



Manufactured by:  
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# 10x10 SARASOTA LOUVERED PERGOLA

MODEL #: 2407190B/2407190B-I



## 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



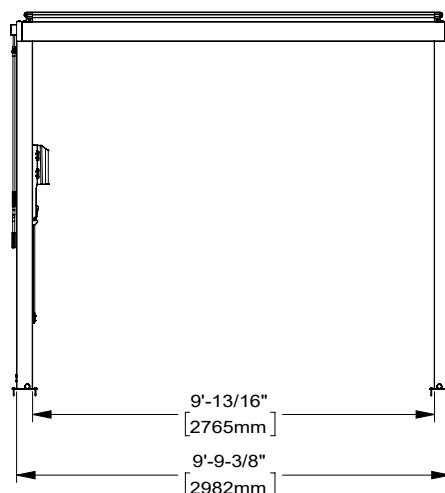
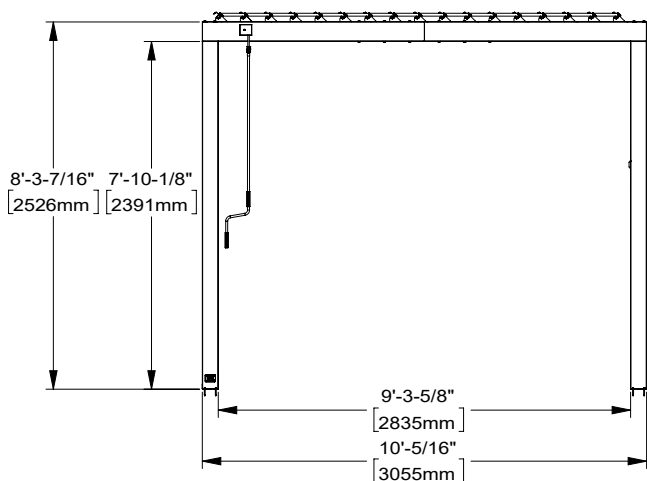
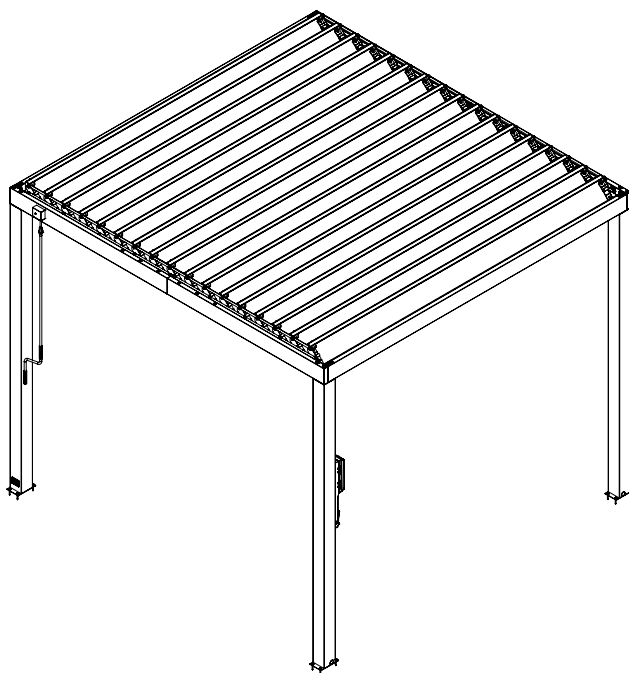
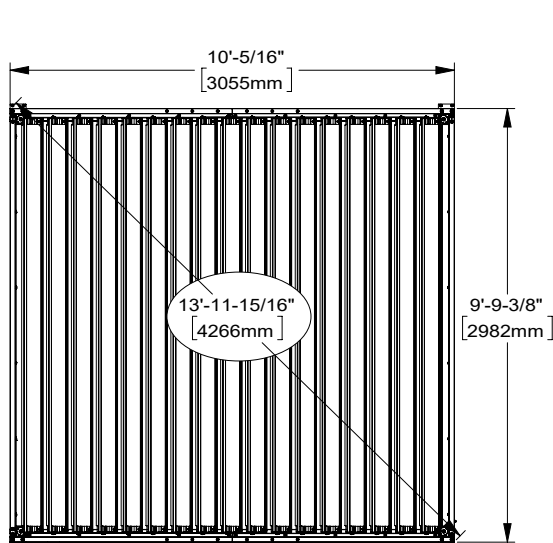
# OWNER'S MANUAL - BASIC SETUP DIMENSIONS & ASSEMBLY NOTES

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

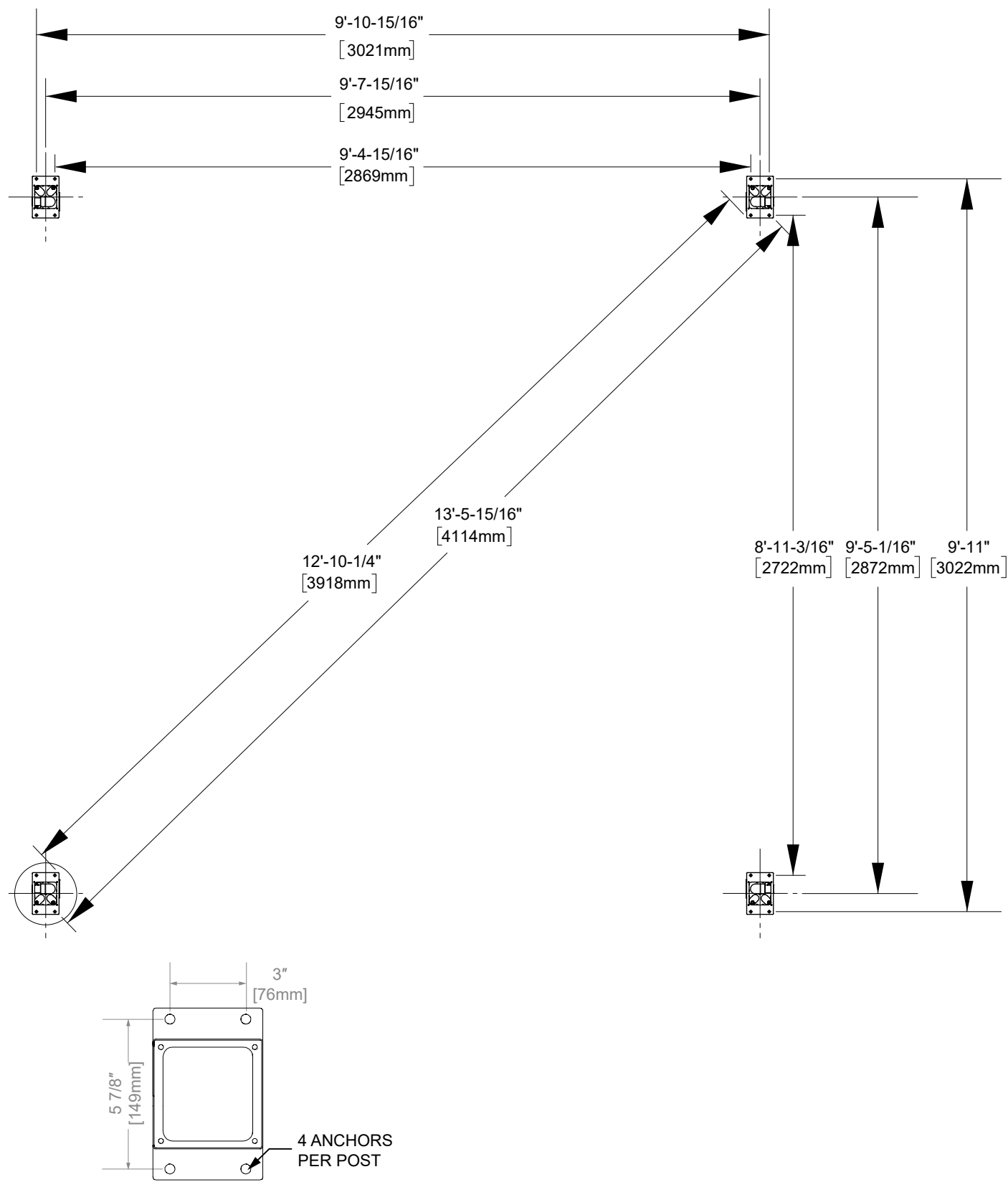
**Post mounts are provided with your structure which allows you to permanently install your structure to a pre-existing or new wood or concrete surface. See Anchor Instructions for further details and recommendations.**

- 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.



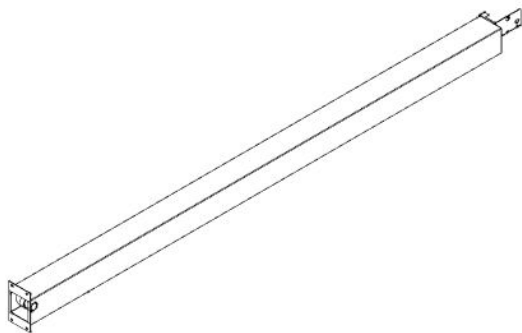
# OWNER'S MANUAL - ANCHORING LAYOUT

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

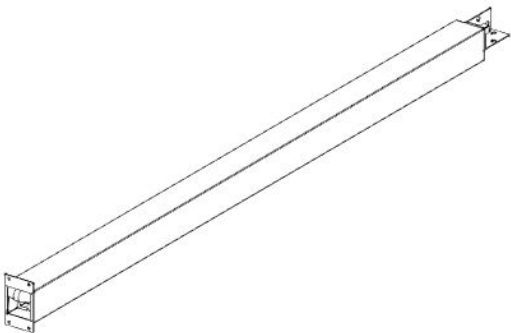


# OWNER'S MANUAL - PARTS IDENTIFICATION

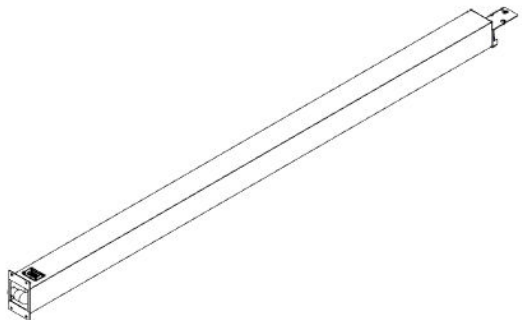
METAL COMPONENTS (NOT TO SCALE)



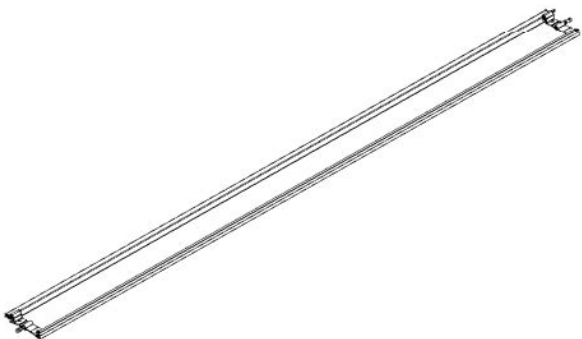
**P01 POST - A4M01983**  
(x1) 4 5/16"x6 3/4"x99 1/2" (110x172x2527)



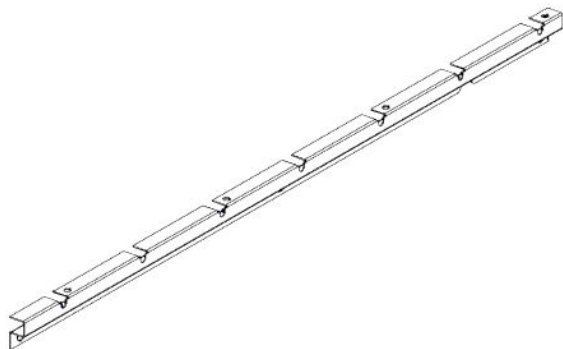
**P02 POST - A4M01984**  
(x2) 4 5/16"x6 3/4"x99 1/2" (110x172x2527)



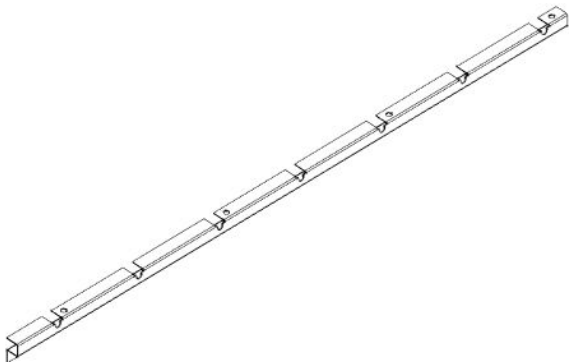
**P03 POST - A4M02131**  
(x1) 4 5/16"x6 3/4"x99 1/2" (110x172x2527)



**L01 LOUVER - A4M04137**  
(x17) 1 11/16"x7 3/4"x114 5/16" (42x196.2x2904)



**M01 LOUVER MOUNT - A4M04530**  
(x1) 1"x1 15/16"x45 5/8" (25x49x1159)



**M02 LOUVER MOUNT - A4M04531**  
(x1) 1"x1 15/16"x45 5/8" (25x49x1159)



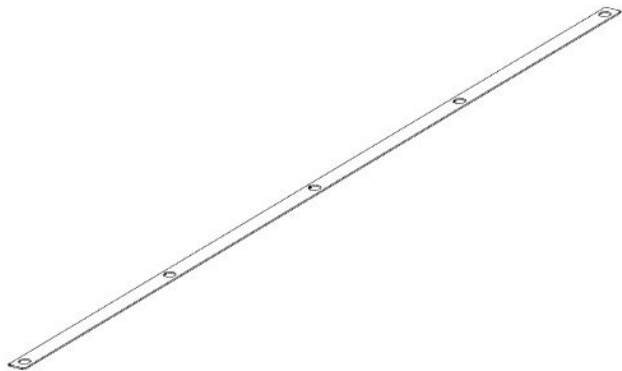
**M03 LOUVER MOUNT - A4M04532**  
(x2) 1"x1 15/16"x65 13/16" (25x48.5x1672)



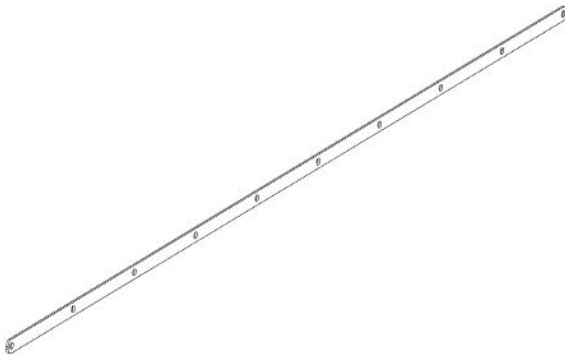
**G01 GUTTER - A4M01993**  
(x2) 1 9/16"x1 15/16"x108 7/8" (40x50x2765)

# OWNER'S MANUAL - PARTS IDENTIFICATION

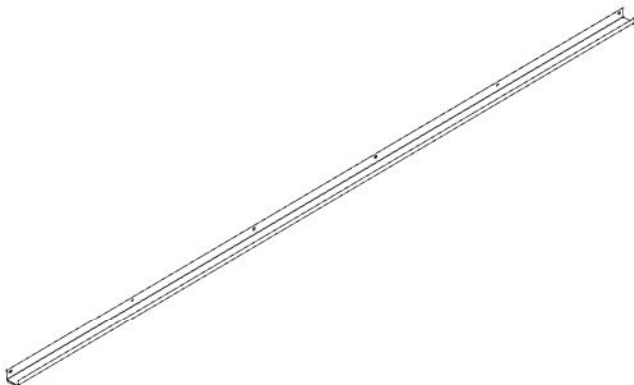
METAL COMPONENTS (NOT TO SCALE)



F01 FLAT BAR - A4M04122  
(x4) 1/16"x1"x55 3/4" (2x25x1416)



F02 LOUVER TIE STRAP - A4M04121  
(x4) 1/8"x13/16"x61 3/8" (3x20x1559)



G03 GUTTER - A4M04120  
(x2) 1 9/16"x1 15/16"x111 11/16" (40x50x2837)



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



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



B02 BEAM - A4M04301  
(x1) 1 7/16"x5 1/4"x60 1/8" (36x134x1527)



B03 BEAM - A4M04123  
(x2) 1 7/16"x5 1/4"x60 1/8" (36x134x1527)



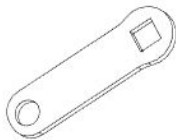
B04 BEAM - A4M04528  
(x1) 1 7/16"x5 1/4"x60 1/8" (36x134x1527)

# OWNER'S MANUAL - PARTS IDENTIFICATION

METAL COMPONENTS (NOT TO SCALE)



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



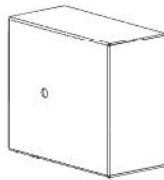
**F04 LINKAGE STRAP - A4M02225**  
(x1) 1/8"x13/16"x2 5/8" (3x20x66)



**F05 LOUVER DRIVE AXLE - A4M02226**  
(x1) 1/2"x1/2"x3 3/4" (13.0x13.0x95)



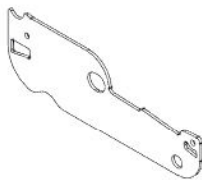
**F06 SPACER - A4M02227**  
(x1) 1/16"x2 3/16"x2 3/4" (1.5x56x70)



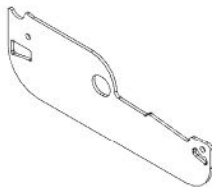
**F07 COVER - A4M02228**  
(x1) 1 9/16"x2 7/8"x3 1/4" (39.5x73x82)



**L04 LOUVER MECHANISM - A4M02132**  
(x1) 11/16"x2 1/2"x2 7/8" (17x64x73)



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



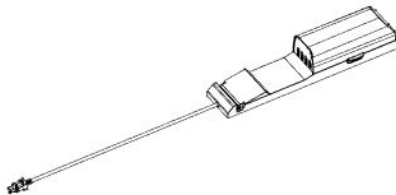
**L03 LOUVER SIDE PLATE - A4M04138**  
(x33) 1/16"x2 3/16"x6 9/16" (2x55x167)



**A6P00796 SILICONE**  
(x1)



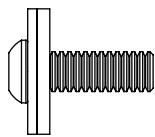
**H01 HANDLE - A4M04022**  
(x1)



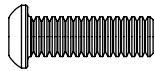
**9205413 ELECTRICAL ENCLOSURE**  
(x1)

# OWNER'S MANUAL - PARTS IDENTIFICATION

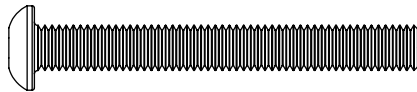
## HARDWARE COMPONENTS



**H101202 | TORX PAN HEAD 1/4-20x3/4 ASSY**  
(x106) | 1/4-20x3/4 ASSY



**H101101 | TORX PAN HEAD**  
(x1) | 1/4-20x3/4" BLK



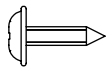
**H101126 | TORX PAN HEAD**  
(x4) | 1/4-20x2 1/8" BLK



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



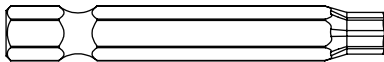
**H101189 | LOW PROFILE SHOULDER BOLT**  
(x2) | 1/4-20x3/8" BLK



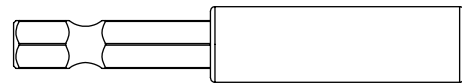
**H100408 | SCREW PWH**  
(x68) | 8x1/2 BLK



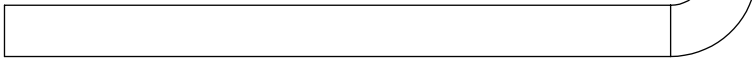
**H101230 | BOLT WH**  
(x16) | 5/16x6 S.S



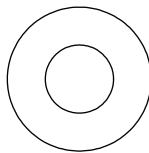
**H100147 | TORX BIT**  
(x1) | T-30



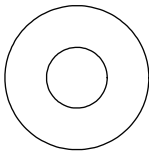
**H101100 | MAGNETIC DRIVER**  
(x1)



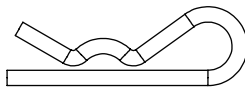
**H100114 | TORX BIT**  
(x1) | T-30



**H100474 | WASHER FLAT**  
(x5) | 9x19 BLK



**H100630 | WASHER FLAT**  
(x16) | 8x19 BLK



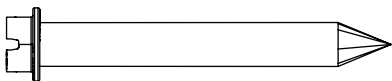
**H101161 | COTTER PIN**  
(x34) |



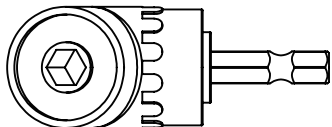
**H100653 | NUT LOCK**  
(x2) | 1/4 BLK



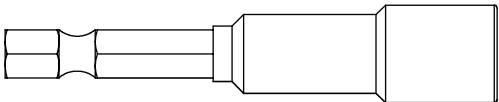
**H100774 | WASHER SPLIT**  
(x1) | 1/4 BLK



**H100120 | CONCRETE ANCHOR**  
(x16) | 1/4x2" BLK



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



**H101106 | SOCKET DRIVER**  
(x1)

# PRE-ASSEMBLY STEP 1 - SORTING PARTS

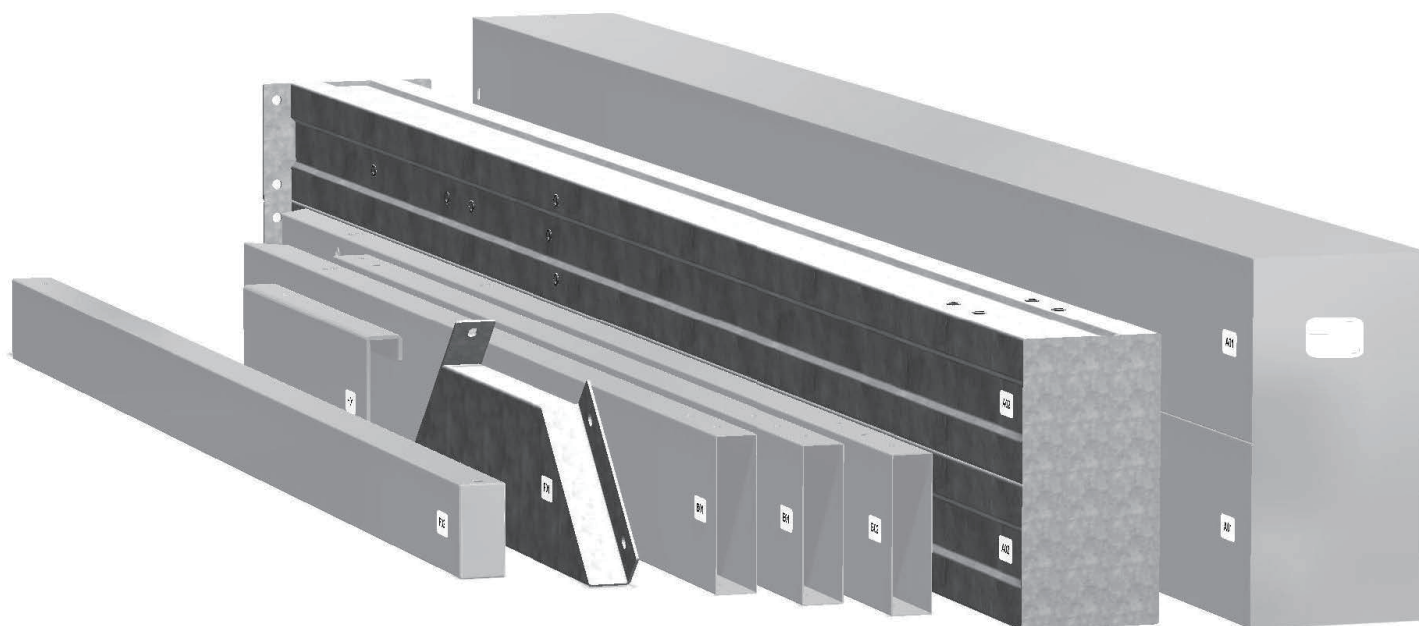
It is critical for ease of assembly that you take the time to sort and organize the parts and hardware.

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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.

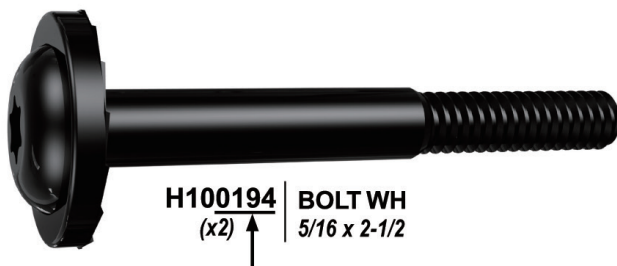
**NOTE: CARTONS ARE NOT ORGANIZED BY PART NUMBER.  
IT IS RECOMMENDED TO LEAVE LOUVER ASSEMBLIES IN BOX UNTIL NEEDED.**



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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"



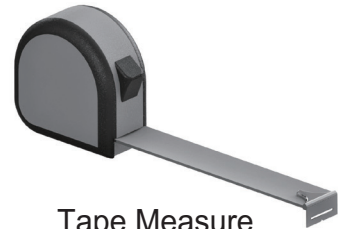
3/8" Drive Ratchet, 1/2" &  
7/16" STD Sockets 1/2" & 7/16"  
Deep Sockets



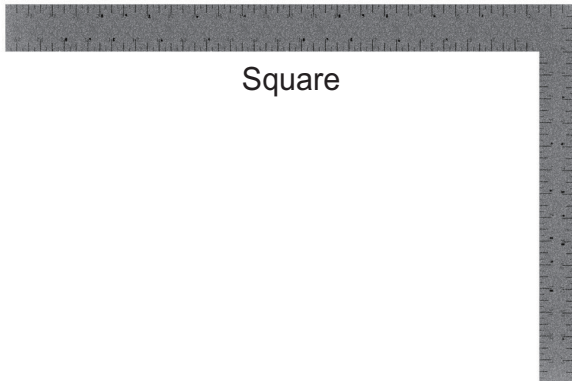
Claw Hammer



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





# STEP 1 - BEAM ASSEMBLY

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

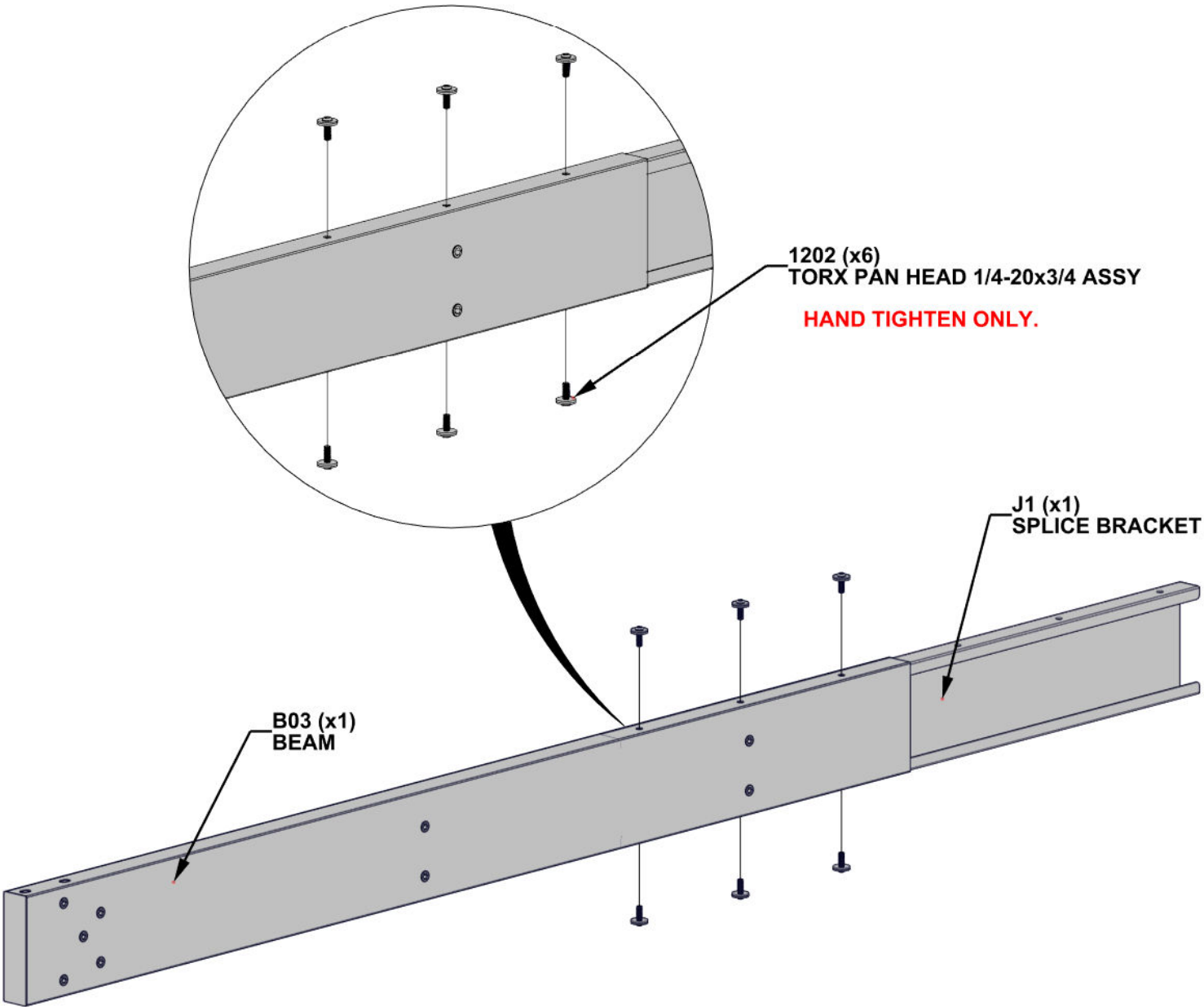


B03 BEAM - A4M04123  
(x1) 1 7/16"x5 1/4"x60 1/8" (36x134x1527)



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

- FOR EASE OF ASSEMBLY, WE RECOMMEND USING SAWHORSES FOR STEPS 1-7.
- BEAM AND SPLICE MUST BE ORIENTED AS SHOWN BELOW. SLIDE J1 INTO B03 AND LINE UP THREE HOLES TOP AND BOTTOM.



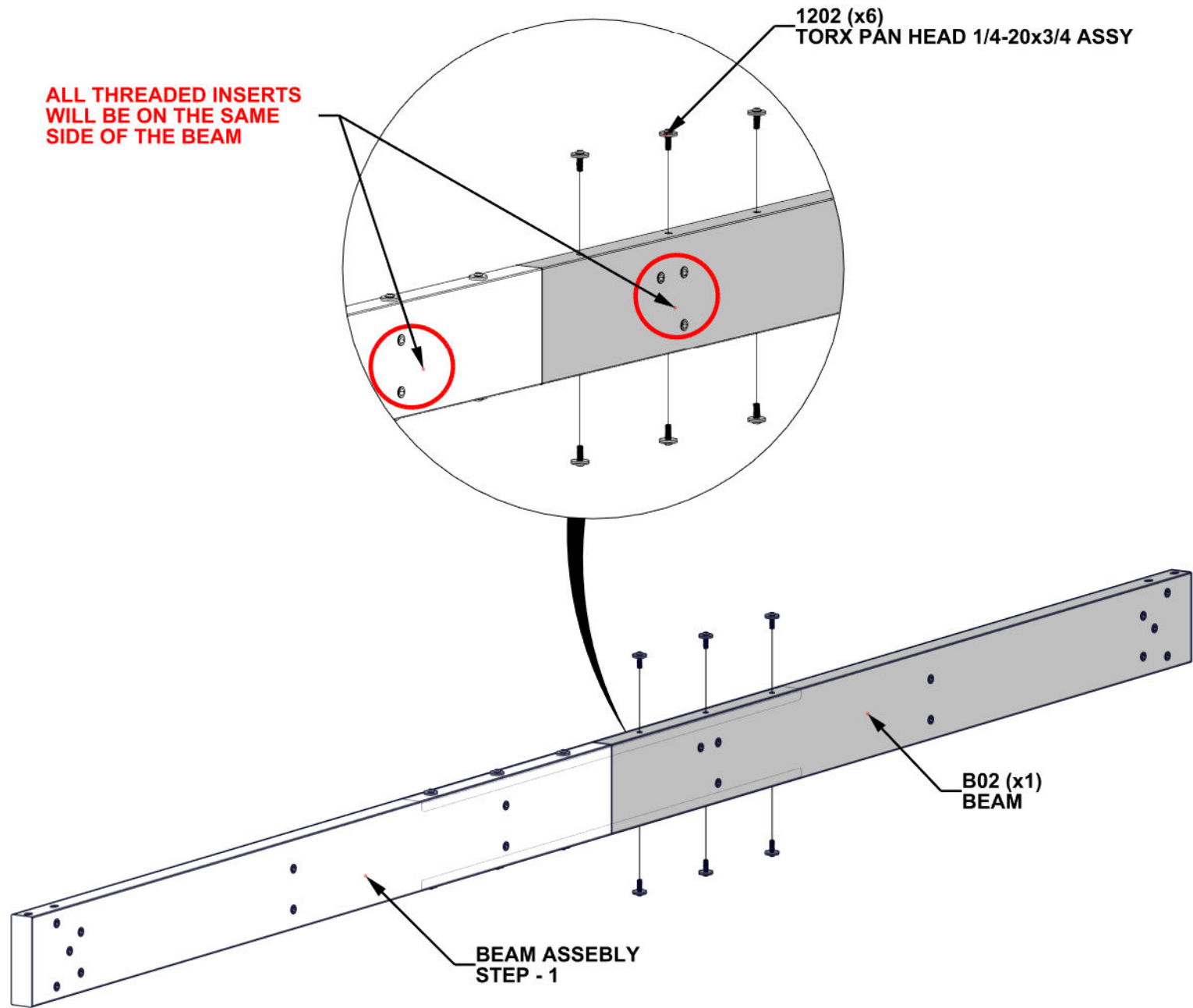
# STEP 2 - BEAM ASSEMBLY

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



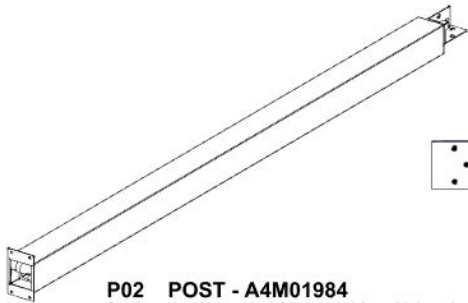
B02 BEAM - A4M04301  
(x1) 1 7/16"x5 1/4"x60 1/8" (36x134x1527)

- SLIDE B02 ONTO 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.

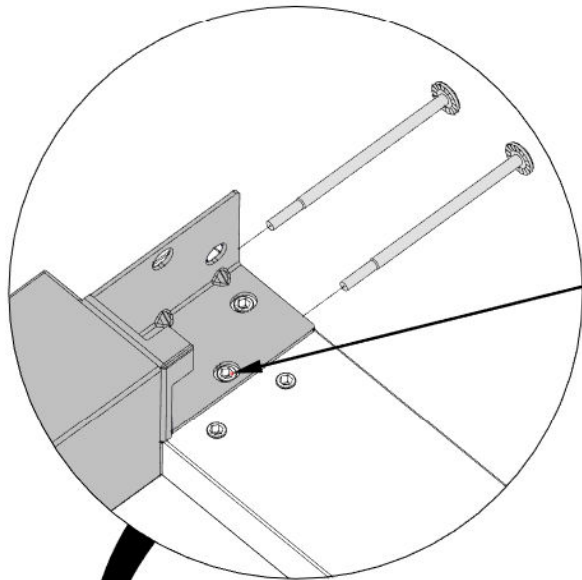


P02 POST - A4M01984  
(x1) 4 5/16"x6 3/4"x99 1/2" (110x172x2527)



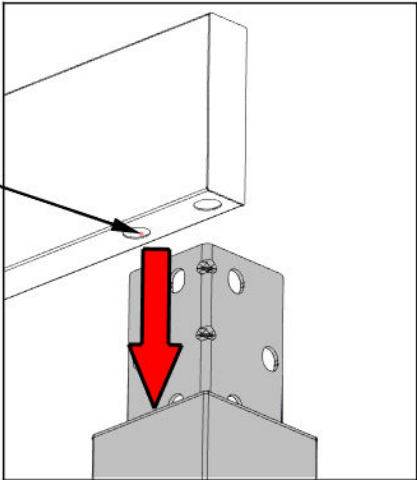
BEAM ASSEMBLY STEP - 2

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

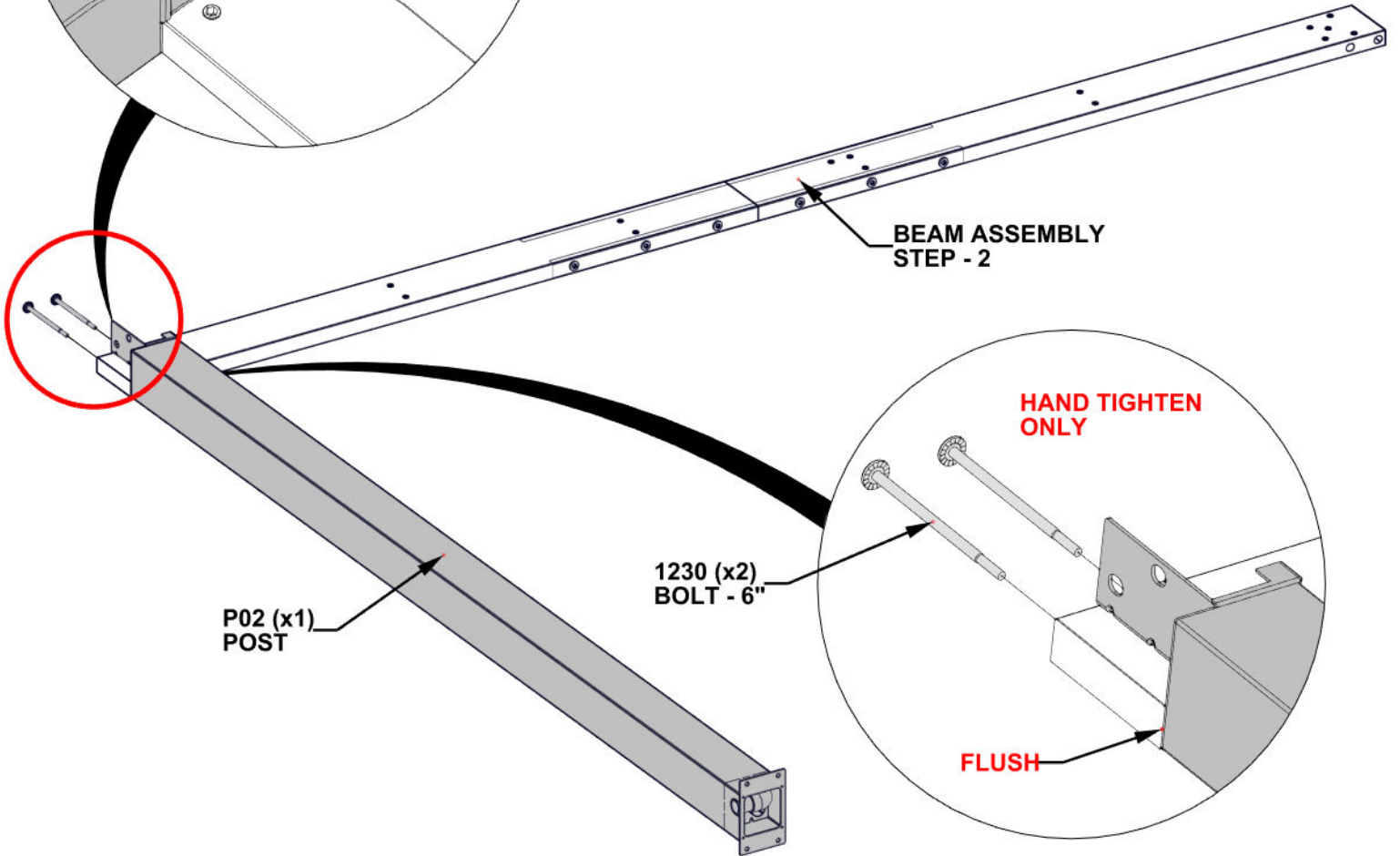


LARGE SLOTS INDICATE  
BOTTOM SURFACE OF BEAM.  
SLOTS WILL FIT AROUND THREADED  
INSERTS IN POST PLATE.

POST BRACKET WILL  
FIT AROUND THREADED  
INSERTS IN BEAM

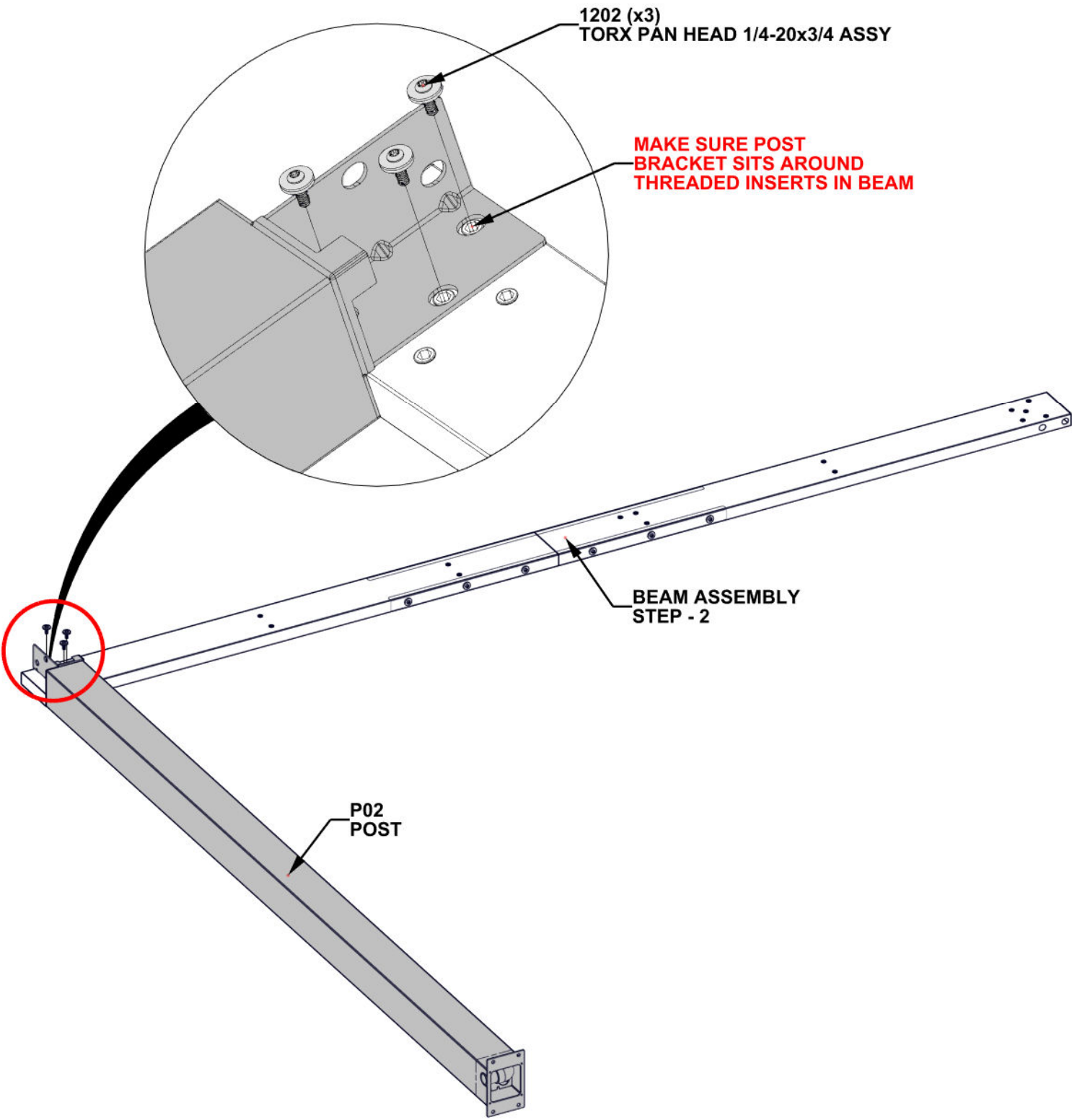


BACK VIEW



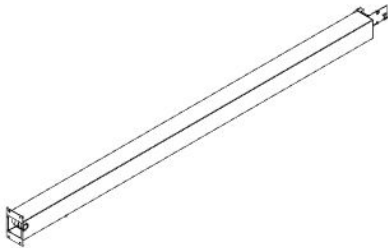
# STEP 3B - FRAME ASSEMBLY

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



# STEP 4A - FRAME ASSEMBLY

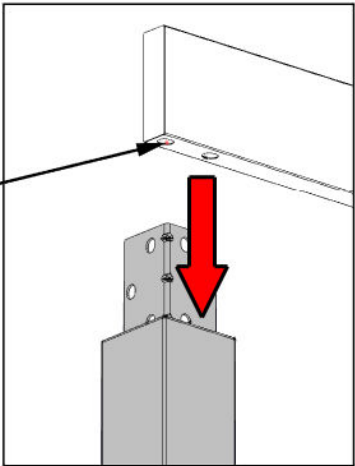
Qty	PartNo	Description
2	H101230	BOLT WH 5/16x6 S.S.



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

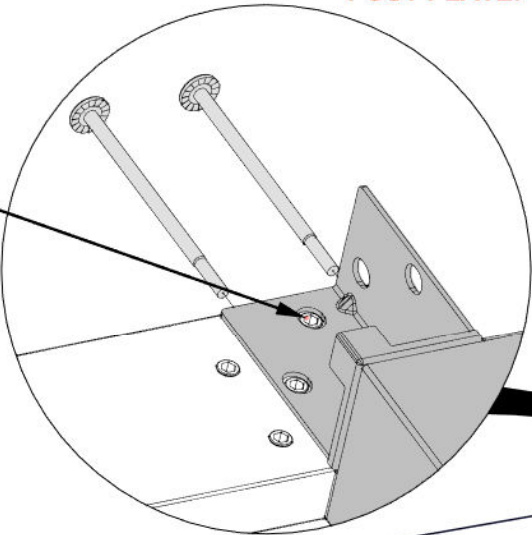
- ATTACH BEAM ASSEMBLY TO POST BY ALIGNING SLOTS IN BEAM WITH THREADED INSERTS ON TOP POST PLATE. FLUSH ALL SIDES OF BEAM AND POST BEFORE TIGHTENING HARDWARE.

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



BACK VIEW

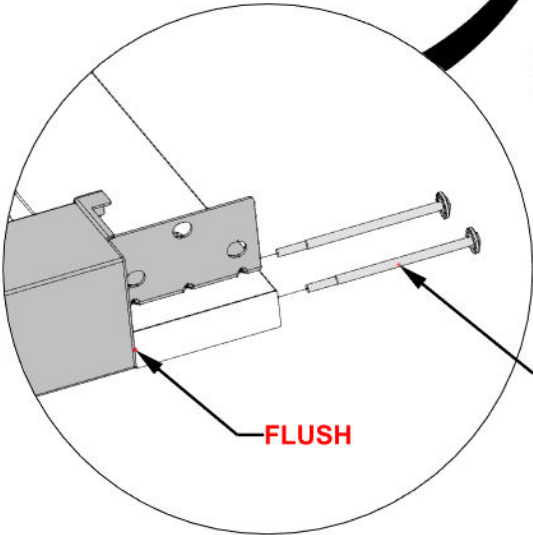
POST BRACKET WILL  
FIT AROUND THREADED  
INSERTS IN BEAM



BEAM ASSEMBLY  
STEP - 2

P01 (x1)  
POST

P02  
POST

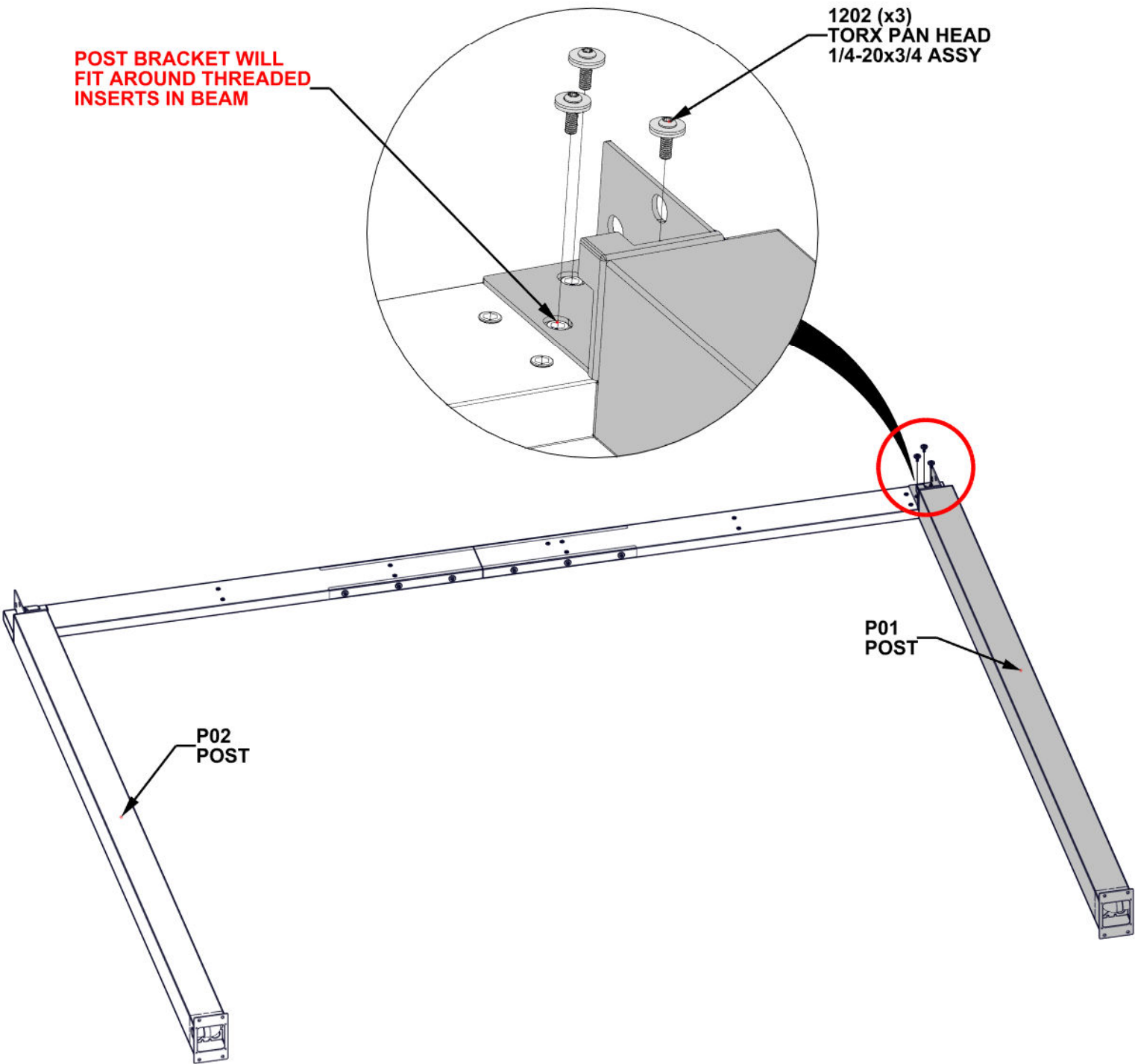


1230 (x2)  
BOLT - 6"

FLUSH

# STEP 4B - FRAME ASSEMBLY

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

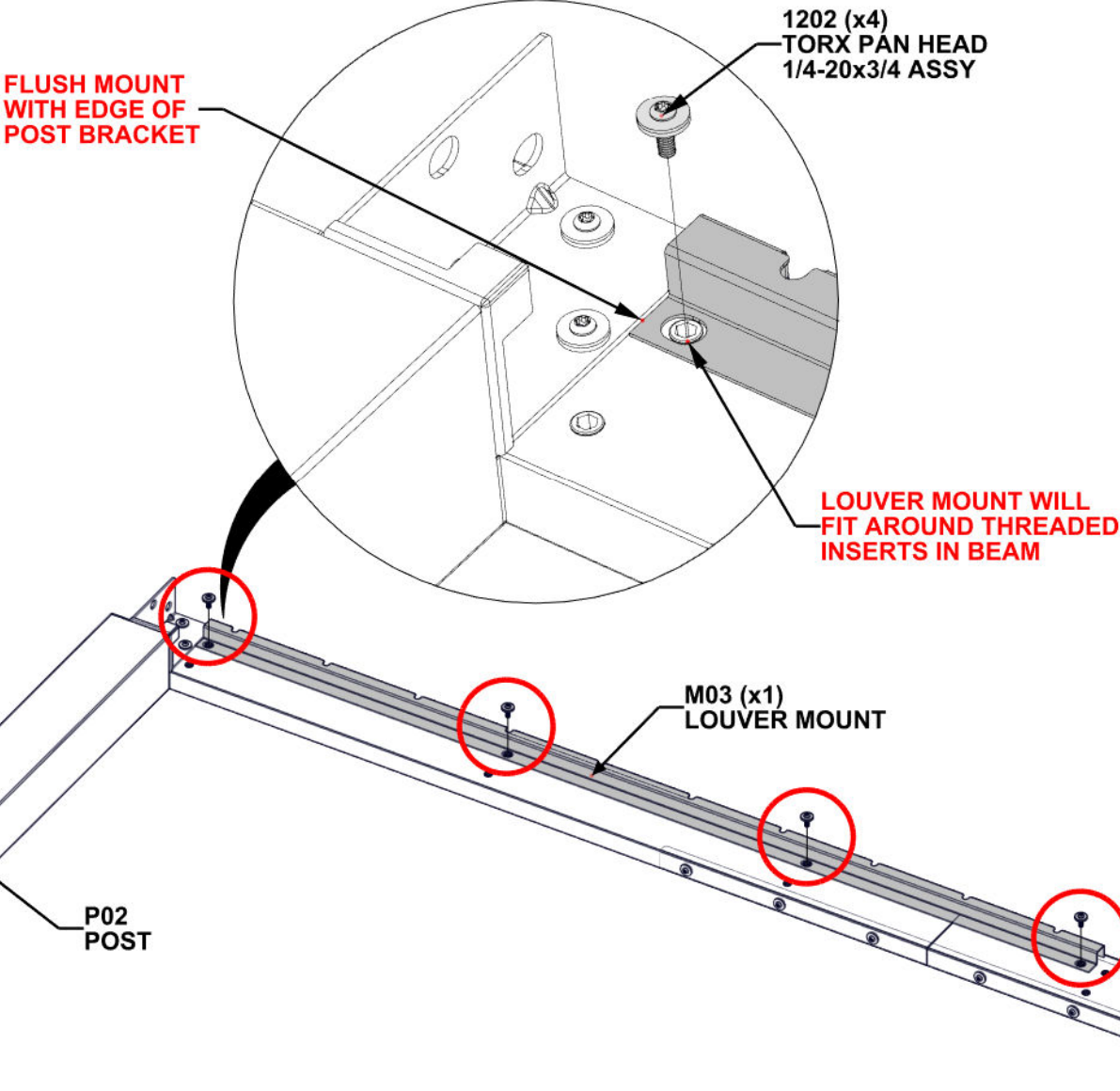


# STEP 5 - LOUVER MOUNT ATTACHMENT

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

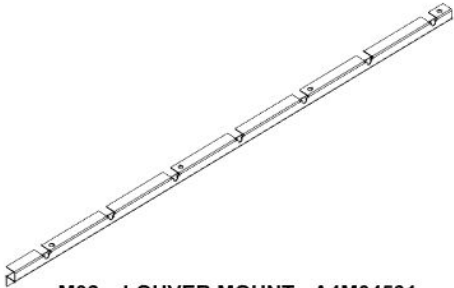


M03 LOUVER MOUNT - A4M04532  
(x1) 1"x1 15/16"x65 13/16" (25x48.5x1672)

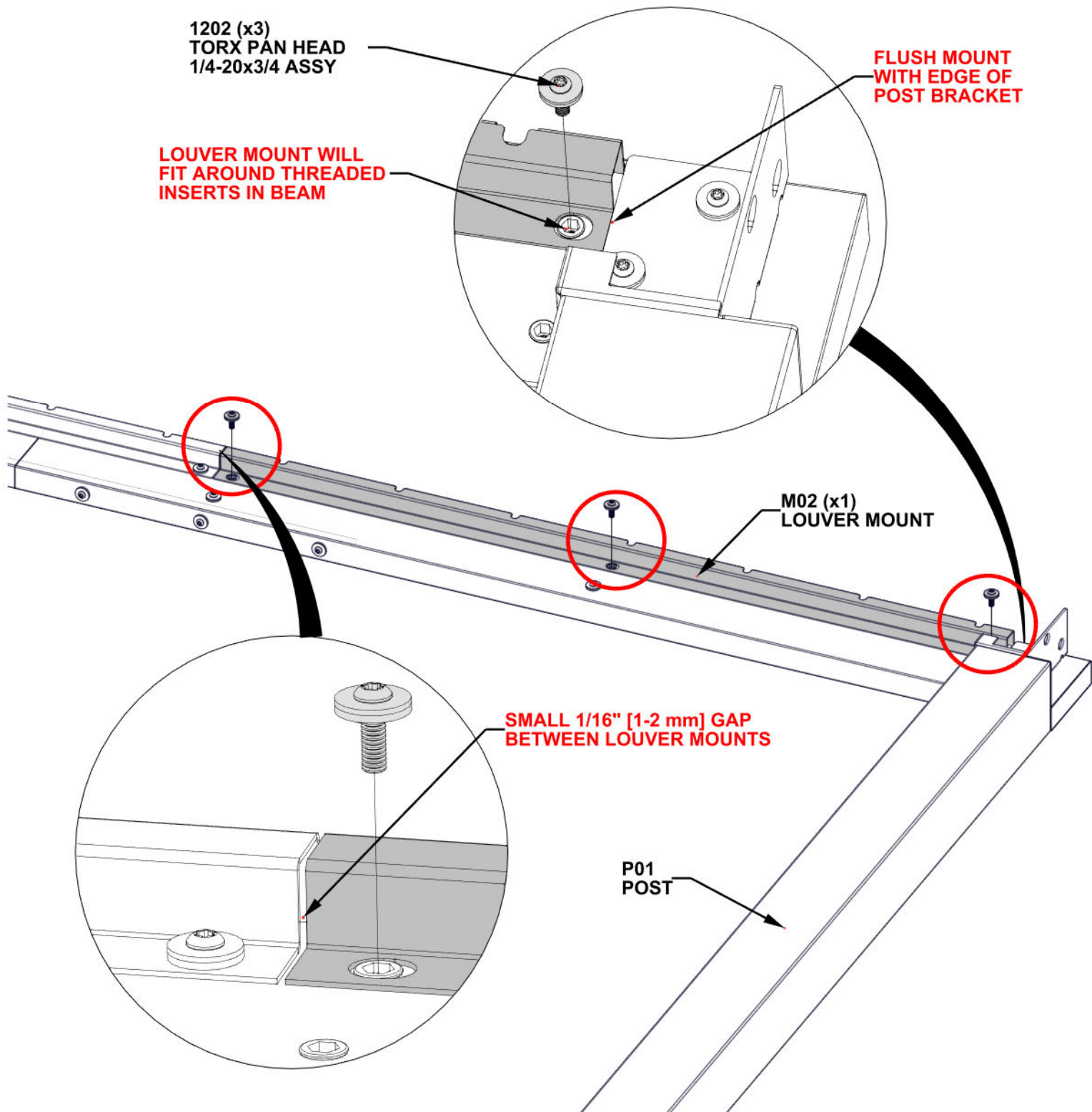


# STEP 6 - LOUVER MOUNT ATTACHMENT

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

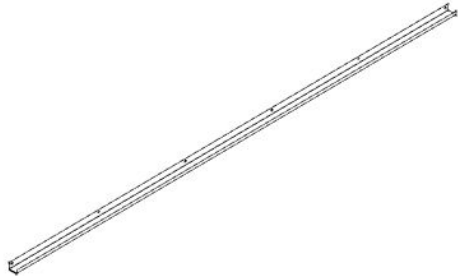


M02 LOUVER MOUNT - A4M04531  
(x1) 1"x1 15/16"x45 5/8" (25x49x1159)



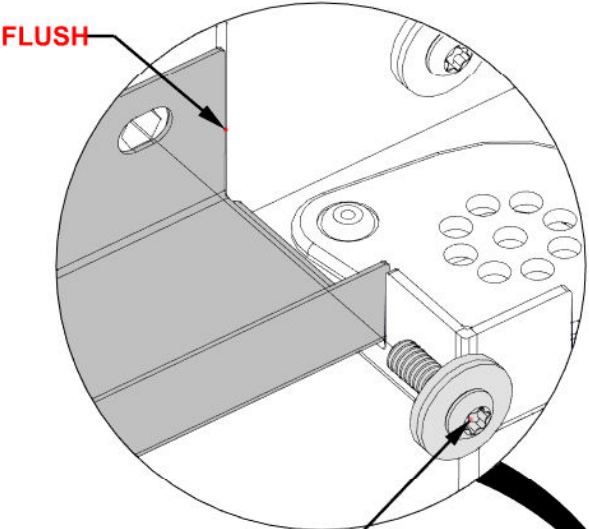
# STEP 7 - GUTTER ATTACHMENT

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

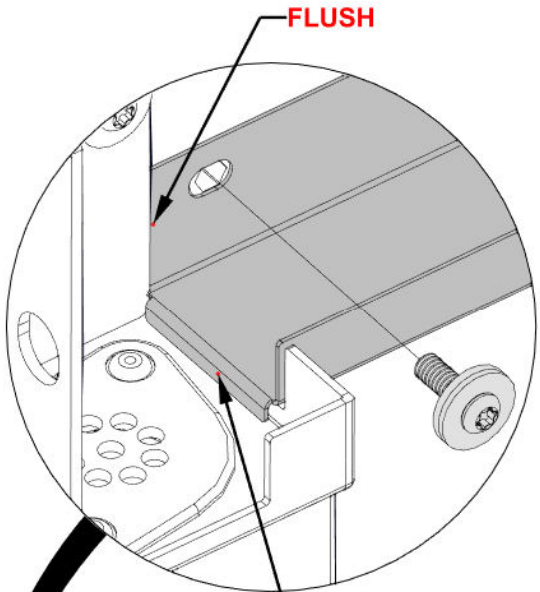


G03 GUTTER - A4M04120  
(x1) 1 9/16"x1 15/16"x111 11/16" (40x50x2837)

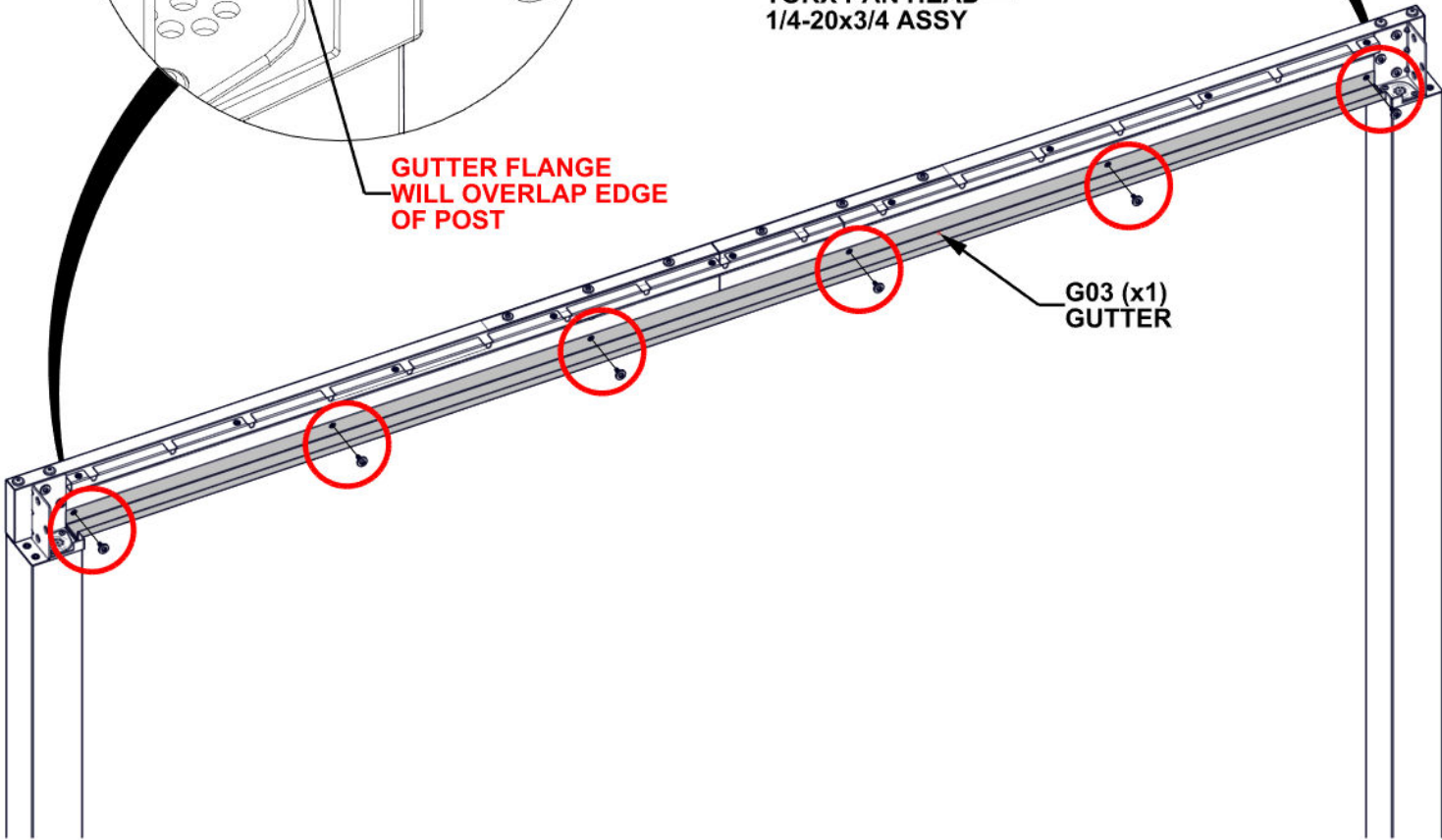
- WITH AT LEAST TWO PEOPLE, ATTACH GUTTER ASSEMBLY TO BEAM.
- MAKE SURE ENDS OF GUTTER SIT ON TOP SURFACE OF EACH POST BRACKET.



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



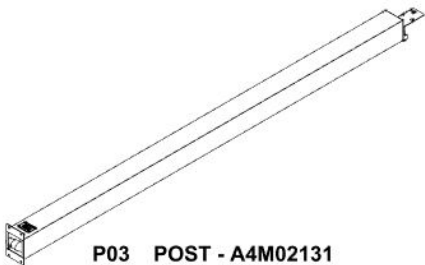
GUTTER FLANGE  
WILL OVERLAP EDGE  
OF POST



G03 (x1)  
GUTTER

# STEP 8A - LEFT FRAME ASSEMBLY

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

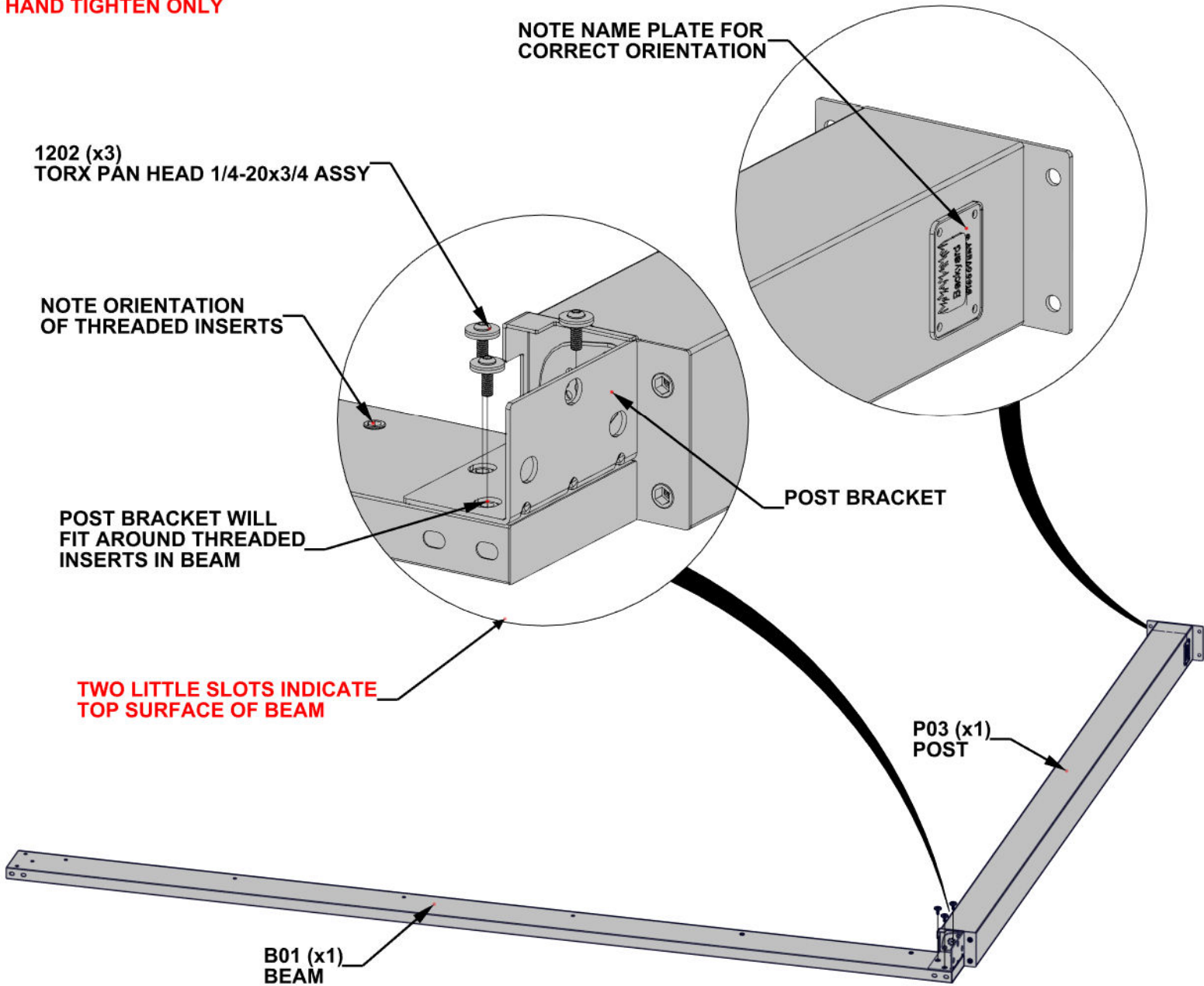


P03 POST - A4M02131  
(x1) 4 5/16"x6 3/4"x99 1/2" (110x172x2527)



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

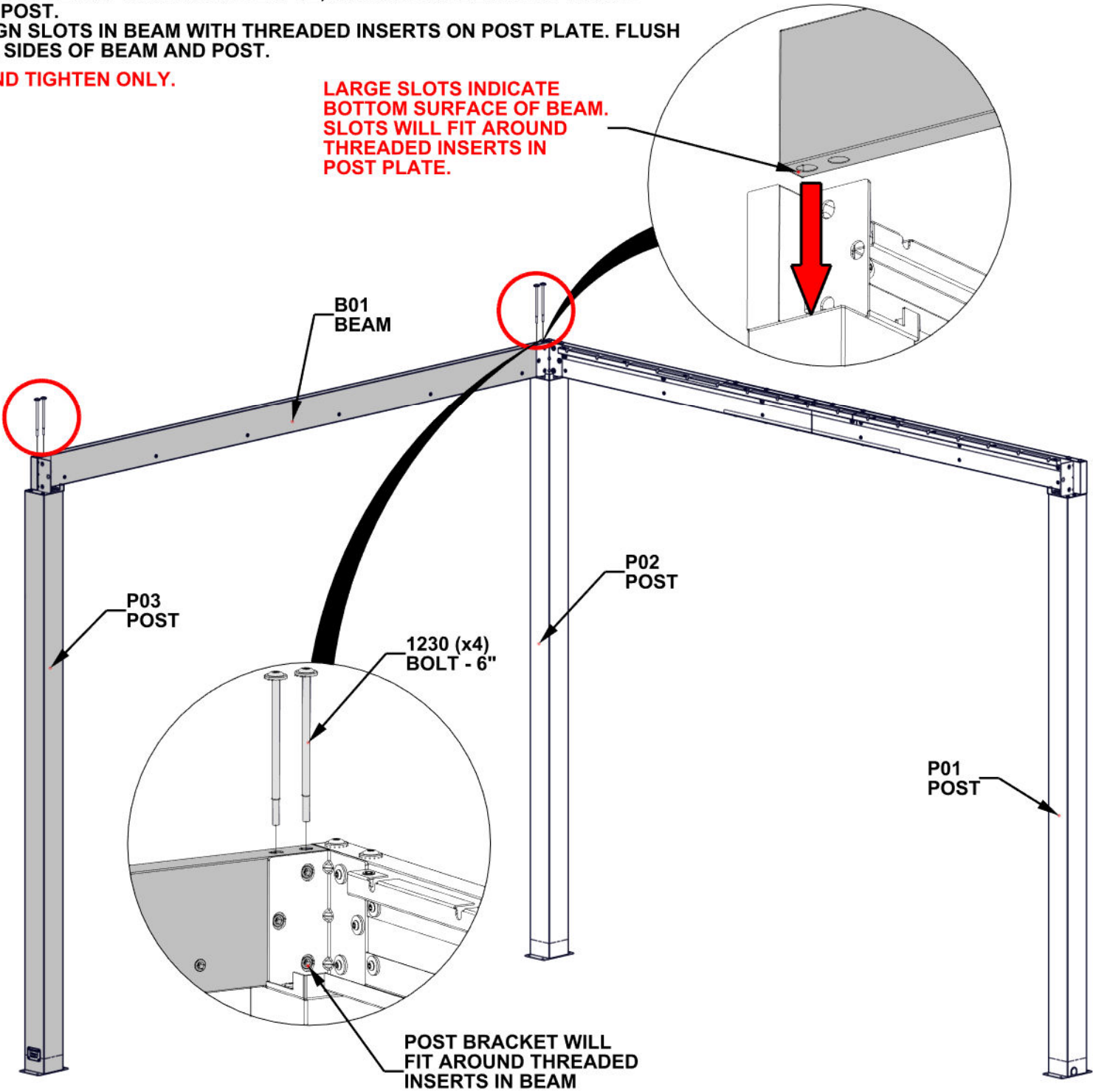
- ATTACH B01 BEAM TO POST BRACKET ON P03.
- HAND TIGHTEN ONLY



# STEP 8B - LEFT FRAME ASSEMBLY

Qty	PartNo	Description
4	H101230	BOLT WH 5/16x6 S.S.

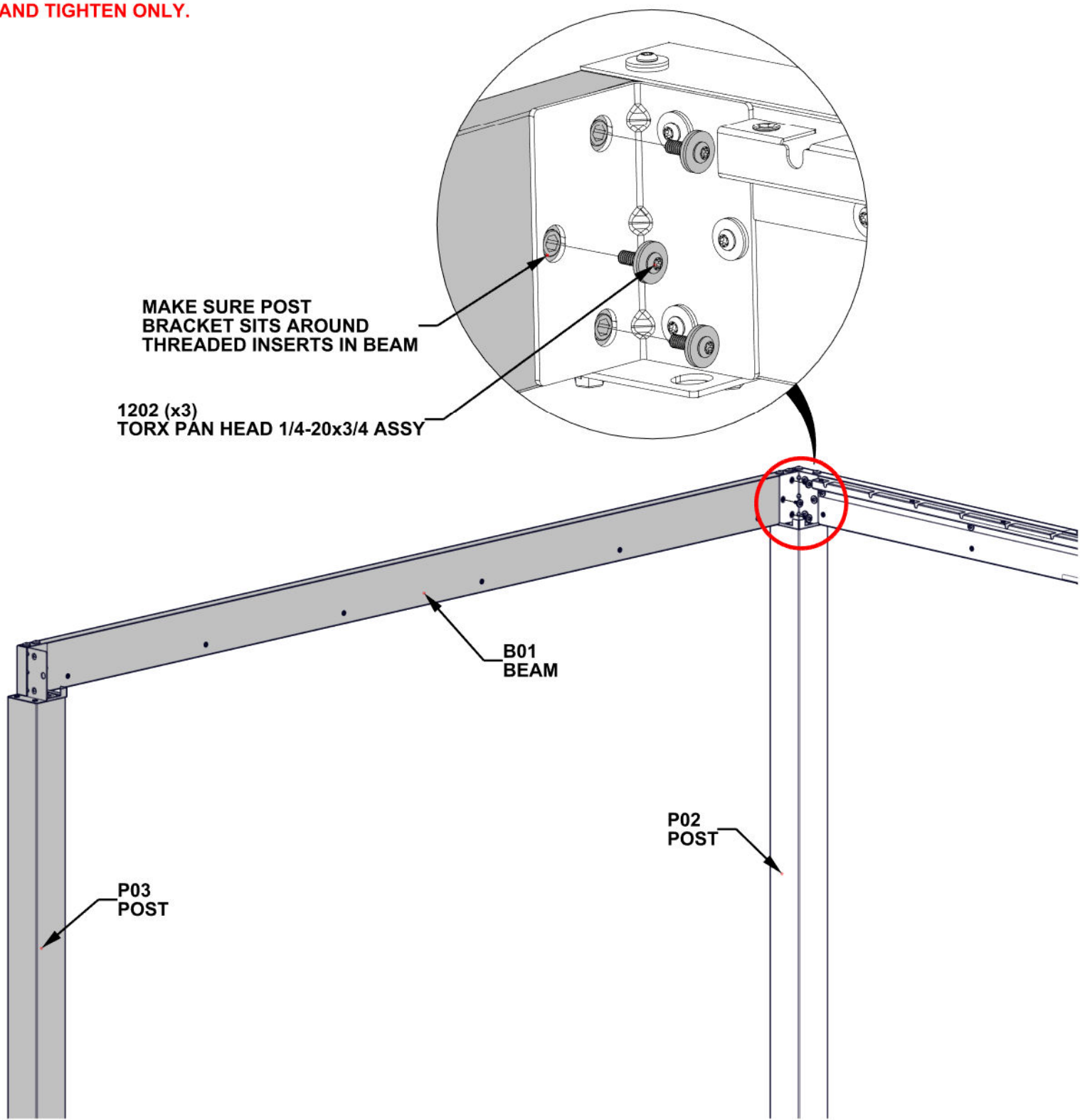
- WITH AT LEAST TWO EXTRA PEOPLE, ATTACH B01 BEAM TO P02 AND P03 POST.
- ALIGN SLOTS IN BEAM WITH THREADED INSERTS ON POST PLATE. FLUSH ALL SIDES OF BEAM AND POST.
- **HAND TIGHTEN ONLY.**



# STEP 8C - LEFT FRAME ASSEMBLY

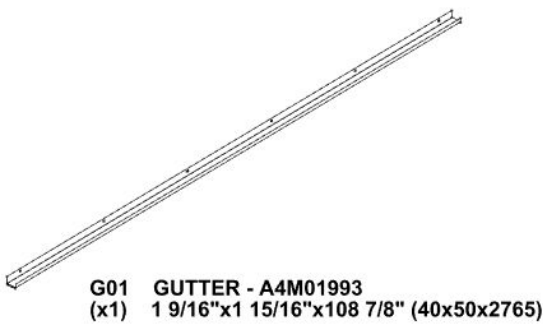
Qty	PartNo	Description
3	H101202	TORX PAN HEAD 1/4-20x3/4 ASSY

- HAND TIGHTEN ONLY.

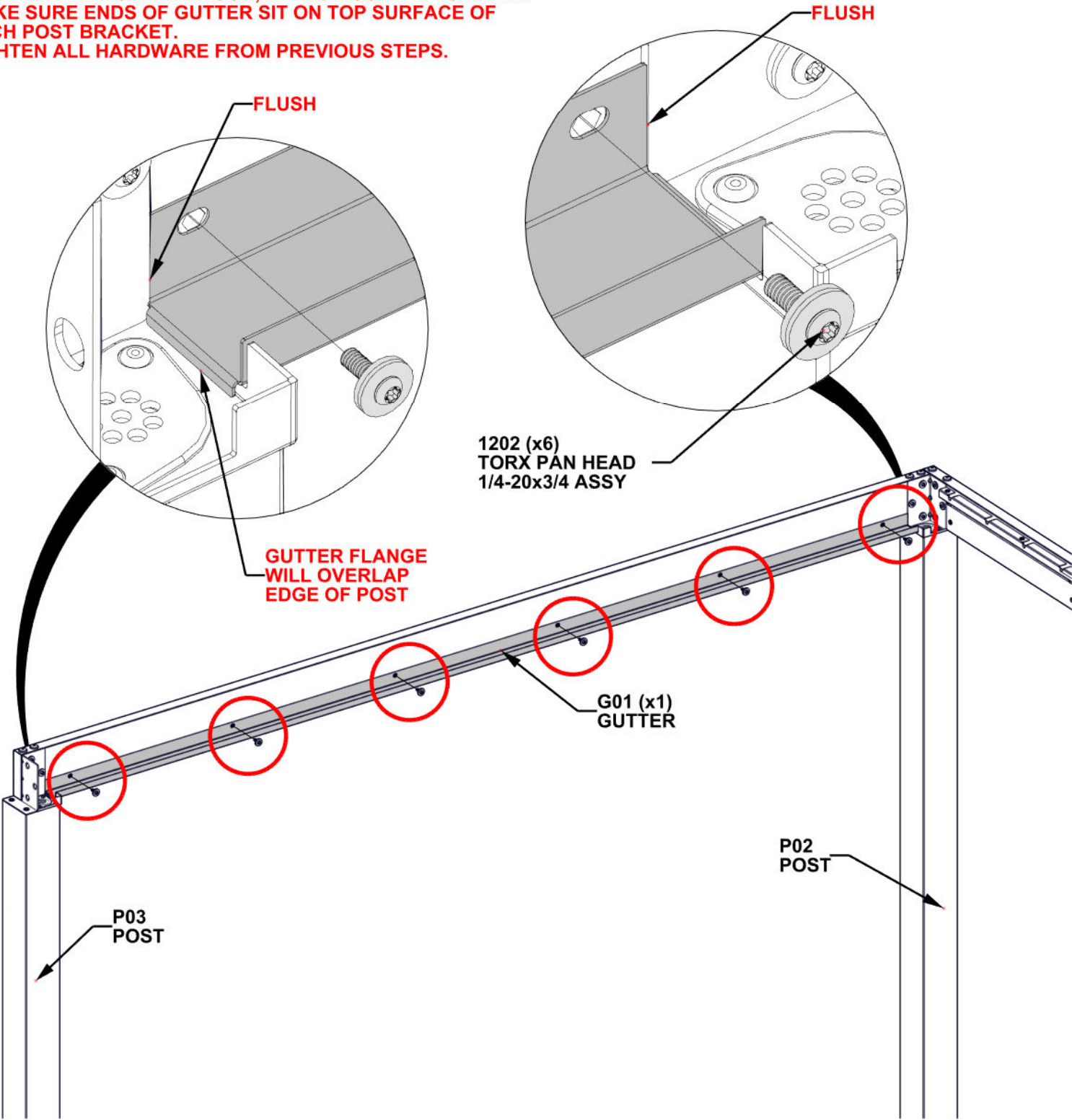


# STEP 9 - LEFT GUTTER ATTACHMENT

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

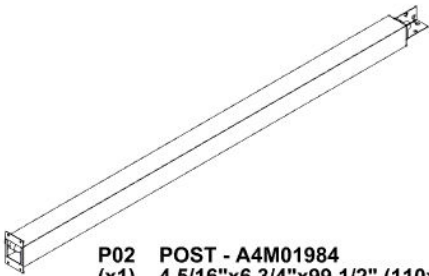


- WITH AN ADDITIONAL PERSON, ATTACH GUTTER TO BEAM.
- MAKE SURE ENDS OF GUTTER SIT ON TOP SURFACE OF EACH POST BRACKET.
- TIGHTEN ALL HARDWARE FROM PREVIOUS STEPS.



# STEP 10A - RIGHT FRAME ASSEMBLY

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

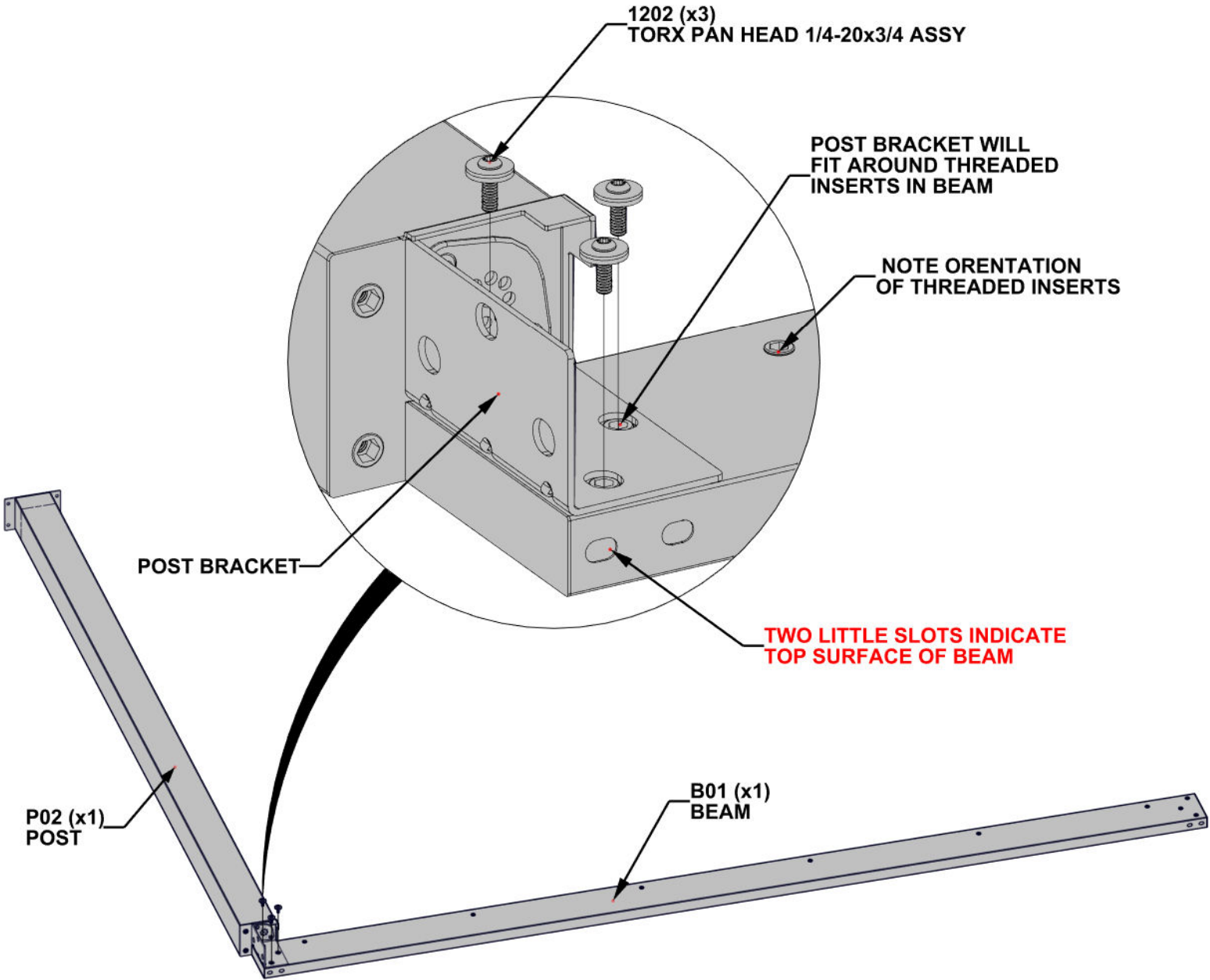


P02 POST - A4M01984  
(x1) 4 5/16"x6 3/4"x99 1/2" (110x172x2527)



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

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

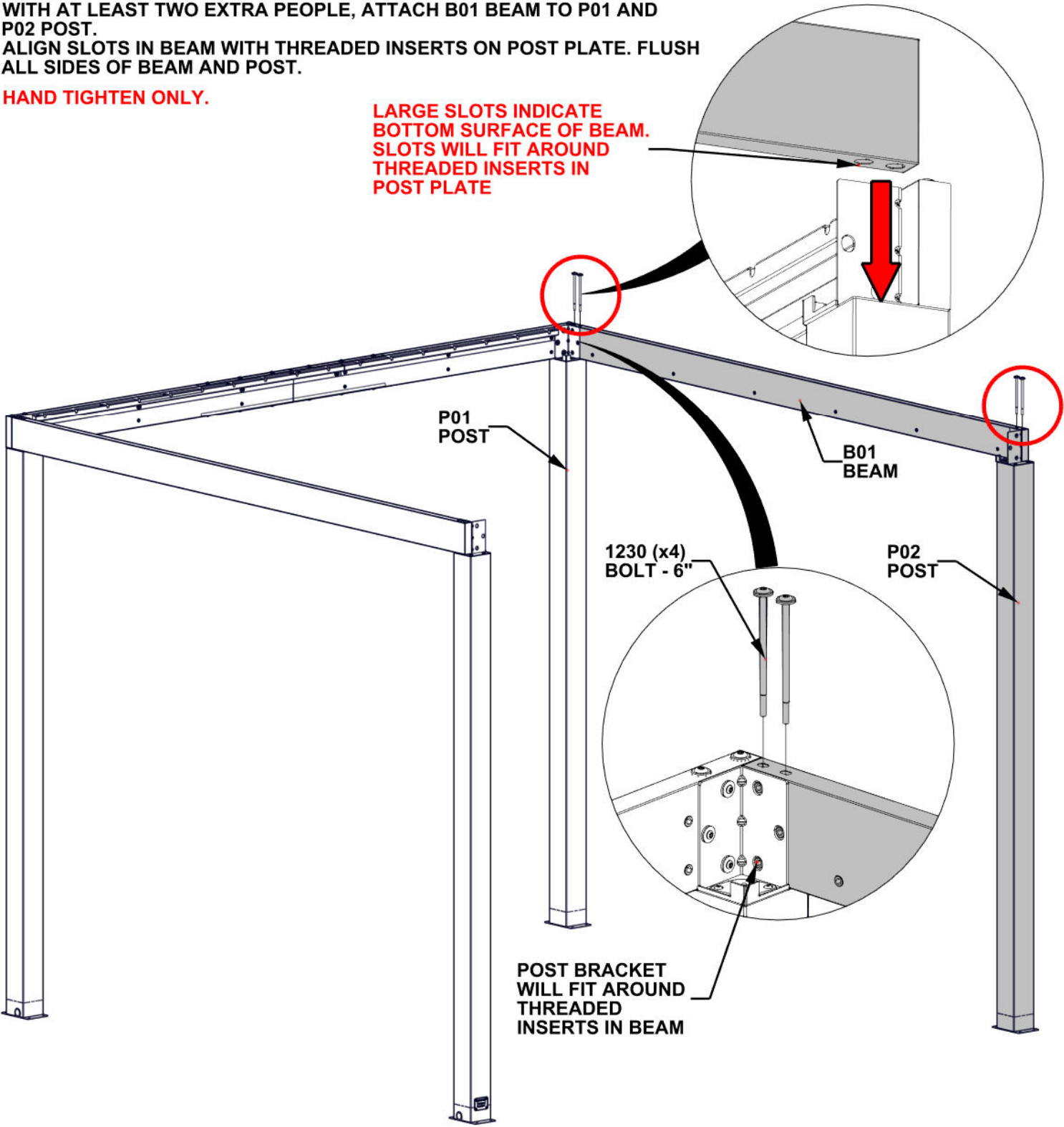


# STEP 10B - RIGHT FRAME ASSEMBLY

Qty	PartNo	Description
4	H101230	BOLT WH 5/16x6 S.S.

- WITH AT LEAST TWO EXTRA PEOPLE, ATTACH B01 BEAM TO P01 AND P02 POST.
- ALIGN SLOTS IN BEAM WITH THREADED INSERTS ON POST PLATE. FLUSH ALL SIDES OF BEAM AND POST.
- **HAND TIGHTEN ONLY.**

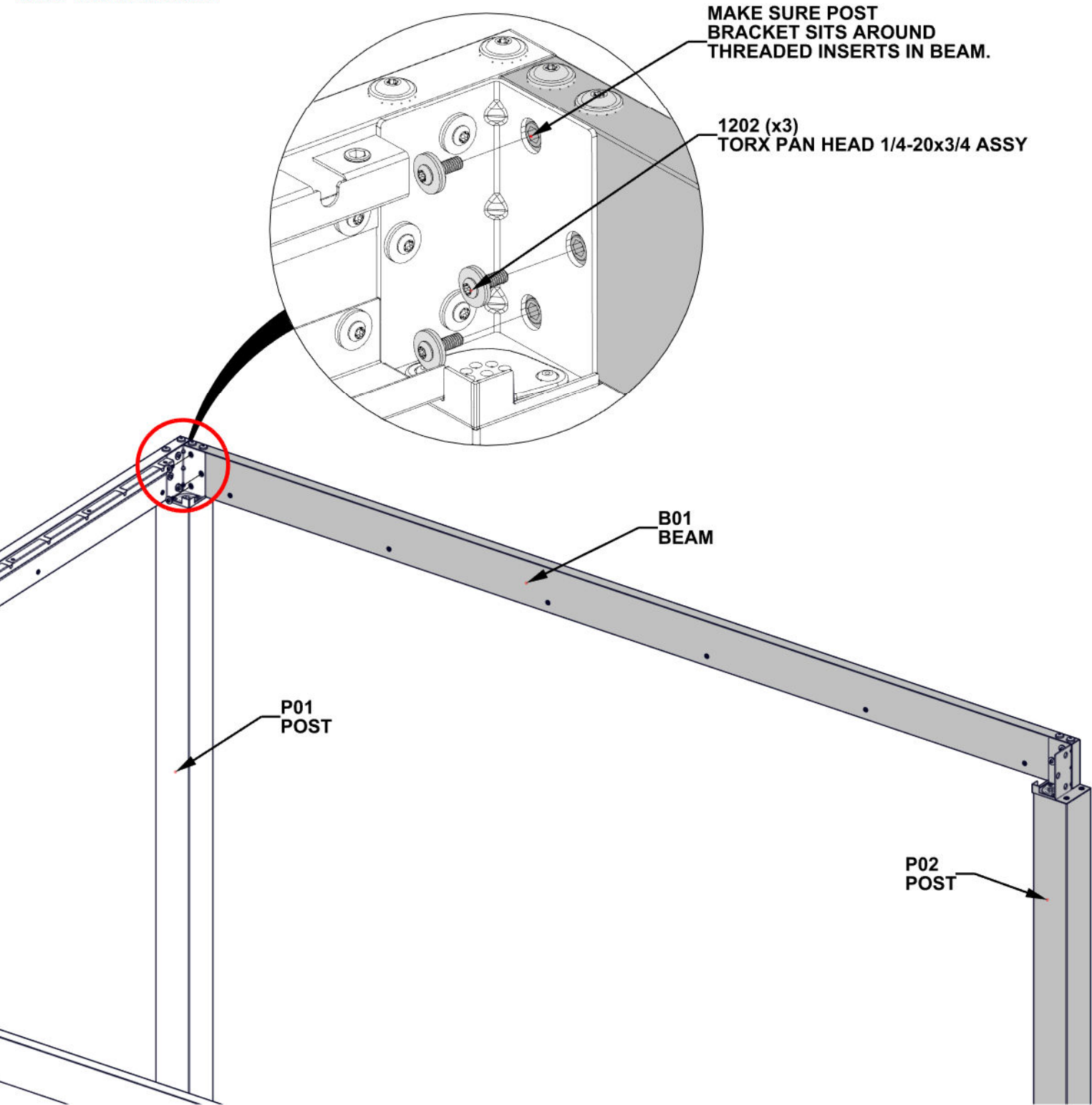
LARGE SLOTS INDICATE  
BOTTOM SURFACE OF BEAM.  
SLOTS WILL FIT AROUND  
THREADED INSERTS IN  
POST PLATE



# STEP 10C - RIGHT FRAME ASSEMBLY

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

- HAND TIGHTEN ONLY.



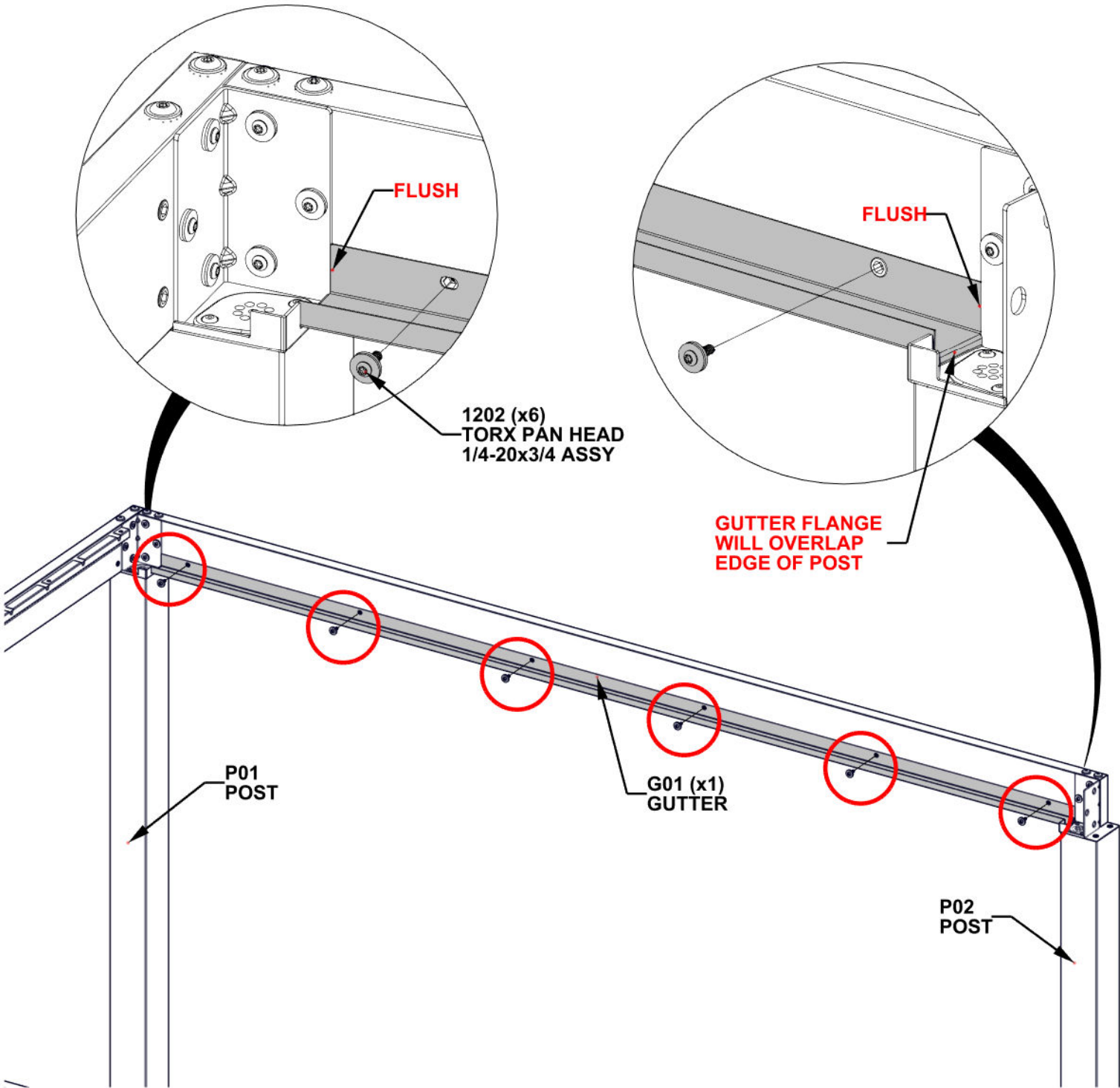
# STEP 11 - RIGHT GUTTER ATTACHMENT

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



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

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



# STEP 12 - FRONT BEAM ASSEMBLY

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

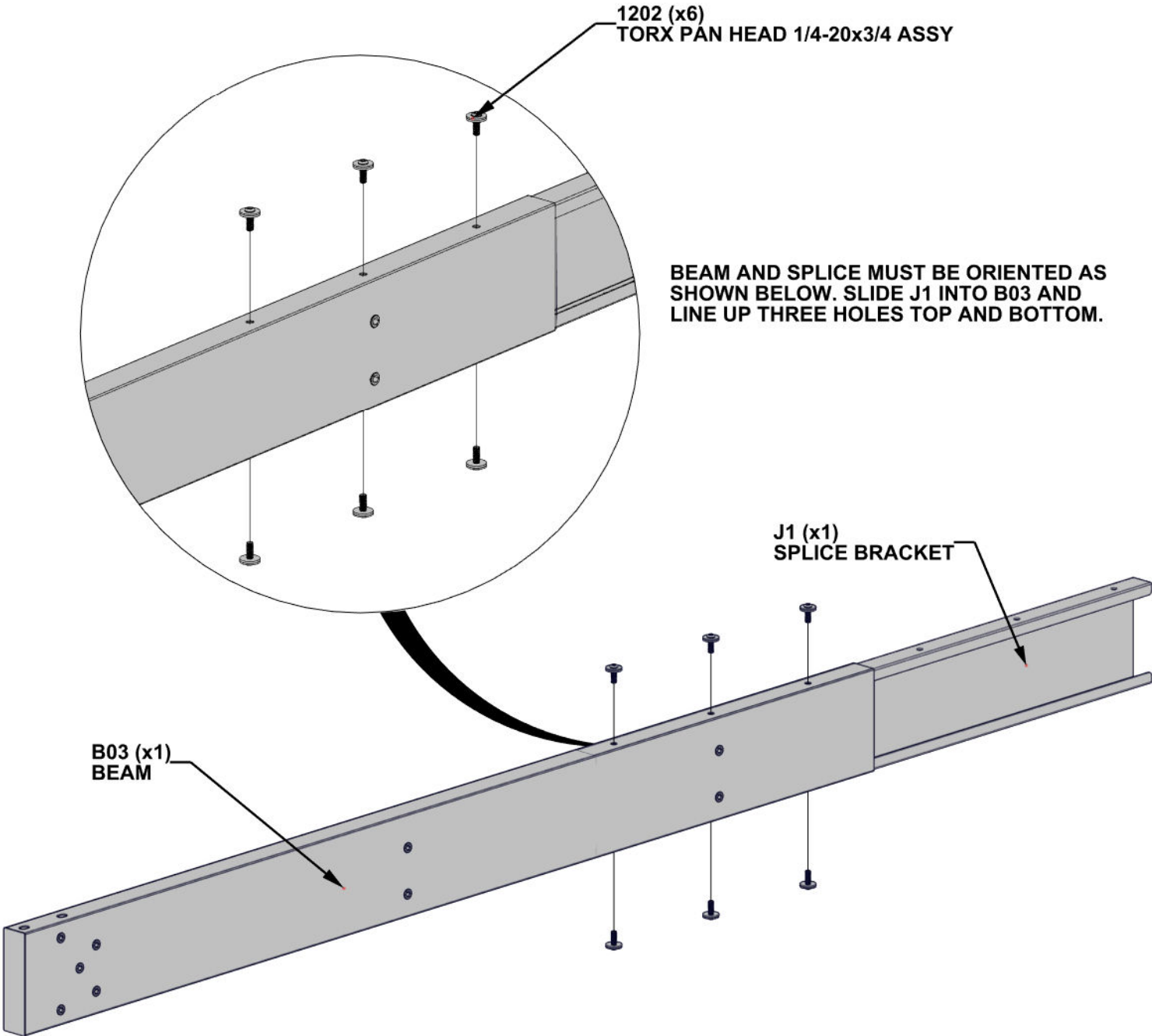


B03 BEAM - A4M04123  
(x1) 1 7/16"x5 1/4"x60 1/8" (36x134x1527)



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

- HAND TIGHTEN ONLY.



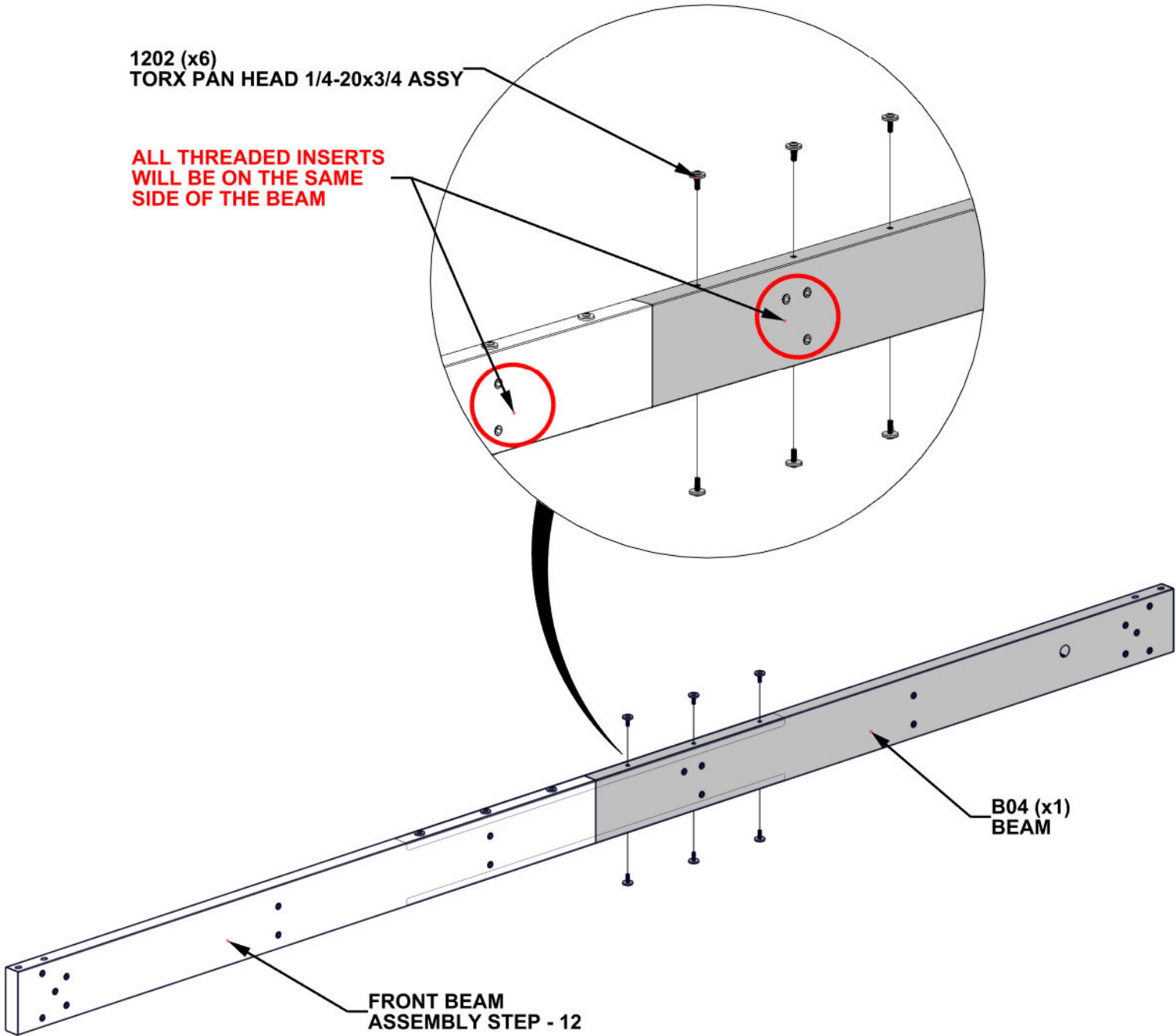
# STEP 13 - FRONT BEAM ASSEMBLY

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



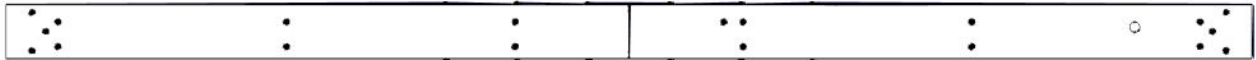
B04 BEAM - A4M04528  
(x1) 1 7/16"x5 1/4"x60 1/8" (36x134x1527)

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



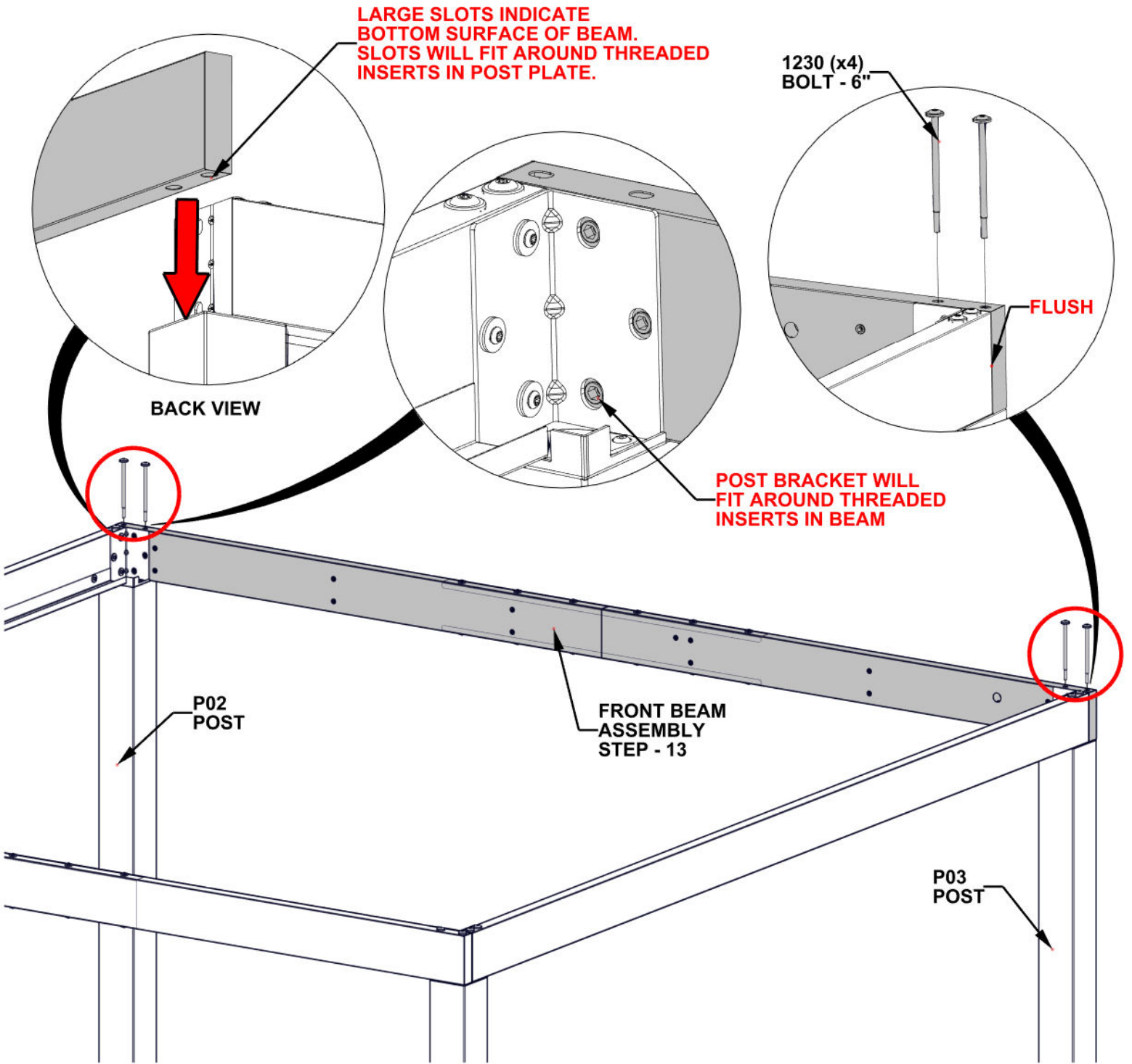
# STEP 14A - FRAME ASSEMBLY

Qty	PartNo	Description
4	H101230	BOLT WH 5/16x6 S.S.



FRONT BEAM ASSEMBLY  
STEP - 13

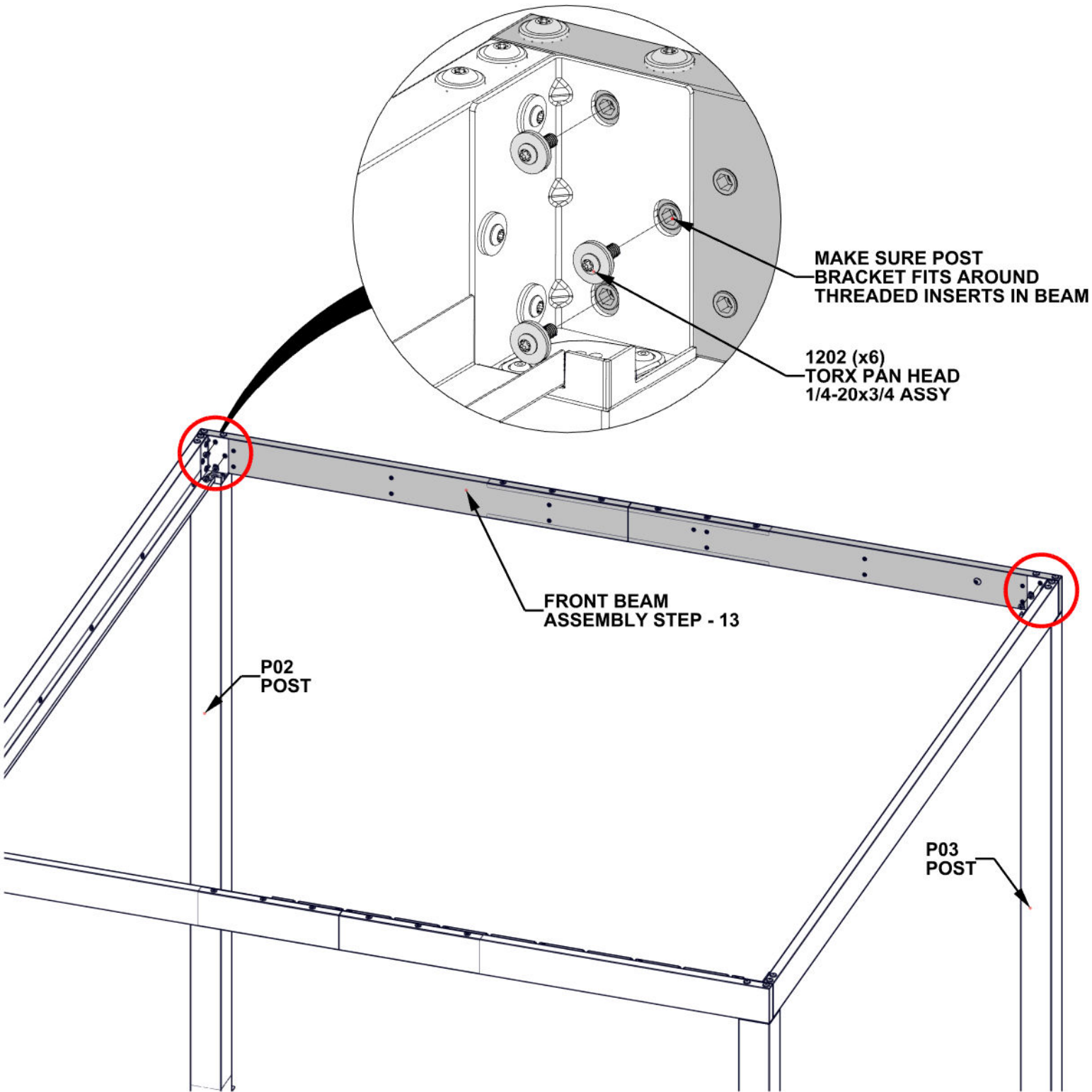
- WITH AT LEAST TWO EXTRA PEOPLE, ATTACH BEAM ASSEMBLY FROM PREVIOUS STEPS TO P02 AND P03 POST.
- ALIGN SLOTS IN BEAM WITH THREADED INSERTS ON TOP PLATE. FLUSH ALL SIDES OF BEAM AND POST.
- HAND TIGHTEN ONLY.



# STEP 14B - FRAME ASSEMBLY

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

- TIGHTEN ALL HARDWARE FROM PREVIOUS STEPS.

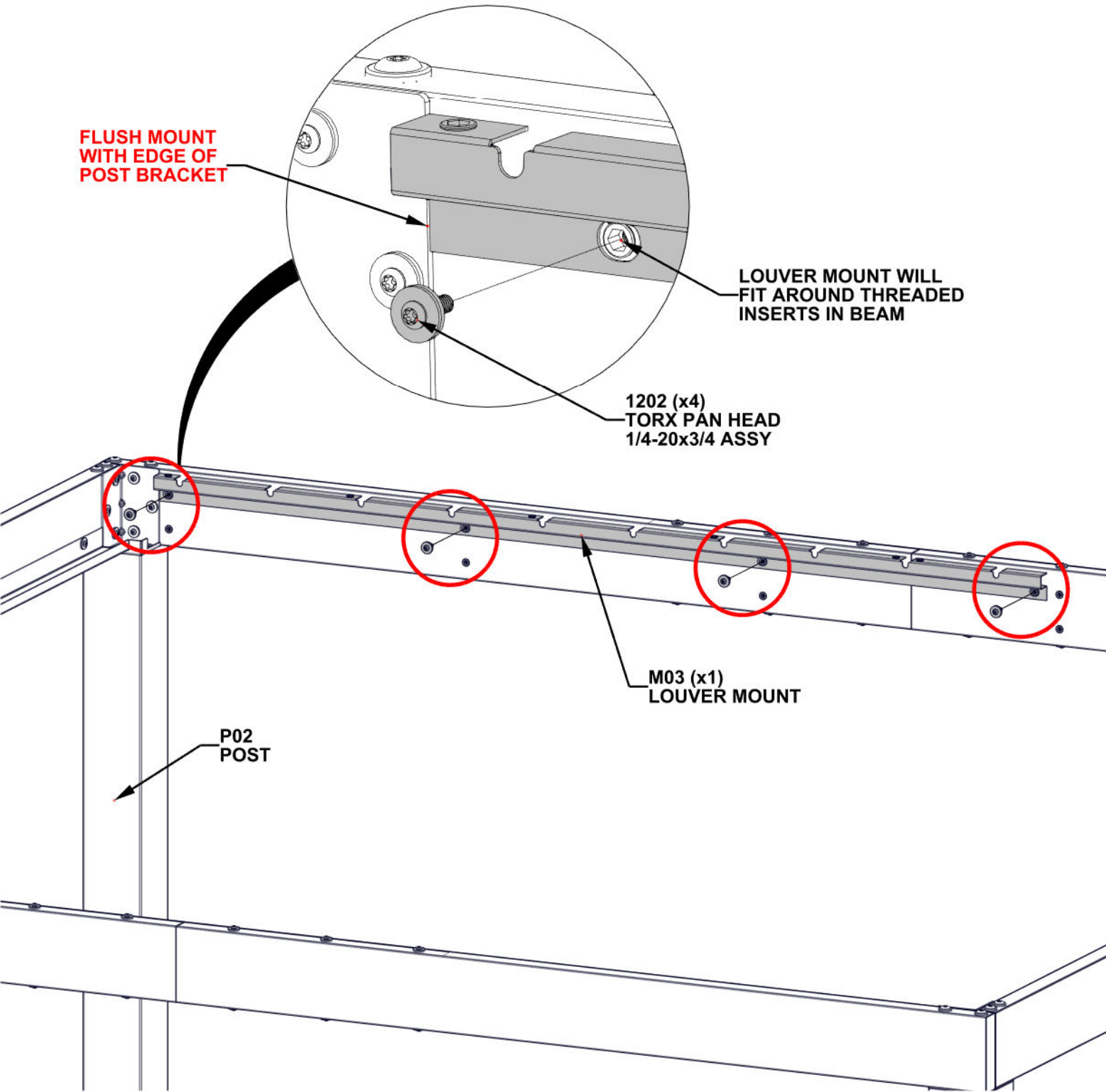


# STEP 15 - LOUVER MOUNT ATTACHMENT

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



M03 LOUVER MOUNT - A4M04532  
(x1) 1"x1 15/16"x65 13/16" (25x48.5x1672)



FLUSH MOUNT  
WITH EDGE OF  
POST BRACKET

LOUVER MOUNT WILL  
FIT AROUND THREADED  
INSERTS IN BEAM

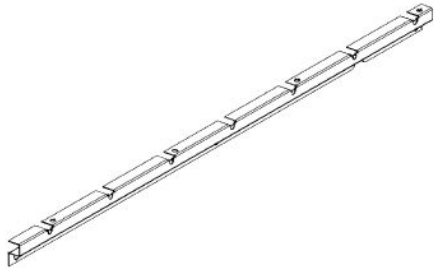
1202 (x4)  
TORX PAN HEAD  
1/4-20x3/4 ASSY

M03 (x1)  
LOUVER MOUNT

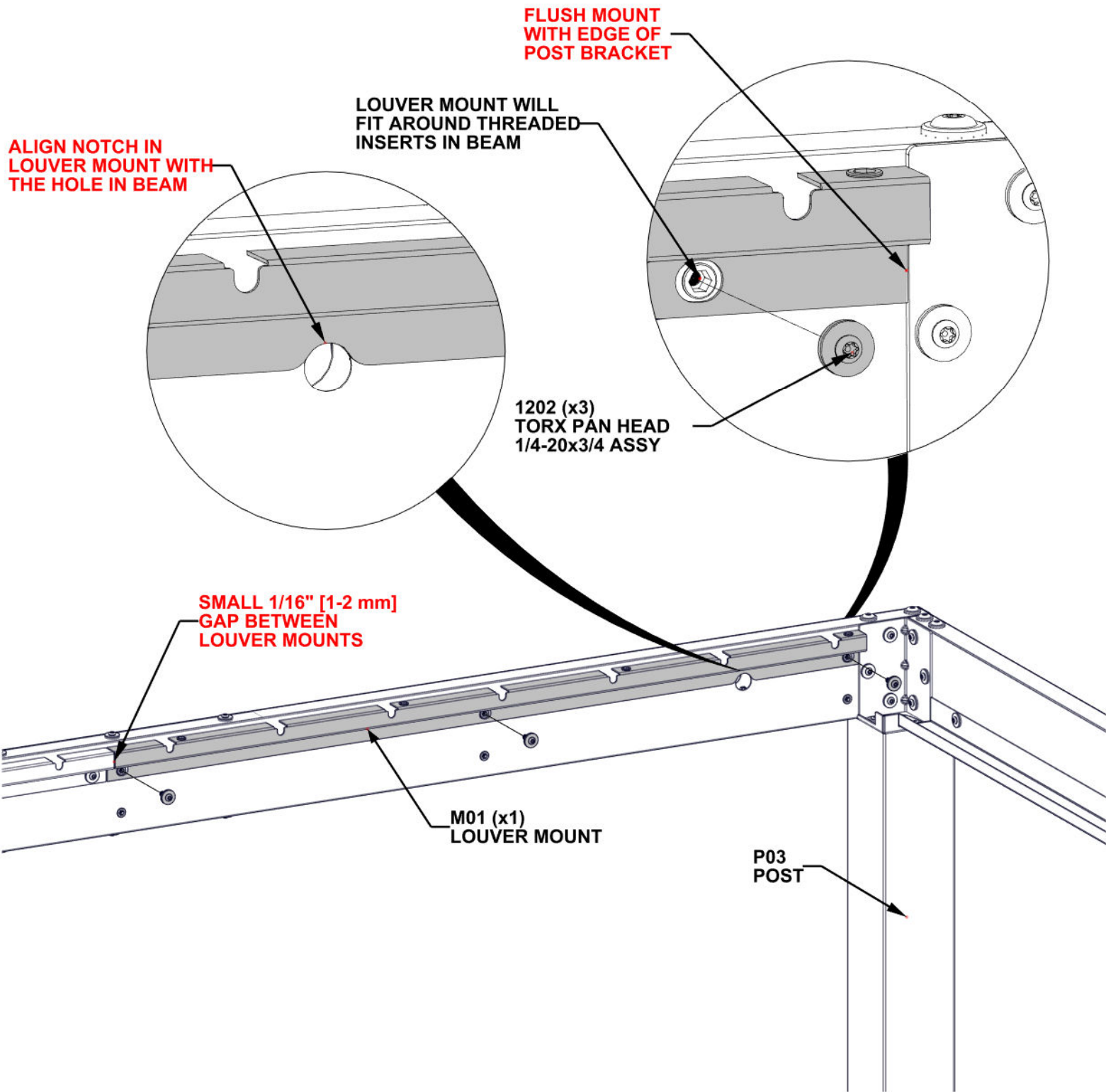
P02  
POST

# STEP 16 - LOUVER MOUNT ATTACHMENT

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

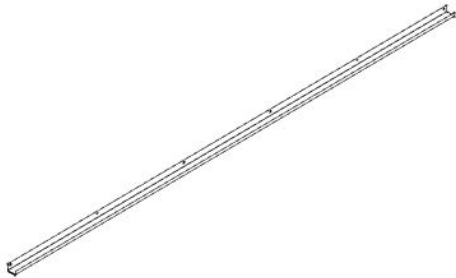


M01 LOUVER MOUNT - A4M04530  
(x1) 1"x1 15/16"x45 5/8" (25x49x1159)



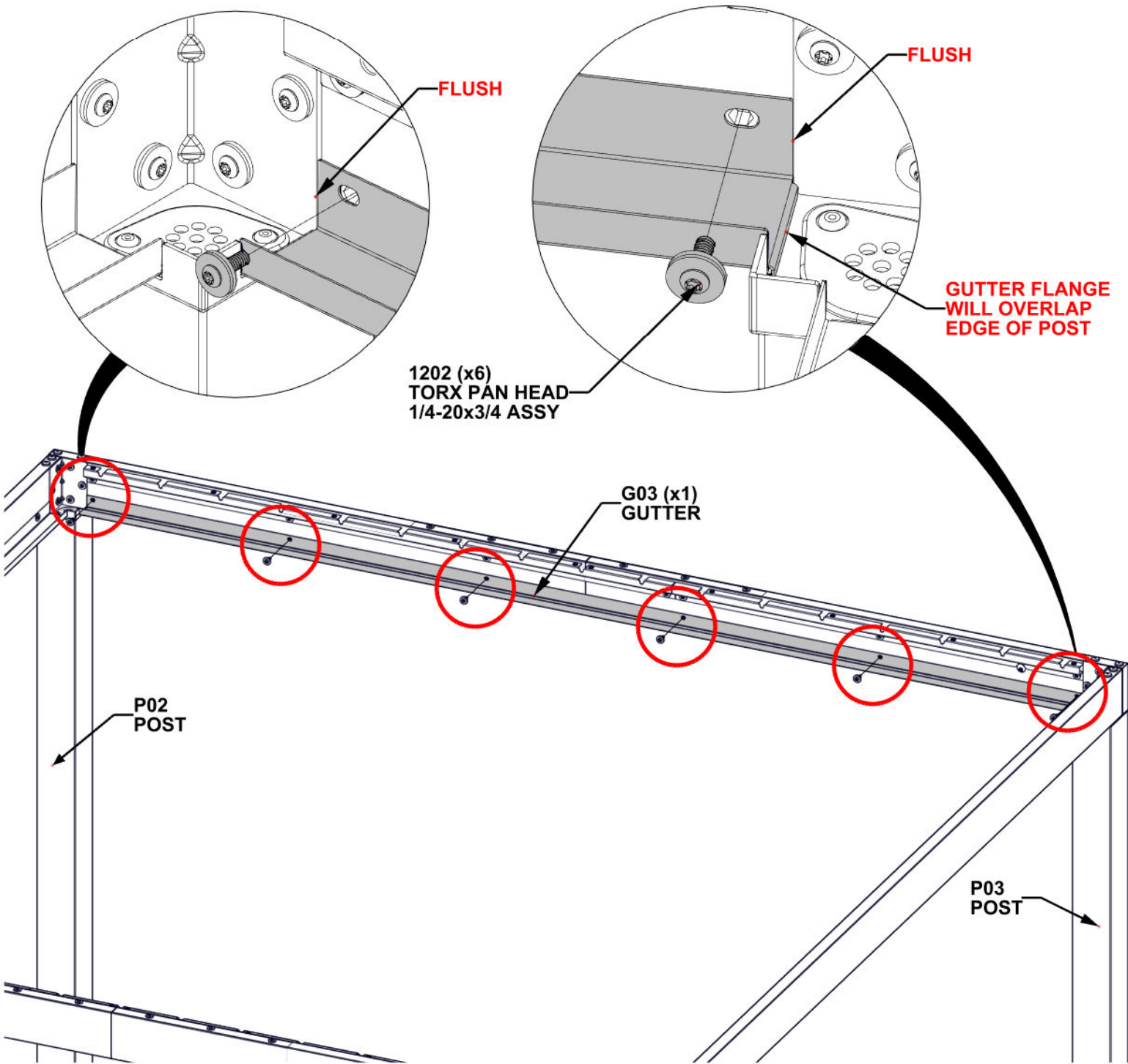
# STEP 17 - GUTTER ATTACHMENT

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



G03 GUTTER - A4M04120  
(x1) 1 9/16"x1 15/16"x11 11/16" (40x50x2837)

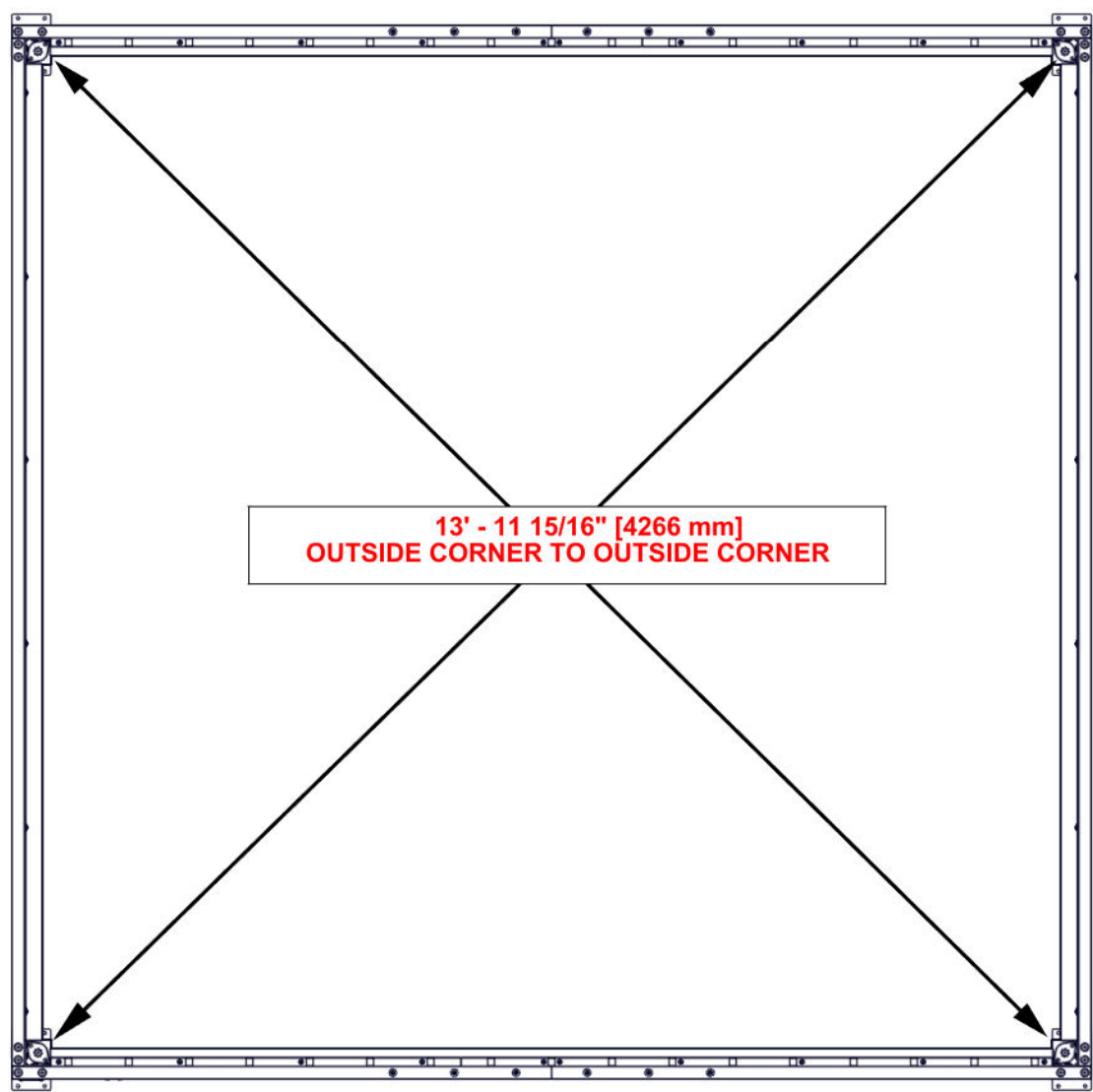
- WITH AN ADDITIONAL PERSON, ATTACH GUTTER TO BEAM.
- MAKE SURE ENDS OF GUTTER SIT ON TOP SURFACE OF EACH POST BRACKET.
- TIGHTEN ALL HARDWARE.



# STEP 18A - SQUARE STRUCTURE

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

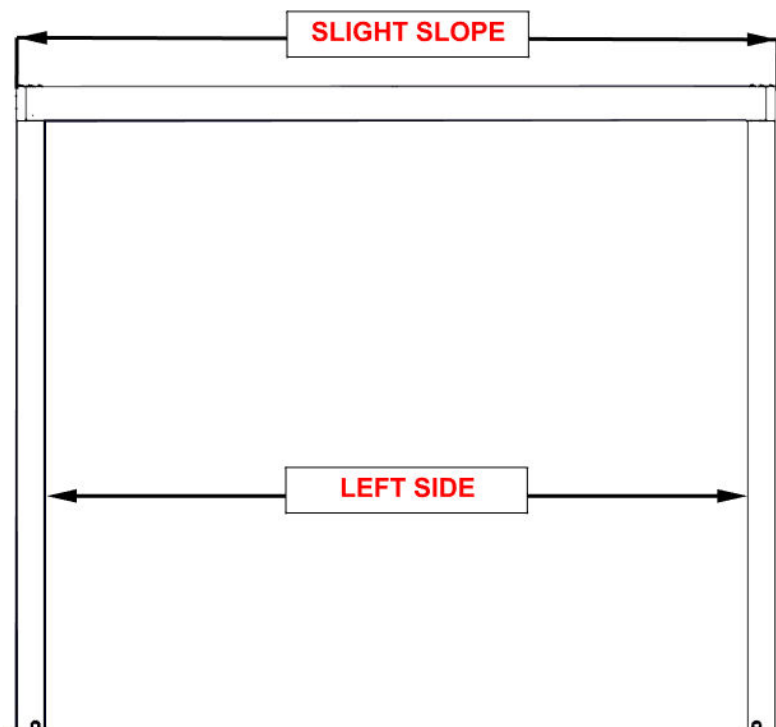
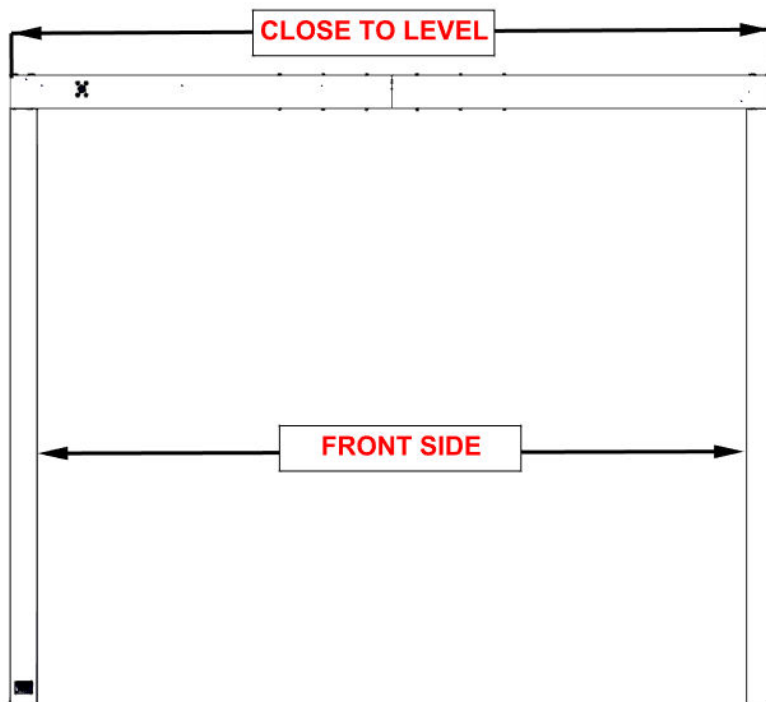
**MEASUREMENTS TAKEN FROM OUTSIDE CORNER TO OUTSIDE CORNER OF STRUCTURE**



## STEP 18B - SQUARE ASSEMBLY

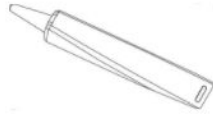
### CRITICAL:

- FOR YOUR PERGOLA TO DRAIN PROPERLY, THERE MUST BE A SLIGHT SLOPE ON THE SIDES RUNNING THE LENGTH OF THE LOUVER BLADES.
- IT IS RECOMMENDED THAT THE FRONT AND BACK SIDES ARE LEVEL OR CLOSE TO LEVEL.
- PLACE A LEVEL ON THE FRONT AND BACK BEAMS TO CONFIRM THE FRONT AND BACK ARE CLOSE TO LEVEL.
- PLACE A LEVEL ON THE SIDES TO CONFIRM YOU HAVE A SLIGHT SLOPE IN ONE DIRECTION.



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

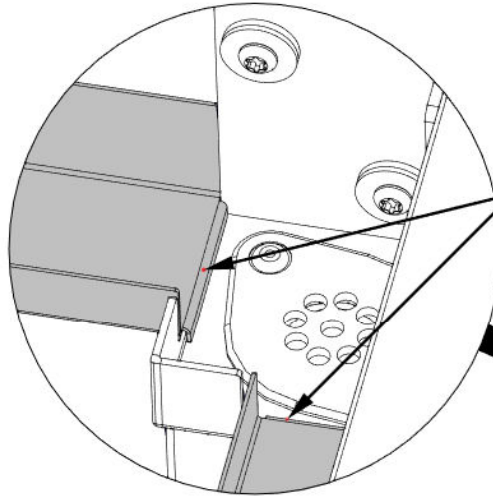
## STEP 19 - GUTTER SEALANT



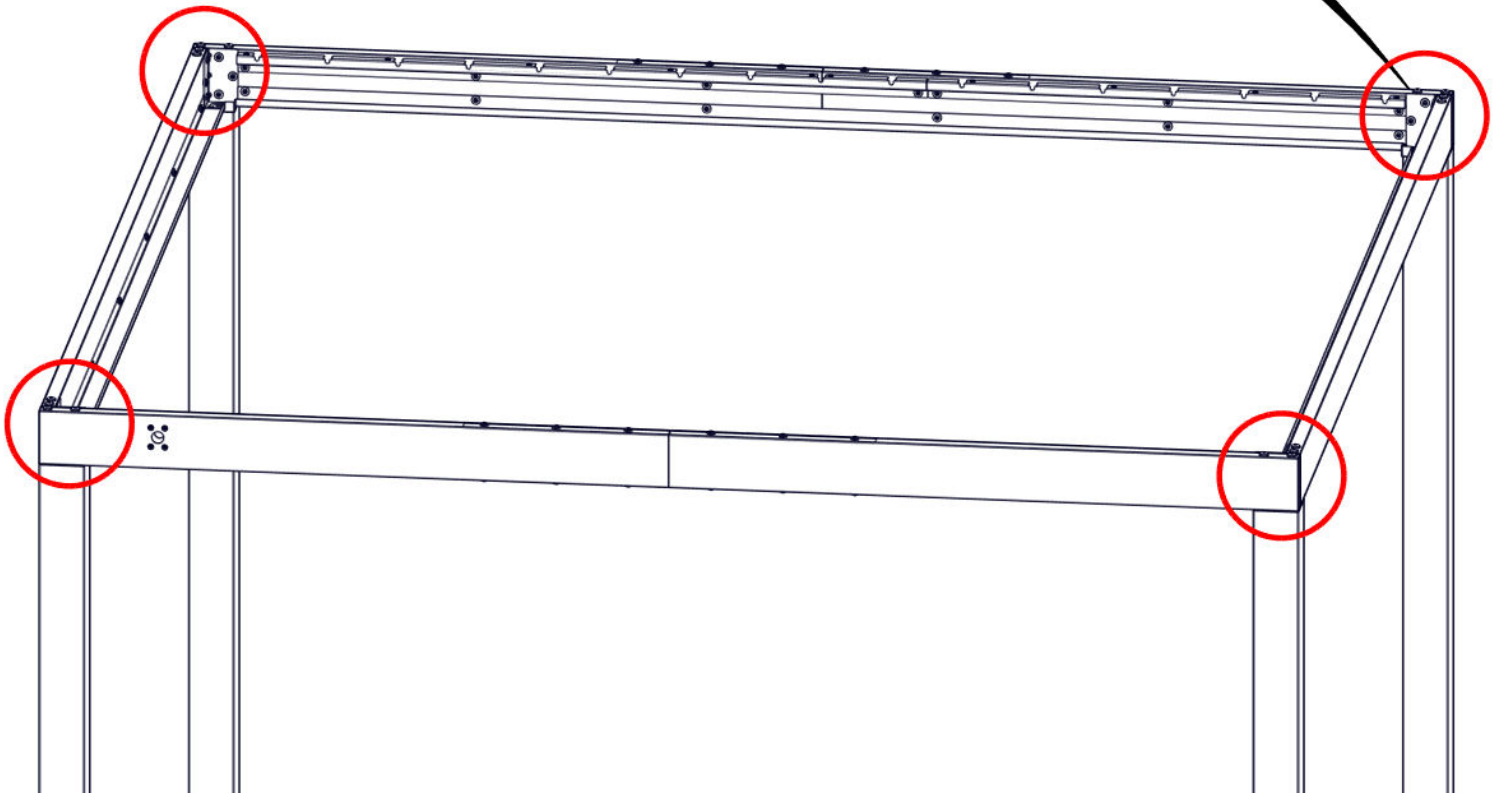
A6P00796 SILICONE  
(x1)

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

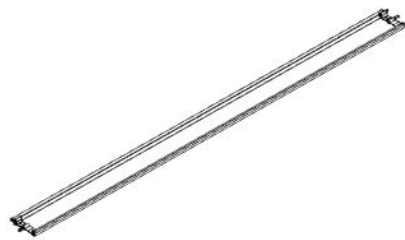


**APPLY A FINE BEAD OF  
SILICONE TO PREVENT  
WATER FROM LEAKING**



# 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)

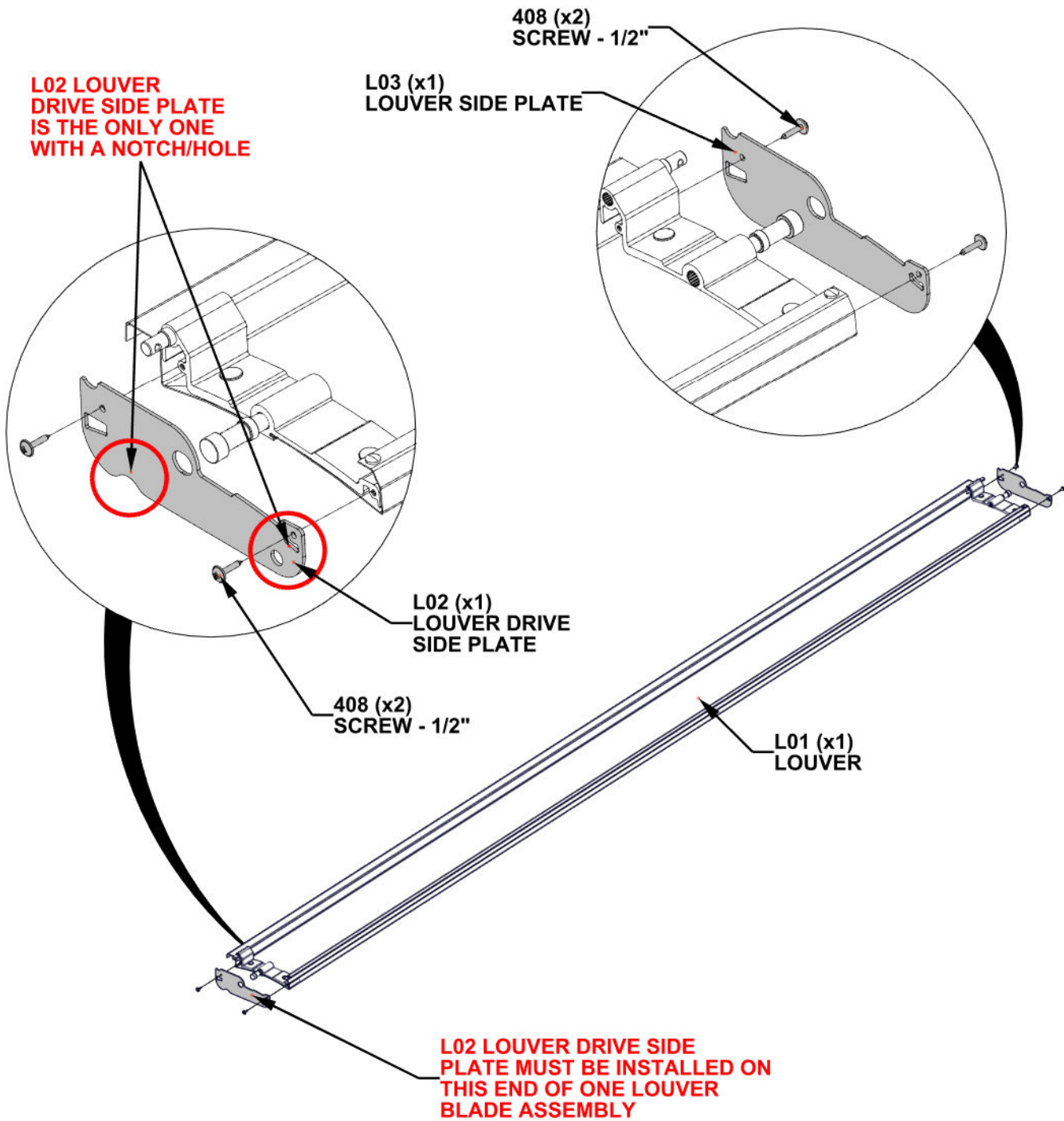


L02 LOUVER DRIVE SIDE PLATE - A4M04139  
(x1) 1/16"x2 3/16"x6 9/16" (2x55x167)

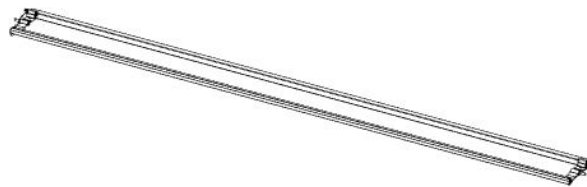


L03 LOUVER SIDE PLATE - A4M04138  
(x1) 1/16"x2 3/16"x6 9/16" (2x55x167)

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



## STEP 21 - DRIVE LOUVER INSTALLATION



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. L02 DRIVE PLATE WILL BE ON SAME SIDE AS FOUR THREADED INSERTS IN BEAM.

PLACE DRIVE LOUVER  
ASSEMBLY IN THE  
SECOND SET OF LOUVER  
MOUNT GROOVES

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

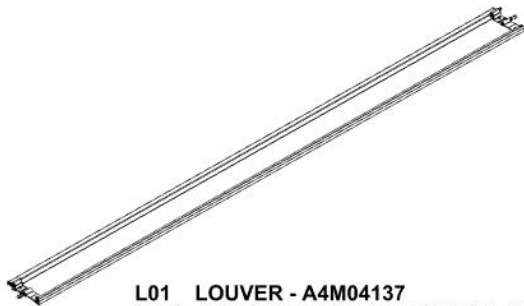
DRIVE LOUVER  
ASSEMBLY  
STEP - 20

DRIVE LOUVER  
ASSEMBLY  
STEP - 20

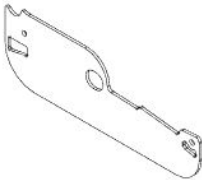
FRONT

# STEP 22 - LOUVER ASSEMBLY

Qty	PartNo	Description
64	H100408	SCREW PWH 8x1/2 BLK



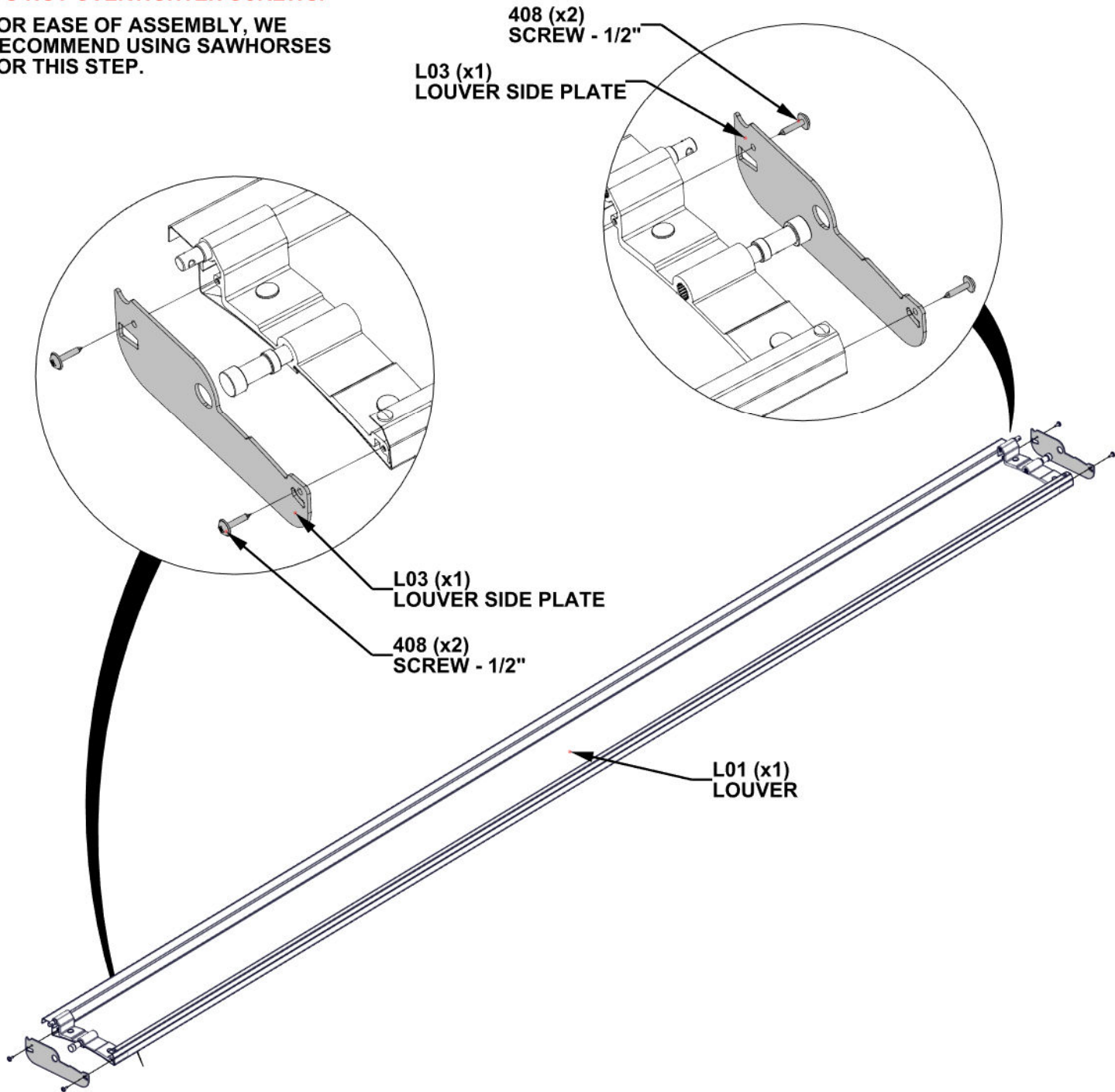
L01 LOUVER - A4M04137  
(x16) 1 11/16"x7 3/4"x114 5/16" (42x196.2x2904)



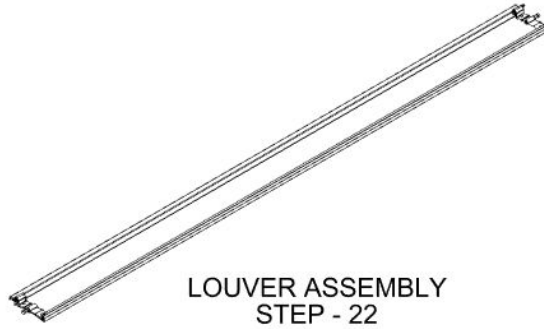
L03 LOUVER SIDE PLATE - A4M04138  
(x32) 1/16"x2 3/16"x6 9/16" (2x55x167)

- REPEAT THIS STEP 16 TIMES.  
- DO NOT OVERTIGHTEN SCREWS.

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

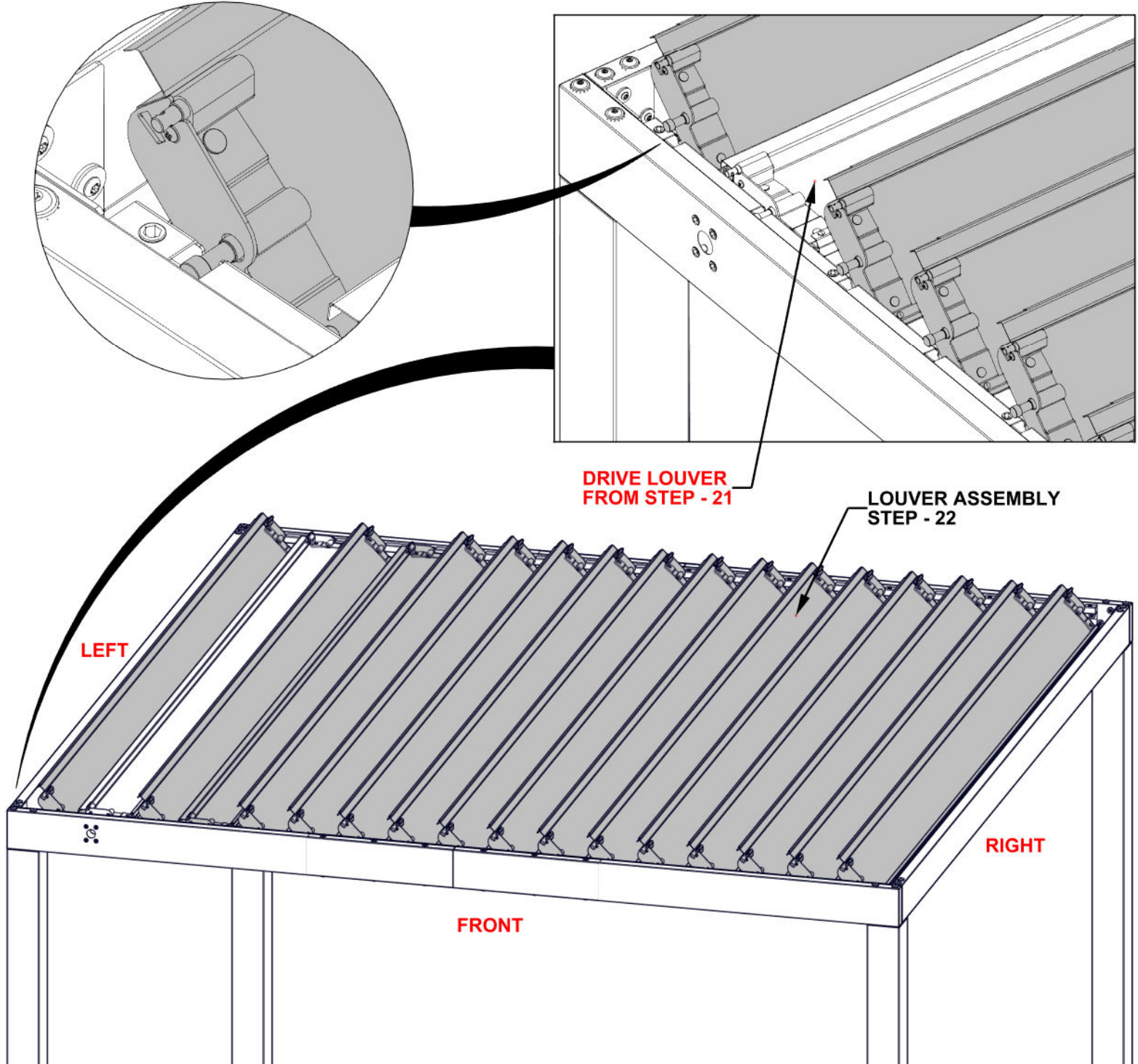


## STEP 23 - LOUVER INSTALLATION



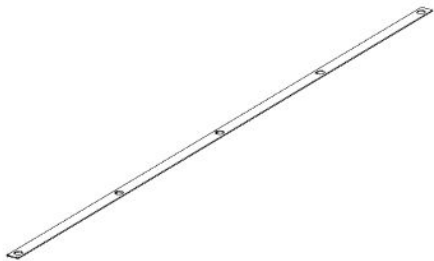
- STARTING AT THE LEFT AND WORKING TO THE RIGHT, CAREFULLY SET EACH LOUVER ASSEMBLY ONE AT A TIME INTO LOUVER MOUNTS AT EACH END.

- MAKE SURE ALL LOUVER BLADE ASSEMBLIES ARE ORIENTED IN THE SAME DIRECTION.



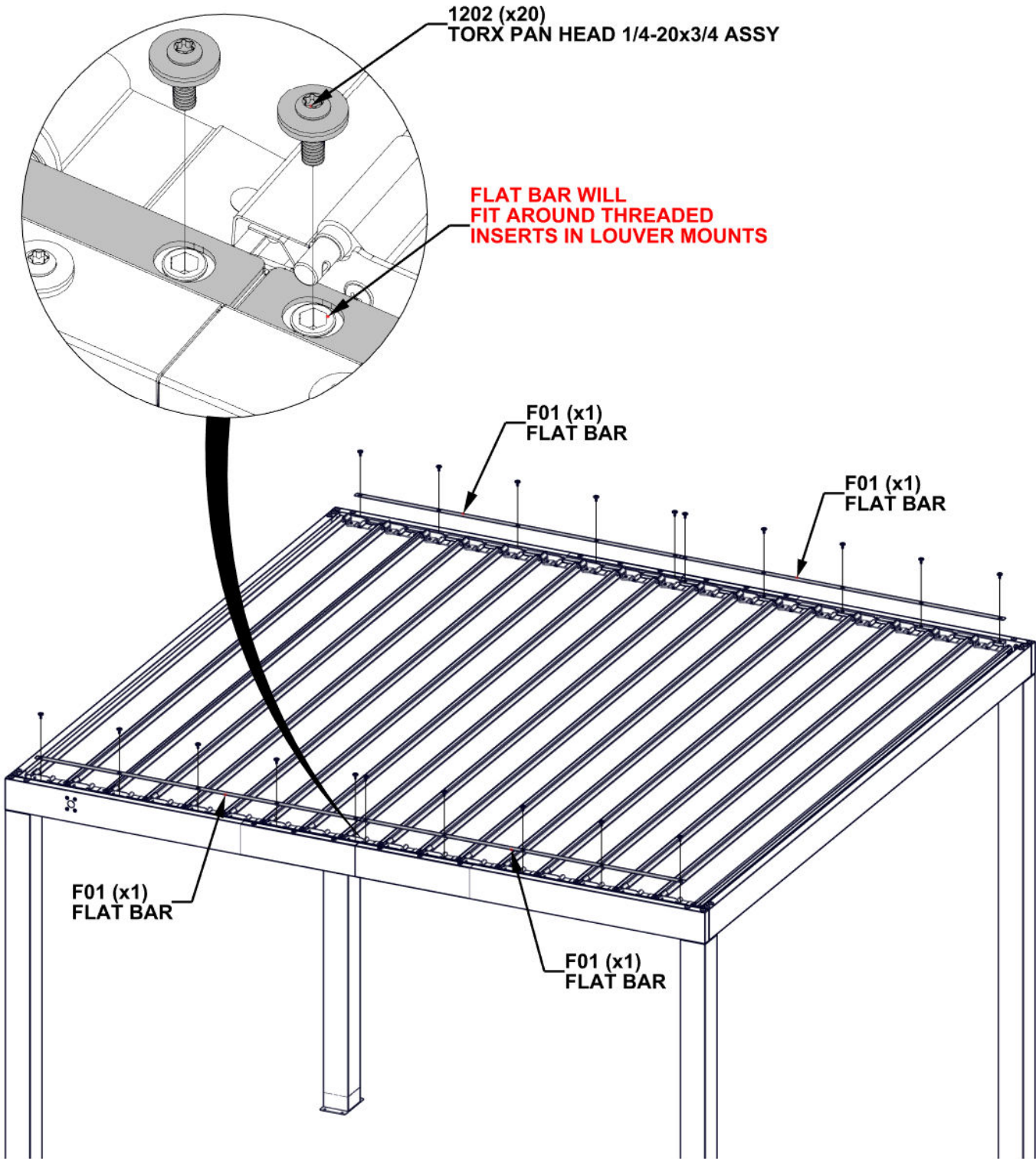
# STEP 24 - LOUVER INSTALLATION

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

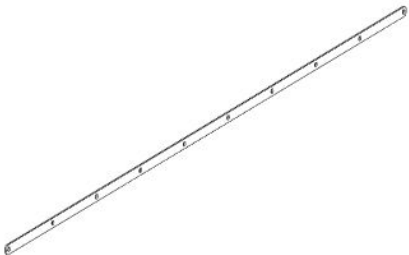


F01 FLAT BAR - A4M04122  
(x4) 1/16"x1"x55 3/4" (2x25x1416)

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

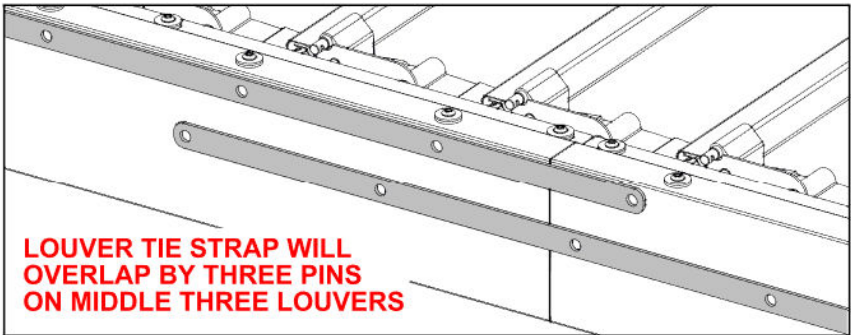


# STEP 25A - LOUVER INSTALLATION

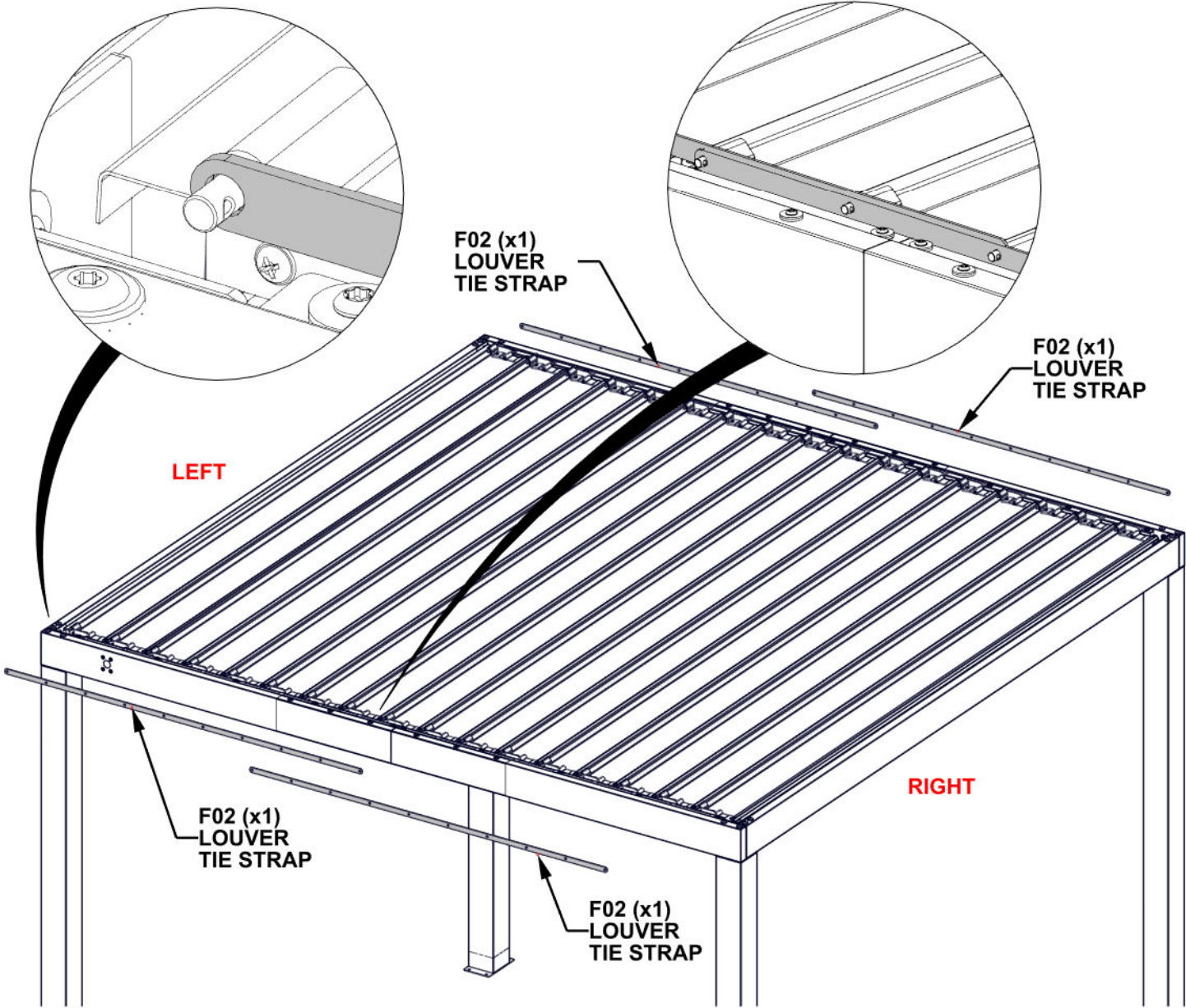


F02 LOUVER TIE STRAP - A4M04121  
(x4) 1/8"x13/16"x61 3/8" (3x20x1559)

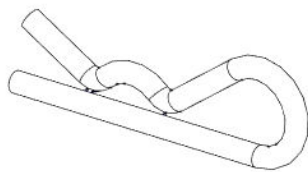
- LOUVER TIE STRAPS WILL CONNECT ALL LOUVERS TO ONE ANOTHER.
- STARTING ON THE LEFT AND WORKING TO THE RIGHT, CONNECT LOUVERS USING TIE STRAPS. OVERLAP TIE STRAPS TO HOLD MIDDLE LOUVERS TOGETHER.



LOUVER TIE STRAP WILL OVERLAP BY THREE PINS ON MIDDLE THREE LOUVERS

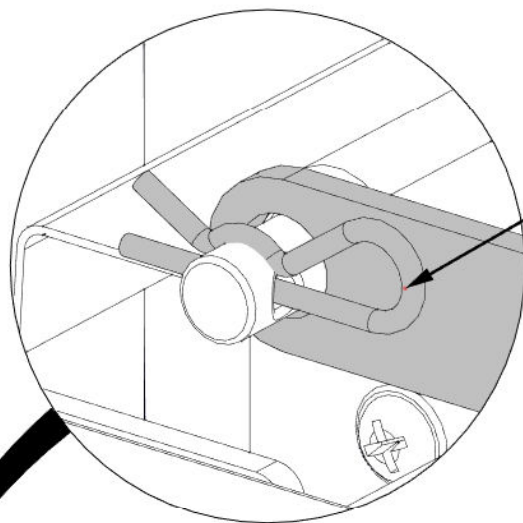


## STEP 25B - LOUVER INSTALLATION

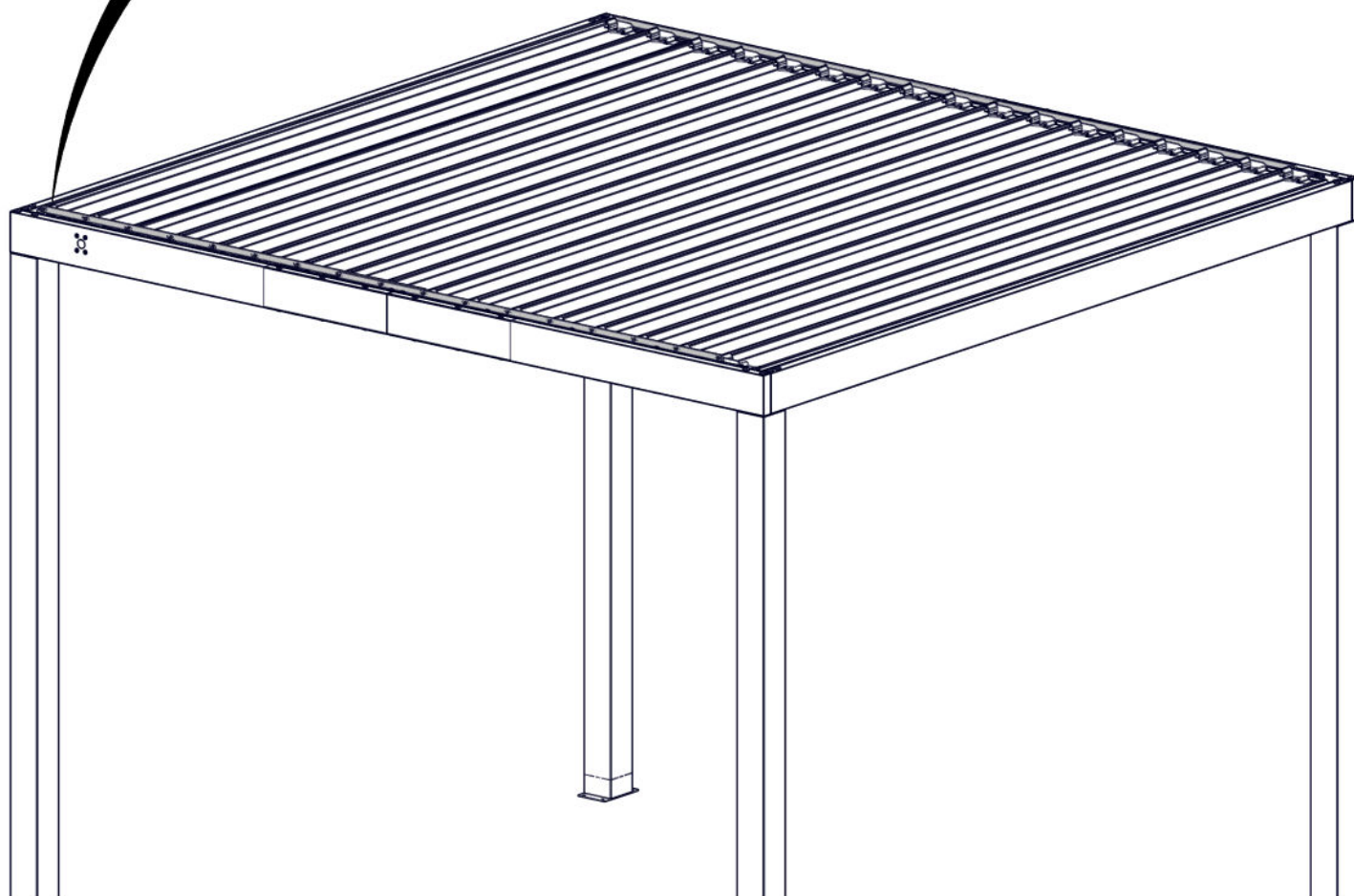


H101161 COTTER PIN  
(x34)

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



1161 (x34)  
COTTER PIN



# STEP 26 - LOUVER MECHANISM

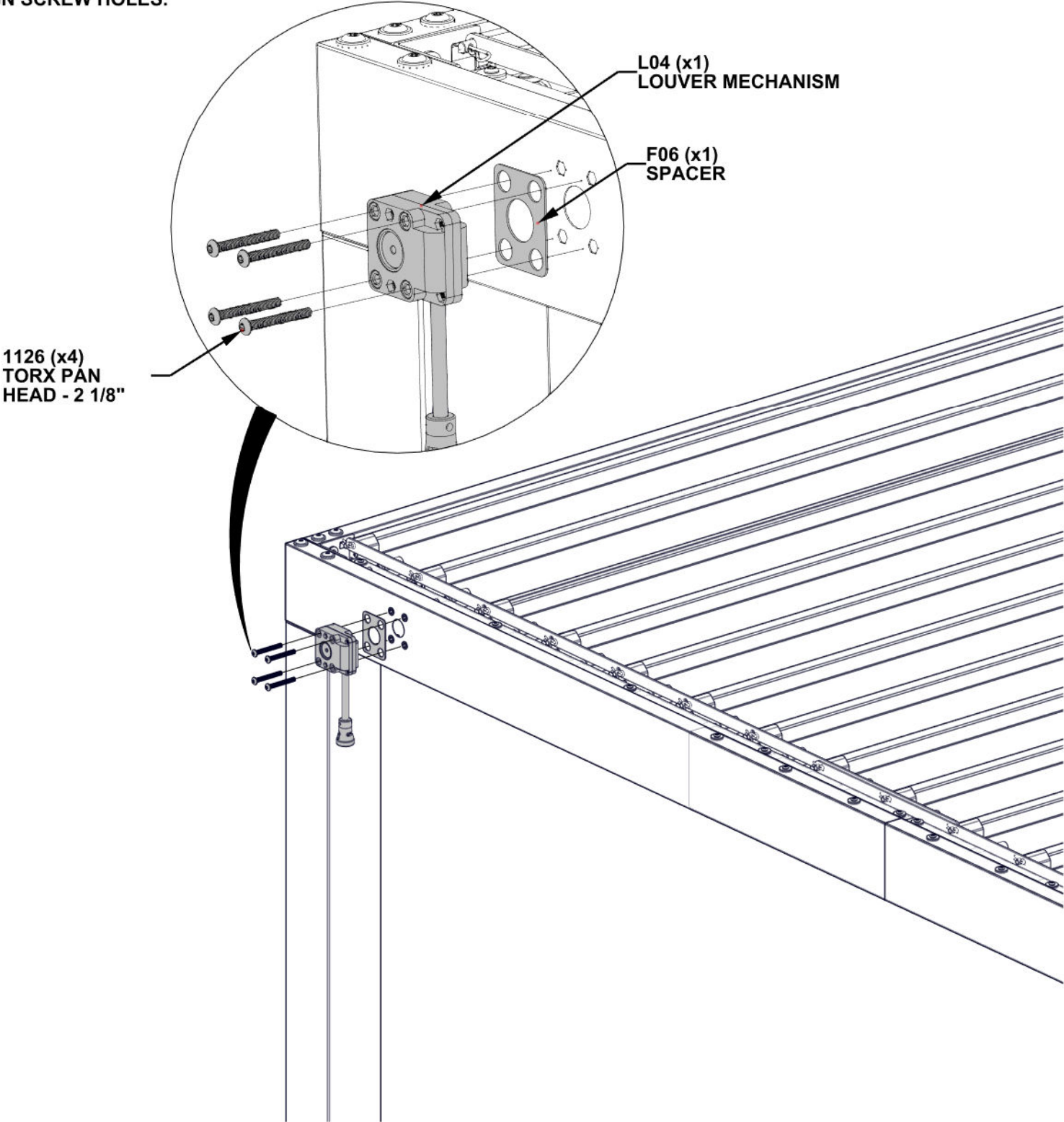
Qty	PartNo	Description
4	H101126	TORX PAN HEAD 1/4-20x2 1/8"



L04 LOUVER MECHANISM - A4M02132  
(x1) 11/16"x2 1/2"x2 7/8" (17x64x73)

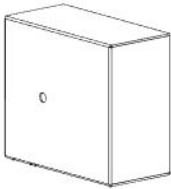
F06 SPACER - A4M02227  
(x1) 1/16"x2 3/16"x2 3/4" (1.5x56x70)

- ALIGN SCREW HOLES.

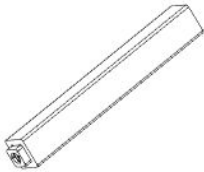


# STEP 27 - LOUVER MECHANISM

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

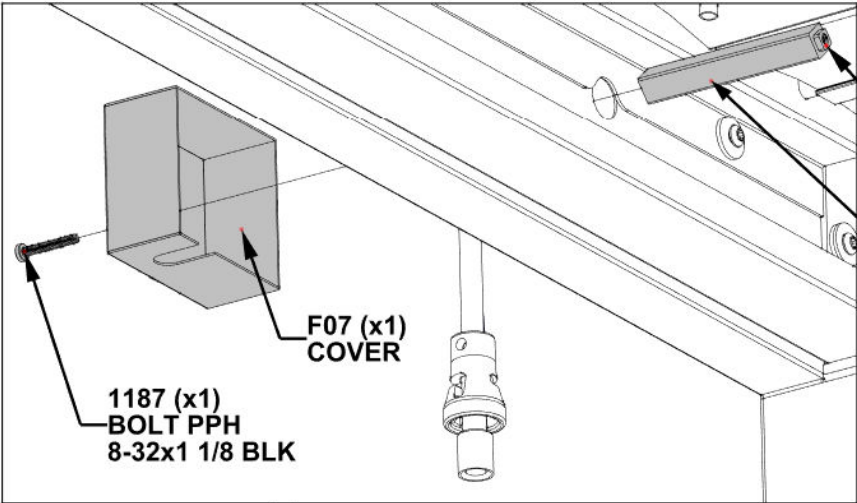


F07 COVER - A4M02228  
(x1) 1 9/16"x2 7/8"x3 1/4" (39.5x73x82)



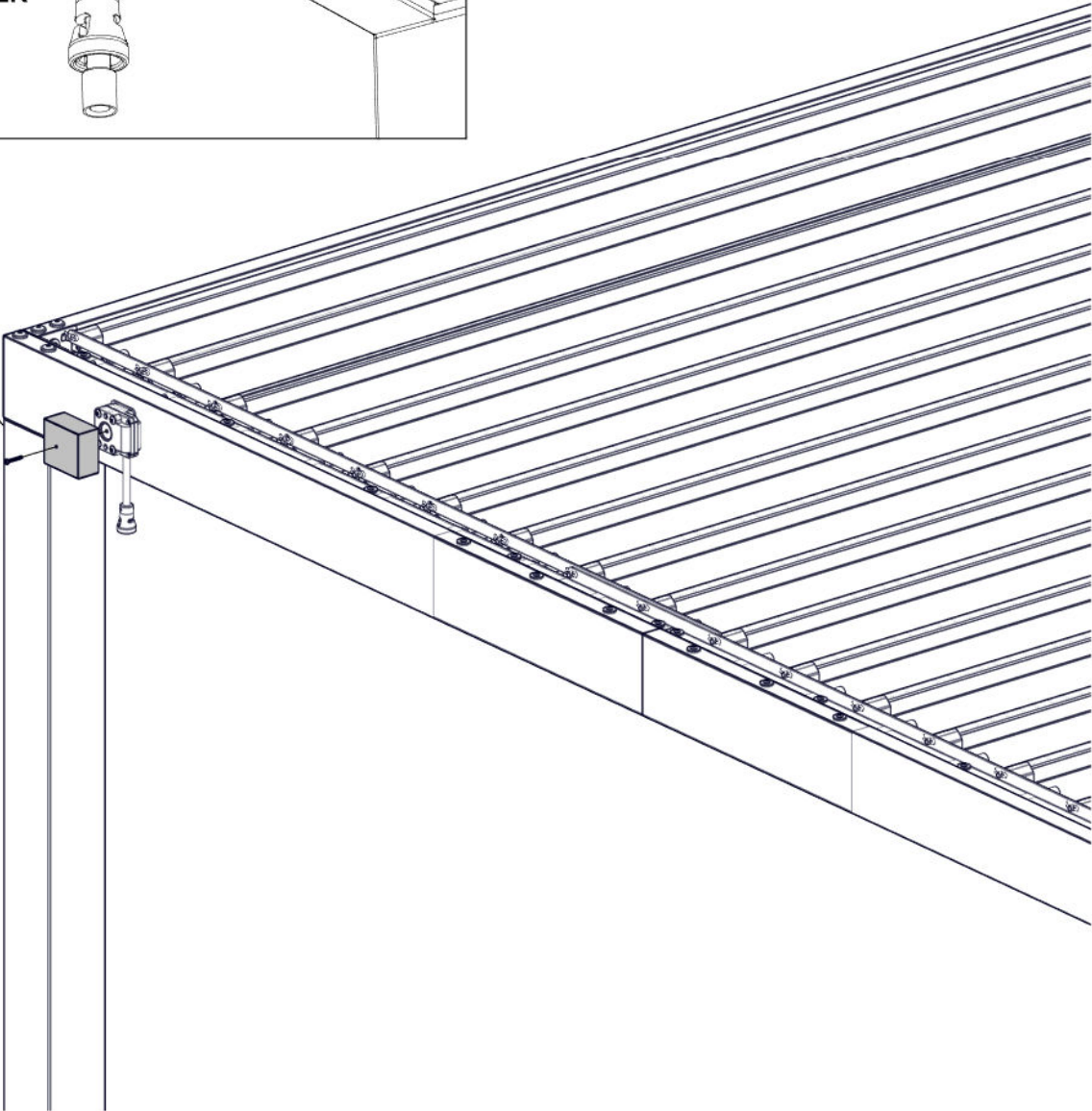
F05 LOUVER DRIVE AXLE - A4M02226  
(x1) 1/2"x1/2"x3 3/4" (13.0x13.0x95)

- ALIGN SCREW HOLES.



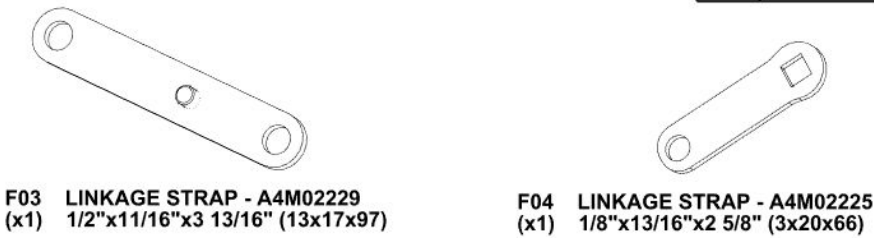
ORIENTATION OF  
KEY STOCK. SQUARE END  
FACES OUT.

F05 (x1)  
LOUVER DRIVE AXLE

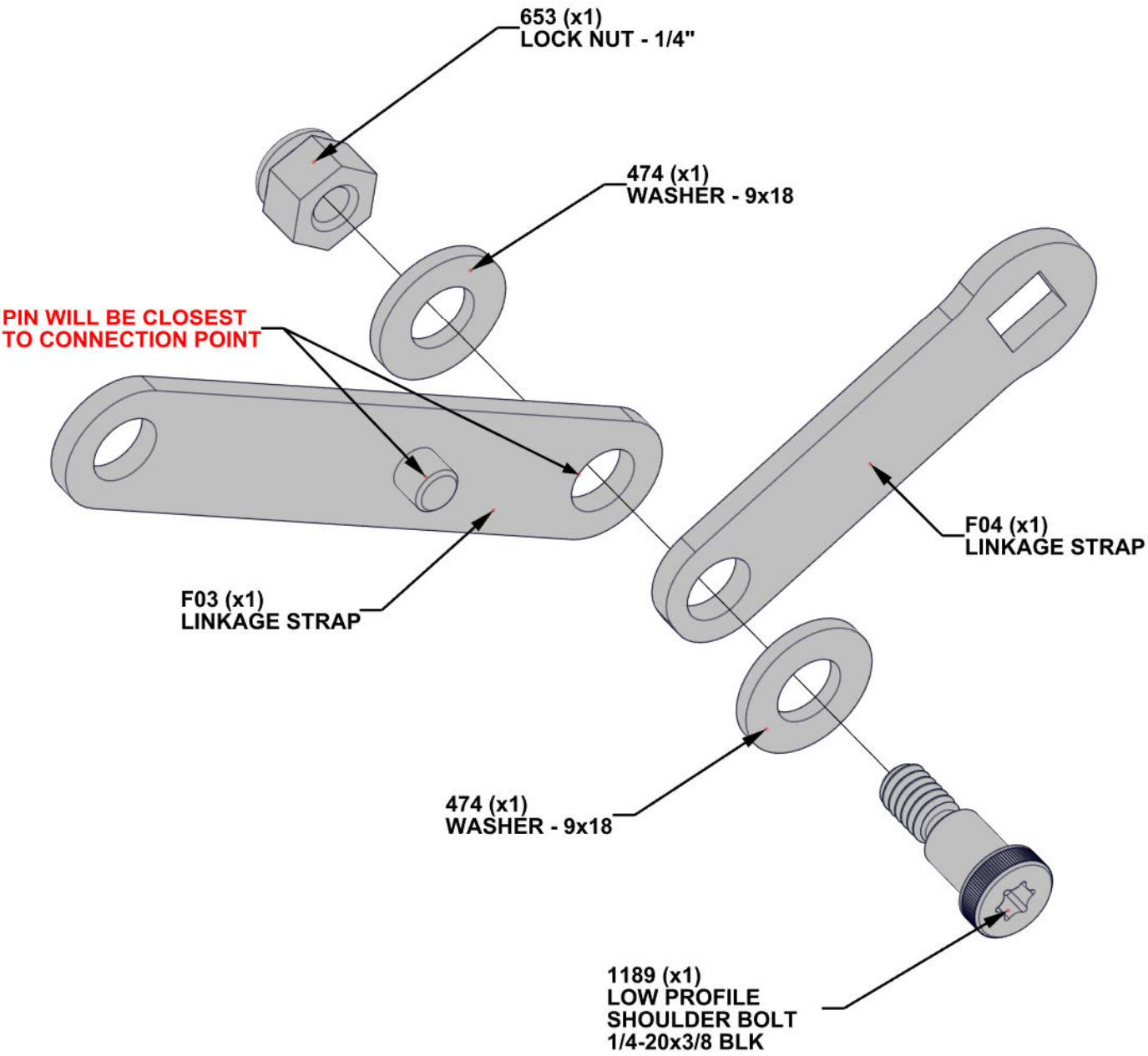


# STEP 28A - LOUVER MECHANISM

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

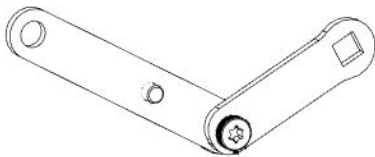


- LINKAGES MUST BE ORIENTED AS SHOWN BELOW.
- DO NOT OVERTIGHTEN HARDWARE.
- LINKAGES SHOULD BE ABLE TO ROTATE FREELY.



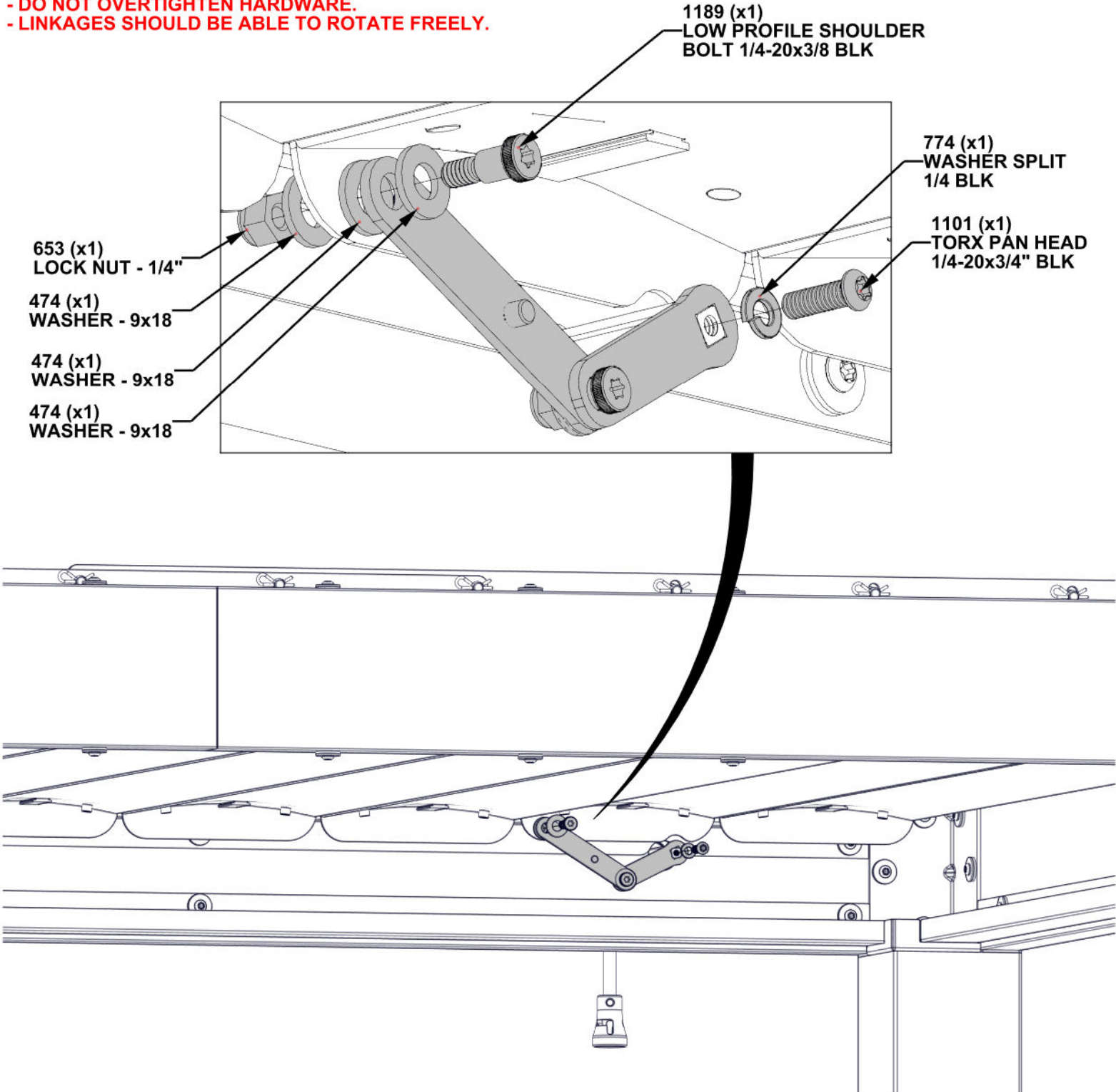
# STEP 28B - LOUVER MECHANISM

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

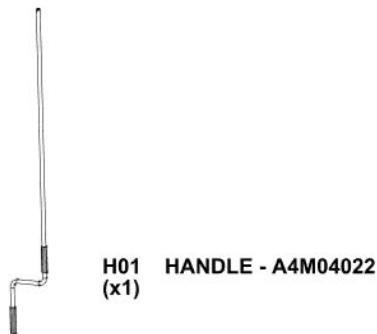


LINKAGE ASSEMBLY  
STEP - 28A

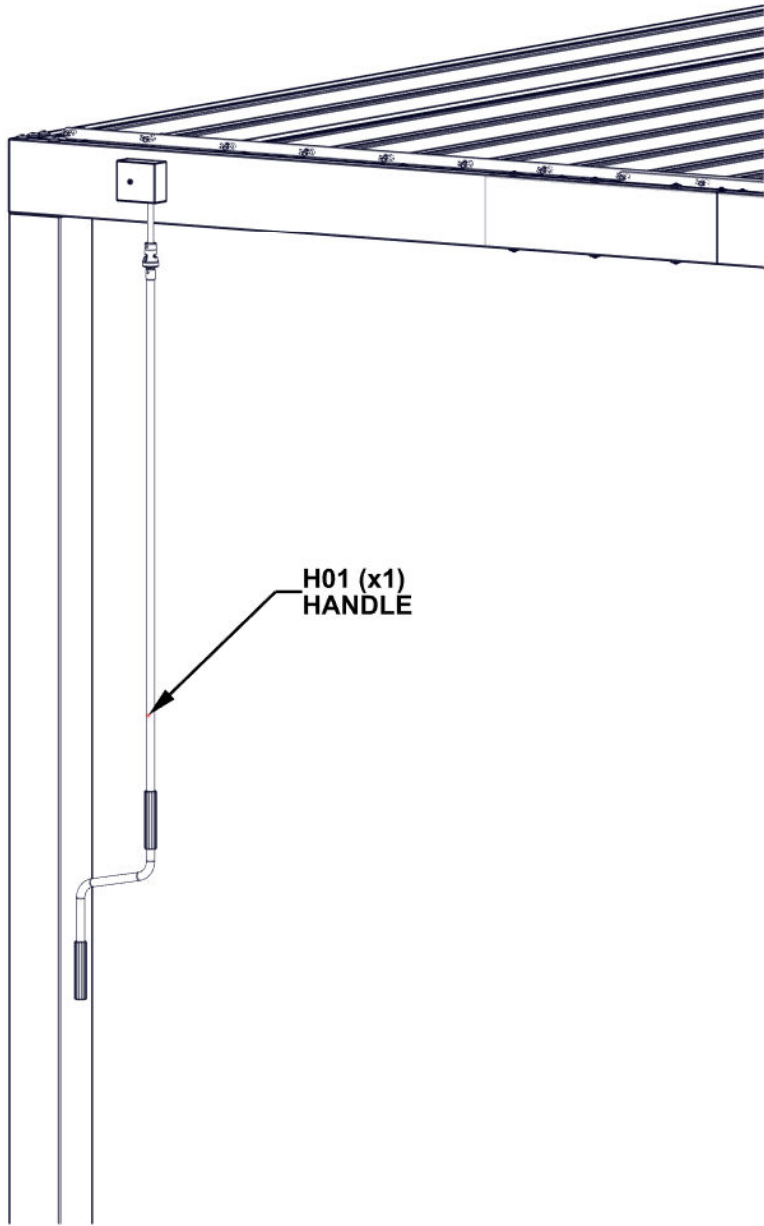
- LINKAGES MUST BE ORIENTED AS SHOWN BELOW.
- DO NOT OVERTIGHTEN HARDWARE.
- LINKAGES SHOULD BE ABLE TO ROTATE FREELY.



# STEP 28C - LOUVER MECHANISM



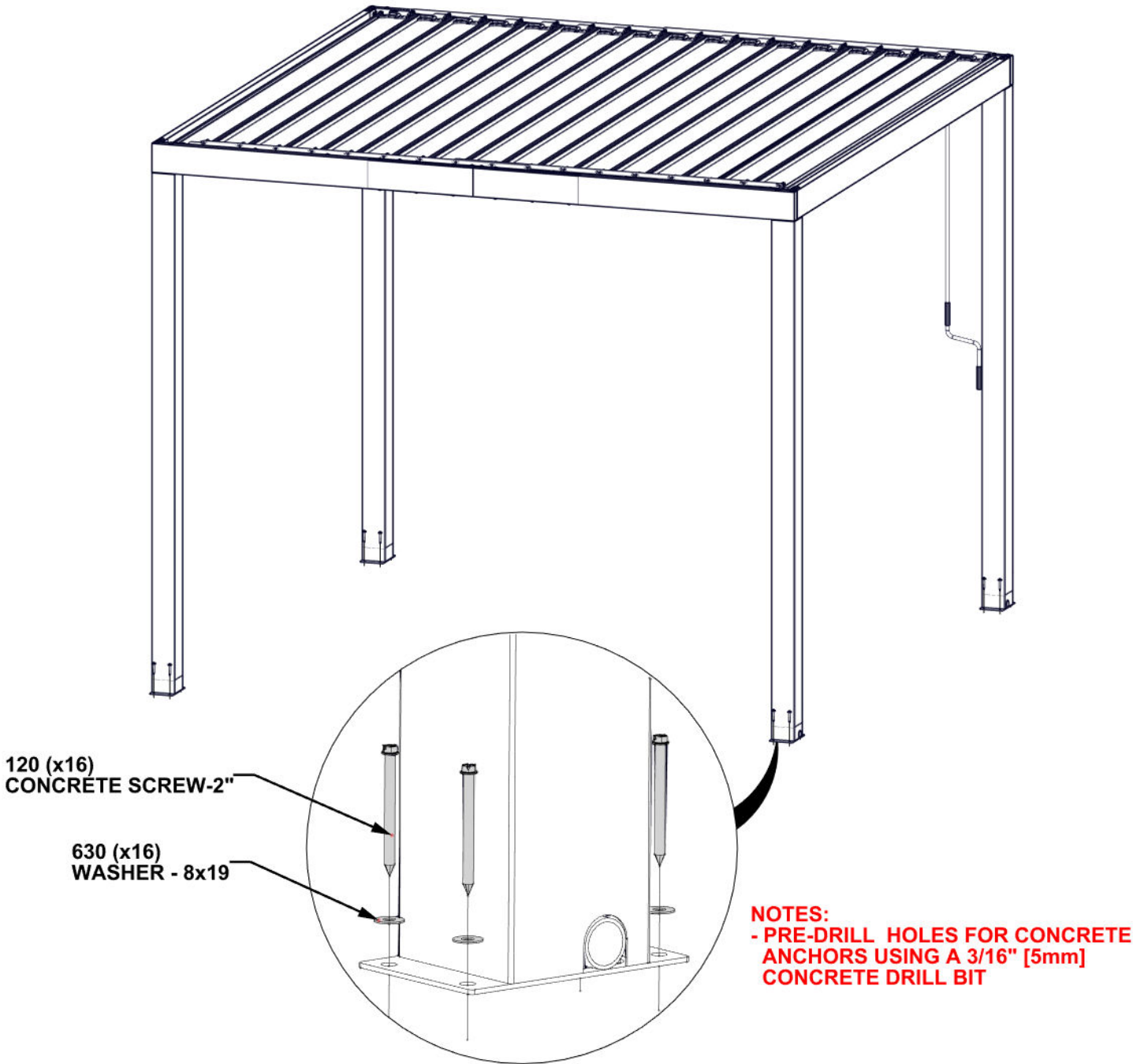
- CONNECT CRANK HANDLE TO MECHANISM. TURN HANDLE TO LOCK IN PLACE.



# STEP 29 - PERGOLA ANCHORING

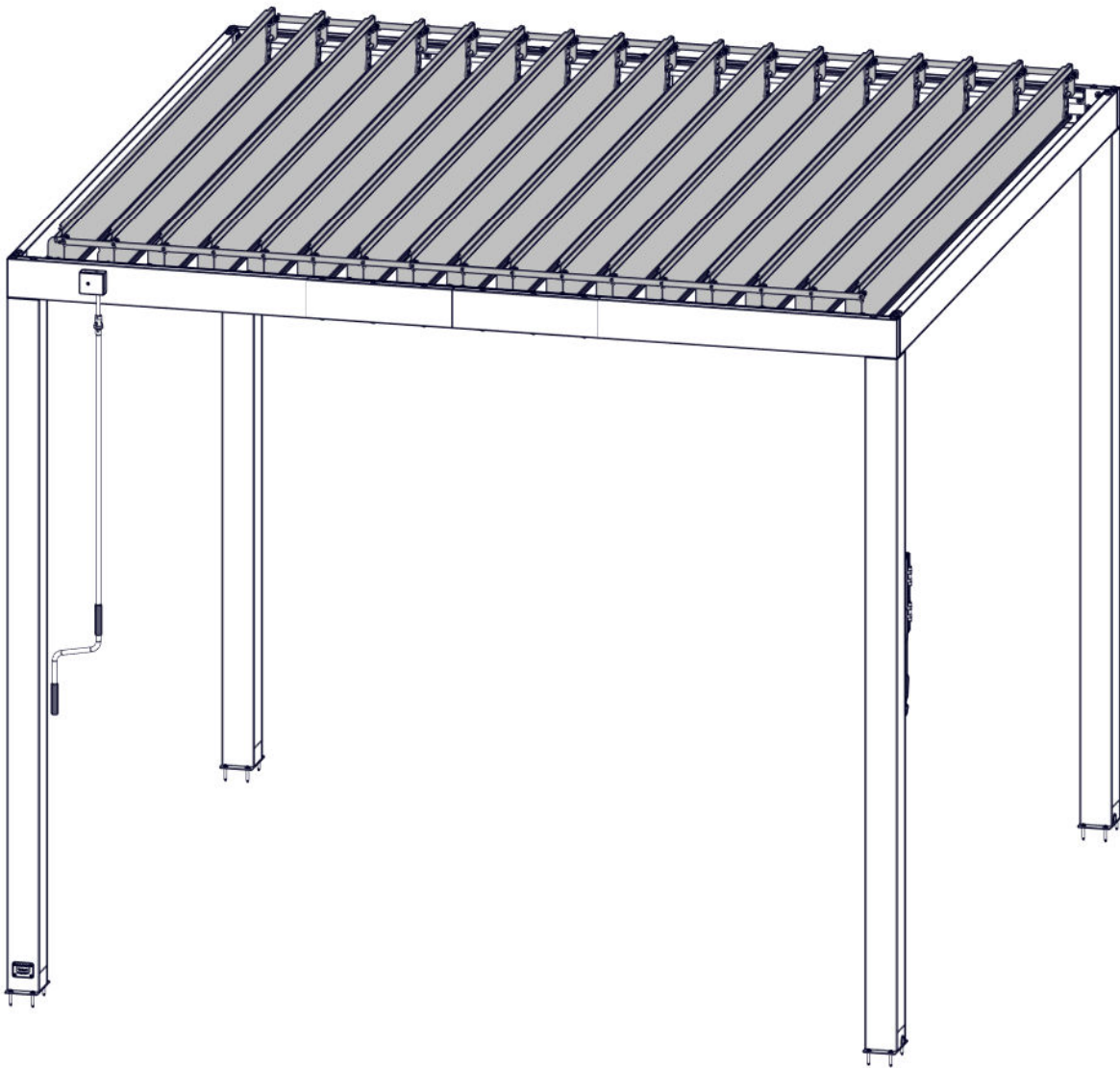
Qty	PartNo	Description
16	H100120	CONCRETE ANCHOR 1/4"x2" BLK
16	H100630	WASHER FLAT 8x19 BLK

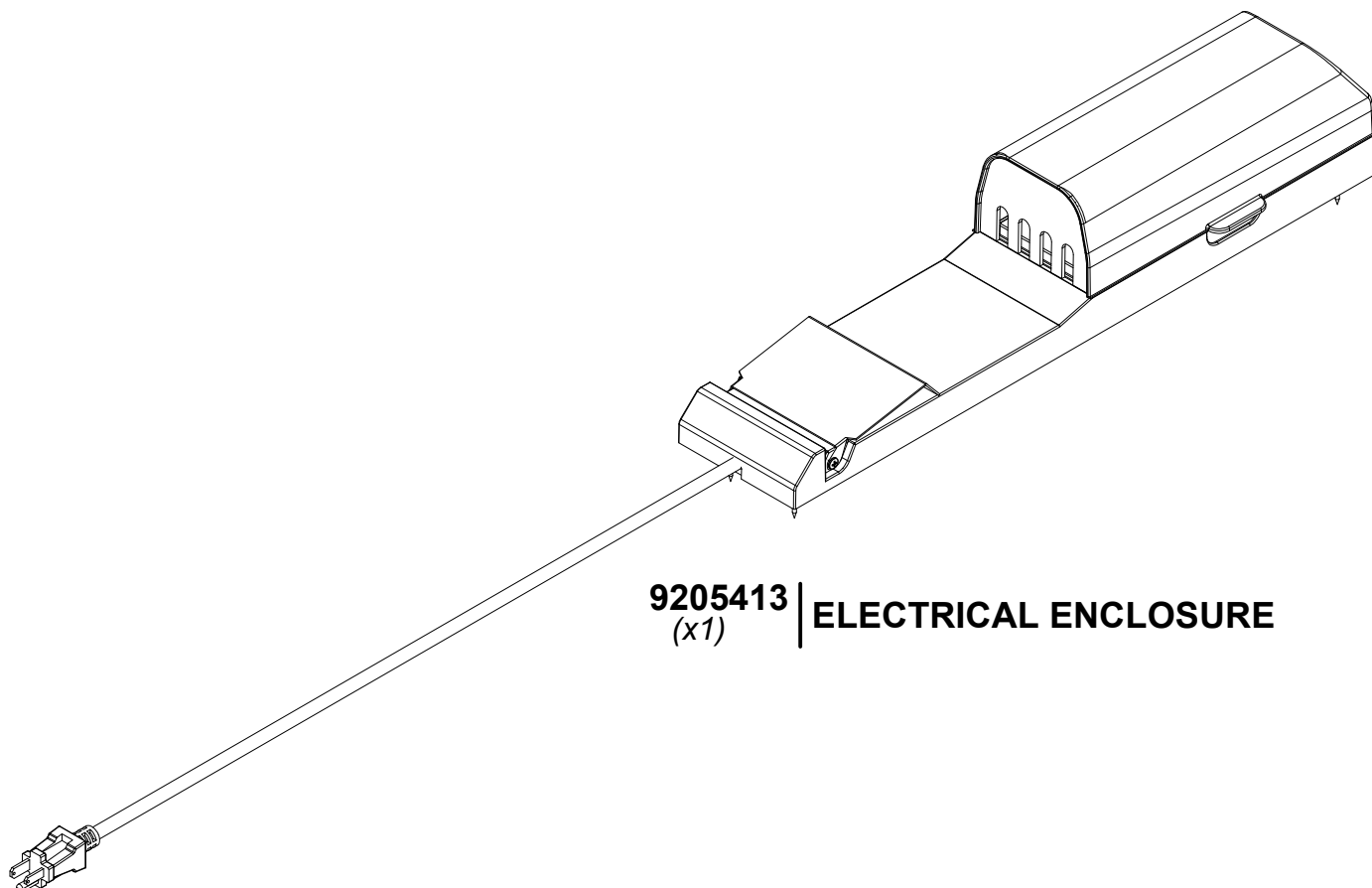
- NOTES:**
- MANUFACTURER RECOMMENDS INSTALLATION ON CONCRETE SURFACE OR CONCRETE POST PADS. SEE BELOW.
  - FOR INSTALLATION ON WOOD DECKS, YOU MUST ENSURE THERE IS AMPLE STRUCTURAL SUPPORT UNDER DECK.
  - REPEAT THIS STEP FOR ALL FOUR POST.



## 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.