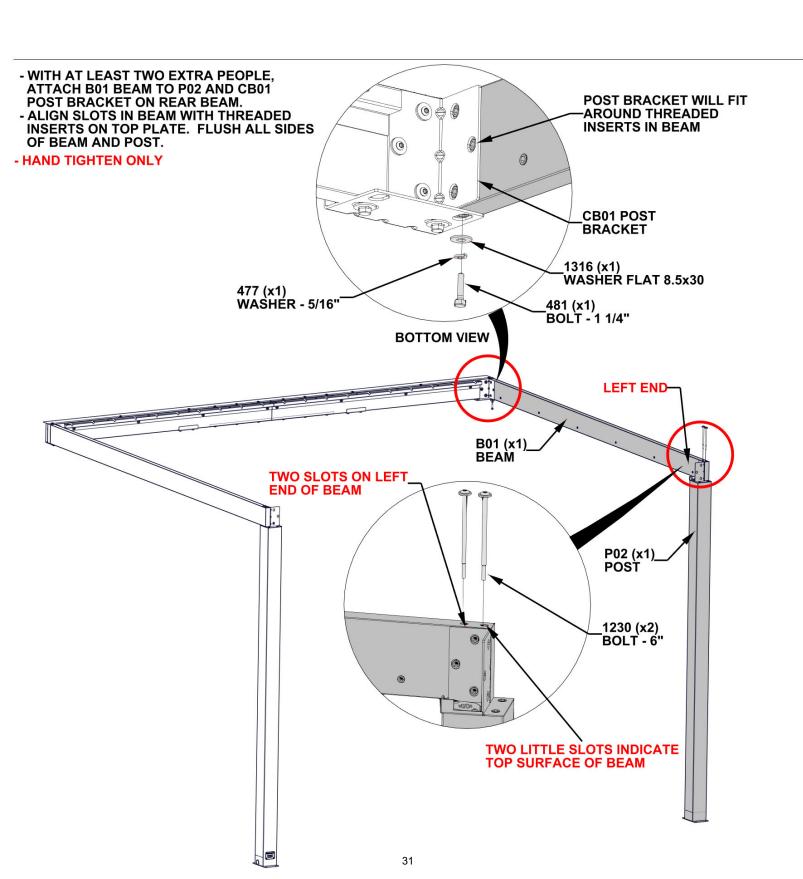


- ATTACH B01 TO POST BRACKET ON POST P02
- HAND TIGHTEN ONLY



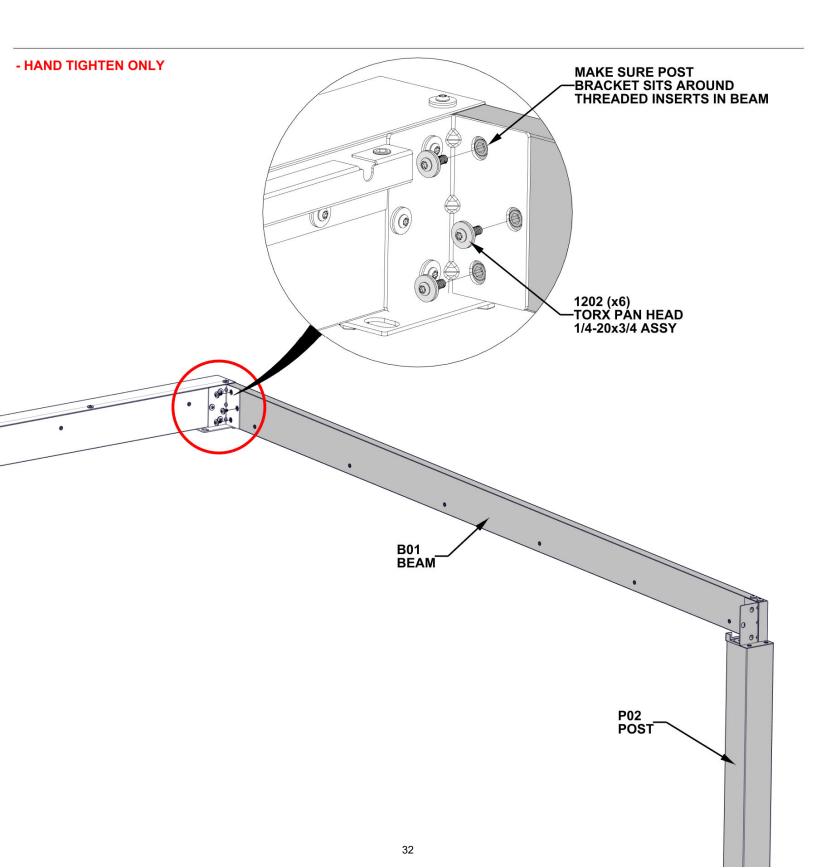
STEP 10B - RIGHT FRAME ASSEMBLY

| Qty | PartNo | Description |
|-----|---------|-------------------------|
| 1 | H100477 | WASHER SPLIT 5/16 BLK |
| 1 | H100481 | BOLT HEX 5/16x1 1/4 BLK |
| 2 | H101230 | BOLT WH 5/16x6 S.S. |
| 1 | H101316 | WASHER FLAT 8.5x30 BLK |

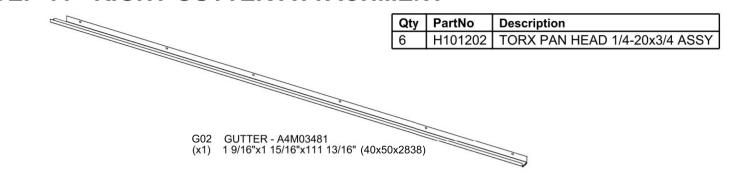


STEP 10C- RIGHT FRAME ASSEMBLY

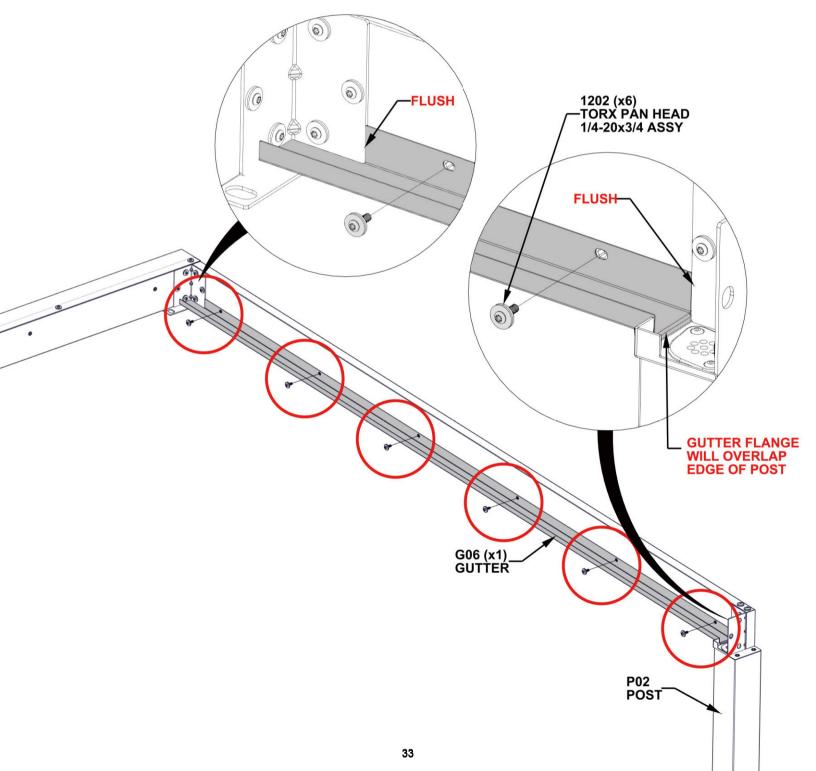
| Qty | PartNo | Description |
|-----|---------|-------------------------------|
| 3 | H101202 | TORX PAN HEAD 1/4-20x3/4 ASSY |



STEP 11 - RIGHT GUTTER ATTACHMENT



- WITH AN ADDITIONAL PERSON, ATTACH GUTTER TO BEAM.
- MAKE SURE ENDS OF GUTTER SIT ON TOP SURFACE OF EACH POST BRACKET.
- TIGHTEN ALL HARDWARE FROM PREVIOUS STEPS.

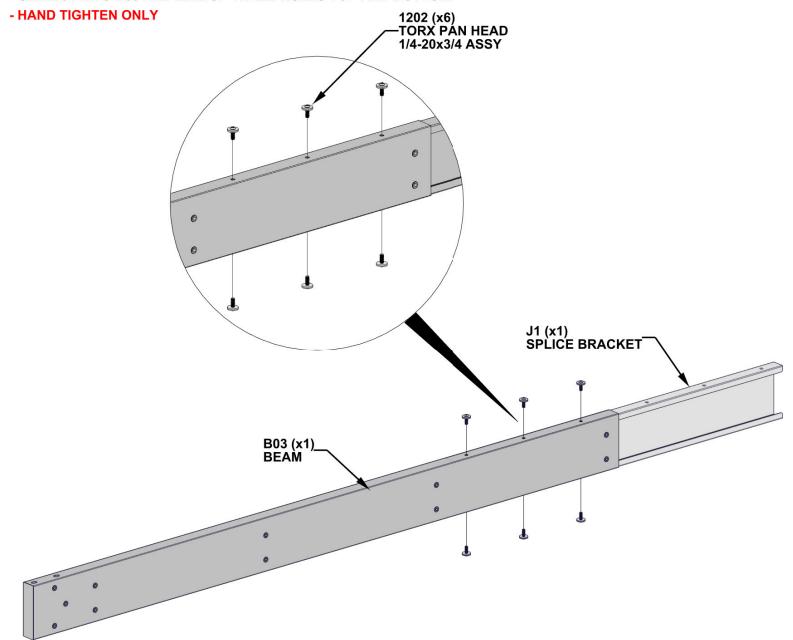


STEP 12 - FRONT BEAM ASSEMBLY

QtyPartNoDescription6H101202TORX PAN HEAD 1/4-20x3/4 ASSY

B03 BEAM - A4M02862 (x1) 1 7/16"x5 1/4"x70 1/4" (36x134x1783)

- J1 SPLICE BRACKET A4M02230 (x1) 1 5/16"x5 3/16"x39 3/8" (33.2x131.2x1000)
- BEAM AND SPLICE MUST BE ORIENTED AS SHOWN BELOW.
- SLIDE J1 INTO B03 AND LINE UP THREE HOLES TOP AND BOTTOM.



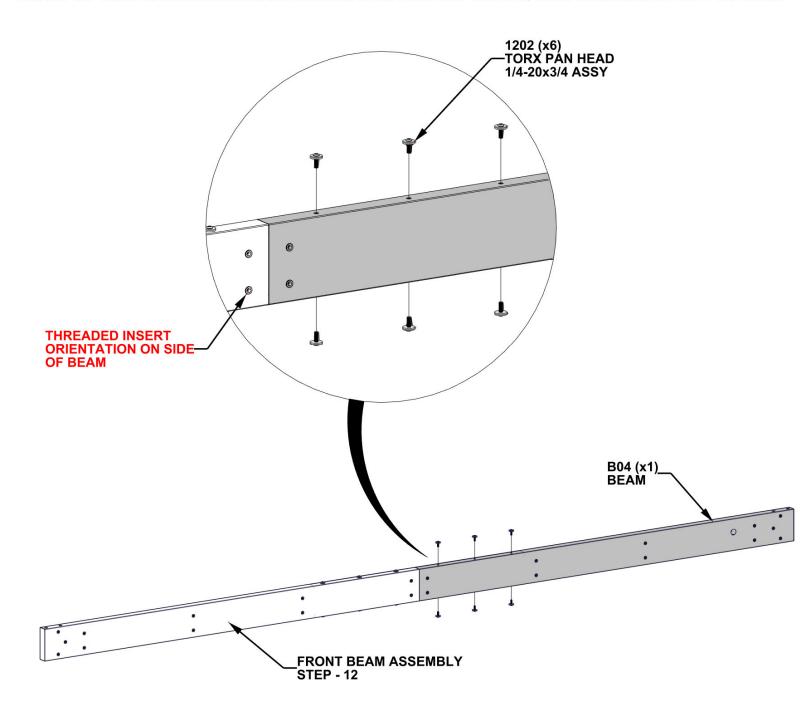
STEP 13 - FRONT BEAM ASSEMBLY

| 1 | Qty | PartNo | Description | |
|---|-----|---------|-------------------------------|--|
| 1 | 6 | H101202 | TORX PAN HEAD 1/4-20x3/4 ASSY | |

| • | • | • | 0 | • | • |
|---|---|---|---|---|---|
| • | • | • | | • | • |

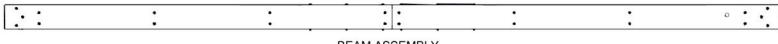
B04 BEAM - A4M02863 (x1) 1 7/16"x5 1/4"x70 1/4" (36x134x1783)

- SLIDE B04 ONTO SPLICE BRACKET.
- GENTLY TAP ENDS OF ASSEMBLY WITH RUBBER MALLET UNTIL GAP CLOSES, THEN TIGHTEN ALL BOLTS ON BEAM.



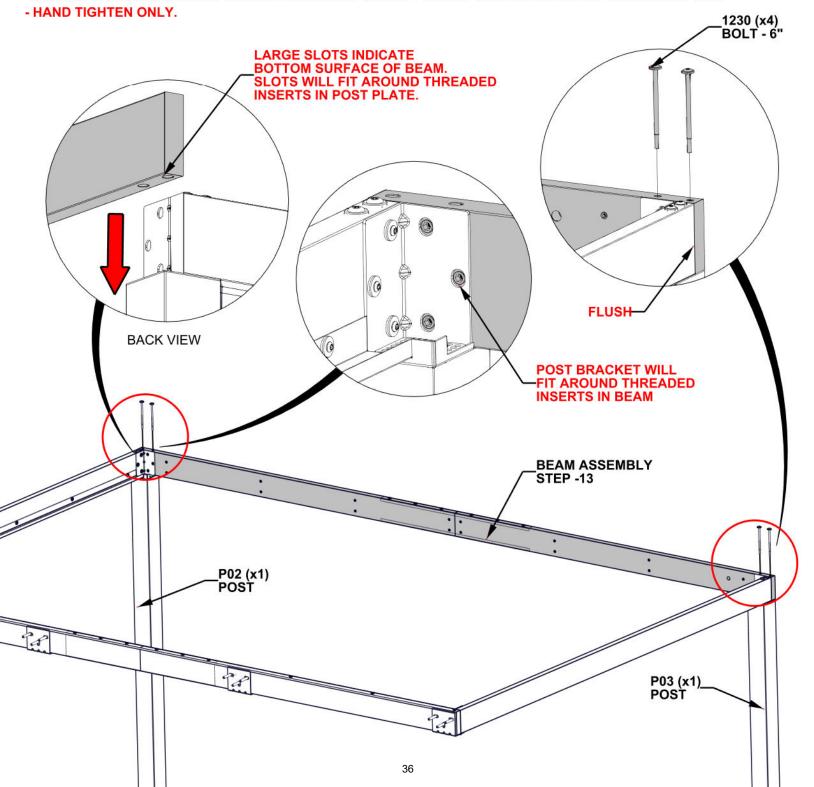
STEP 14A - FRONT FRAME ASSEMBLY

| Q | ty | PartNo | Description |
|---|----|---------|---------------------|
| 4 | | H101230 | BOLT WH 5/16x6 S.S. |



BEAM ASSEMBLY STEP - 13

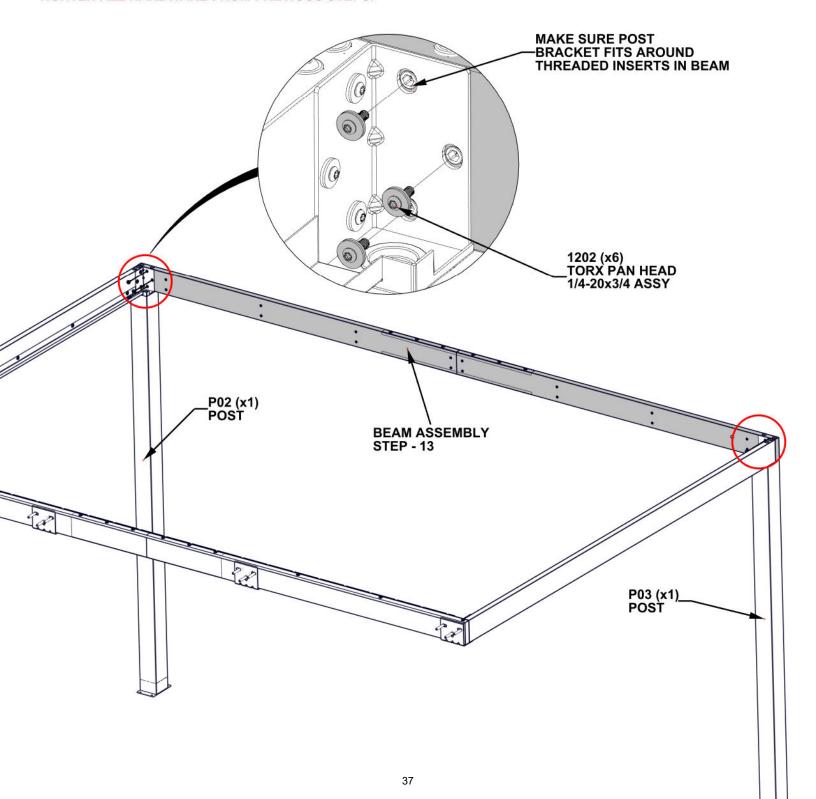
- WITH AT LEAST TWO EXTRA PEOPLE, ATTACH BEAM ASSEMBLY FROM PREVIOUS STEPS TO P02 AND P03 POST. ALIGN SLOTS IN BEAM WITH THREADED INSERTS ON TOP PLATE. FLUSH ALL SIDES OF BEAM AND POST.



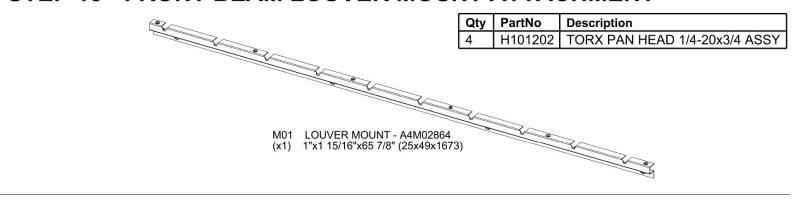
STEP 14B - FRONT FRAME ASSEMBLY

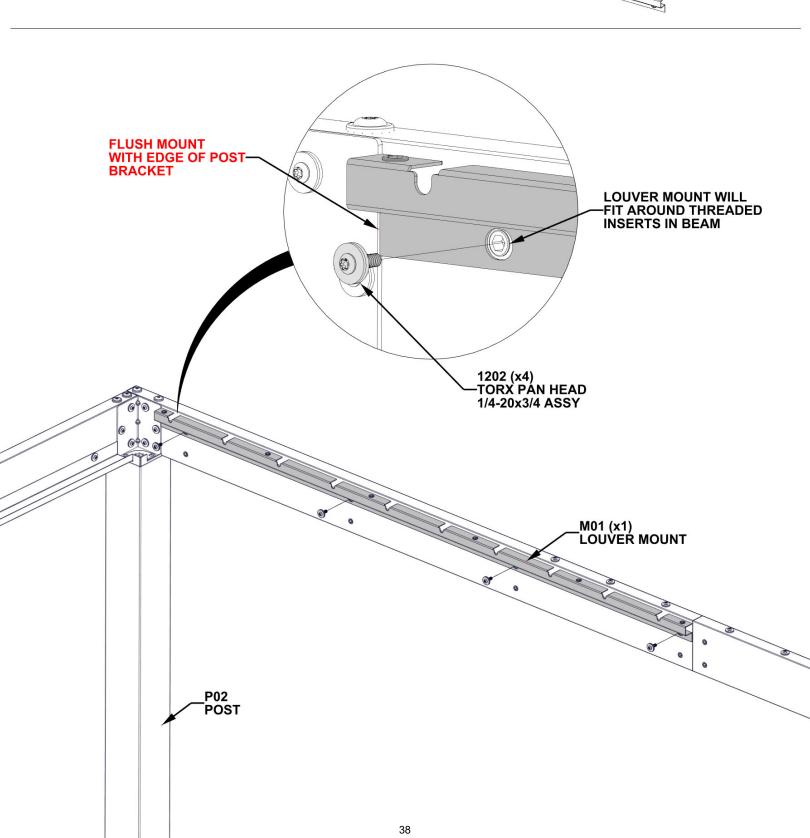
| | PartNo | Description |
|---|---------|-------------------------------|
| 6 | H101202 | TORX PAN HEAD 1/4-20x3/4 ASSY |

- TIGHTEN ALL HARDWARE FROM PREVIOUS STEPS.

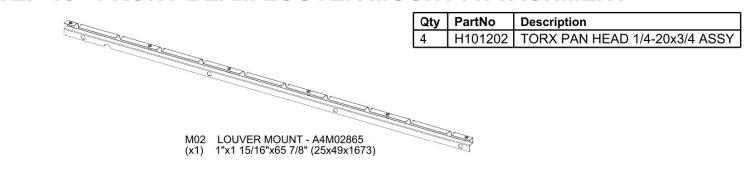


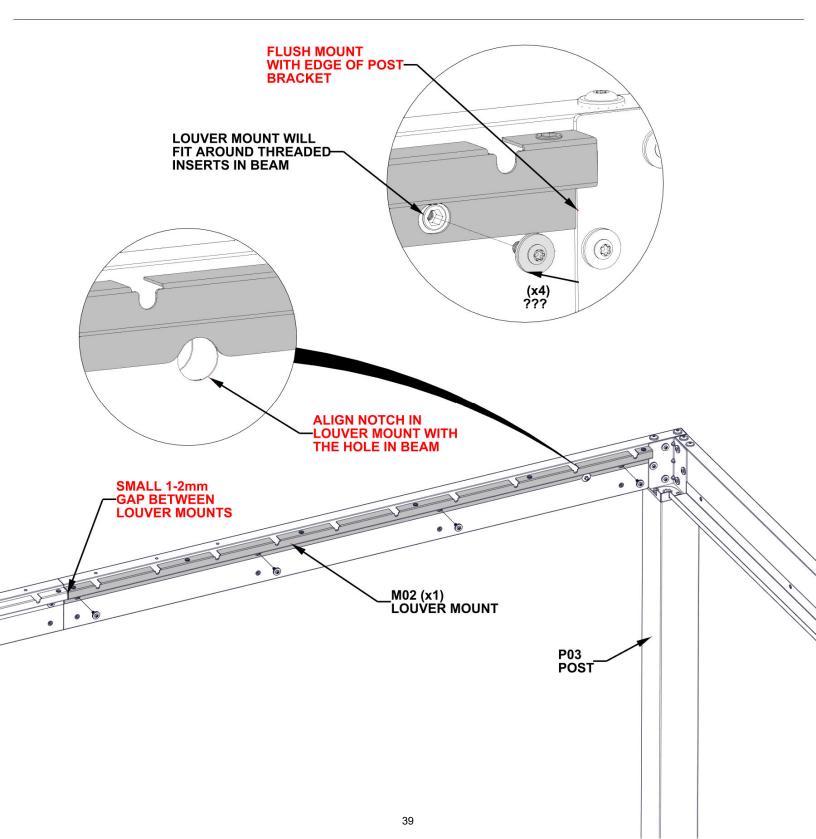
STEP 15 - FRONT BEAM LOUVER MOUNT ATTACHMENT





STEP 16 - FRONT BEAM LOUVER MOUNT ATTACHMENT

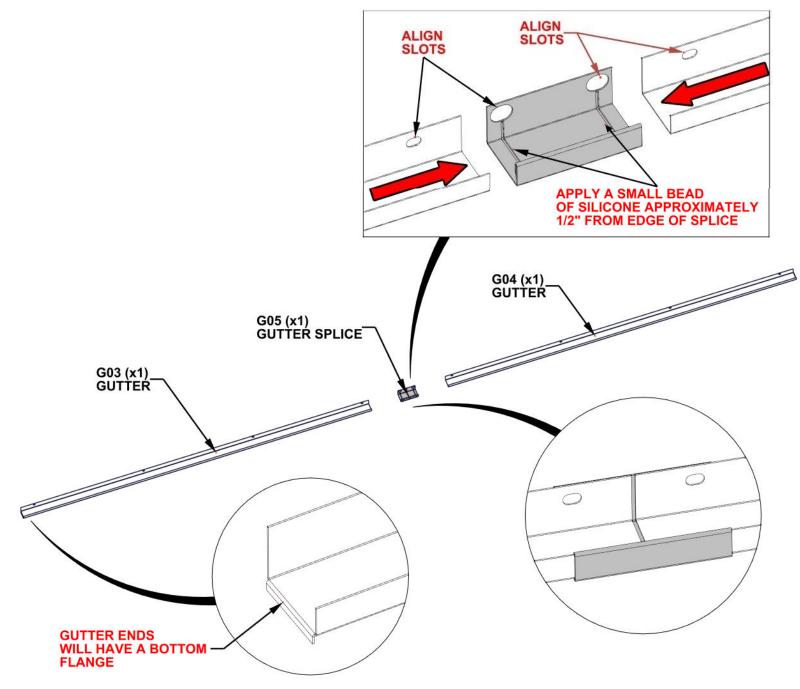




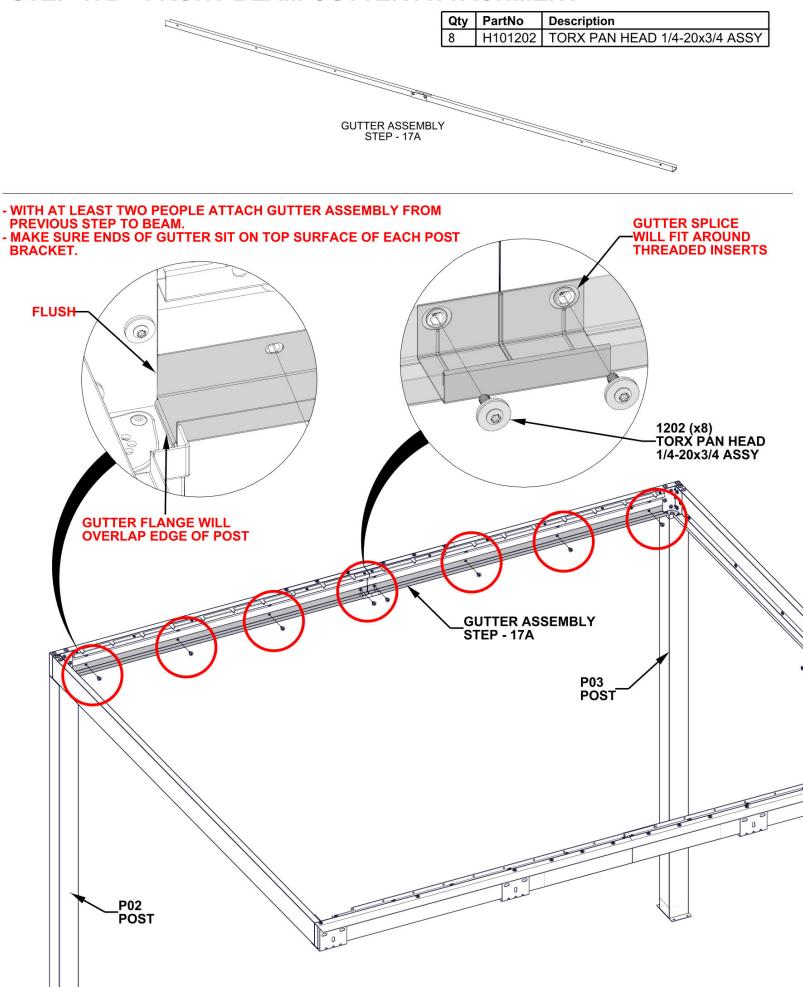
STEP 17A - FRONT BEAM GUTTER ATTACHMENT



- MEASURE APPROXIMATELY 1/2" [13 mm] FROM EACH END OF GUTTER SPLICE AND APPLY A FINE BEAD OF SILICONE.
- SLIDE BOTH G03 AND G04 GUTTERS INTO SPLICE, ALIGNING SLOTS (ENDS WILL ALMOST BE TOUCHING).
- WIPE OFF ANY EXCESS SILICONE USING A RAG OR PAPER TOWEL.
- GLOVES ARE RECOMMENDED WHEN APPLYING SILICONE.
- MAKE SURE SURFACE OF GUTTER SPLICE IS CLEAN, DRY, AND FREE OF ANY DIRT/DEBRIS



STEP 17B - FRONT BEAM GUTTER ATTACHMENT

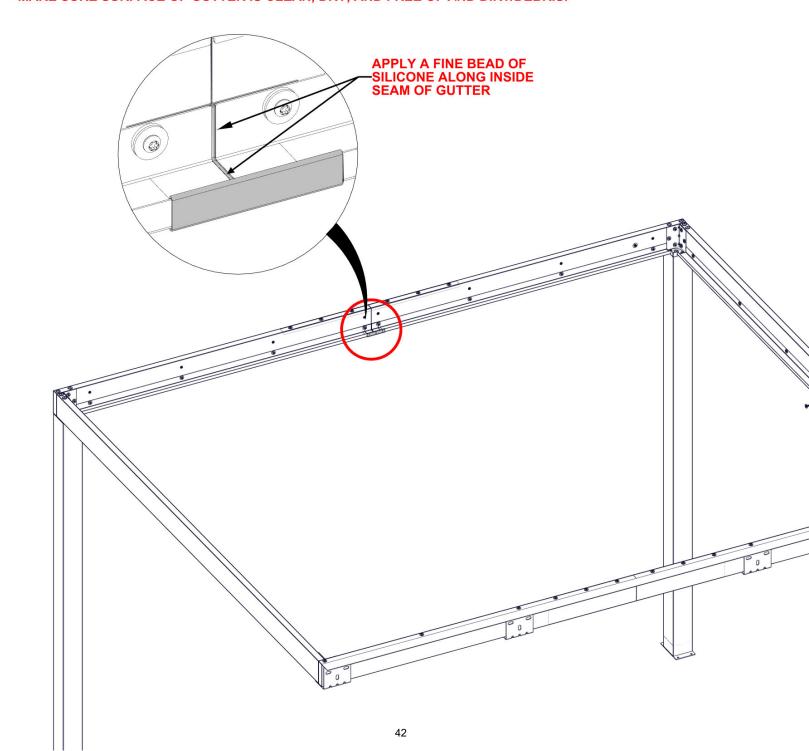


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STEP 17C - FRONT BEAM GUTTER ATTACHMENT



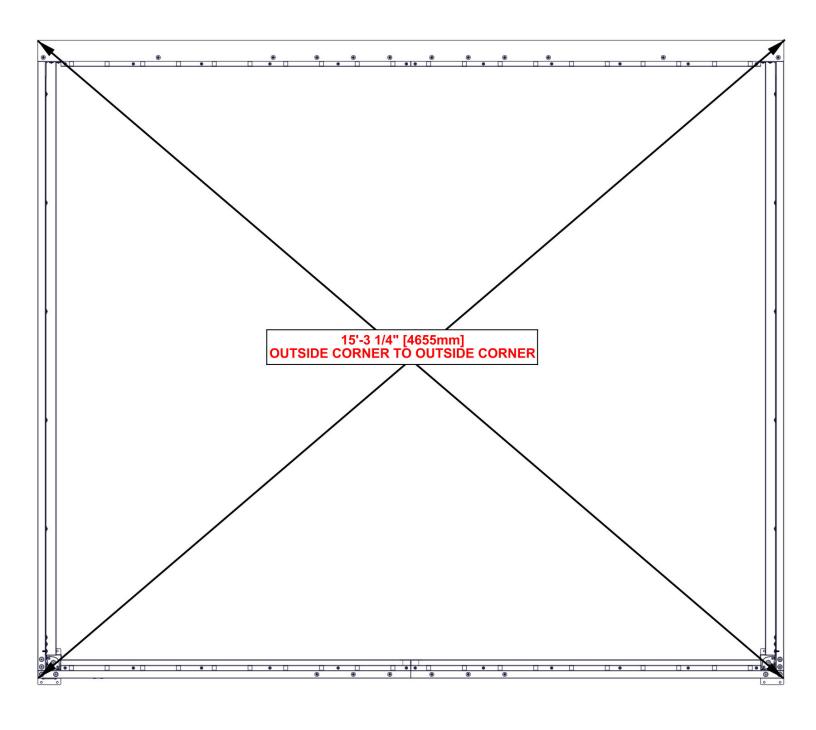
- APPLY A FINE BEAD OF SILICONE ALONG INSIDE SURFACE OF GUTTER WHERE TWO GUTTER PIECES MEET. SMOOTH SILICONE ALONG SEAM, WIPING EXCESS USING A RAG OR PAPER TOWEL.
- GLOVES ARE RECOMMENDED WHEN APPLYING SILICONE.
- MAKE SURE SURFACE OF GUTTER IS CLEAN, DRY, AND FREE OF AND DIRT/DEBRIS.



STEP 18 - SQUARE STRUCTURE

CRITICAL: SQUARE ASSEMBLY BEFORE PROCEEDING TO NEXT STEPS. ONCE SQUARE, MAKE SURE ALL HARDWARE HAS BEEN TIGHTENED FROM PREVIOUS STEPS.

MEASUREMENTS TAKEN FROM OUTSIDE CORNER TO OUTSIDE CORNER OF STRUCTURE

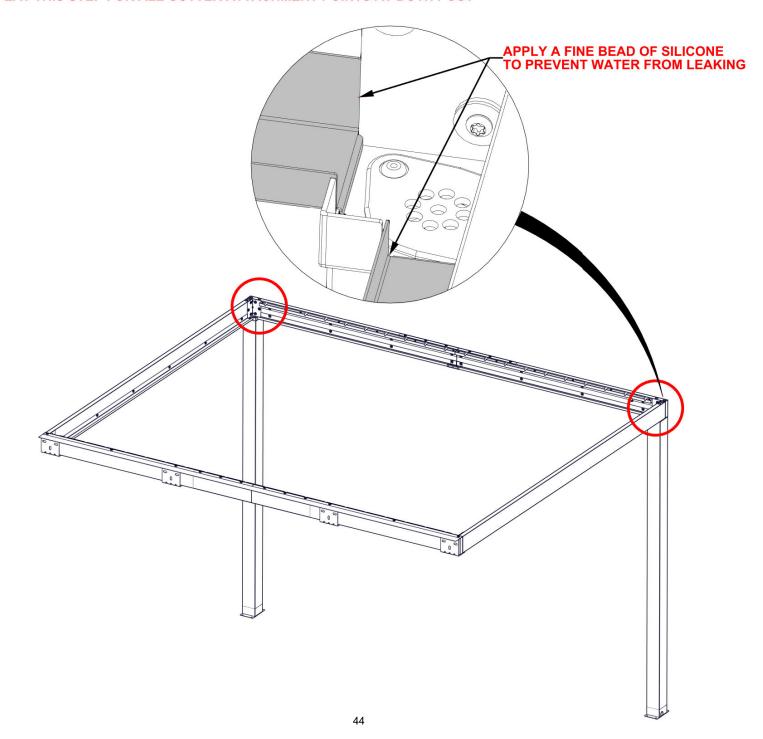


STEP 19 - GUTTER SEALANT

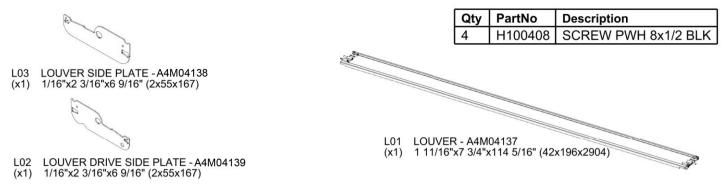


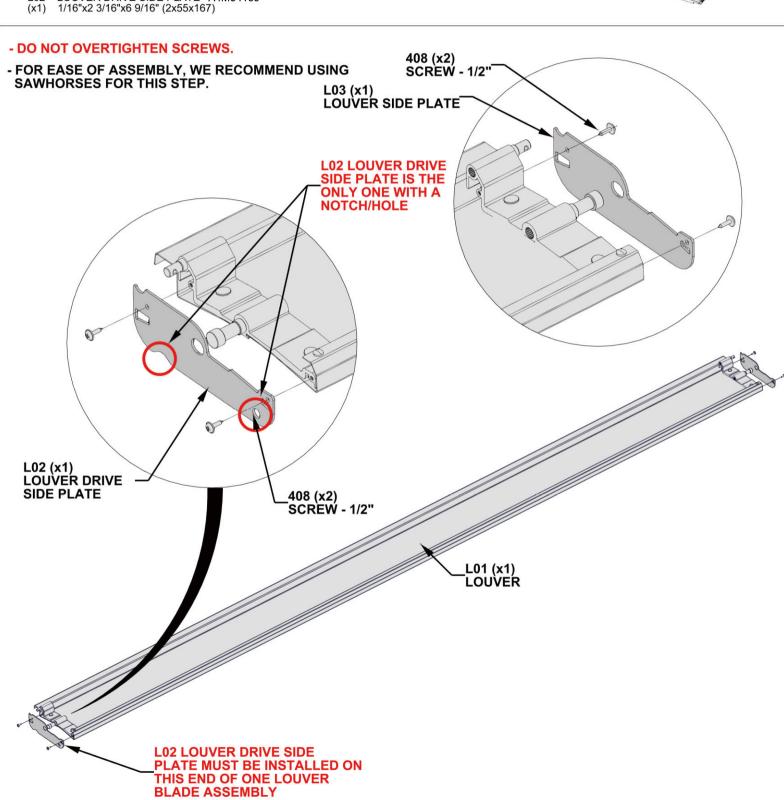
- APPLY A FINE BEAD OF SILICONE ALONG INSIDE SURFACE OF GUTTER WHERE TWO GUTTER PIECES MEET. SMOOTH SILICONE ALONG SEAM, WIPING EXCESS USING A RAG OR PAPER TOWEL.

- GLOVES ARE RECOMMENDED WHEN APPLYING SILICONE.
 MAKE SURE SURFACE OF GUTTER IS CLEAN, DRY, AND FREE OF AND DIRT/DEBRIS.
 REPEAT THIS STEP FOR ALL GUTTER ATTACHMENT POINTS AT BOTH POST

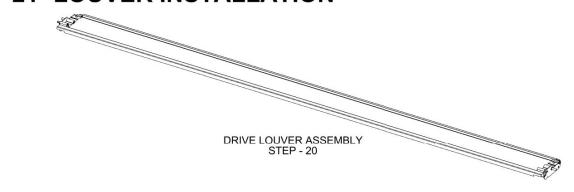


STEP 20 - DRIVE LOUVER INSTALLATION

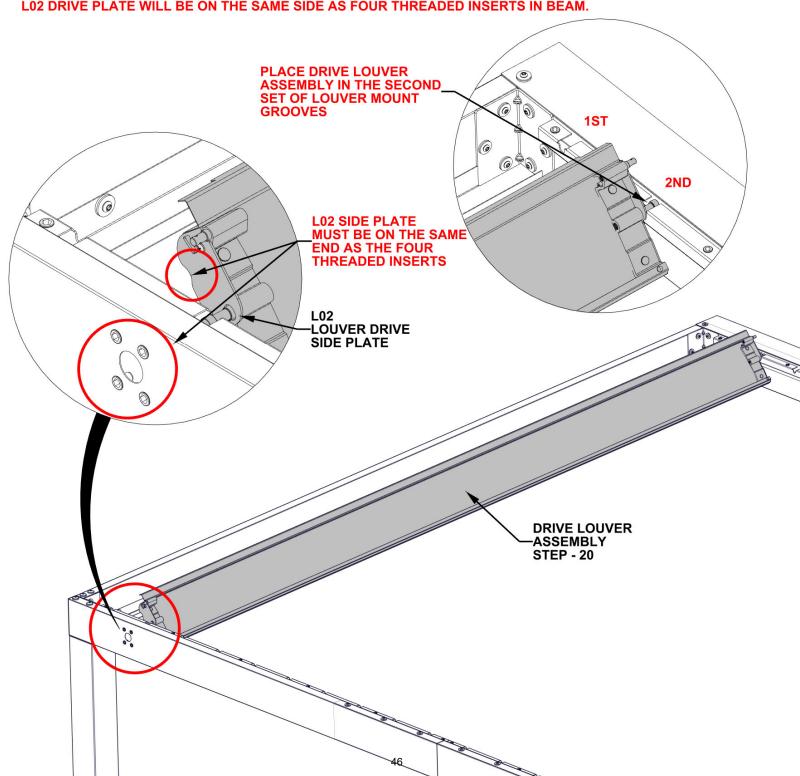




STEP 21- LOUVER INSTALLATION

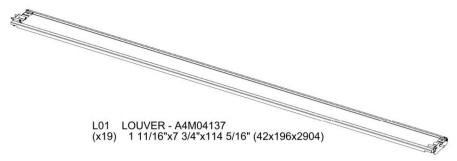


- ORIENTATION OF LOUVER WILL BE DETRMINED BY THE SIDE BEAM WITH FOUR THREADED INSERTS.
 PLACE DRIVE LOUVER FROM PREVIOUS STEP IN THE SECOND SET OF LOUVER MOUNT GROOVES.
 L02 DRIVE PLATE WILL BE ON THE SAME SIDE AS FOUR THREADED INSERTS IN BEAM.



STEP 22 - LOUVER ASSEMBLY

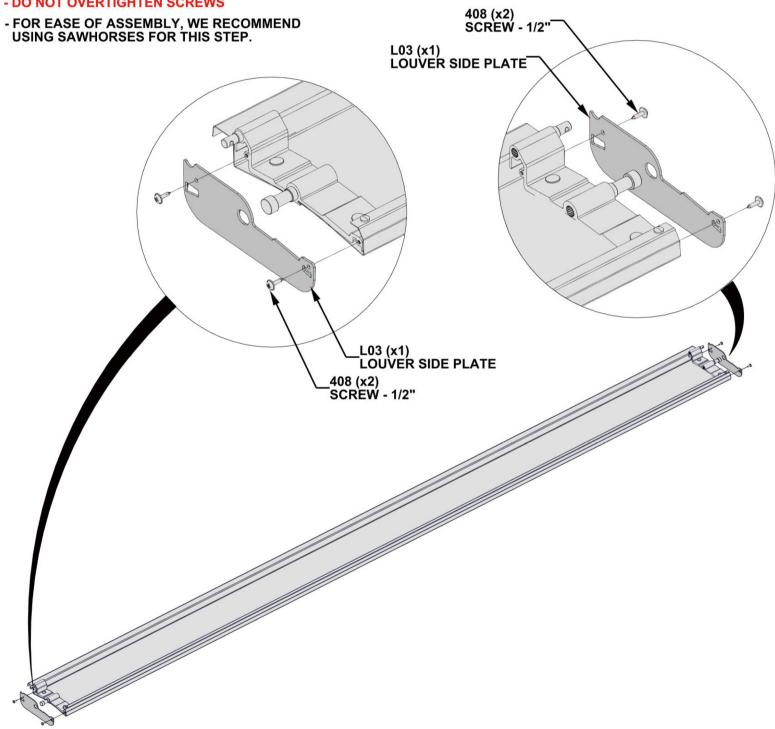
| | | Description |
|----|---------|---------------------|
| 76 | H100408 | SCREW PWH 8x1/2 BLK |



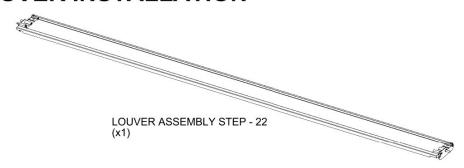


L03 LOUVER SIDE PLATE - A4M04138 (x38) 1/16"x2 3/16"x6 9/16" (2x55x167)

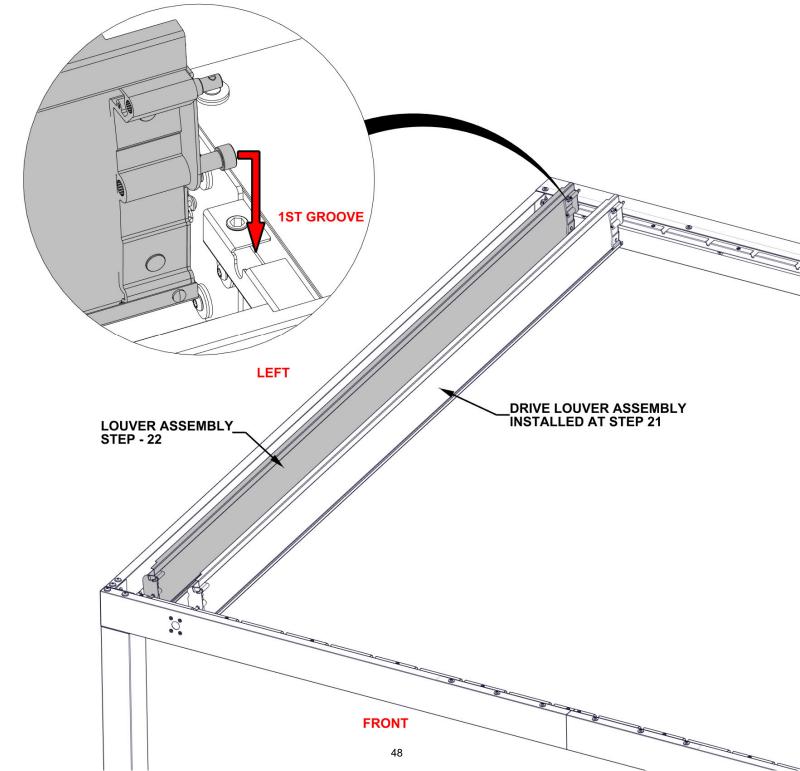
- REPEAT THIS STEP 19 TIMES.
- DO NOT OVERTIGHTEN SCREWS

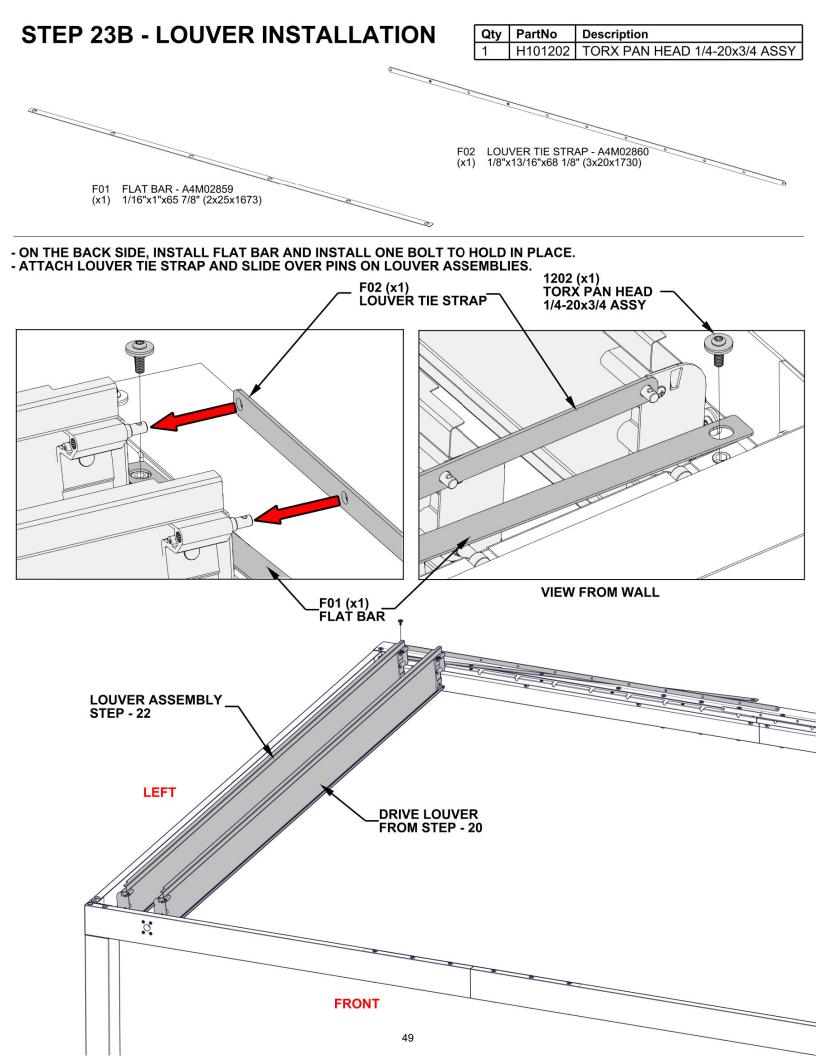


STEP 23A - LOUVER INSTALLATION



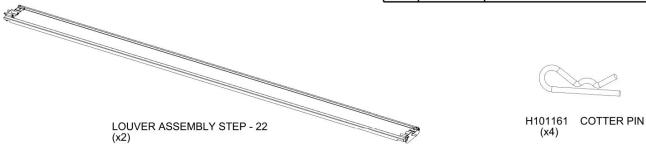
- STARTING AT LEFT, PLACE THE LOUVER ASSEMBLY FROM STEP 22 INTO THE FIRST SET OF LOUVER MOUNT GROOVES AT THE BACK OF THE UNIT.
 PLACE THE ASSEMBLY DOWN IN THE CORRESPONDING GROOVES IN THE FRONT.



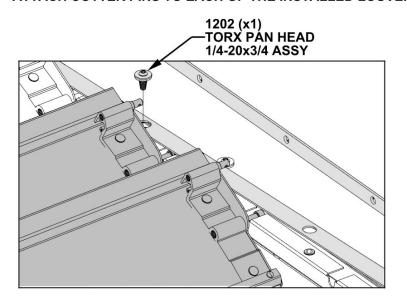


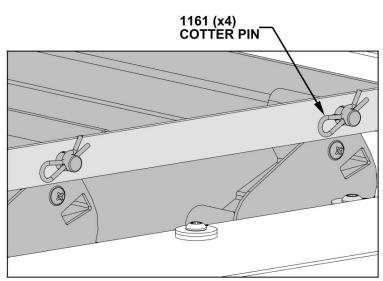
STEP 23C - LOUVER INSTALLATION

| Qty | PartNo | Description |
|-----|---------|-------------------------------|
| 1 | H101202 | TORX PAN HEAD 1/4-20x3/4 ASSY |

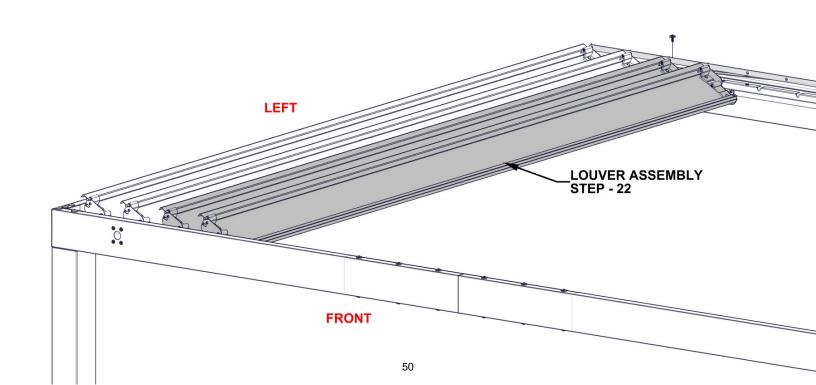


- ON THE BACK SIDE, LIFT TIE STRAP AND FLAT BAR UP ENOUGH TO SLIDE LOUVERS INTO GROOVES IN LOUVER MOUNTS.
- SLIDE TIE STRAP ONTO PINS ON LOUVER ASSEMBLIES.
- SET LOUVER ASSEMBLIES IN CORRESPONDING HOLES IN FRONT OF UNIT.
- MAKE SURE ALL LOUVER BLADE ASSEMBLIES ARE ORIENTED IN THE SAME DIRECTION.
- ATTACH COTTER PINS TO EACH OF THE INSTALLED LOUVERS BLADES ON THE BACK SIDE.



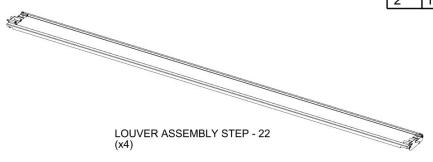


VIEW FROM WALL

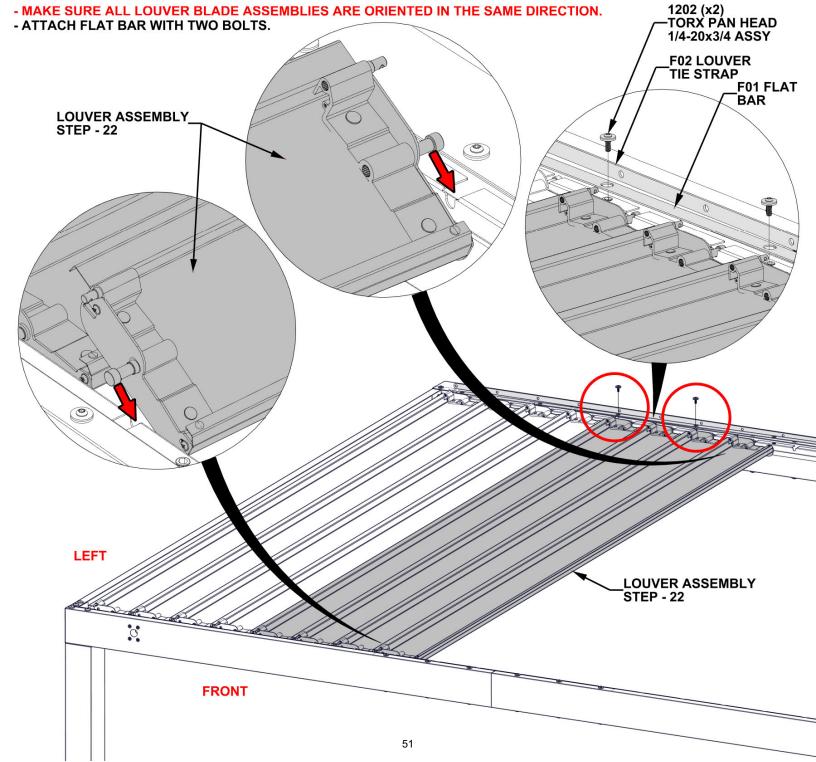


STEP 23D - LOUVER INSTALLATION

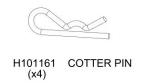
| Qty | PartNo | Description |
|-----|---------|-------------------------------|
| 2 | H101202 | TORX PAN HEAD 1/4-20x3/4 ASSY |



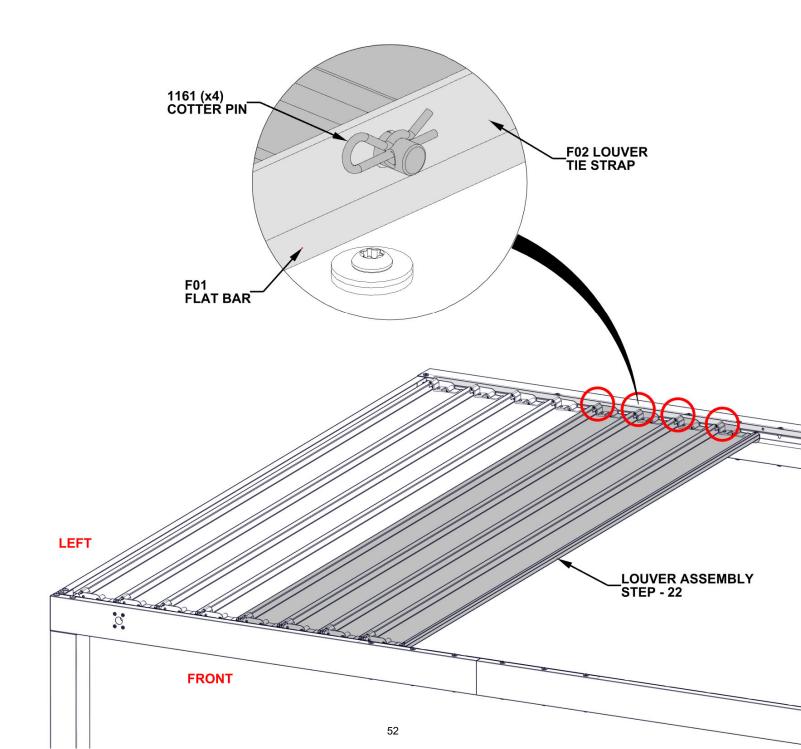
- ON THE BACK SIDE, LIFT TIE STRAP AND FLAT BAR UP ENOUGH TO SLIDE LOUVERS INTO GROOVES IN LOUVER MOUNTS.
- SLIDE TIE STRAP ONTO PINS ON LOUVER ASSEMBLIES.
- SET LOUVER ASSEMBLIES IN CORRESPONDING HOLES IN FRONT OF UNIT.



STEP 23E - LOUVER INSTALLATION

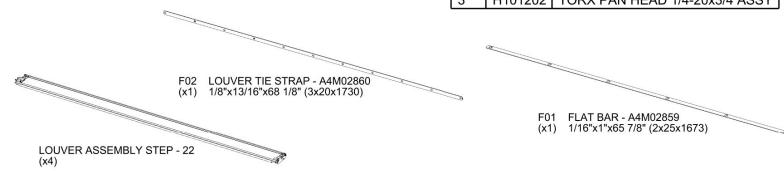


- MAKE SURE ALL LOUVER BLADE ASSEMBLIES ARE ORIENTED IN THE SAME DIRECTION.
- ATTACH COTTER PINS TO EACH OF THE INSTALLED LOUVERS BLADES ON THE BACK SIDE.

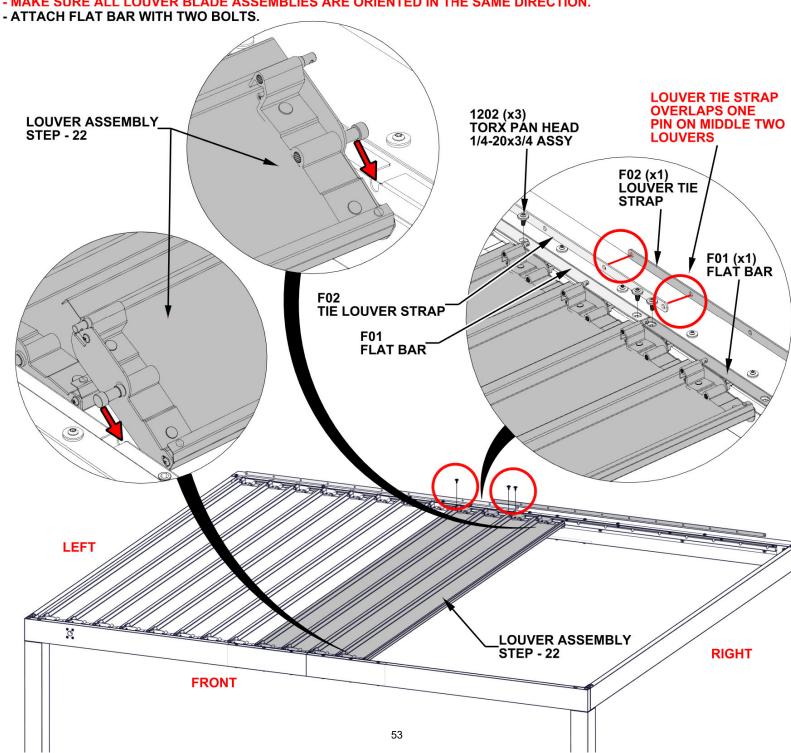


STEP 23F - LOUVER INSTALLATION

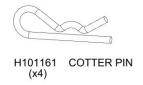
Qty **PartNo** Description TORX PAN HEAD 1/4-20x3/4 ASSY 3 H101202



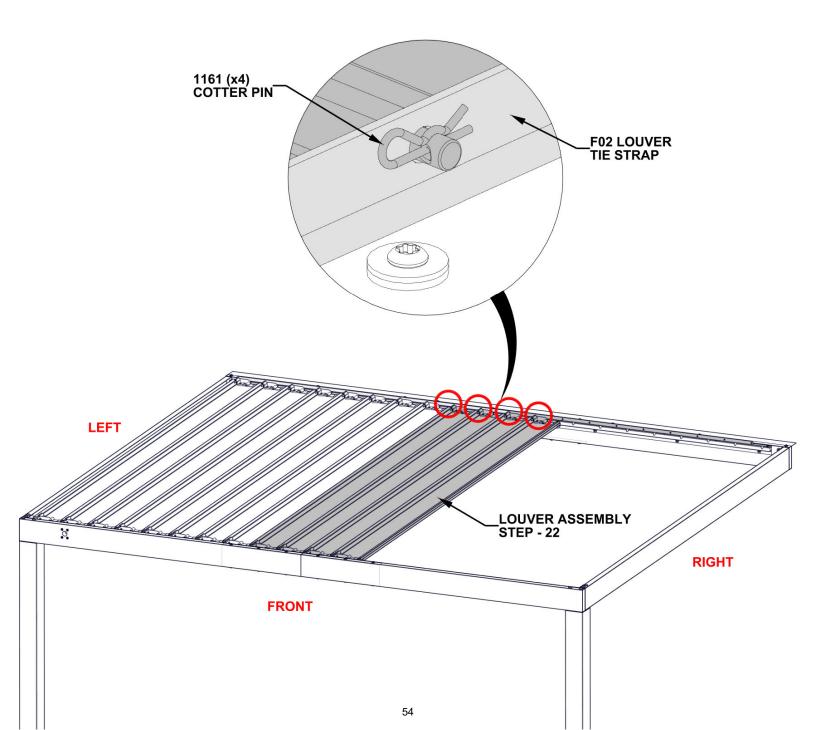
- ON THE BACK SIDE, LIFT TIE STRAP AND FLAT BAR UP ENOUGH TO SLIDE LOUVERS INTO GROOVES IN LOUVER MOUNTS.
- SLIDE TIE STRAP ONTO PINS ON LOUVER ASSEMBLIES.
- SET LOUVER ASSEMBLIES IN CORRESPONDING HOLES IN FRONT OF UNIT.
- MAKE SURE ALL LOUVER BLADE ASSEMBLIES ARE ORIENTED IN THE SAME DIRECTION.



STEP 23G - LOUVER INSTALLATION

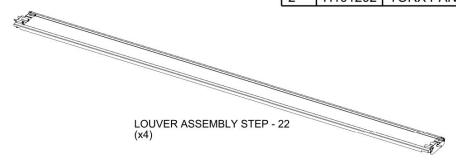


- MAKE SURE ALL LOUVER BLADE ASSEMBLIES ARE ORIENTED IN THE SAME DIRECTION.
- ATTACH COTTER PINS TO EACH OF THE INSTALLED LOUVERS BLADES ON THE BACK SIDE.



STEP 23H - LOUVER INSTALLATION

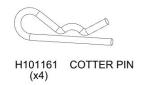
| Qt | / PartN | lo Desc | ription |
|----|---------|---------|----------------------------|
| 2 | H101 | 202 TOR | X PAN HEAD 1/4-20x3/4 ASSY |



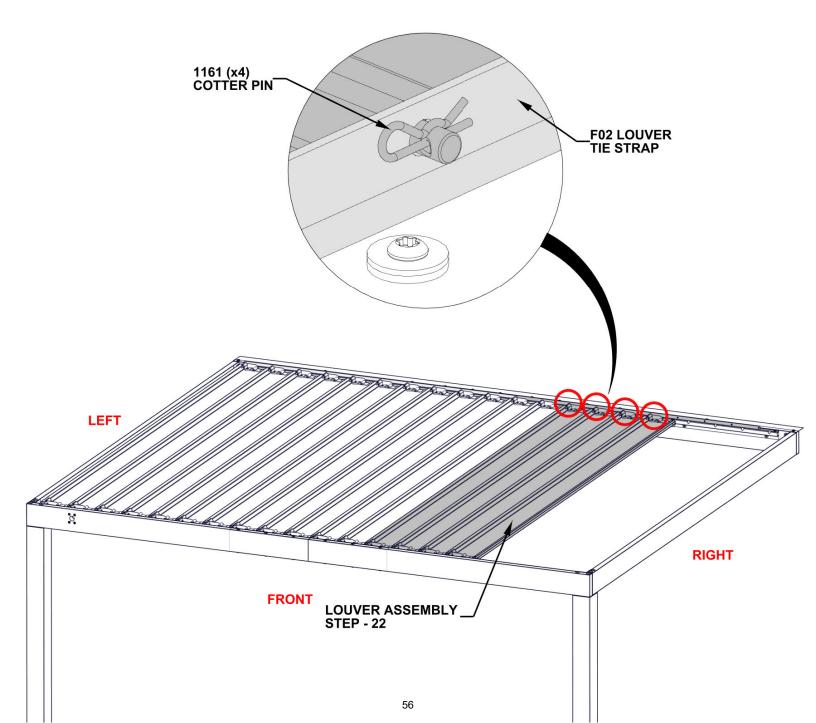
- ON THE BACK SIDE, LIFT TIE STRAP AND FLAT BAR UP ENOUGH TO SLIDE LOUVERS INTO GROOVES IN LOUVER MOUNTS.
- SLIDE TIE STRAP ONTO PINS ON LOUVER ASSEMBLIES.
- SET LOUVER ASSEMBLIES IN CORRESPONDING HOLES IN FRONT OF UNIT.
- MAKE SURE ALL LOUVER BLADE ASSEMBLIES ARE ORIENTED IN THE SAME DIRECTION. - ATTACH FLAT BAR WITH TWO BOLTS. 1202 (x2) TORX PAN HEAD 1/4-20x3/4 ASSY F02 LOUVER TIE STRAP F01 FLAT LOUVER ASSEMBLY BAR **STEP - 22 LEFT** 0 **RIGHT FRONT** LOUVER ASSEMBLY **STEP - 22**

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STEP 23I - LOUVER INSTALLATION

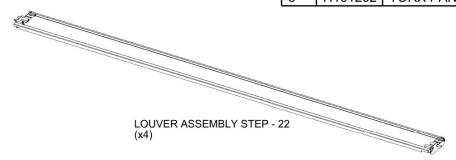


- MAKE SURE ALL LOUVER BLADE ASSEMBLIES ARE ORIENTED IN THE SAME DIRECTION.
- ATTACH COTTER PINS TO EACH OF THE INSTALLED LOUVERS BLADES ON THE BACK SIDE.

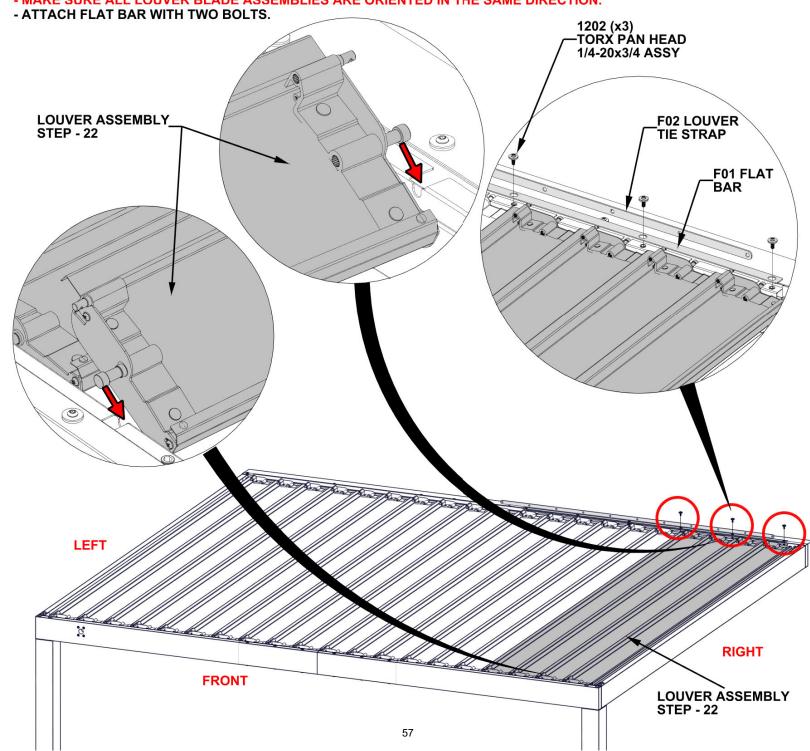


STEP 23J - LOUVER INSTALLATION

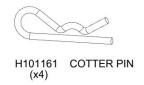
| Qty | PartNo | Description |
|-----|---------|-------------------------------|
| 3 | H101202 | TORX PAN HEAD 1/4-20x3/4 ASSY |



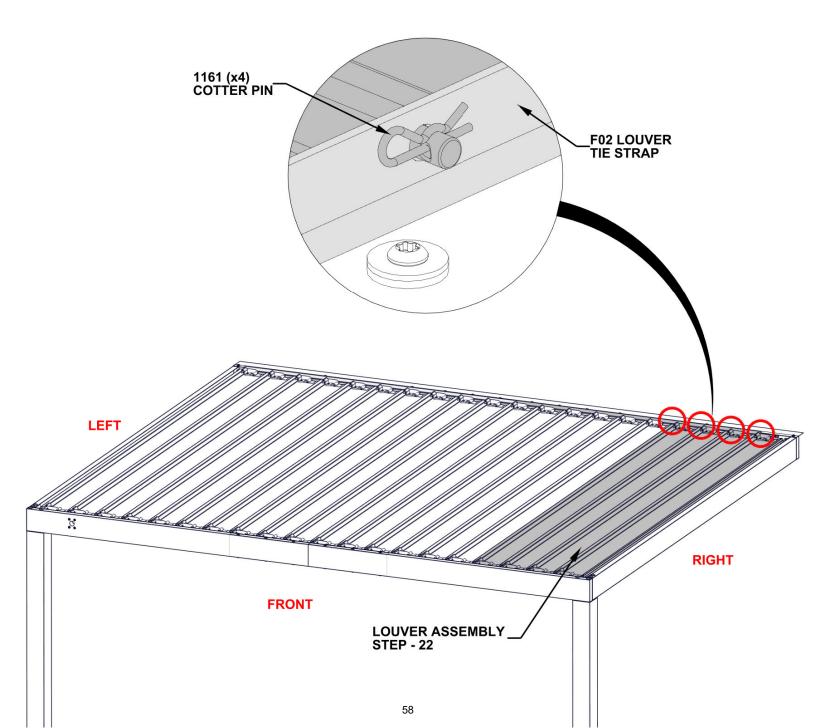
- ON THE BACK SIDE, LIFT TIE STRAP AND FLAT BAR UP ENOUGH TO SLIDE LOUVERS INTO GROOVES IN LOUVER MOUNTS.
- SLIDE TIE STRAP ONTO PINS ON LOUVER ASSEMBLIES.
- SET LOUVER ASSEMBLIES IN CORRESPONDING HOLES IN FRONT OF UNIT.
- MAKE SURE ALL LOUVER BLADE ASSEMBLIES ARE ORIENTED IN THE SAME DIRECTION.



STEP 23K - LOUVER INSTALLATION

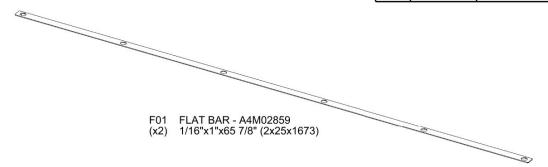


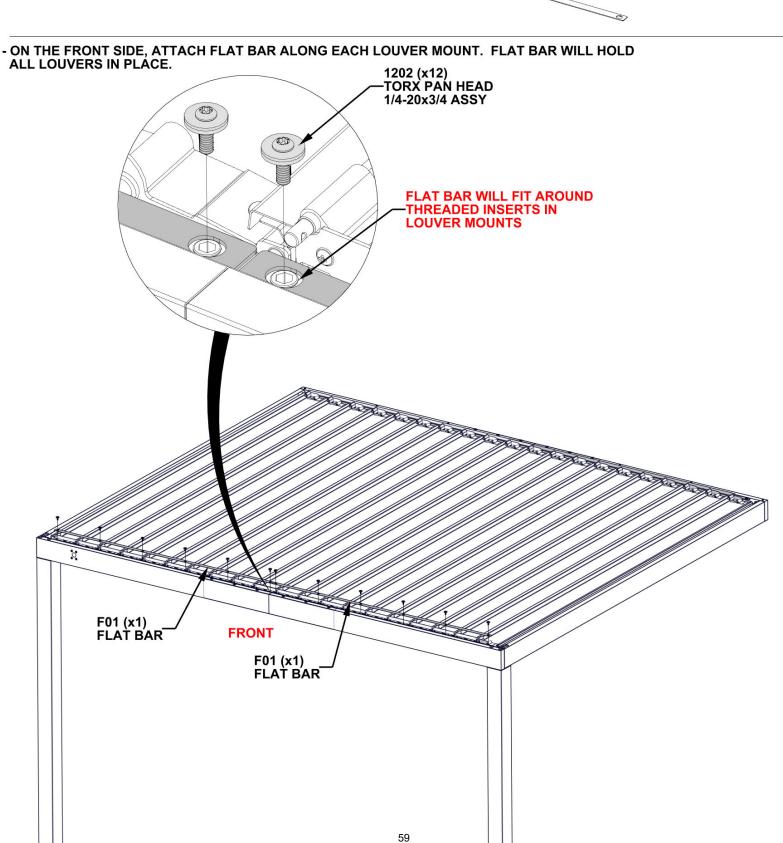
- MAKE SURE ALL LOUVER BLADE ASSEMBLIES ARE ORIENTED IN THE SAME DIRECTION.
- ATTACH COTTER PINS TO EACH OF THE INSTALLED LOUVERS BLADES ON THE BACK SIDE.



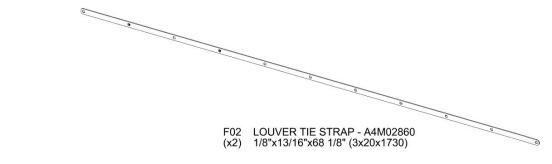
STEP 24 - LOUVER INSTALLATION

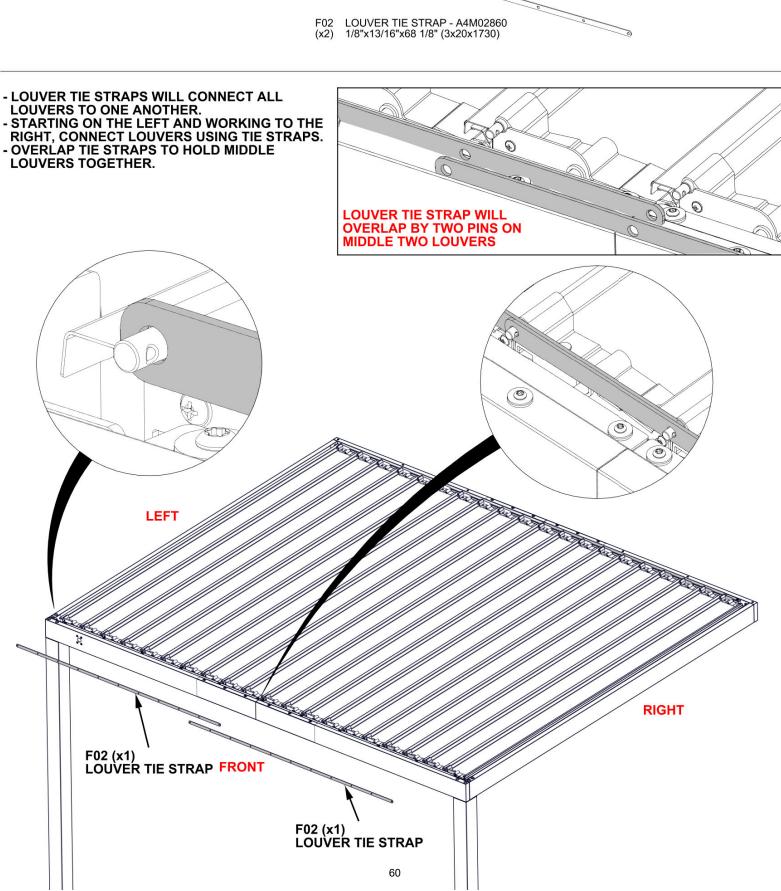
QtyPartNoDescription12H101202TORX PAN HEAD 1/4-20x3/4 ASSY



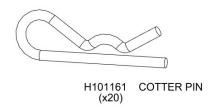


STEP 25A - LOUVER INSTALLATION

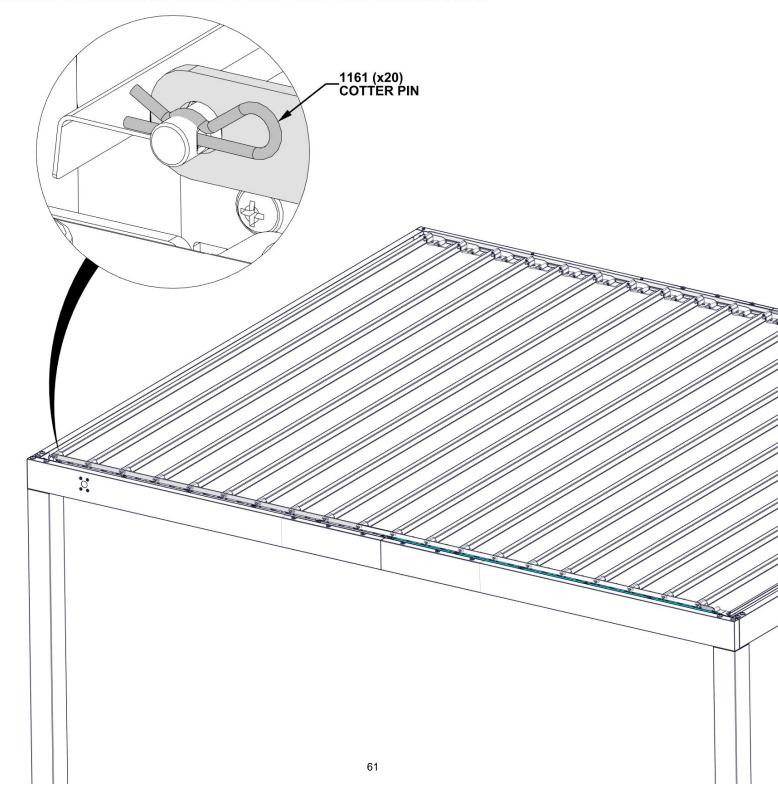




STEP 25B - LOUVER INSTALLATION

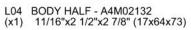


- INSTALL COTTER PINS ON EACH LOUVER TO HOLD TIE STRAP IN PLACE.
 CONFIRM ALL HARDWARE HAS BEEN TIGHTENED FROM PREVIOUS STEPS.



STEP 26 - LOUVER MECHANISM

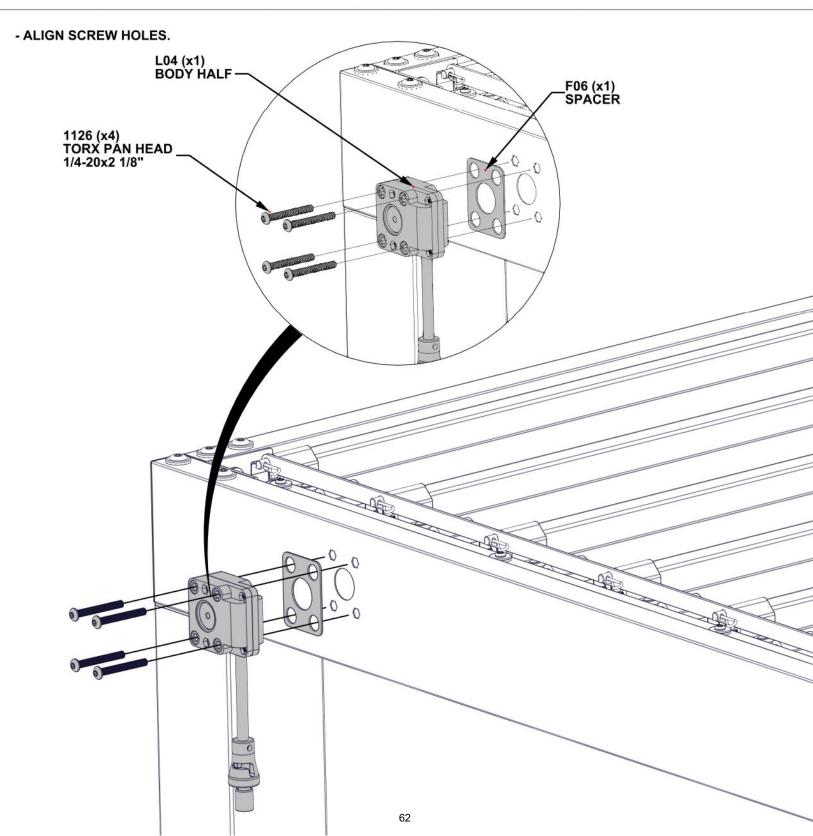






| F06 | SPACER - A4M02227 | | |
|------|----------------------------------|--|--|
| (x1) | 1/16"x2 3/16"x2 3/4" (1.5x56x70) | | |

| Qty | PartNo | Description |
|-----|---------|---------------------------------|
| 4 | H101126 | TORX PAN HEAD 1/4-20x2 1/8" BLK |



STEP 27 - LOUVER MECHANISM



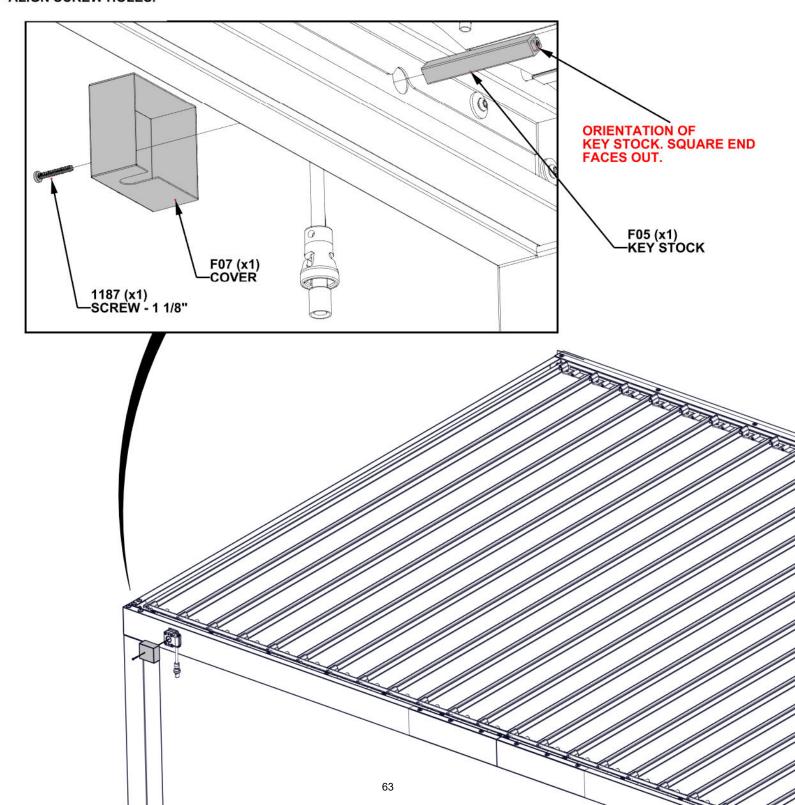
F07 COVER - A4M02228 (x1) 1 9/16"x2 7/8"x3 1/4" (39.5x73x82)



F05 KEY STOCK - A4M02226 (x1) 1/2"x1/2"x3 3/4" (13.0x13.0x95)

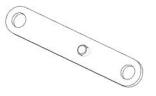
| Qty PartNo | | Description |
|------------|---------|-------------------------|
| 1 | H101187 | BOLT PPH 8-32x1 1/8 BLK |

- ALIGN SCREW HOLES.



STEP 28A - LOUVER MECHANISM

| Qty | PartNo | Description |
|-----|---------|---|
| 2 | H100474 | WASHER FLAT 9x18 BLK |
| 1 | H100653 | NUT LOCK 1/4 BLK |
| 1 | H101189 | LOW PROFILE SHOULDER BOLT 1/4-20x3/8" BLK |

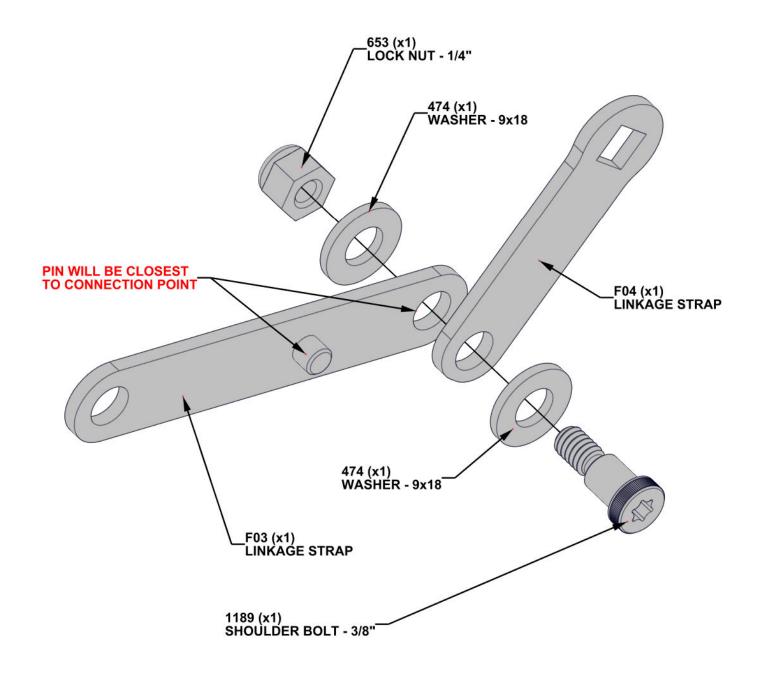


F03 LINKAGE STRAP - A4M02229 (x1) 1/8"x11/16"x3 13/16" (3x17x97)

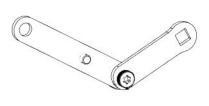


F04 LINKAGE STRAP - A4M02225 (x1) 1/8"x13/16"x2 5/8" (3x20x66)

- LINKAGES MUST BE ORIENTED AS SHOWN BELOW.
- DO NOT OVERTIGHTEN HARDWARE.
- LINKAGES SHOULD BE ABLE TO ROTATE FREELY.



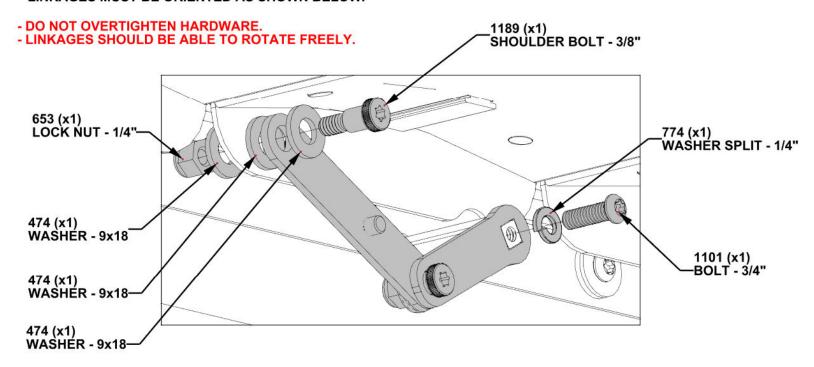
STEP 28B - LOUVER MECHANISM

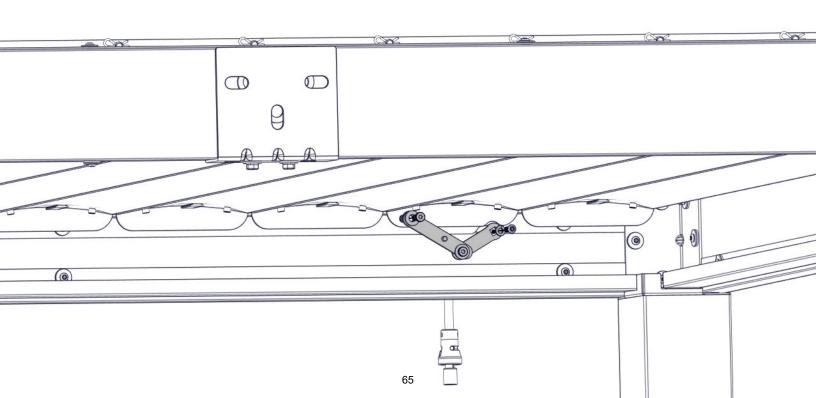


LINKAGE ASSEMBLY STEP - 28A

| Qty | PartNo | Description |
|-----|---------|---|
| 1 | H100774 | WASHER SPLIT 1/4 BLK |
| 3 | H100474 | WASHER FLAT - 9x18 BLK |
| 1 | H101101 | TORX PAN HEAD 1/4-20x3/4"BLK |
| 1 | H100653 | NUT LOCK 1/4 BLK |
| 1 | H101189 | LOW PROFILE SHOULDER BOLT 1/4-20x3/8" BLK |

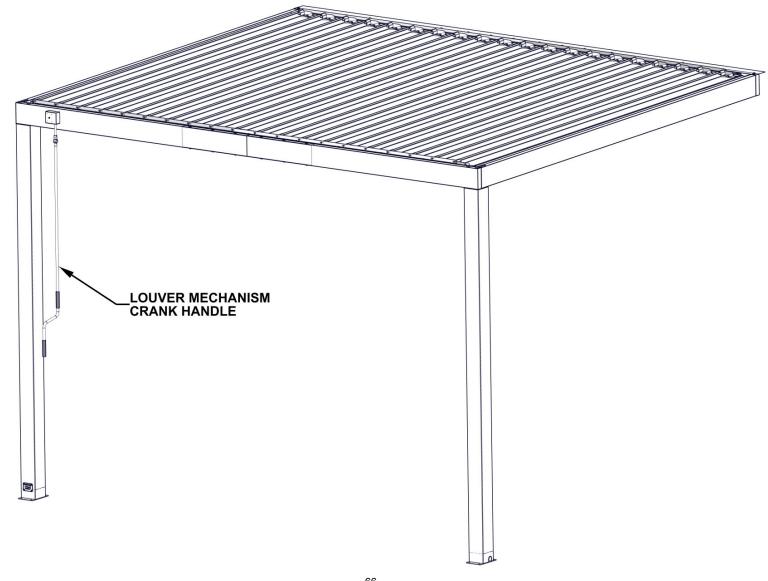
- LINKAGES MUST BE ORIENTED AS SHOWN BELOW.





STEP 28C - LOUVER MECHANISM





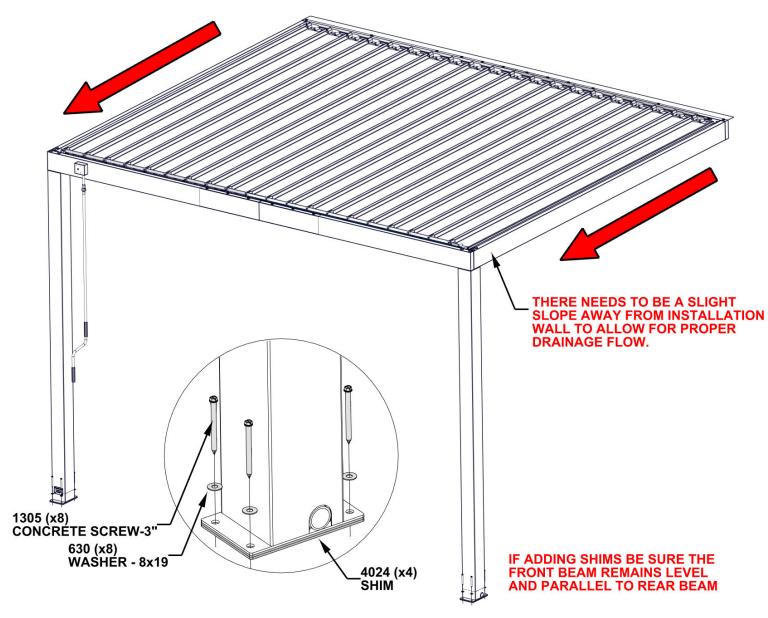
STEP 29 - PERGOLA ANCHORING

| ĺ | Qty | PartNo | Description |
|---|-----|---------|-----------------------------|
| | 8 | H100630 | WASHER FLAT 8x19 BLK |
| ſ | 8 | H101305 | CONCRETE ANCHOR 1/4"x3" BLK |



NOTES:

- MANUFACTURER RECOMMENDS INSTALLATION ON CONCRETE SURFACE OR CONCRETE POST PADS. SEE BELOW.
- FOR INSTALLATION ON WOOD DECKS, YOU MUST ENSURE THERE IS AMPLE STRUCTURAL SUPPORT UNDER DECK.
- PRE-DRILL HOLES FOR CONCRETE ANCHORS USING A 3/16" [5mm] CONCRETE DRILL BIT.
- REPEAT THIS STEP FOR TWO POSTS.
- THERE NEEDS TO BE A SLIGHT SLOPE AWAY FROM INSTALLATION WALL TO ALLOW FOR PROPER DRAINAGE FLOW.
- TIGHTEN ALL BOLTS.



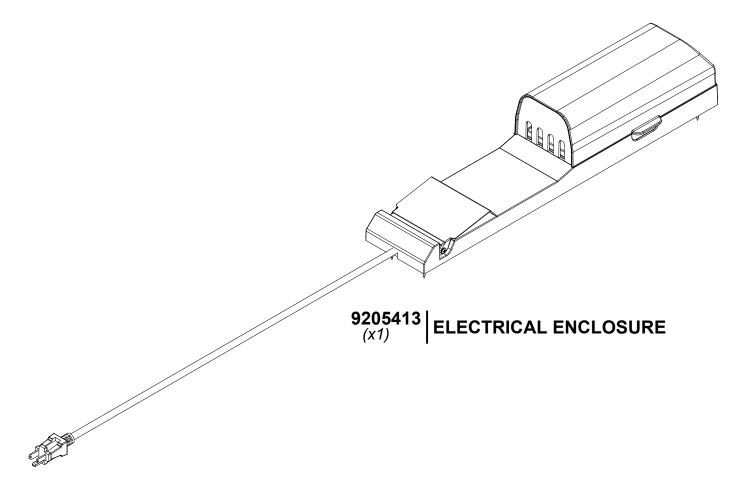
SHIMS ARE TO BE USED ONLY TO LEVEL PERGOLA DUE TO UNEVEN AND UNLEVEL AREAS ON FOUNDATION.

STEP 31 - PREVENTATIVE MAINTENANCE

NOTE - IT IS IMPORTANT TO TAKE CAUTION WHEN HIGH WINDS OR WINTER WEATHER SUCH AS ICE OR SNOW IS EXPECTED. IF INCLEMENT WEATHER ARISES, IT IS RECOMMENDED TO TURN LOUVERS INTO THE FULLY OPEN (UPRIGHT) POSITION. THIS WILL PREVENT DAMAGE TO THE STRUCTURE AND DECREASE THE CHANCES OF STRUCTURE OR LOUVER DAMAGE.



PowerPort™



FOR POWERPORT INSTALLATION REFER TO ASSEMBLY INSTRUCTIONS THAT COME PACKAGED WITH THE POWERPORT KIT. INSTALL ON ANY EXTERIOR POST THAT IS DESIRED. FOLLOW DIRECTIONS FOR PROPER INSTALLATION.