



Manufactured by:  
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# 20x10 EVANSTON STEEL WALL-MOUNTED LOUVERED PERGOLA

MODEL #: 2407114



## WARNING

Cancer and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



Please visit [www.backyarddiscovery.com](http://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](http://www.backyarddiscovery.com)



EASY STEP-BY-STEP

3D INTERACTIVE INSTRUCTIONS  
DOWNLOAD THE FREE APP



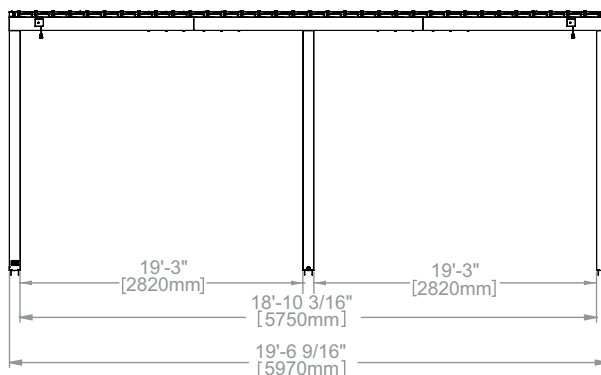
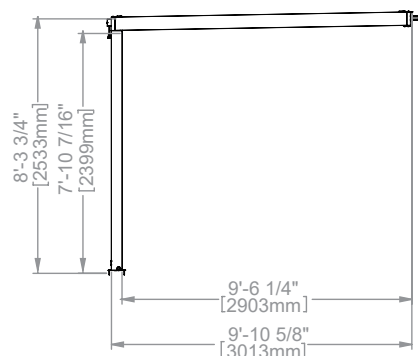
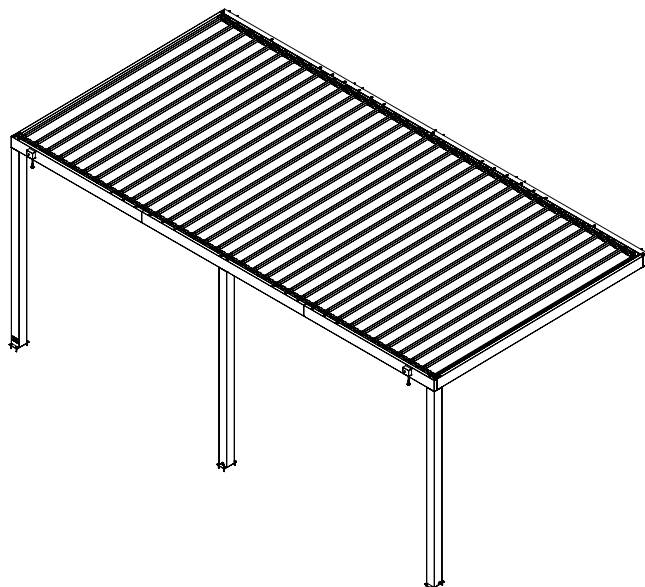
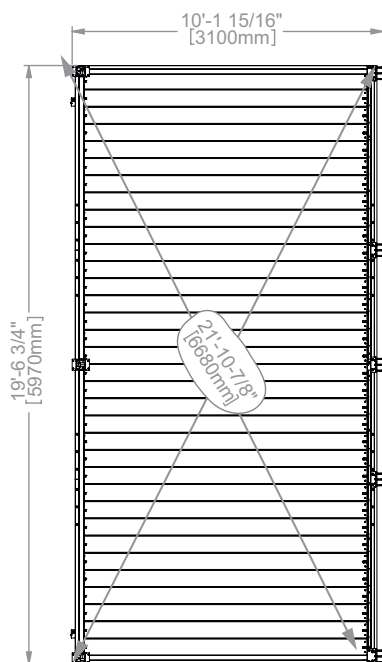
# OWNER'S MANUAL - BASIC SETUP DIMENSIONS & ASSEMBLY NOTES

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.**

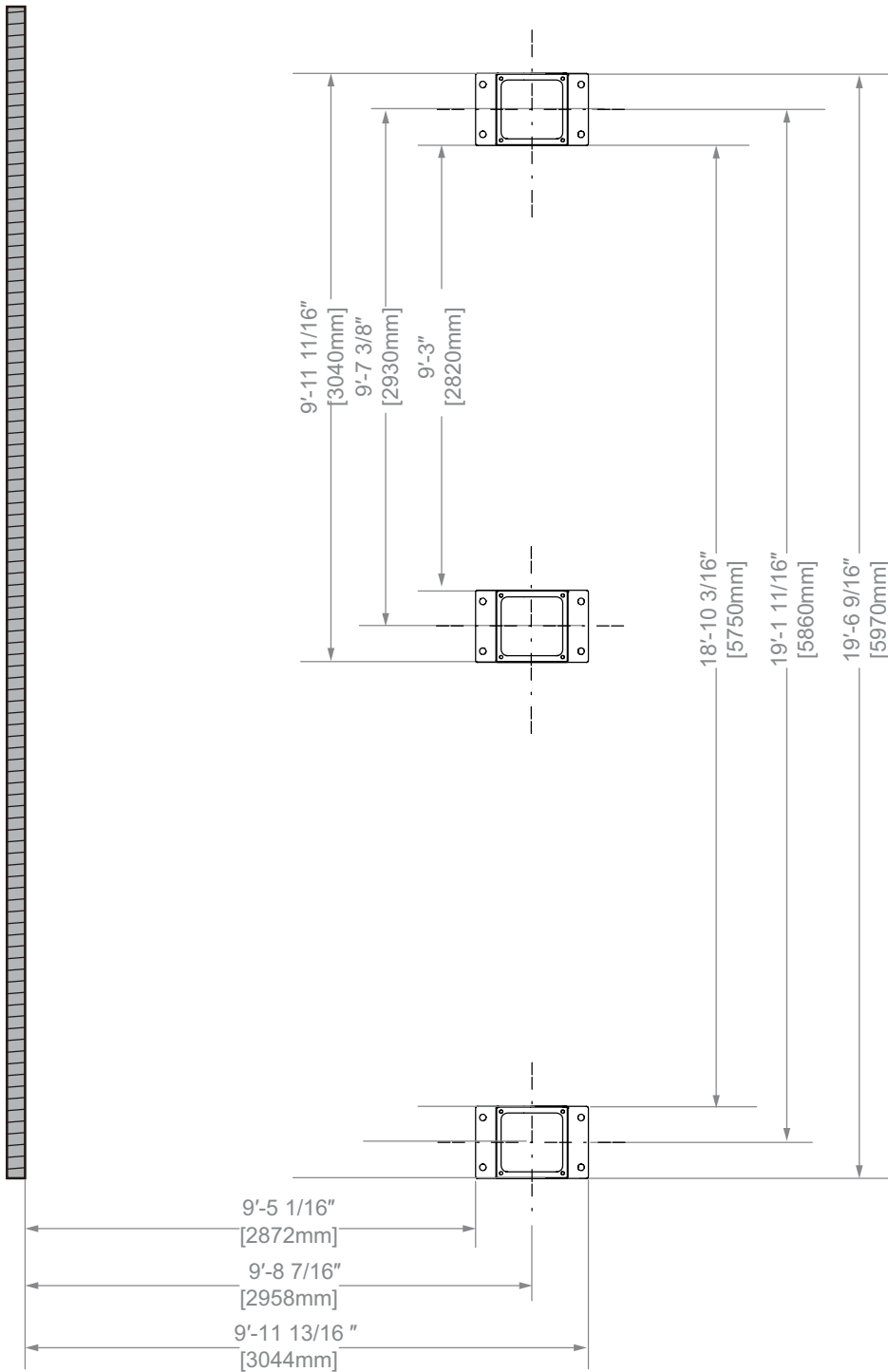
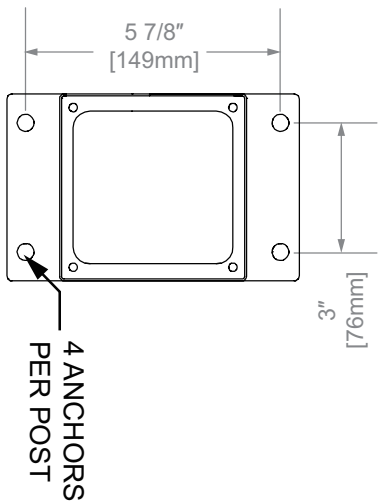
- The hardware to attach the post mounts to the structure is included.
  - The hardware to mount the structure permanently to a concrete surface is included.
  - The hardware to attach the structure permanently to a house is included.
  - The hardware to mount the structure permanently to a wood deck 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

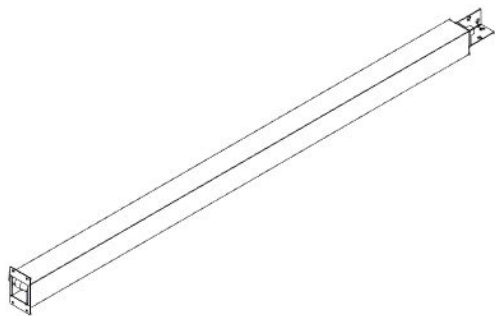
HOUSE

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

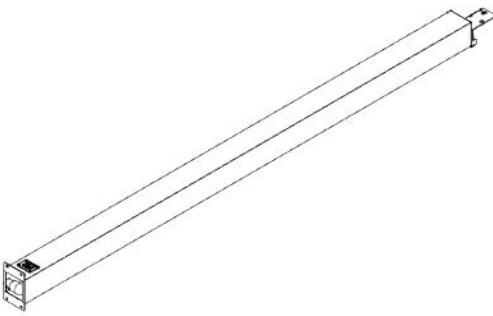


# OWNER'S MANUAL - PARTS IDENTIFICATION

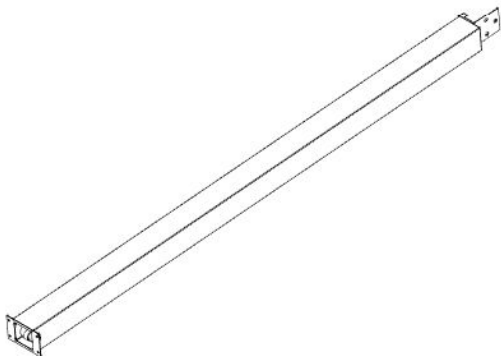
## METAL COMPONENTS (NOT TO SCALE)



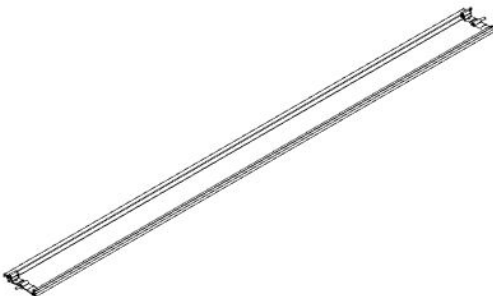
P02 POST - A4M01984  
(x1) 4 5/16"x6 3/4"x99 1/2" (110x172x2527)



P03 POST - A4M02131  
(x1) 4 5/16"x6 3/4"x99 1/2" (110x172x2527)



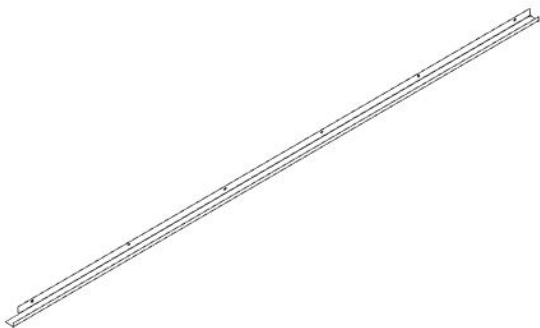
P04 POST - A4M02587  
(x1) 4 5/16"x6 3/4"x99 1/2" (110x172x2527)



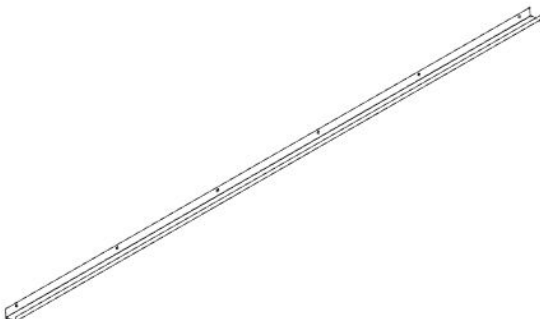
L01 LOUVER - A4M04137  
(x34) 1 11/16"x7 5/8"x114 5/16" (42x194x2904)



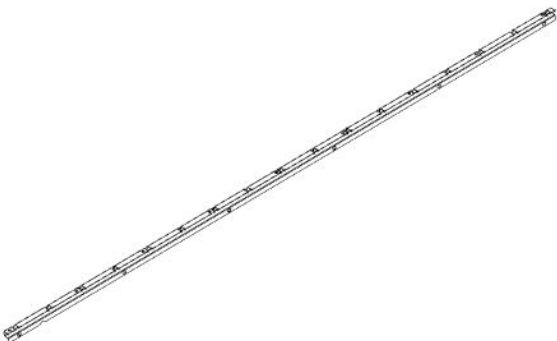
G01 GUTTER - A4M03478  
(x1) 1 9/16"x1 15/16"x1117 5/16" (40x50x2838)



G02 GUTTER - A4M02583  
(x1) 1 9/16"x1 15/16"x111" (40x50x2820)



G06 GUTTER - A4M03481  
(x2) 1 9/16"x1 15/16"x111 3/4" (40x50x2839)

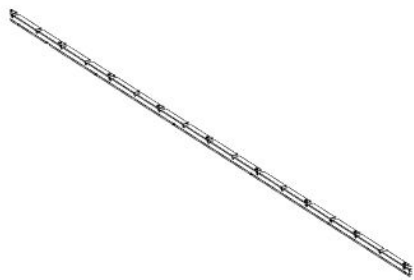


M02 LOUVER MOUNT - A4M02594  
(x2) 1"x1 15/16"x110 3/4" (25x49x2813)



# OWNER'S MANUAL - PARTS IDENTIFICATION

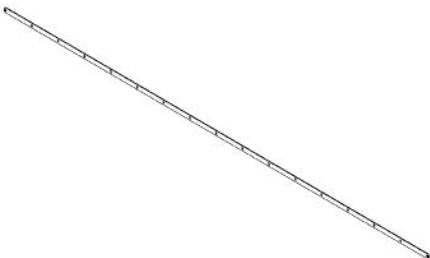
METAL COMPONENTS (NOT TO SCALE)



M04 LOUVER MOUNT - A4M02596  
(x2) 1"x1 15/16"x110 3/4" (25x49x2813)



F01 FLAT BAR - A4M02585  
(x4) 1/16"x1"x110 3/4" (2x25x2813)



F02 LOUVER TIE STRAP - A4M04059  
(x4) 1/8"x13/16"x108 3/8" (3x20x2752)



J1 SPLICE BRACKET - A4M02230  
(x2) 1 5/16"x5 3/16"x39 3/8" (33.2x131.2x1000)



J2 SPLICE BRACKET - A4M03498  
(x2) 1 5/16"x5 3/16"x39 3/8" (33.2x131.2x1000)



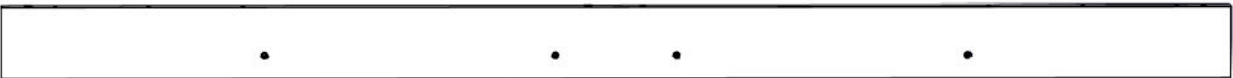
K1 WEATHER STRIP 20FT - A6P01106  
(x1) 1/16"x3 15/16"x225 3/8" (1.6x100x5724)



B01 BEAM - A4M03480  
(x1) 1 7/16"x5 1/4"x114 7/8" (36x134x2918)



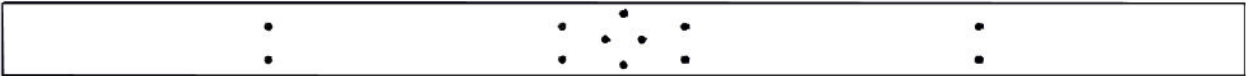
B02 LEFT BEAM ASSEMBLY - A4M03479  
(x1) 1 7/16"x5 1/4"x114 7/8" (36x134x2918)



B03 BEAM - A4M03496  
(x1) 1 7/16"x5 1/4"x89 7/8" (36x134x2283)



B04 BEAM - A4M02590  
(x1) 1 7/16"x5 1/4"x72 7/16" (36x134x1839)



B05 BEAM - A4M02591  
(x1) 1 7/16"x5 1/4"x89 7/8" (36x134x2283)



B06 BEAM - A4M02592  
(x1) 1 7/16"x5 1/4"x72 7/16" (36x134x1839)



B07 BEAM - A4M03497  
(x1) 1 7/16"x5 1/4"x72 7/16" (36x134x1839)



B08 BEAM - A4M03495  
(x1) 1 7/16"x5 1/4"x72 7/16" (36x134x1839)

# OWNER'S MANUAL - PARTS IDENTIFICATION

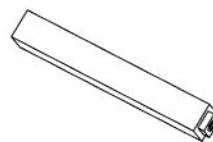
## METAL COMPONENTS (NOT TO SCALE)



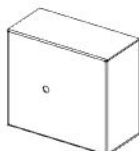
L02 LOUVER DRIVE SIDE PLATE - A4M04139  
(x2) 1/16"x2 3/16"x6 9/16" (2x55x167)



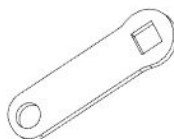
L03 LOUVER SIDE PLATE - A4M04138  
(x66) 1/16"x2 3/16"x6 9/16" (2x55x167)



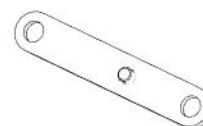
F05 KEY STOCK - A4M02226  
(x2) 1/2"x1/2"x3 3/4" (13x13x95)



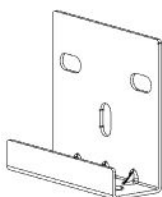
F07 COVER - A4M02228  
(x2) 1 9/16"x2 7/8"x3 1/4" (39.5x73x82)



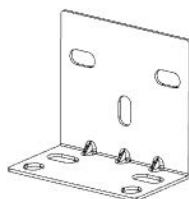
F04 LINKAGE STRAP - A4M02225  
(x2) 1/8"x13/16"x2 5/8" (3x20x66)



F03 LINKAGE STRAP - A4M02229  
(x2) 1/2"x11/16"x3 13/16" (13x17x97)



K03 CENTER WALL BRACKET - A4M03482  
(x3) 2 11/16"x5 1/8"x5 15/16" (69x131x152)



K04 CORNER WALL BRACKET - A4M03483  
(x2) 3 7/8"x5 1/8"x5 15/16" (99x131x152)



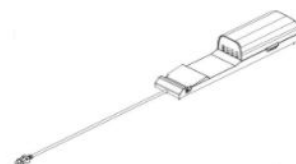
F06 SPACER - A4M02227  
(x2) 1/16"x2 3/16"x2 3/4" (1.5x56x70)



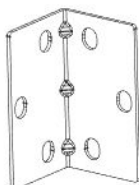
H01 CRANK HANDLE - A4M04022  
(x2)



L04 BODY HALF - A4M02132  
(x2) 11/16"x2 1/2"x2 7/8" (17x64x73)



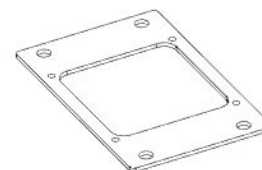
9205413 ELECTRICAL  
(x1) ENCLOSURE



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



A6P00796 SILICONE  
(x1)



SHIM - A4M04024  
(x6) 1/8"x4 3/8"x6 3/4" (3x110x172)



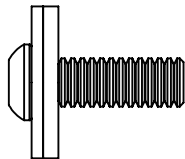
T01 BRACKET TEMPLATE - W4L20791  
(x2) 1/8"x5 1/2"x84 5/8" (3x140x2149)



T02 BRACKET TEMPLATE - W4L20792  
(x1) 1/8"x5 1/2"x67 5/16" (3x140x1710)

# OWNER'S MANUAL - PARTS IDENTIFICATION

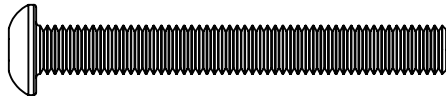
## HARDWARE COMPONENTS



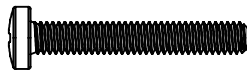
**H101202 | TORX PAN HEAD 1/4-20x3/4 ASSY**  
(x165) | 1/4-20x3/4 ASSY



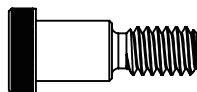
**H101101 | TORX PAN HEAD**  
(x2) | 1/4-20x3/4" BLK



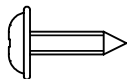
**H101126 | TORX PAN HEAD**  
(x8) | 1/4-20x2 1/8" BLK



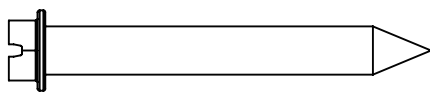
**H101187 | BOLT PPH**  
(x2) | 8-32x1 1/8" BLK



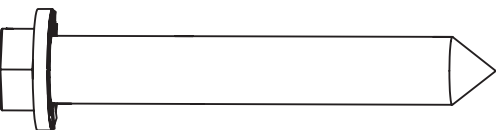
**H101189 | LOW PROFILE SHOULDER BOLT**  
(x4) | 1/4-20x3/8" BLK



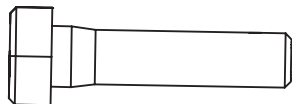
**H100408 | SCREW PWH**  
(x136) | 8x1/2 BLK



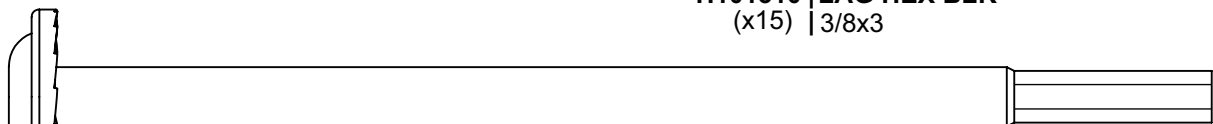
**H101305 | CONCRETE ANCHOR**  
(x12) |



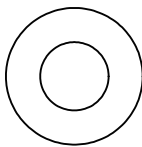
**H101165 | CONCRETE ANCHOR**  
(x15) | 3/8x3" BLK



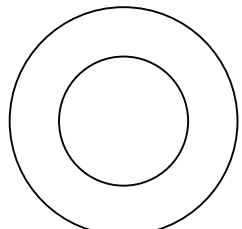
**H100481 | BOLT HEX**  
(x12) | 5/16x1 1/4 BLK



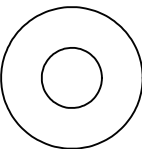
**H101230 | BOLT WH**  
(x10) | 5/16x6 S.S



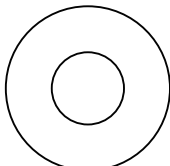
**H100474 | WASHER FLAT**  
(x10) | 9x19 BLK



**H100497 | WASHER FLAT**  
(x15) | 17x30 BLK



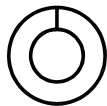
**H100630 | WASHER FLAT**  
(x12) | 8x19 BLK



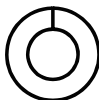
**H101316 | WASHER FLAT**  
(x12) | 8.5x30 BLK



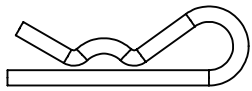
**H100653 | NUT LOCK**  
(x4) | 1/4 BLK



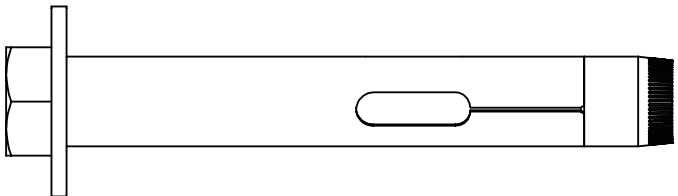
**H100477 | WASHER SPLIT**  
(x12) | 5/16 BLK



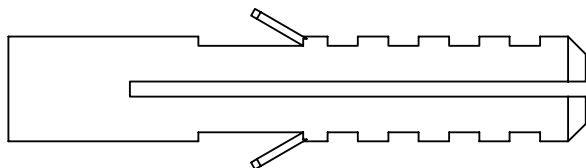
**H100774 | WASHER SPLIT**  
(x2) | 1/4 BLK



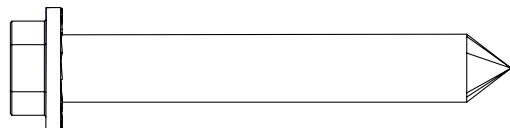
**H101161 | COTTER PIN**  
(x68) |



**H101313 | EXPANSION ANCHOR**  
(x15) |



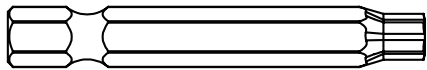
**H101311 | PLASTIC ANCHOR**  
(x15) | 3/8



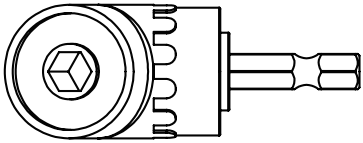
**H101310 | LAG HEX BLK**  
(x15) | 3/8x3

# OWNER'S MANUAL - PARTS IDENTIFICATION

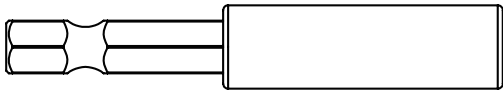
## HARDWARE COMPONENTS



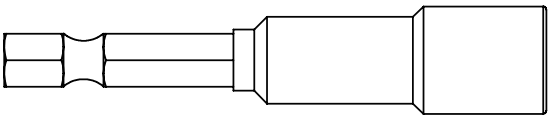
**H100147 | TORX BIT**  
(x1) | T-30



**H101114 | RIGHT ANGLE  
DRILL ADAPTER**  
(x1) |



**H101100 | MAGNETIC DRIVER**  
(x1)



**H101106 | SOCKET DRIVER**  
(x1)



**H100114 | TORX BIT**  
(x1) | T-30

# PRE-ASSEMBLY STEP 1 - SORTING PARTS

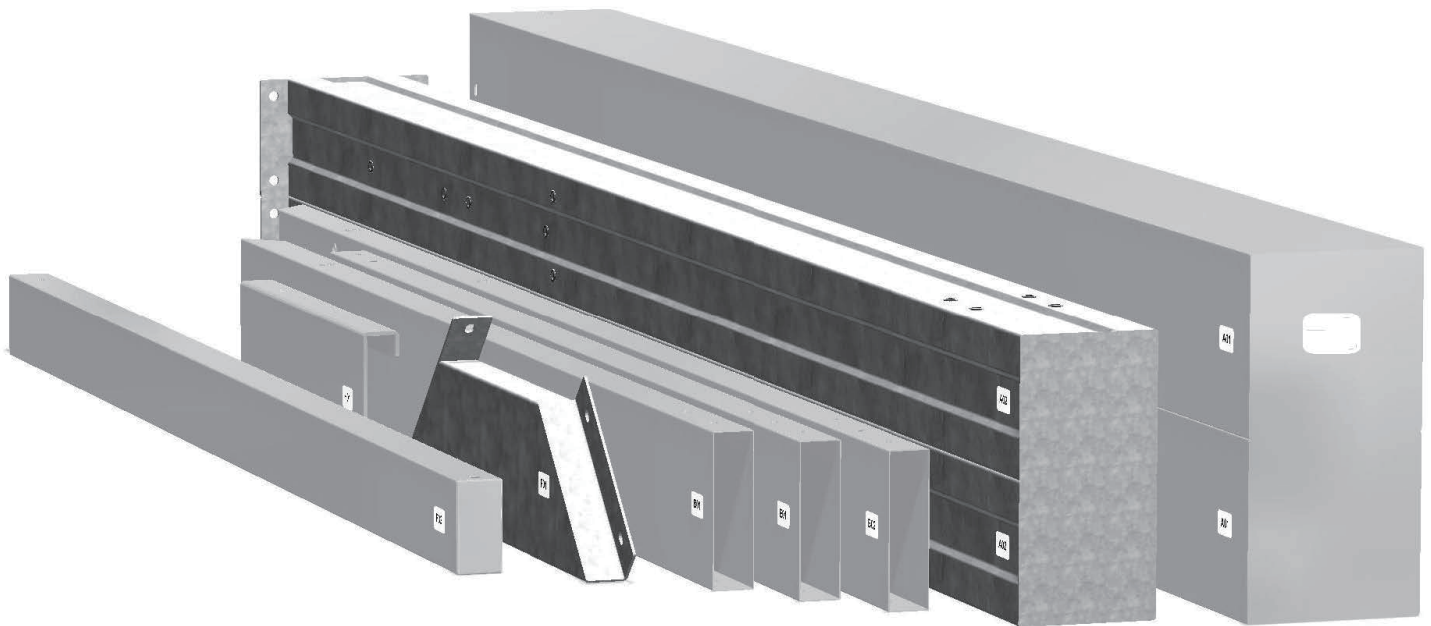
It is critical for ease of assembly that you take the time to sort and organize the parts and hardware.

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## 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.

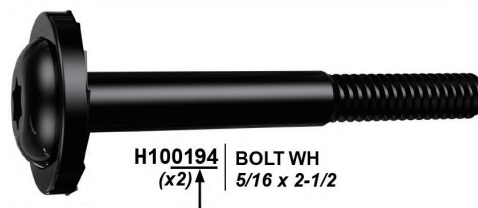
**NOTE: CARTONS ARE NOT ORGANIZED BY PART NUMBER.  
IT IS RECOMMENDED TO LEAVE LOUVER ASSEMBLIES IN BOX UNTIL NEEDED.**



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## 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



Cordless Drill or  
Electric Drill

Drill Attachments:  
Phillips Head



1/8", 3/16", 3/8" &  
7/16" Drill Bits



Phillips Screw Driver



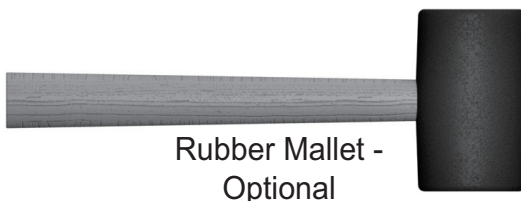
Open End Wrench  
7/16"



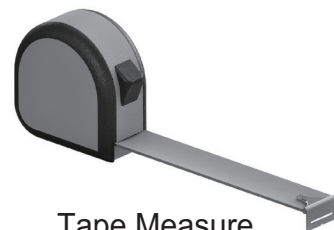
3/8" Drive Ratchet, 1/2" &  
7/16" STD Sockets 1/2" & 7/16"  
Deep Sockets



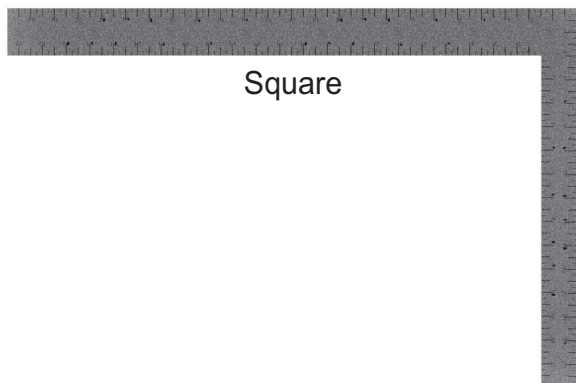
Claw Hammer



Rubber Mallet -  
Optional



Tape Measure



Square



Level 24"

## PRE-ASSEMBLY STEP 3 - CHOOSE YOUR ASSEMBLY METHOD

There are several types of assembly instructions available to you.

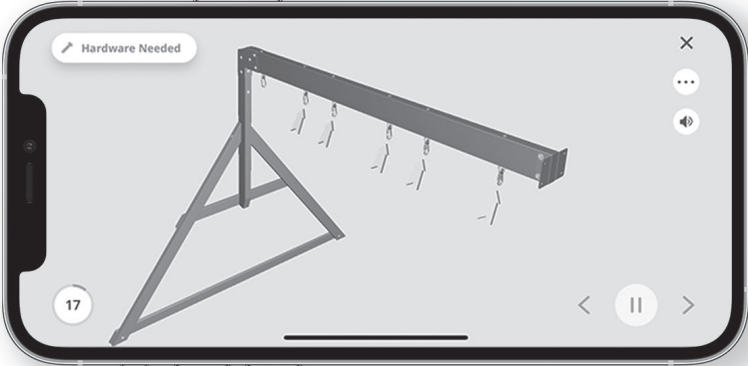
1. Printed Assembly Manual included with your set
2. BILT APP - 3D interactive instructions
3. Combination of the Printed Manual and BILT APP (Note: Step numbers can differ between the two methods)



### Scan for easy 3D instructions

Download the BILT app  
before you begin

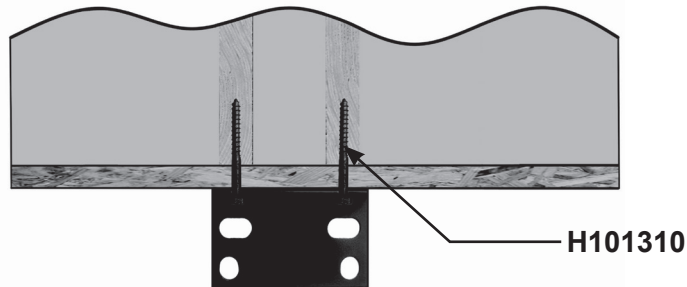




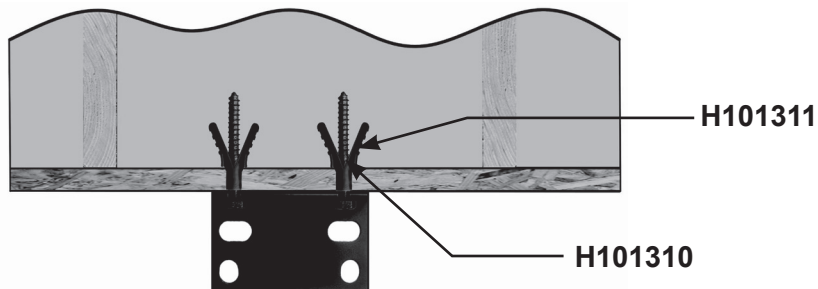


# OWNER'S MANUAL - WALL ATTACHMENT TYPES

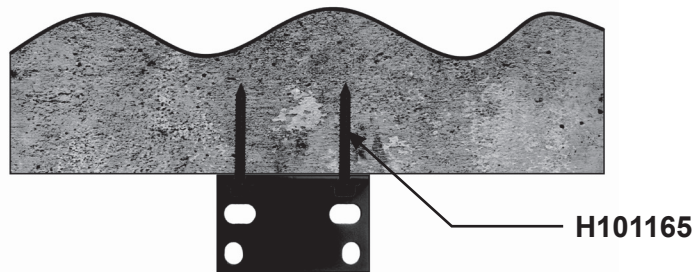
Determine which wall attachment type works best for your application. If unknown consult a licensed contractor. The recommended hardware below is provided. Backyard Discovery does not assume responsibility for any damages to your house.



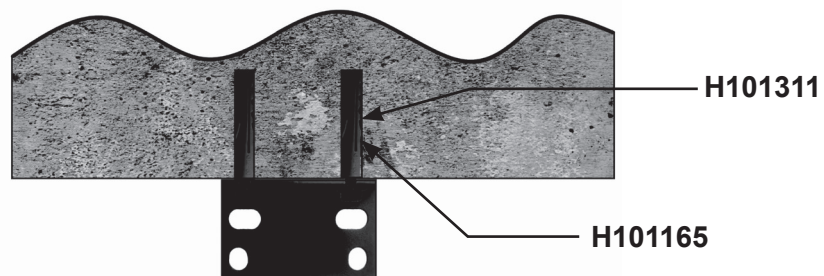
**ATTACHING TO WALL WITH LAG SCREWS**



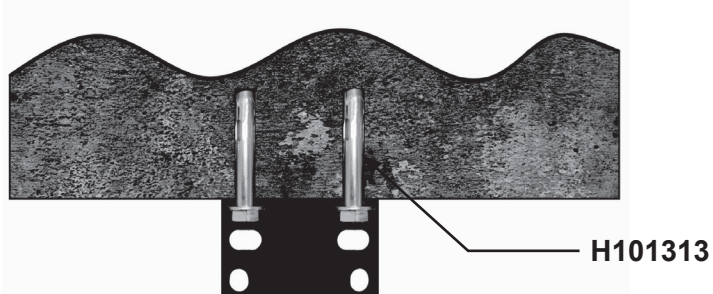
**ATTACHING TO WALL WITH LAGS USING PLASTIC ANCHORS**



**ATTACHING TO MASONRY WITH CONCRETE ANCHORS**



**ATTACHING TO MASONRY WITH CONCRETE ANCHORS USING PLASTIC ANCHORS**

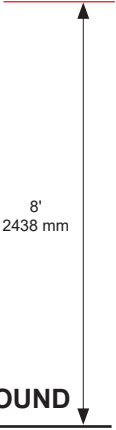


**ATTACHING TO MASONRY WITH EXPANSION ANCHORS**

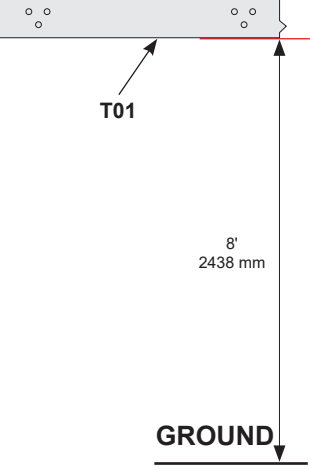


# STEP 1 - WALL BRACKET LOCATION LAYOUT

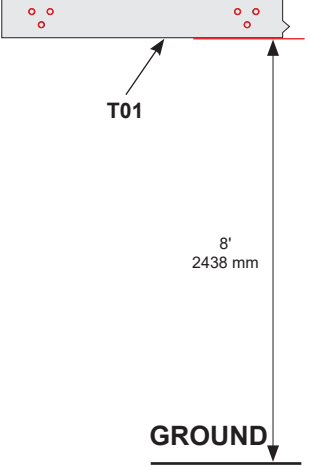
1. DRAW A STRAIGHT LINE 8' 0" [2438 mm] OFF THE GROUND.



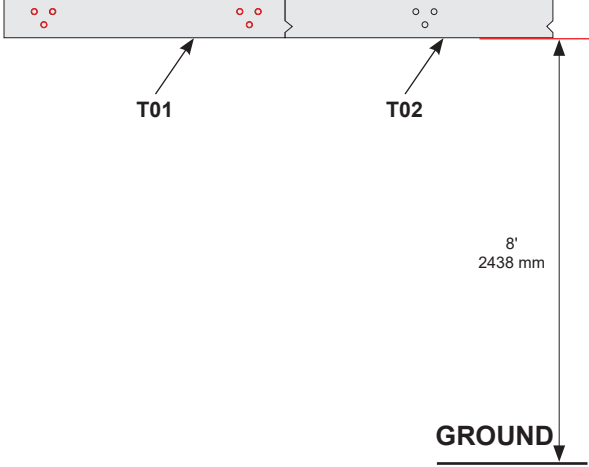
2. ALIGN THE BOTTOM OF T01 WITH THE STRAIGHT LINE AND KEEP IT LEVEL BY USING A 24" LEVEL .



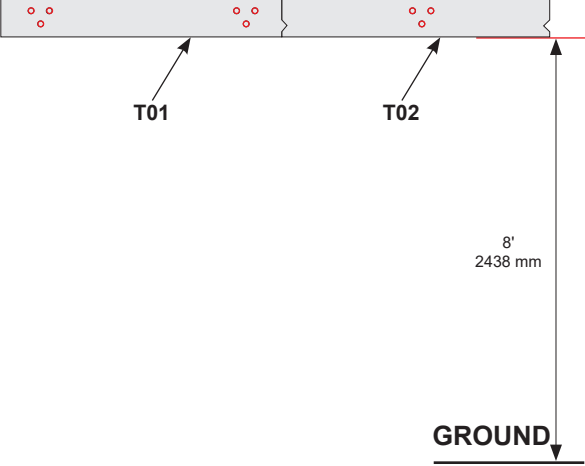
3. DRAW 6 CIRCLES ACCORDING TO HOLES IN T01.



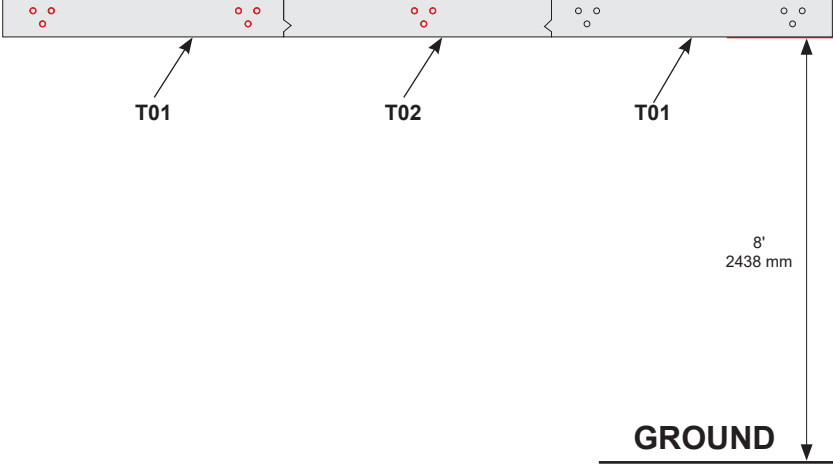
4. ALIGN T02 WITH T01 AND KEEP IT LEVEL BY USING A 24" LEVEL .



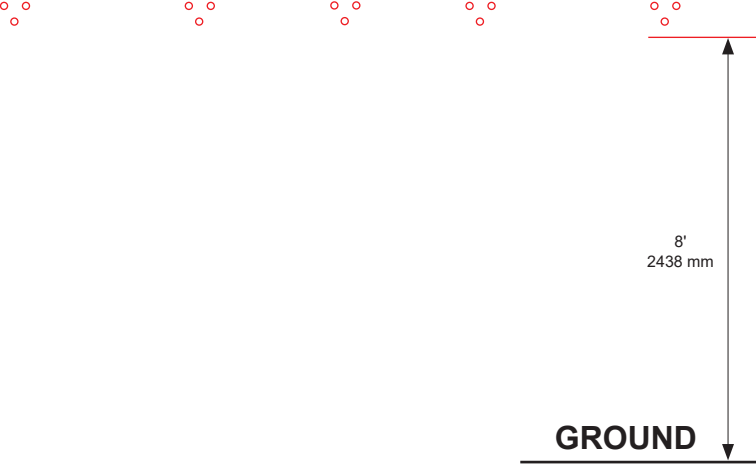
5. DRAW 3 CIRCLES ACCORDING TO HOLES IN T02.



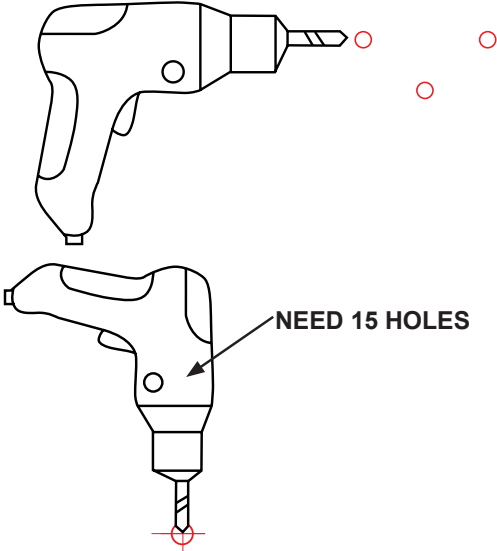
6. ALIGN T01 WITH T02 AND KEEP IT LEVEL BY USING A 24" LEVEL.



7. DRAW 6 CIRCLES ACCORDING TO HOLES IN T01 .

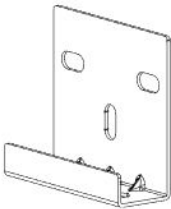


8. DRILL INTO THE WALL AT THE CENTER OF EACH CIRCLE.  
DRILL SIZE DETAILS ARE OUTLINED IN STEP 2A-E, DEPENDING ON WHAT ANCHORS YOU ARE USING.

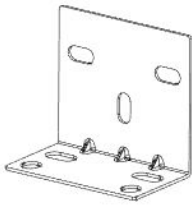


**CRITICAL: ALL HOLES MUST BE LEVEL ACROSS THE 5 BRACKETS.**

# STEP 2A - WALL BRACKET INSTALLATION USING CONCRETE ANCHORS



K03 CENTER WALL BRACKET - A4M03482  
(x3) 2 11/16"x5 1/8"x5 15/16" (69x131x152)



K04 CORNER WALL BRACKET - A4M03483  
(x2) 3 7/8"x5 1/8"x5 15/16" (99x131x152)

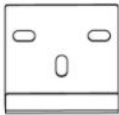
| Qty | PartNo  | Description                |
|-----|---------|----------------------------|
| 15  | H101165 | CONCRETE ANCHOR 3/8x3" BLK |
| 15  | H100497 | WASHER FLAT 17x30 BLK      |

- DRILL 15 Ø5/16"/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.

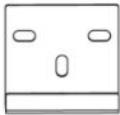
BRACKET LAYOUT



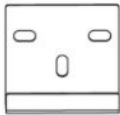
K04



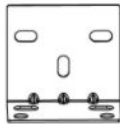
K03



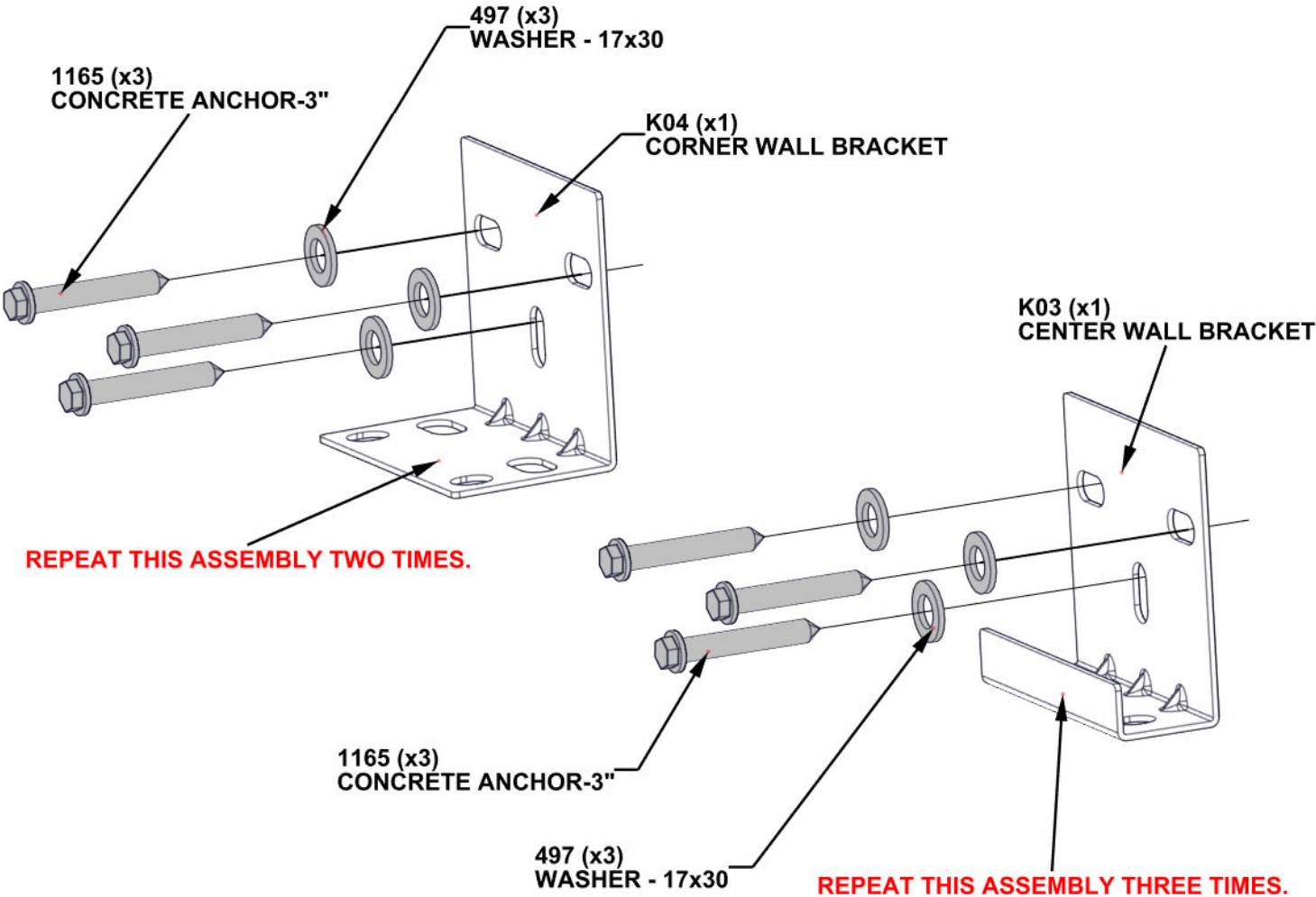
K03



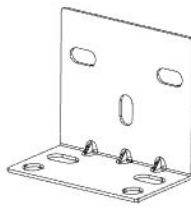
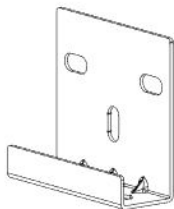
K03



K04



# STEP 2B - WALL BRACKET INSTALLATION USING CONCRETE ANCHORS AND PLASTIC ANCHORS



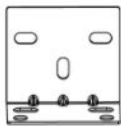
| Qty | PartNo  | Description                |
|-----|---------|----------------------------|
| 15  | H101165 | CONCRETE ANCHOR 3/8x3" BLK |
| 15  | H101311 | PLASTIC ANCHOR             |
| 15  | H100497 | WASHER FLAT 17x30 BLK      |

K03 CENTER WALL BRACKET - A4M03482  
(x3) 2 11/16"x5 1/8"x5 15/16" (69x131x152)

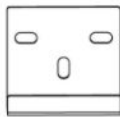
K04 CORNER WALL BRACKET - A4M03483  
(x2) 3 7/8"x5 1/8"x5 15/16" (99x131x152)

- DRILL 15 Ø1/2"/12mm HOLES IN THE WALL ACCORDING TO LAYOUT IN STEP 1.
- INSTALL WALL BRACKETS WITH PLASTIC ANCHORS AND 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.

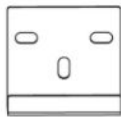
## BRACKET LAYOUT



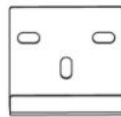
K04



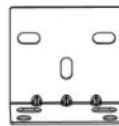
K03



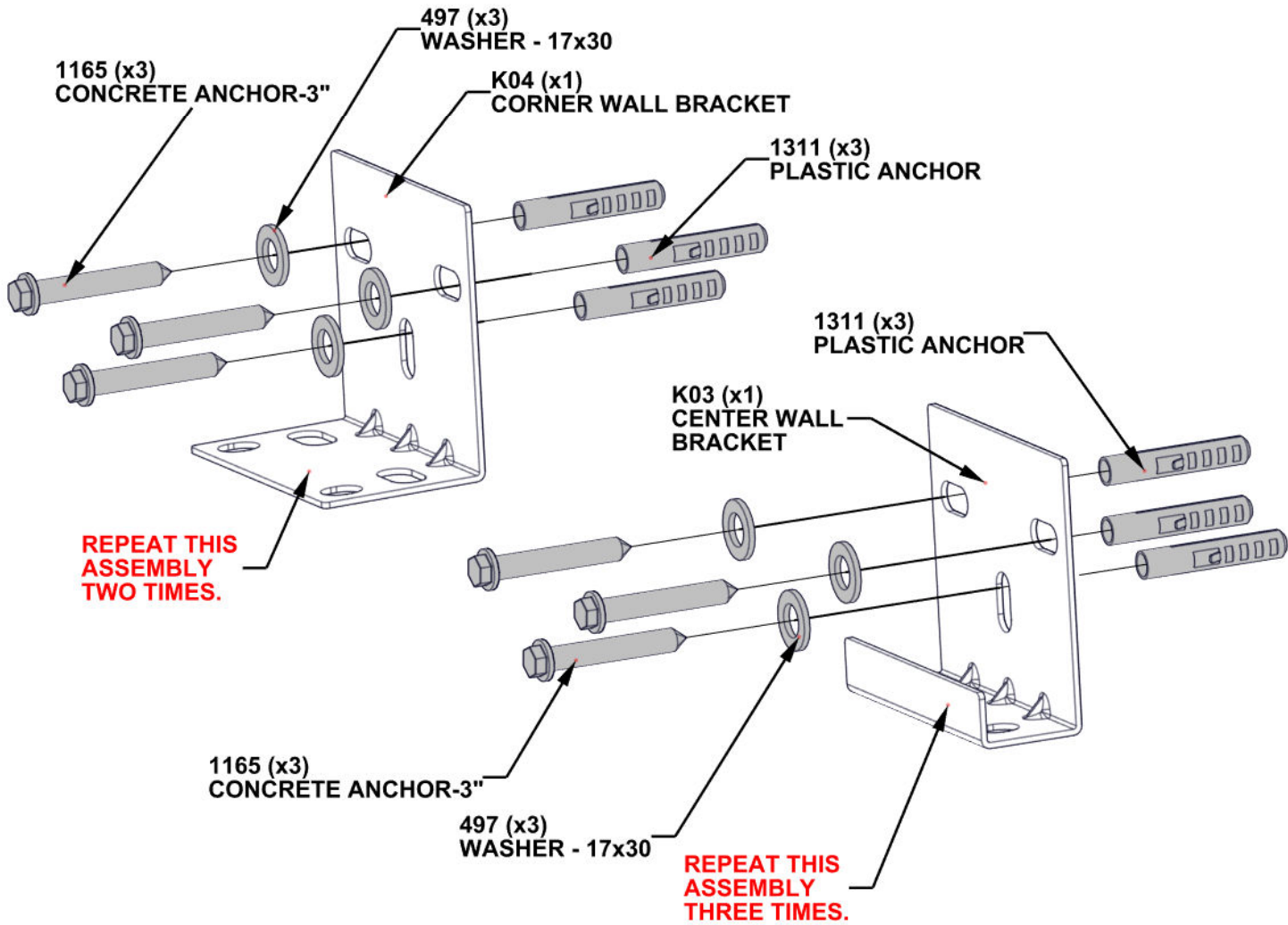
K03



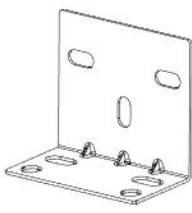
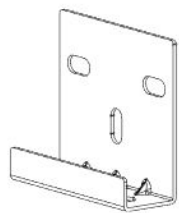
K03



K04



# STEP 2C - WALL BRACKET INSTALLATION USING LAG SCREWS



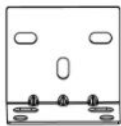
| Qty | PartNo  | Description           |
|-----|---------|-----------------------|
| 15  | H101310 | LAG BOLT HEX 3/8 X 3  |
| 15  | H100497 | WASHER FLAT 17x30 BLK |

K03 CENTER WALL BRACKET - A4M03482  
(x3) 2 11/16"x5 1/8"x5 15/16" (69x131x152)

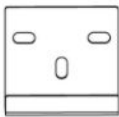
K04 CORNER WALL BRACKET - A4M03483  
(x2) 3 7/8"x5 1/8"x5 15/16" (99x131x152)

- DRILL 15 Ø1/4"/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.

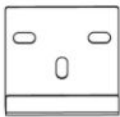
## BRACKET LAYOUT



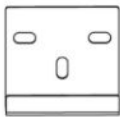
K04



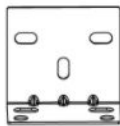
K03



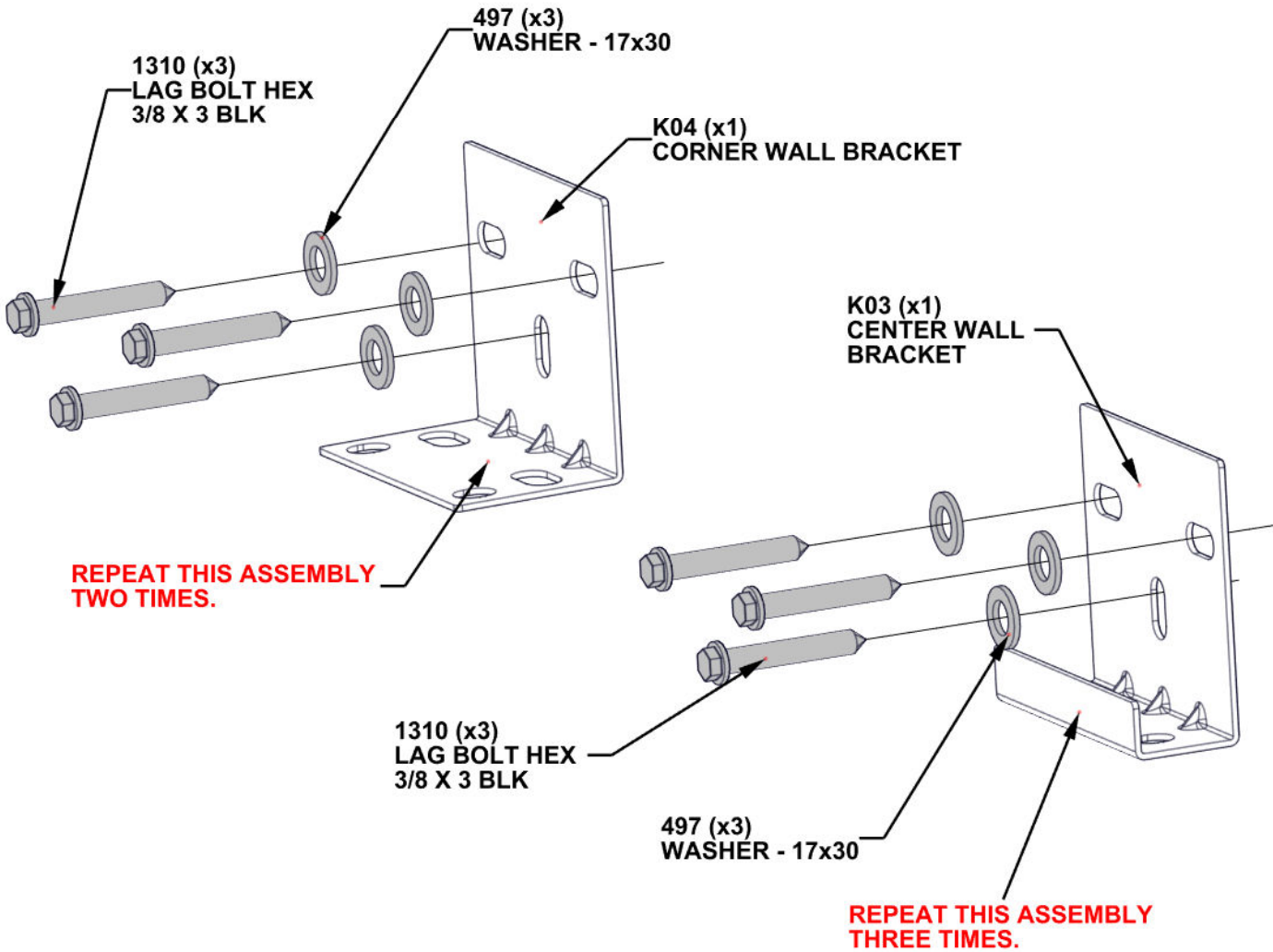
K03



K03

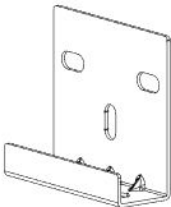


K04

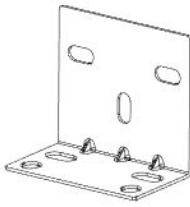




# STEP 2D - WALL BRACKET INSTALLATION USING LAG SCREWS AND PLASTIC ANCHORS



K03 CENTER WALL BRACKET - A4M03482  
(x3) 2 11/16"x5 1/8"x5 15/16" (69x131x152)



K04 CORNER WALL BRACKET - A4M03483  
(x2) 3 7/8"x5 1/8"x5 15/16" (99x131x152)

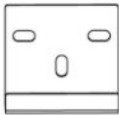
| Qty | PartNo  | Description           |
|-----|---------|-----------------------|
| 15  | H101310 | LAG BOLT HEX 3/8 X 3  |
| 15  | H101311 | PLASTIC ANCHOR        |
| 15  | H100497 | WASHER FLAT 17x30 BLK |

- DRILL 15 Ø1/2"/12mm HOLES IN THE WALL ACCORDING TO LAYOUT IN STEP 1.
- INSTALL WALL BRACKETS WITH PLASTIC ANCHORS AND 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.

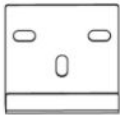
## BRACKET LAYOUT



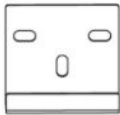
K04



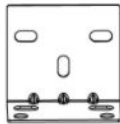
K03



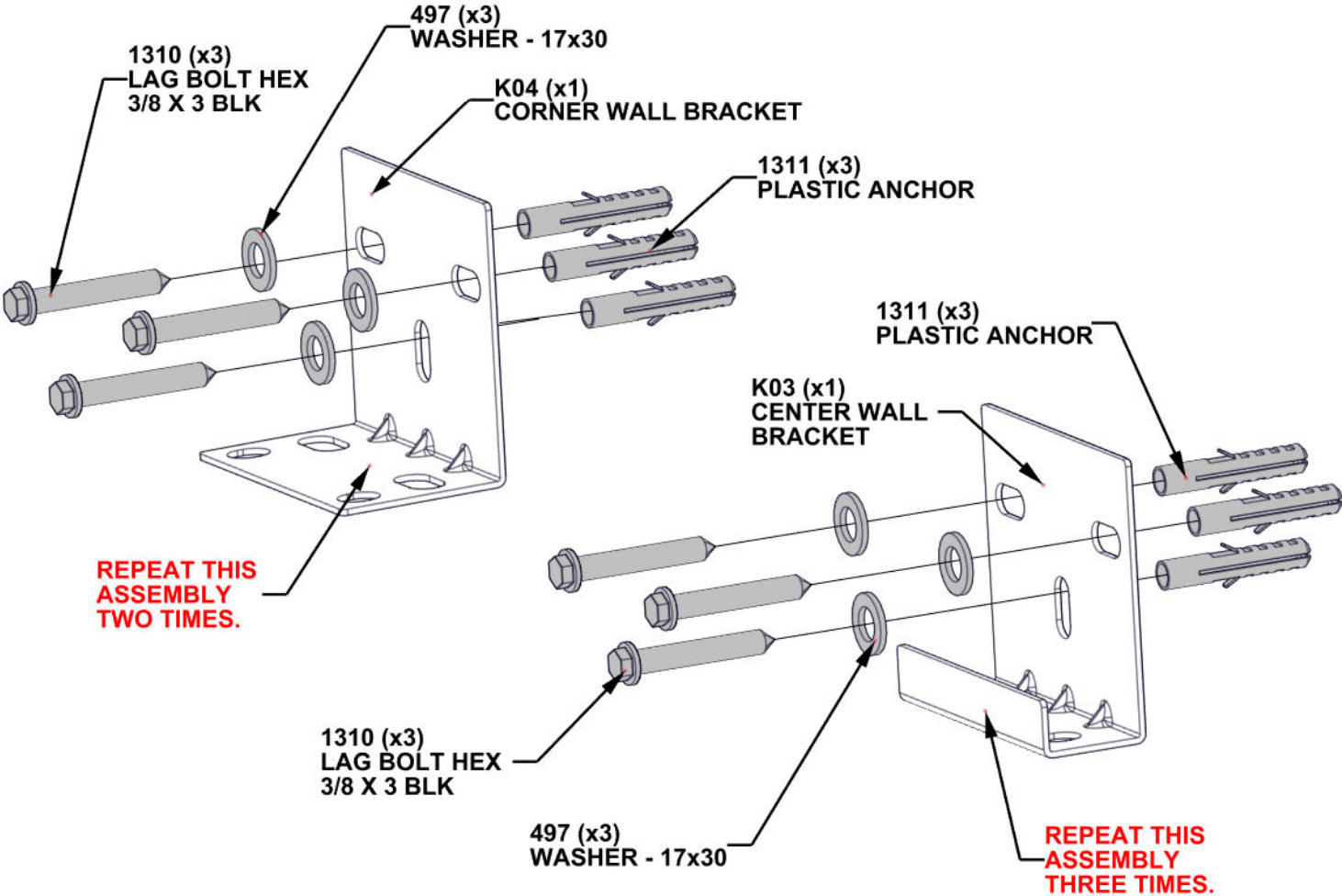
K03



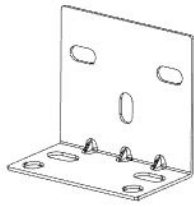
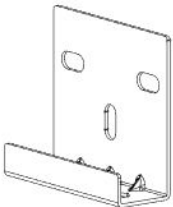
K03



K04



# STEP 2E - WALL BRACKET INSTALLATION USING EXPANSION ANCHORS



| Qty | PartNo  | Description           |
|-----|---------|-----------------------|
| 15  | H101313 | EXPANSION ANCHOR      |
| 15  | H100497 | WASHER FLAT 17x30 BLK |

K03 CENTER WALL BRACKET - A4M03482  
(x3) 2 11/16"x5 1/8"x5 15/16" (69x131x152)

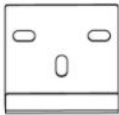
K04 CORNER WALL BRACKET - A4M03483  
(x2) 3 7/8"x5 1/8"x5 15/16" (99x131x152)

- DRILL 15 Ø3/8"/10mm HOLES IN THE WALL ACCORDING TO LAYOUT IN STEP 1.
- INSTALL WALL BRACKETS WITH EXPANSION 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.

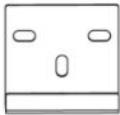
## BRACKET LAYOUT



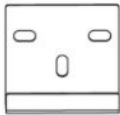
K04



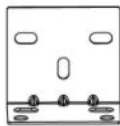
K03



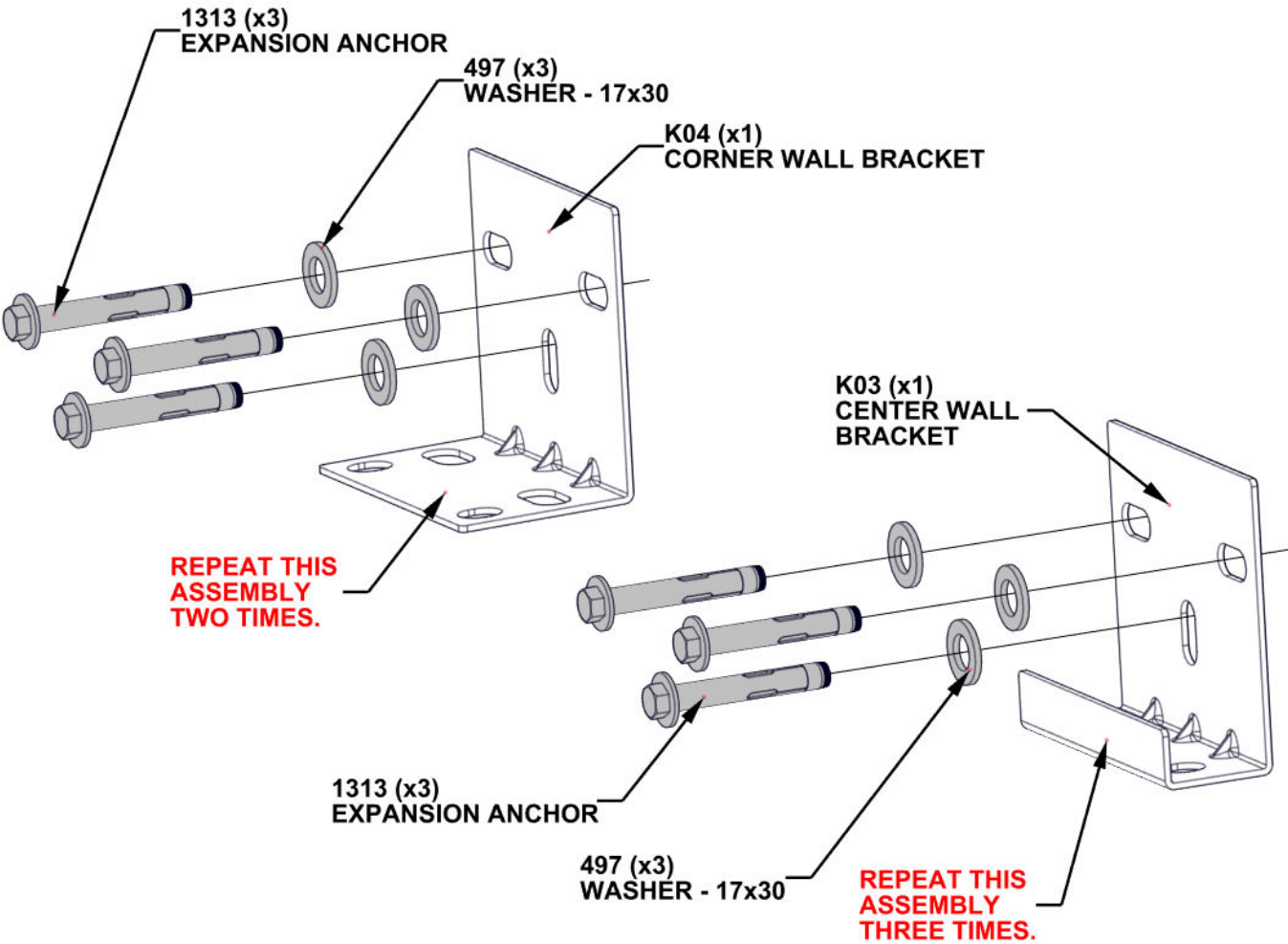
K03



K03



K04



# STEP 3A - REAR BEAM ASSEMBLY

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



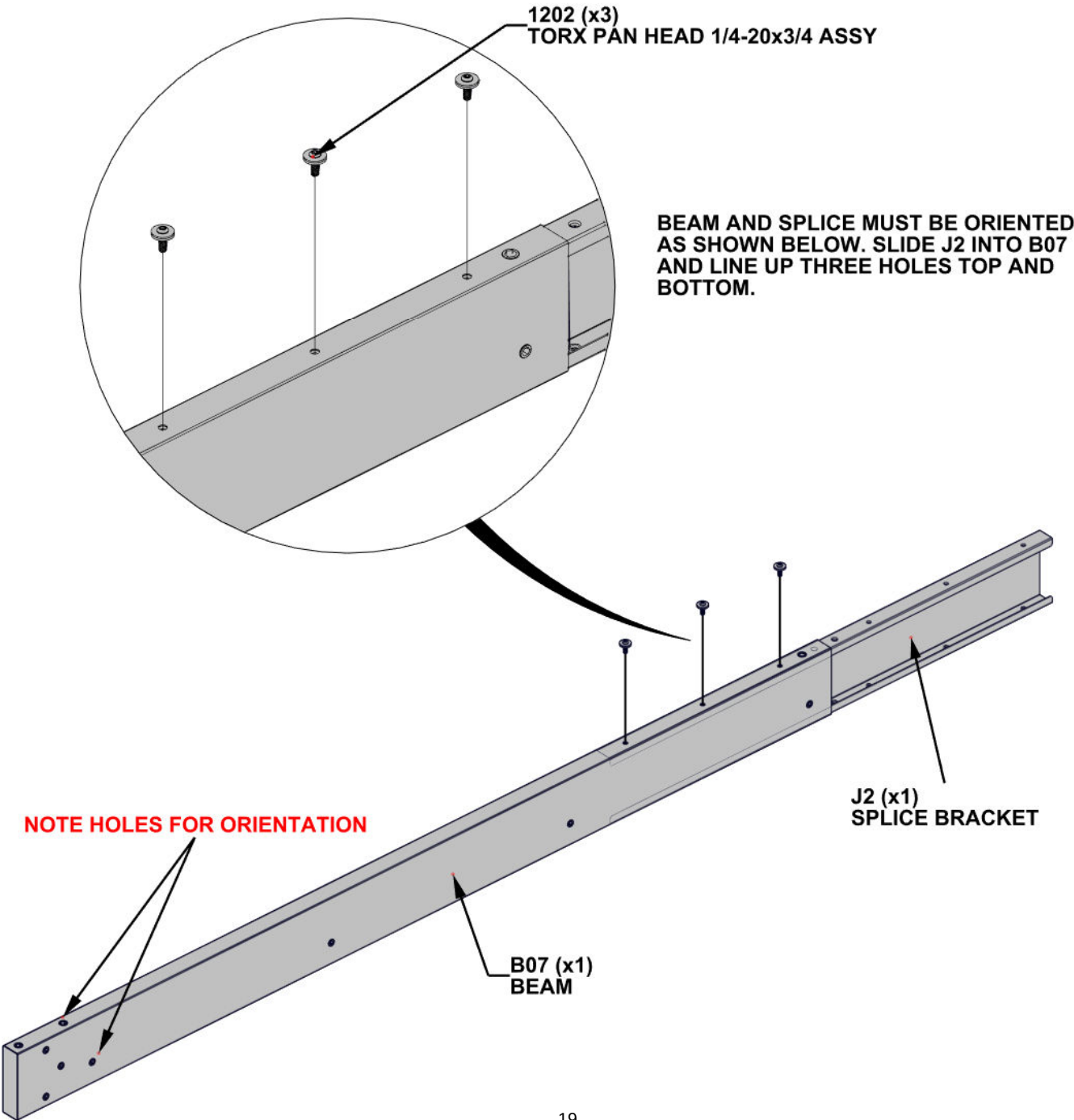
B07 BEAM - A4M03497  
(x1) 1 7/16"x5 1/4"x72 7/16" (36x134x1839)



J2 SPLICE BRACKET - A4M03498  
(x1) 1 5/16"x5 3/16"x39 3/8" (33.2x131.2x1000)

- HAND TIGHTEN ONLY.

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





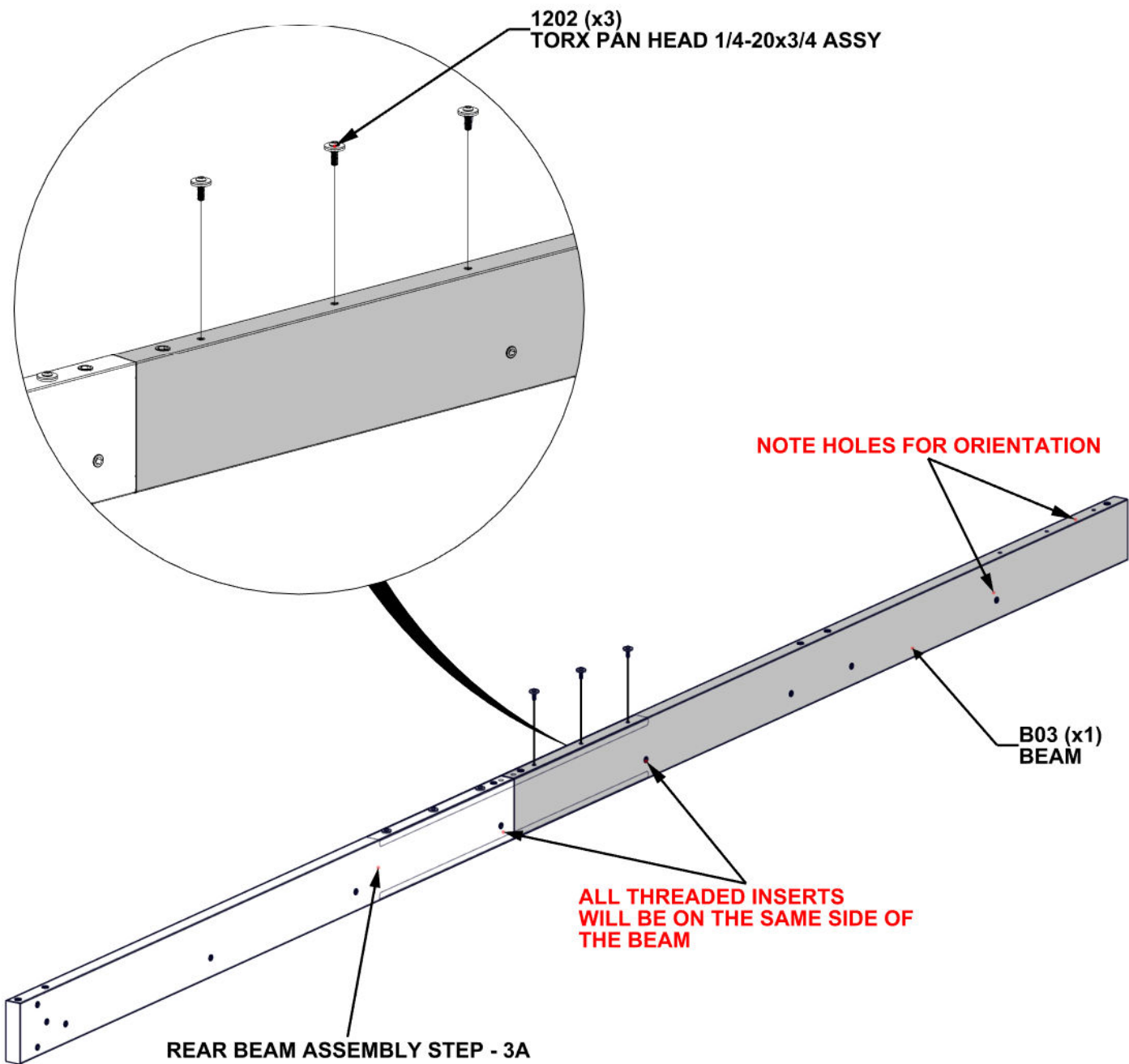
# STEP 3B - REAR BEAM ASSEMBLY

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



B03 BEAM - A4M03496  
(x1) 1 7/16"x5 1/4"x89 7/8" (36x134x2283)

- SLIDE B03 ONTO SPLICE BRACKET.
- GENTLY TAP ENDS OF ASSEMBLY WITH RUBBER Mallet UNTIL GAP CLOSES, THEN TIGHTEN ALL BOLTS ON BEAM.



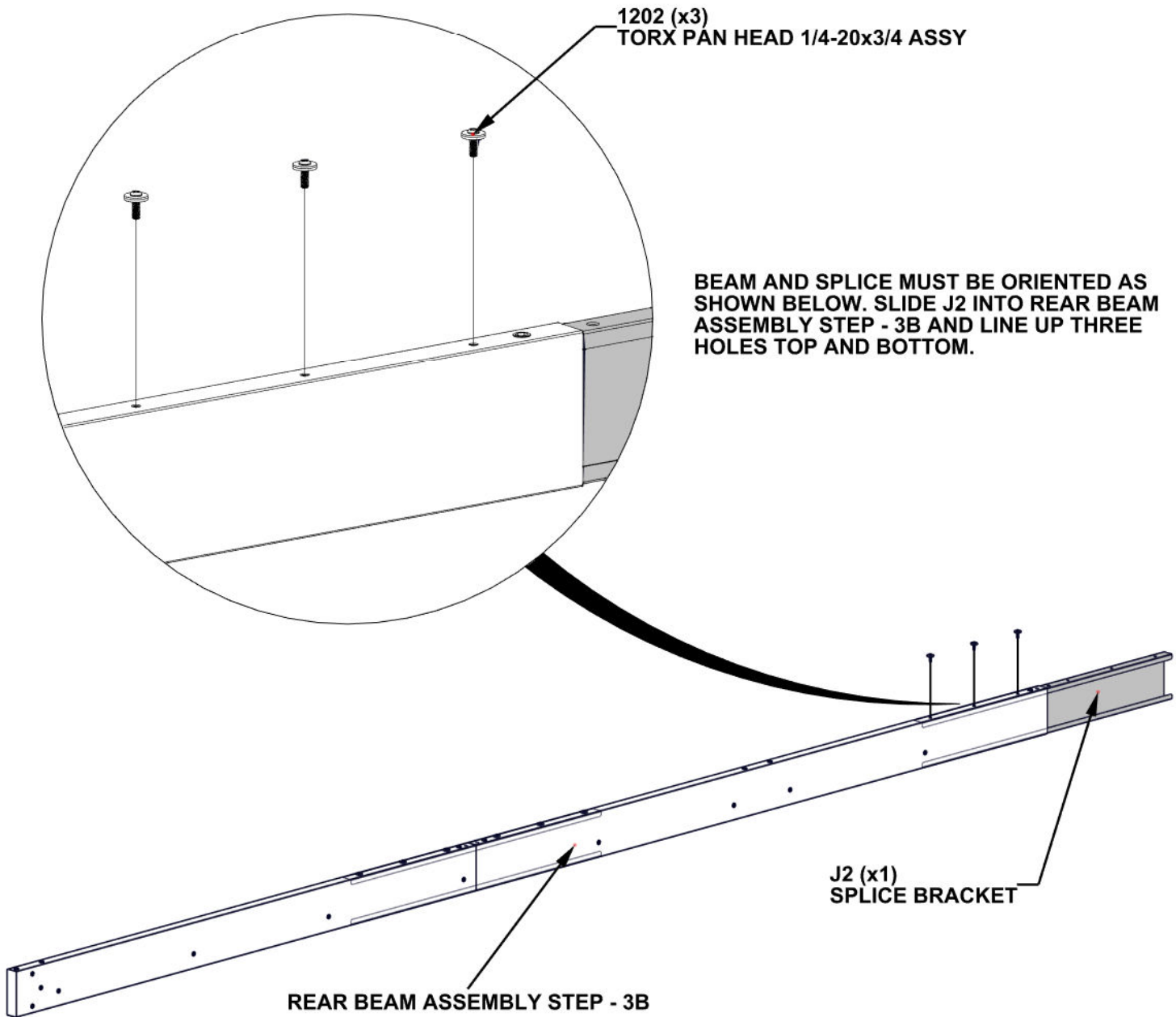
# STEP 3C - REAR BEAM ASSEMBLY

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



J2 SPLICE BRACKET - A4M03498  
(x1) 1 5/16"x5 3/16"x39 3/8" (33.2x131.2x1000)

- HAND TIGHTEN ONLY.



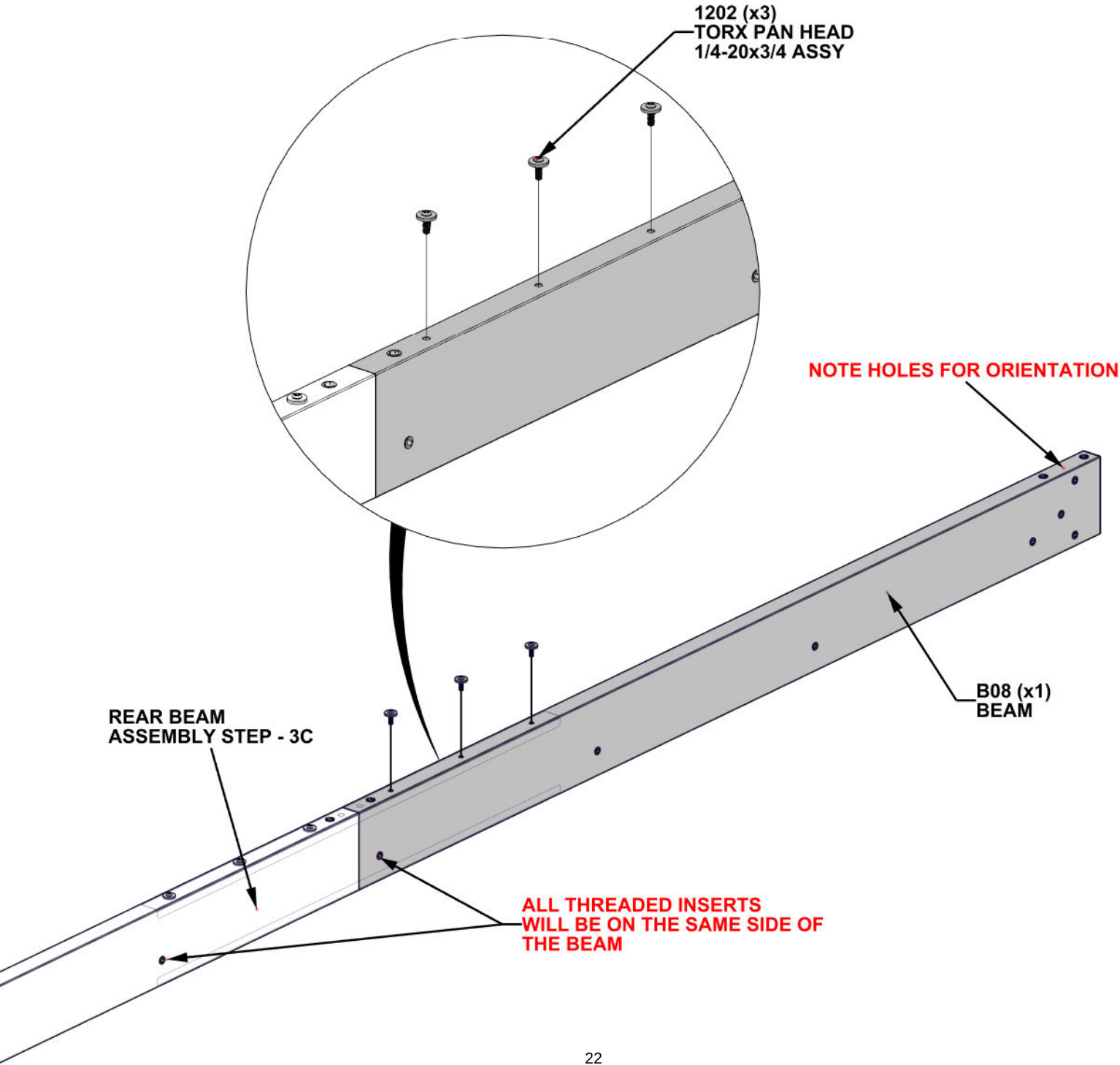
# STEP 3D - REAR BEAM ASSEMBLY

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



B08 BEAM - A4M03495  
(x1) 1 7/16"x5 1/4"x72 7/16" (36x134x1839)

- SLIDE B08 ONTO SPLICE BRACKET.
- GENTLY TAP ENDS OF ASSEMBLY WITH RUBBER Mallet UNTIL GAP CLOSES, THEN TIGHTEN ALL BOLTS ON BEAM.



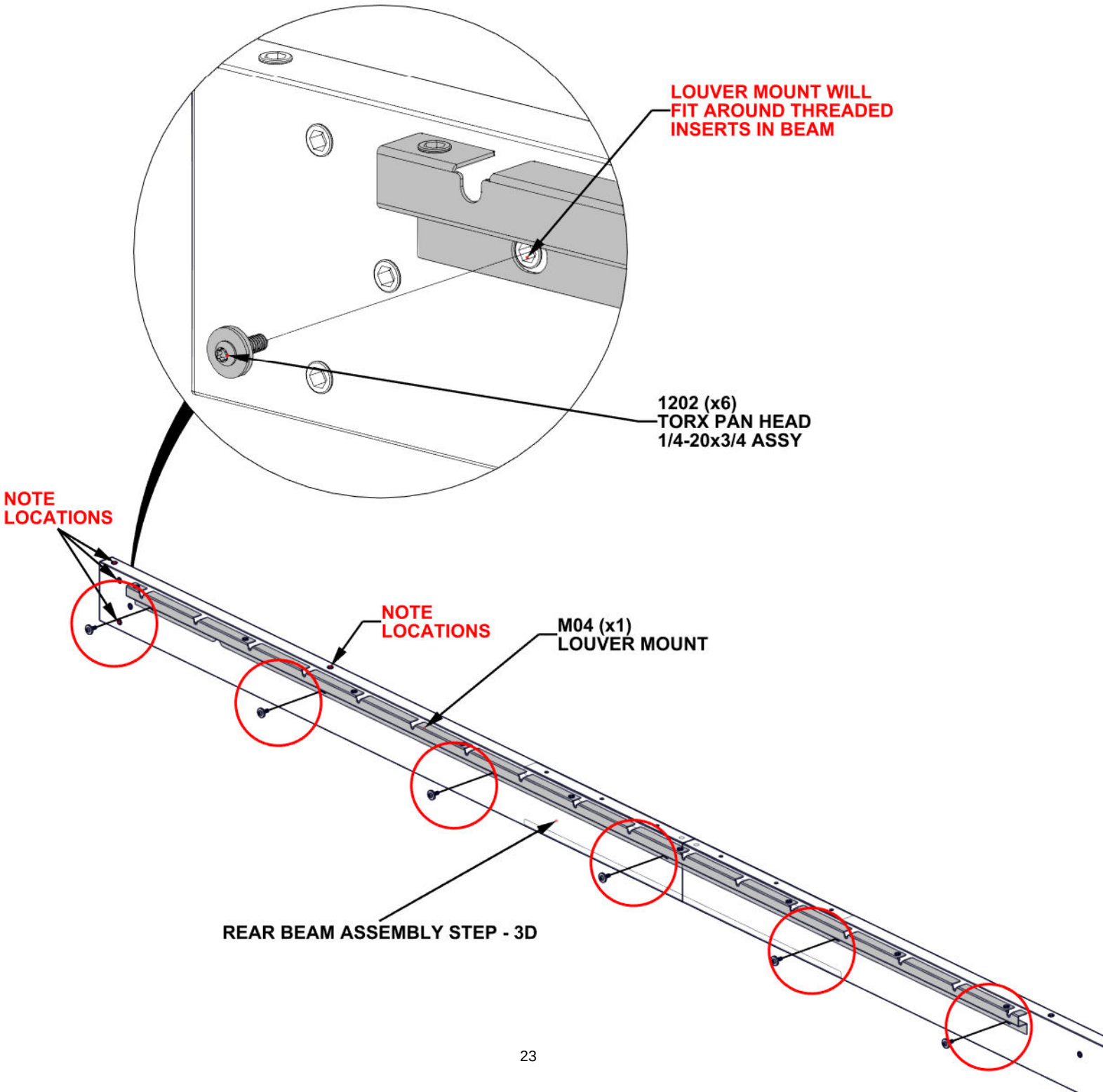
# STEP 4A - REAR BEAM LOUVER MOUNT



M04 LOUVER MOUNT - A4M02596  
(x1) 1"x1 15/16"x110 3/4" (25x49x2813)

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

- HAND TIGHTEN ONLY.



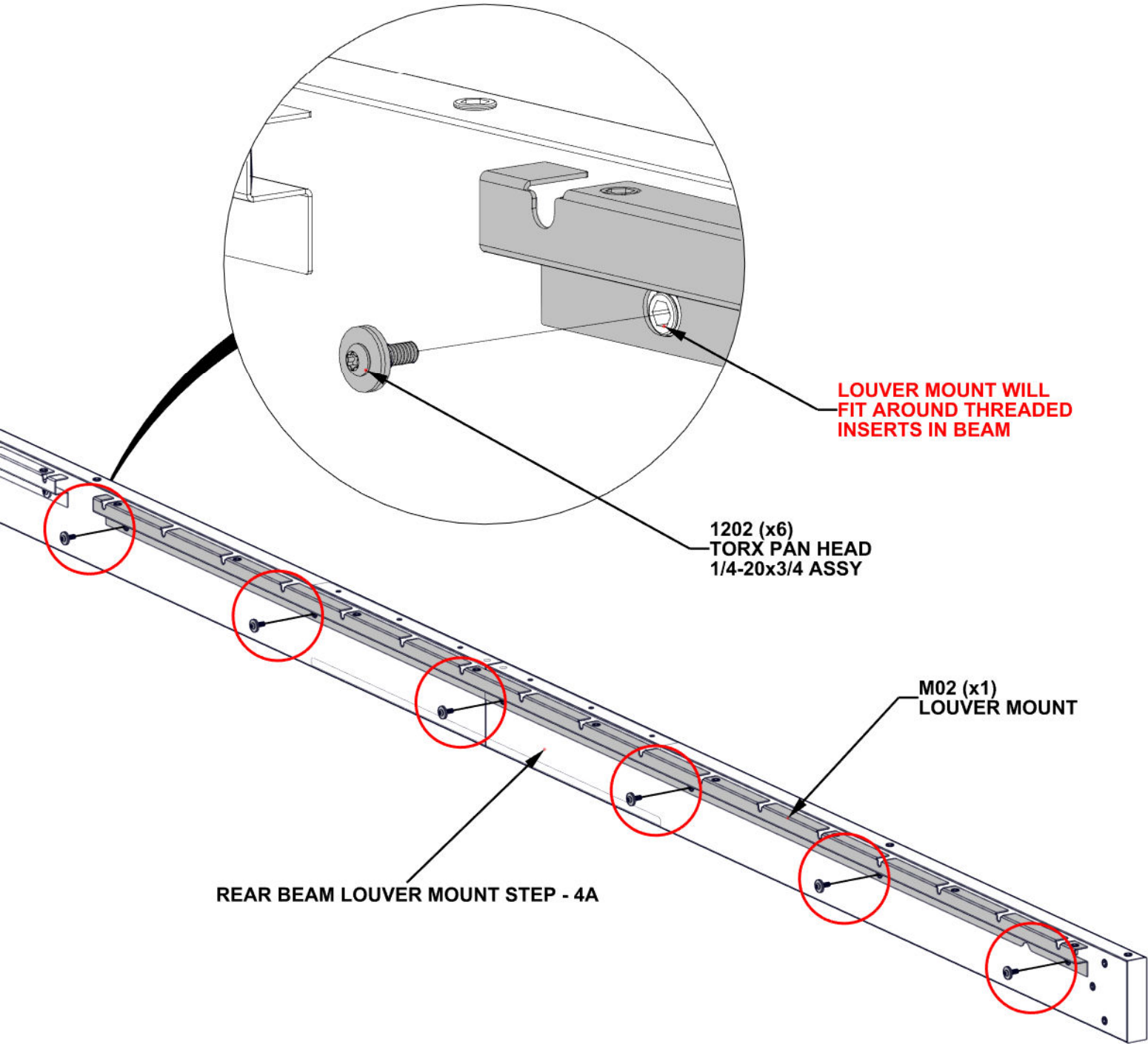
# STEP 4B - REAR BEAM LOUVER MOUNT



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

M02 LOUVER MOUNT - A4M02594  
(x1) 1"x1 15/16"x110 3/4" (25x49x2813)

- HAND TIGHTEN ONLY.





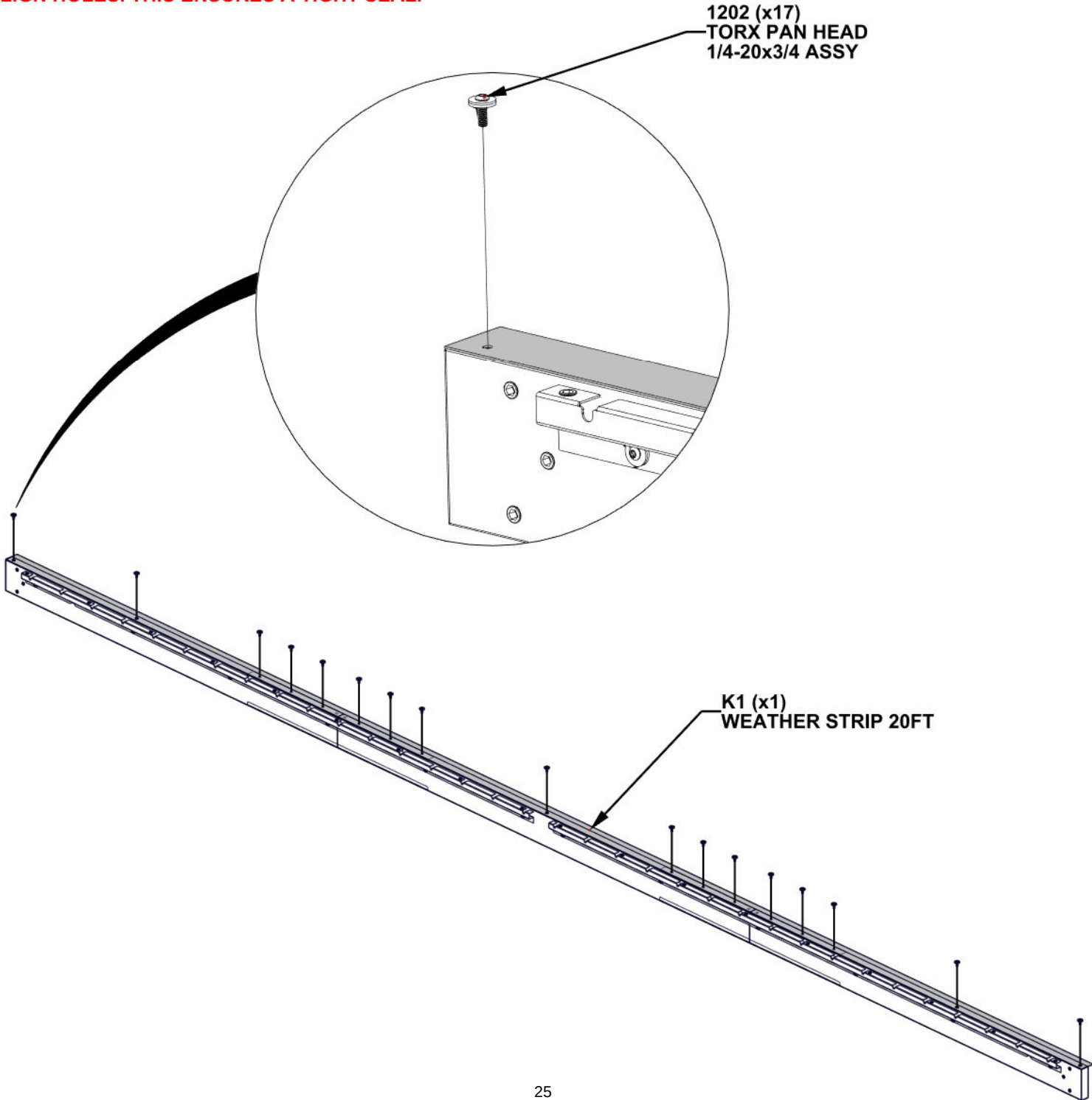
# STEP 5 - REAR BEAM WEATHER STRIP

| Qty | PartNo  | Description                   |
|-----|---------|-------------------------------|
| 17  | H101202 | TORX PAN HEAD 1/4-20x3/4 ASSY |

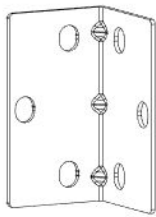
K1 WEATHER STRIP 20FT - A6P01106  
(x1) 1/16"x3 15/16"x225 3/8" (1.6x100x5724)

- ALIGN SCREW HOLES.

- WEATHER STRIP WILL NEED TO BE STRETCHED TO  
ALIGN HOLES. THIS ENSURES A TIGHT SEAL.



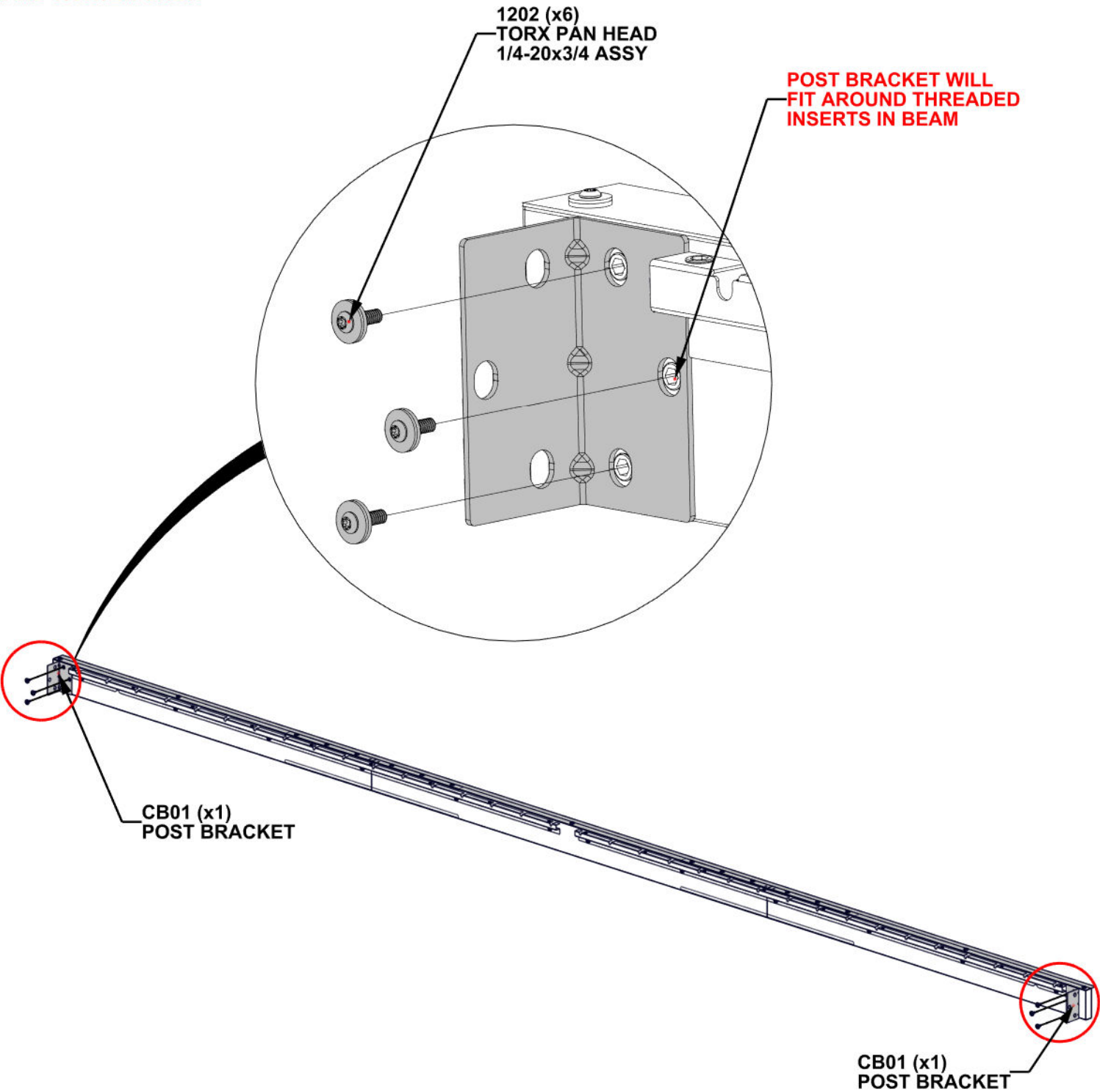
# STEP 6 - REAR BEAM POST BRACKET



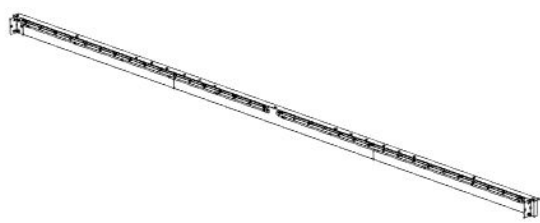
| Qty | PartNo  | Description                   |
|-----|---------|-------------------------------|
| 6   | H101202 | TORX PAN HEAD 1/4-20x3/4 ASSY |

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

- HAND TIGHTEN ONLY.



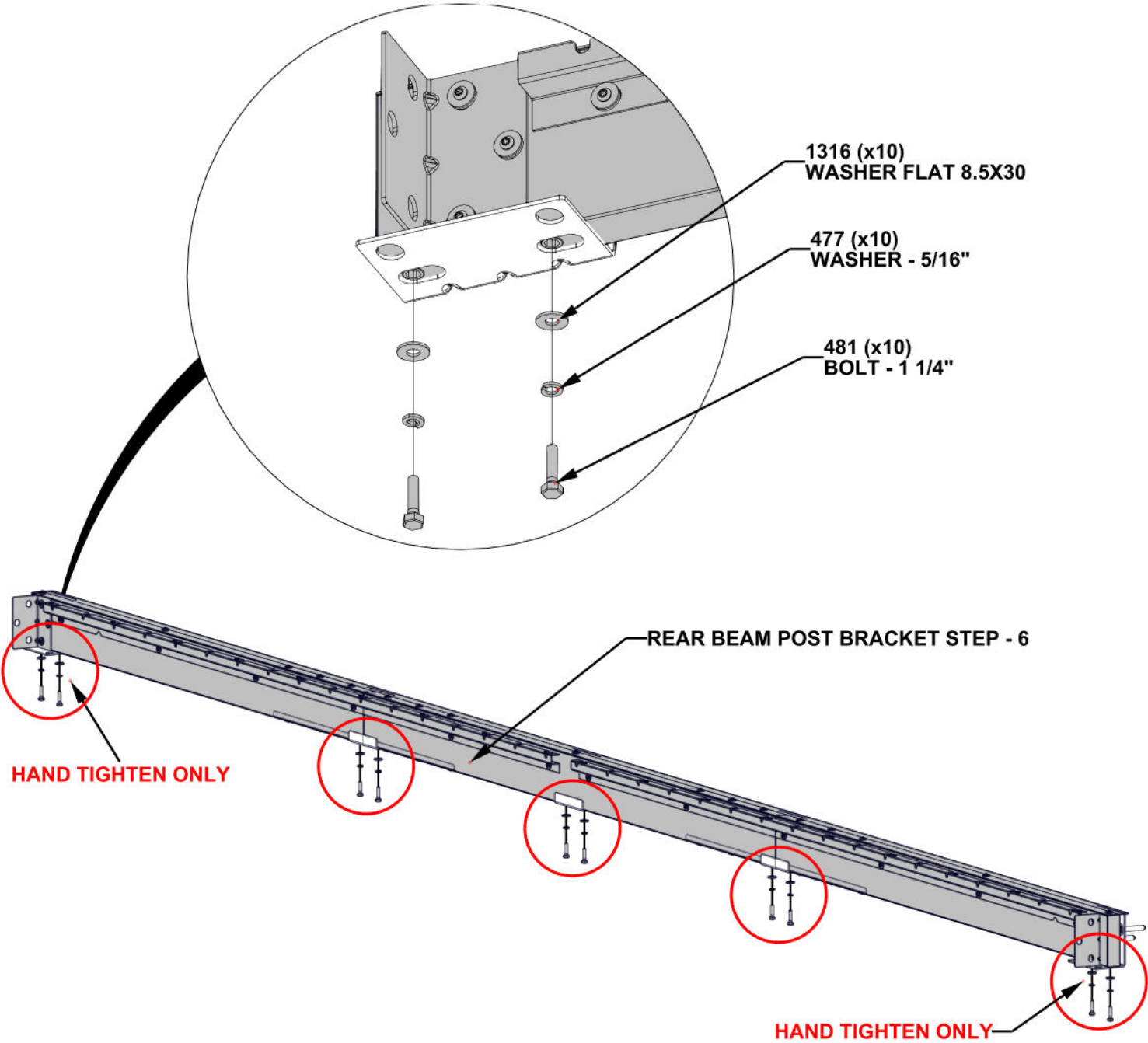
# STEP 7 - REAR BEAM ASSEMBLY



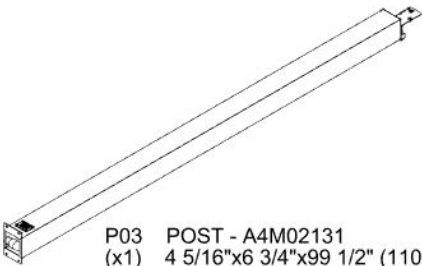
REAR BEAM POST BRACKET  
STEP - 6

| Qty | PartNo  | Description             |
|-----|---------|-------------------------|
| 10  | H100481 | BOLT HEX 5/16x1 1/4 BLK |
| 10  | H101316 | WASHER FLAT 8.5x30 BLK  |
| 10  | H100477 | WASHER SPLIT 5/16 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



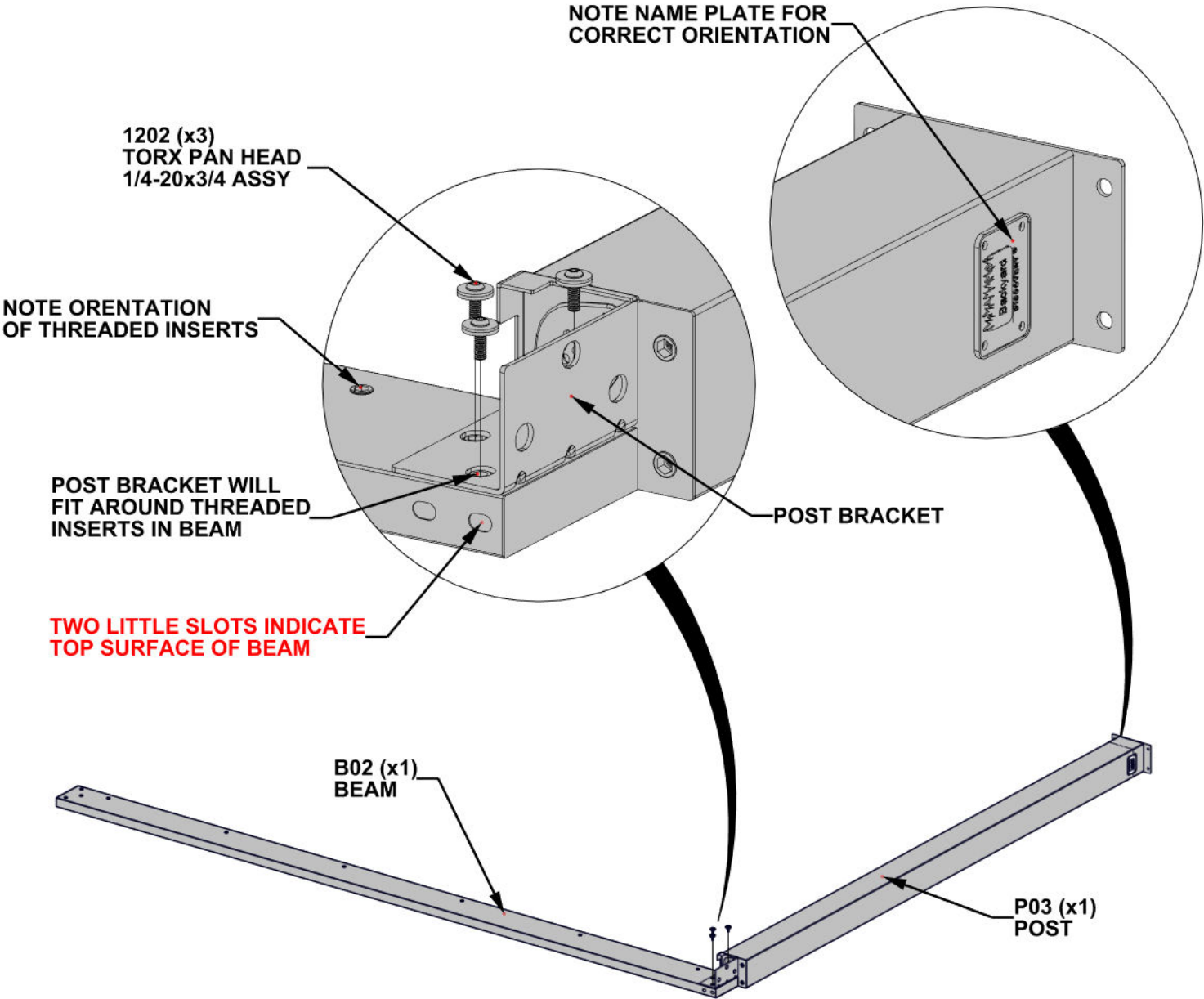
P03 POST - A4M02131  
(x1) 4 5/16"x6 3/4"x99 1/2" (110x172x2527)



B02 LEFT BEAM ASSEMBLY - A4M03479  
(x1) 1 7/16"x5 1/4"x114 7/8" (36x134x2918)

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

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

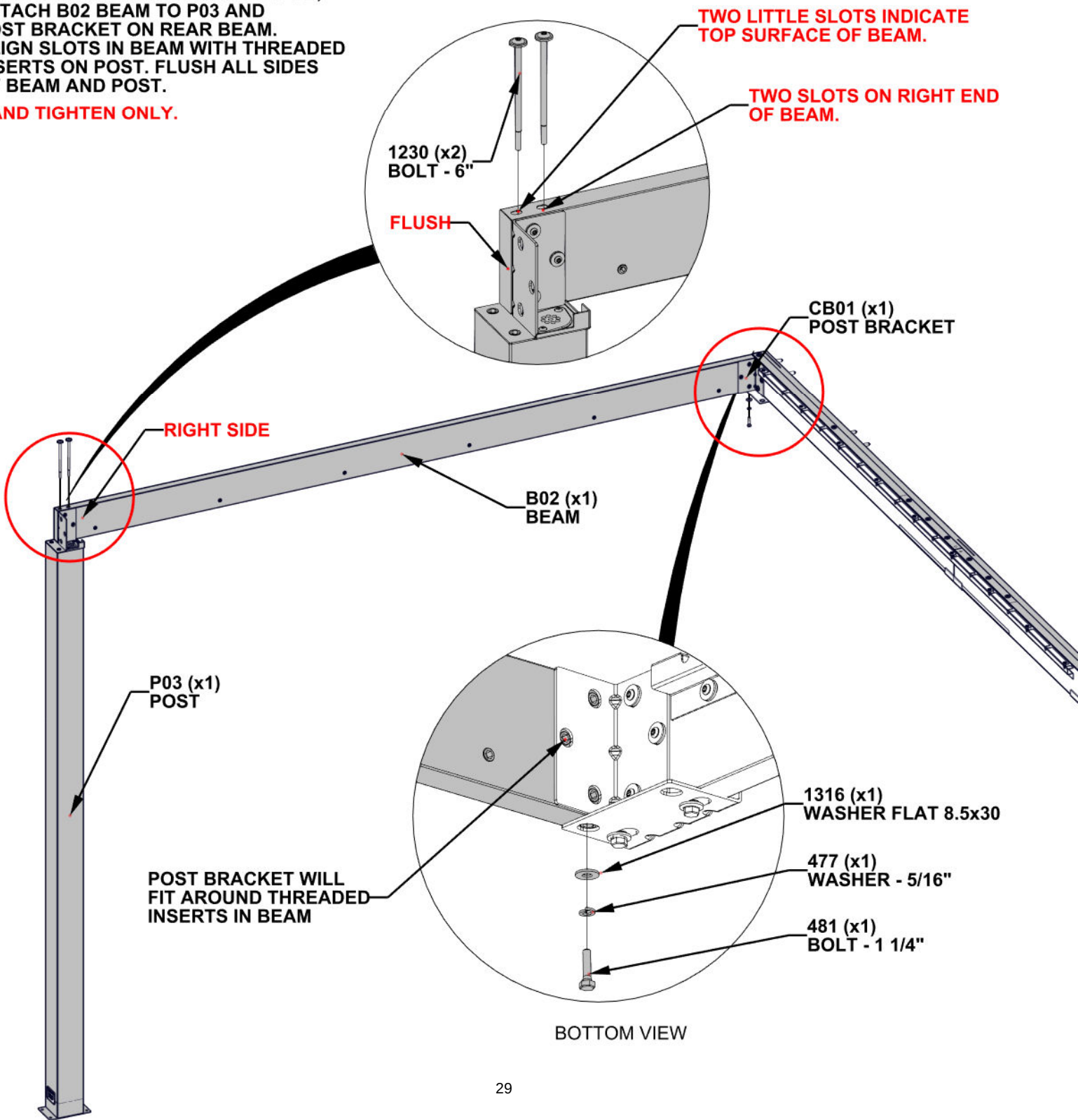




# STEP 8B - LEFT FRAME ASSEMBLY

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

- WITH AT LEAST TWO EXTRA PEOPLE, ATTACH B02 BEAM TO P03 AND POST BRACKET ON REAR BEAM.
- ALIGN SLOTS IN BEAM WITH THREADED INSERTS ON POST. FLUSH ALL SIDES OF BEAM AND POST.
- HAND TIGHTEN ONLY.

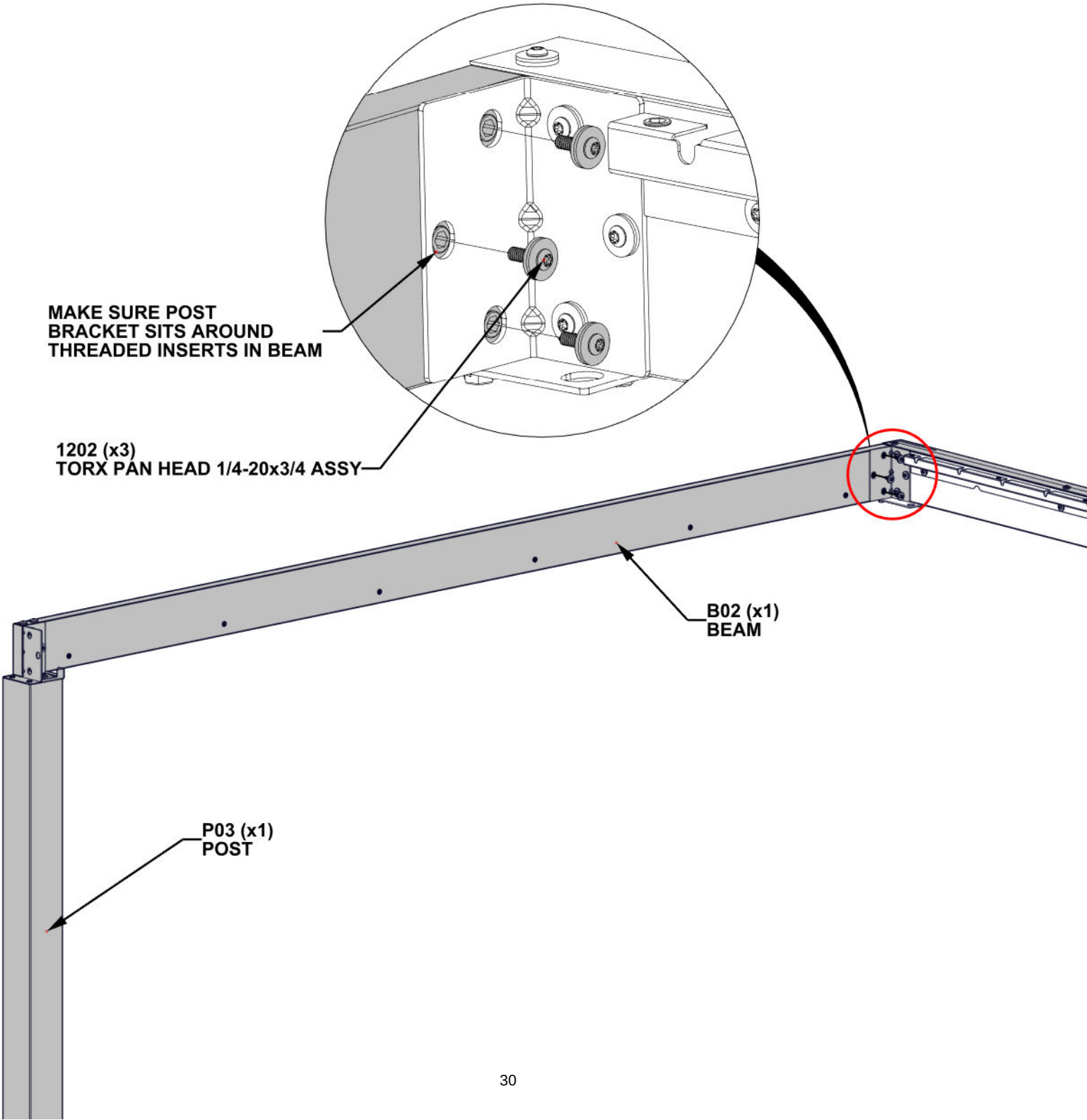




# STEP 8C - LEFT FRAME ASSEMBLY

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

- HAND TIGHTEN ONLY.



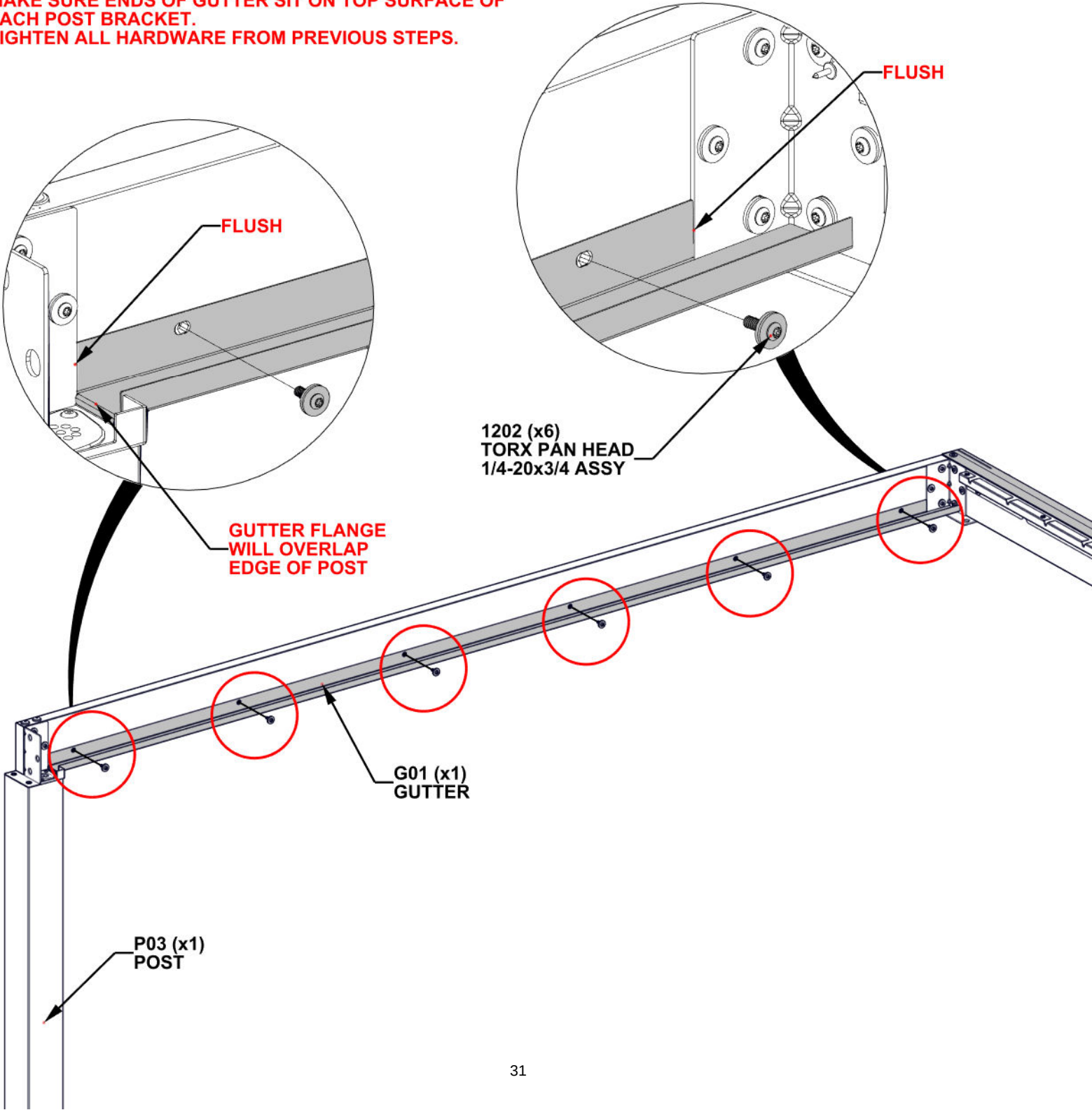
# STEP 9 - LEFT GUTTER ATTACHMENT



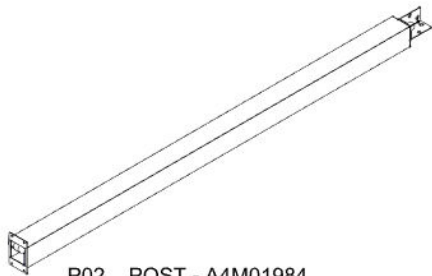
G01 GUTTER - A4M03478  
(x1) 1 9/16"x1 15/16"x1117 5/16" (40x50x2838)

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

- 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 10A - RIGHT FRAME ASSEMBLY



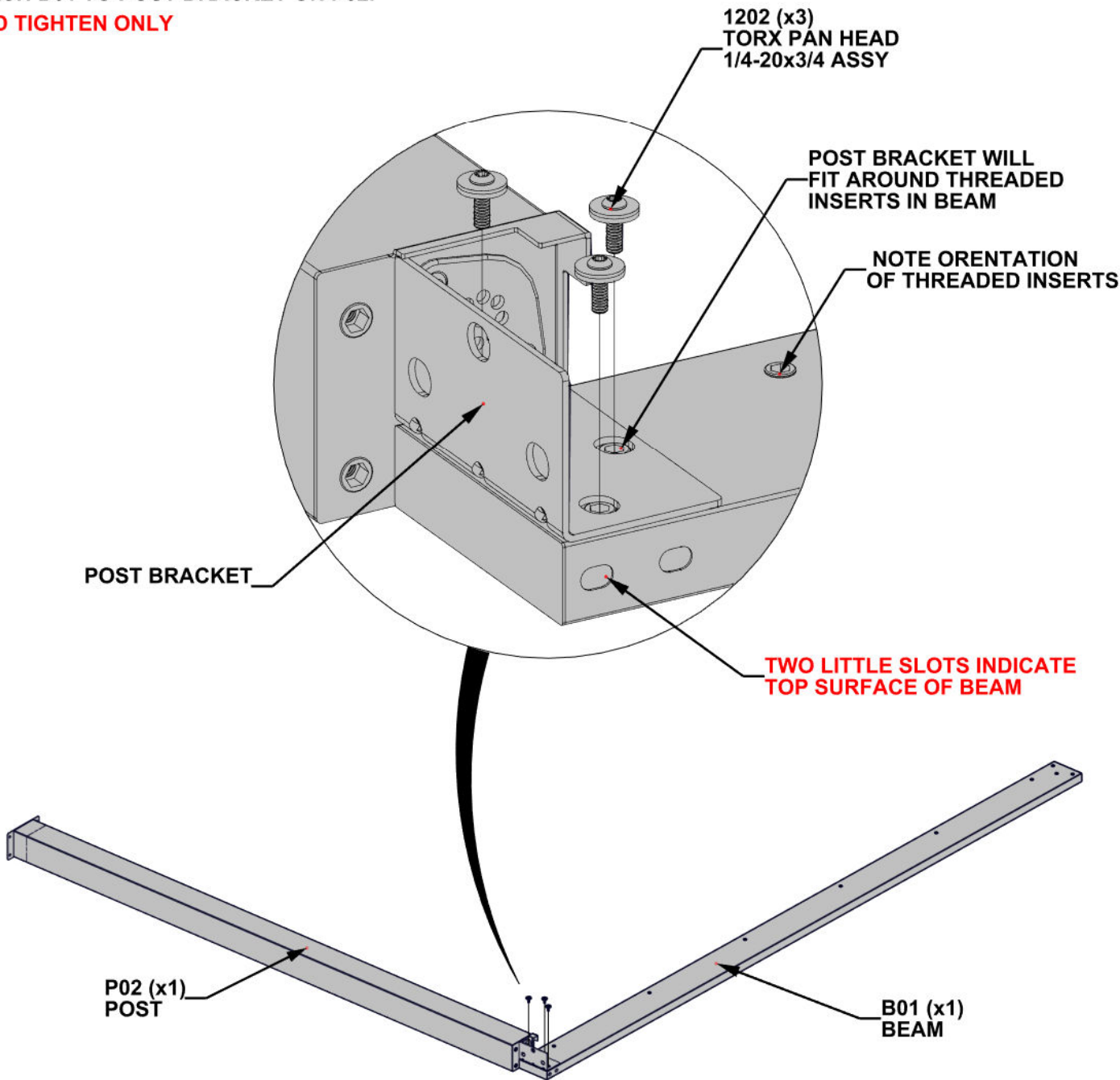
P02 POST - A4M01984  
(x1) 4 5/16"x6 3/4"x99 1/2" (110x172x2527)



B01 BEAM - A4M03480  
(x1) 1 7/16"x5 1/4"x114 7/8" (36x134x2918)

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

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

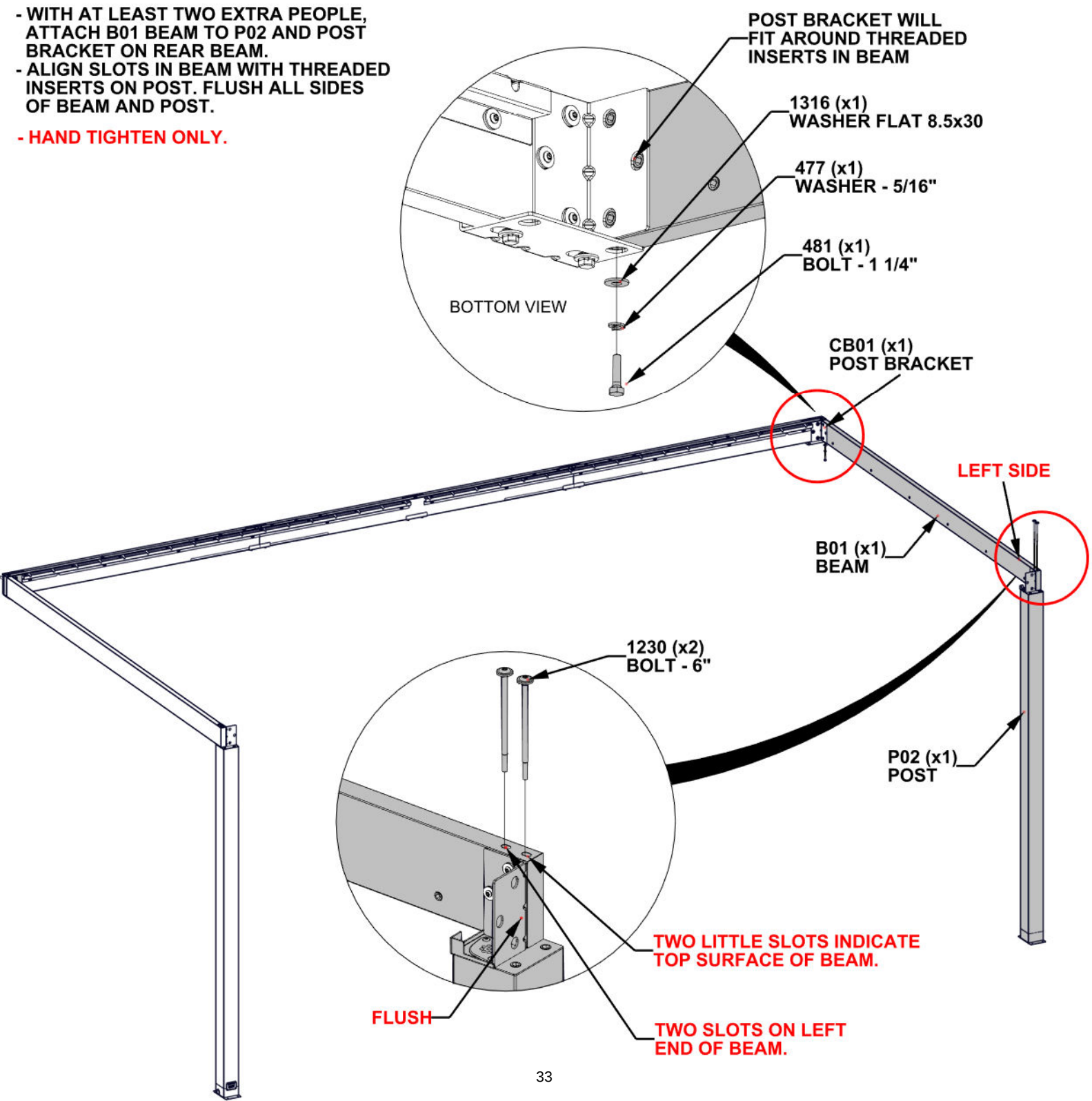


# STEP 10B - RIGHT FRAME ASSEMBLY

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

- WITH AT LEAST TWO EXTRA PEOPLE, ATTACH B01 BEAM TO P02 AND POST BRACKET ON REAR BEAM.
- ALIGN SLOTS IN BEAM WITH THREADED INSERTS ON POST. FLUSH ALL SIDES OF BEAM AND POST.

- HAND TIGHTEN ONLY.

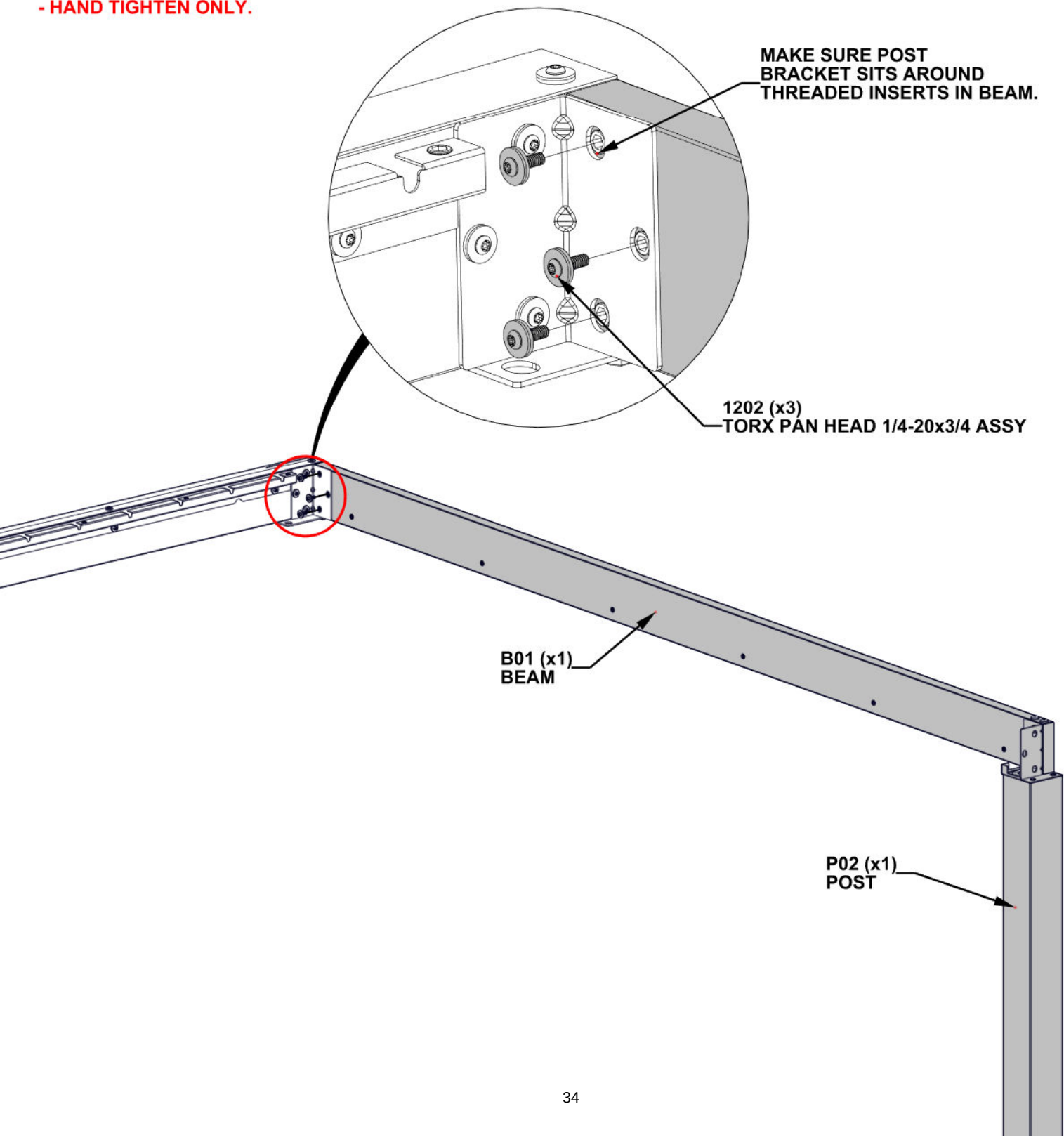




# STEP 10C - RIGHT FRAME ASSEMBLY

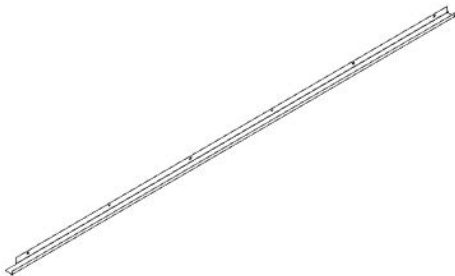
| Qty | PartNo  | Description                   |
|-----|---------|-------------------------------|
| 3   | H101202 | TORX PAN HEAD 1/4-20x3/4 ASSY |

- HAND TIGHTEN ONLY.





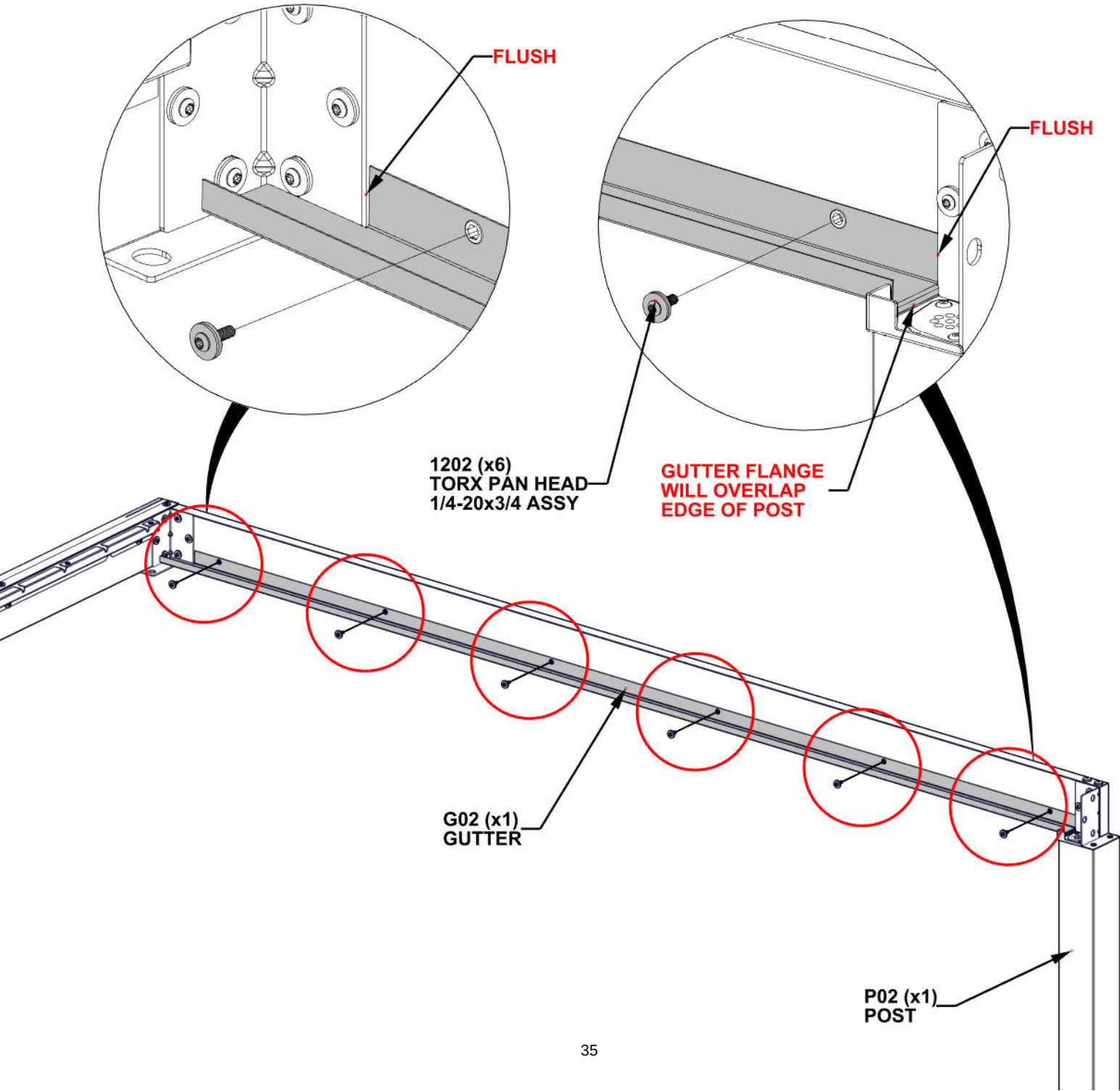
# STEP 11 - RIGHT GUTTER ATTACHMENT



G02 GUTTER - A4M02583  
(x1) 1 9/16"x1 15/16"x111" (40x50x2820)

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

- 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 12A - FRONT BEAM ASSEMBLY

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

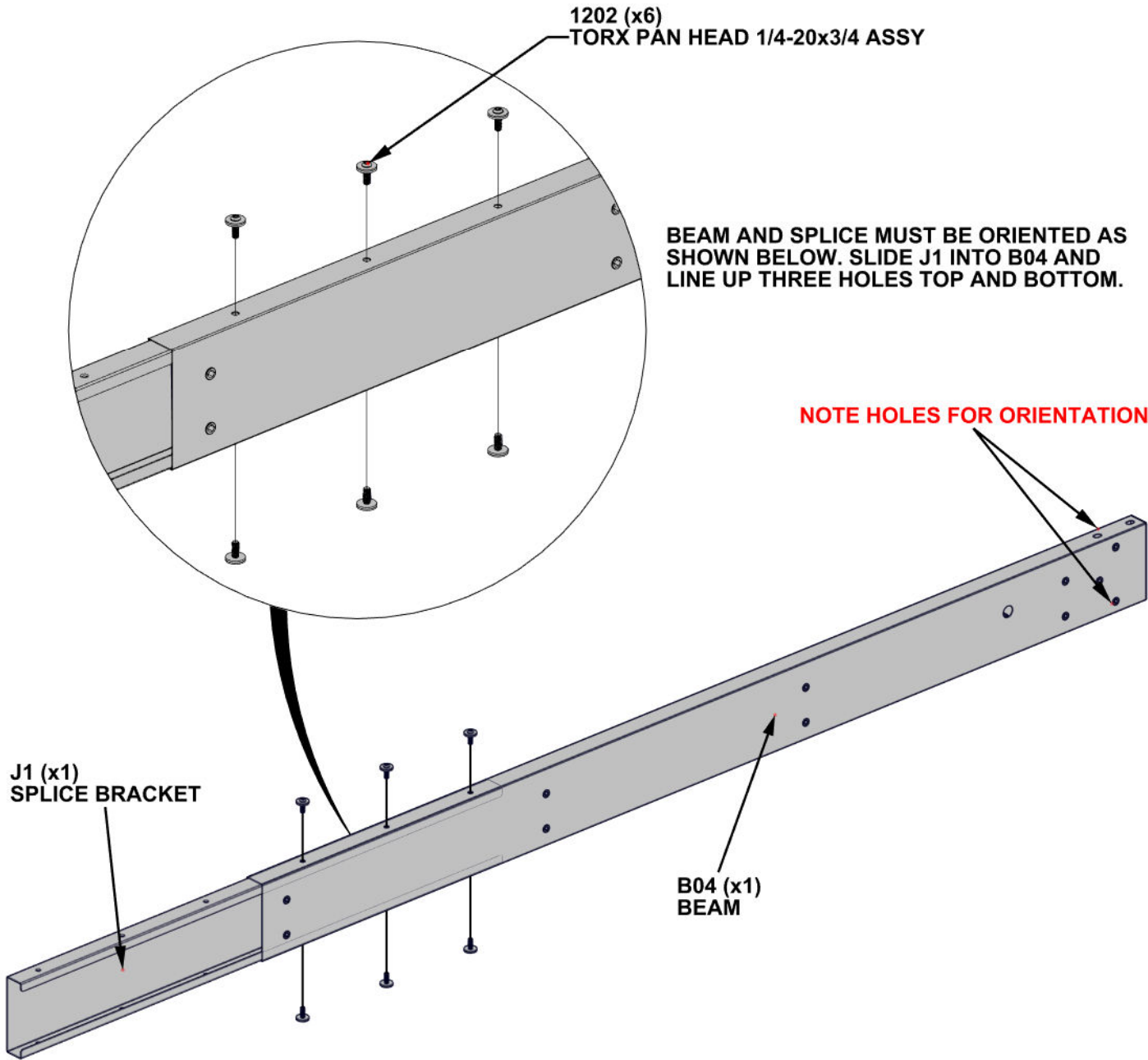


B04 BEAM - A4M02590  
(x1) 1 7/16"x5 1/4"x72 7/16" (36x134x1839)



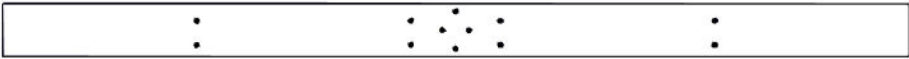
J1 SPLICE BRACKET - A4M02230  
(x1) 1 5/16"x5 3/16"x39 3/8" (33.2x131.2x1000)

- HAND TIGHTEN ONLY.



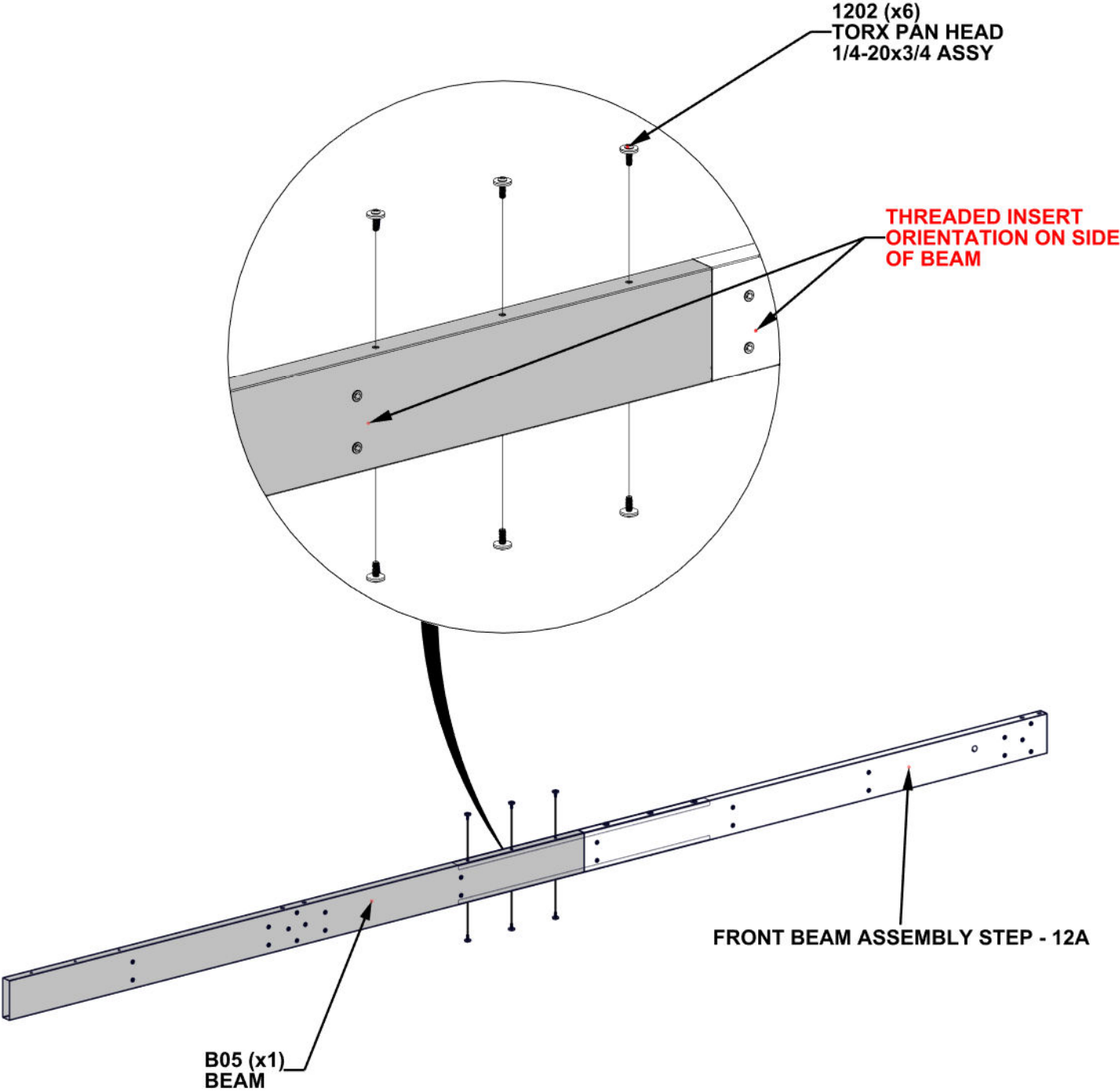
# STEP 12B - FRONT BEAM ASSEMBLY

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



B05 BEAM - A4M02591  
(x1) 1 7/16"x5 1/4"x89 7/8" (36x134x2283)

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



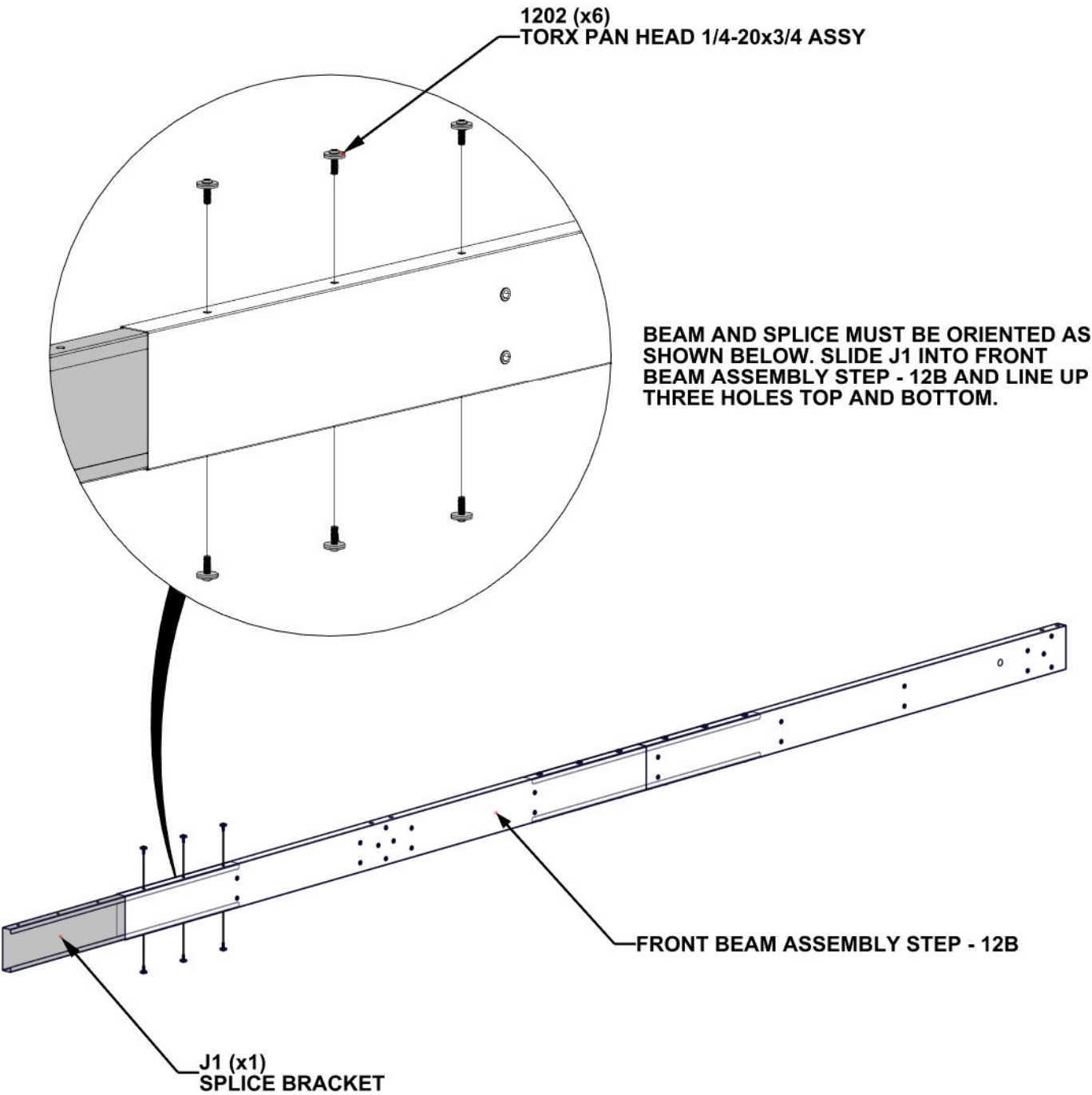
# STEP 13A - FRONT BEAM ASSEMBLY

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



J1 SPLICE BRACKET - A4M02230  
(x1) 1 5/16"x5 3/16"x39 3/8" (33.2x131.2x1000)

- HAND TIGHTEN ONLY.



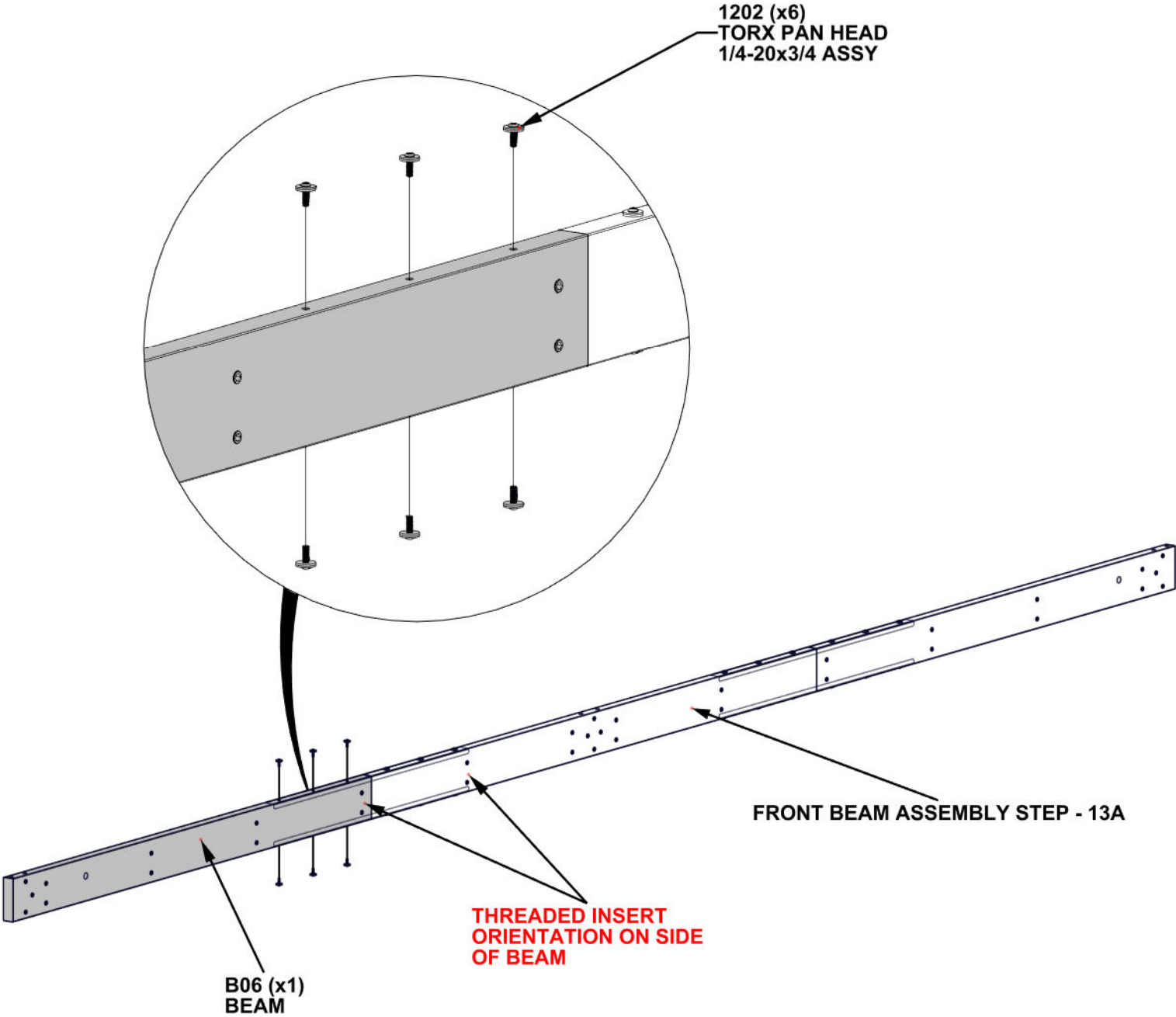
# STEP 13B - FRONT BEAM ASSEMBLY

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



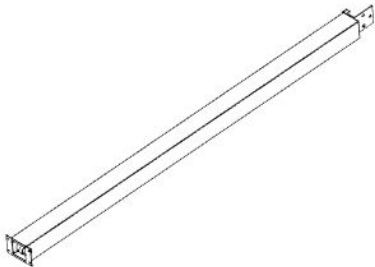
B06 BEAM - A4M02592  
(x1) 1 7/16"x5 1/4"x72 7/16" (36x134x1839)

- SLIDE B06 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



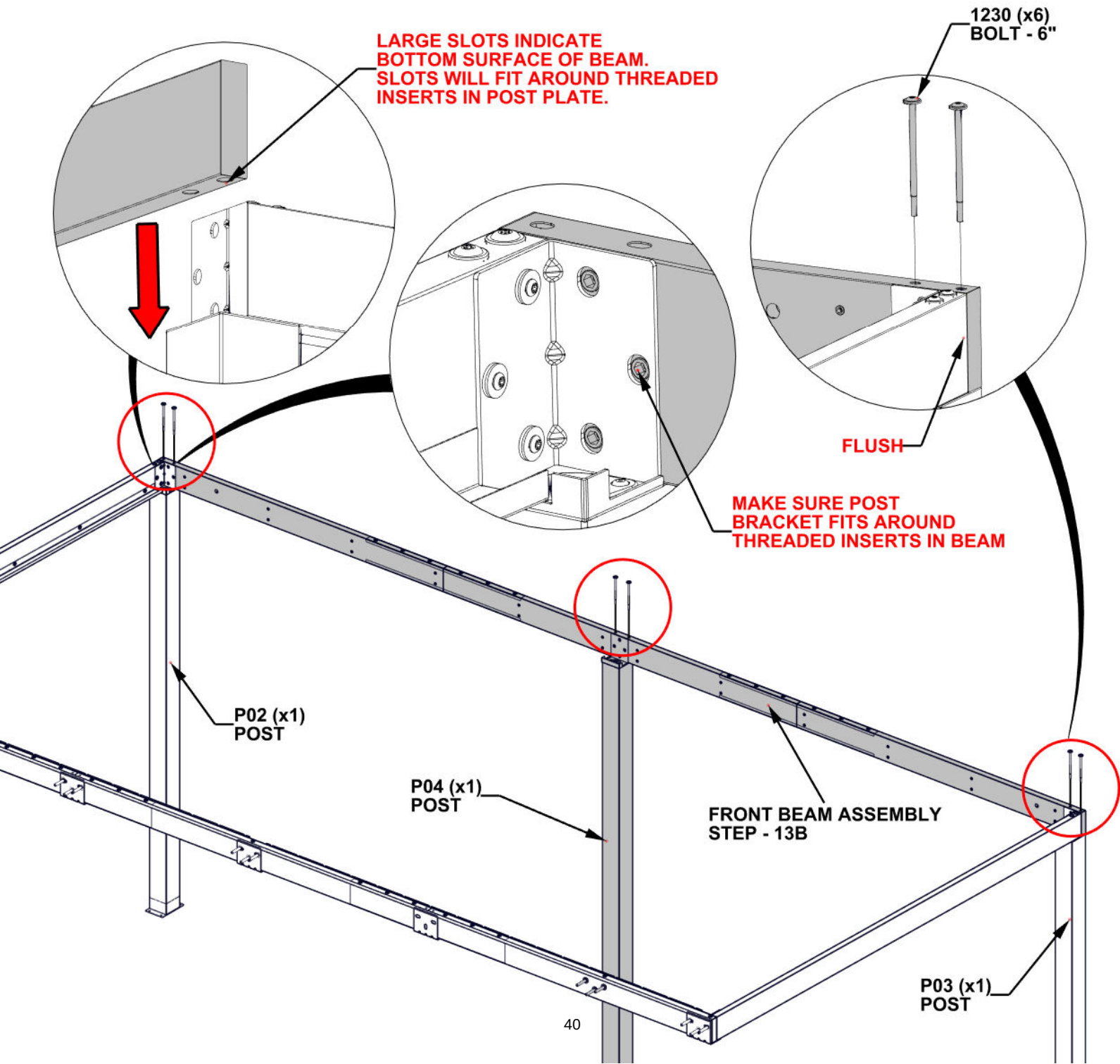
P04 POST - A4M02587  
(x1) 4 5/16"x6 3/4"x99 1/2" (110x172x2527)

| Qty | PartNo  | Description         |
|-----|---------|---------------------|
| 6   | H101230 | BOLT WH 5/16x6 S.S. |



FRONT BEAM ASSEMBLY  
STEP - 13B

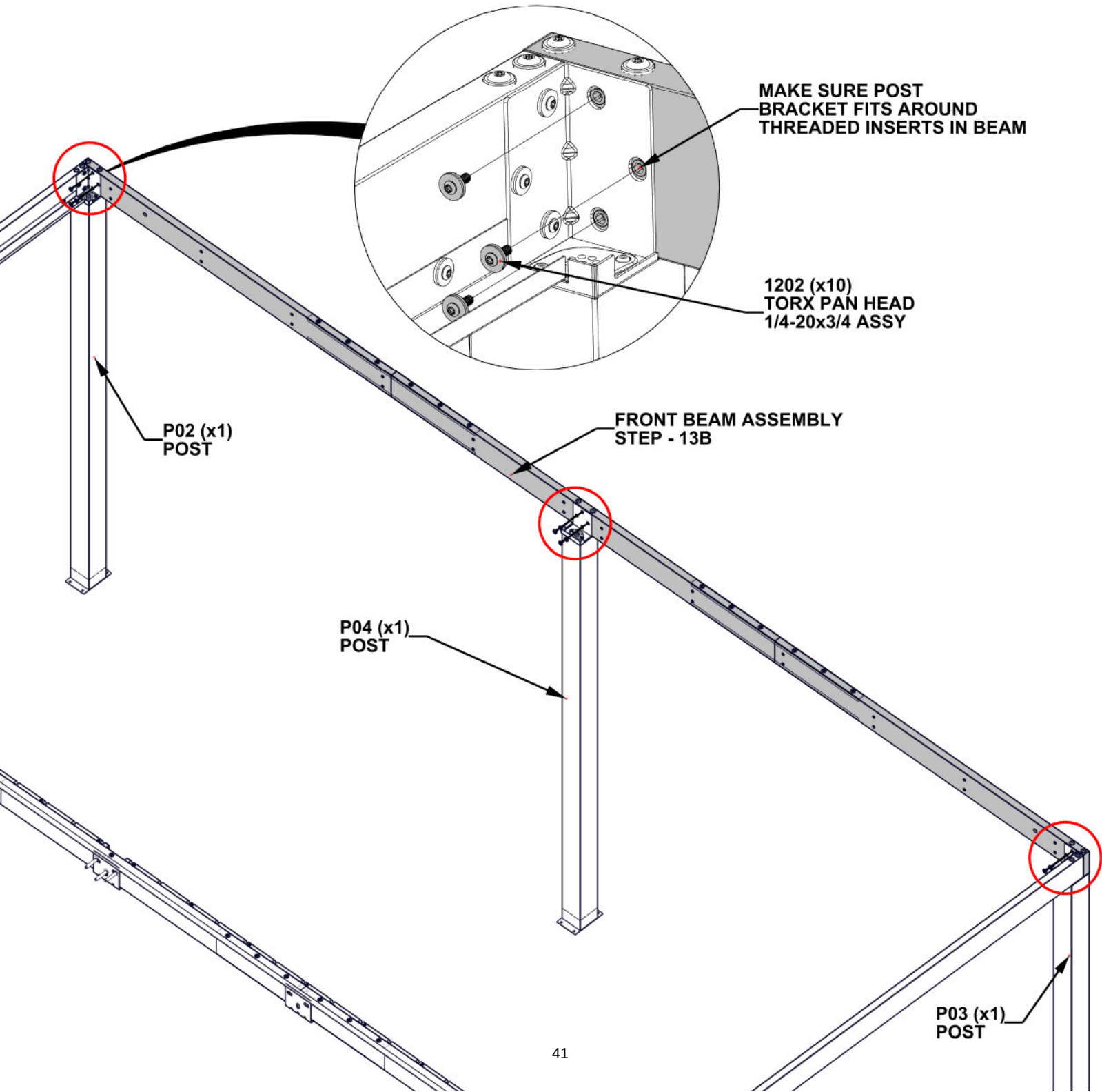
- WITH AT LEAST TWO EXTRA PEOPLE, ATTACH BEAM ASSEMBLY FROM PREVIOUS STEPS TO P02, P03 AND P04 POST.
- ALIGN SLOTS IN BEAM WITH THREADED INSERTS ON TOP PLATE. FLUSH ALL SIDES OF BEAM AND POST.
- HAND TIGHTEN ONLY.



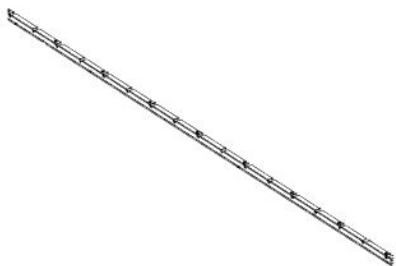
# STEP 14B - FRONT FRAME ASSEMBLY

| Qty | PartNo  | Description                   |
|-----|---------|-------------------------------|
| 10  | H101202 | TORX PAN HEAD 1/4-20x3/4 ASSY |

- TIGHTEN ALL HARDWARE FROM PREVIOUS STEPS.

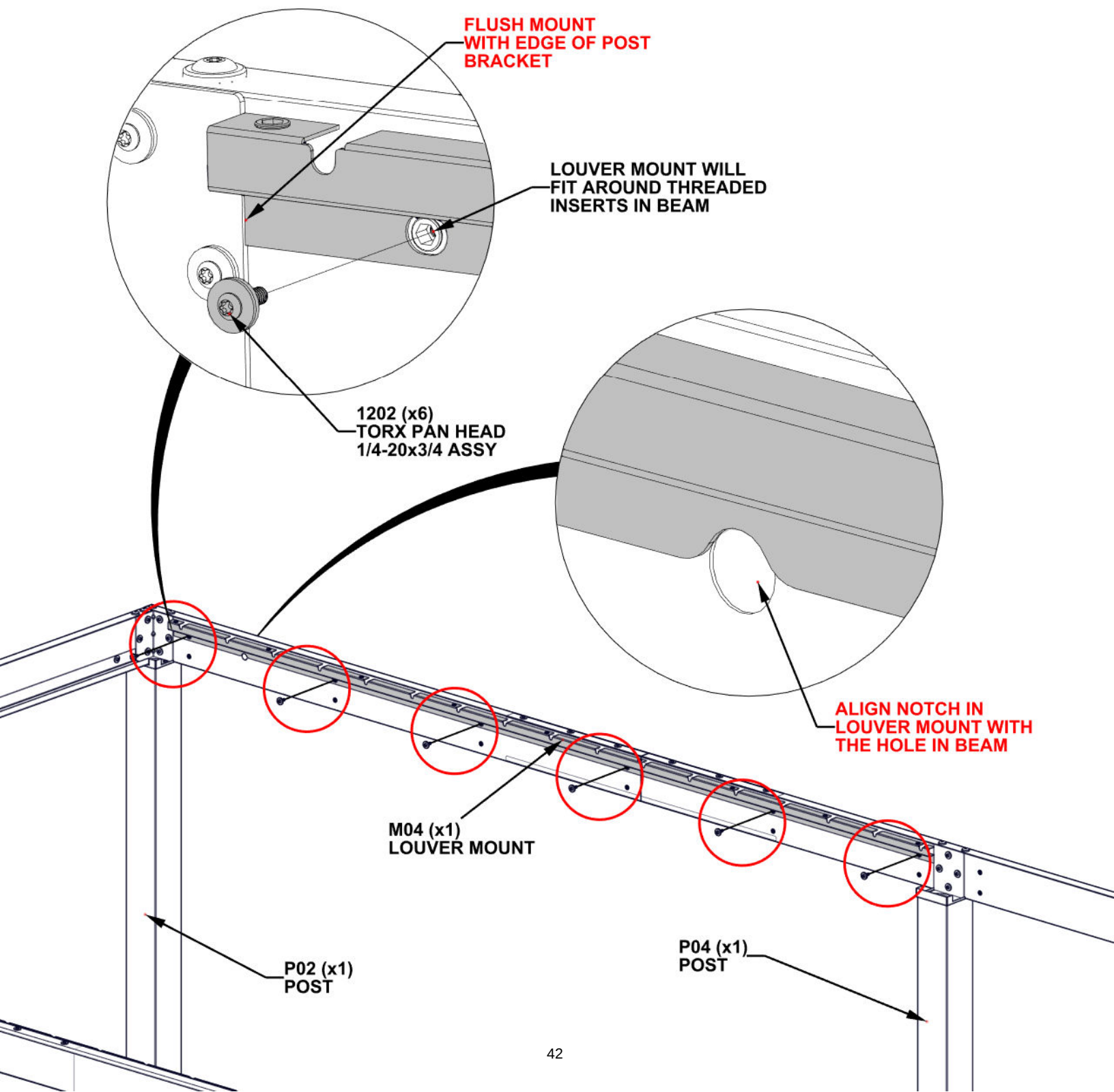


# STEP 15 - FRONT BEAM LOUVER MOUNT ATTACHMENT



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

M04 LOUVER MOUNT - A4M02596  
(x1) 1"x1 15/16"x110 3/4" (25x49x2813)



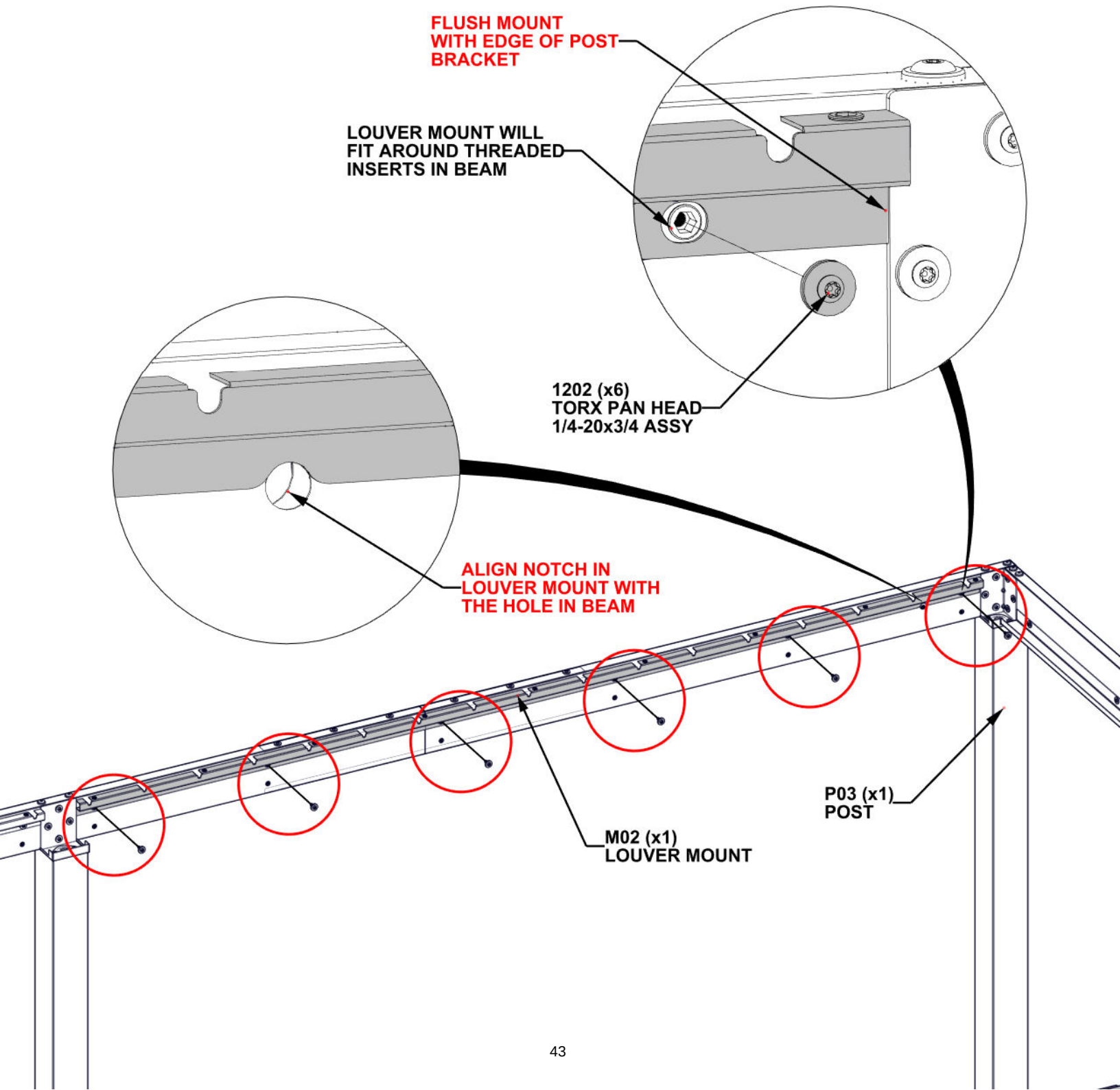


# STEP 16 - FRONT BEAM LOUVER MOUNT ATTACHMENT



M02 LOUVER MOUNT - A4M02594  
(x1) 1"x1 15/16"x110 3/4" (25x49x2813)

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



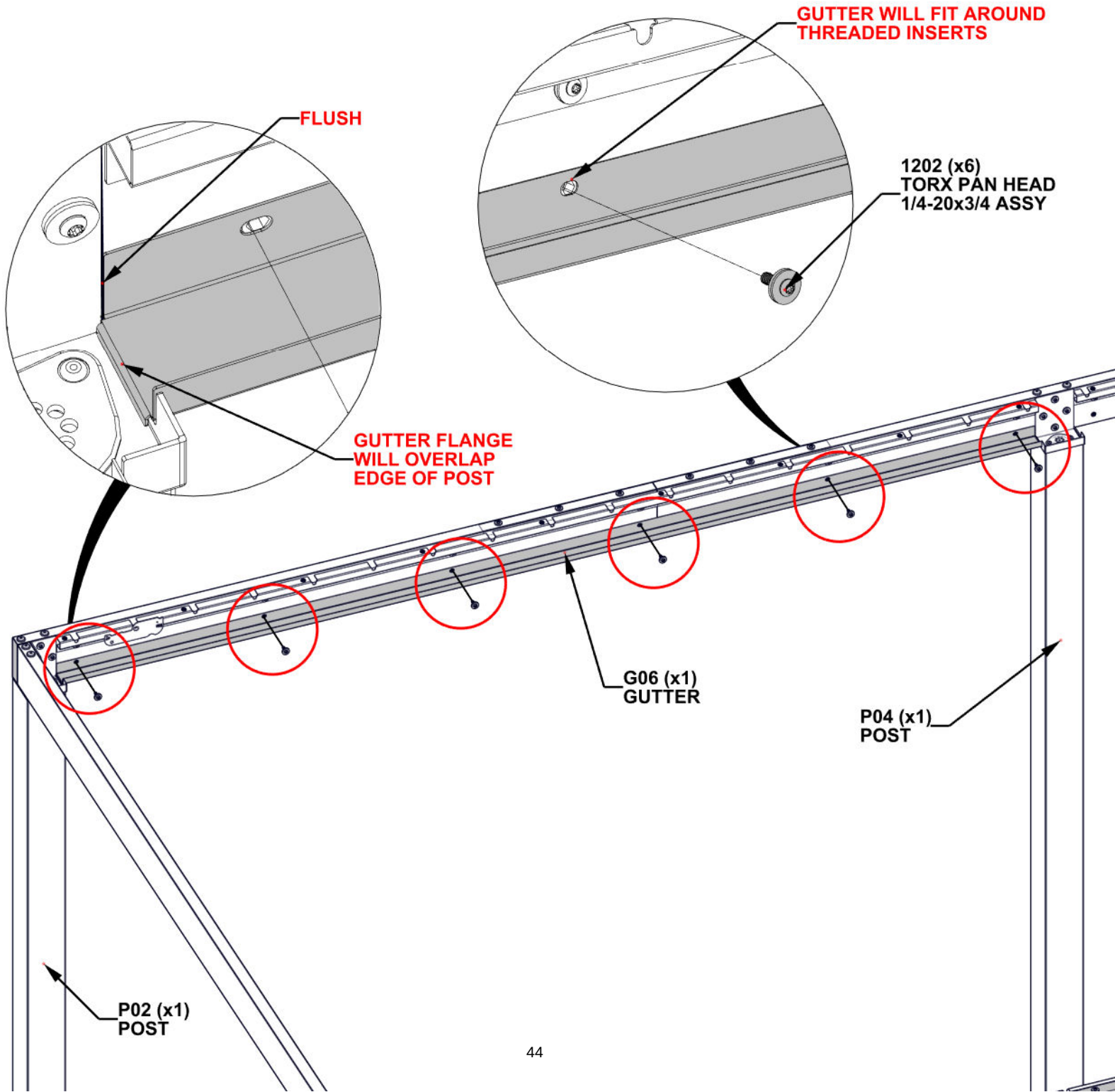
# STEP 17A - FRONT BEAM GUTTER ATTACHMENT



G06 GUTTER - A4M03481  
(x2) 1 9/16"x1 15/16"x111 3/4" (40x50x2839)

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

- WITH AT LEAST TWO PEOPLE ATTACH GUTTER TO BEAM.
- MAKE SURE ENDS OF GUTTER SIT ON TOP SURFACE OF EACH POST BRACKET.





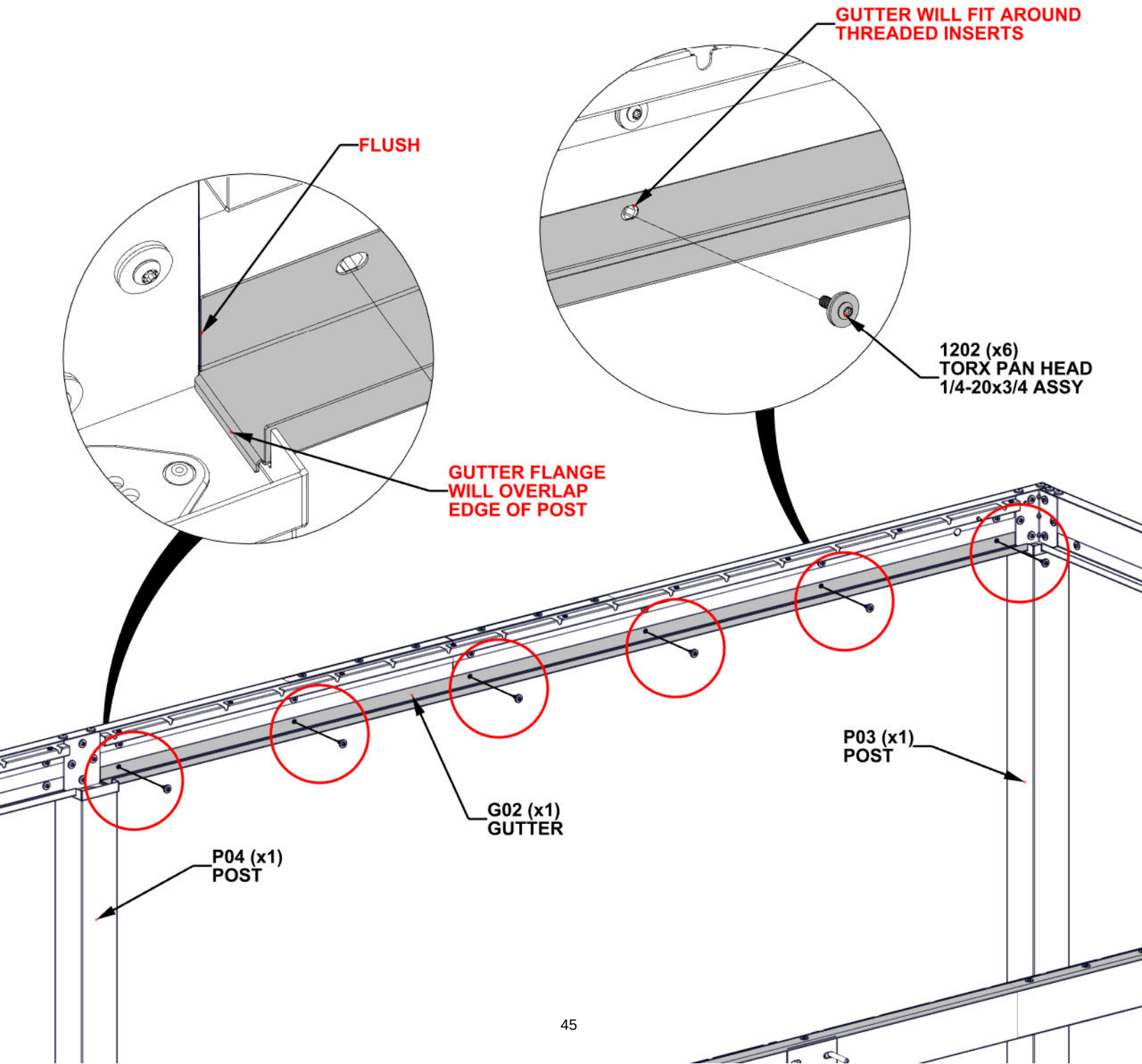
# STEP 17B - FRONT BEAM GUTTER ATTACHMENT



G02 GUTTER - A4M02583  
(x1) 1 9/16"x1 15/16"x111" (40x50x2820)

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

- WITH AT LEAST TWO PEOPLE ATTACH GUTTER TO BEAM.
- MAKE SURE ENDS OF GUTTER SIT ON TOP SURFACE OF EACH POST BRACKET.



## STEP 17C - FRONT BEAM GUTTER ATTACHMENT

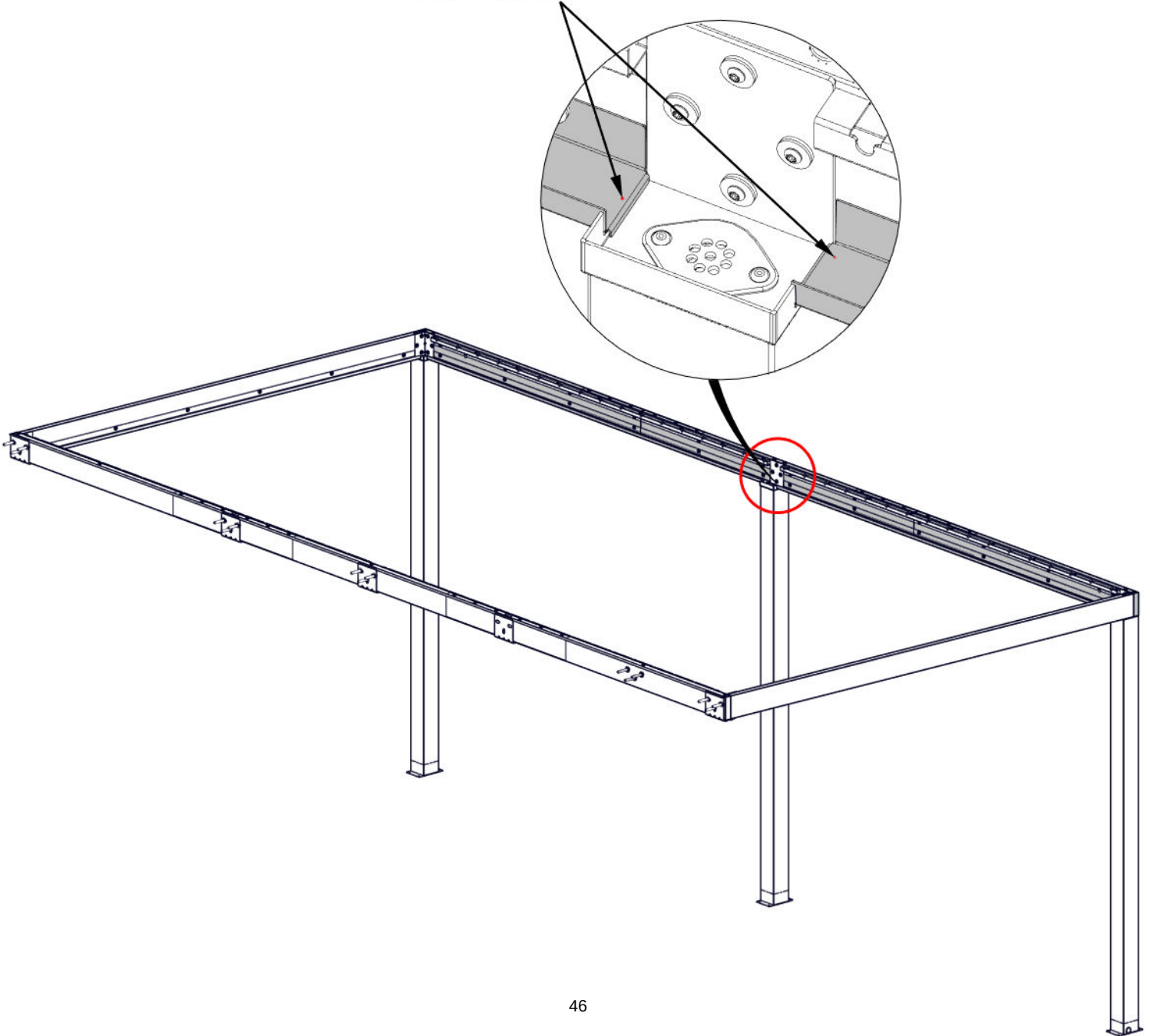


A6P00796 SILICONE  
(x1)

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

**TIP: GLOVES ARE RECOMMENDED WHEN APPLYING SILICONE.  
MAKE SURE SURFACE OF GUTTER IS CLEAN, DRY, AND FREE OF ANY DIRT/DEBRIS.**

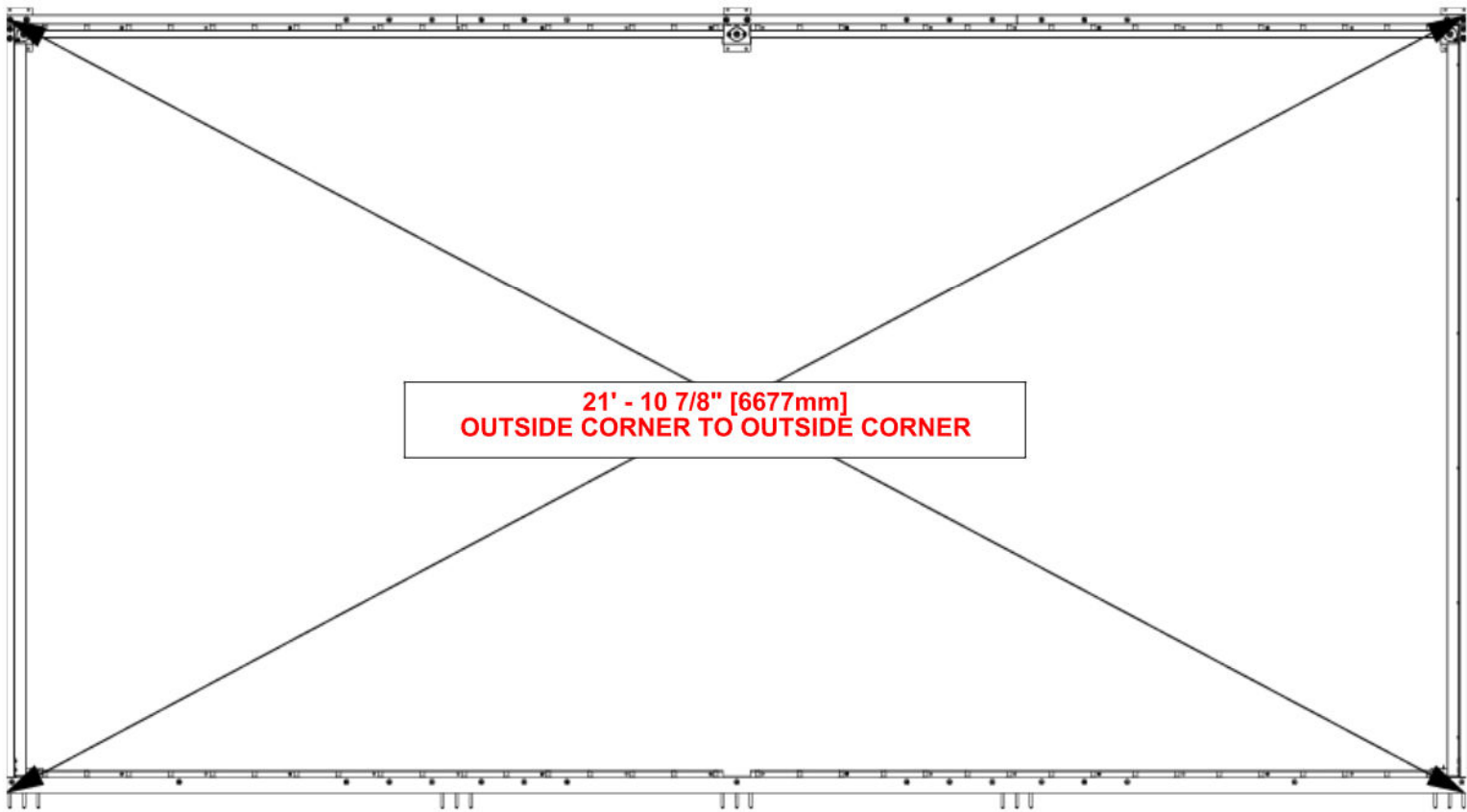
**APPLY A FINE BEAD OF  
SILICONE TO PREVENT WATER  
FROM LEAKING**



# 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**



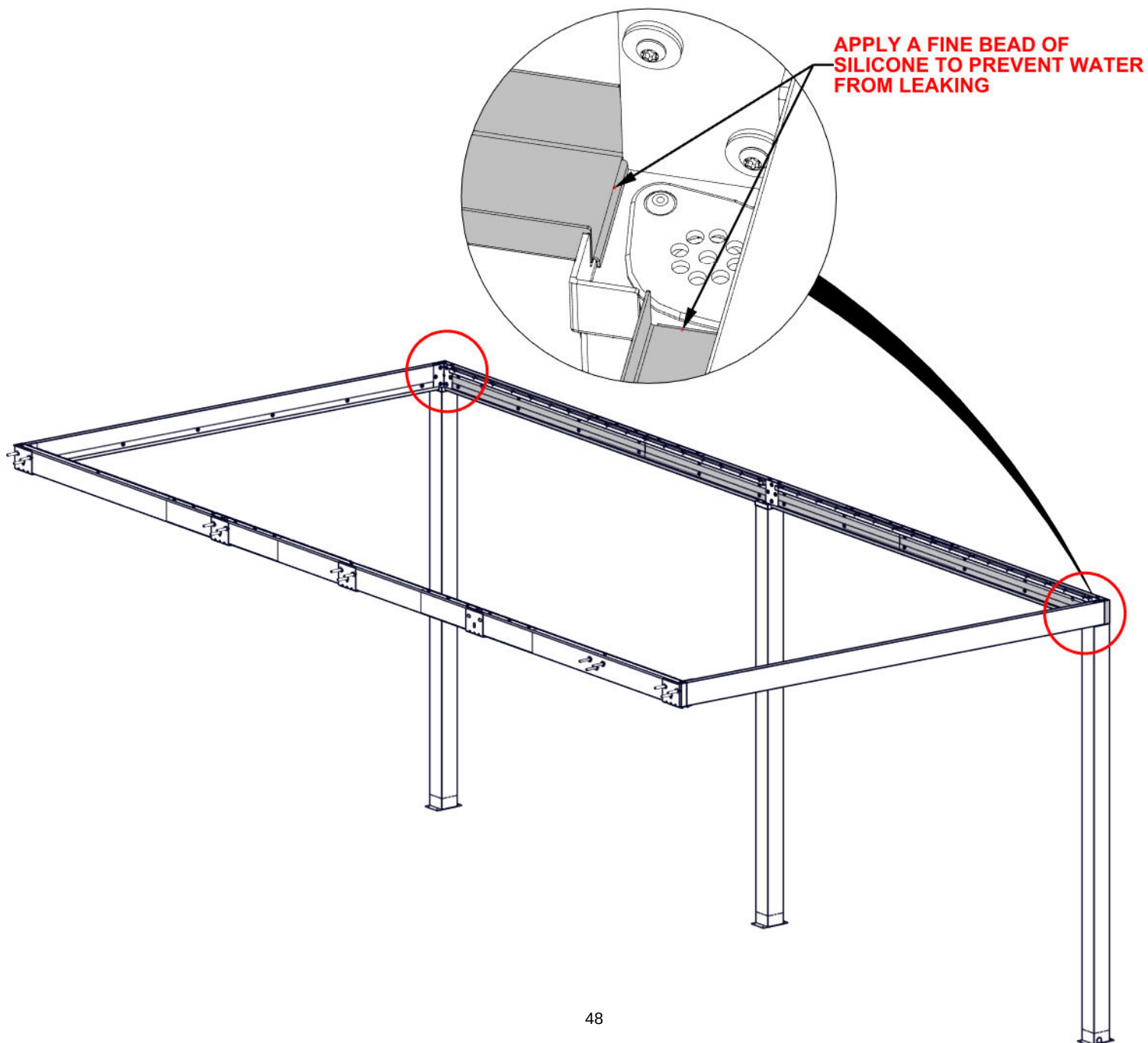
## STEP 19 - GUTTER SEALANT



A6P00796 SILICONE  
(x1)

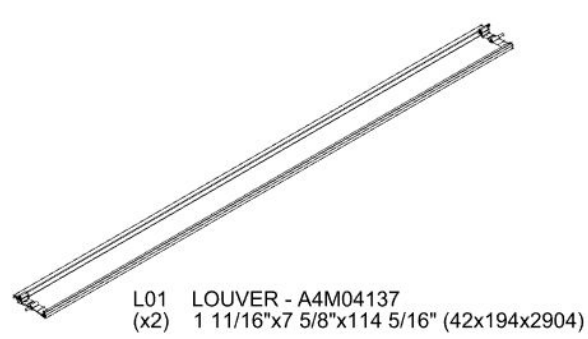
- APPLY A FINE BEAD OF SILICONE ALONG INSIDE SURFACE OF GUTTER WHERE GUTTER PIECES MEET POST.
- SMOOTH SILICONE, WIPING EXCESS USING A RAG OR PAPER TOWEL.
- REPEAT THIS STEP FOR ALL GUTTER ATTACHMENT POINTS AT EACH POST.

**TIP: GLOVES ARE RECOMMENDED WHEN APPLYING SILICONE.  
MAKE SURE SURFACE OF GUTTER IS CLEAN, DRY, AND FREE OF ANY DIRT/DEBRIS.**





# STEP 20 - DRIVE LOUVER ASSEMBLY



| Qty | PartNo  | Description         |
|-----|---------|---------------------|
| 8   | H100408 | SCREW PWH 8x1/2 BLK |



- DO NOT OVERTIGHTEN SCREWS.
- REPEAT THIS STEP TWO TIMES.
- FOR EASE OF ASSEMBLY, WE RECOMMEND USING SAWHORSES FOR THIS STEP.

L02 LOUVER DRIVE SIDE PLATE IS THE ONLY ONE WITH A NOTCH/HOLE

L03 (x1) LOUVER SIDE PLATE

408 (x2) SCREW - 1/2"

L02 (x1) LOUVER DRIVE SIDE PLATE

408 (x2) SCREW - 1/2"

L02 LOUVER DRIVE SIDE PLATE MUST BE INSTALLED ON THIS END OF TWO LOUVER BLADE ASSEMBLY



## STEP 21 - DRIVE LOUVER ASSEMBLY

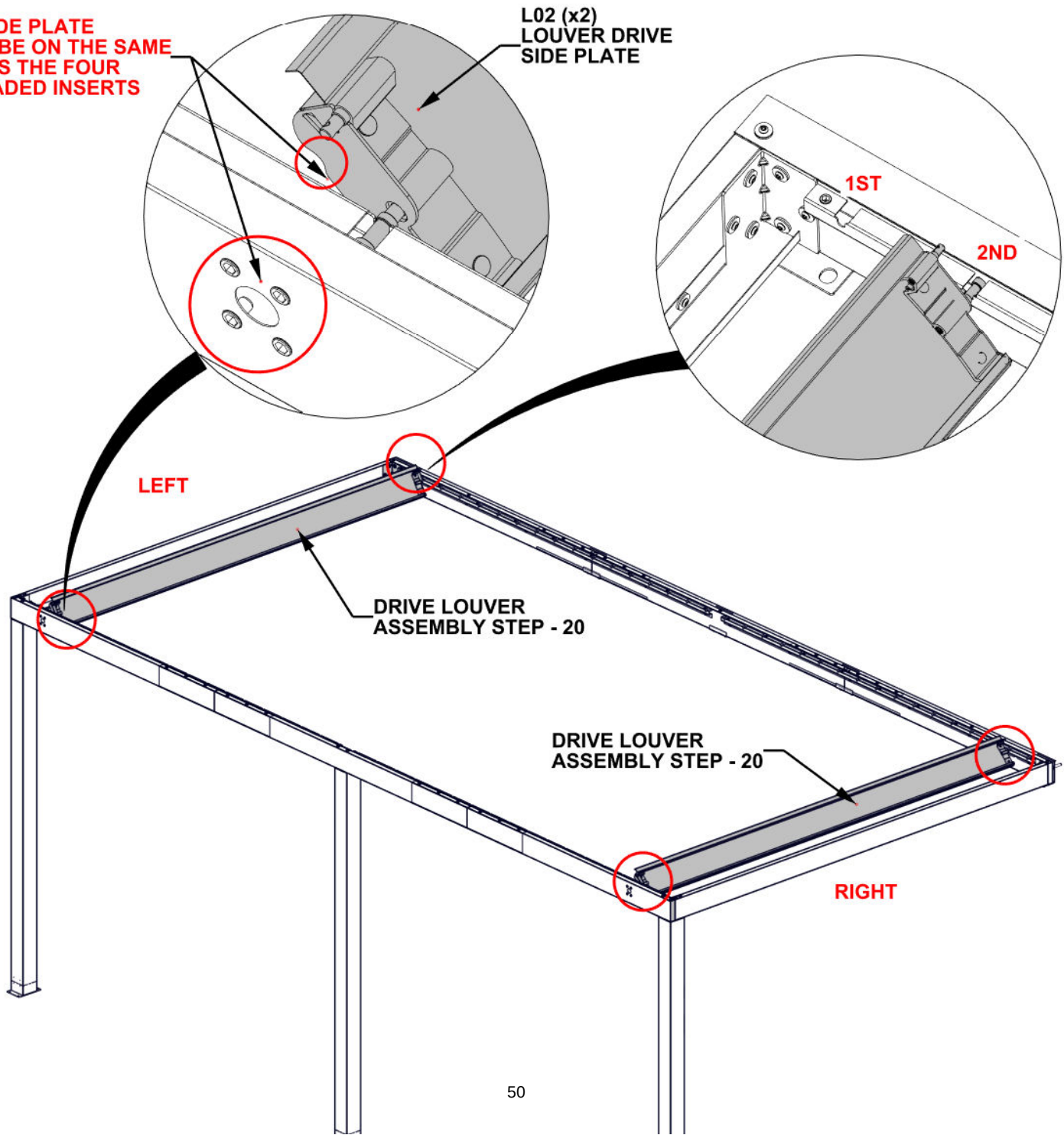


DRIVE LOUVER ASSEMBLY  
STEP - 20

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

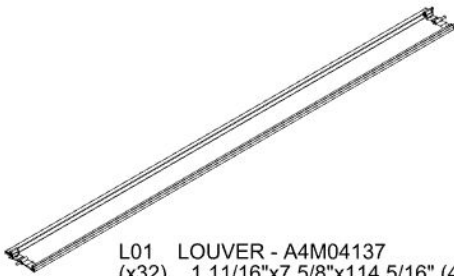
L02 SIDE PLATE  
MUST BE ON THE SAME  
END AS THE FOUR  
THREADED INSERTS

L02 (x2)  
LOUVER DRIVE  
SIDE PLATE

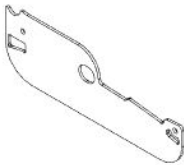


# STEP 22 - LOUVER ASSEMBLY

| Qty | PartNo  | Description         |
|-----|---------|---------------------|
| 128 | H100408 | SCREW PWH 8x1/2 BLK |



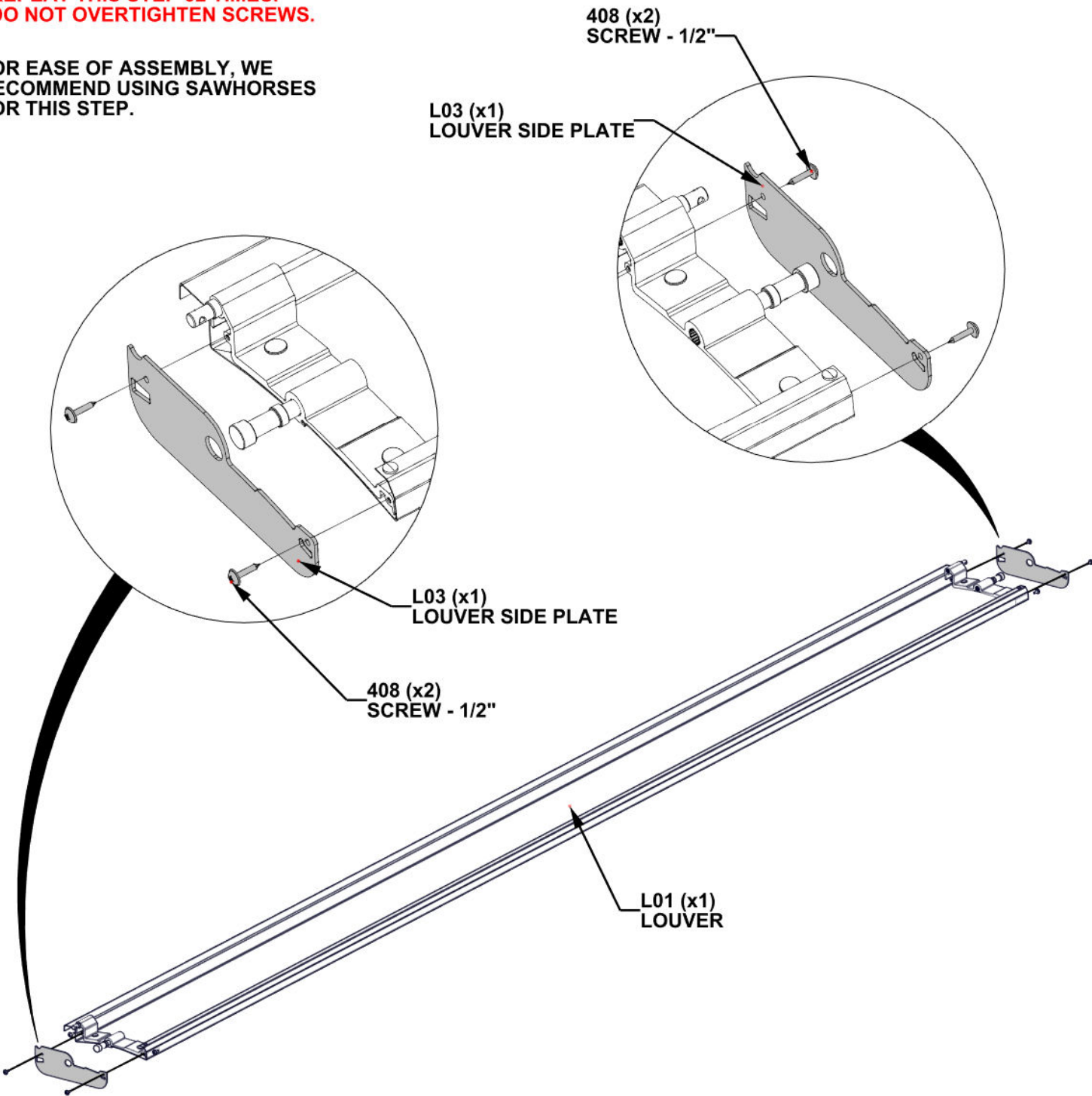
L01 LOUVER - A4M04137  
(x32) 1 11/16"x7 5/8"x114 5/16" (42x194x2904)



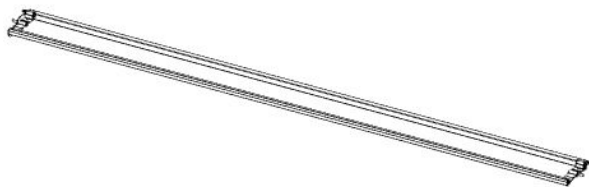
L03 LOUVER SIDE PLATE - A4M04138  
(x64) 1/16"x2 3/16"x6 9/16" (2x55x167)

- REPEAT THIS STEP 32 TIMES.  
- DO NOT OVERTIGHTEN SCREWS.

FOR EASE OF ASSEMBLY, WE  
RECOMMEND USING SAWHORSES  
FOR THIS STEP.

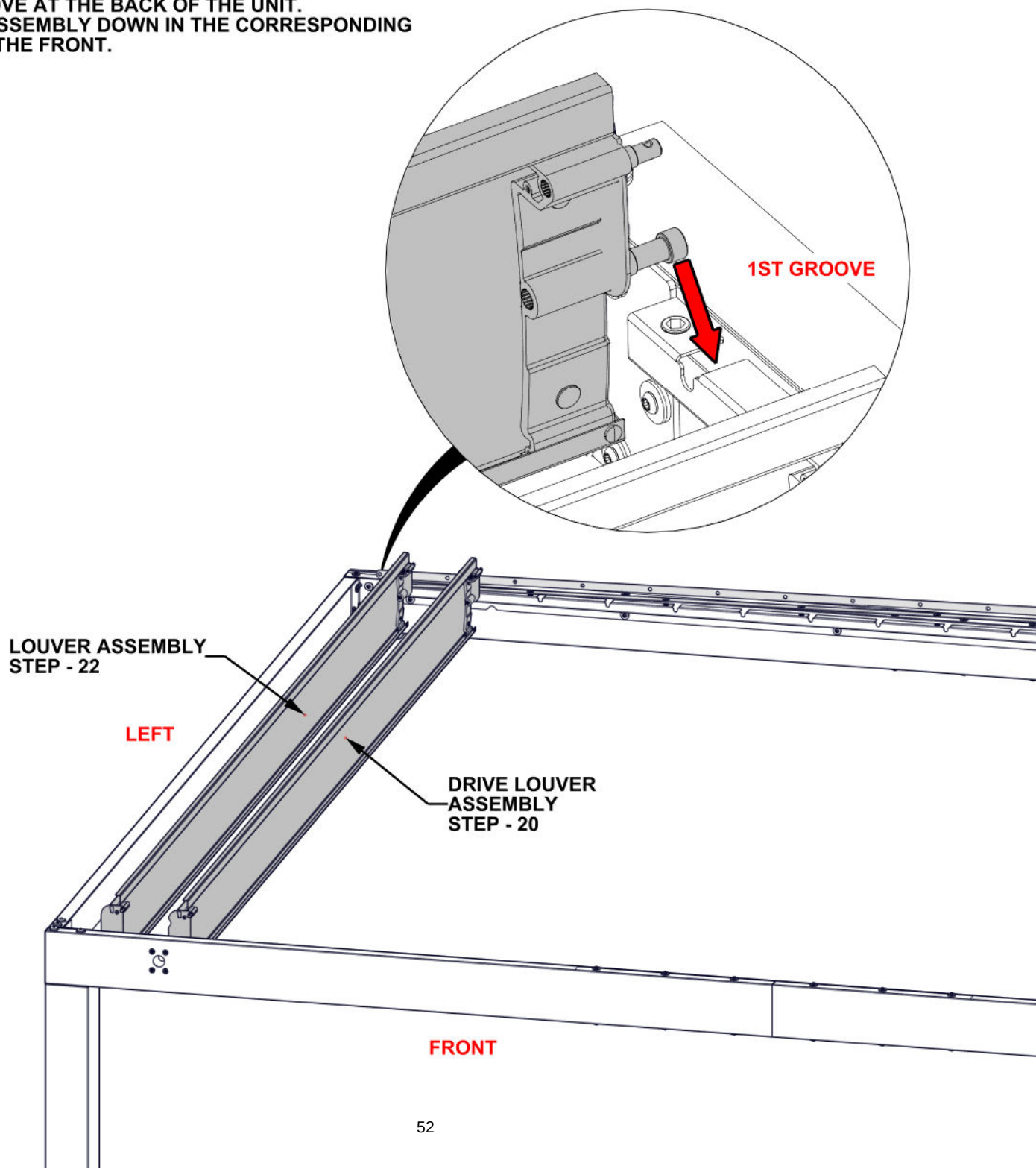


## STEP 23A - LOUVER INSTALLATION



LOUVER ASSEMBLY  
STEP - 22

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



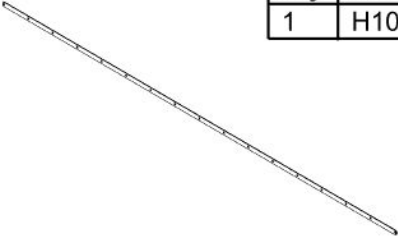


STEP 23B - LOUVER INSTALLATION

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

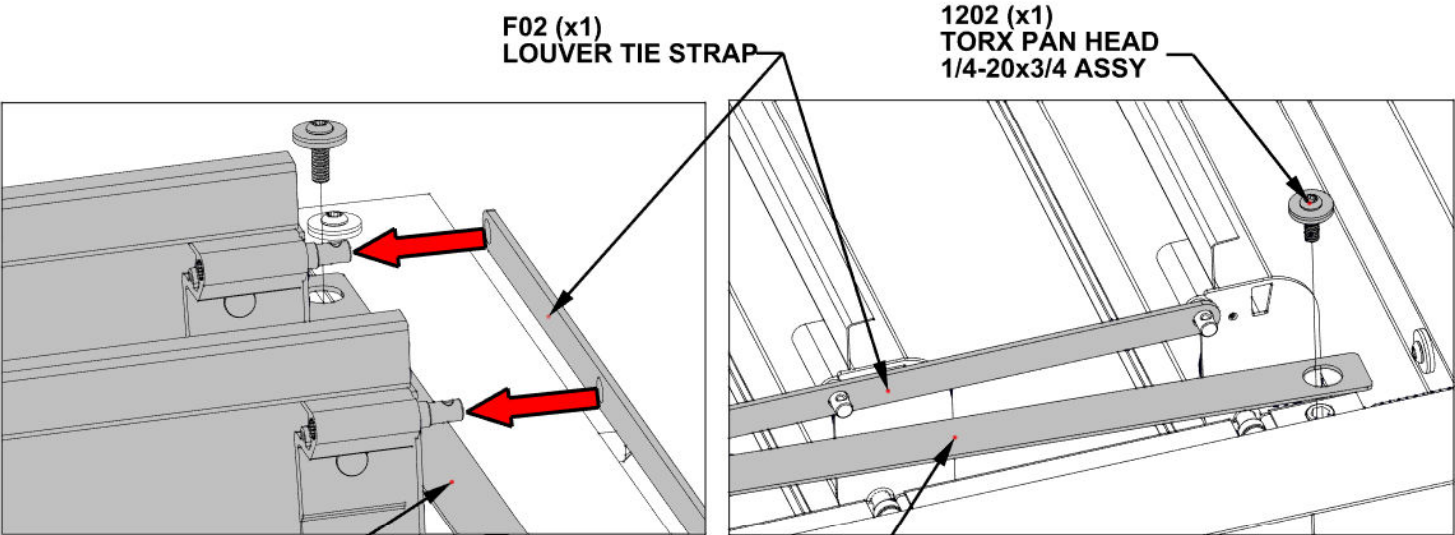


F01 FLAT BAR - A4M02585  
(x1) 1/16"x1"x110 3/4" (2x25x2813)



F02 LOUVER TIE STRAP - A4M04059  
(x1) 1/8"x13/16"x108 3/8" (3x20x2752)

- ON THE BACK SIDE, INSTALL FLAT BAR AND INSTALL ONE BOLT TO HOLD IN PLACE.
- ATTACH LOUVER TIE STRAP AND SLIDE OVER PINS ON LOUVER ASSEMBLIES.



F01 (x1)  
FLAT BAR

F02 (x1)  
LOUVER TIE STRAP

1202 (x1)  
TORX PAN HEAD  
1/4-20x3/4 ASSY

F01 (x1)  
FLAT BAR

VIEW FROM WALL

LOUVER ASSEMBLY  
STEP - 22

LEFT

DRIVE LOUVER  
ASSEMBLY  
STEP - 20

FRONT

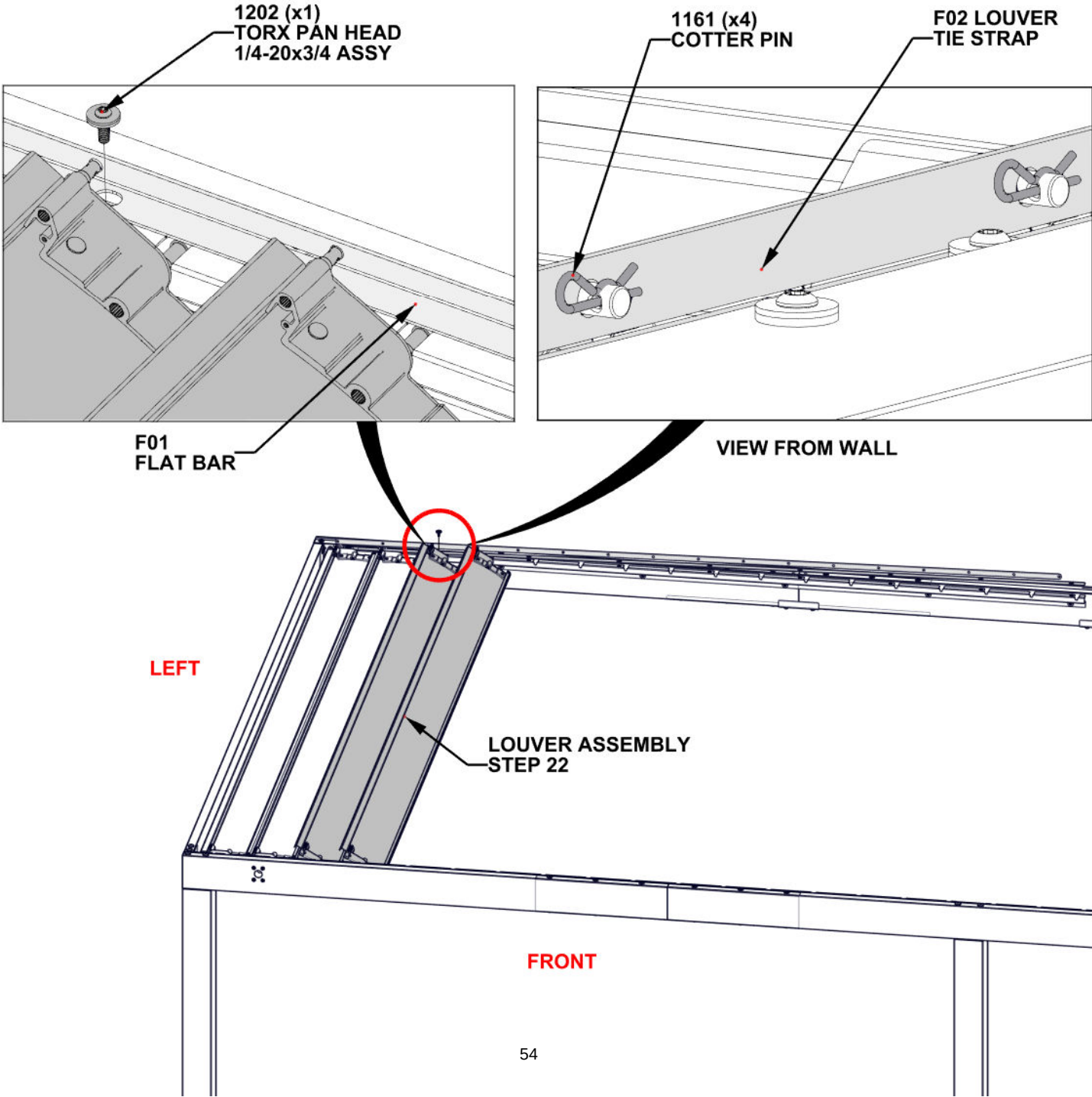
# STEP 23C - LOUVER INSTALLATION

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

H101161 COTTER PIN  
(x4)

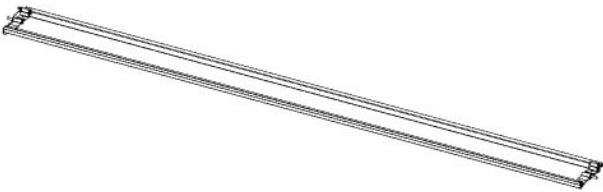
LOUVER ASSEMBLY STEP - 22  
(x2)

- 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 LOUVER BLADES ON THE BACK SIDE.





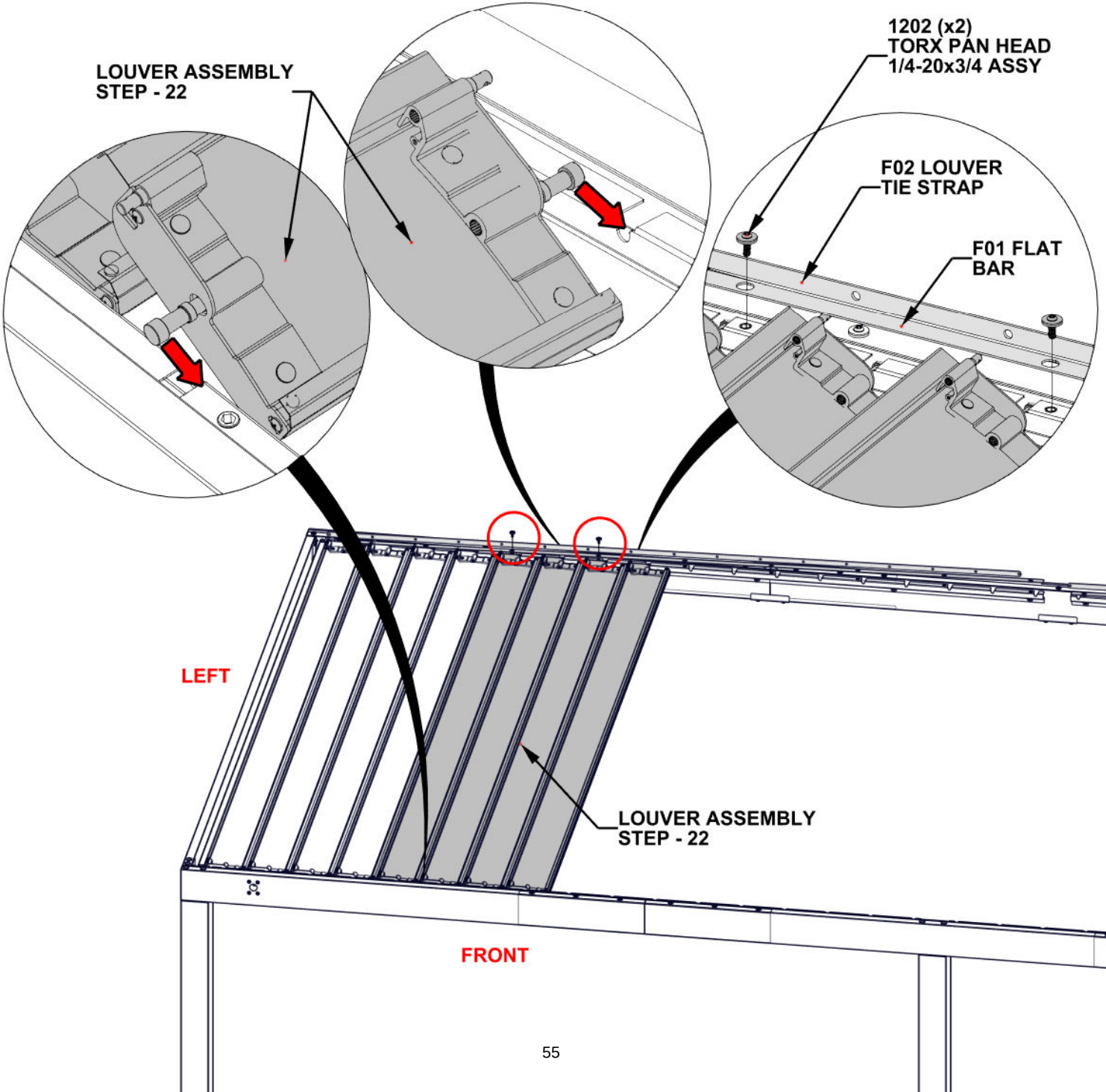
# STEP 23D - LOUVER INSTALLATION



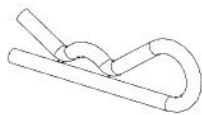
| Qty | PartNo  | Description                   |
|-----|---------|-------------------------------|
| 2   | H101202 | TORX PAN HEAD 1/4-20x3/4 ASSY |

LOUVER ASSEMBLY STEP - 22  
(x4)

- 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.

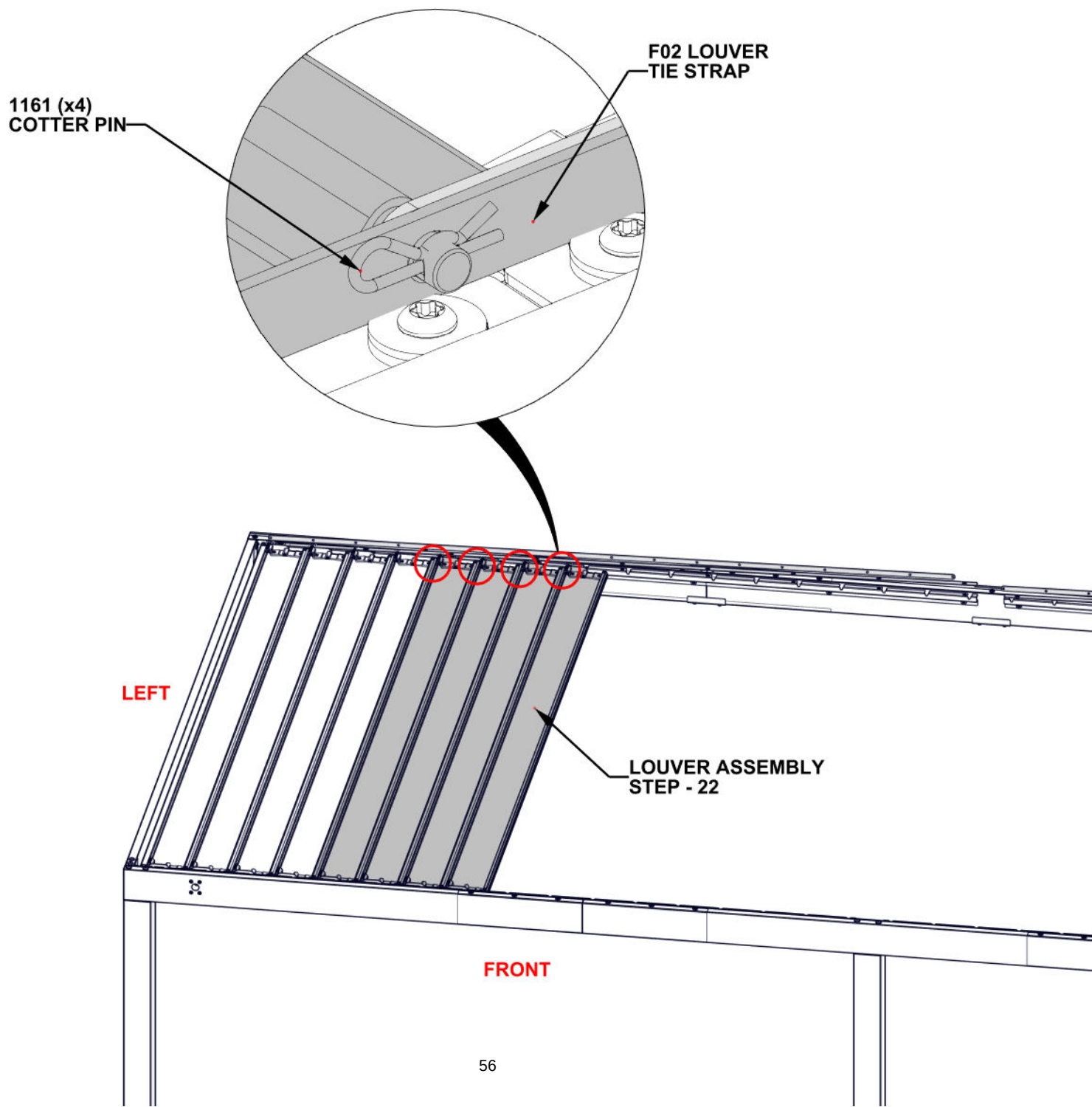


## STEP 23E - LOUVER INSTALLATION



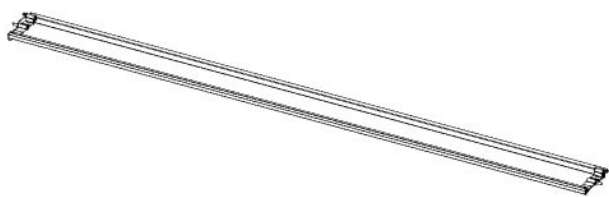
H101161 COTTER PIN  
(x4)

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





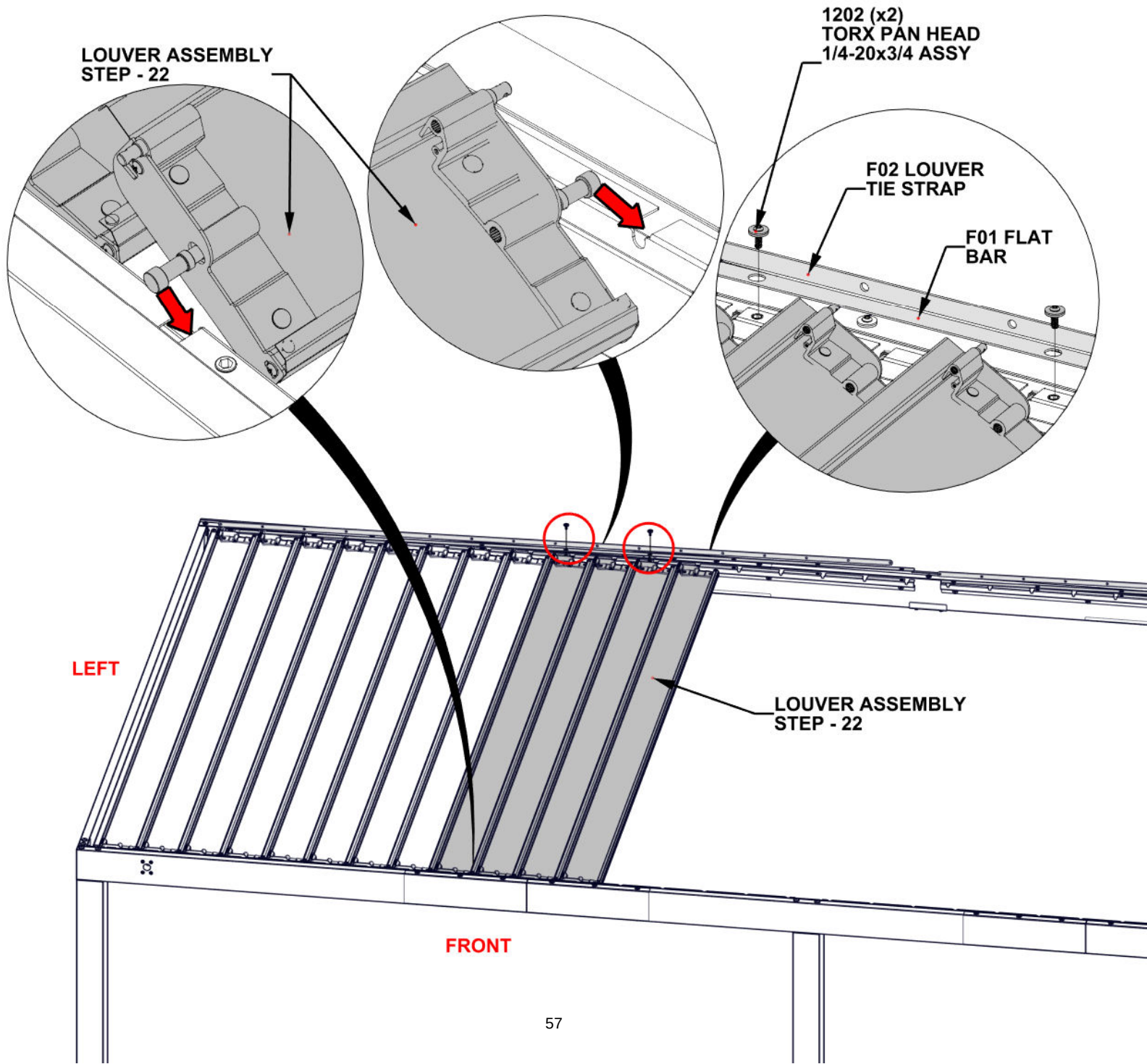
# STEP 23F - LOUVER INSTALLATION



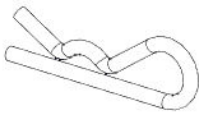
LOUVER ASSEMBLY STEP - 22  
(x4)

| 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.
- **MAKE SURE ALL LOUVER BLADE ASSEMBLIES ARE ORIENTED IN THE SAME DIRECTION.**
- ATTACH FLAT BAR WITH TWO BOLTS.

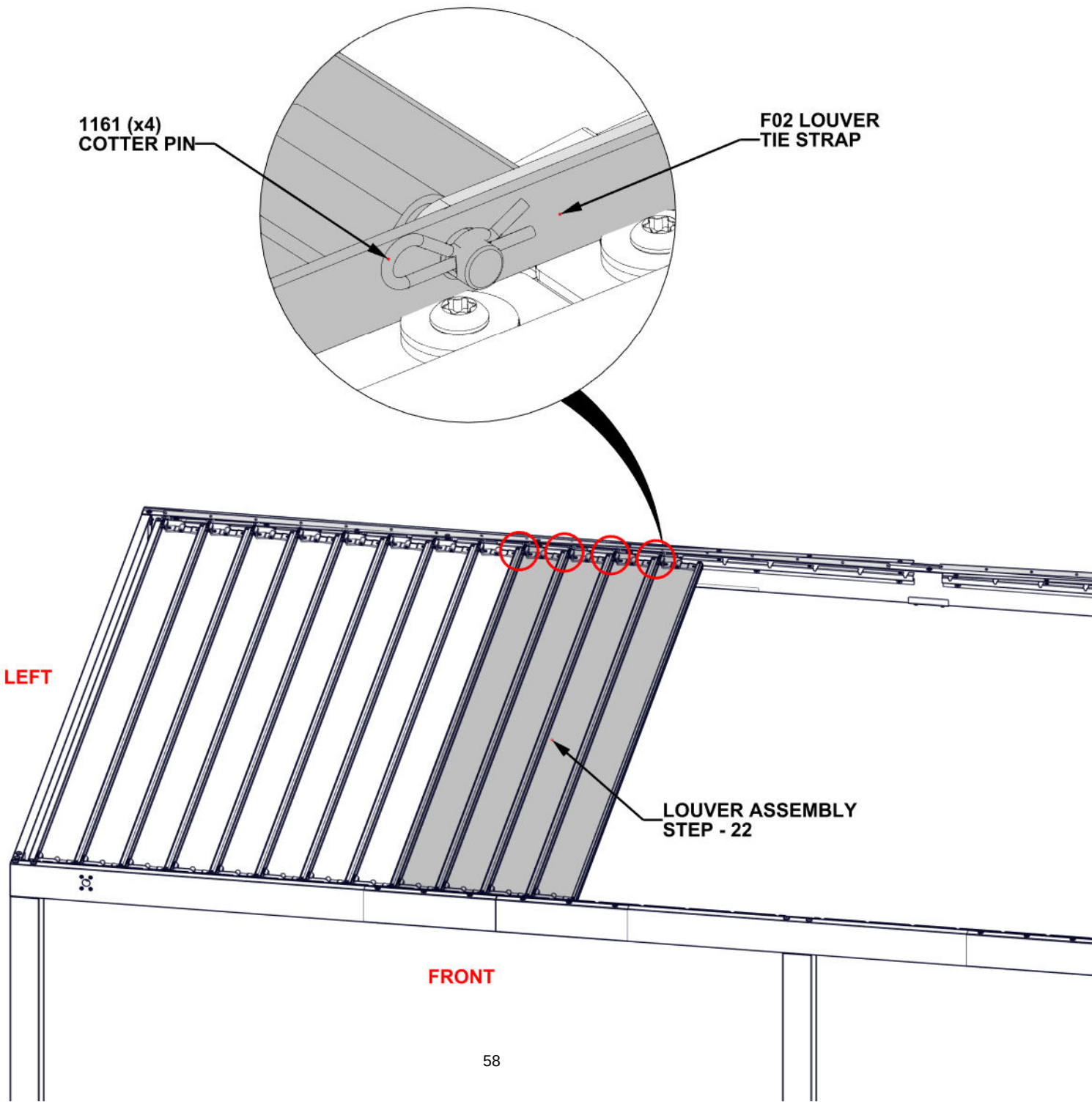


# STEP 23G - LOUVER INSTALLATION



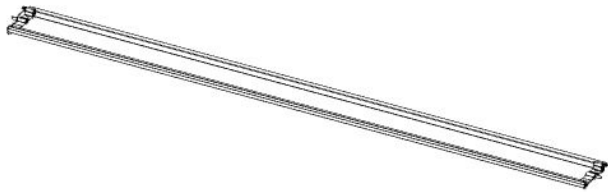
H101161 COTTER PIN  
(x4)

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





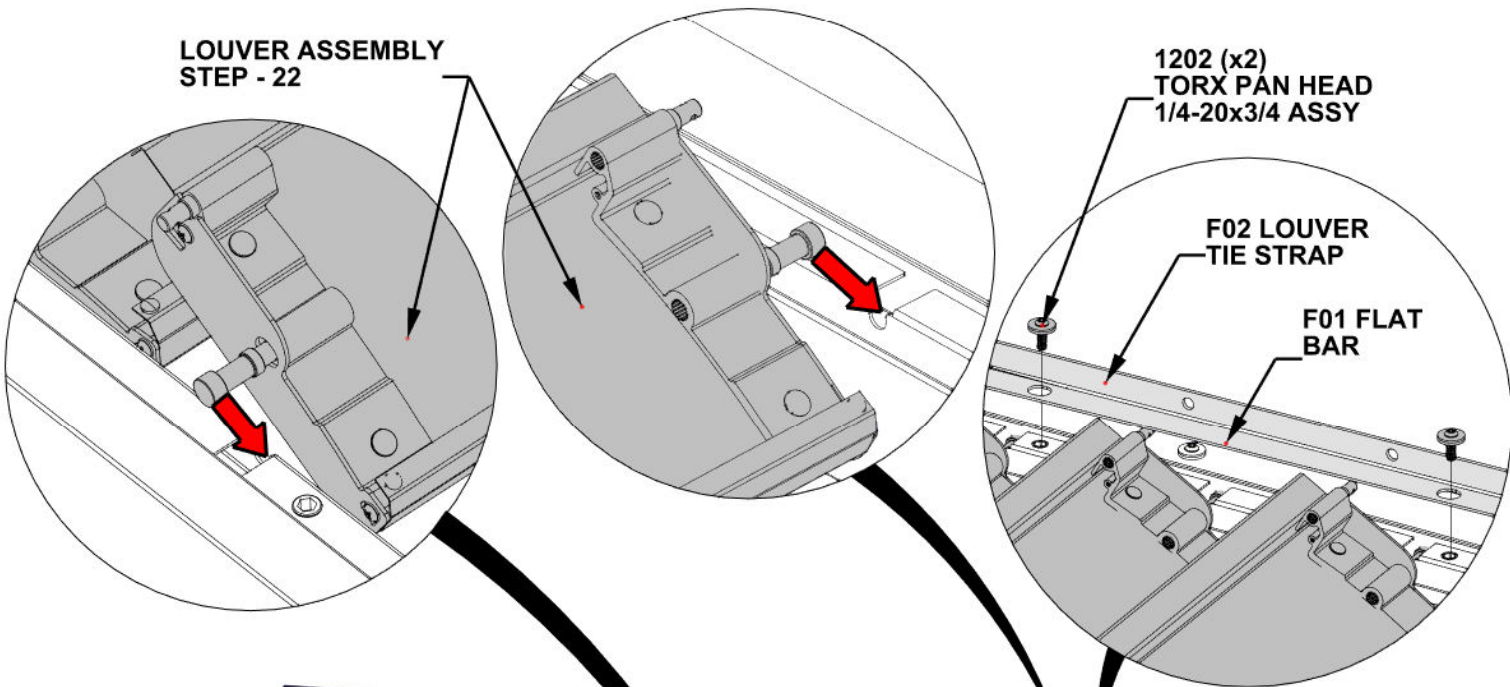
# STEP 23H - LOUVER INSTALLATION



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

LOUVER ASSEMBLY STEP - 22  
(x4)

- 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.

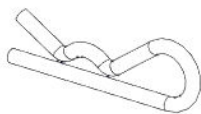


LEFT

FRONT

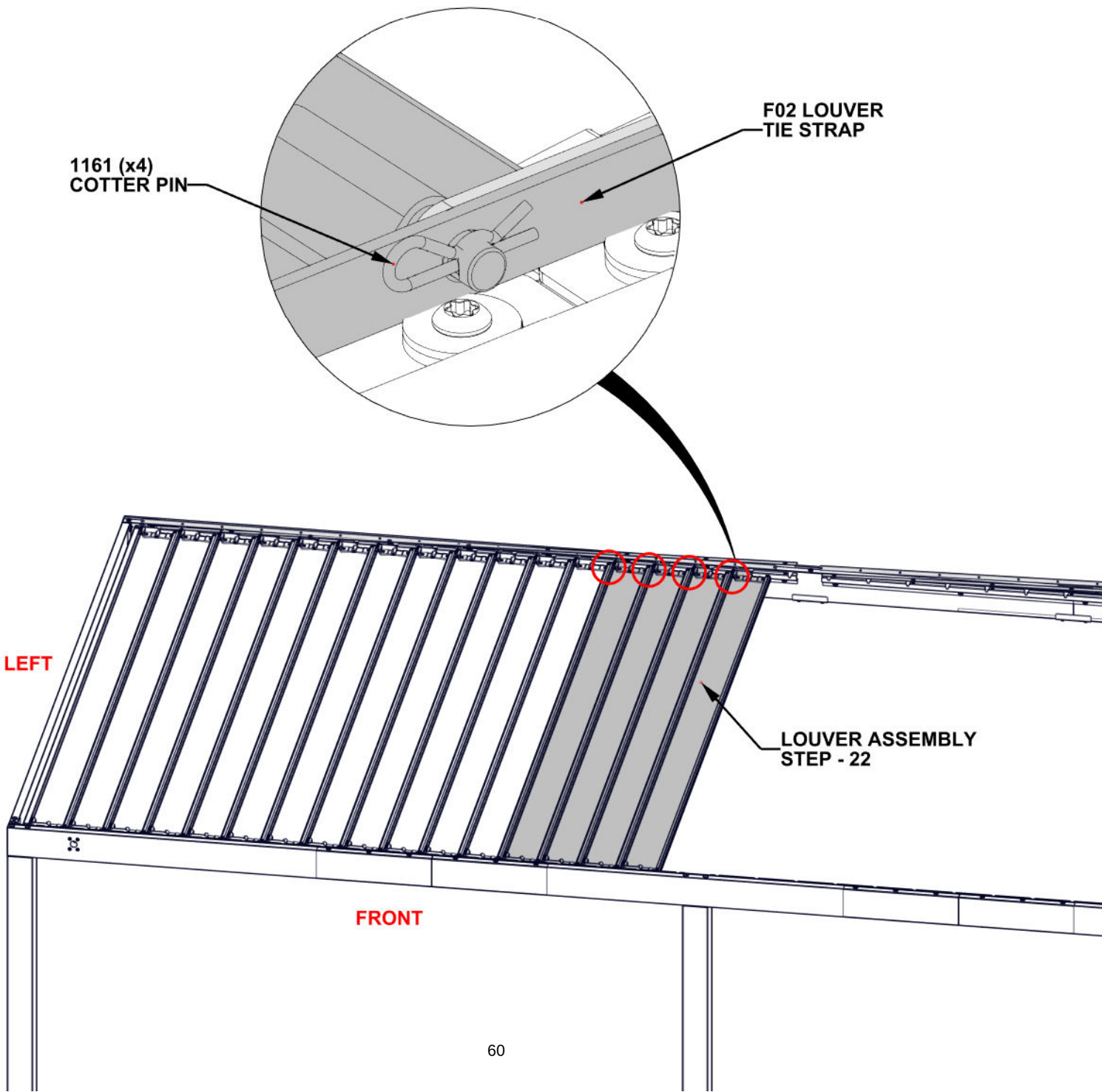
LOUVER ASSEMBLY  
STEP - 22

# STEP 23I - LOUVER INSTALLATION



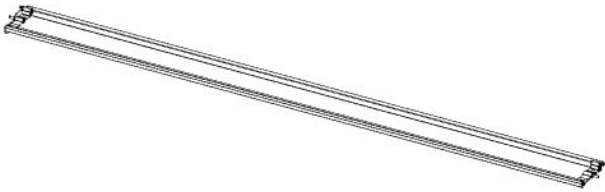
H101161 COTTER PIN  
(x4)

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





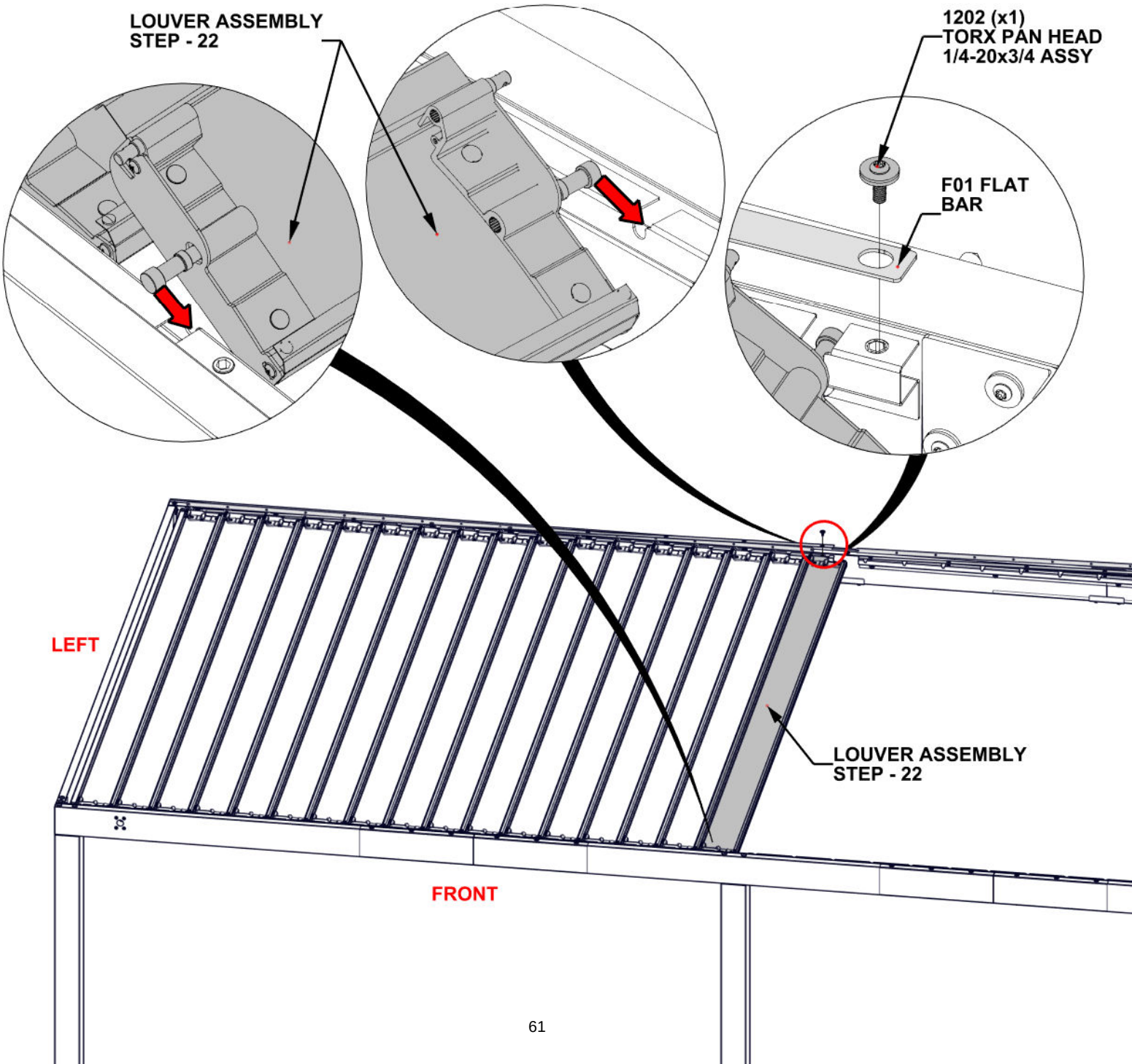
# STEP 23J - LOUVER INSTALLATION



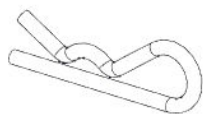
| Qty | PartNo  | Description                   |
|-----|---------|-------------------------------|
| 1   | H101202 | TORX PAN HEAD 1/4-20x3/4 ASSY |

LOUVER ASSEMBLY STEP - 22  
(x1)

- 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 ONE BOLT.

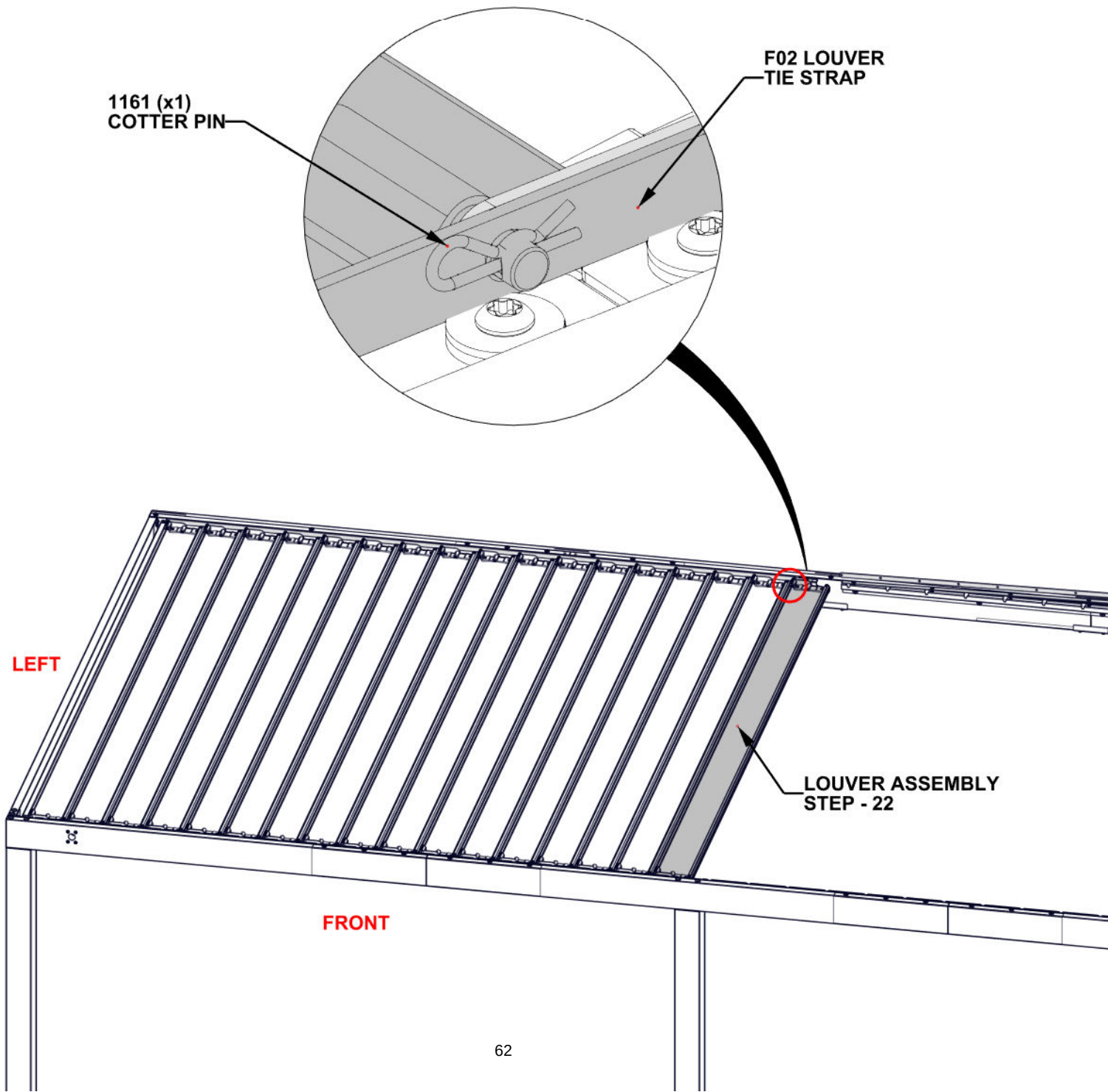


# STEP 23K - LOUVER INSTALLATION



H101161 COTTER PIN  
(x1)

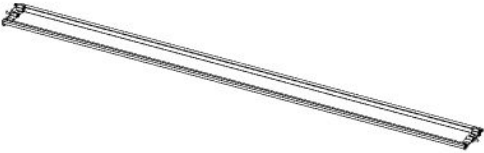
- MAKE SURE ALL LOUVER BLADE ASSEMBLIES ARE ORIENTED IN THE SAME DIRECTION.
- ATTACH COTTER PIN TO EACH OF THE INSTALLED LOUVER BLADES ON THE BACK SIDE.





# STEP 23L - LOUVER INSTALLATION

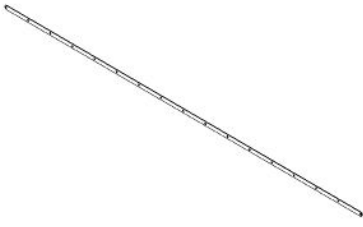
| Qty | PartNo  | Description                   |
|-----|---------|-------------------------------|
| 2   | H101202 | TORX PAN HEAD 1/4-20x3/4 ASSY |



LOUVER ASSEMBLY STEP - 22  
(x4)

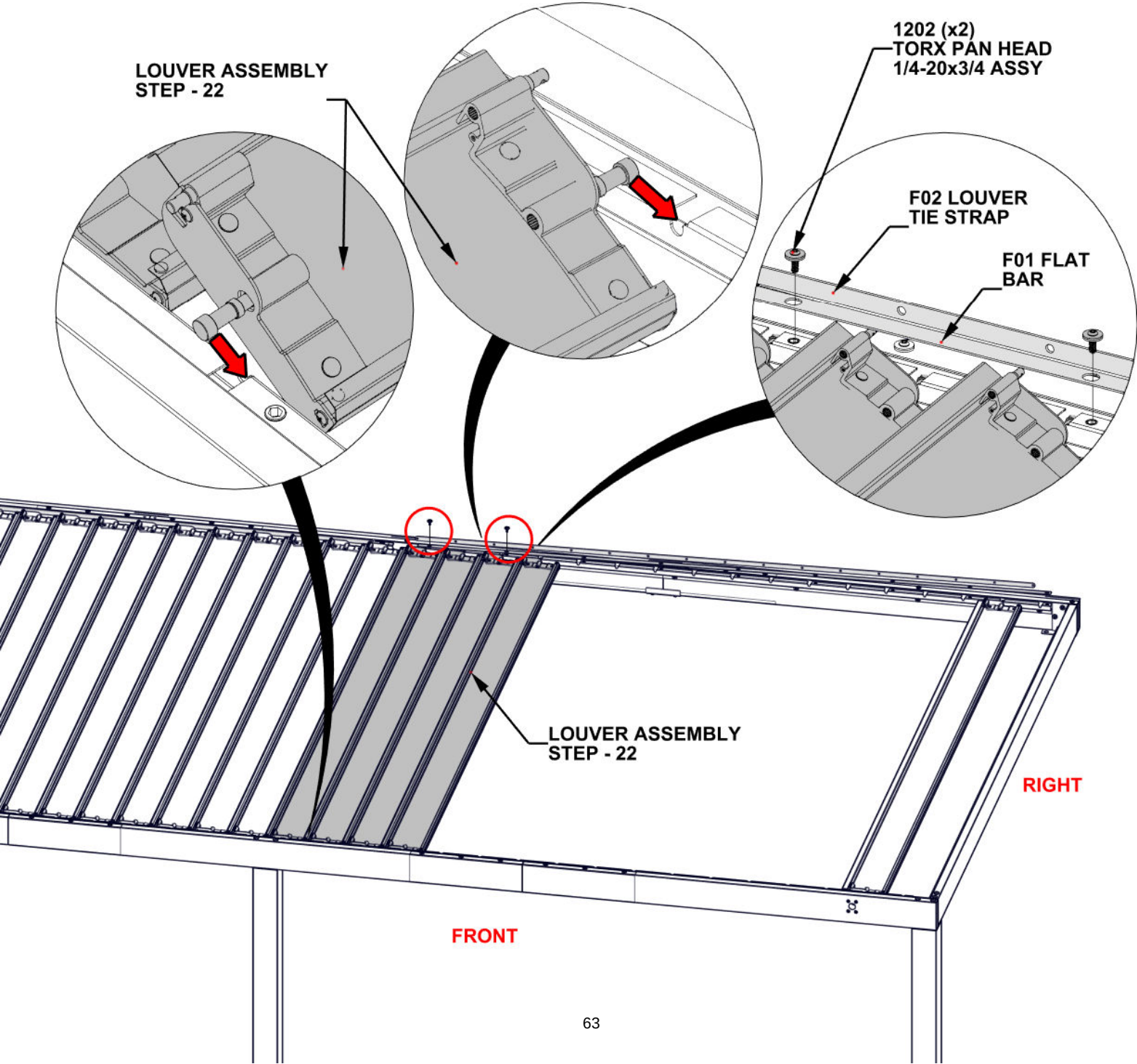


F01 FLAT BAR - A4M02585  
(x1) 1/16"x1"x110 3/4" (2x25x2813)

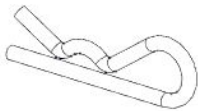


F02 LOUVER TIE STRAP - A4M04059  
(x1) 1/8"x13/16"x108 3/8" (3x20x2752)

- 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.

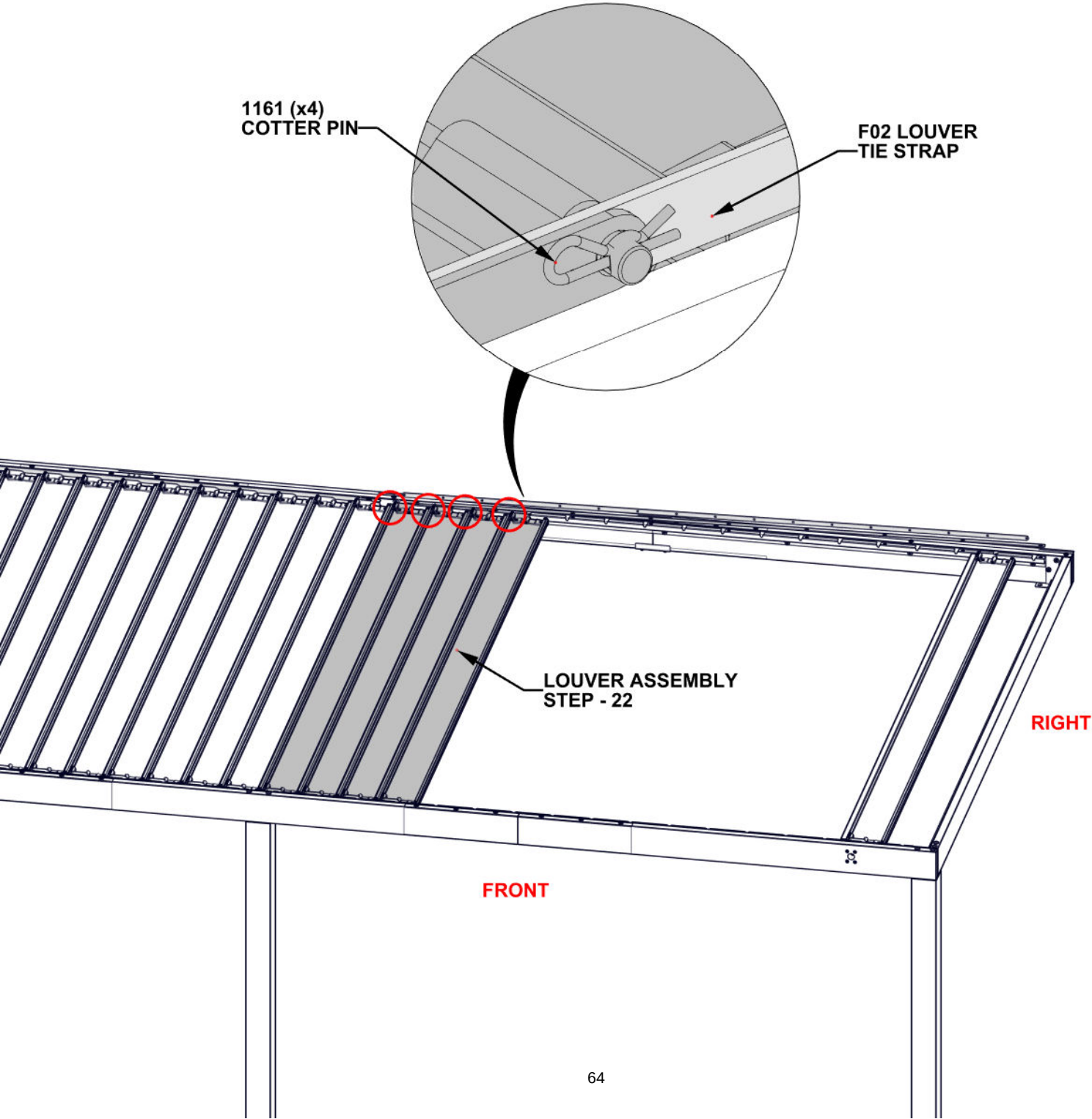


# STEP 23M - LOUVER INSTALLATION



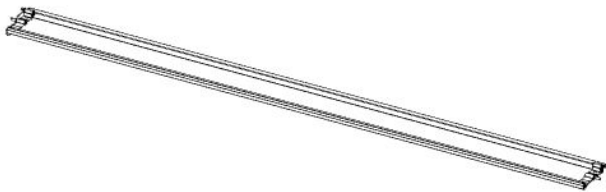
H101161 COTTER PIN  
(x4)

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





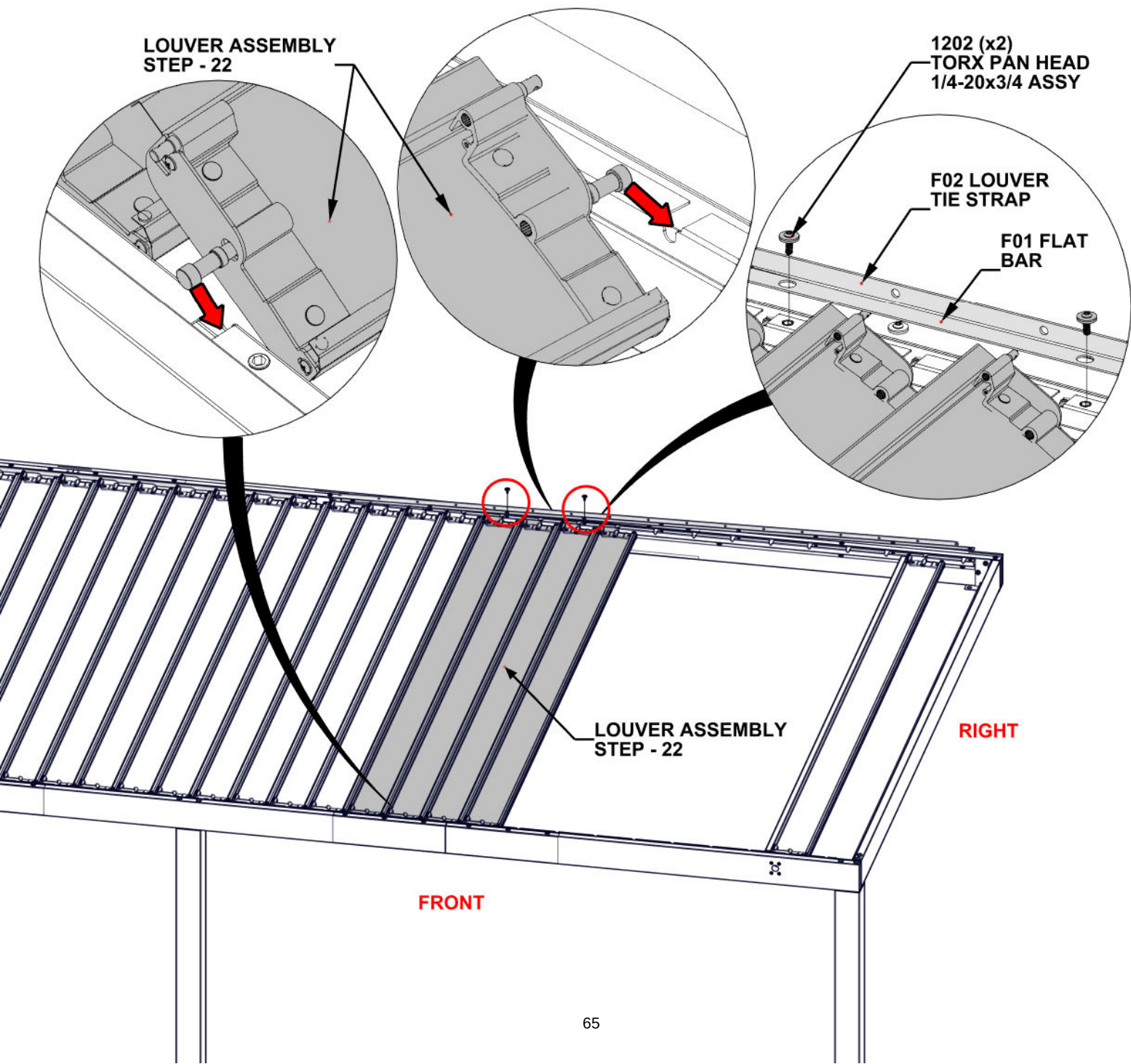
# STEP 23N - LOUVER INSTALLATION



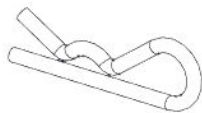
| Qty | PartNo  | Description                   |
|-----|---------|-------------------------------|
| 2   | H101202 | TORX PAN HEAD 1/4-20x3/4 ASSY |

LOUVER ASSEMBLY STEP - 22  
(x4)

- 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.

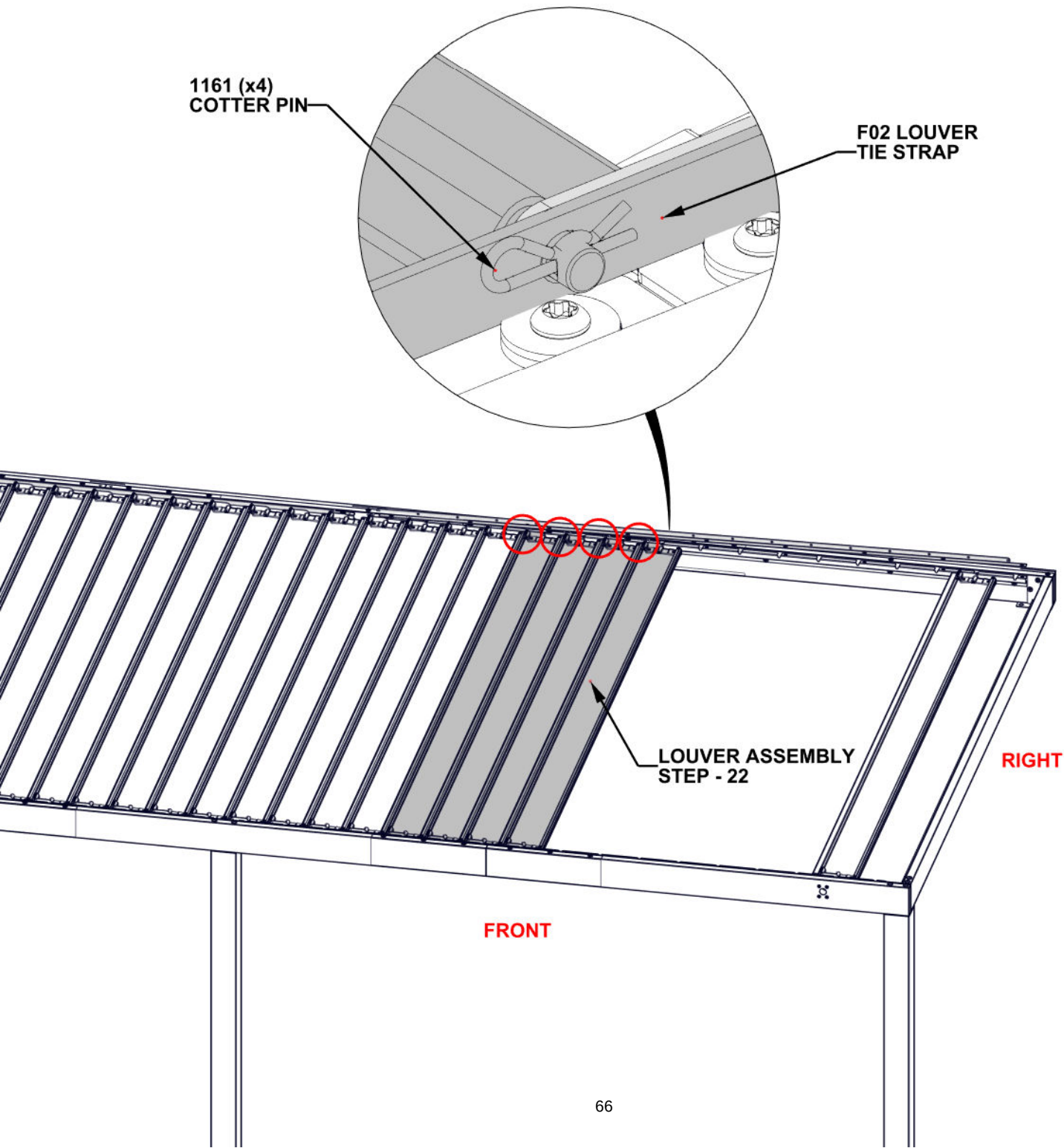


# STEP 230 - LOUVER INSTALLATION



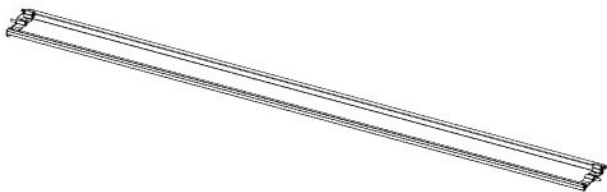
H101161 COTTER PIN  
(x4)

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





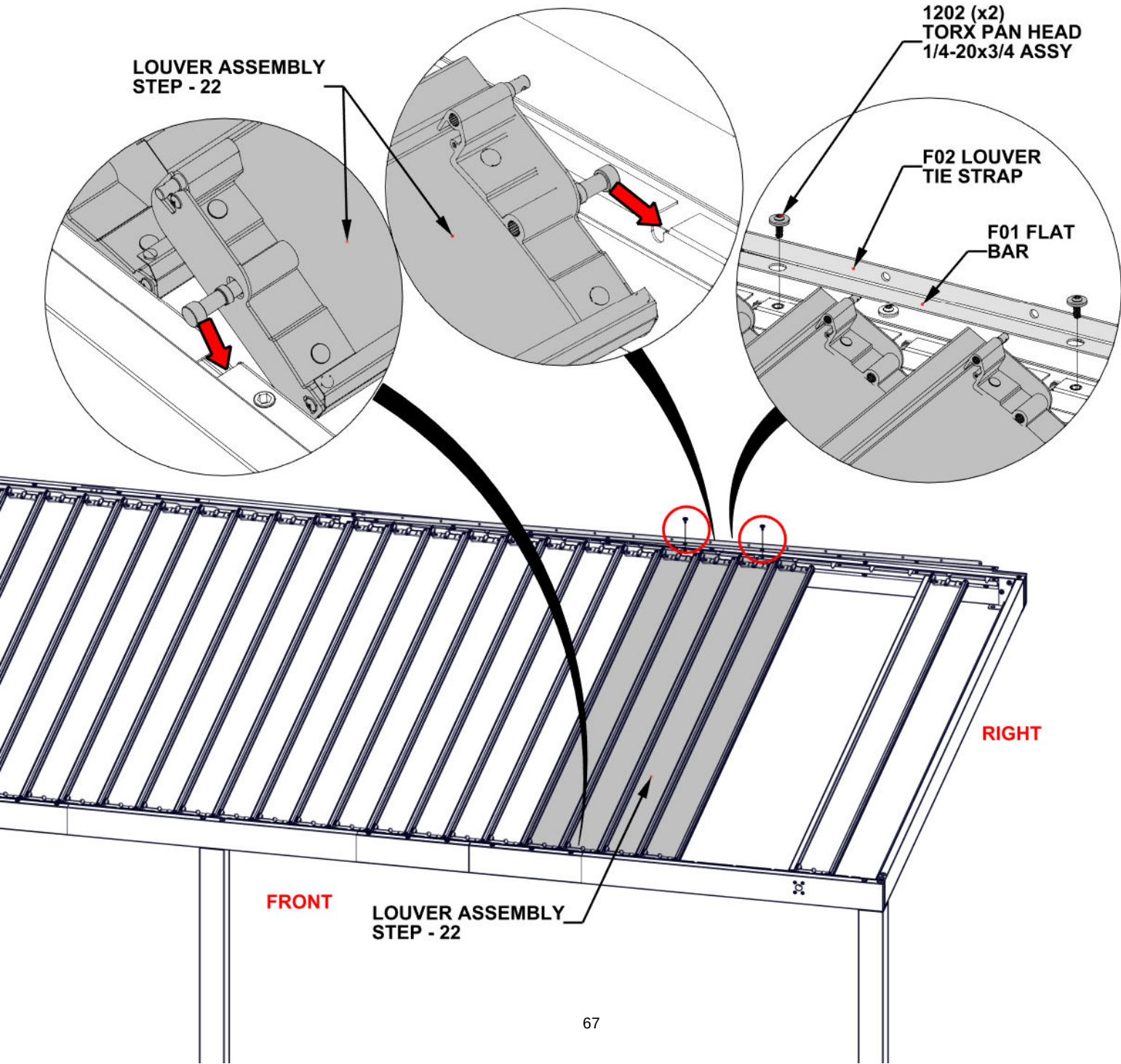
# STEP 23P - LOUVER INSTALLATION



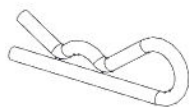
LOUVER ASSEMBLY STEP - 22  
(x4)

| 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.
- **MAKE SURE ALL LOUVER BLADE ASSEMBLIES ARE ORIENTED IN THE SAME DIRECTION.**
- ATTACH FLAT BAR WITH TWO BOLTS.

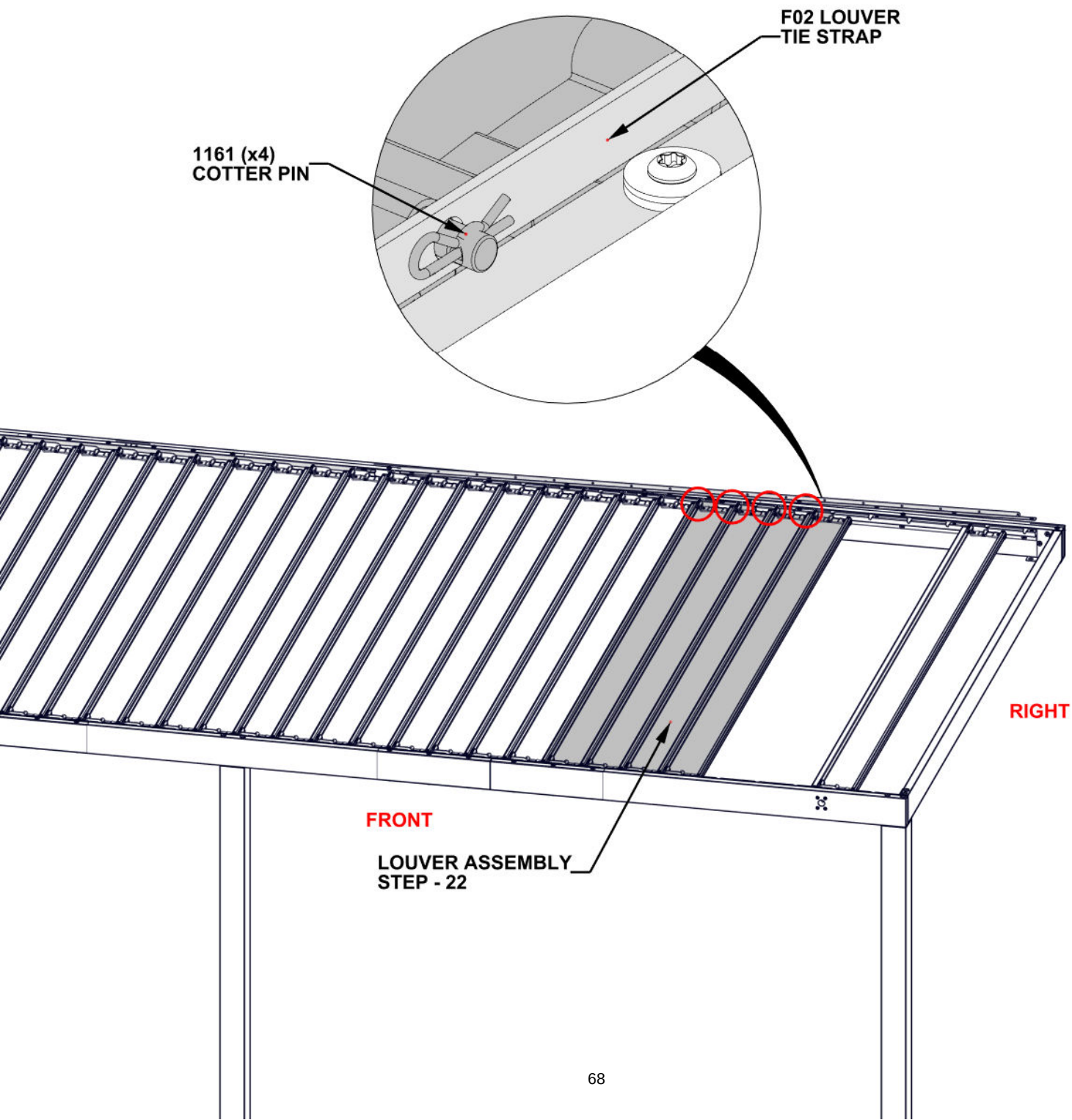


# STEP 23Q - LOUVER INSTALLATION



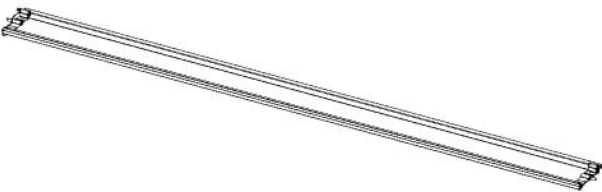
H101161 COTTER PIN  
(x4)

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





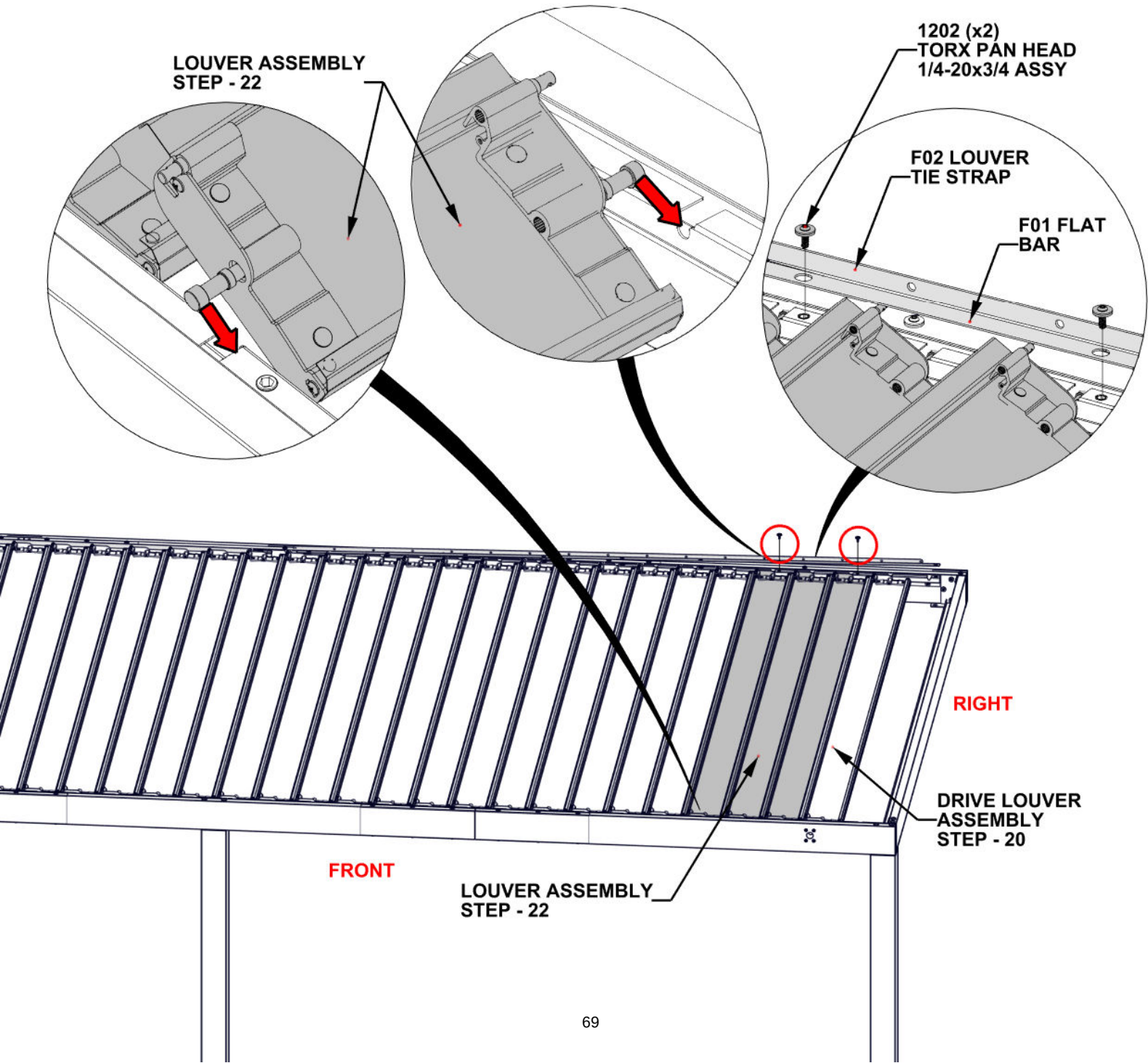
# STEP 23R - LOUVER INSTALLATION



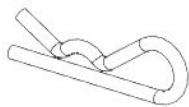
LOUVER ASSEMBLY STEP - 22  
(x3)

| 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.
- **MAKE SURE ALL LOUVER BLADE ASSEMBLIES ARE ORIENTED IN THE SAME DIRECTION.**
- ATTACH FLAT BAR WITH TWO BOLTS.

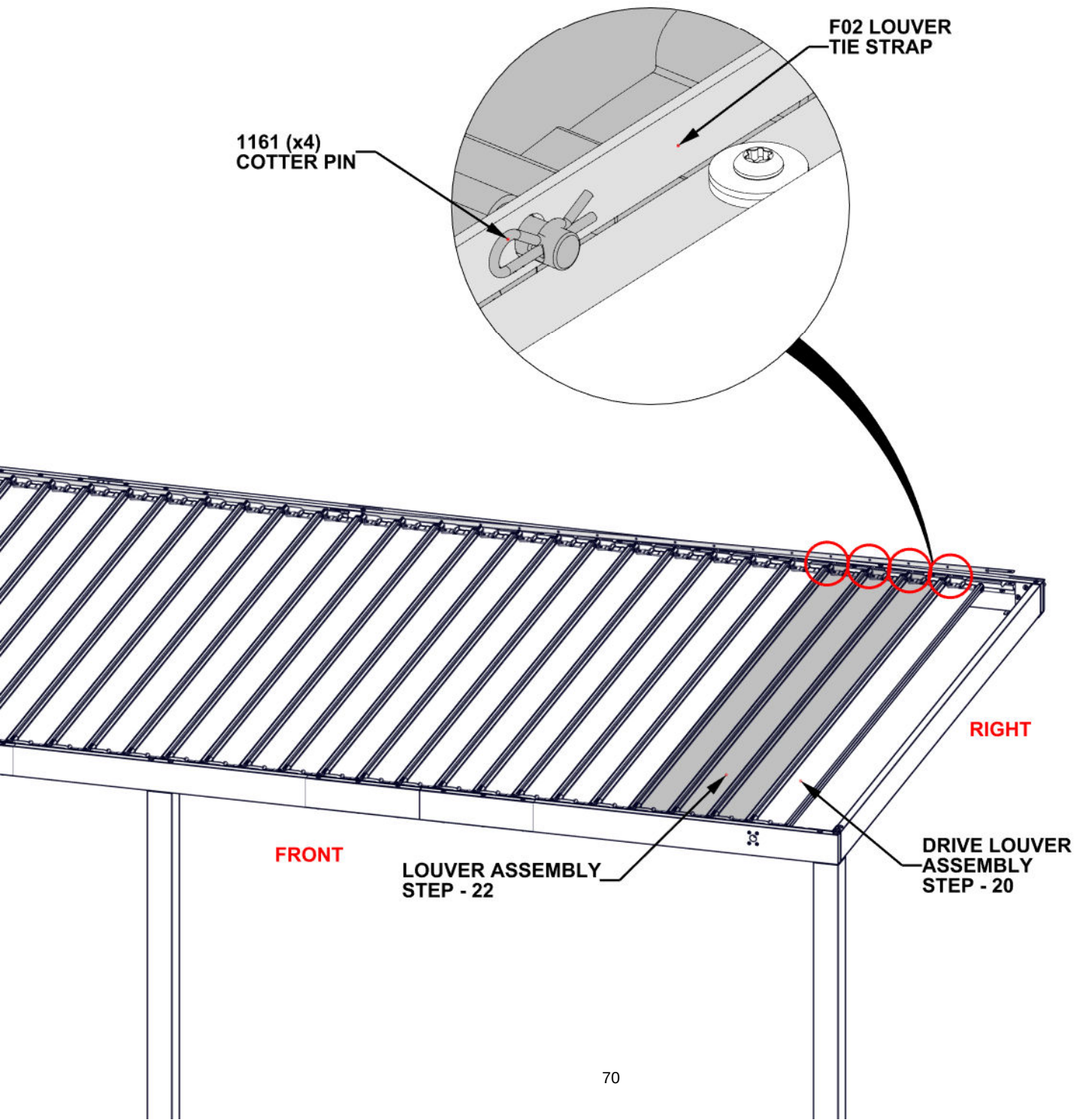


# STEP 23S - LOUVER INSTALLATION



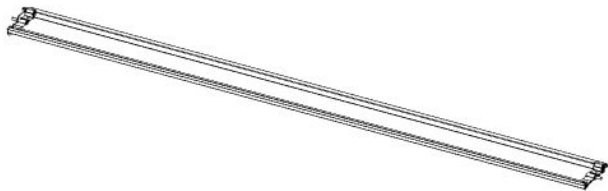
H101161 COTTER PIN  
(x4)

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





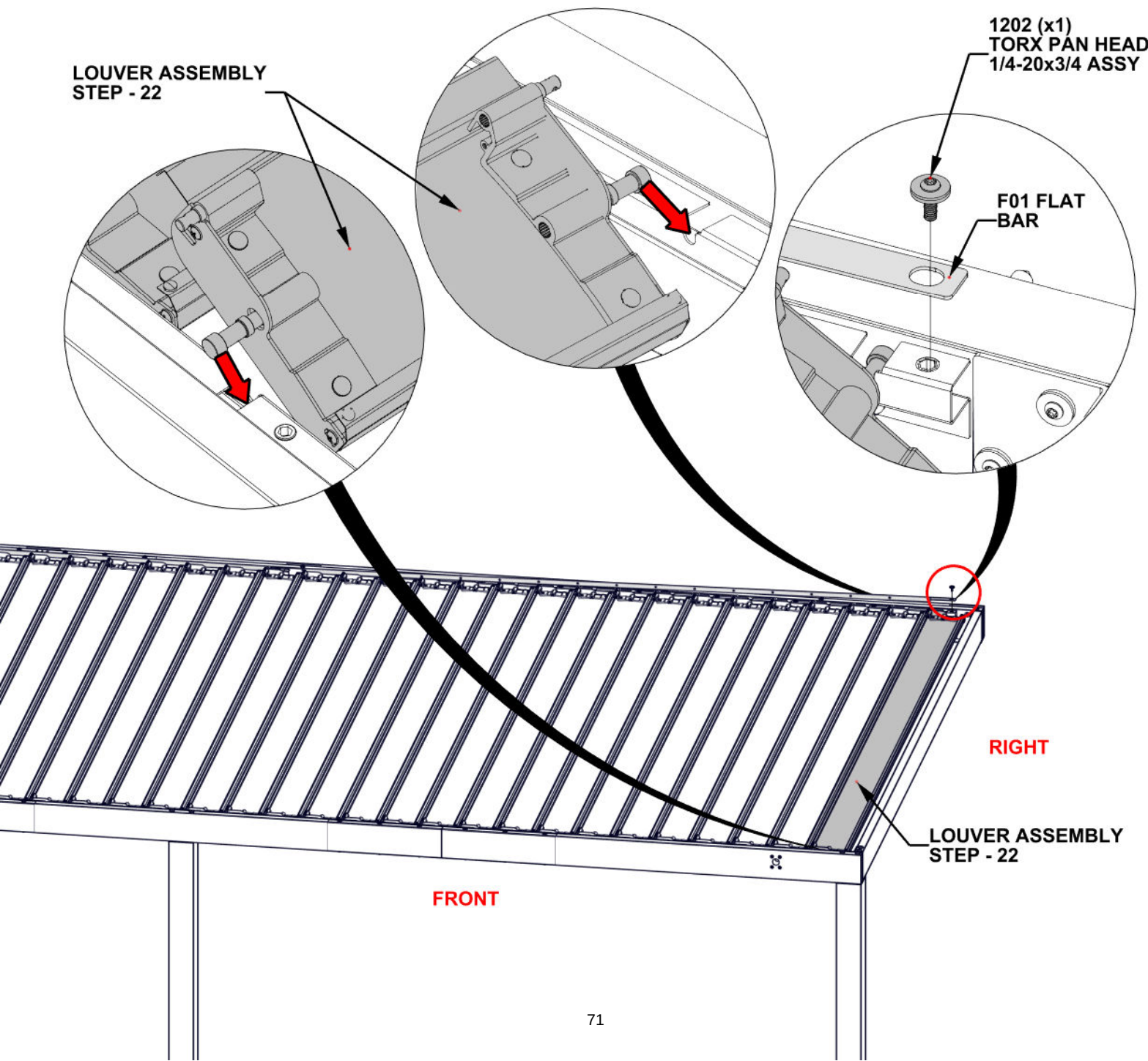
# STEP 23T - LOUVER INSTALLATION



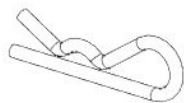
| Qty | PartNo  | Description                   |
|-----|---------|-------------------------------|
| 1   | H101202 | TORX PAN HEAD 1/4-20x3/4 ASSY |

LOUVER ASSEMBLY STEP - 22  
(x1)

- 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 ONE BOLT.

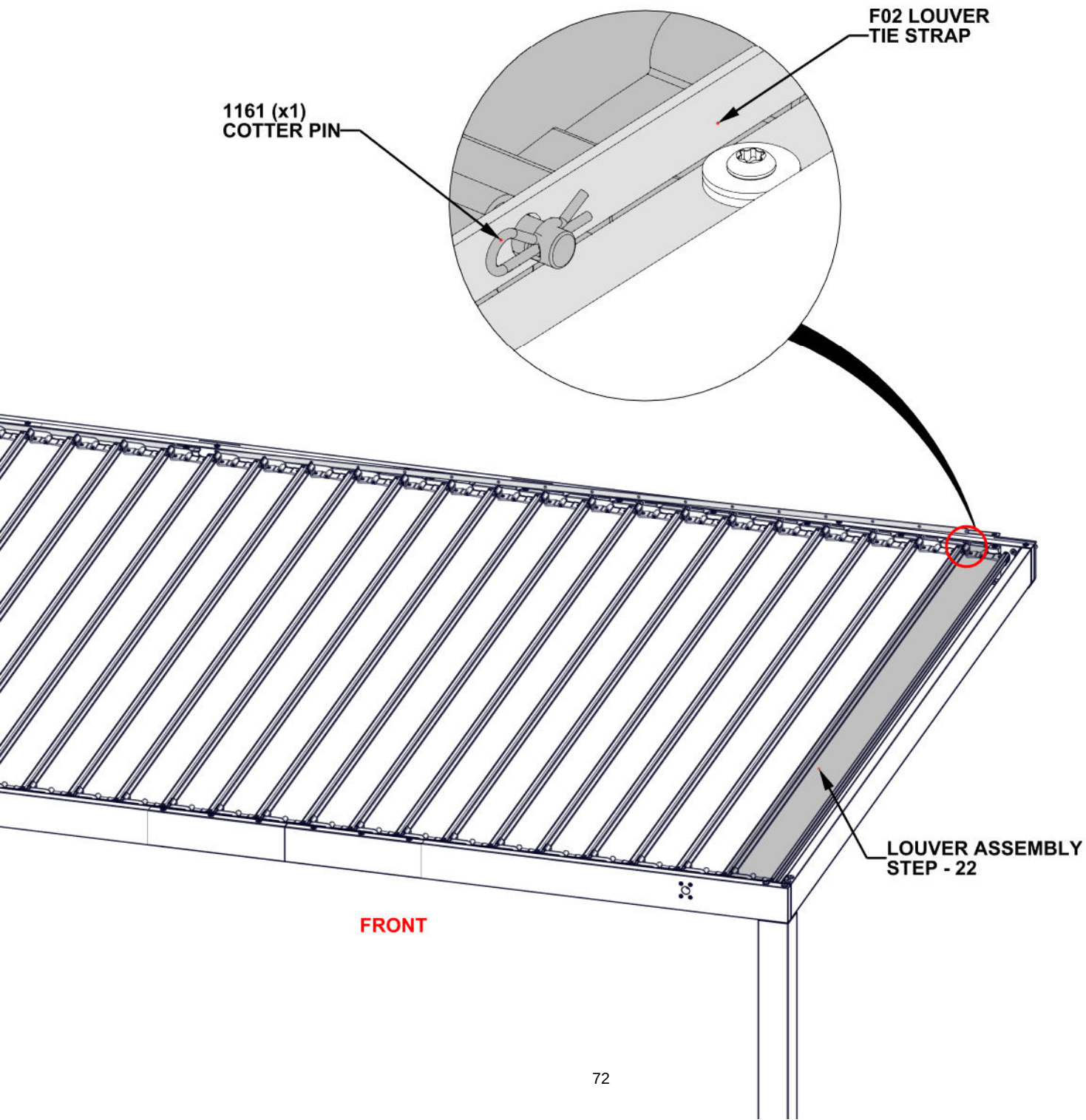


# STEP 23U - LOUVER INSTALLATION



H101161 COTTER PIN  
(x1)

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





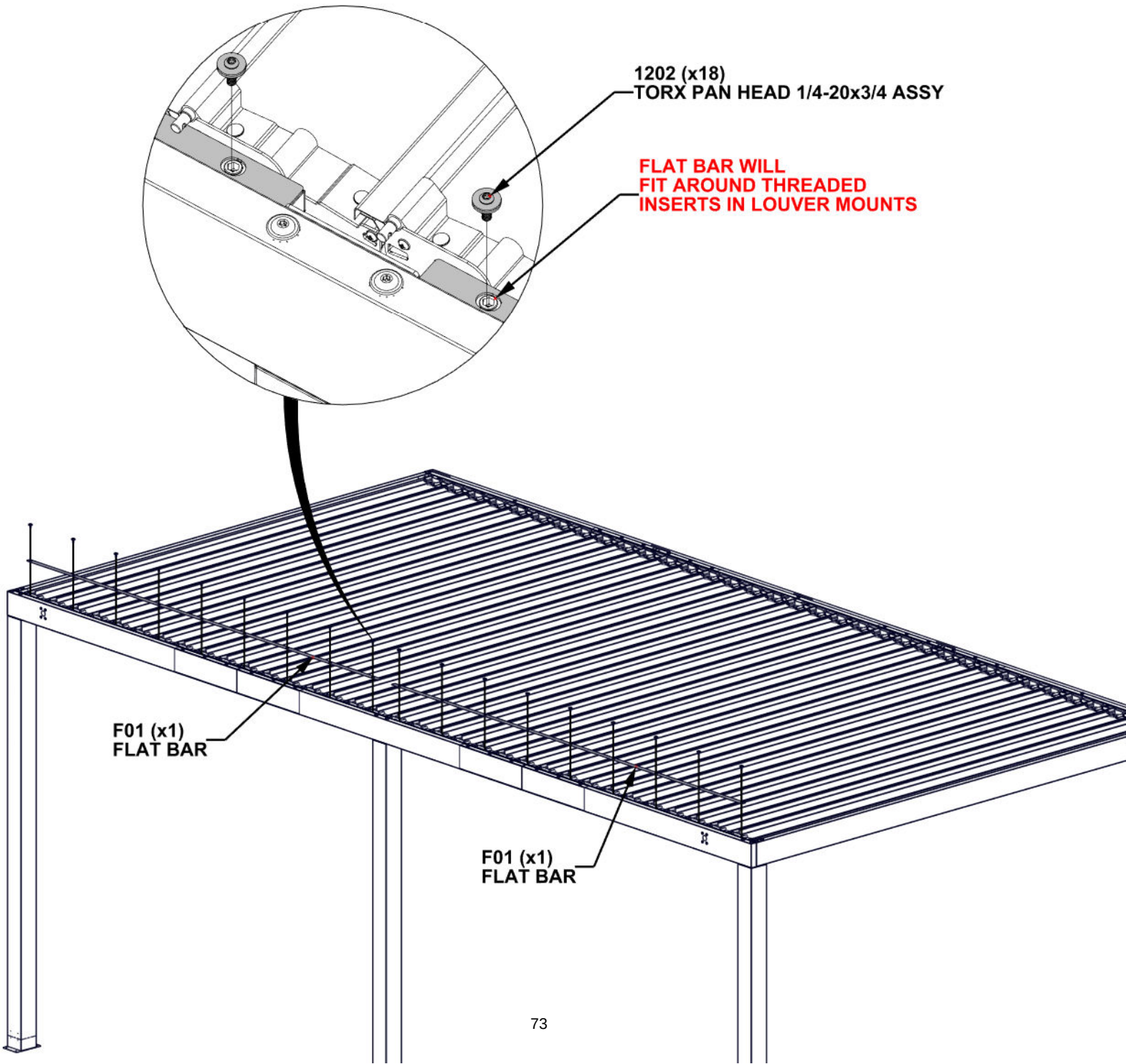
# STEP 24 - LOUVER INSTALLATION



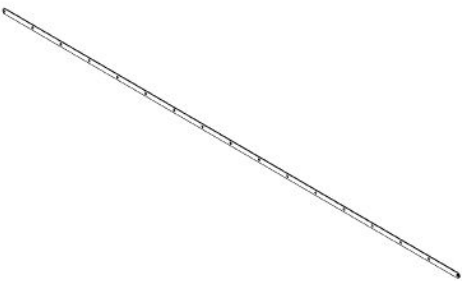
| Qty | PartNo  | Description                   |
|-----|---------|-------------------------------|
| 18  | H101202 | TORX PAN HEAD 1/4-20x3/4 ASSY |

F01 FLAT BAR - A4M02585  
(x2) 1/16"x1"x110 3/4" (2x25x2813)

- ON THE FRONT SIDE, ATTACH FLAT BAR ALONG EACH LOUVER MOUNT. FLAT BAR WILL HOLD ALL LOUVERS IN PLACE.

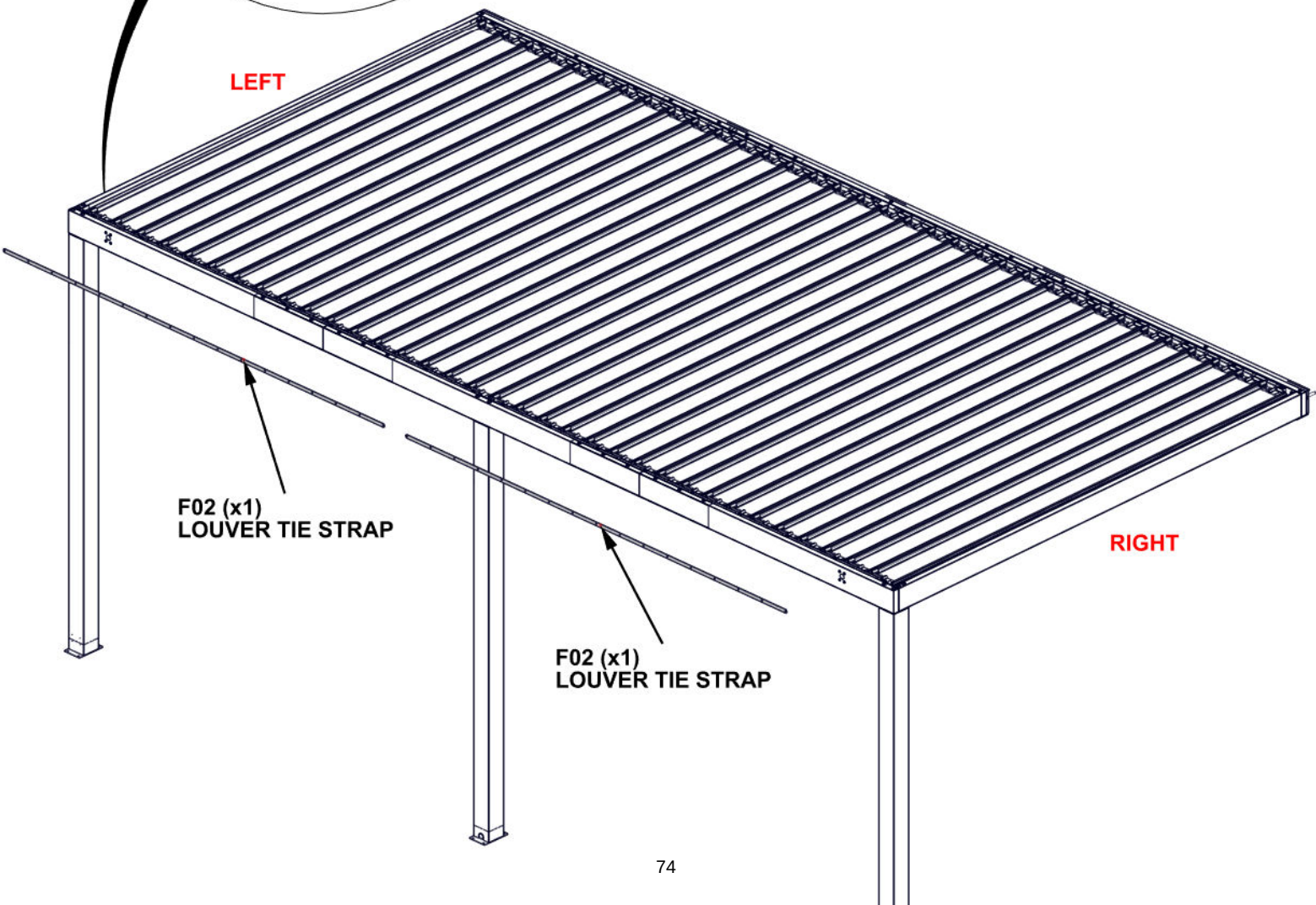
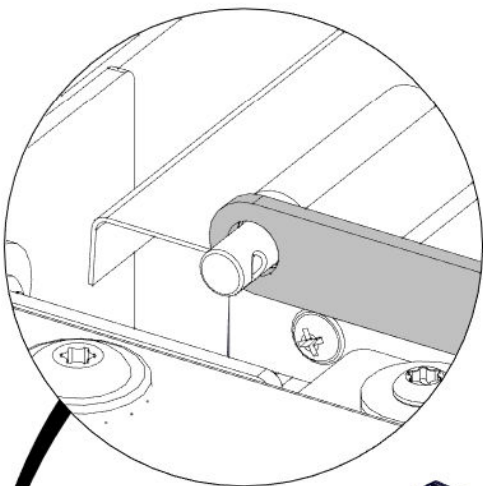


# STEP 25A - LOUVER INSTALLATION



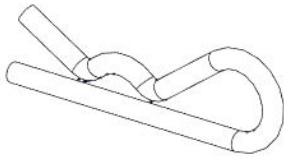
F02 LOUVER TIE STRAP - A4M04059  
(x2) 1/8"x13/16"x108 3/8" (3x20x2752)

- LOUVER TIE STRAPS WILL CONNECT ALL LOUVERS TO ONE ANOTHER.
- STARTING ON THE LEFT AND WORKING TO THE RIGHT, CONNECT LOUVERS USING TIE STRAPS.



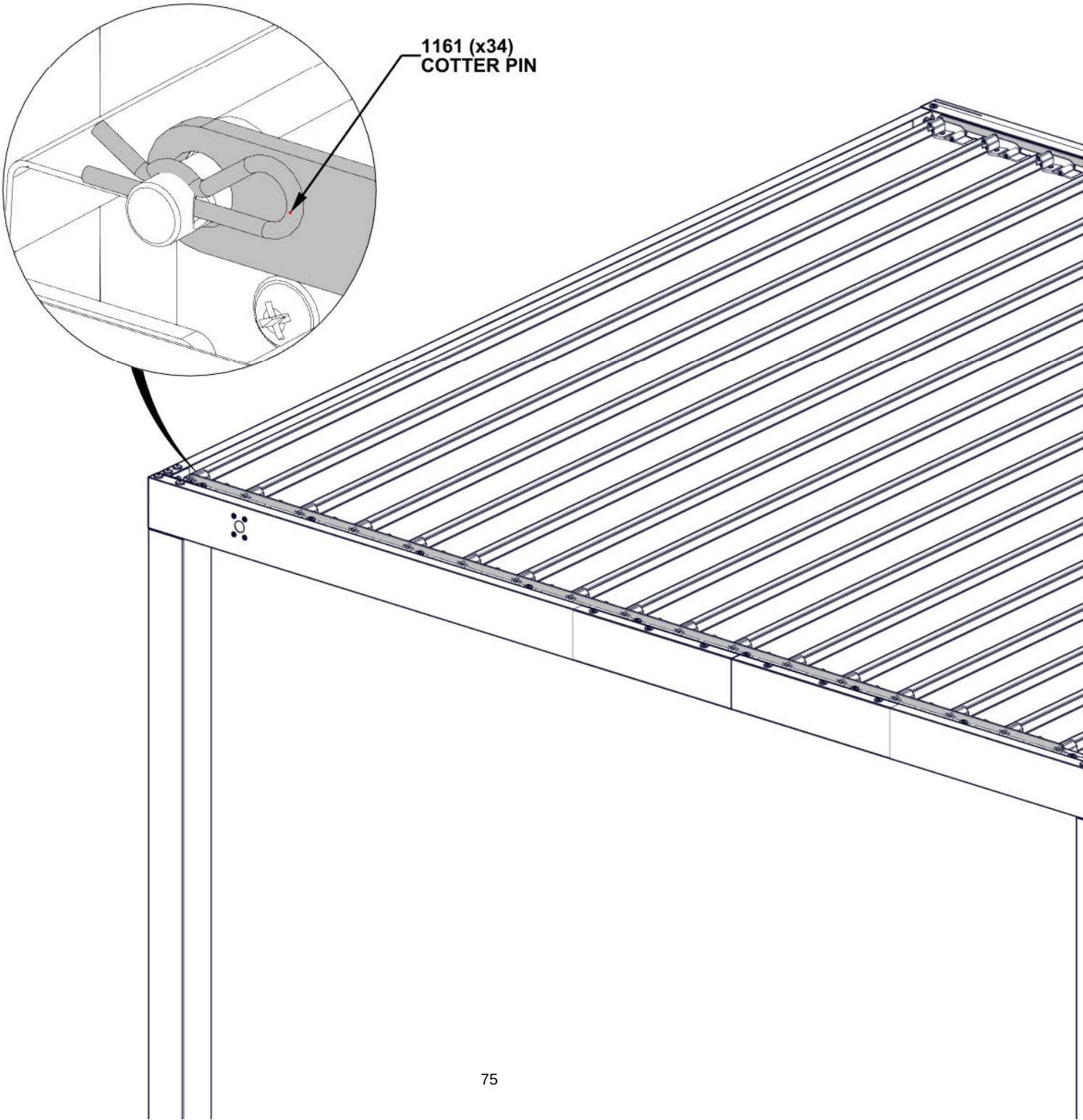


# STEP 25B - LOUVER INSTALLATION



H101161 COTTER PIN  
(x34)

- 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

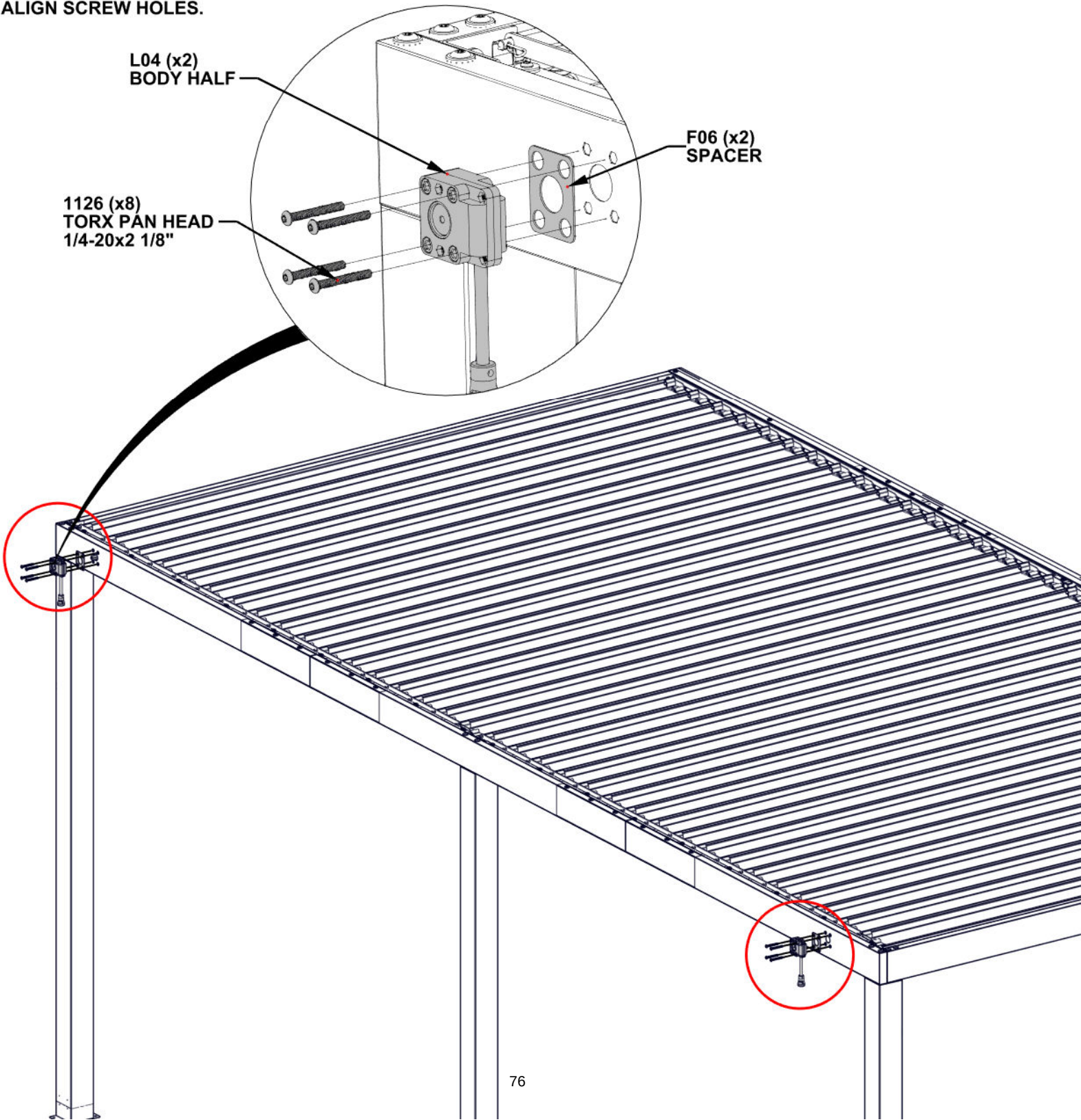


| Qty | PartNo  | Description                     |
|-----|---------|---------------------------------|
| 8   | H101126 | TORX PAN HEAD 1/4-20x2 1/8" BLK |

L04 BODY HALF - A4M02132  
(x2) 11/16"x2 1/2"x2 7/8" (17x64x73)

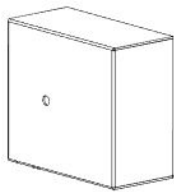
F06 SPACER - A4M02227  
(x2) 1/16"x2 3/16"x2 3/4" (1.5x56x70)

- ALIGN SCREW HOLES.

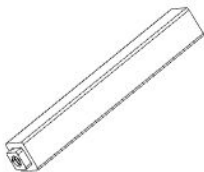




# STEP 27 - LOUVER MECHANISM



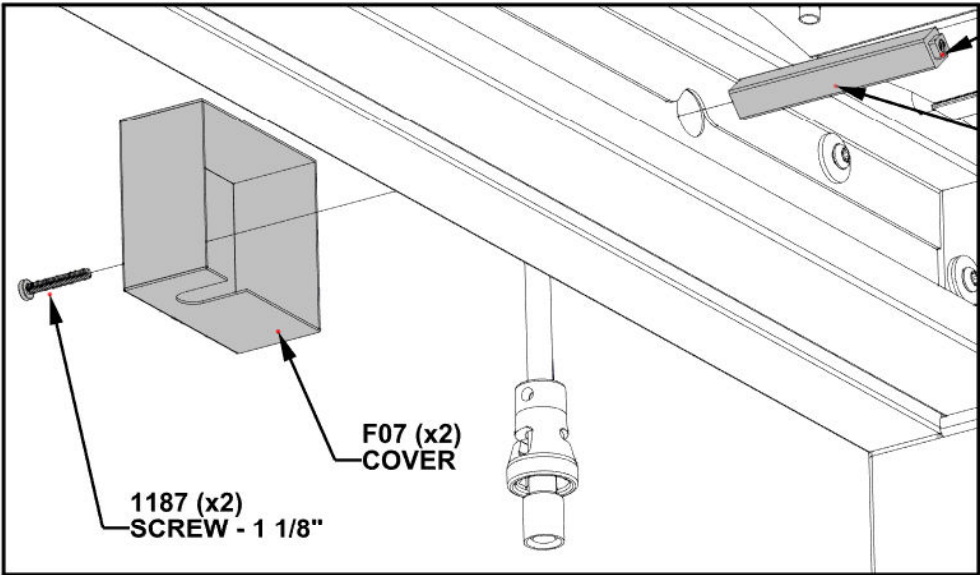
F07 COVER - A4M02228  
(x2) 1 9/16"x2 7/8"x3 1/4" (39.5x73x82)



F05 KEY STOCK - A4M02226  
(x2) 1/2"x1/2"x3 3/4" (13.0x13.0x95)

| Qty | PartNo  | Description             |
|-----|---------|-------------------------|
| 2   | H101187 | BOLT PPH 8-32x1 1/8 BLK |

- ALIGN SCREW HOLES.

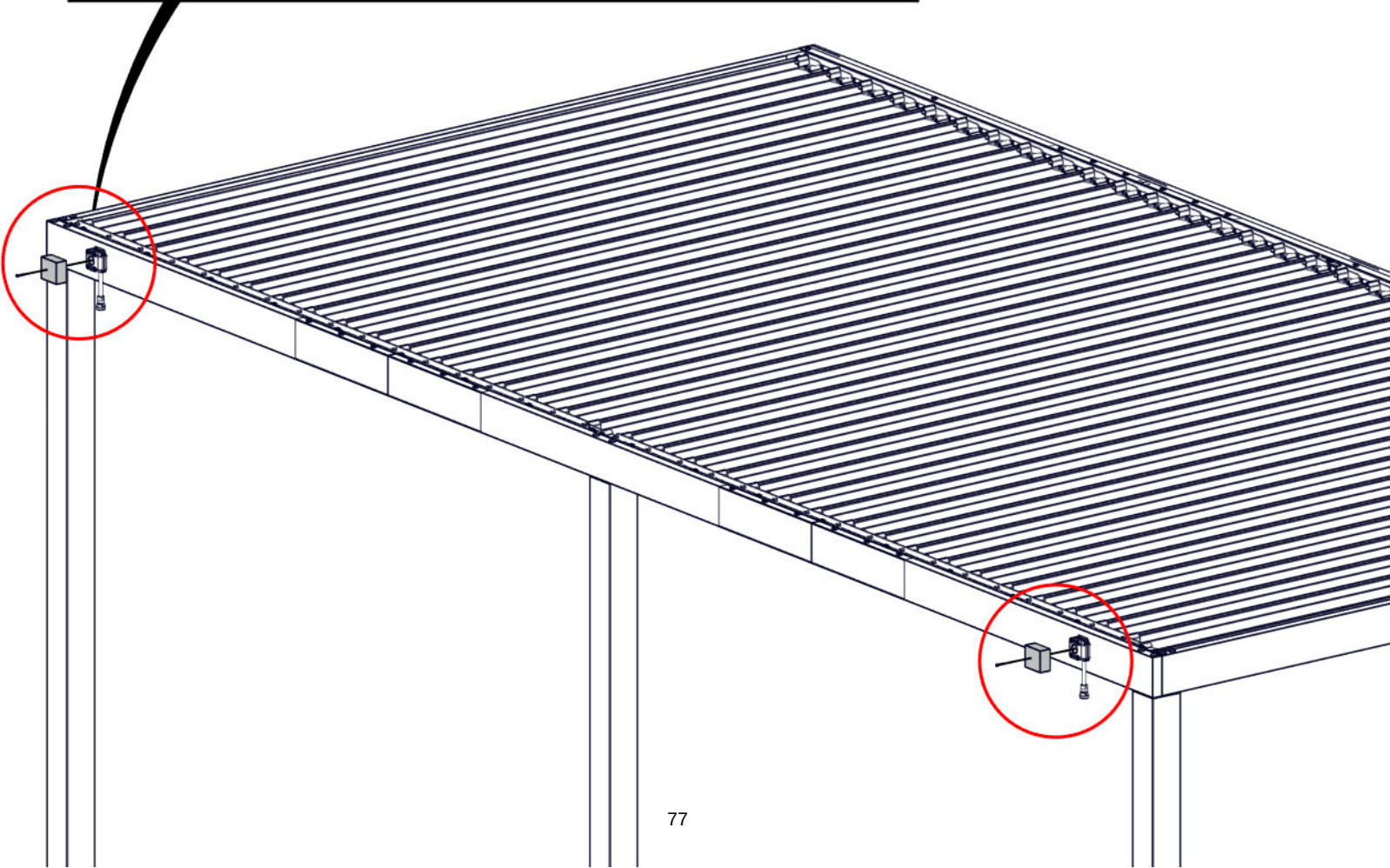


ORIENTATION OF  
KEY STOCK. SQUARE END  
FACES OUT.

F05 (x2)  
KEY STOCK

F07 (x2)  
COVER

1187 (x2)  
SCREW - 1 1/8"



# STEP 28A - LOUVER MECHANISM



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

- F03

LINKAGE STRAP - A4M02229-01

(x2)

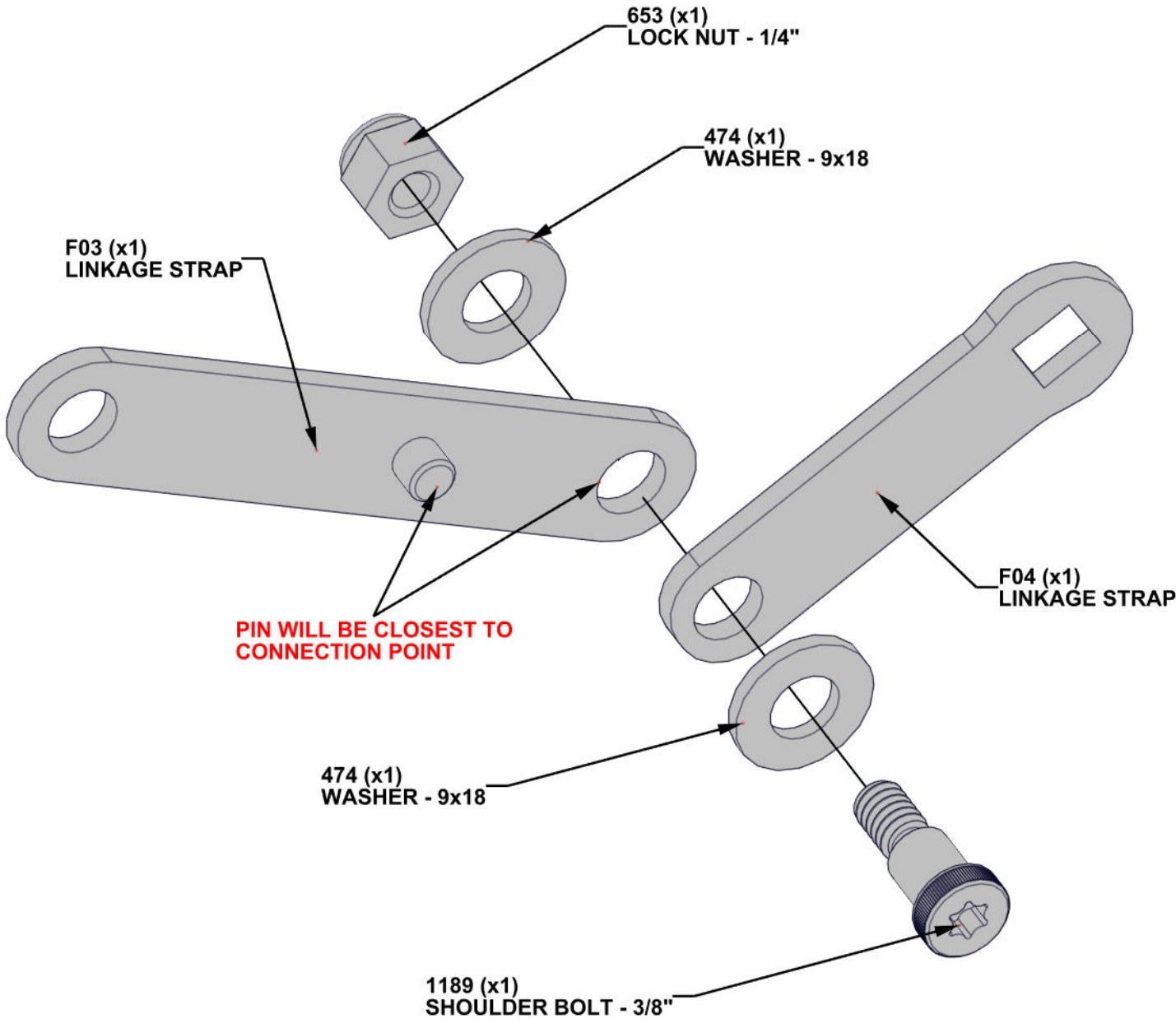
1/8"x11/16"x3 13/16" (3x17x97)
- F04

LINKAGE STRAP - A4M02225

(x2)

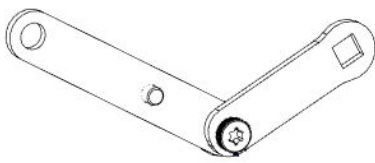
1/8"x13/16"x2 5/8" (3x20x66)

- LINKAGES MUST BE ORIENTED AS SHOWN BELOW.
- DO NOT OVERTIGHTEN HARDWARE.
- LINKAGES SHOULD BE ABLE TO ROTATE FREELY.
- REPEAT THIS STEP TWO TIMES.





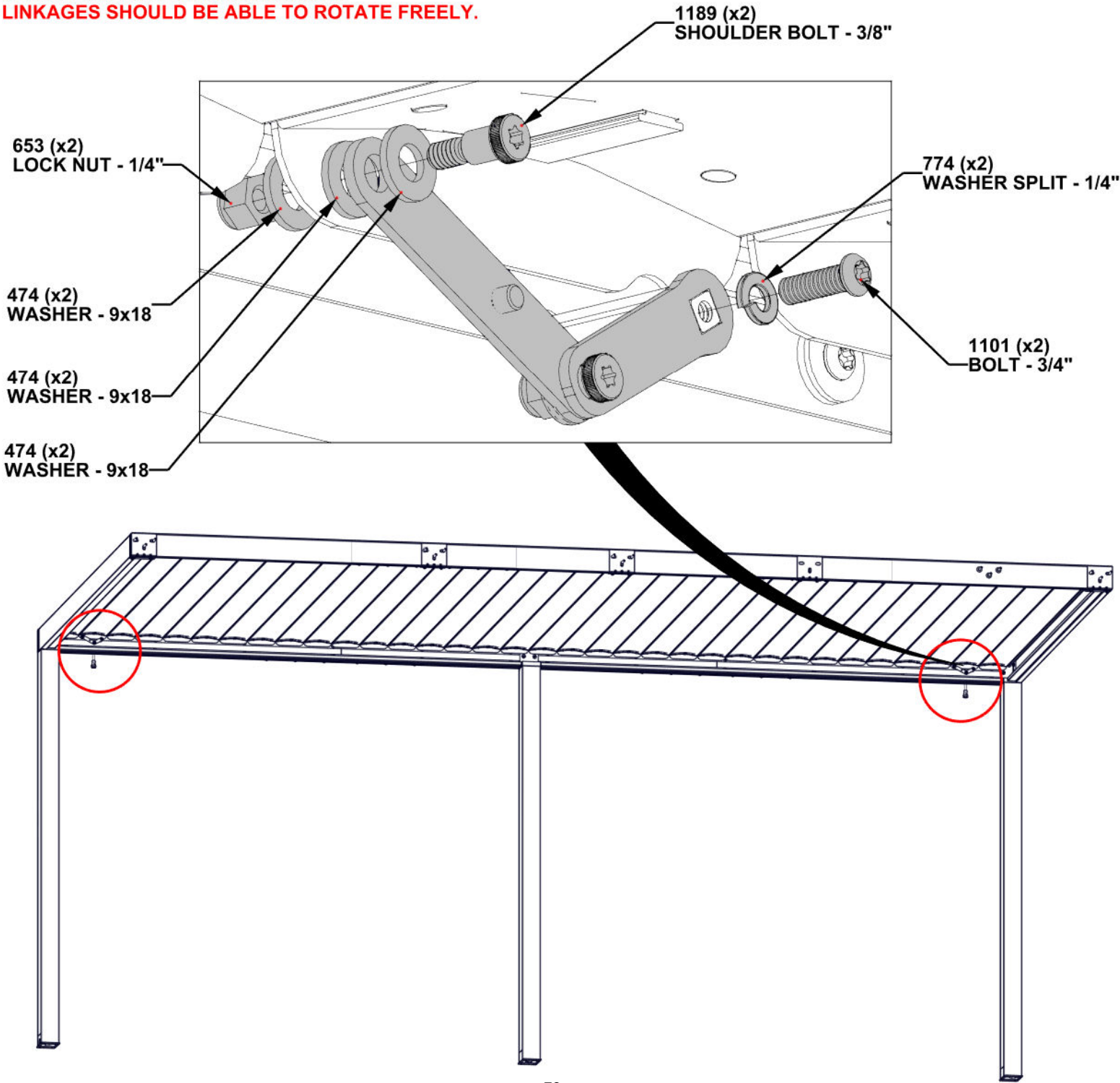
# STEP 28B - LOUVER MECHANISM



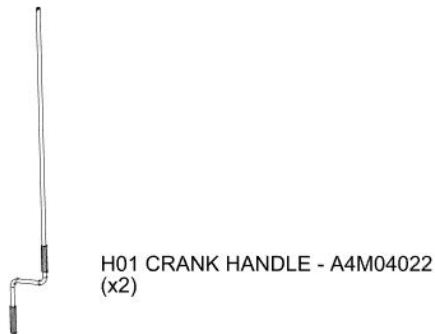
LINKAGE ASSEMBLY (X2)  
STEP - 28A

| Qty | PartNo  | Description                               |
|-----|---------|-------------------------------------------|
| 2   | H101189 | LOW PROFILE SHOULDER BOLT 1/4-20x3/8" BLK |
| 2   | H100653 | NUT LOCK 1/4 BLK                          |
| 2   | H101101 | TORX PAN HEAD 1/4-20x3/4" BLK             |
| 6   | H100474 | WASHER FLAT 9x18 BLK                      |
| 2   | H100774 | WASHER SPLIT 1/4 BLK                      |

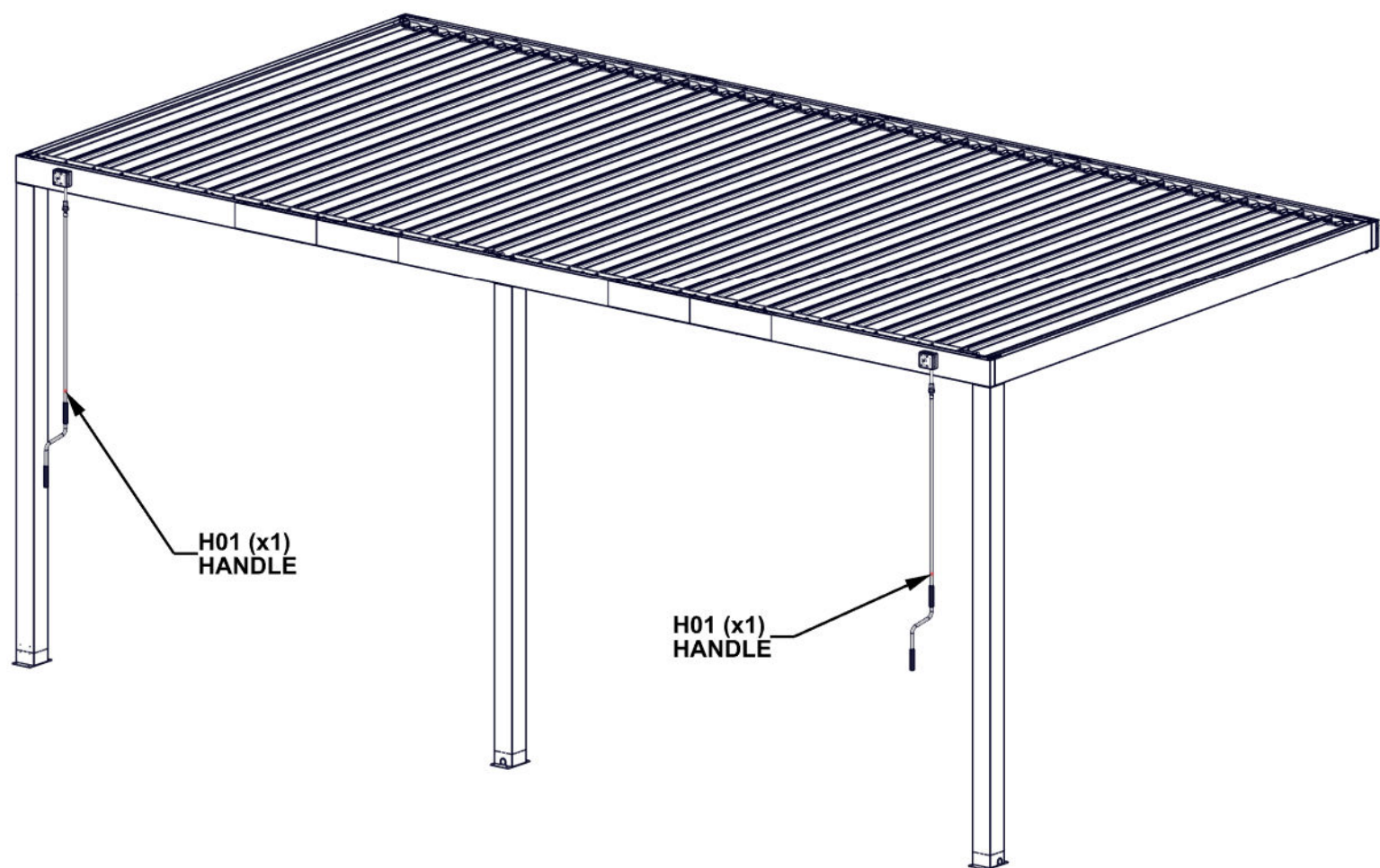
- LINKAGES MUST BE ORIENTED AS SHOWN BELOW.
- DO NOT OVERTIGHTEN HARDWARE.
- LINKAGES SHOULD BE ABLE TO ROTATE FREELY.



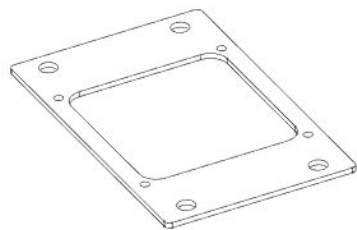
# STEP 28C - LOUVER MECHANISM



- CONNECT CRANK HANDLE TO MECHANISM. TURN HANDLE TO LOCK IN PLACE.



# STEP 29 - PERGOLA ANCHORING

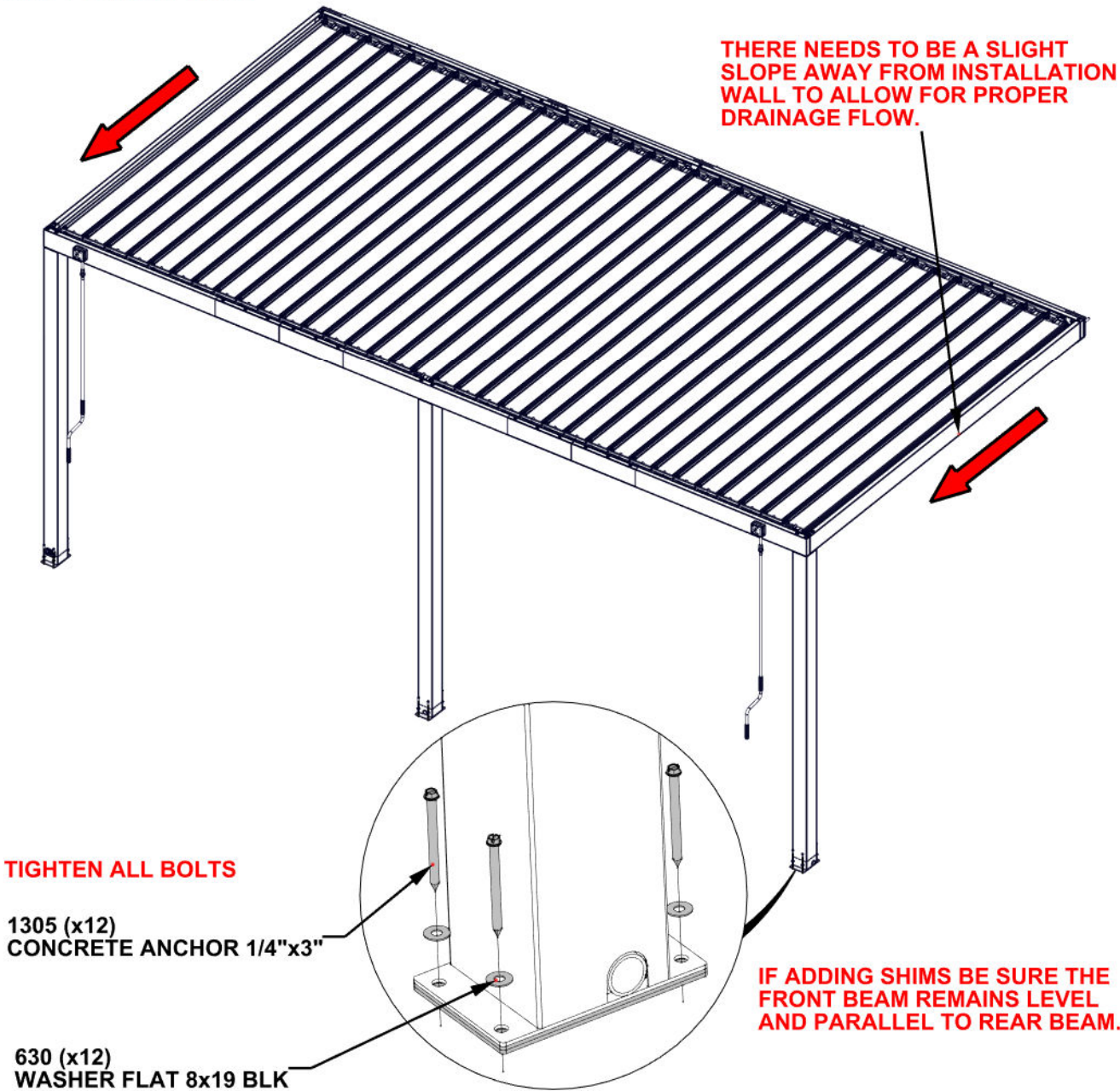


A4M04024 SHIM  
(x6)

| Qty | PartNo  | Description             |
|-----|---------|-------------------------|
| 12  | H101305 | CONCRETE ANCHOR 1/4"x3" |
| 12  | H100630 | WASHER FLAT 8x19 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" (5 mm ) CONCRETE DRILL BIT.
- REPEAT THIS STEP FOR ALL POSTS.



THERE NEEDS TO BE A SLIGHT SLOPE AWAY FROM INSTALLATION WALL TO ALLOW FOR PROPER DRAINAGE FLOW.

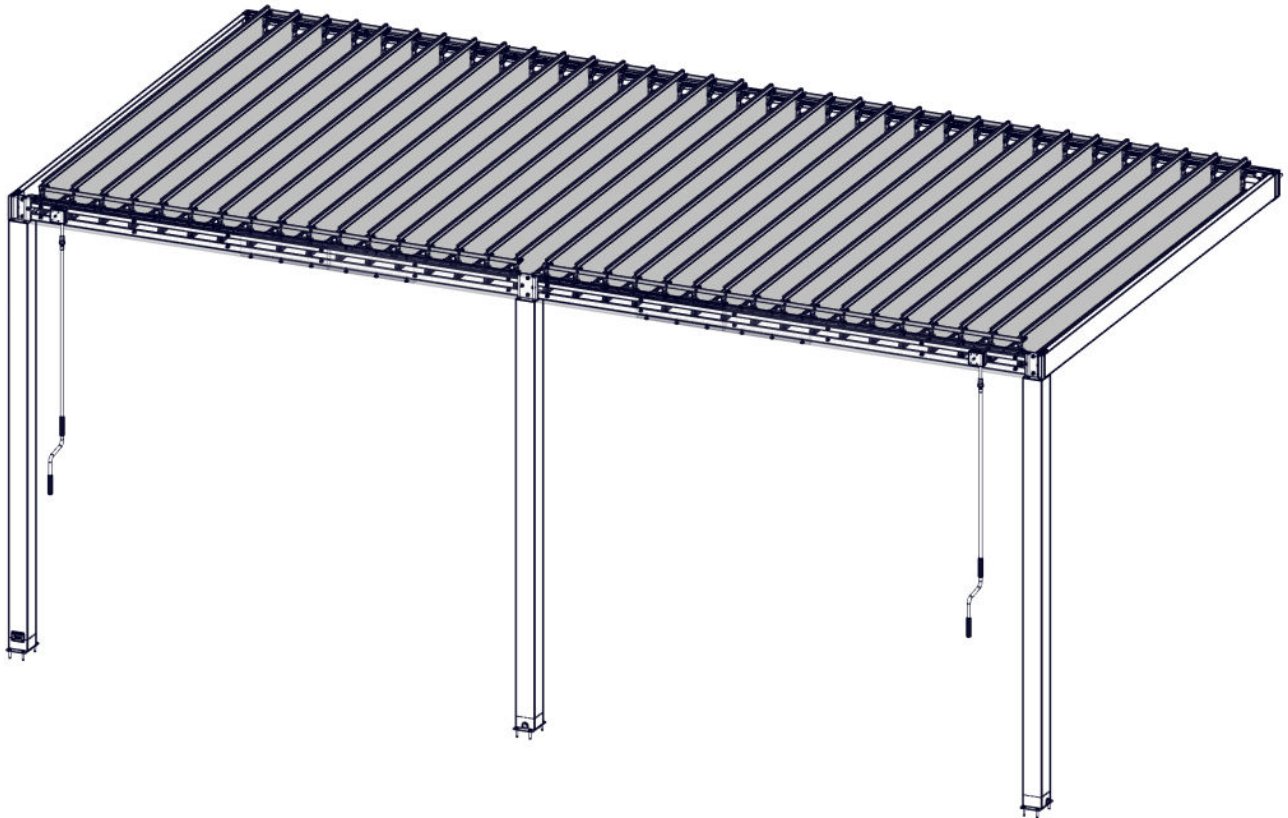
IF ADDING SHIMS BE SURE THE FRONT BEAM REMAINS LEVEL AND PARALLEL TO REAR BEAM.

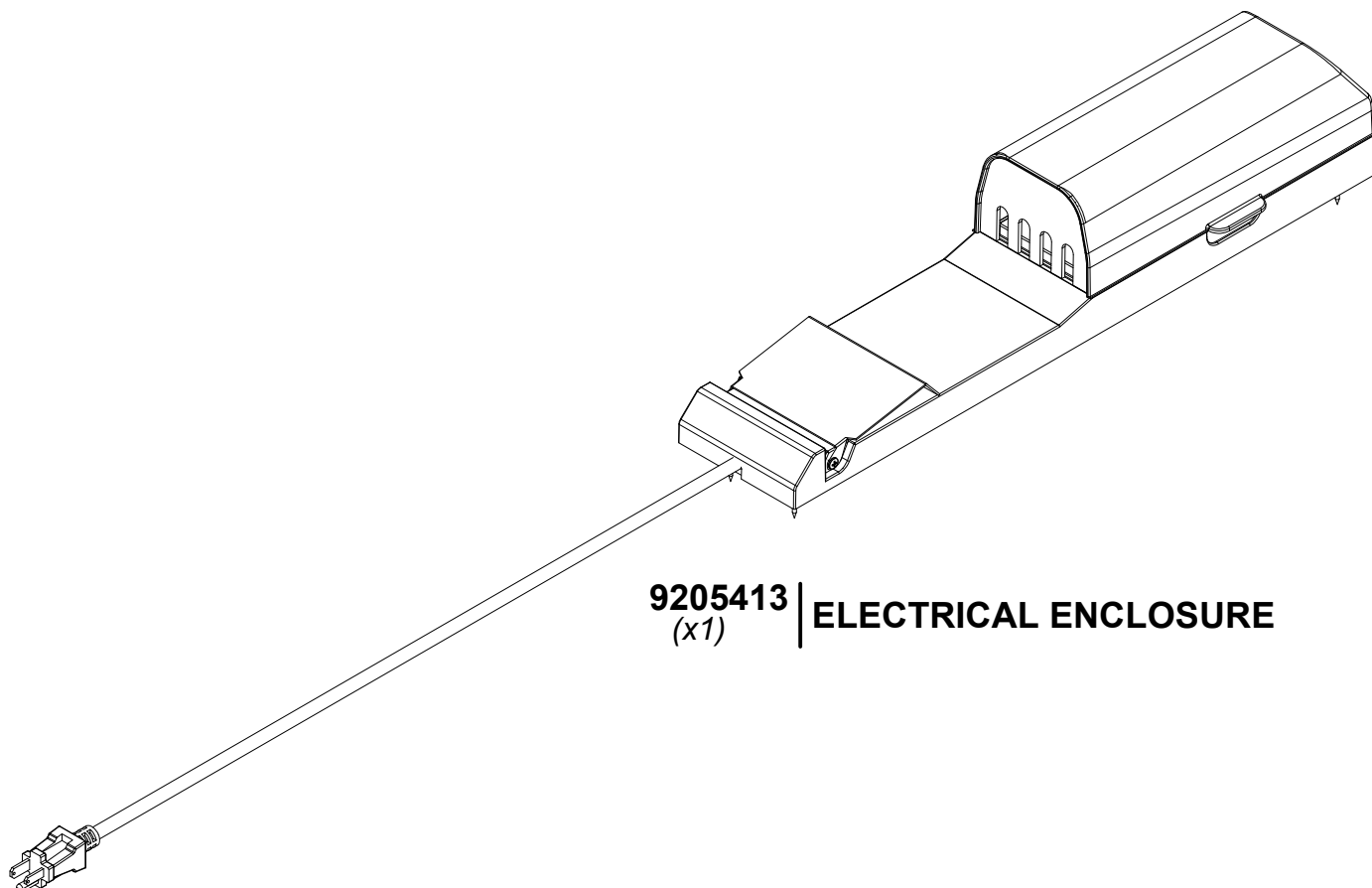
SHIMS ARE TO BE USED ONLY TO LEVEL PERGOLA DUE TO UNEVEN AND UNLEVEL AREAS ON FOUNDATION,



## STEP 30 - 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.**





**9205413**  
(x1) | **ELECTRICAL ENCLOSURE**

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.