



Manufactured by:  
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# 16x10 SARASOTA LOUVERED PERGOLA

## MODEL # : 2305113D / 2305113D-I



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



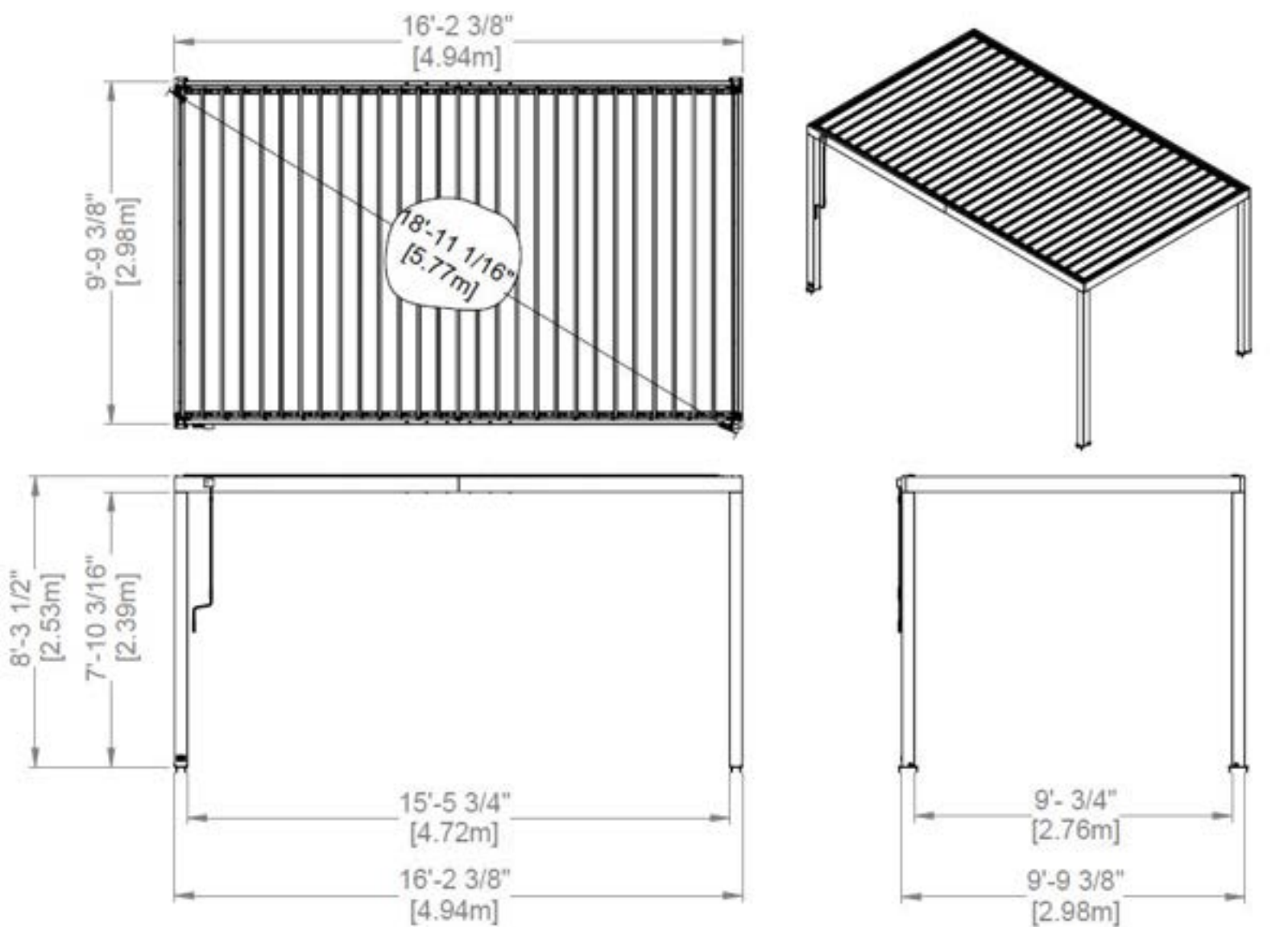
# OWNER'S MANUAL - BASIC SETUP DIMENSIONS & ASSEMBLY NOTES

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

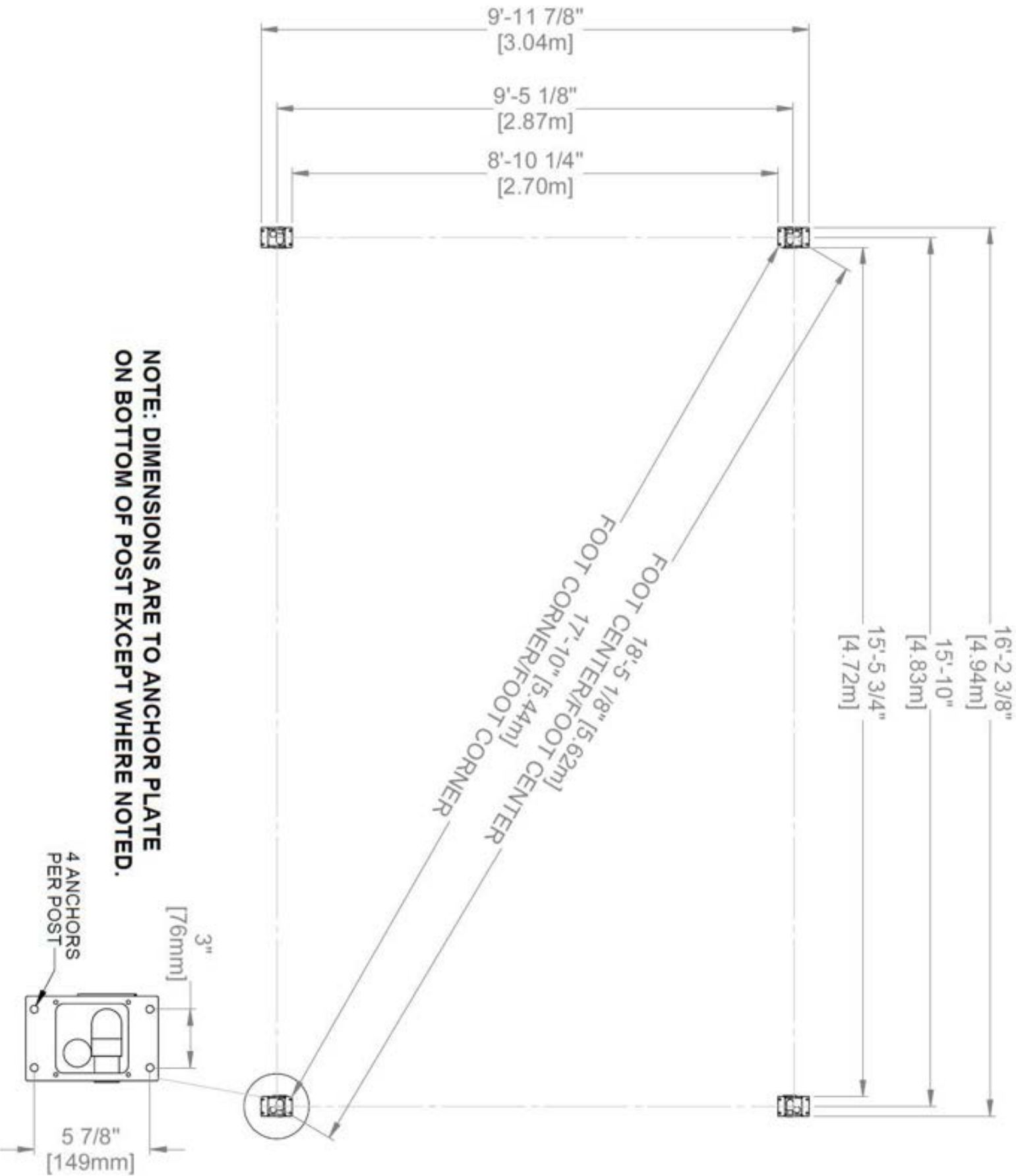
- Pay close attention to the items needed for each step. Make sure you are using the correct hardware for each step. Using incorrect hardware may result in improper assembly
- Remember to double check for underground utilities and overhead electrical lines

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 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



# OWNER'S MANUAL - PARTS IDENTIFICATION



P01 POST - A4M01983  
(x1) 4 5/16"x6 3/4"x99 1/2" (110x172x2527)



P02 POST - A4M01984  
(x2) 4 5/16"x6 3/4"x99 1/2" (110x172x2527)



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



L01 LOUVER - A4M04137  
(x28) 1 11/16"x7 3/4"x114 5/16" (42x196.2x2904)



G01 GUTTER - A4M01993  
(x2) 1 9/16"x1 15/16"x108 7/8" (40x50x2764)



G02 GUTTER - A4M02570  
(x2) 1 9/16"x1 15/16"x92 7/8" (40x50x2359)



G03 GUTTER - A4M02571  
(x2) 1 9/16"x1 15/16"x92 7/8" (40x50x2359)



M01 LOUVER MOUNT - A4M02577  
(x2) 1"x1 15/16"x92 13/16" (25x49x2357)

# OWNER'S MANUAL - PARTS IDENTIFICATION



M02 LOUVER MOUNT - A4M02578  
(x1) 1"x1 15/16"x92 13/16" (25x49x2357)



M03 LOUVER MOUNT - A4M02579  
(x1) 1"x1 15/16"x92 13/16" (25x49x2357)



F01 FLAT BAR - A4M02572  
(x4) 1/16"x1"x92 13/16" (2x25x2357)



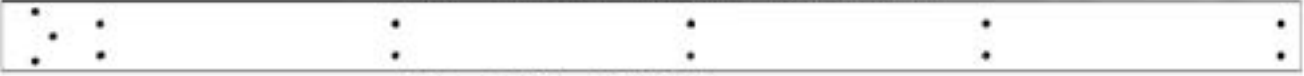
F02 LOUVER TIE STRAP - A4M02573  
(x4) 1/8"x13/16"x95" (3x20x2414)



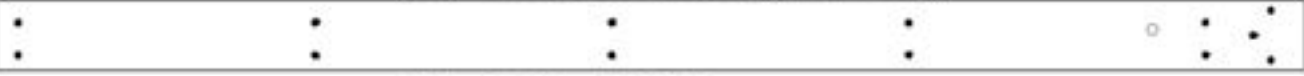
B01 BEAM - A4M01986  
(x2) 1 7/16"x5 1/4"x114 1/2" (36x134x2910)



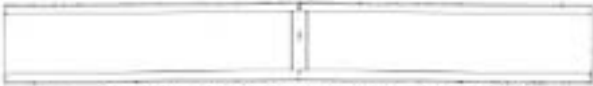
B02 BEAM - A4M02574  
(x1) 1 7/16"x5 1/4"x97 3/16" (36x134x2468)



B03 BEAM - A4M02575  
(x2) 1 7/16"x5 1/4"x97 3/16" (36x134x2468)



B04 BEAM - A4M02576  
(x1) 1 7/16"x5 1/4"x97 3/16" (36x134x2468)



J2 SPLICE BRACKET ASSY - A4M06579  
(x2) 39 1/2"x5 1/8"x1 1/4" (32.00x131x1003)



G05 GUTTER SPLICE - A4M02004  
(x2) 1 7/16"x2 1/16"x3 15/16" (36x52.5x100)



A6P00796 SILICONE  
(x1)



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

# OWNER'S MANUAL - PARTS IDENTIFICATION



L02 LOUVER DRIVE SIDE PLATE - A4M04139  
(x1) 1/16"x2 3/16"x6 9/16" (2x55x167)



L03 LOUVER SIDE PLATE - A4M04138  
(x55) 1/16"x2 3/16"x6 9/16" (2x55x167)



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



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



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



F03 LINKAGE STRAP - A4M02229  
(x1) 1/2"x11/16"x3 13/16" (13x17x97)



L04 LOUVER MECHANISM  
(x1) A4M02132



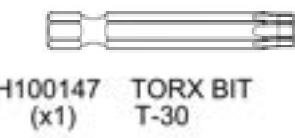
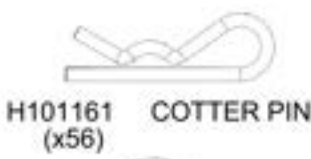
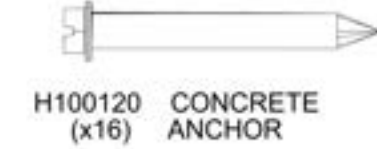
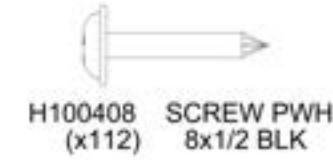
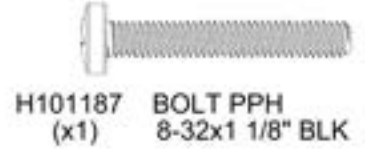
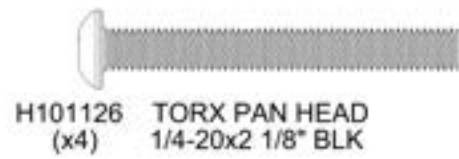
H01 HANDLE  
(x1) A4M04022



9205413 ELECTRICAL  
(x1) ENCLOSURE

# OWNER'S MANUAL - PARTS IDENTIFICATION

## HARDWARE COMPONENTS (NOT TO SCALE)



# 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.

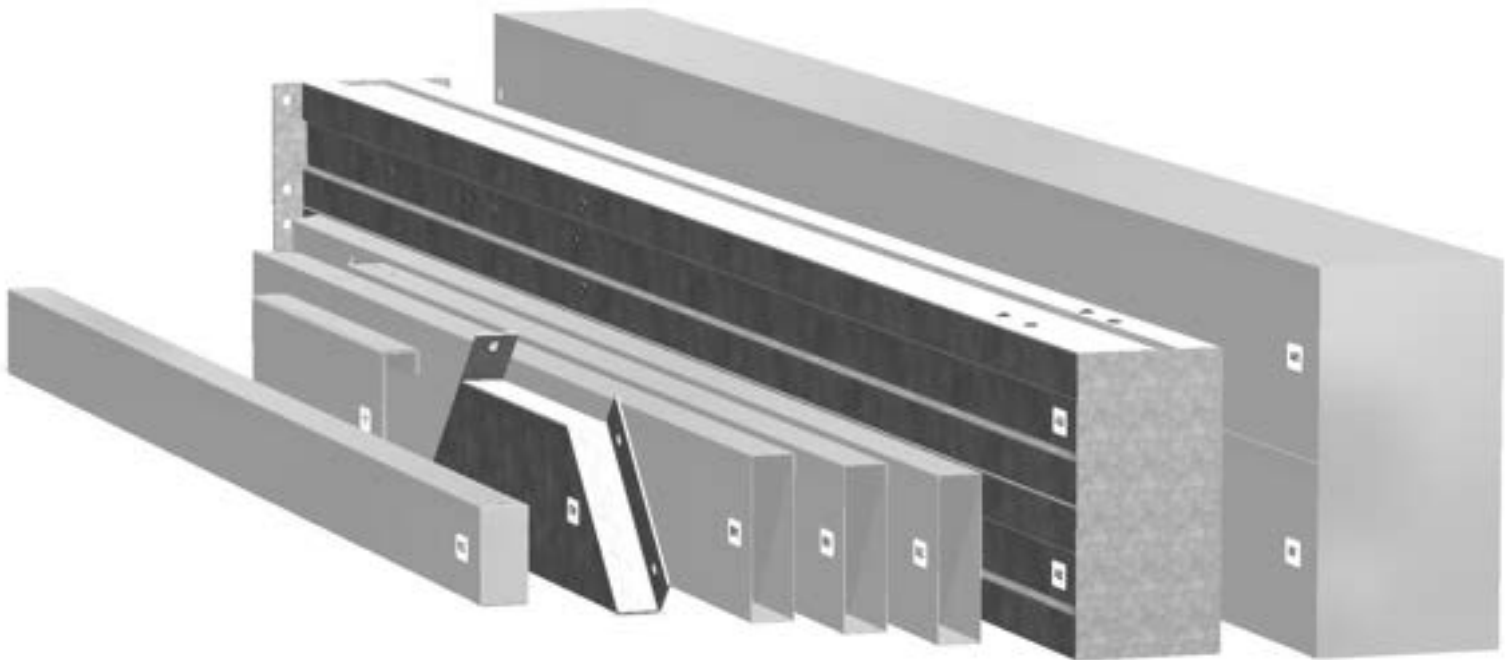
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## METAL PARTS:

- Organize metal parts by the three-digit, alpha-numeric number printed on part bag (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.

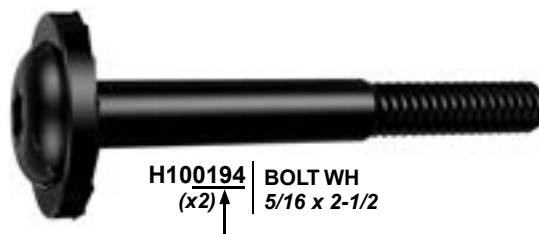
**NOTE: CARTONS ARE NOT ORGANIZED BY PART NUMBER.**

**IT IS RECOMMENDED TO LEAVE LOUVER ASSEMBLIES IN BOX UNTIL NEEDED.**

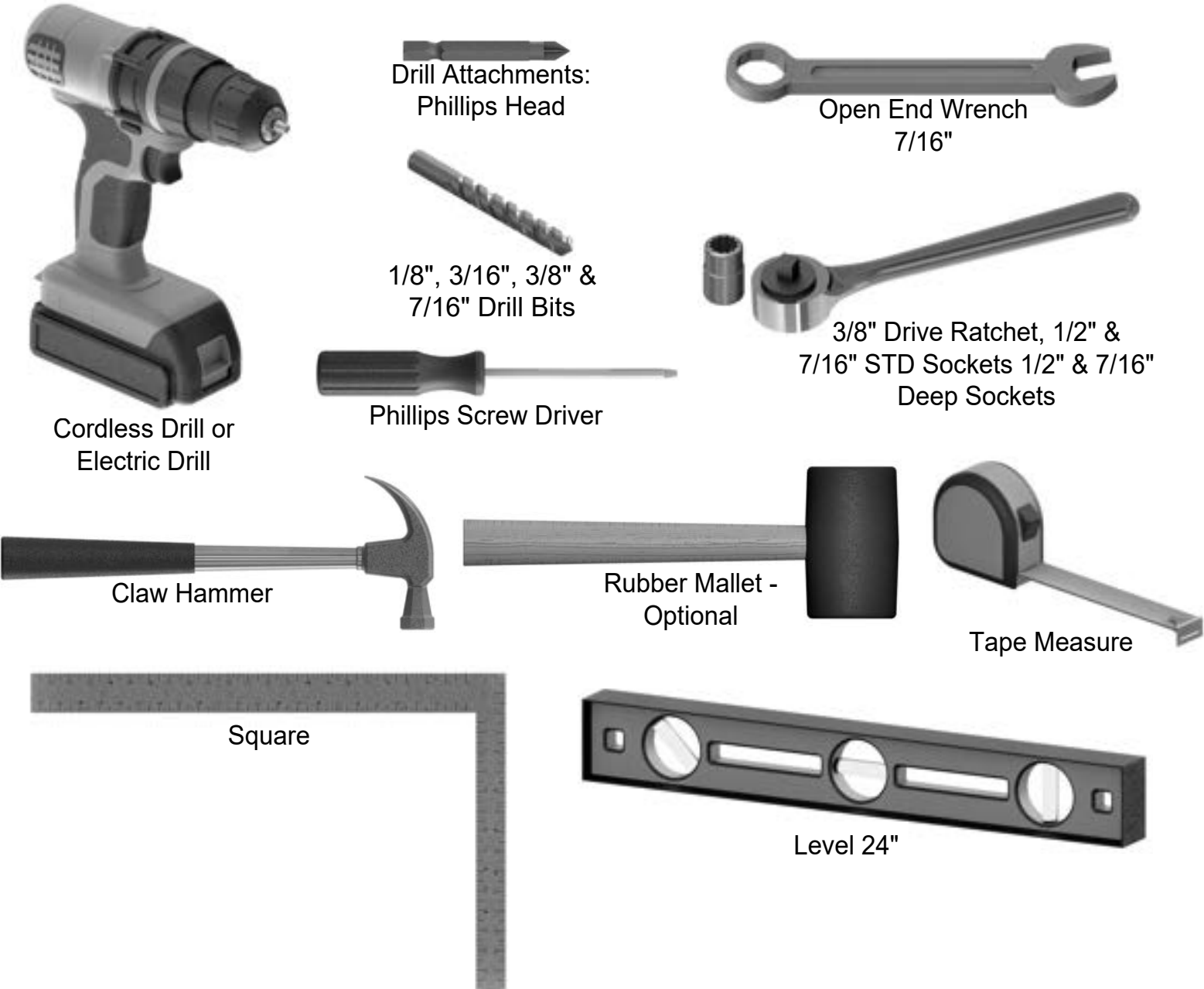


## HARDWARE PARTS:

- 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 (i.e. bolts, nuts, etc.).
- During assembly you only need to reference the last four digits of the number.



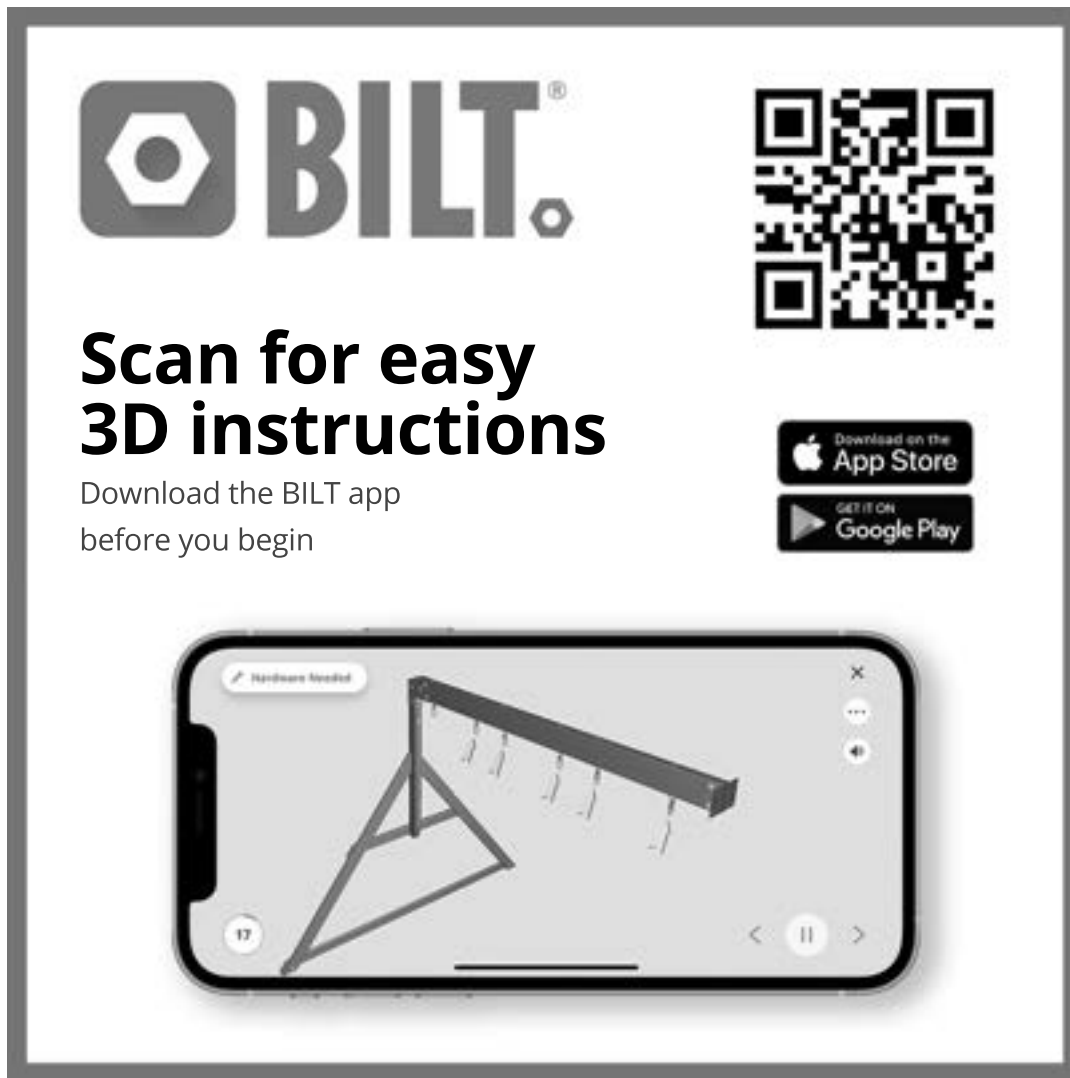
**PRE-ASSEMBLY STEP 2 - TOOLS REQUIRED**



# 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)



# STEP 1 - BEAM ASSEMBLY

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

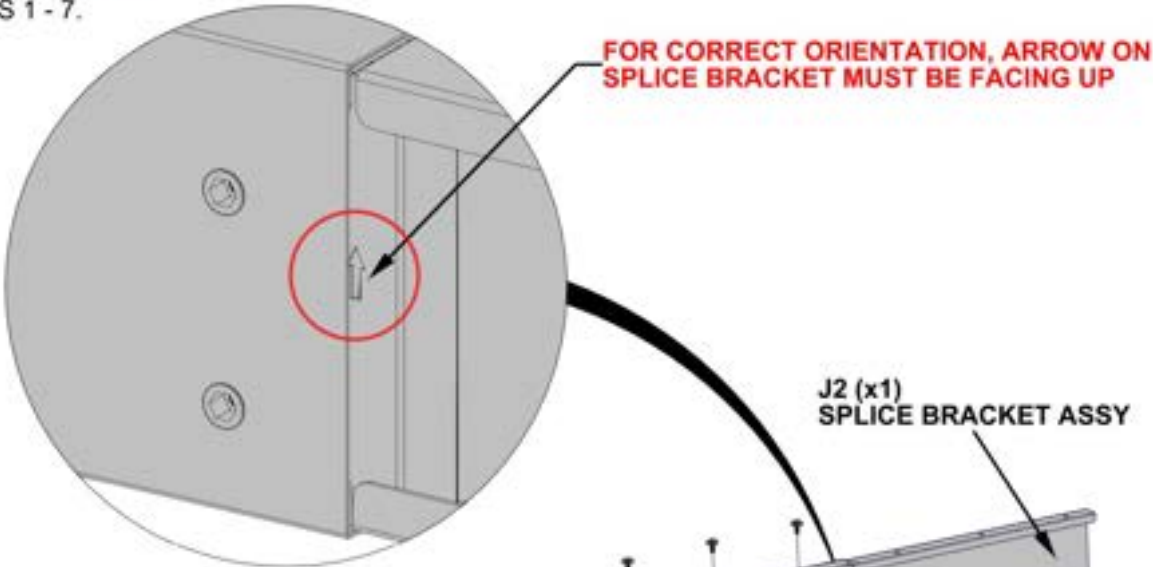


B03 BEAM - A4M02575  
(x1) 1 7/16"x5 1/4"x97 3/16" (36x134x2468)



J2 SPLICE BRACKET ASSY - A4M06579  
(x1) 39 1/2"x5 1/8"x1 1/4" (32.00x131x1003)

**DO NOT TIGHTEN HARDWARE AT THIS STEP**  
FOR EASE OF ASSEMBLY, WE RECOMMEND  
USING SAW HORSES FOR STEPS 1 - 7.

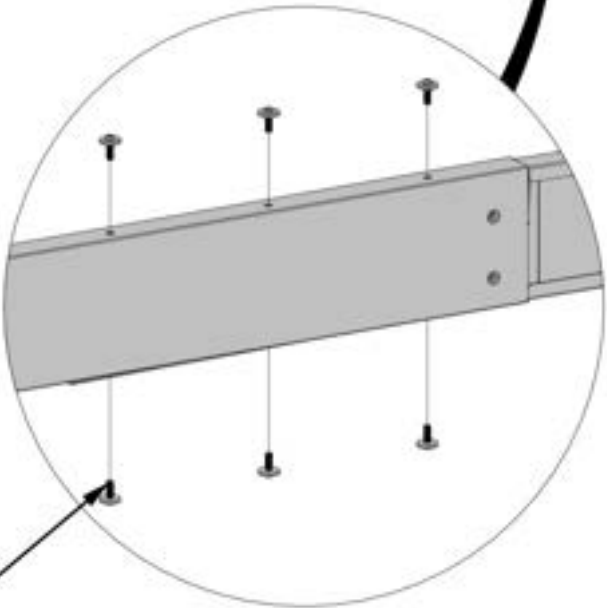


**FOR CORRECT ORIENTATION, ARROW ON  
SPLICE BRACKET MUST BE FACING UP**

J2 (x1)  
SPLICE BRACKET ASSY

B03 (x1)  
BEAM

**NOTE: BEAM AND SPLICE MUST BE  
ORIENTED AS SHOWN BELOW.  
SLIDE J2 INTO B03 AND LINE UP  
THREE HOLES TOP AND BOTTOM.**



1202 (x6)  
TORX PAN HEAD 1/4-20x3/4 ASSY

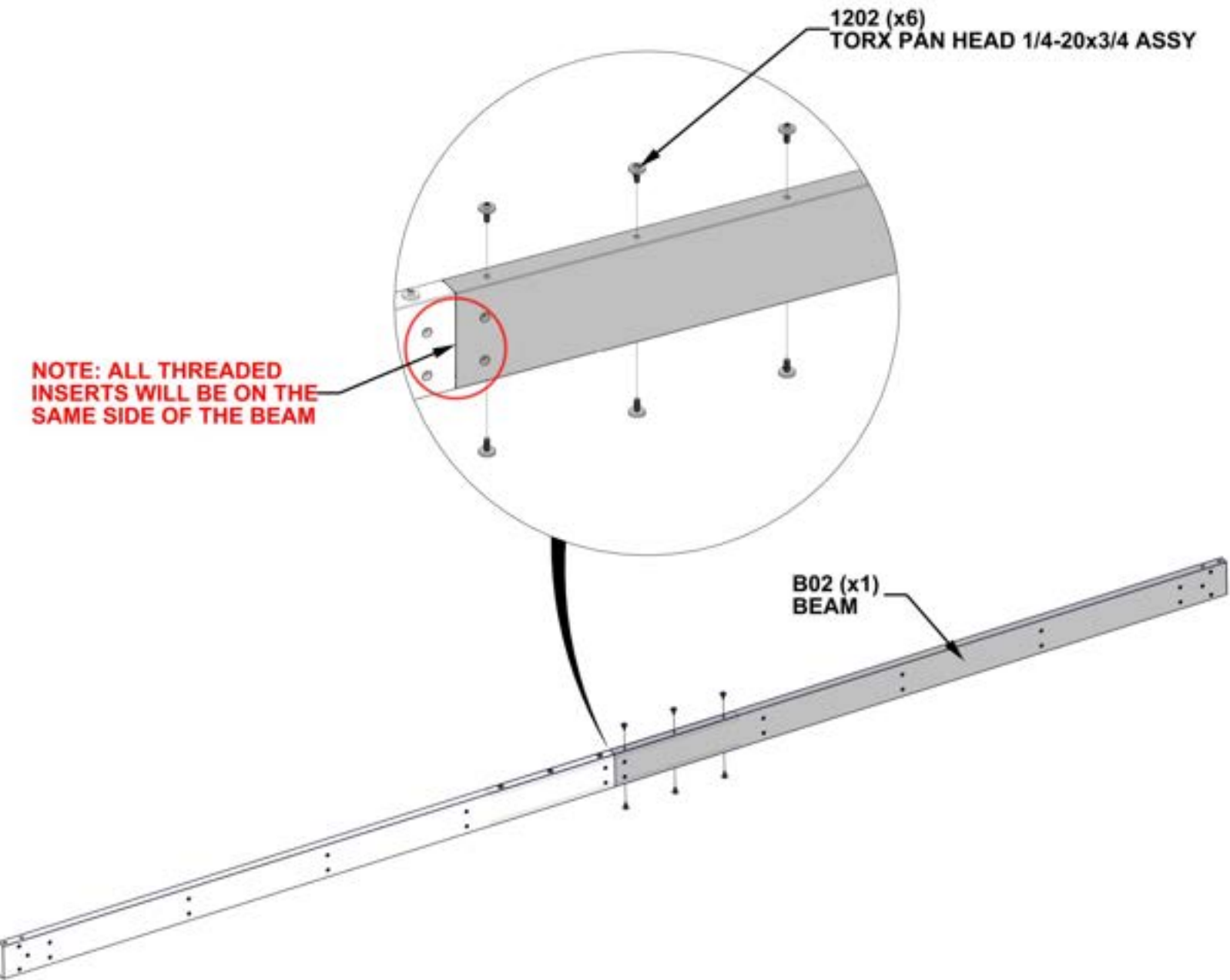
STEP 2 - BEAM ASSEMBLY

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



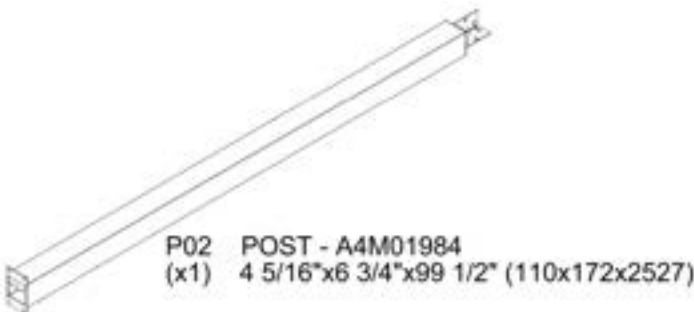
B02 BEAM - A4M02574  
(x1) 1 7/16"x5 1/4"x97 3/16" (36x134x2468)

SLIDE B02 INTO SPLICE BRACKET.  
GENTLY TAP ENDS OF ASSEMBLY WITH  
RUBBER Mallet UNTIL GAP CLOSES,  
THEN TIGHTEN ALL BOLTS ON BEAM.



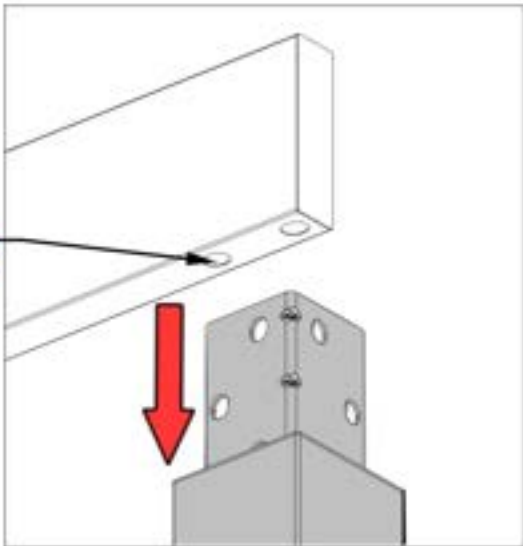
# STEP 3A - FRAME ASSEMBLY

| QTY | PartNo  | Description         |
|-----|---------|---------------------|
| 2   | H101230 | BOLT WH 5/16x6 S.S. |

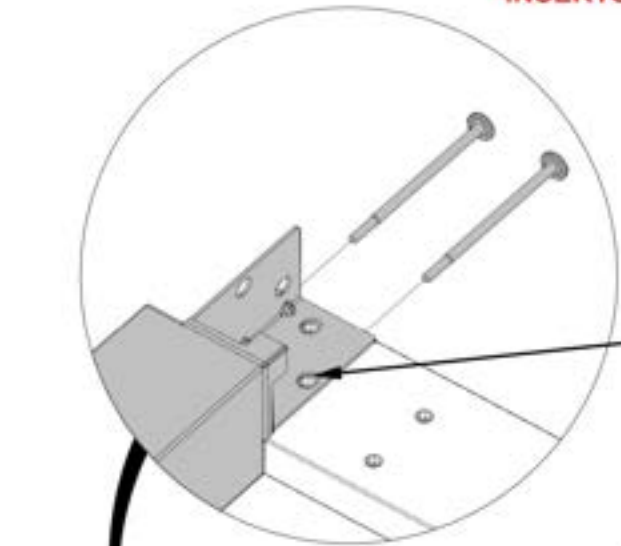


ATTACH BEAM ASSEMBLY TO POST BY ALIGNING SLOTS IN BEAM WITH THREADED INSERTS ON POST PLATE. FLUSH ALL SIDES OF BEAM AND POST BEFORE TIGHTENING HARDWARE.

NOTE: LARGE SLOTS INDICATE BOTTOM SURFACE OF BEAM. SLOTS WILL FIT AROUND THREADED INSERTS IN POST PLATE.



NOTE: POST BRACKET WILL FIT AROUND THREADED INSERTS IN BEAM

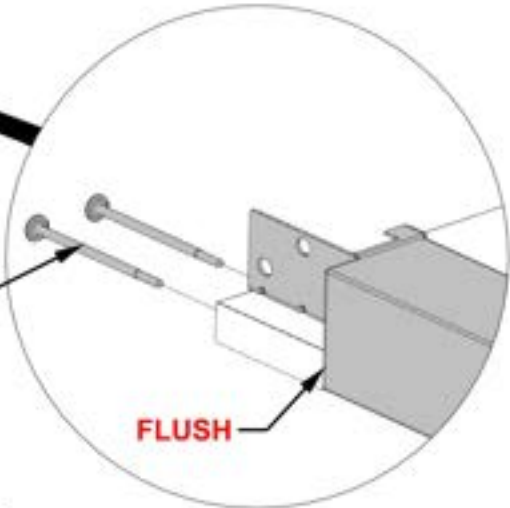


BEAM ASSEMBLY  
STEP 1 - 2



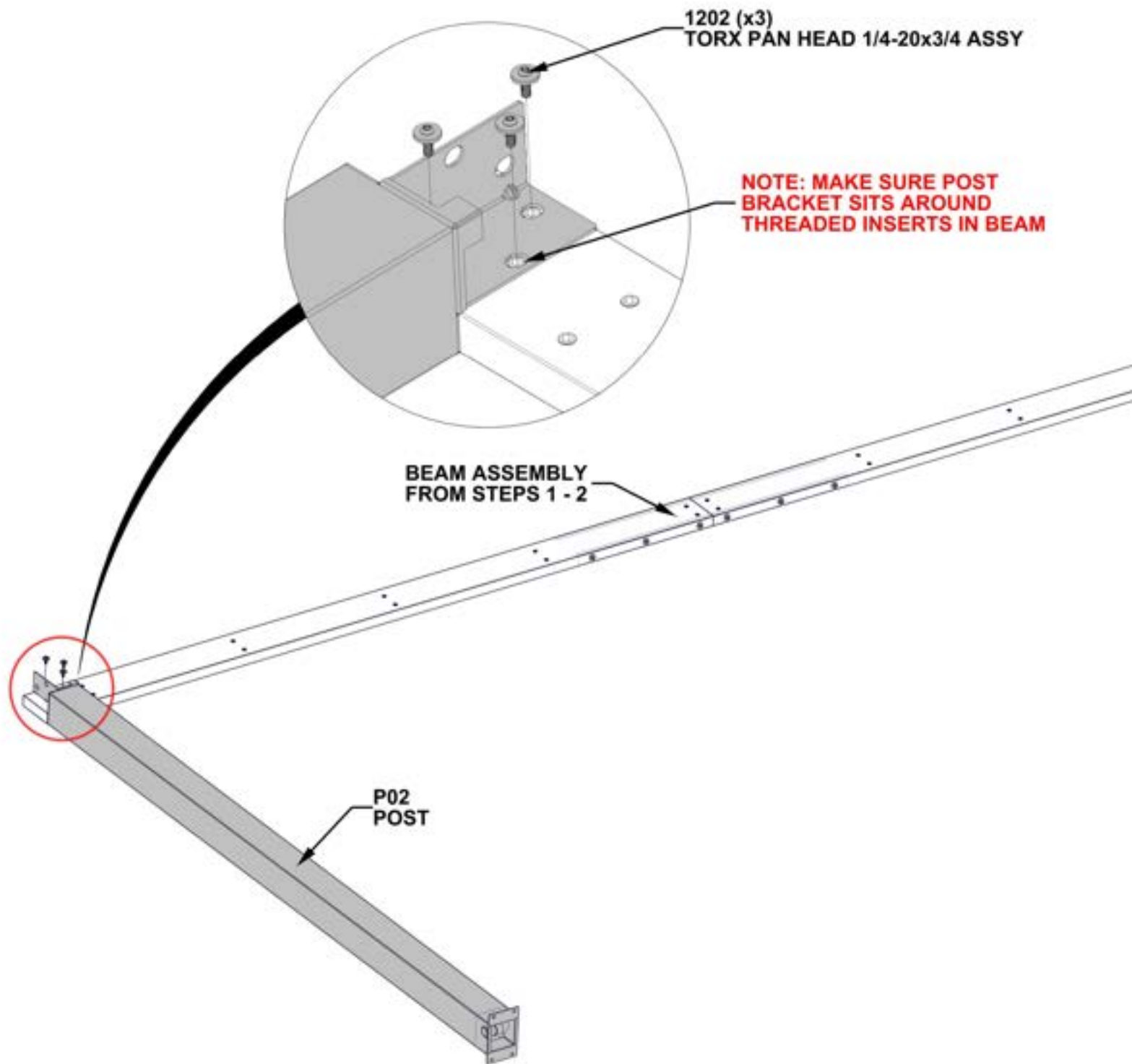
P02 (x1)  
POST

1230 (x2)  
BOLT - 6"

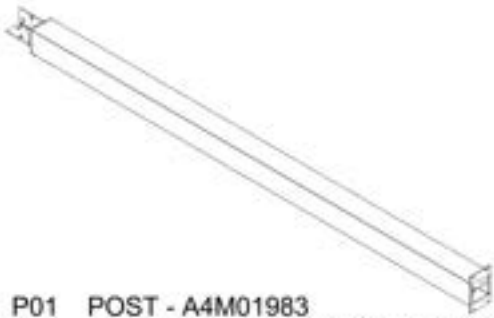


# STEP 3B - FRAME ASSEMBLY

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



# STEP 4A - FRAME ASSEMBLY

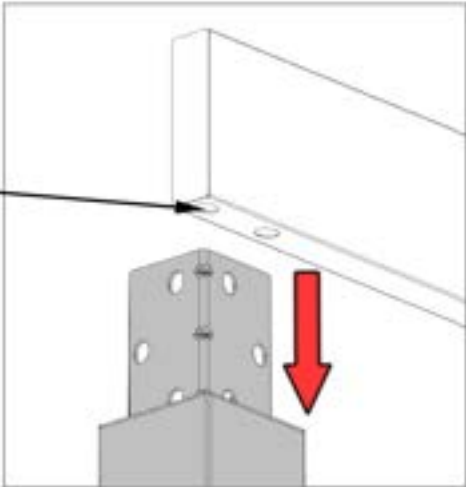


| QTY | PartNo  | Description         |
|-----|---------|---------------------|
| 2   | H101230 | BOLT WH 5/16x6 S.S. |

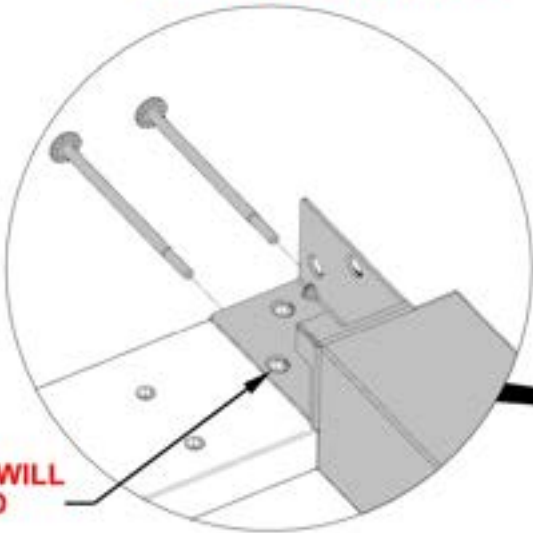
P01 POST - A4M01983  
(x1) 4 5/16"x6 3/4"x99 1/2" (110x172x2527)

ATTACH BEAM ASSEMBLY TO POST BY ALIGNING SLOTS IN BEAM WITH THREADED INSERTS ON POST PLATE. FLUSH ALL SIDES OF BEAM AND POST BEFORE TIGHTENING HARDWARE.

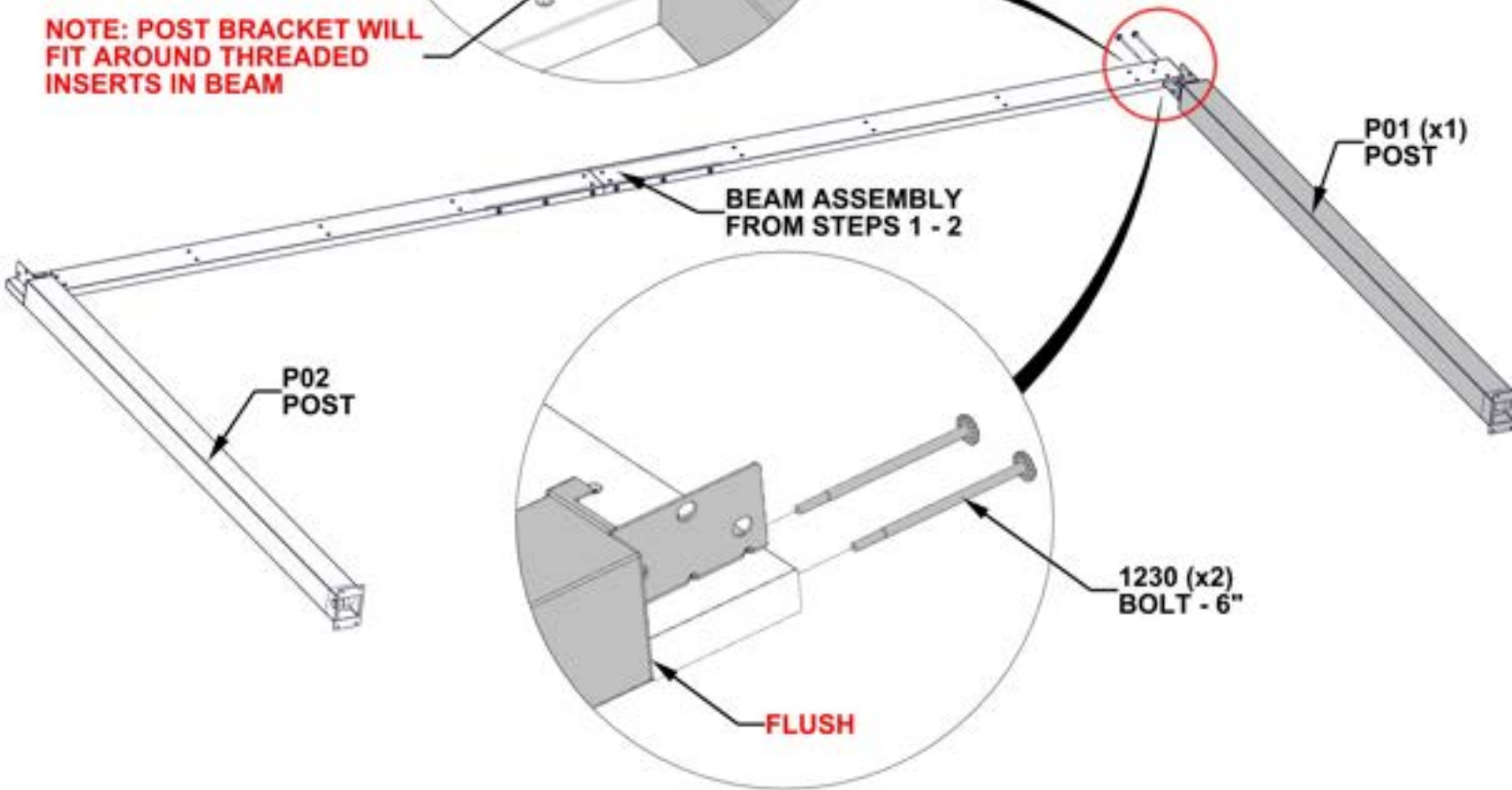
NOTE: LARGE SLOTS INDICATE BOTTOM SURFACE OF BEAM. SLOTS WILL FIT AROUND THREADED INSERTS IN POST PLATE.



BACK VIEW

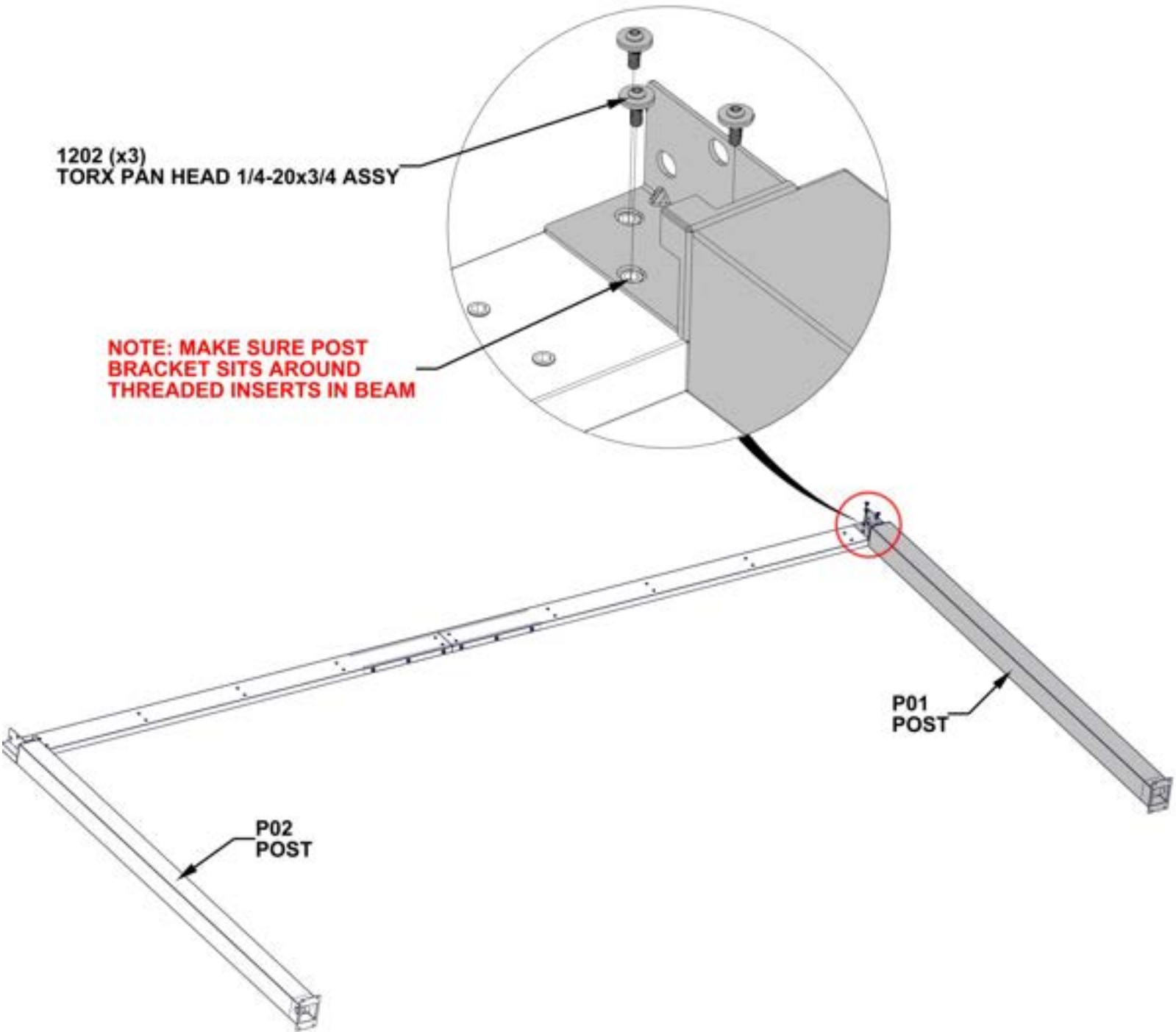


NOTE: POST BRACKET WILL FIT AROUND THREADED INSERTS IN BEAM

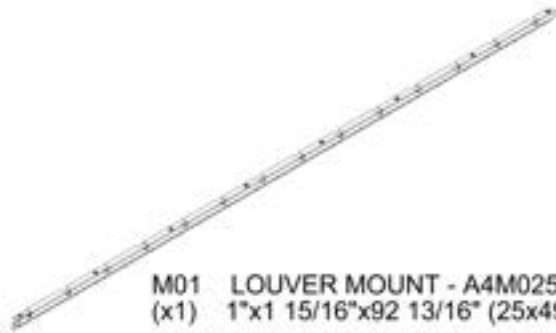


# STEP 4B - FRAME ASSEMBLY

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

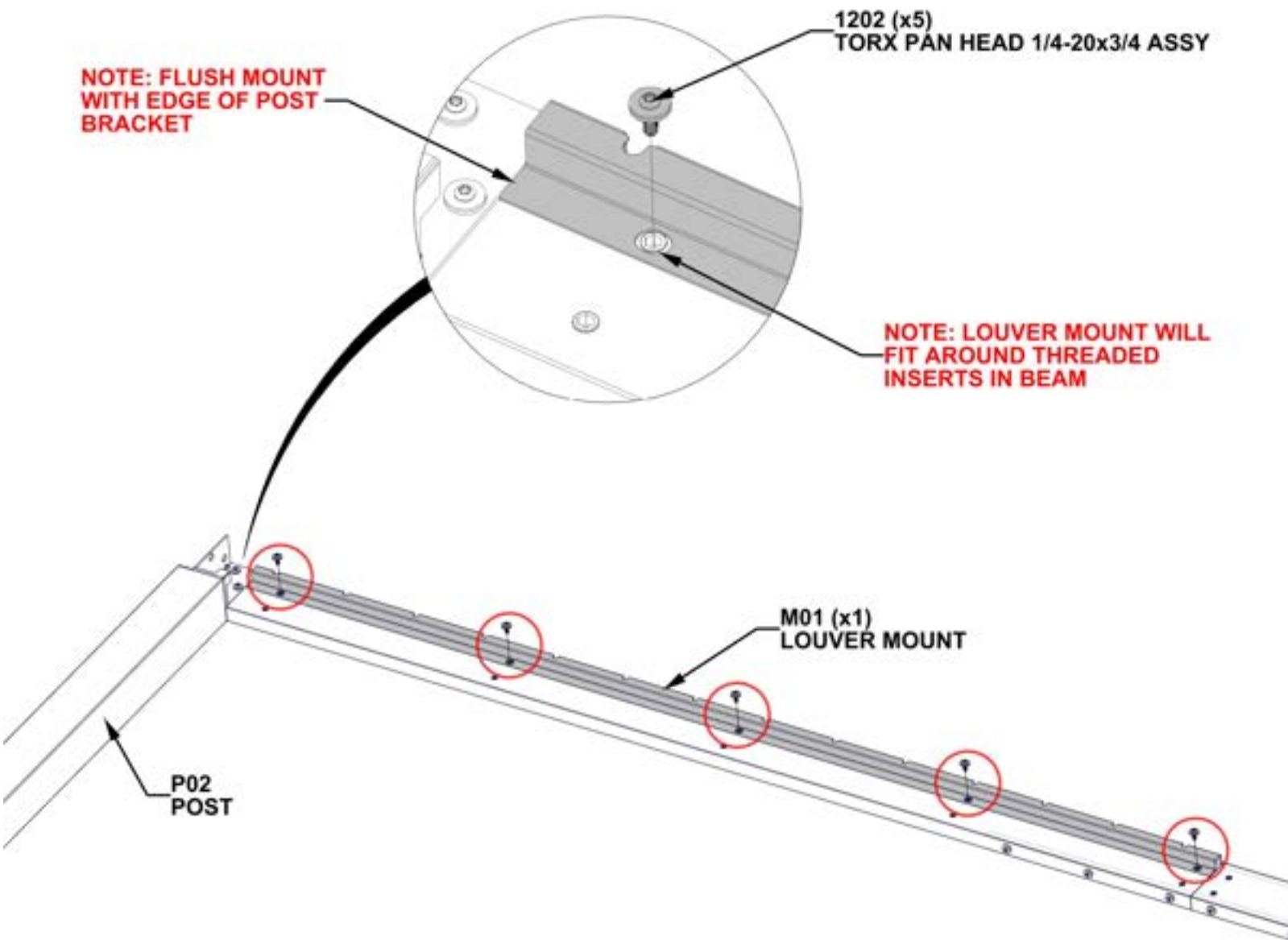


# STEP 5 - LOUVER MOUNT ATTACHMENT



M01 LOUVER MOUNT - A4M02577  
(x1) 1"x1 15/16"x92 13/16" (25x49x2357)

| QTY | PartNo  | Description                   |
|-----|---------|-------------------------------|
| 5   | H101202 | TORX PAN HEAD 1/4-20x3/4 ASSY |

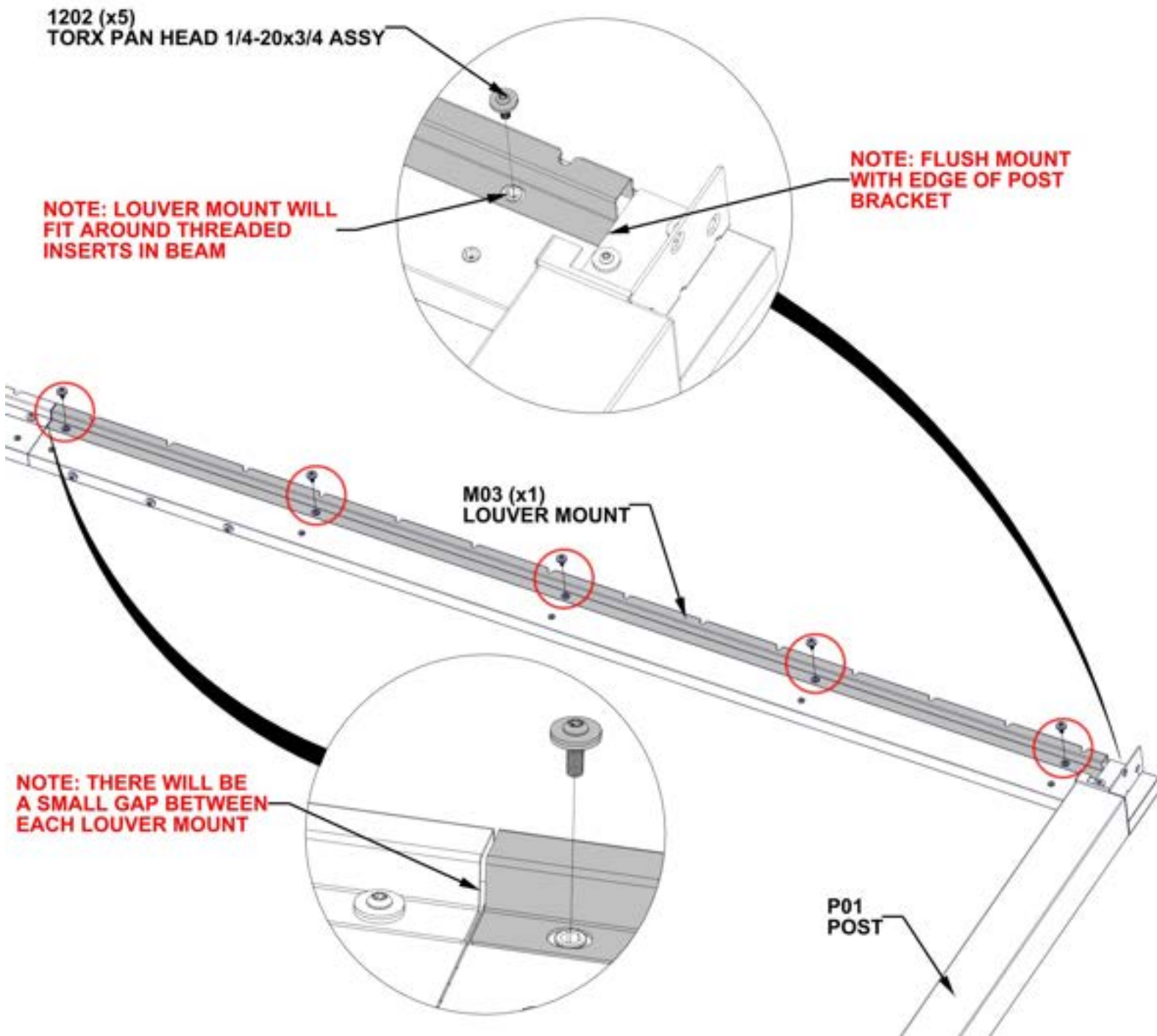


STEP 6 - LOUVER MOUNT ATTACHMENT



| QTY | PartNo  | Description                   |
|-----|---------|-------------------------------|
| 5   | H101202 | TORX PAN HEAD 1/4-20x3/4 ASSY |

M03 LOUVER MOUNT - A4M02579  
(x1) 1"x1 15/16"x92 13/16" (25x49x2357)



## STEP 7A - GUTTER ASSEMBLY



G02 GUTTER - A4M02570  
(x1) 1 9/16"x1 15/16"x92 7/8" (40x50x2359)

G03 GUTTER - A4M02571  
(x1) 1 9/16"x1 15/16"x92 7/8" (40x50x2359)

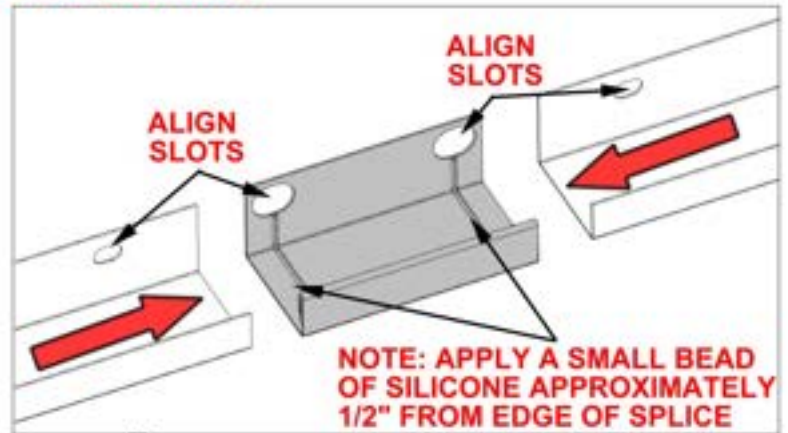
G05 GUTTER SPLICE - A4M02004  
(x1) 1 7/16"x2 1/16"x3 15/16" (36x52.5x100)

**MEASURE APPROXIMATELY 1/2" [12.7mm] FROM EACH END OF GUTTER SPLICE AND APPLY A FINE BEAD OF SILICONE.**

**SLIDE BOTH G02 AND G03 GUTTERS INTO SPLICE UNTIL ENDS ARE ALMOST TOUCHING. WIPE EXCESS SILICONE USING A RAG OR PAPER TOWEL.**

TIP: GLOVES ARE RECOMMENDED WHEN APPLYING SILICONE

MAKE SURE SURFACE OF GUTTER SPLICE IS CLEAN, DRY, AND FREE OF ANY DIRT/DEBRIS

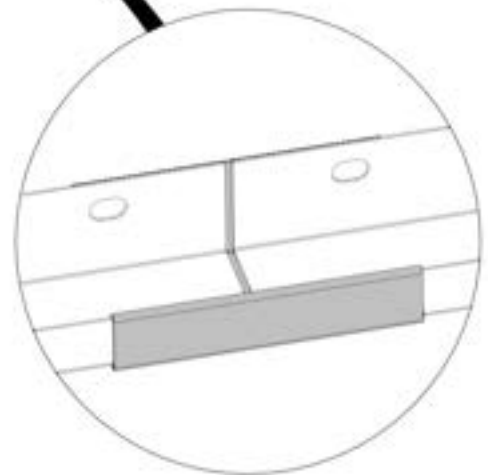
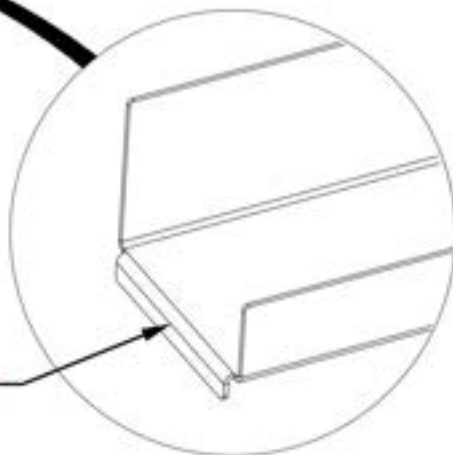


G02 (x1)  
GUTTER

G05 (x1)  
GUTTER SPLICE

G03 (x1)  
GUTTER

**NOTE: GUTTER ENDS WILL HAVE A BOTTOM FLANGE**



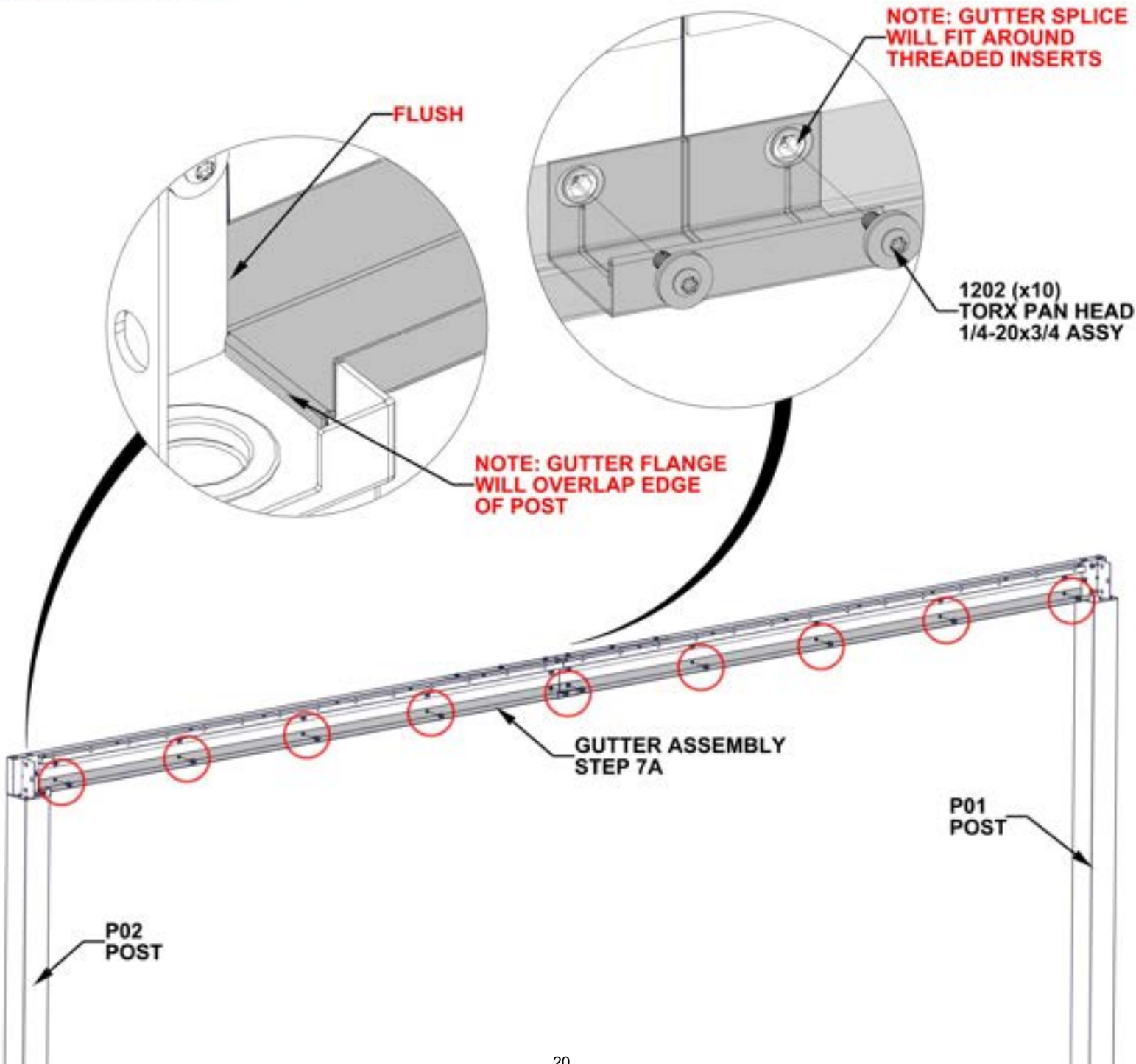
# STEP 7B - GUTTER ATTACHMENT

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



WITH AT LEAST TWO PEOPLE, ATTACH GUTTER ASSEMBLY FROM PREVIOUS STEP TO BEAM.

MAKE SURE ENDS OF GUTTER SIT ON TOP SURFACE OF EACH POST BRACKET.



## STEP 7C - SEALANT



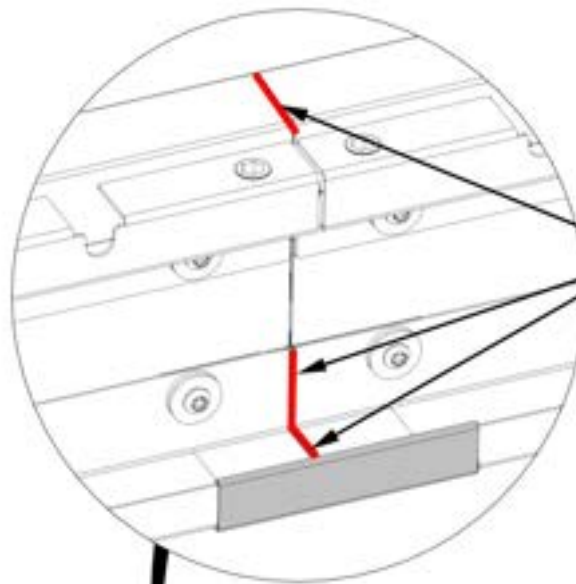
A6P00796 SILICONE  
(x1)

**APPLY A FINE BEAD OF SILICONE ON TOP EDGE OF BEAM AND ALONG THE INSIDE SURFACE OF GUTTER WHERE TWO GUTTER PIECES MEET.**

**SMOOTH SILICONE ALONG SEAM, WIPING EXCESS USING A RAG OR PAPER TOWEL.**

TIP: GLOVES ARE RECOMMENDED WHEN APPLYING SILICONE.

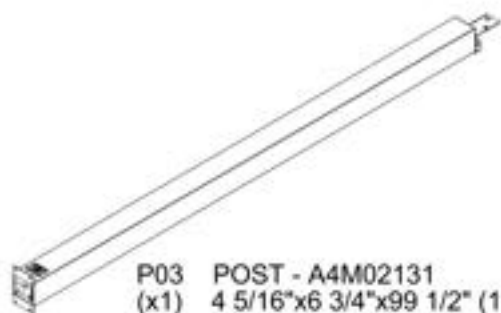
MAKE SURE SURFACE OF GUTTER IS CLEAN, DRY, AND FREE OF ANY DIRT/DEBRIS.



**NOTE: APPLY A FINE BEAD OF SILICONE ALONG TOP SURFACE OF BEAM AND INSIDE SEAM OF GUTTER**



STEP 8A - FRAME ASSEMBLY



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

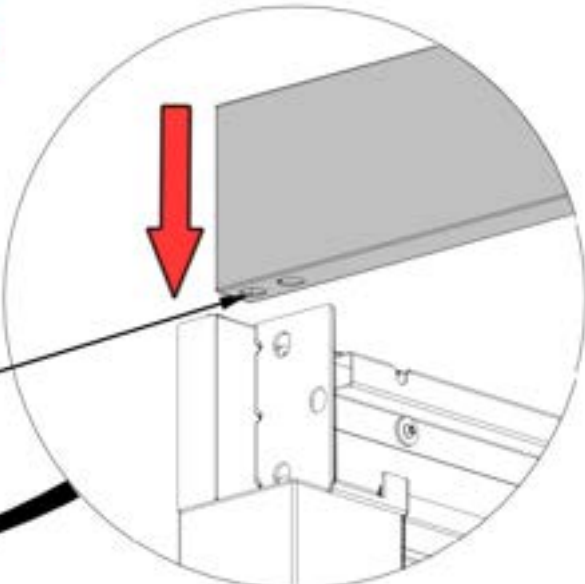


WITH AT LEAST TWO EXTRA PEOPLE, ATTACH B01 BEAM TO P02 AND P03 POST.

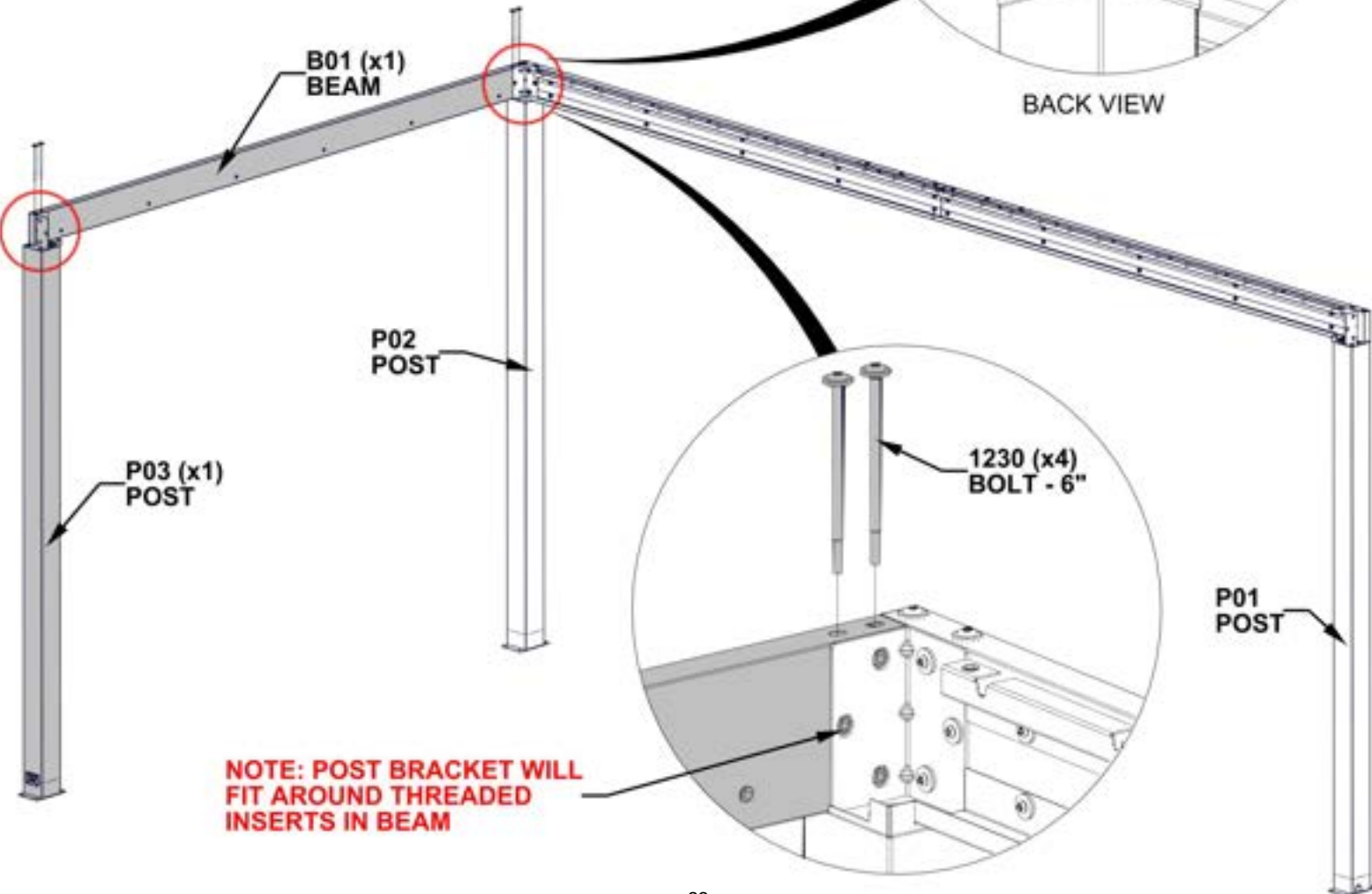
ALIGN SLOTS IN BEAM WITH THREADED INSERTS ON TOP PLATE. FLUSH ALL SIDES OF BEAM AND POST.

DO NOT TIGHTEN HARDWARE AT THIS STEP.

NOTE: LARGE SLOTS INDICATE BOTTOM SURFACE OF BEAM. SLOTS WILL FIT AROUND THREADED INSERTS IN POST PLATE.



BACK VIEW

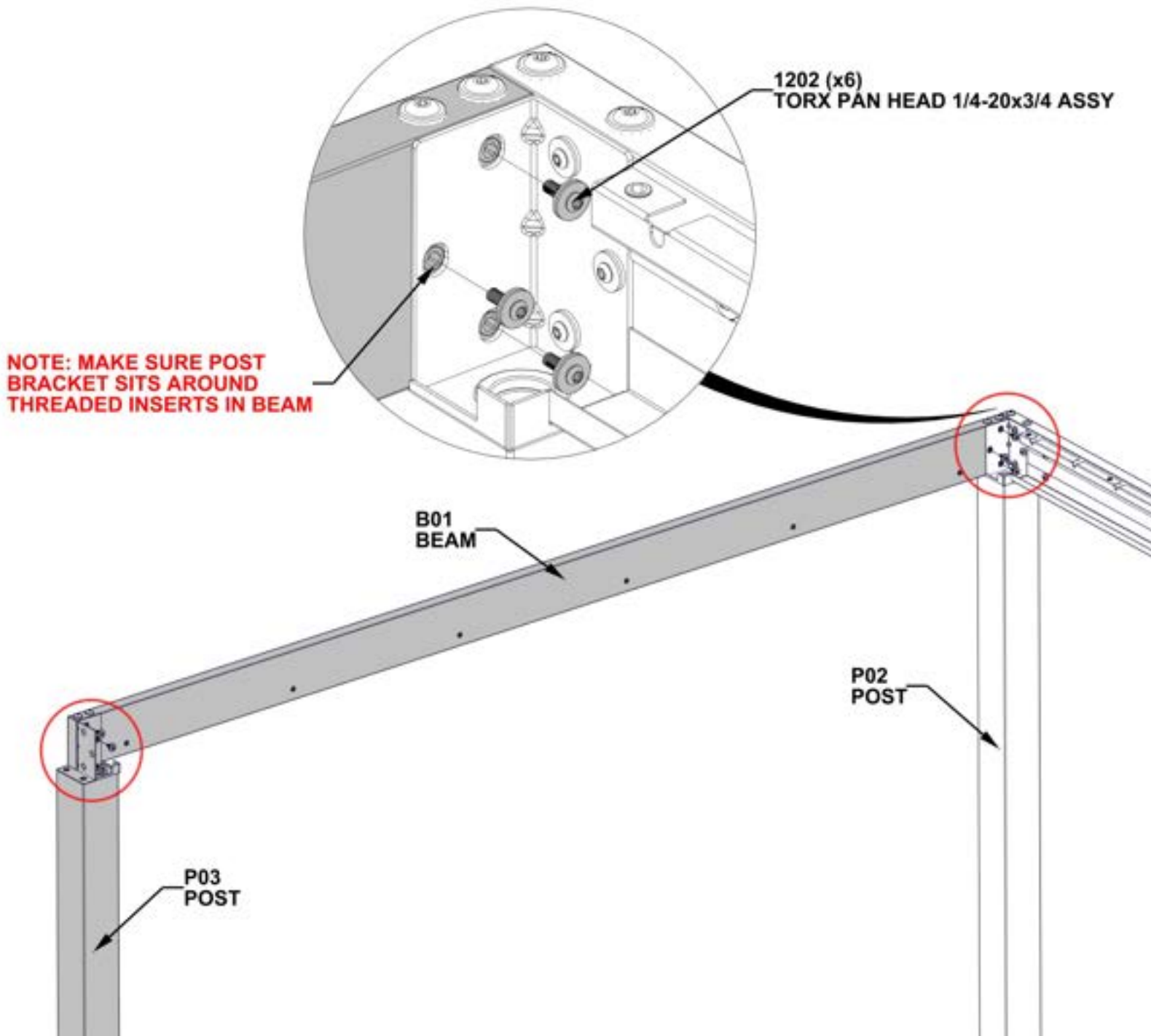


NOTE: POST BRACKET WILL FIT AROUND THREADED INSERTS IN BEAM

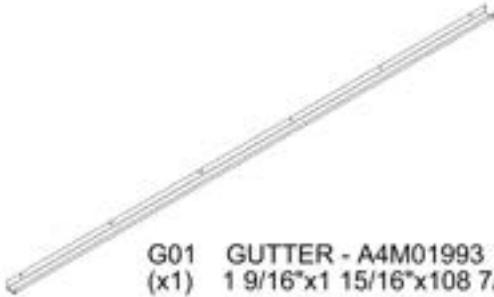
## STEP 8B - FRAME ASSEMBLY

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

**DO NOT TIGHTEN HARDWARE AT THIS STEP**



# STEP 9 - GUTTER ATTACHMENT

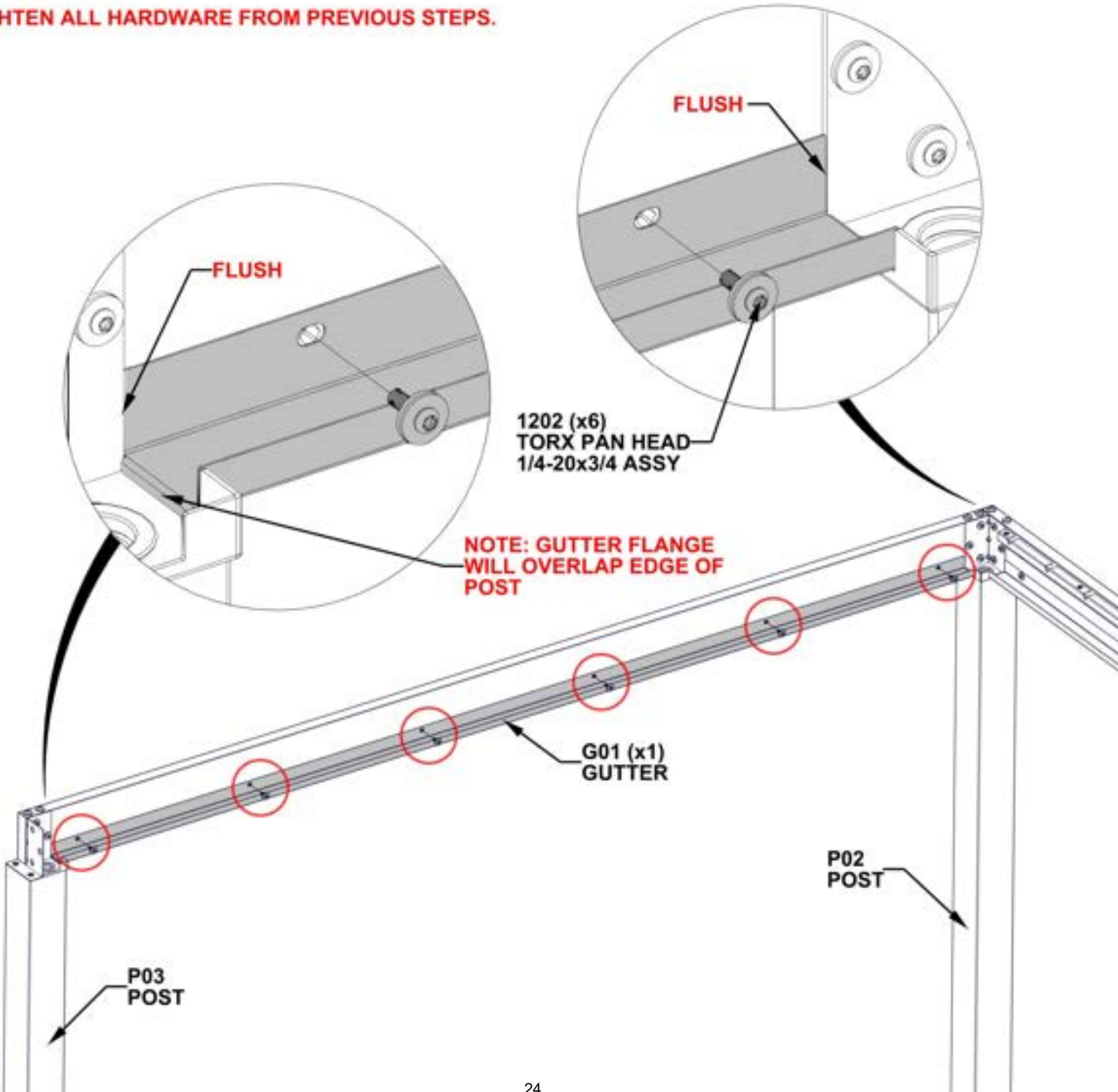


G01 GUTTER - A4M01993  
(x1) 1 9/16"x1 15/16"x108 7/8" (40x50x2765)

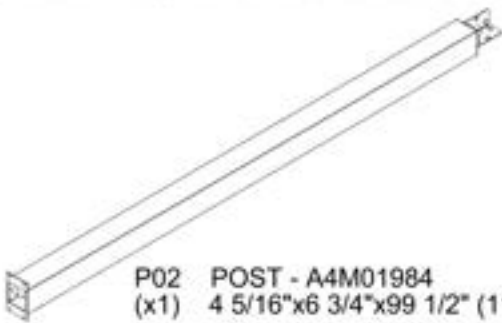
| QTY | PartNo  | Description                   |
|-----|---------|-------------------------------|
| 6   | H101202 | TORX PAN HEAD 1/4-20x3/4 ASSY |

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 - FRAME ASSEMBLY



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

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



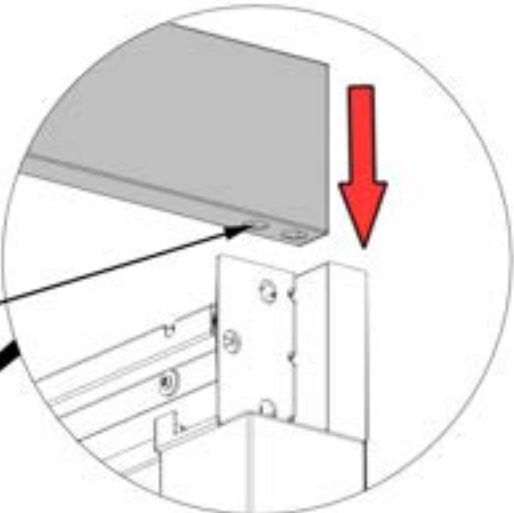
B01 BEAM - A4M01986  
(x1) 1 7/16"x5 1/4"x114 1/2" (36x134x2910)

WITH AT LEAST TWO EXTRA PEOPLE, ATTACH B01 BEAM TO P02 AND P01 POST.

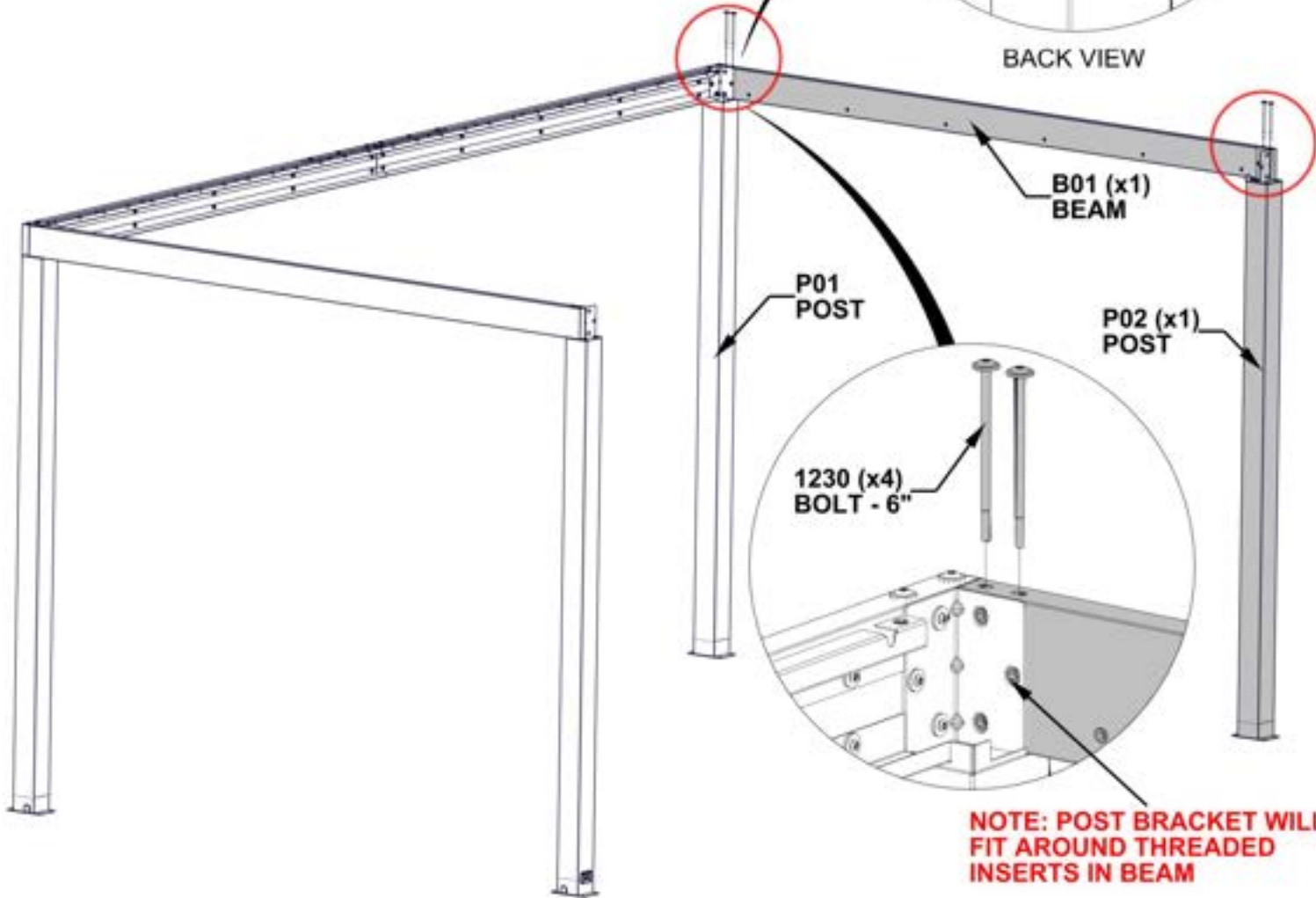
ALIGN SLOTS IN BEAM WITH THREADED INSERTS ON TOP PLATE. FLUSH ALL SIDES OF BEAM AND POST.

DO NOT TIGHTEN HARDWARE AT THIS STEP.

NOTE: LARGE SLOTS INDICATE BOTTOM SURFACE OF BEAM. SLOTS WILL FIT AROUND THREADED INSERTS IN POST PLATE.



BACK VIEW



P01 POST

B01 (x1) BEAM

P02 (x1) POST

1230 (x4) BOLT - 6"

NOTE: POST BRACKET WILL FIT AROUND THREADED INSERTS IN BEAM

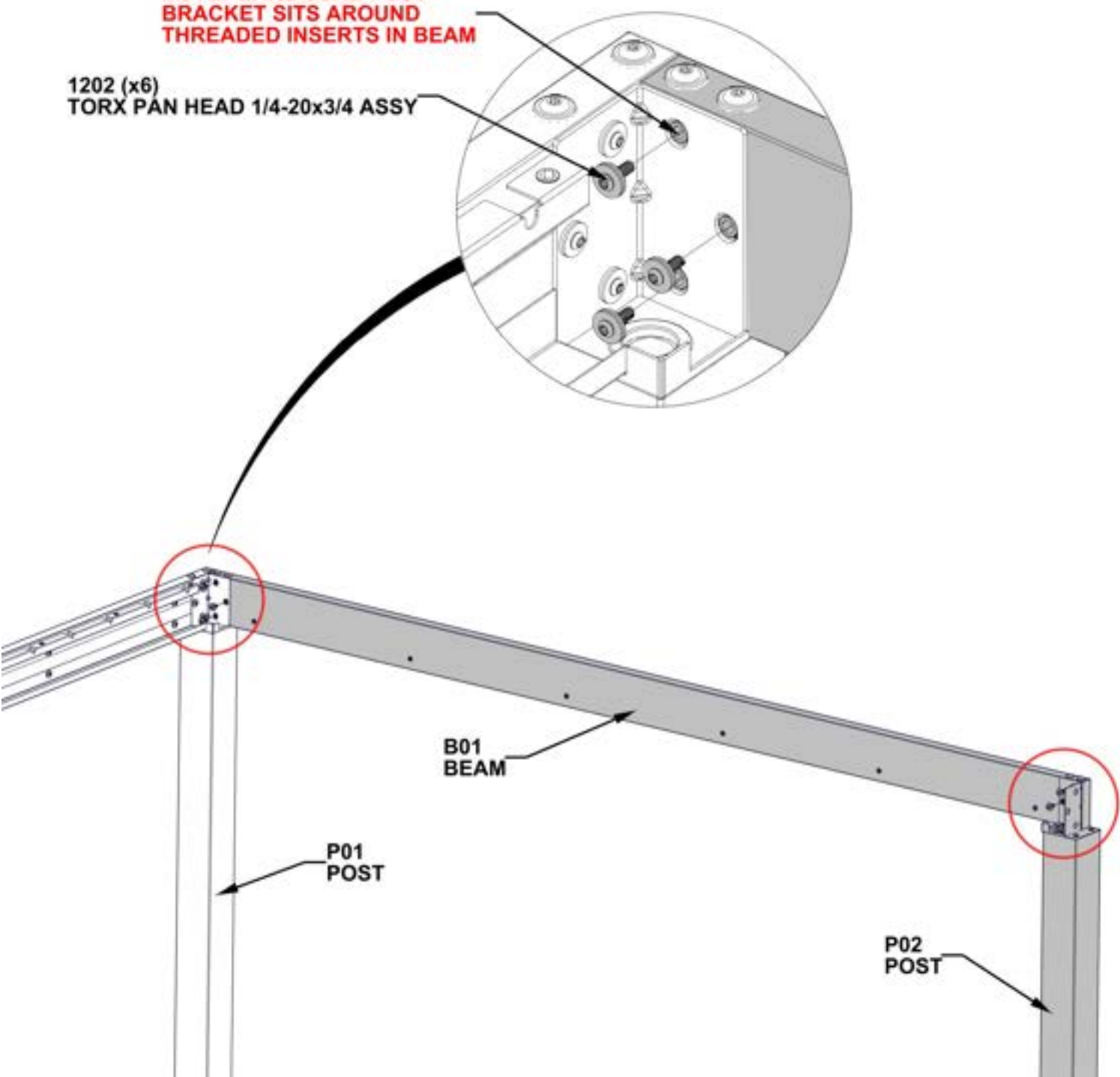
# STEP 10B - FRAME ASSEMBLY

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

DO NOT TIGHTEN HARDWARE AT THIS STEP

NOTE: MAKE SURE POST  
BRACKET SITS AROUND  
THREADED INSERTS IN BEAM

1202 (x6)  
TORX PAN HEAD 1/4-20x3/4 ASSY



# STEP 11 - GUTTER ATTACHMENT

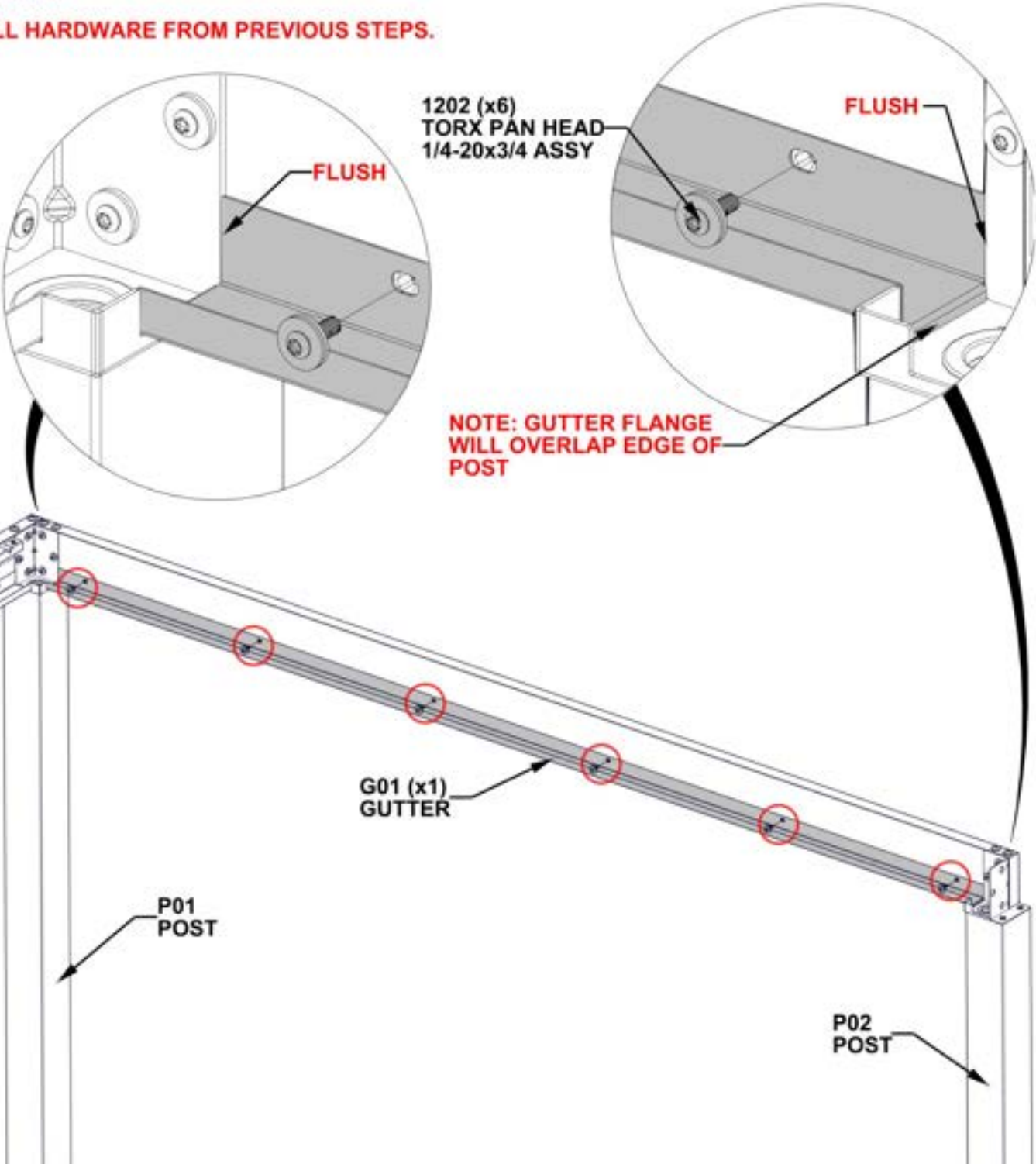


G01 GUTTER - A4M01993  
(x1) 1 9/16"x1 15/16"x108 7/8" (40x50x2765)

| 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 12 - BEAM ASSEMBLY

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

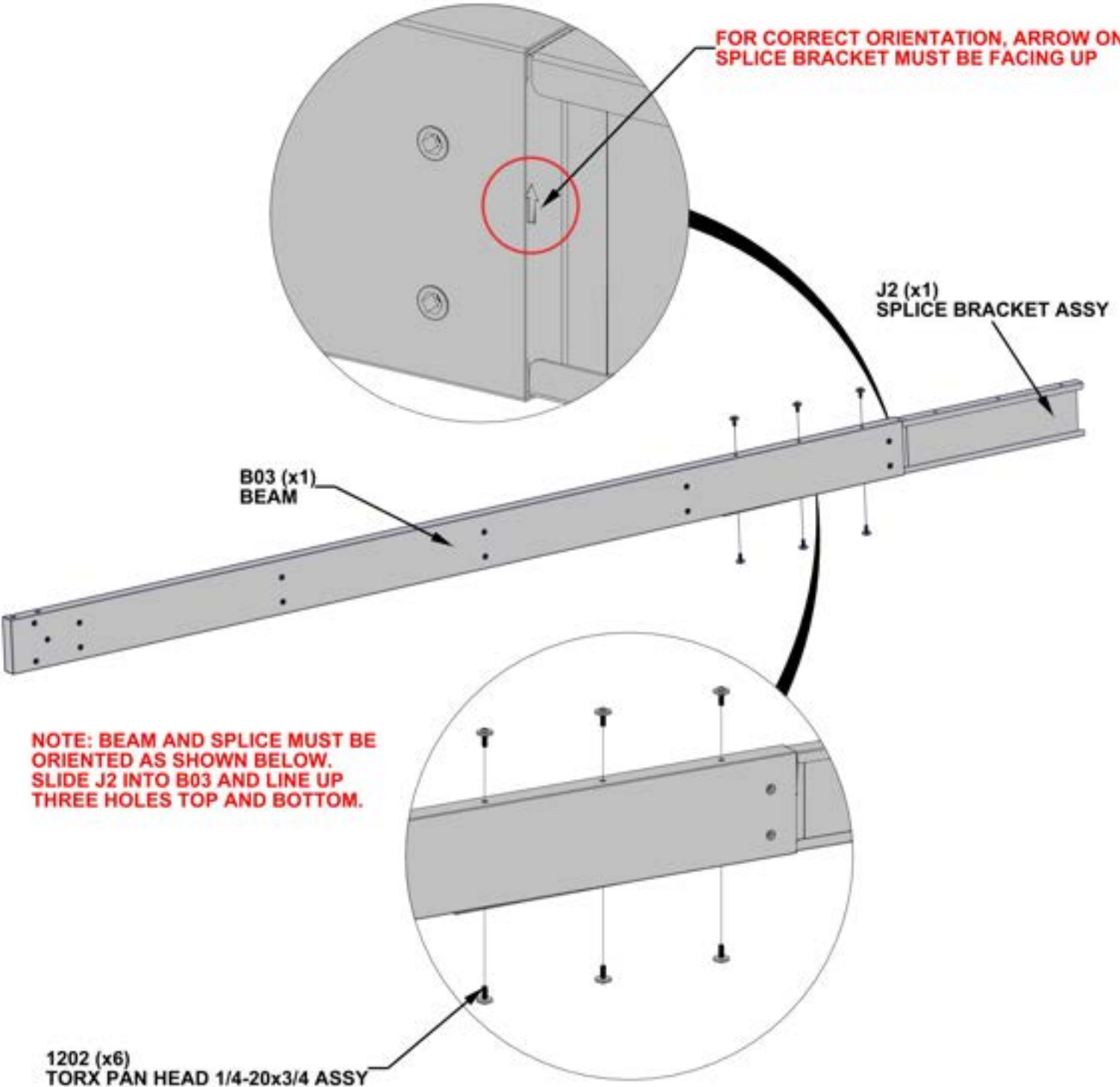


B03 BEAM - A4M02575  
(x1) 1 7/16"x5 1/4"x97 3/16" (36x134x2468)



J2 SPLICE BRACKET ASSY - A4M06579  
(x1) 39 1/2"x5 1/8"x1 1/4" (32.00x131x1003)

DO NOT TIGHTEN HARDWARE AT THIS STEP



# STEP 13 - BEAM ASSEMBLY

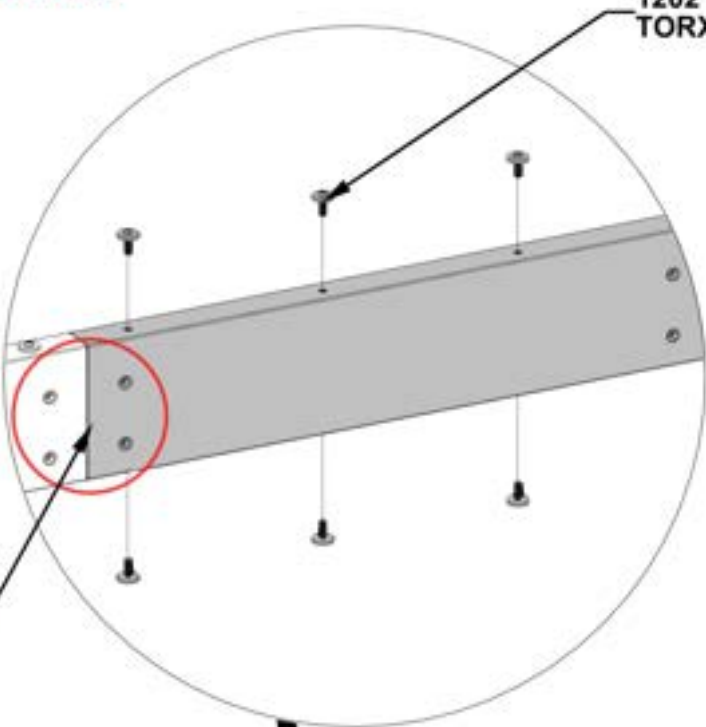
| QTY | PartNo  | Description                   |
|-----|---------|-------------------------------|
| 6   | H101202 | TORX PAN HEAD 1/4-20x3/4 ASSY |



B04 BEAM - A4M02576  
(x1) 1 7/16"x5 1/4"x97 3/16" (36x134x2468)

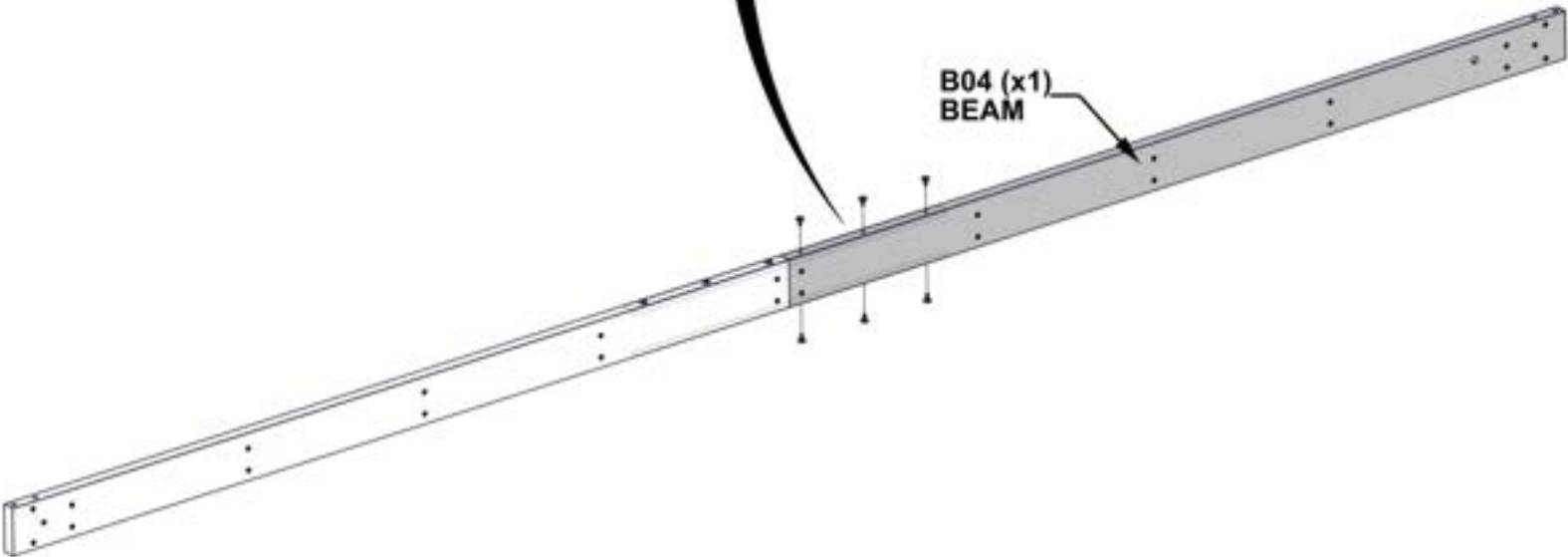
SLIDE B04 INTO SPLICE BRACKET.  
GENTLY TAP ENDS OF ASSEMBLY WITH  
RUBBER Mallet UNTIL GAP CLOSES,  
THEN TIGHTEN ALL BOLTS ON BEAM.

1202 (x6)  
TORX PAN HEAD 1/4-20x3/4 ASSY



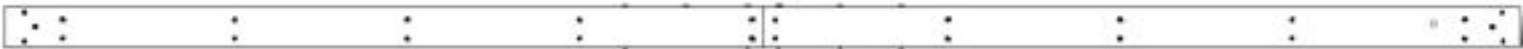
NOTE: ALL THREADED  
INSERTS WILL BE ON THE  
SAME SIDE OF THE BEAM

B04 (x1)  
BEAM



# STEP 14A - FRAME ASSEMBLY

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



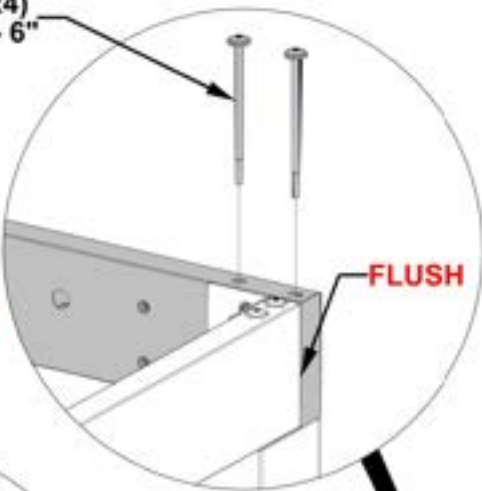
BEAM ASSEMBLY  
STEP 12 -13

WITH AT LEAST TWO EXTRA PEOPLE, ATTACH BEAM ASSEMBLY FROM PREVIOUS STEPS TO P02 AND P03 POST.

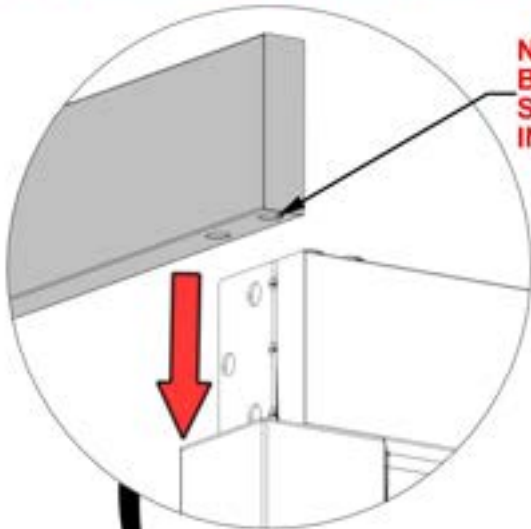
ALIGN SLOTS IN BEAM WITH THREADED INSERTS ON TOP PLATE. FLUSH ALL SIDES OF BEAM AND POST.

DO NOT TIGHTEN HARDWARE AT THIS STEP.

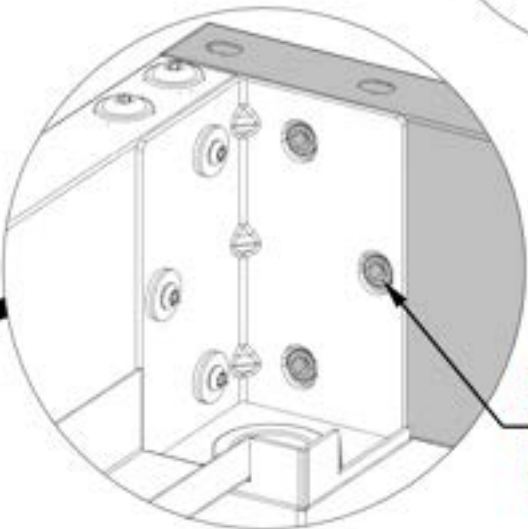
1230 (x4)  
BOLT - 6"



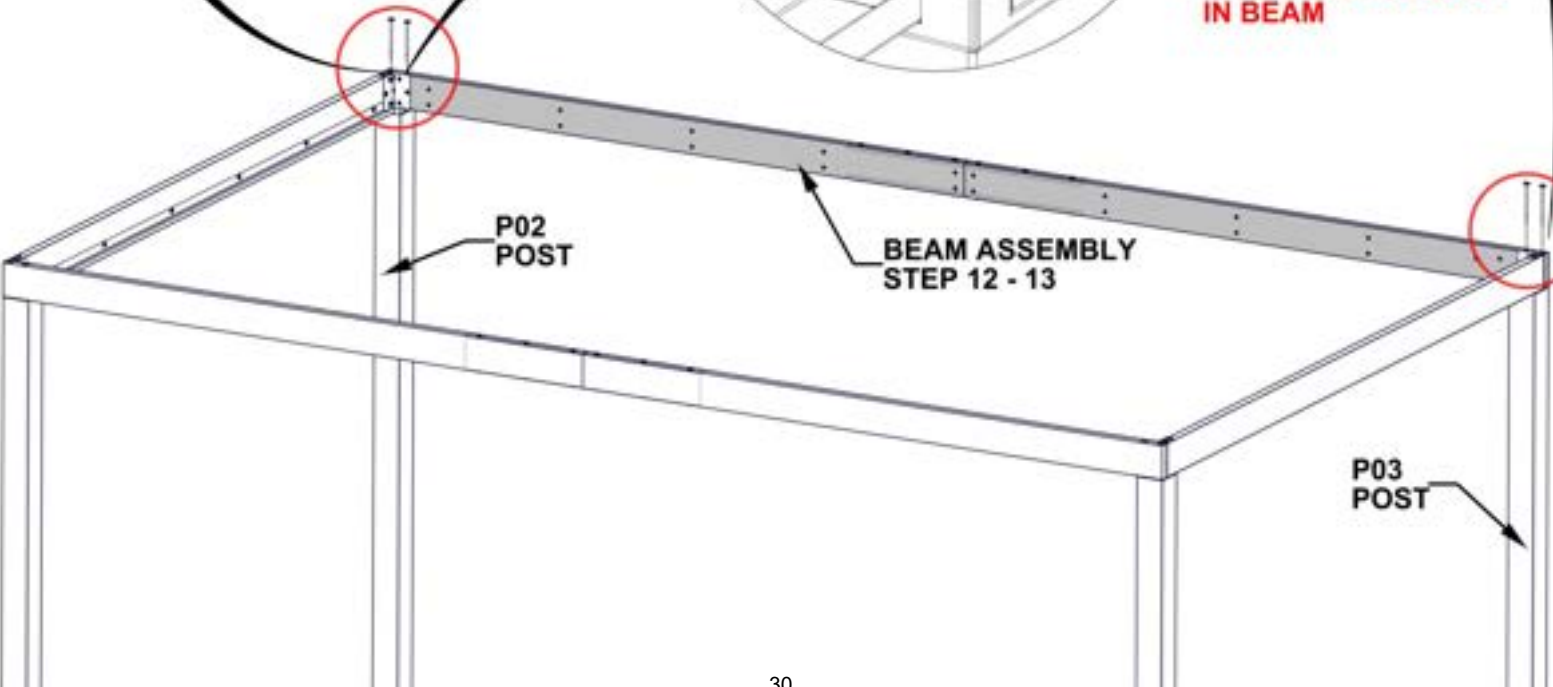
NOTE: LARGE SLOTS INDICATE  
BOTTOM SURFACE OF BEAM.  
SLOTS WILL FIT AROUND THREADED  
INSERTS IN POST PLATE.



BACK VIEW



NOTE: POST BRACKET  
WILL FIT AROUND  
THREADED INSERTS  
IN BEAM



P02  
POST

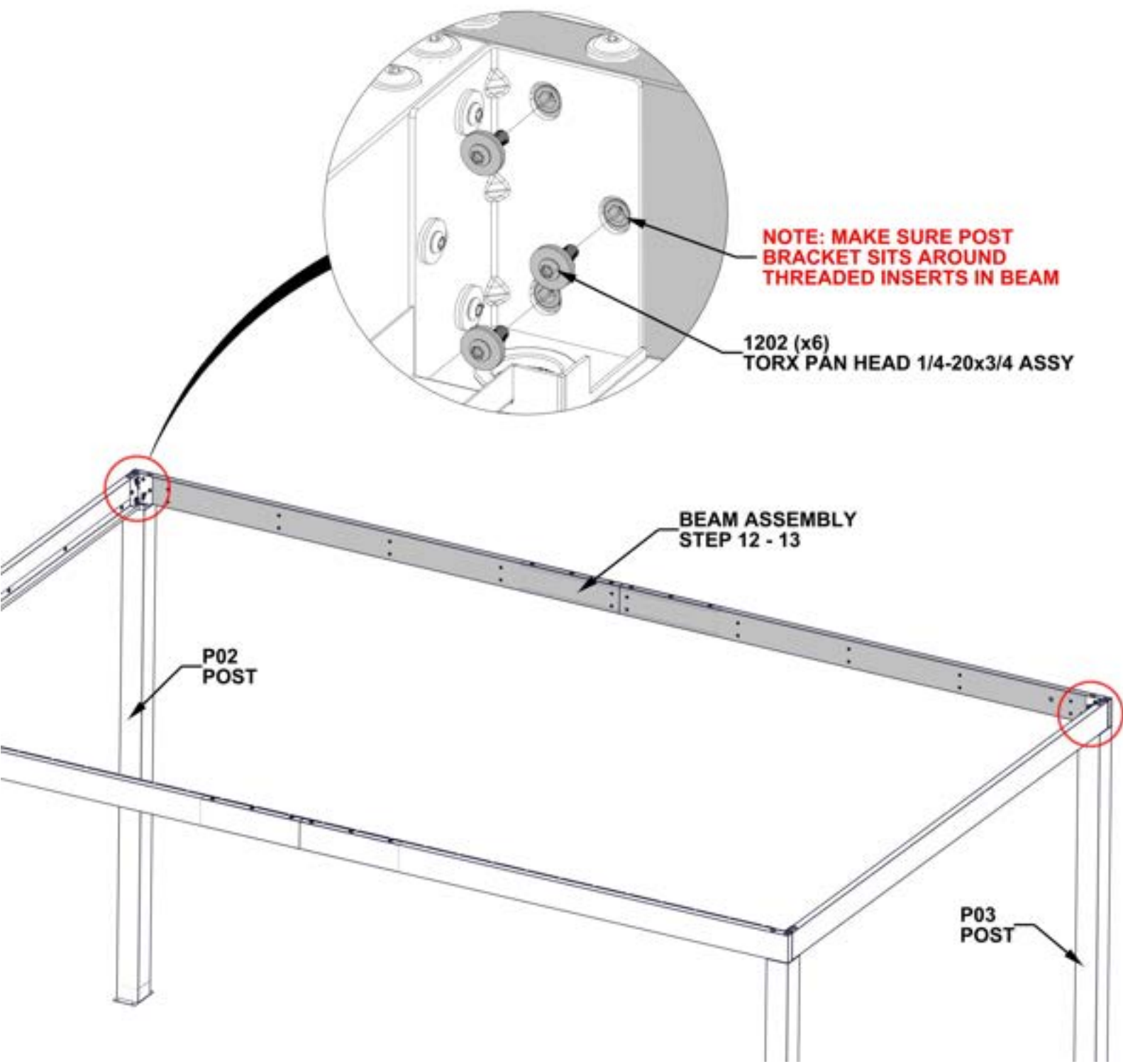
BEAM ASSEMBLY  
STEP 12 - 13

P03  
POST

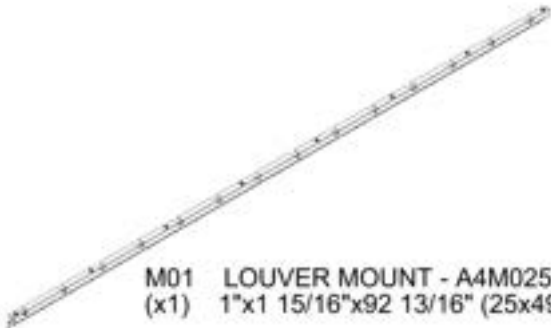
# STEP 14B - FRAME ASSEMBLY

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

TIGHTEN ALL HARDWARE FROM PREVIOUS STEPS



# STEP 15 - LOUVER MOUNT ATTACHMENT



M01 LOUVER MOUNT - A4M02577  
(x1) 1"x1 15/16"x92 13/16" (25x49x2357)

| QTY | PartNo  | Description                   |
|-----|---------|-------------------------------|
| 5   | H101202 | TORX PAN HEAD 1/4-20x3/4 ASSY |

NOTE: FLUSH MOUNT WITH EDGE OF POST BRACKET

NOTE: LOUVER MOUNT WILL FIT AROUND THREADED INSERTS IN BEAM

1202 (x5)  
TORX PAN HEAD 1/4-20x3/4 ASSY

M01 (x1)  
LOUVER MOUNT

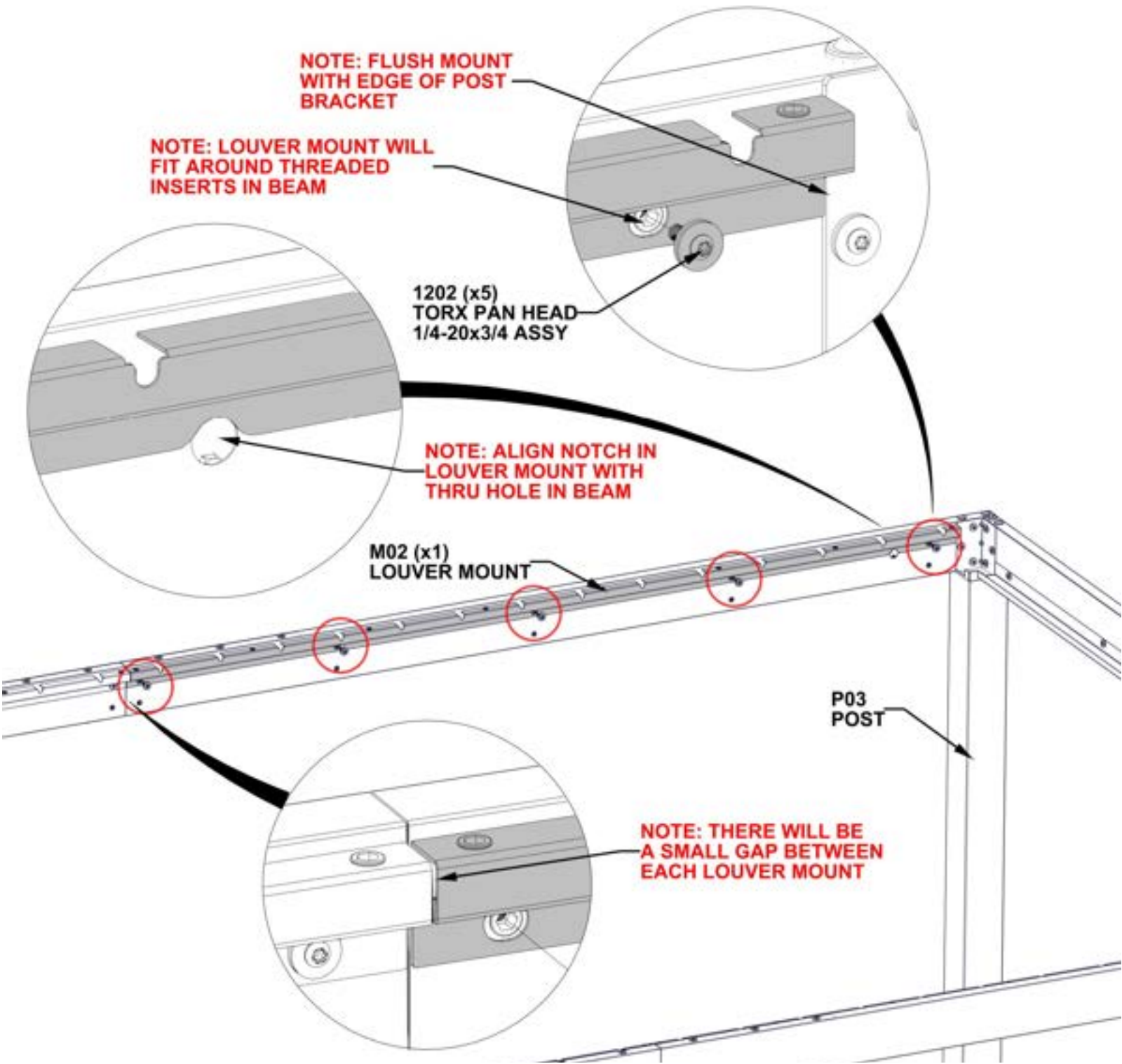
P02  
POST

STEP 16 - LOUVER MOUNT ATTACHMENT



| QTY | PartNo  | Description                   |
|-----|---------|-------------------------------|
| 5   | H101202 | TORX PAN HEAD 1/4-20x3/4 ASSY |

M02 LOUVER MOUNT - A4M02578  
(x1) 1"x1 15/16"x92 13/16" (25x49x2357)



## STEP 17A - GUTTER ASSEMBLY



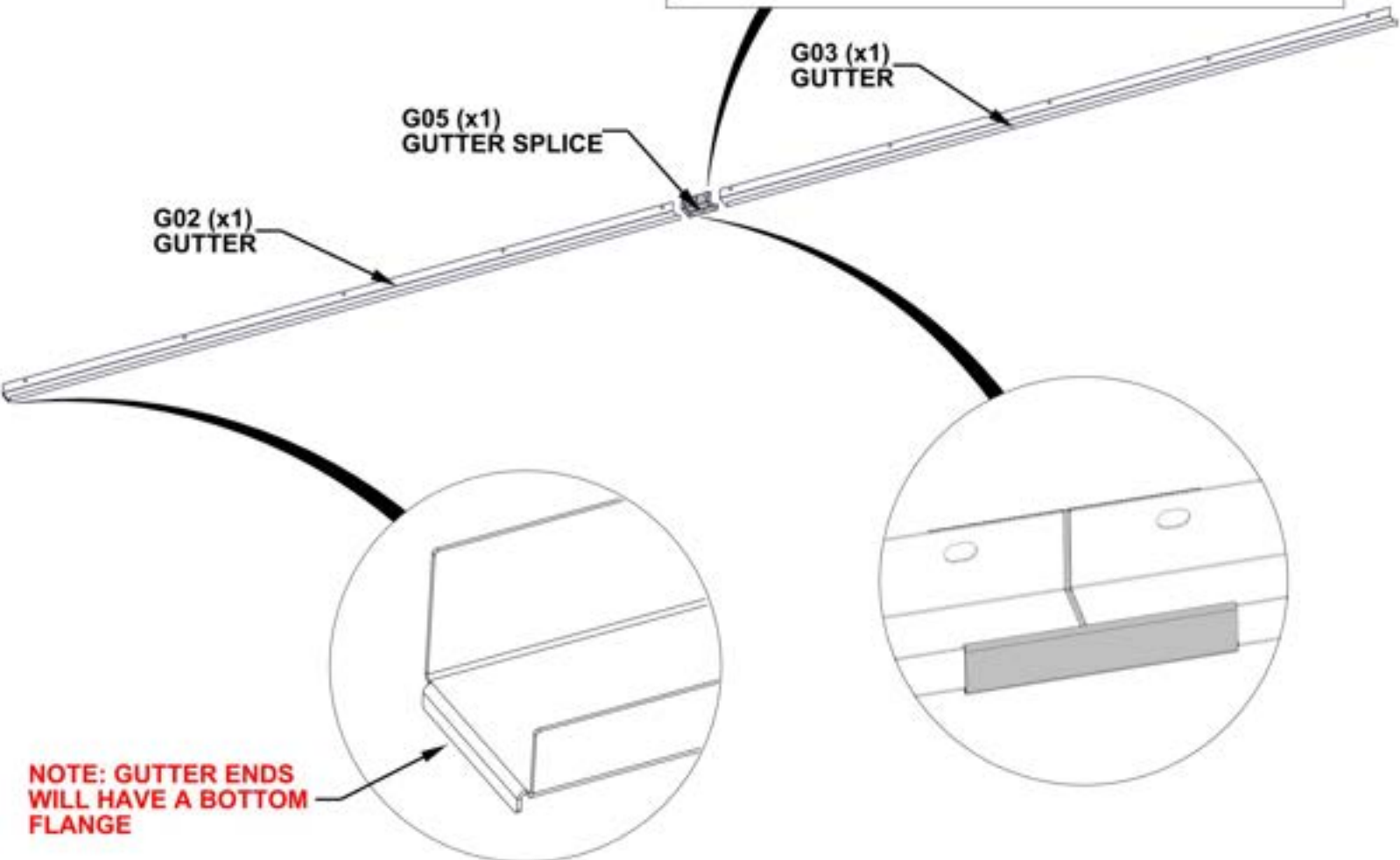
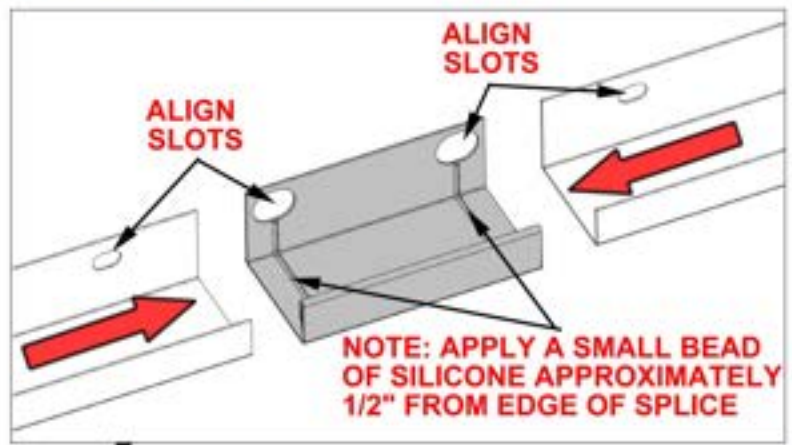
G02 GUTTER - A4M02570 (x1) 1 9/16"x1 15/16"x92 7/8" (40x50x2359) G03 GUTTER - A4M02571 (x1) 1 9/16"x1 15/16"x92 7/8" (40x50x2359) G05 GUTTER SPLICE - A4M02004 (x1) 1 7/16"x2 1/16"x3 15/16" (36x52.5x100)

**MEASURE APPROXIMATELY 1/2" [12.7mm] FROM EACH END OF GUTTER SPLICE AND APPLY A FINE BEAD OF SILICONE.**

**SLIDE BOTH G02 AND G03 GUTTERS INTO SPLICE UNTIL ENDS ARE ALMOST TOUCHING. WIPE EXCESS SILICONE USING A RAG OR PAPER TOWEL.**

**TIP: GLOVES ARE RECOMMENDED WHEN APPLYING SILICONE**

**MAKE SURE SURFACE OF GUTTER SPLICE IS CLEAN, DRY, AND FREE OF ANY DIRT/DEBRIS**



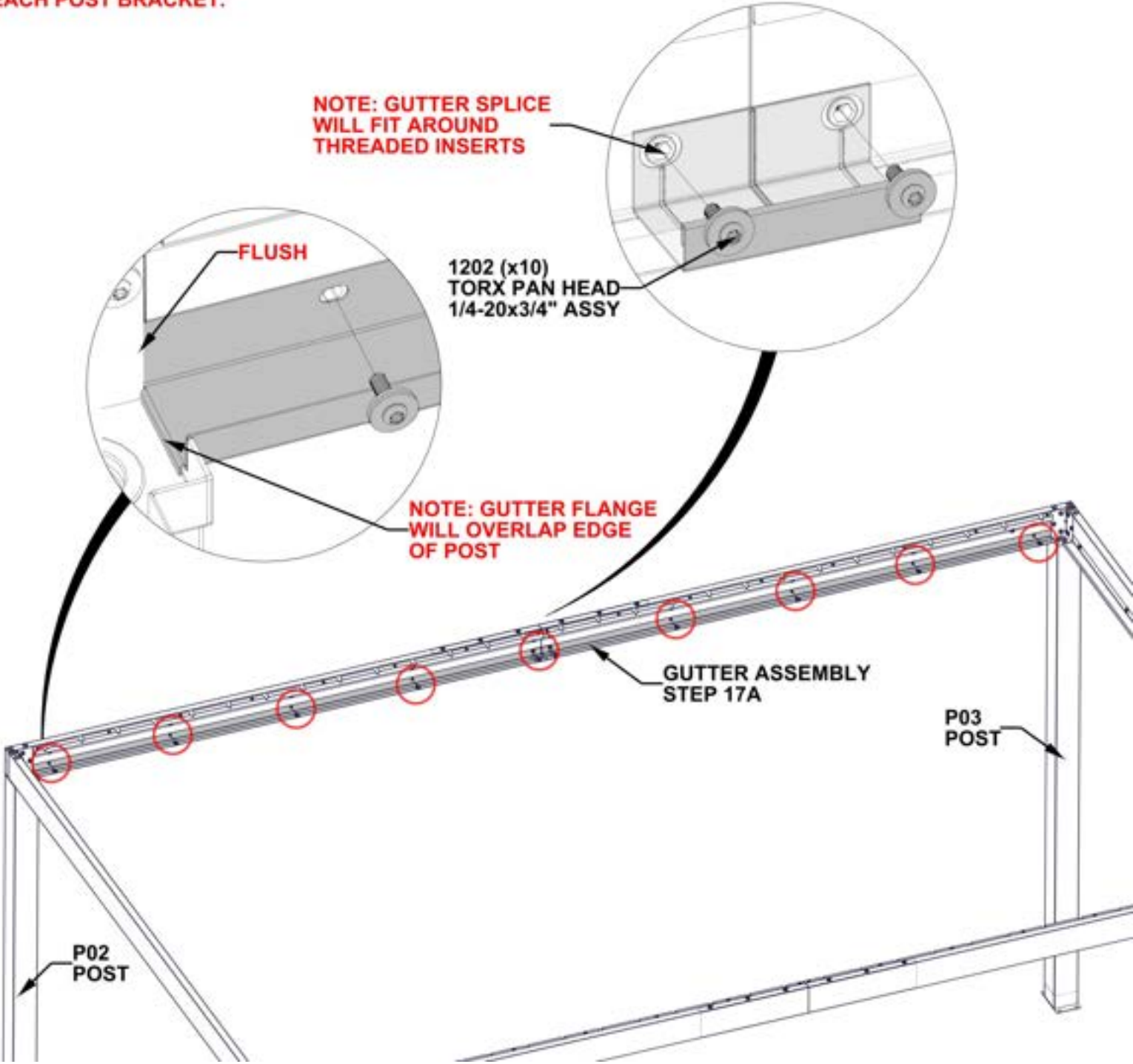
# STEP 17B - GUTTER ATTACHMENT

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



WITH AT LEAST TWO PEOPLE, ATTACH GUTTER ASSEMBLY FROM PREVIOUS STEP TO BEAM.

MAKE SURE ENDS OF GUTTER SIT ON TOP SURFACE OF EACH POST BRACKET.



## STEP 17C - SEALANT



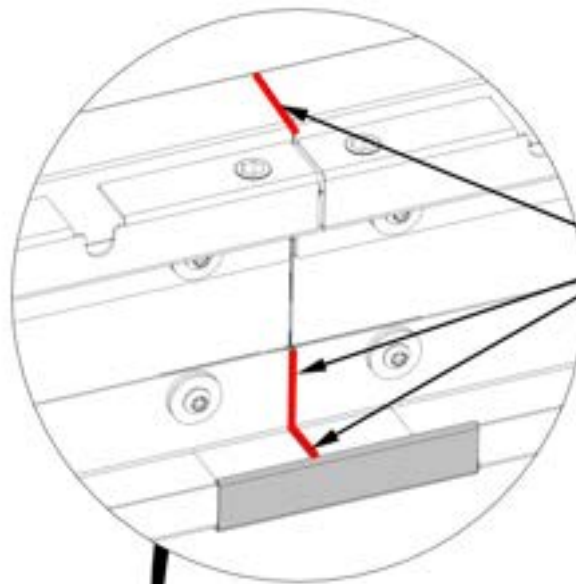
A6P00796 SILICONE  
(x1)

**APPLY A FINE BEAD OF SILICONE ON TOP EDGE OF BEAM AND ALONG THE INSIDE SURFACE OF GUTTER WHERE TWO GUTTER PIECES MEET.**

**SMOOTH SILICONE ALONG SEAM, 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.**



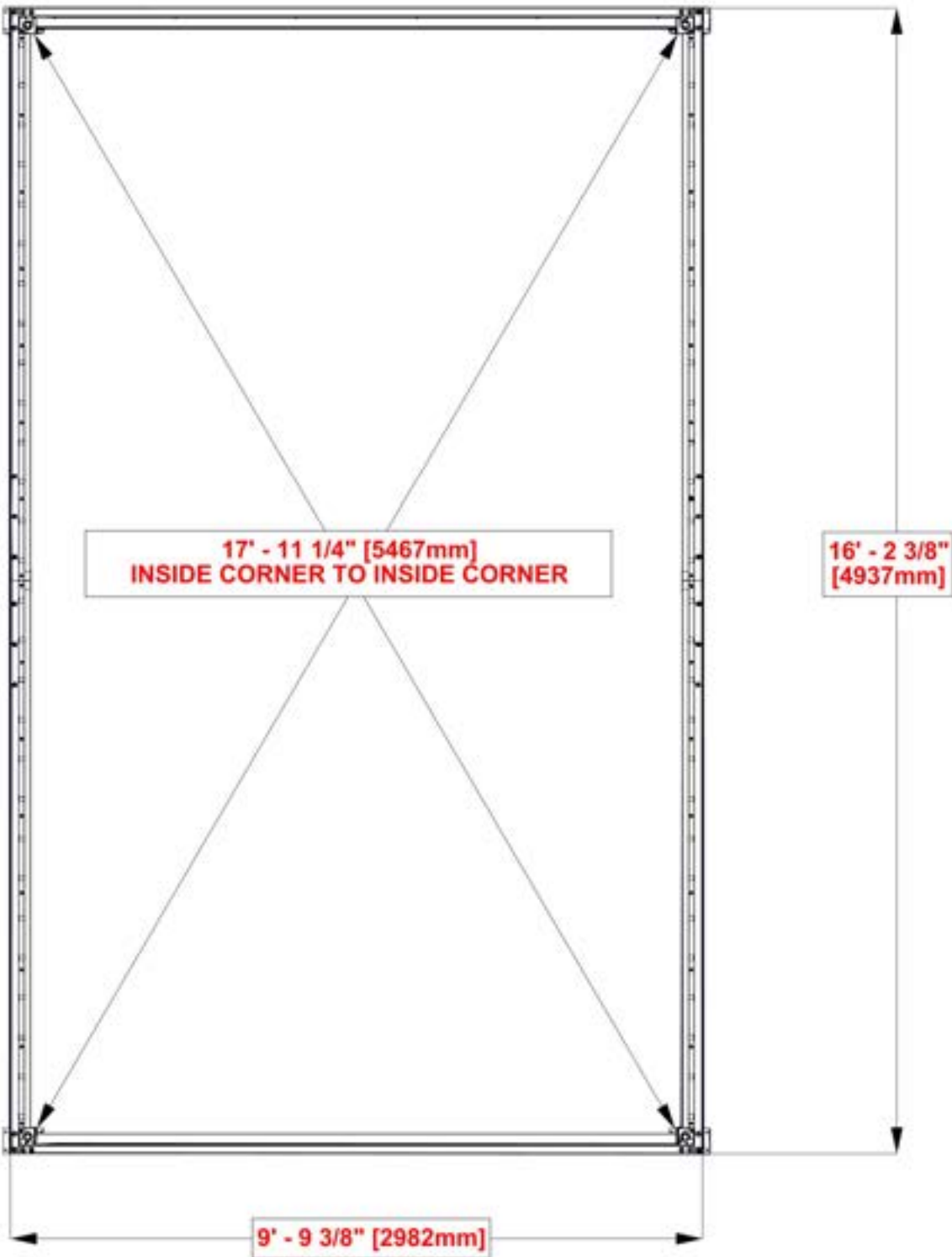
**NOTE: APPLY A FINE BEAD OF SILICONE ALONG TOP SURFACE OF BEAM AND INSIDE SEAM OF GUTTER**



# STEP 18A - SQUARE STRUCTURE

- CRITICAL:**  
1. SQUARE ASSEMBLY BEFORE PROCEEDING TO NEXT STEPS.  
2. ONCE SQUARE, TIGHTEN ALL HARDWARE.

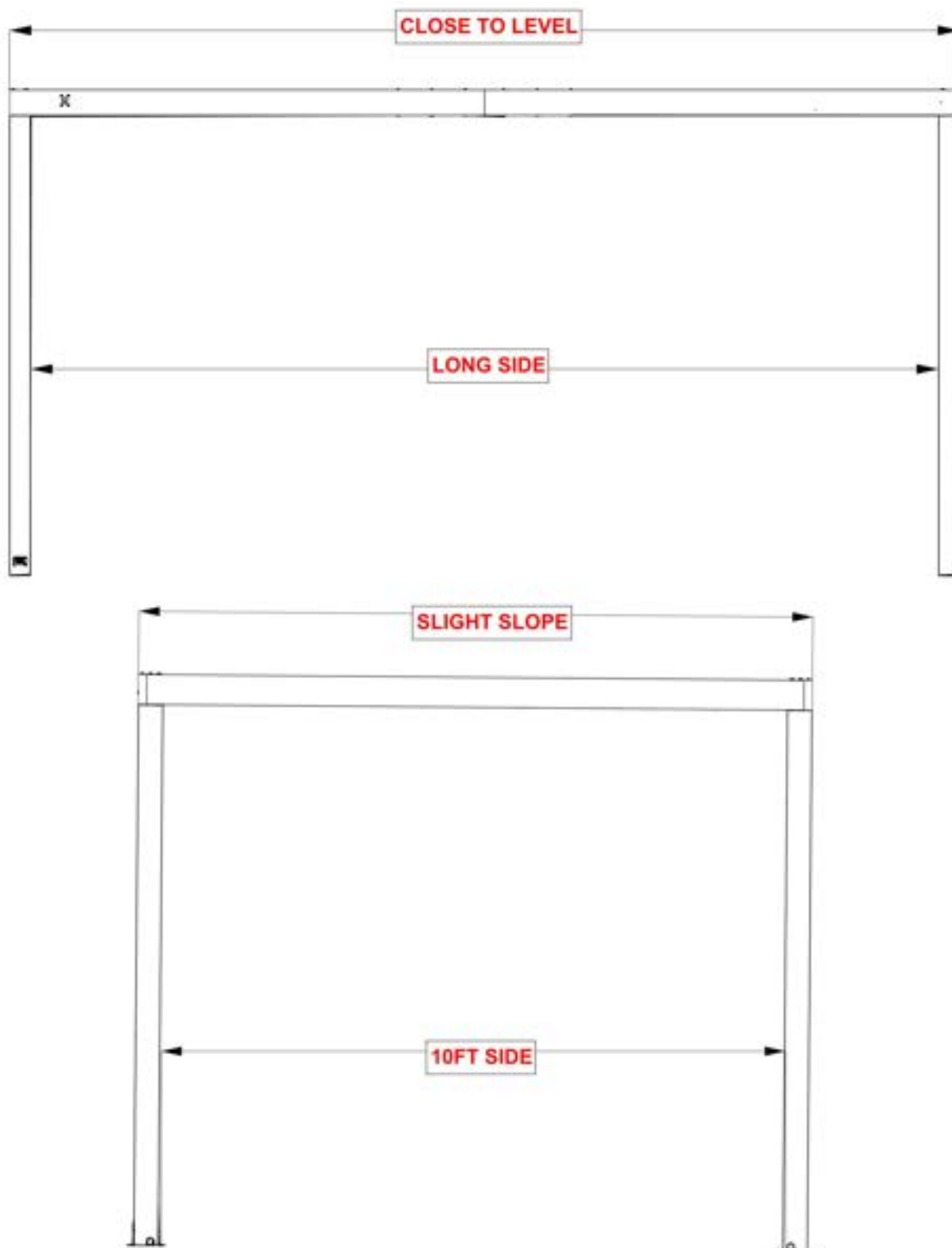
MEASUREMENTS TAKEN FROM OUTSIDE POST TO OUTSIDE POST OF STRUCTURE UNLESS NOTED OTHERWISE



## STEP 18B - POSITIONING THE STRUCTURE

### CRITICAL:

- FOR YOUR PERGOLA TO DRAIN PROPERLY, THERE MUST BE A SLIGHT SLOPE ON THE 10FT SIDE RUNNING THE LENGTH OF THE LOUVER BLADES.
- IT IS RECOMMENDED THAT THE LONG SIDES ARE LEVEL OR CLOSE TO LEVEL.
- PLACE A LEVEL ON THE LONGER BEAMS TO CONFIRM THE LONG SIDES ARE CLOSE TO LEVEL.
- PLACE A LEVEL ON THE SHORT BEAMS (10FT) SIDE TO CONFIRM YOU HAVE A SLIGHT SLOPE IN ONE DIRECTION.



PLEASE CONTACT BACKYARD DISCOVERY CUSTOMER SERVICE  
IF HELP IS NEEDED POSITIONING YOUR STRUCTURE

## STEP 19 - GUTTER SEALANT



A6P00796 SILICONE  
(x1)

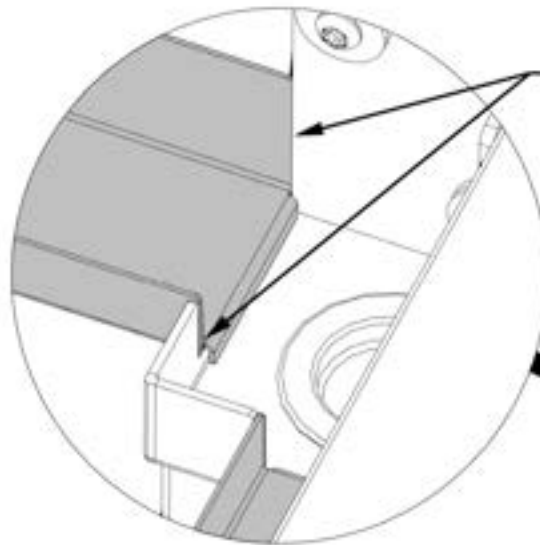
**APPLY A FINE BEAD OF SILICONE ALONG INSIDE SURFACE OF GUTTER WHERE GUTTER PIECES MEET POST.**

**TIP: GLOVES ARE RECOMMENDED WHEN APPLYING SILICONE.**

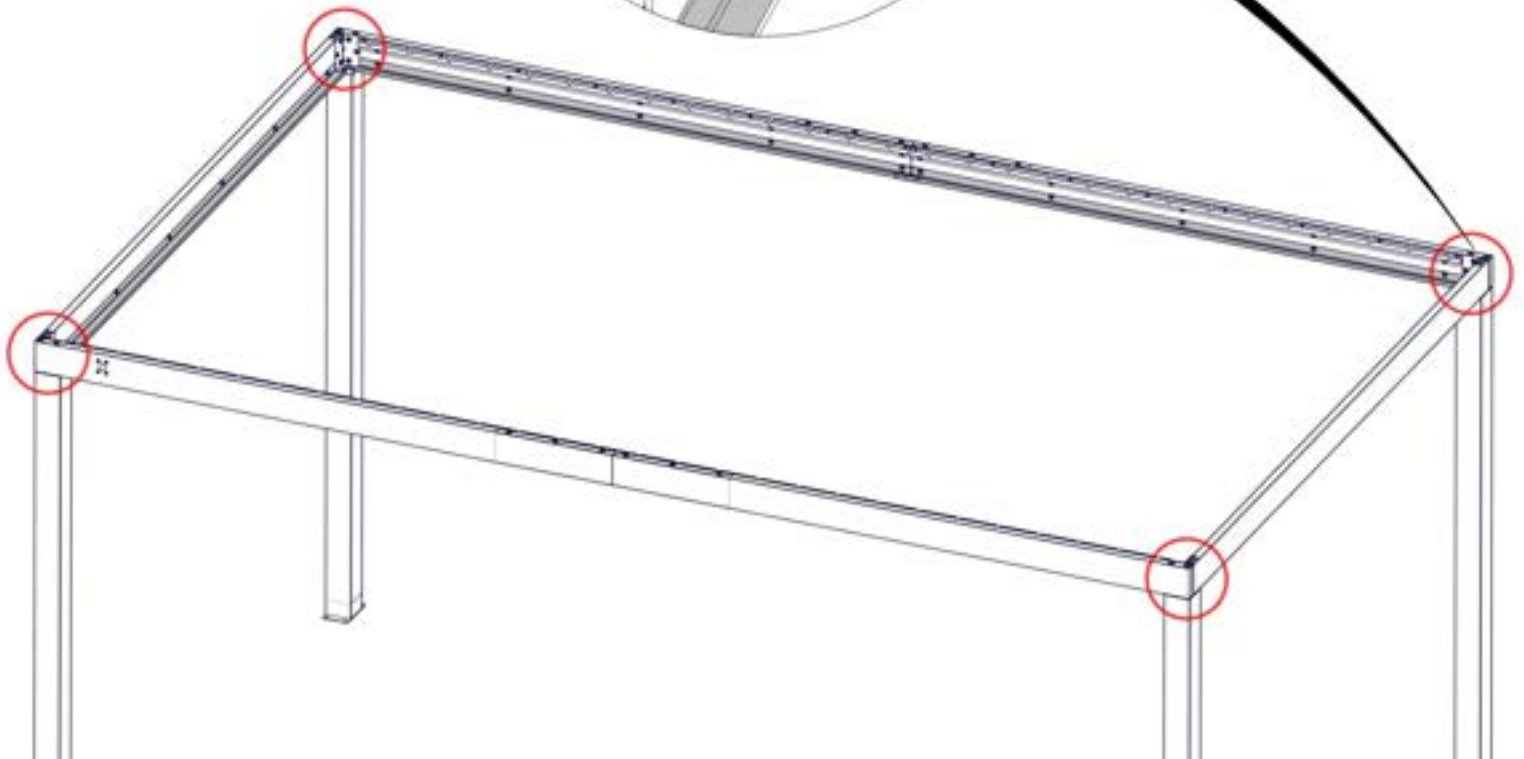
**SMOOTH SILICONE, WIPING EXCESS USING A RAG OR PAPER TOWEL.**

**MAKE SURE SURFACE OF GUTTER IS CLEAN, DRY, AND FREE OF ANY DIRT/DEBRIS.**

**REPEAT THIS STEP FOR ALL GUTTER ATTACHMENT POINTS AT EACH POST.**

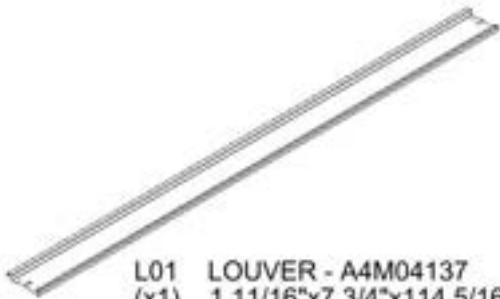


**NOTE: APPLY A FINE BEAD OF SILICONE TO PREVENT WATER FROM LEAKING**



# STEP 20 - DRIVE LOUVER ASSEMBLY

| QTY | PartNo  | Description         |
|-----|---------|---------------------|
| 4   | H100408 | SCREW PWH 8x1/2 BLK |



L01 LOUVER - A4M04137  
(x1) 1 11/16"x7 3/4"x114 5/16" (42x196.2x2904)



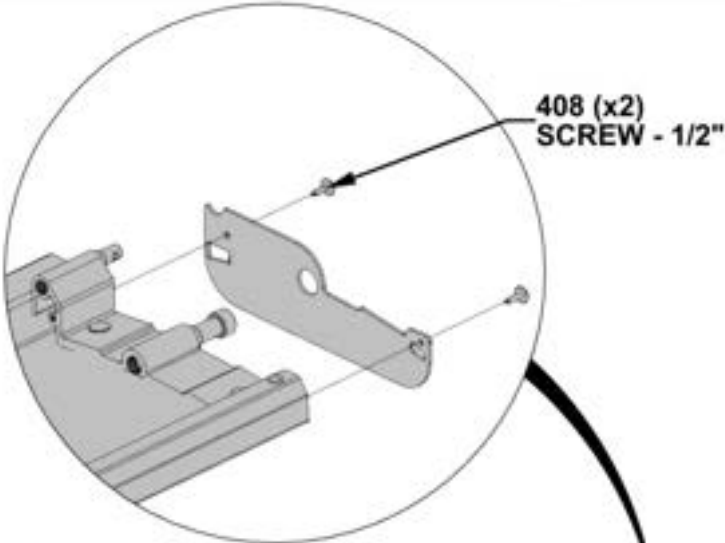
L02 LOUVER DRIVE SIDE PLATE - A4M04139  
(x1) 1/16"x2 3/16"x6 9/16" (2x55x167)



L03 LOUVER SIDE PLATE - A4M04138  
(x1) 1/16"x2 3/16"x6 9/16" (2x55x167)

## DO NOT OVERTIGHTEN SCREWS

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



NOTE: 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

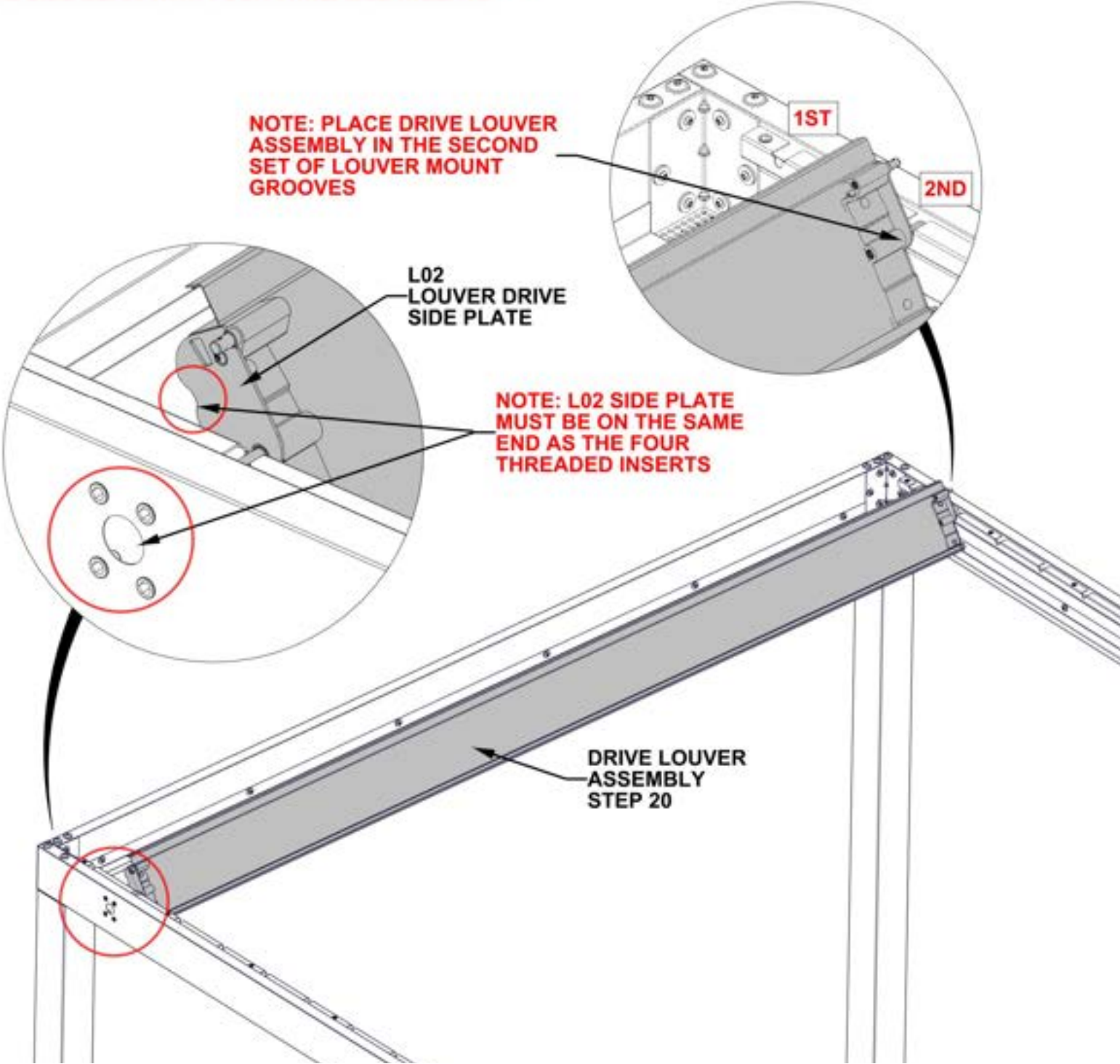
L01 (x1) LOUVER

NOTE: L02 LOUVER DRIVE SIDE PLATE MUST BE INSTALLED ON THIS END OF ONE LOUVER BLADE ASSEMBLY

# STEP 21 - DRIVE LOUVER INSTALLATION

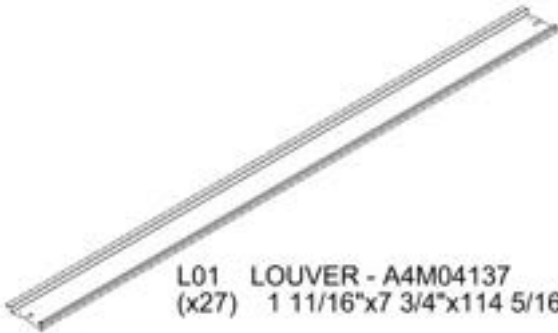


ORIENTATION OF LOUVER WILL BE DETERMINED BY  
THE SIDE BEAM WITH FOUR THREADED INSERTS



# STEP 22 - LOUVER ASSEMBLY

| QTY | PartNo  | Description         |
|-----|---------|---------------------|
| 108 | H100408 | SCREW PWH 8x1/2 BLK |



L01 LOUVER - A4M04137  
(x27) 1 11/16"x7 3/4"x114 5/16" (42x196.2x2904)

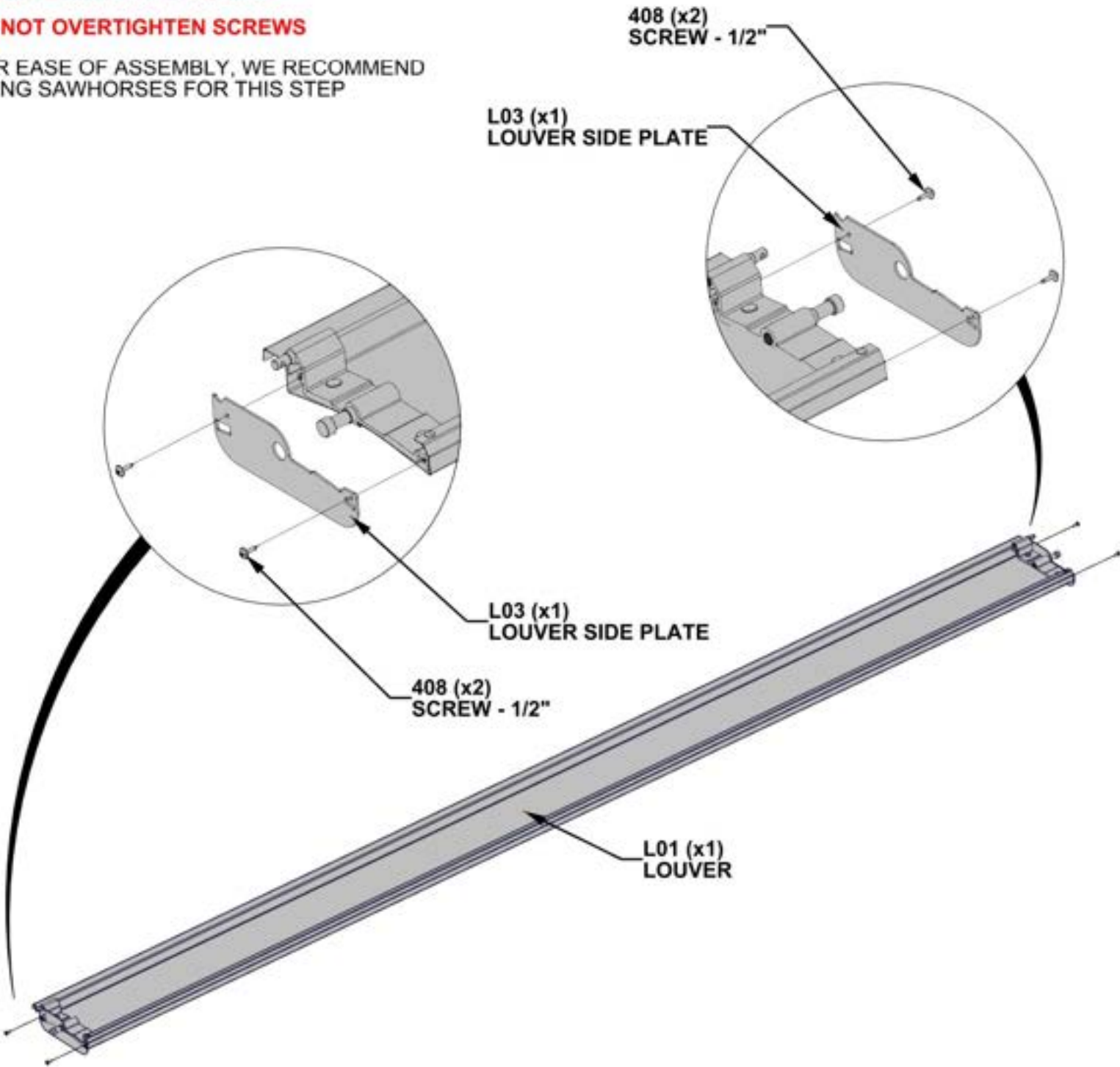


L03 LOUVER SIDE PLATE - A4M04138  
(x54) 1/16"x2 3/16"x6 9/16" (2x55x167)

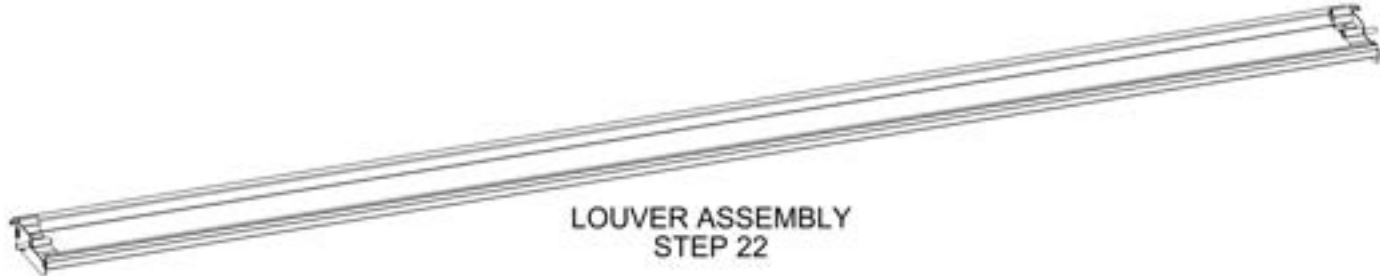
REPEAT THIS STEP 27 TIMES

DO NOT OVERTIGHTEN SCREWS

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



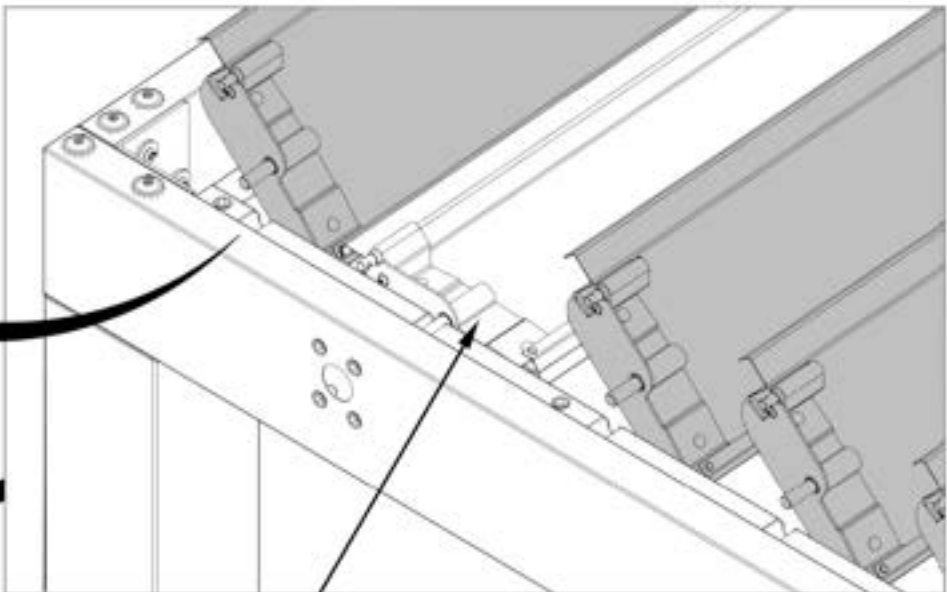
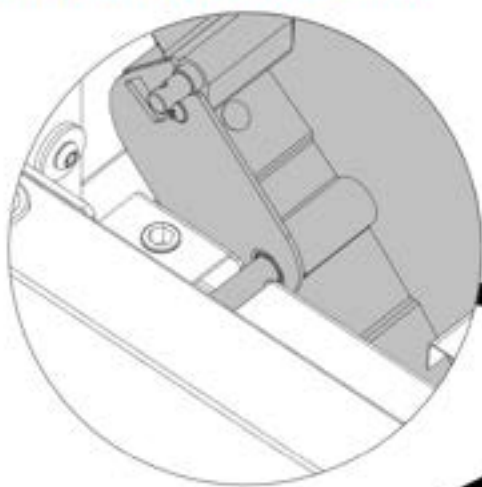
# STEP 23 - LOUVER INSTALLATION



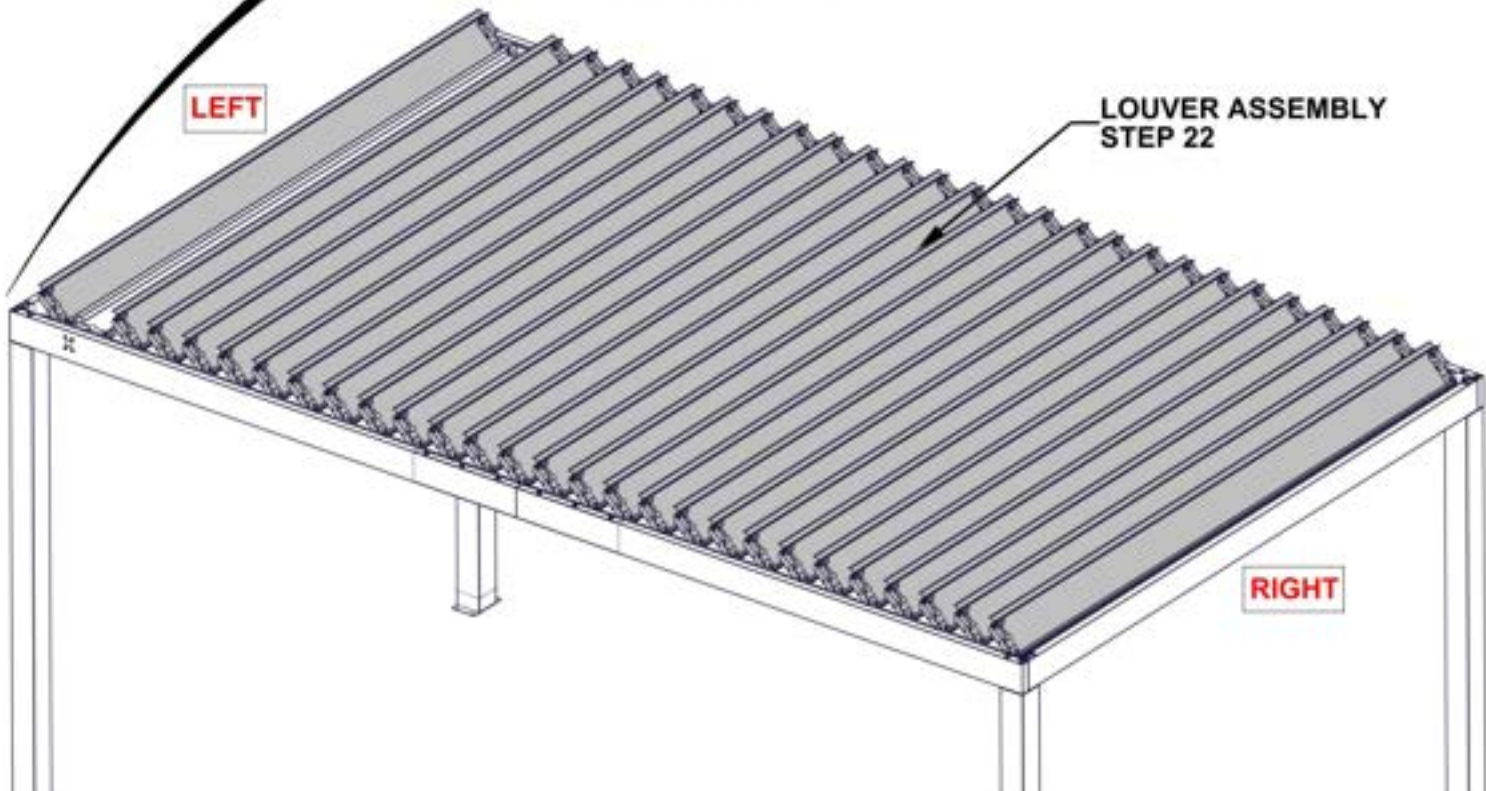
LOUVER ASSEMBLY  
STEP 22

STARTING AT THE LEFT AND WORKING TO THE RIGHT, CAREFULLY SET EACH LOUVER ASSEMBLY ONE AT A TIME INTO LOUVER MOUNTS AT EACH END

NOTE: MAKE SURE ALL LOUVER BLADE ASSEMBLIES ARE ORIENTED IN THE SAME DIRECTION



DRIVE LOUVER  
FROM STEP 21

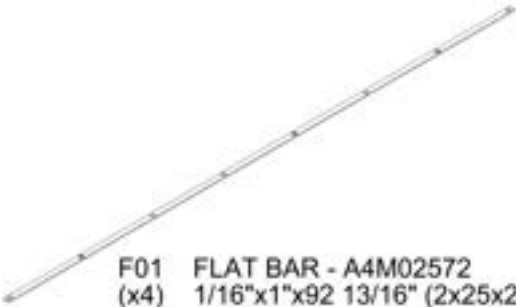


LEFT

LOUVER ASSEMBLY  
STEP 22

RIGHT

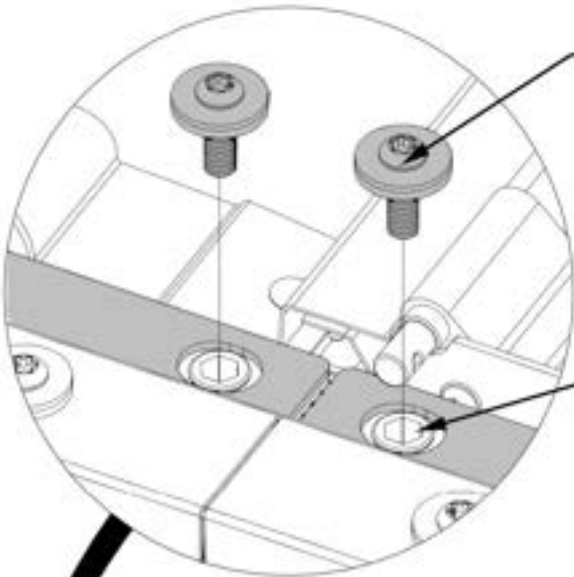
# STEP 24 - LOUVER INSTALLATION



F01 FLAT BAR - A4M02572  
(x4) 1/16"x1"x92 13/16" (2x25x2357)

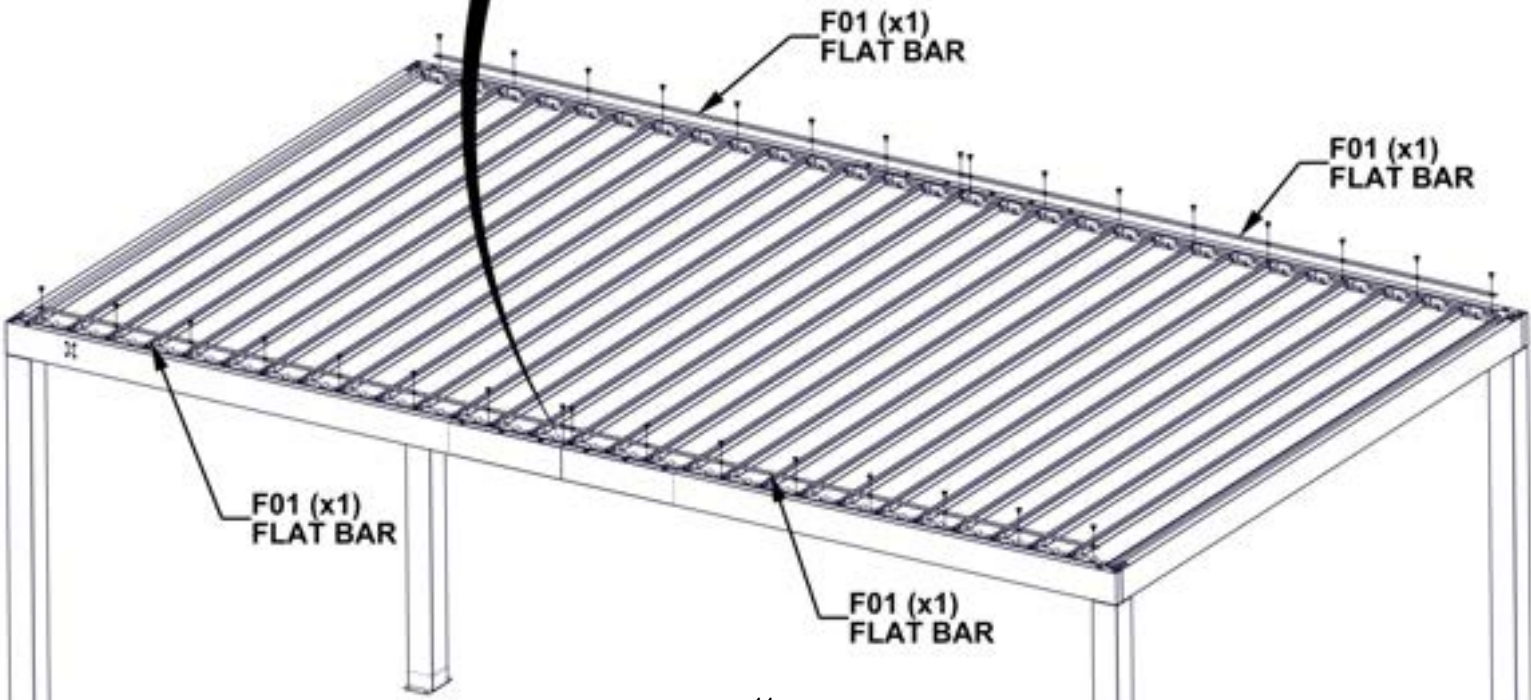
| QTY | PartNo  | Description                   |
|-----|---------|-------------------------------|
| 32  | H101202 | TORX PAN HEAD 1/4-20x3/4 ASSY |

ATTACH FLAT BAR ALONG EACH LOUVER MOUNT.  
FLAT BAR WILL HOLD ALL LOUVER ASSEMBLIES IN PLACE.



1202 (x32)  
TORX PAN HEAD 1/4-20x3/4 ASSY

NOTE: FLAT BAR WILL  
FIT AROUND THREADED  
INSERTS IN LOUVER MOUNTS



F01 (x1)  
FLAT BAR

F01 (x1)  
FLAT BAR

F01 (x1)  
FLAT BAR

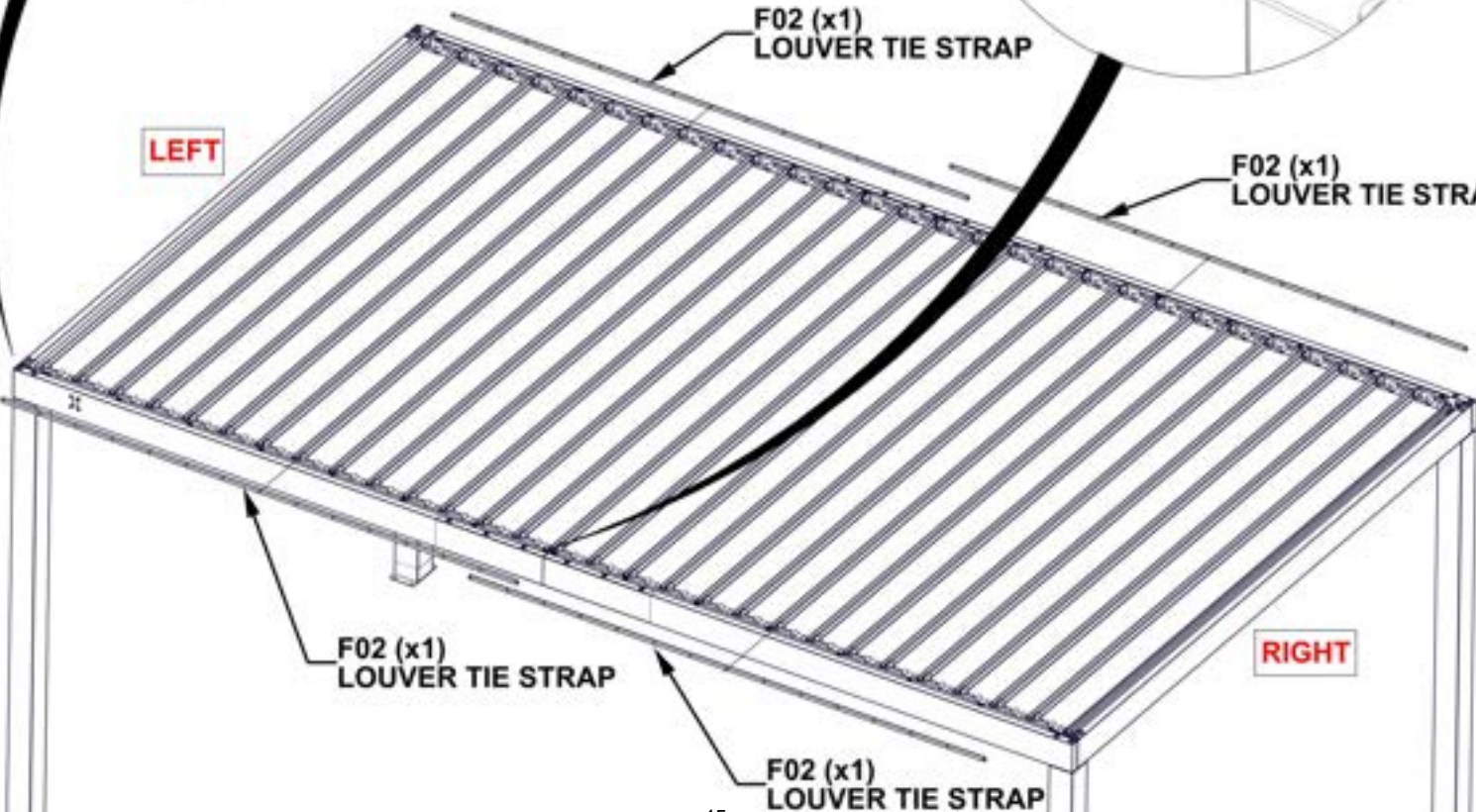
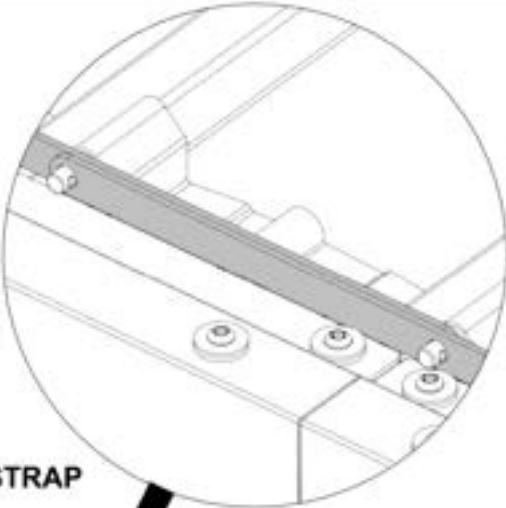
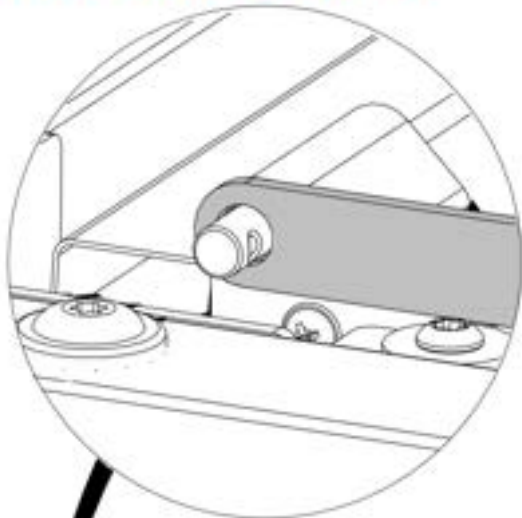
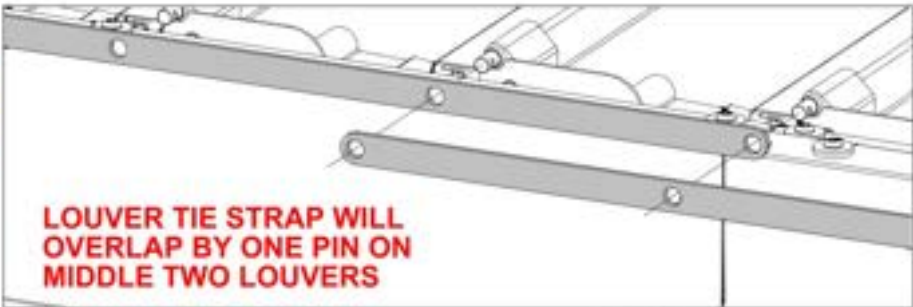
F01 (x1)  
FLAT BAR

# STEP 25A - LOUVER INSTALLATION

F02 LOUVER TIE STRAP - A4M02573  
(x4) 1/8"x13/16"x95" (3x20x2414)

LOUVER TIE STRAPS WILL CONNECT ALL LOUVERS TO ONE ANOTHER

STARTING ON THE LEFT AND WORKING TO THE RIGHT, CONNECT LOUVERS USING TIE STRAPS. OVERLAP TIE STRAPS TO HOLD MIDDLE LOUVERS TOGETHER

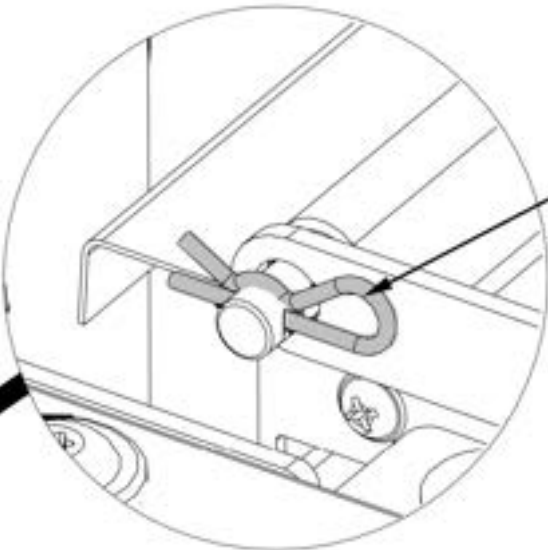


# STEP 25B - LOUVER INSTALLATION

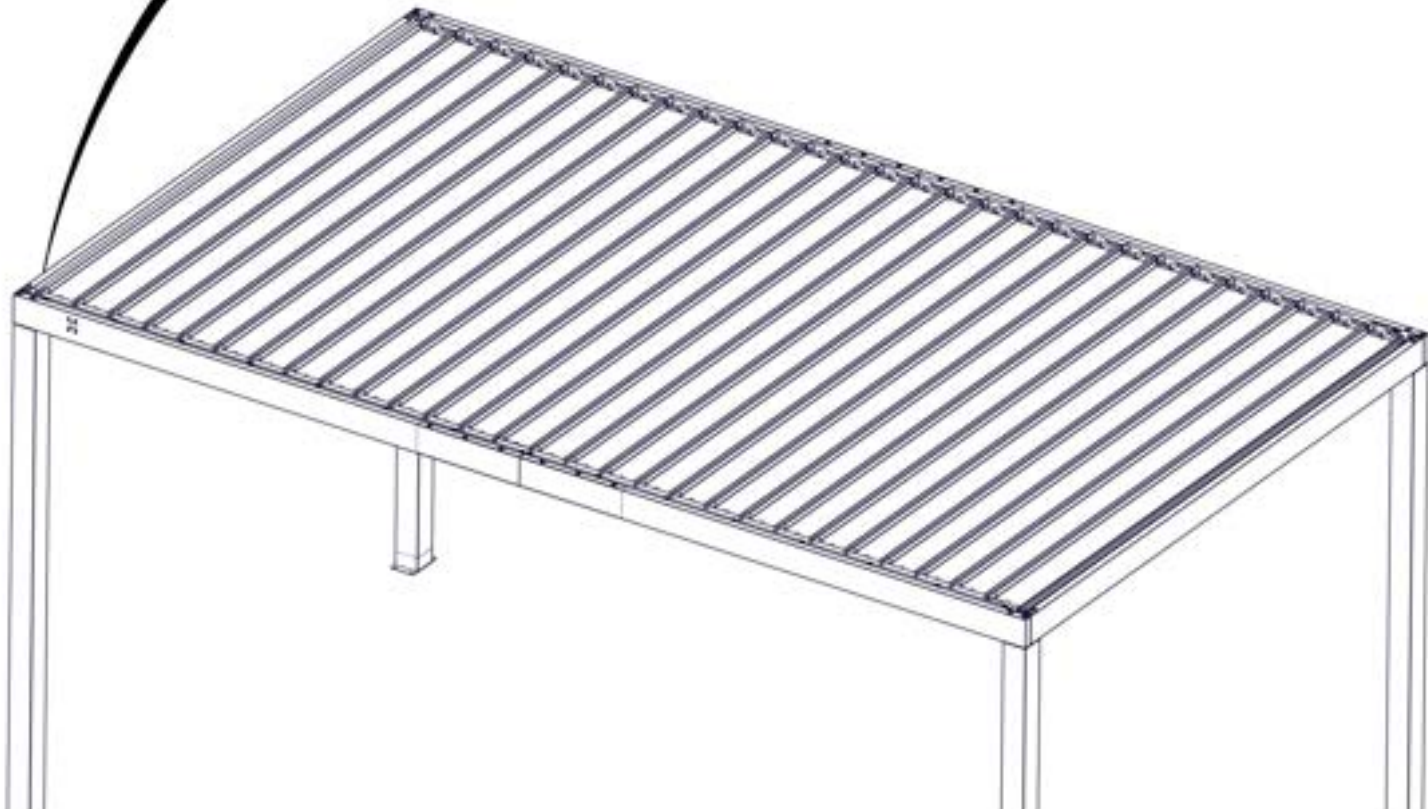


H101161 COTTER PIN  
(x56)

INSTALL COTTER PINS ON EACH LOUVER  
TO HOLD TIE STRAPS IN PLACE



1161 (x56)  
COTTER PIN



# STEP 26 - LOUVER MECHANISM

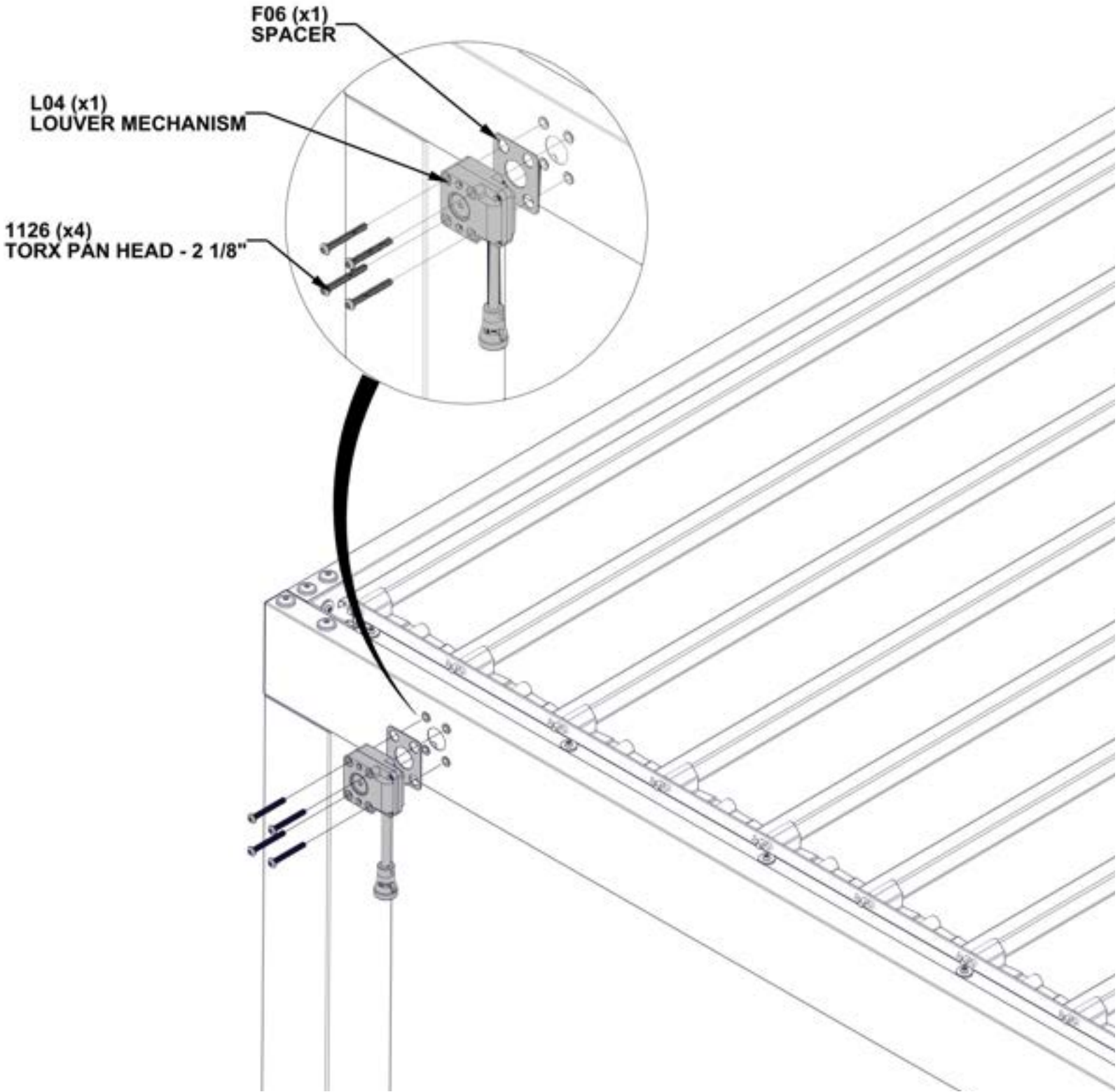
| QTY | PartNo  | Description                 |
|-----|---------|-----------------------------|
| 4   | H101126 | TORX PAN HEAD 1/4-20x2 1/8" |



L04 LOUVER MECHANISM  
(x1) A4M02132

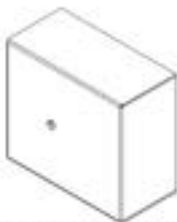


F06 SPACER - A4M02227  
(x1) 1/16"x2 3/16"x2 3/4" (1.5x56x70)



STEP 27 - LOUVER MECHANISM

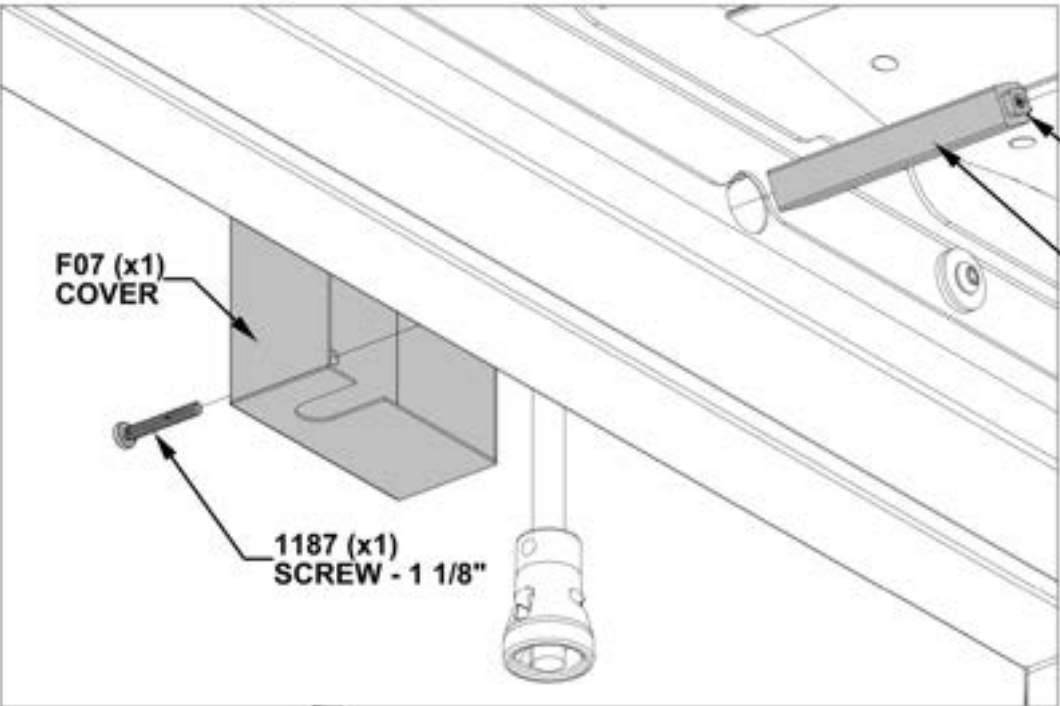
| QTY | PartNo  | Description             |
|-----|---------|-------------------------|
| 1   | H101187 | BOLT PPH 8-32x1 1/8 BLK |



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

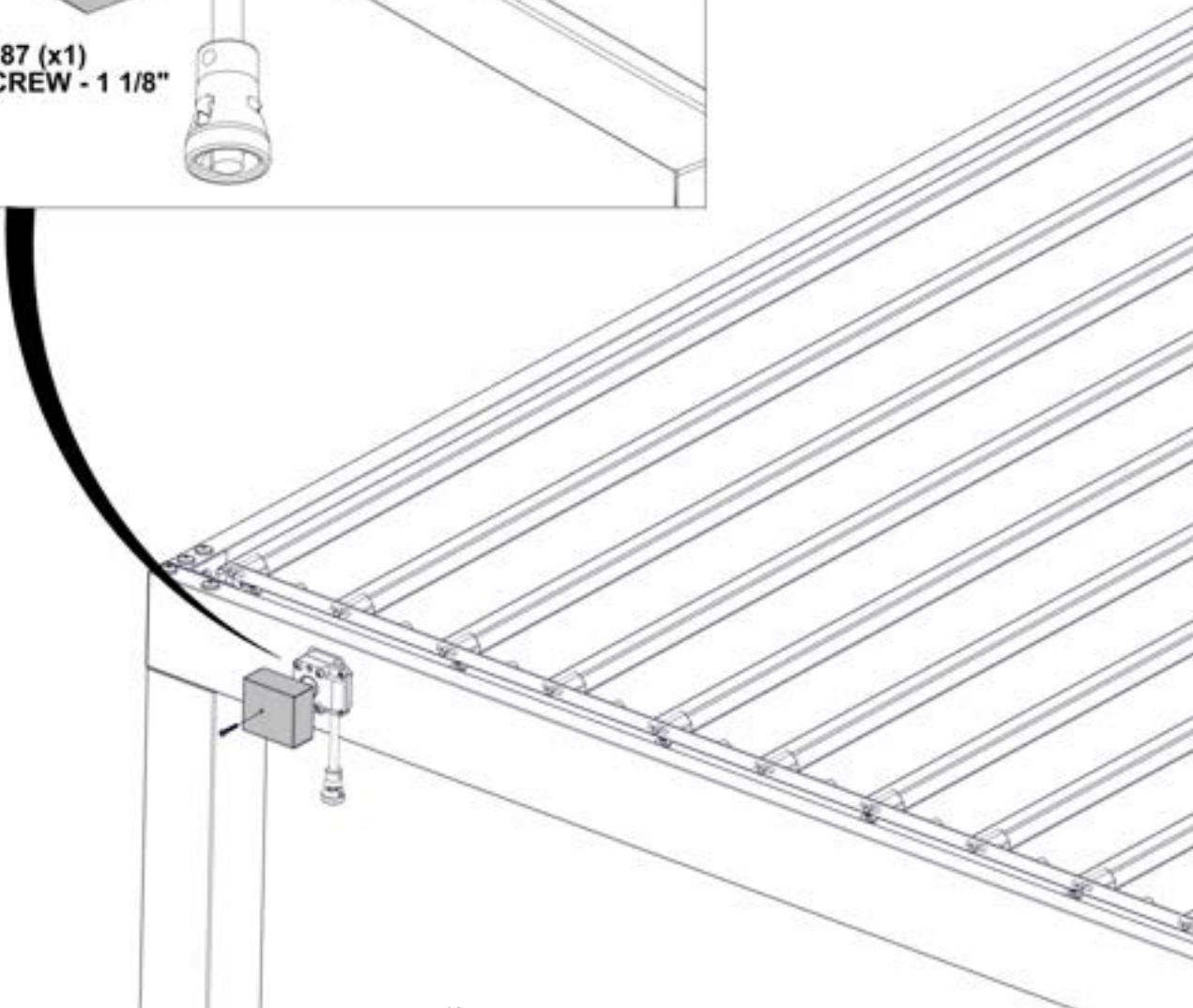


F05 KEY STOCK - A4M02226  
(x1) 1/2"x1/2"x3 3/4" (13x13x95)



**NOTE: ORIENTATION OF  
KEY STOCK. SQUARE END  
FACES OUT**

F05 (x1)  
LOUVER DRIVE AXLE



STEP 28A - LOUVER MECHANISM

| QTY | PartNo  | Description                           |
|-----|---------|---------------------------------------|
| 1   | H100653 | NUT LOCK 1/4 BLK                      |
| 1   | H101189 | LOW PROFILE SHOULDER BOLT 1/4-20x.375 |
| 2   | H100474 | WASHER FLAT 9x18 BLK                  |



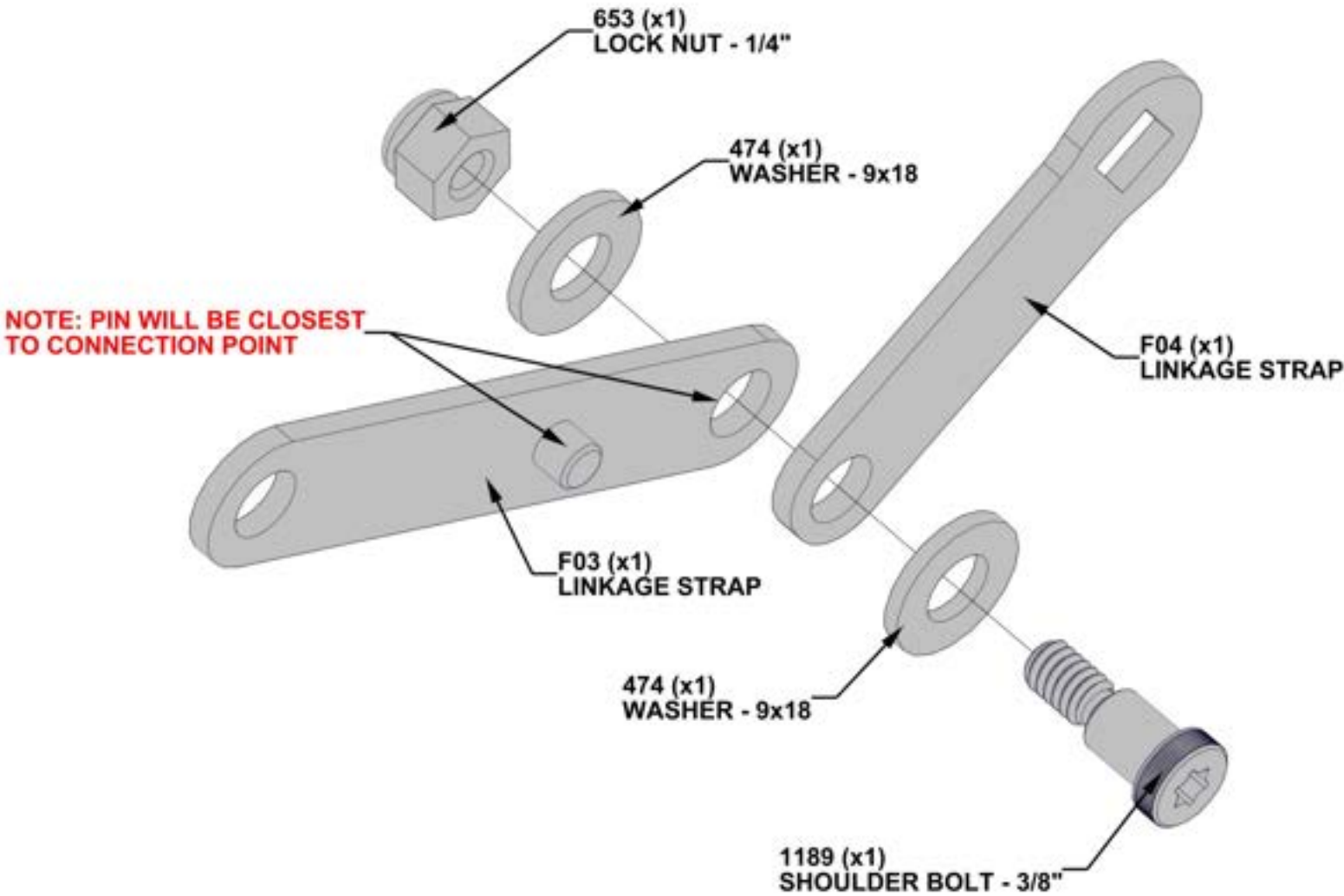
F03 LINKAGE STRAP - A4M02229  
(x1) 1/2"x11/16"x3 13/16" (13x17x97)



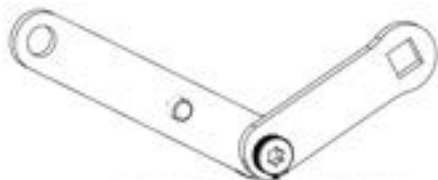
F04 LINKAGE STRAP - A4M02225  
(x1) 1/8"x13/16"x2 5/8" (3x20x66)

LINKAGES MUST BE ORIENTED AS SHOWN BELOW.  
DO NOT OVERTIGHTEN HARDWARE.

LINKAGES SHOULD BE ABLE TO ROTATE FREELY.



# STEP 28B - LOUVER MECHANISM

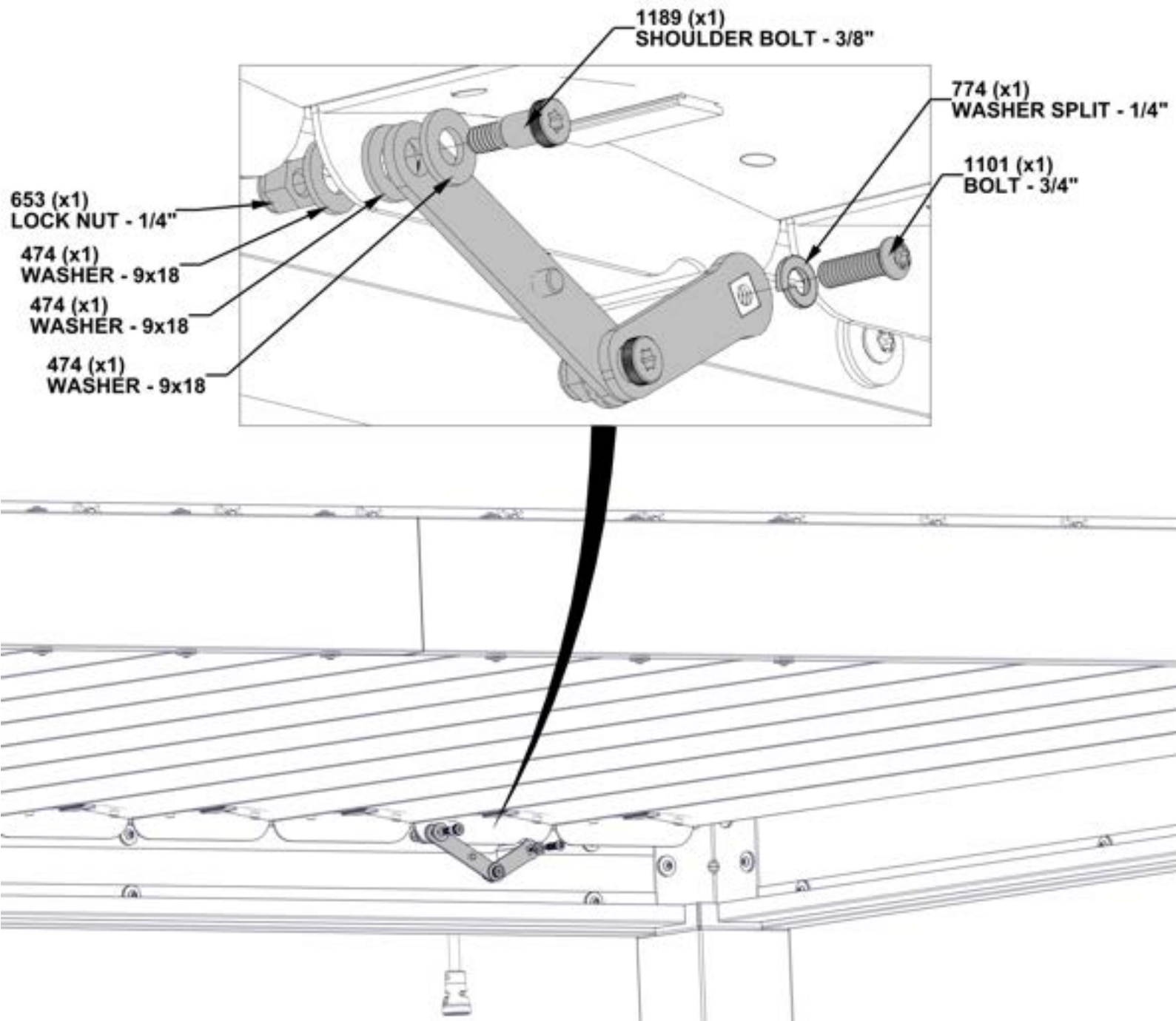


LINKAGE ASSEMBLY  
STEP 28A

| QTY | PartNo  | Description                           |
|-----|---------|---------------------------------------|
| 1   | H100653 | NUT LOCK 1/4 BLK                      |
| 1   | H101189 | LOW PROFILE SHOULDER BOLT 1/4-20x.375 |
| 1   | H101101 | TORX PAN HEAD 1/4-20x3/4"             |
| 1   | H100774 | WASHER SPLIT 1/4 BLK                  |
| 3   | H100474 | WASHER FLAT 9x18 BLK                  |

LINKAGE MUST BE ORIENTED AS SHOWN BELOW.  
DO NOT OVERTIGHTEN HARDWARE.

LINKAGES SHOULD BE ABLE TO ROTATE FREELY.

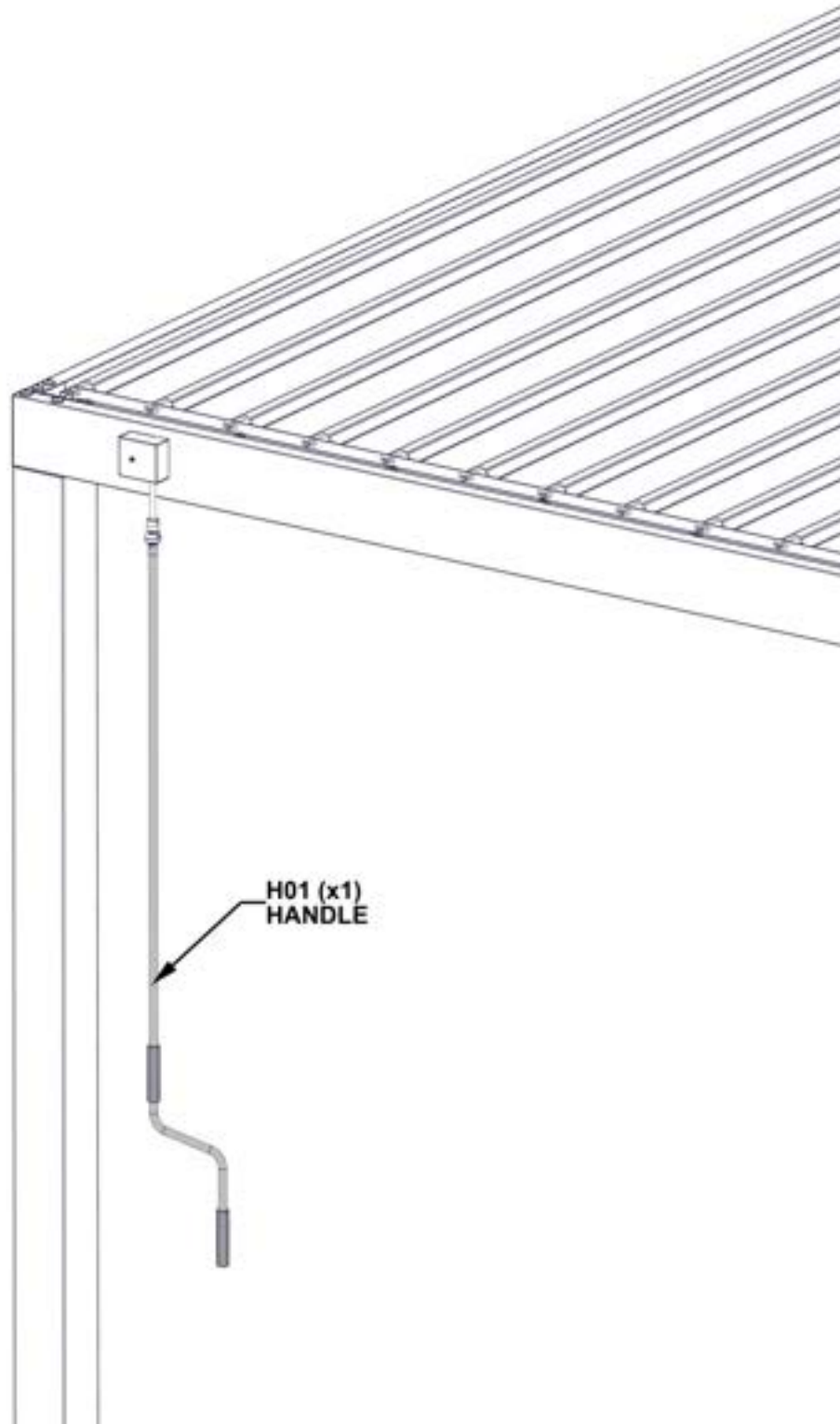


## STEP 28C - LOUVER MECHANISM



H01 HANDLE  
(x1) A4M04022

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



# STEP 29 - PERGOLA ANCHORING

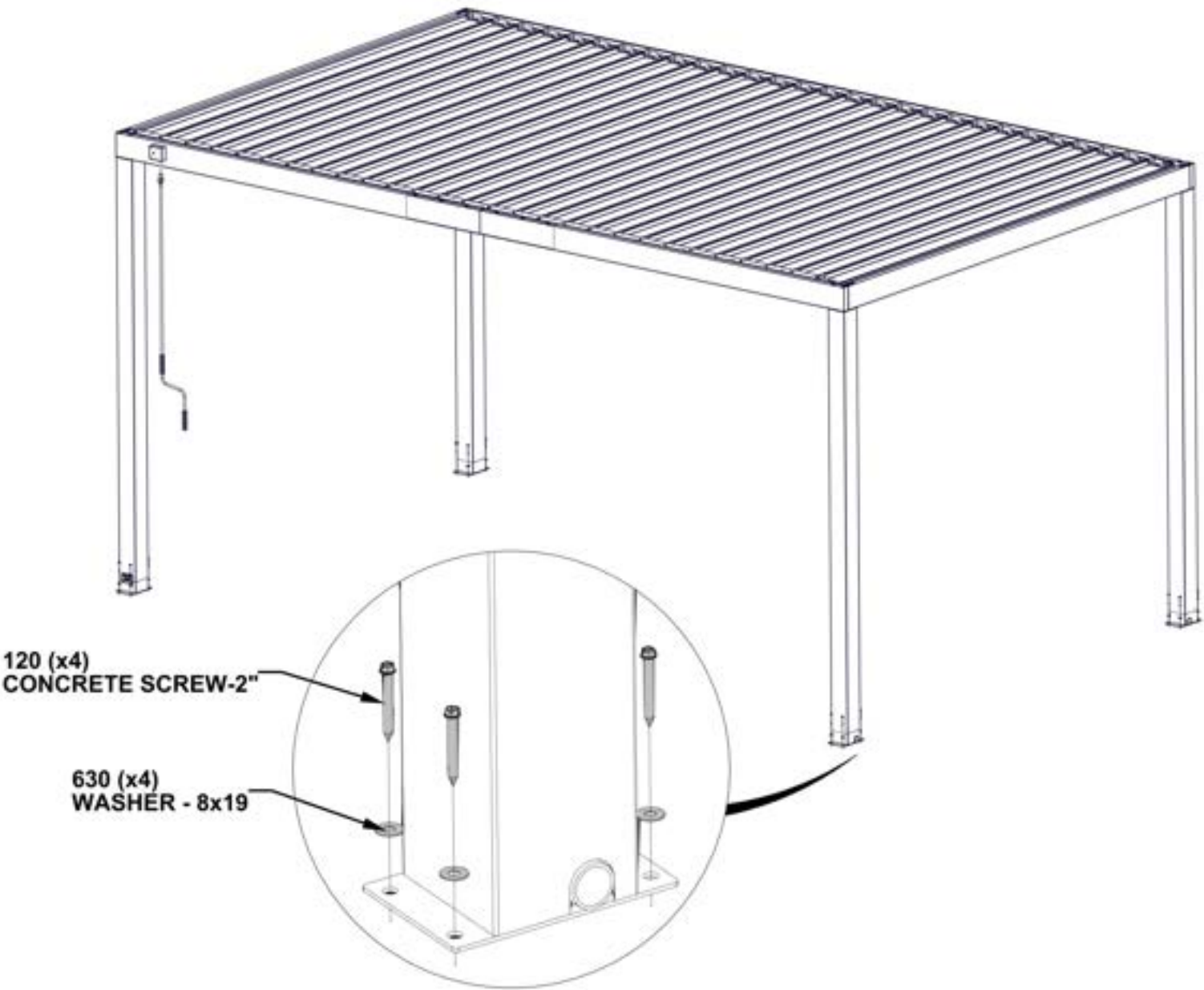
| QTY | PartNo  | Description          |
|-----|---------|----------------------|
| 16  | H100630 | WASHER FLAT 8x19 BLK |
| 16  | H100120 | CONCRETE ANCHOR      |

**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.

REPEAT THIS STEP FOR ALL FOUR POSTS

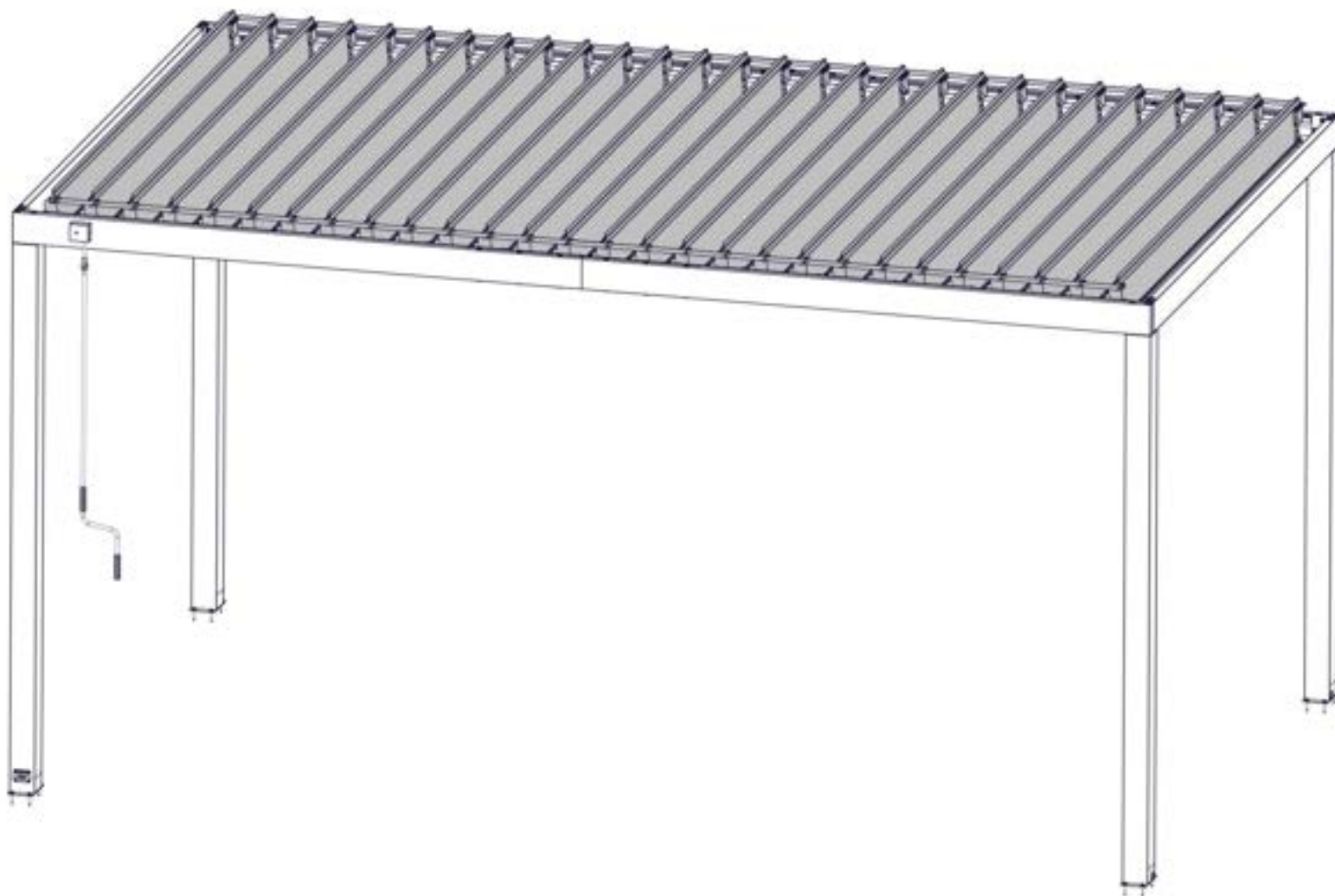
**NOTES:**  
PRE-DRILL HOLES FOR CONCRETE ANCHORS USING A 3/16" CONCRETE DRILL BIT.

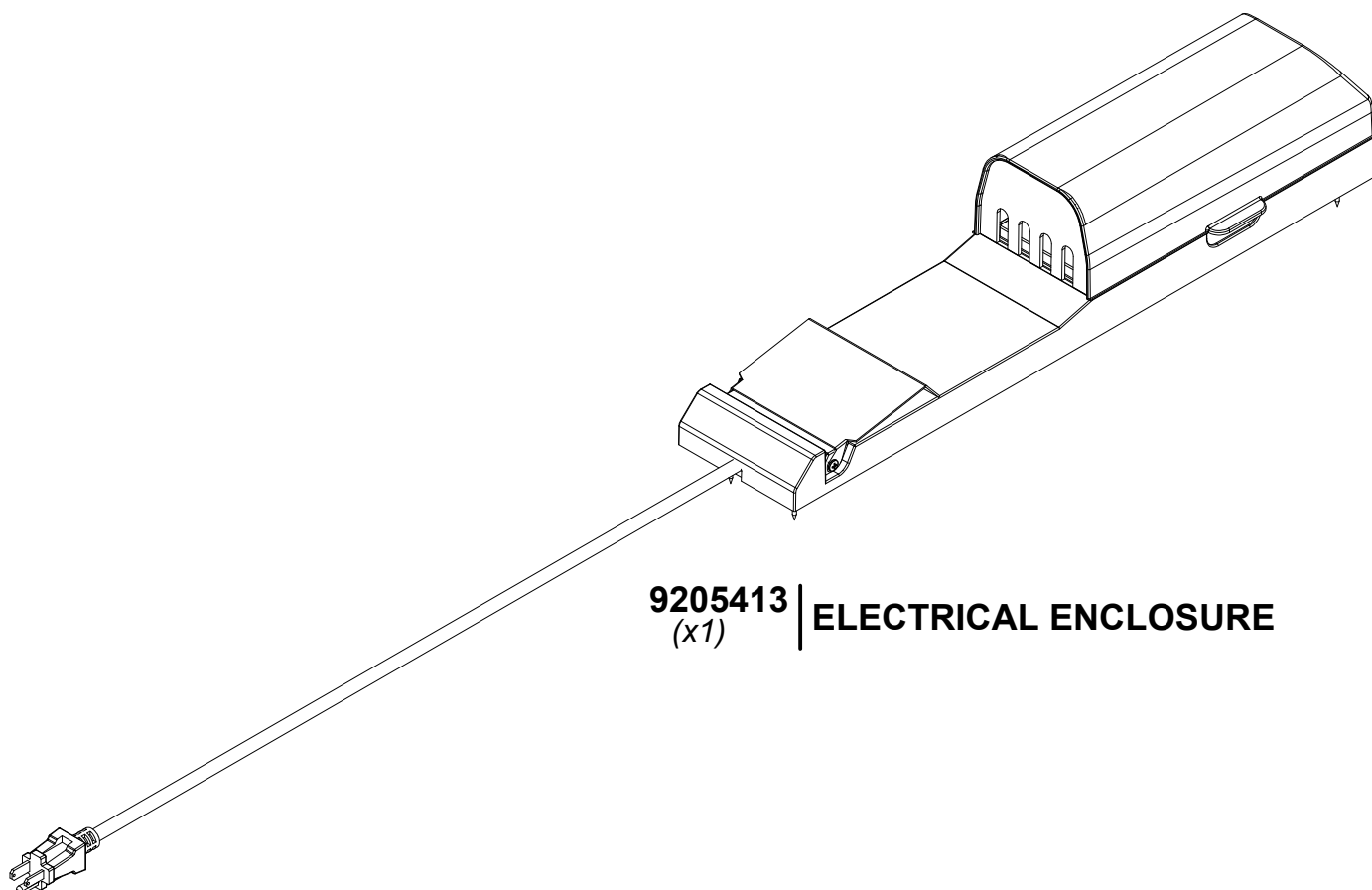


## STEP 30 - PREVENTATIVE MAINTENANCE

IT IS IMPORTANT TO TAKE CAUTION WHEN HIGH WINDS OR WINTER WEATHER SUCH AS ICE OR SNOW IS EXPECTED.

- FOR HIGH WINDS, IT IS RECOMMENDED TO TURN LOUVERS INTO THE CLOSED POSITION.
- FOR INCLEMENT WEATHER SUCH AS SNOW OR ICE, IT IS RECOMMENDED TO TURN LOUVERS INTO THE FULLY OPEN (UPRIGHT) POSITION.





**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.