



Assembly

- Contact
- Assembly overview and video tutorials
- Common mistakes (checklist)
- Assembly manuals
- Maintenance manual



Contact us



We support partners before, during and after the implementation of our shelters.

Apart from technical support, we offer consultations on how you can adapt our shelters to meet your specific needs.

If you notice any inconsistencies in the content of this document or have any suggestions, please reach out.



Miguel Acebrón Garcia de Eulate
Technical Support Manager



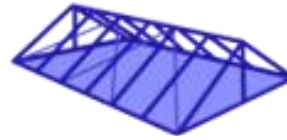
miguel.eulate@bettershelter.org



+46 702 99 18 24



Better Shelter assembly overview

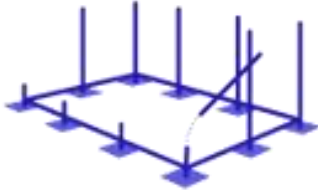


1 Identify appropriate location and ground conditions

2 Install anchors and foundation
([video 1-5](#))

3 Assemble roof structure
([video 6-8](#))

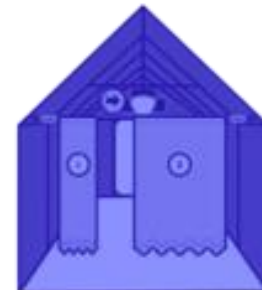
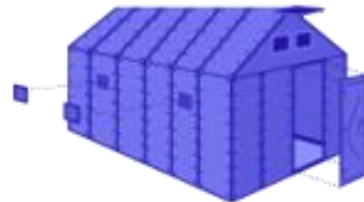
4 Attach panels, ventilation and solar panel
([video 9-13](#))



5. Install pipes on foundation
([video 14](#))

6. Mount roof on frame

7 Add pipes and cross wires



8. Attach panels
([video 15](#))

9. Install windows and door
([video 16-17](#))

9. Install windows and door
([video 16-17](#))

11. Install floor
([video 19](#))



Hope starts
with a home

Common mistakes guide



Common mistake

Forgetting to insert the L-bolts in the ground plates.



This will lead to the risk of the shelter not properly being anchored to the ground, and compromising stability when facing strong winds, rain and torrents.



Correct approach

Ensure that the L-bolts are inserted to connect the ground plates with the ground pipes.

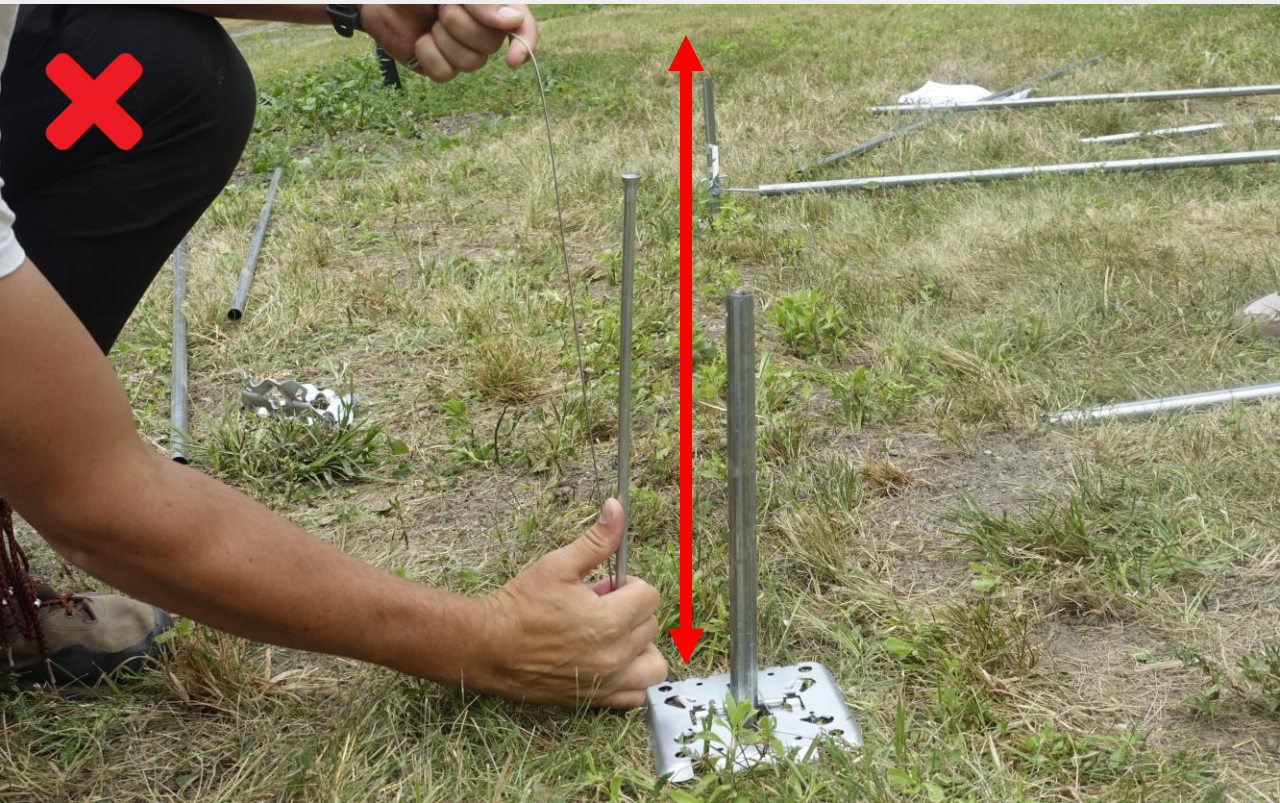


Common mistake

Not hammering the anchor to the correct depth into the ground.



If the anchor is not hammered deep enough, it may make the shelter vulnerable to strong winds. If the anchor is hammered too deep, there will not be enough cable left to attach to the ground plate.



Correct approach

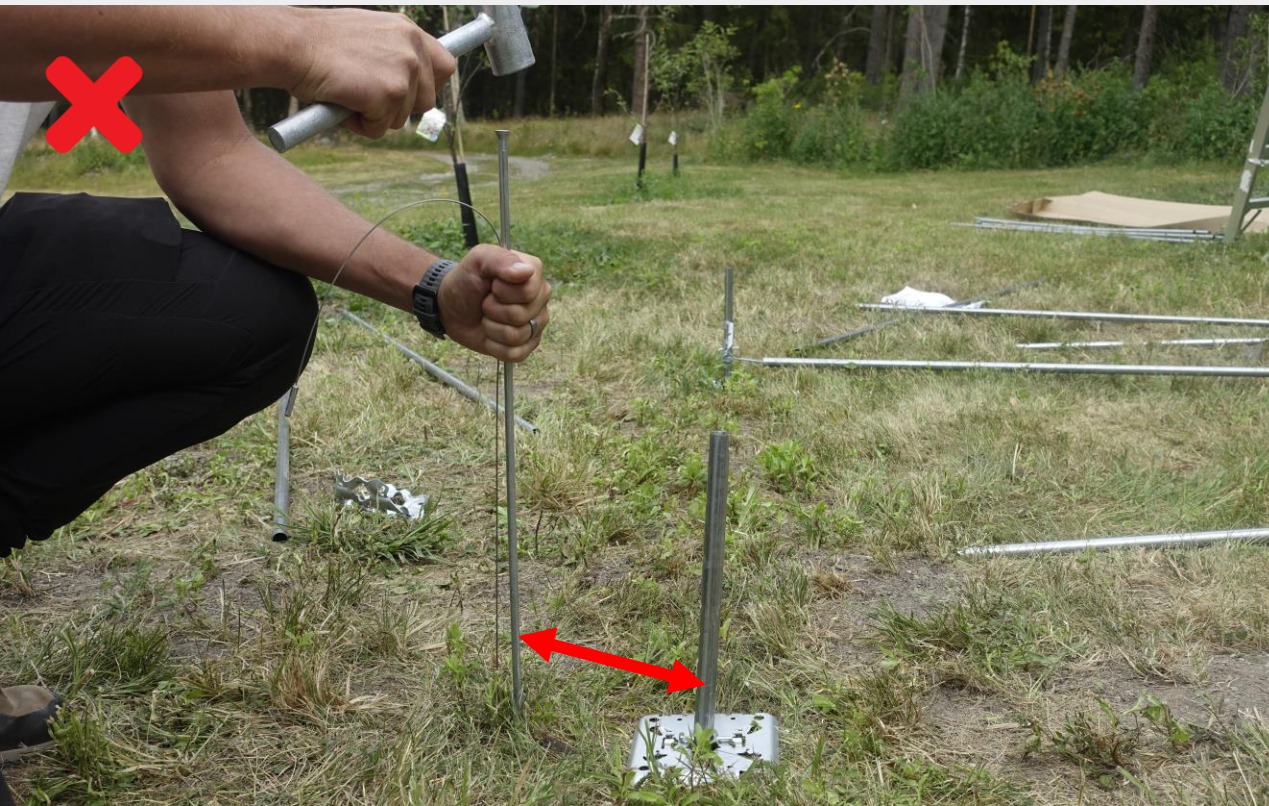
Hammer the anchor to the correct depth.



Common mistake

Hammering the ground anchor too far from the ground plate.

***** The anchor will not be deep enough into the soil to be loadbearing and the shelter risks blowing away.



Correct approach



Hammer the ground anchor close to the ground plate.



Common mistake

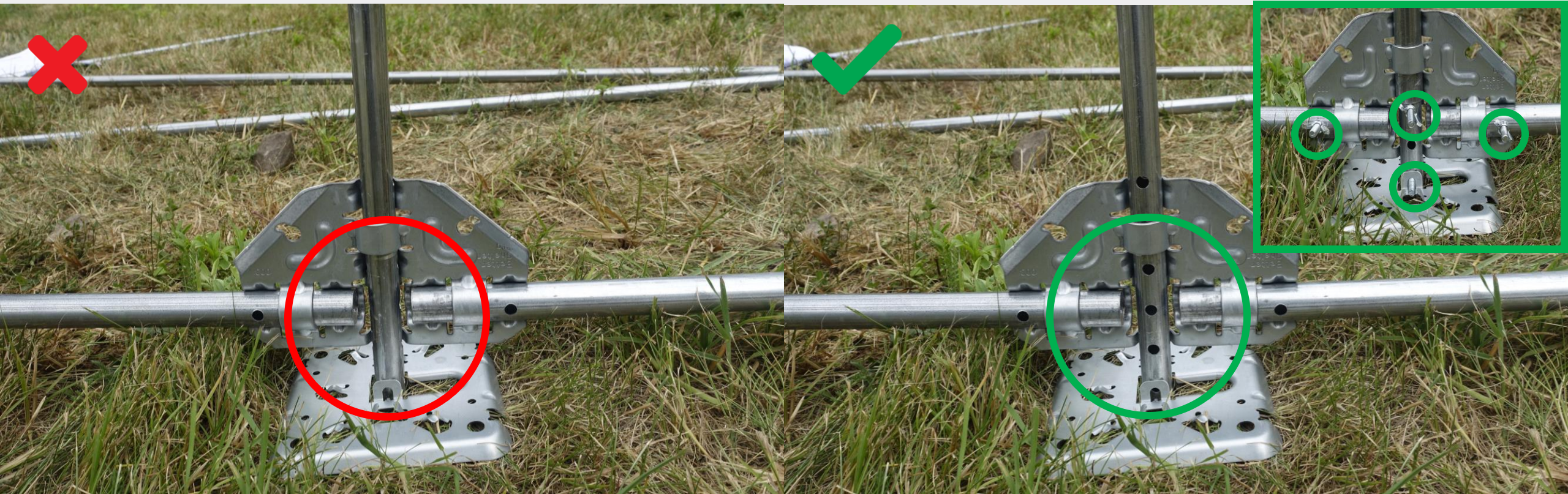
Placing the pipes with the holes facing the wrong direction.



If the holes are placed in the wrong direction, inserting the L-bolts to attach the ground pipe, joint and wall column will not be possible. This can make the shelter unable to withstand strong winds.

Correct approach

Place the pipes with holes facing the correct direction.



Common mistake

Forgetting to insert the L-bolts in the joints that connect to the ground pipe.

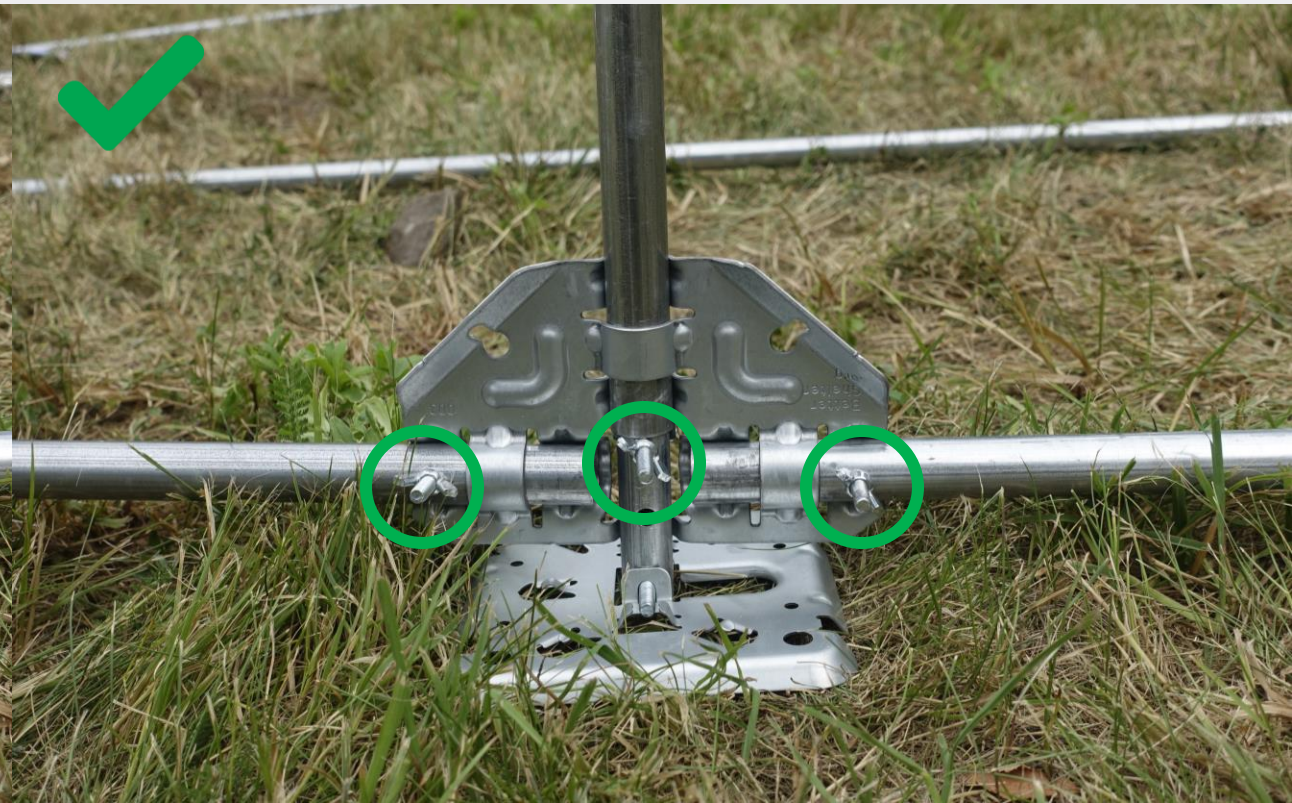
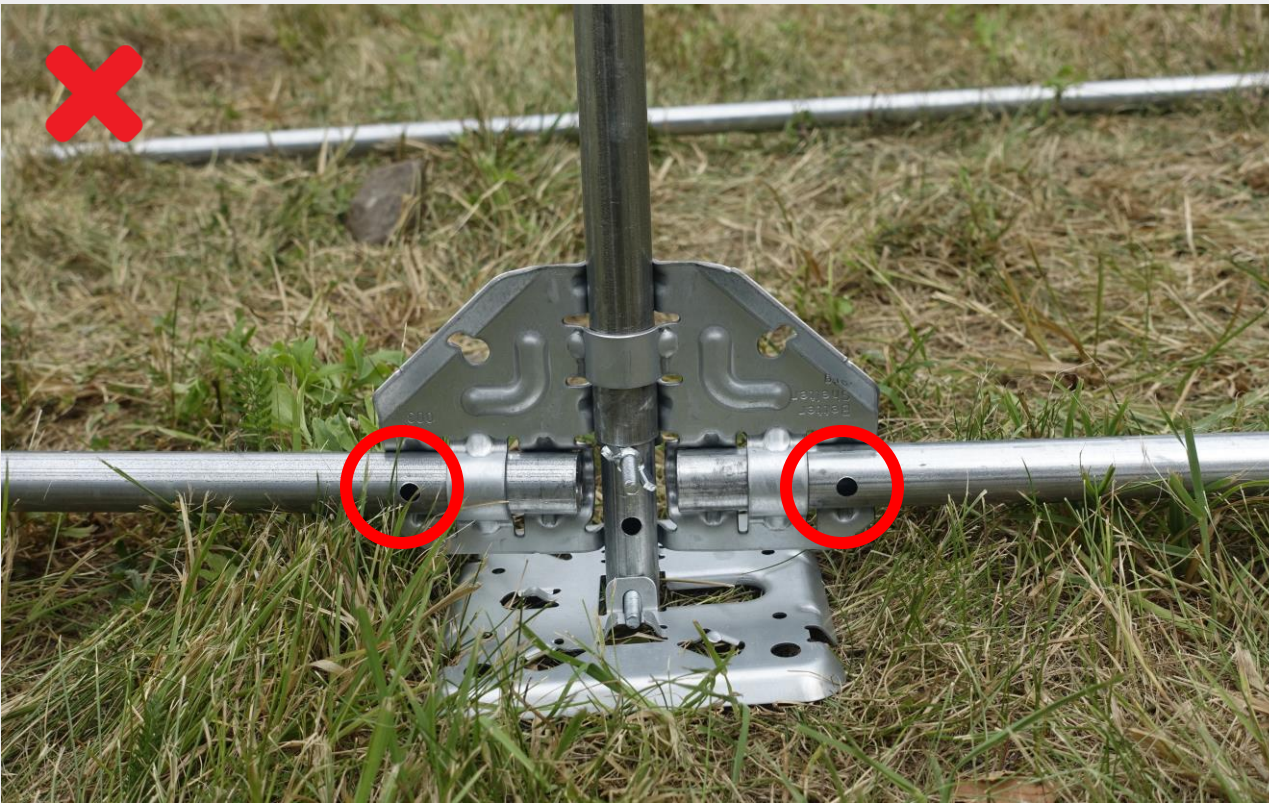
Correct approach



Ensure that the L-bolts are inserted to connect the joints to the ground pipes.



May lead to the risk of the pipes slipping out of place when exposed to strong winds or torrents.

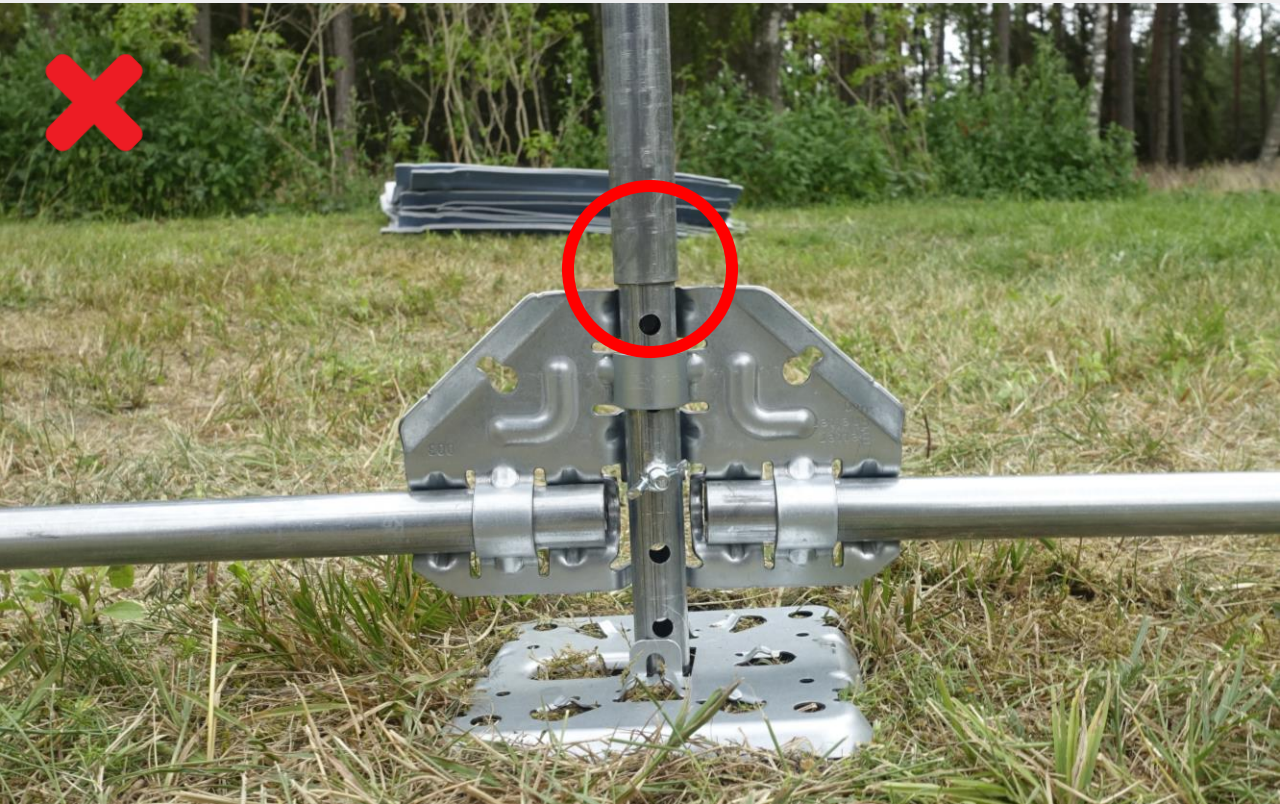


Common mistake

Not inserting the wall pipes all the way down so that they are resting on the L-bolts underneath.



Will pose a risk of compromising stability. The roof will not be able to take wind forces if the pipes are not resting on the L-bolts underneath.



Correct approach



To ensure to insert the wall pipes all the way down so that they are resting on the L-bolts underneath.



Common mistake

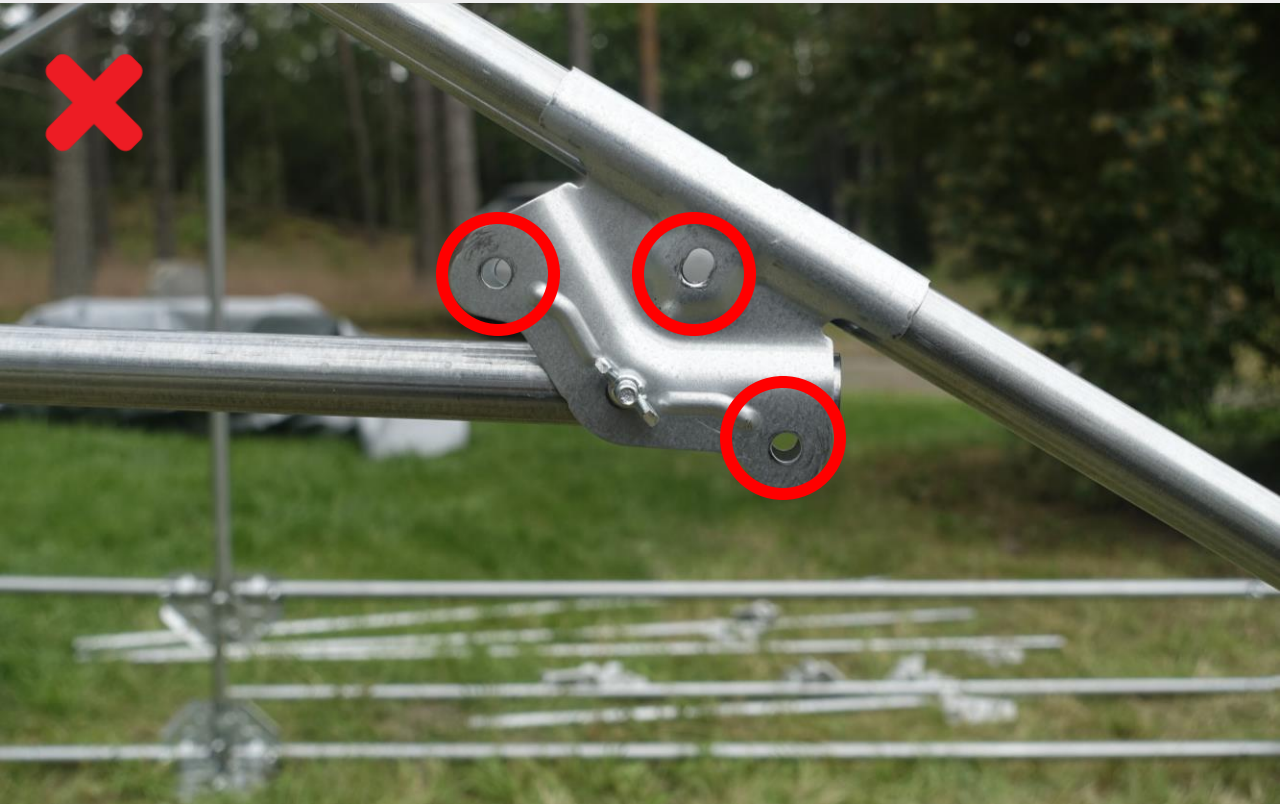
Not attaching all four L-bolts to the roof truss.

Correct approach



To ensure that all the four L-bolts are attached to roof truss.

***** The L-bolts will support the roof truss and stabilise it when facing strong winds.

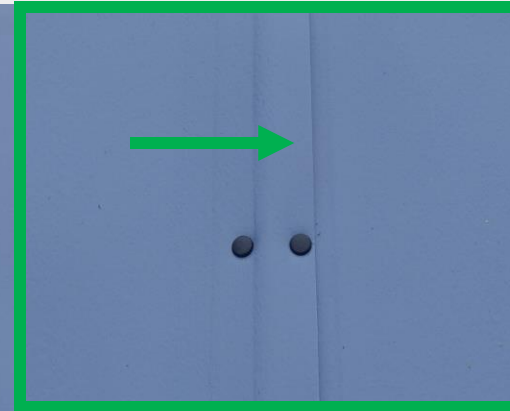
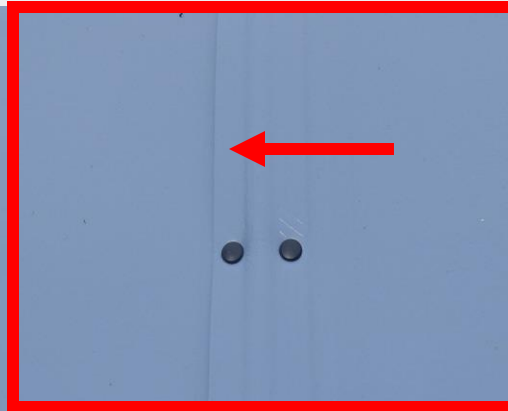


Common mistake

Overlapping the roof panels in the wrong direction, from left-to-right.



Will pose a risk of water leakage.



Correct approach

To ensure the roof panels are overlapping in the correct direction, from right-to-left.



Common mistake

Placing the roof panels on an uneven plane, so that a depression forms a gutter at the eave/edge of the roof.

✱ Will pose a risk of water collecting on the roof and not being drained.



Correct approach



To ensure that the wall and roof panels are correctly placed on a straight, even plane to avoid forming a gutter.



Common mistake

Overlapping the wall panels in the wrong direction, from left-to-right.



Will pose a risk of water leakage.



Correct approach



To ensure that the wall panels are overlapping in the correct direction, from right-to-left.

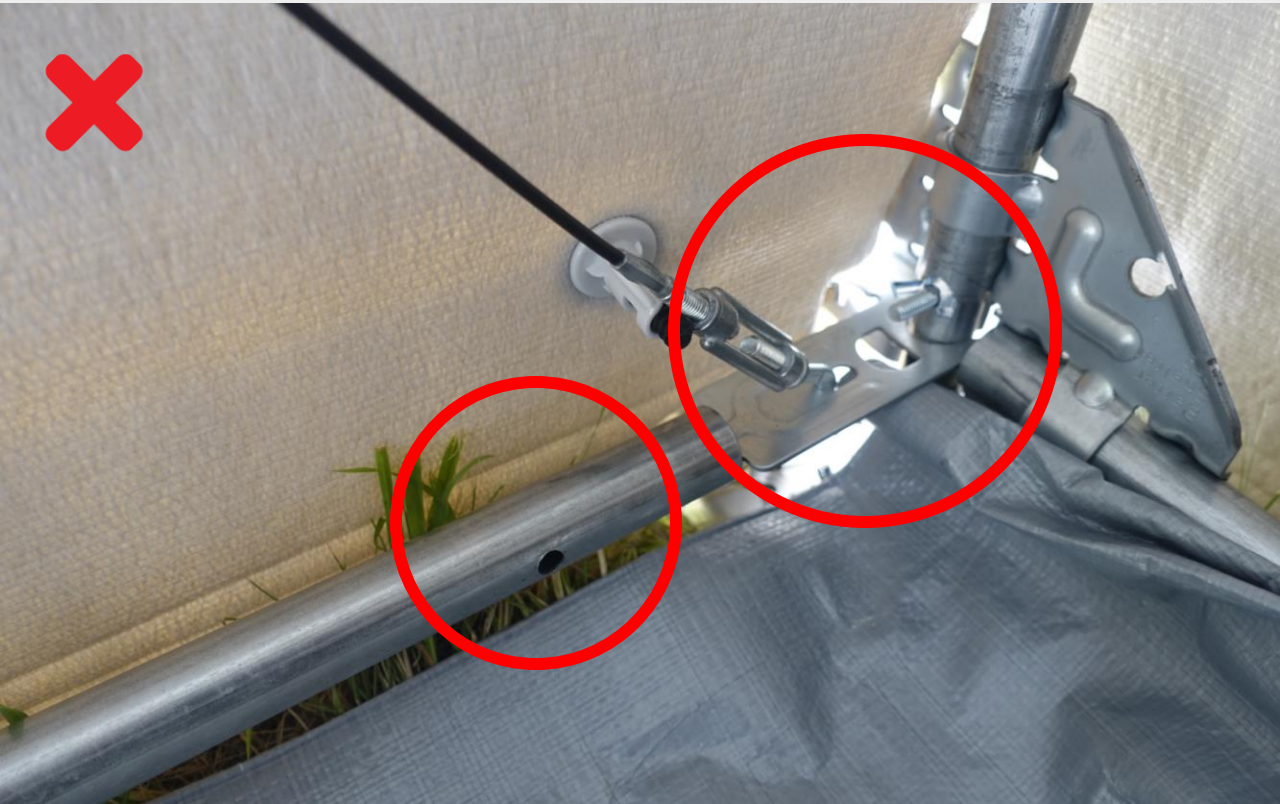


Common mistake

Not attaching the T-connectors to the L-bolts.



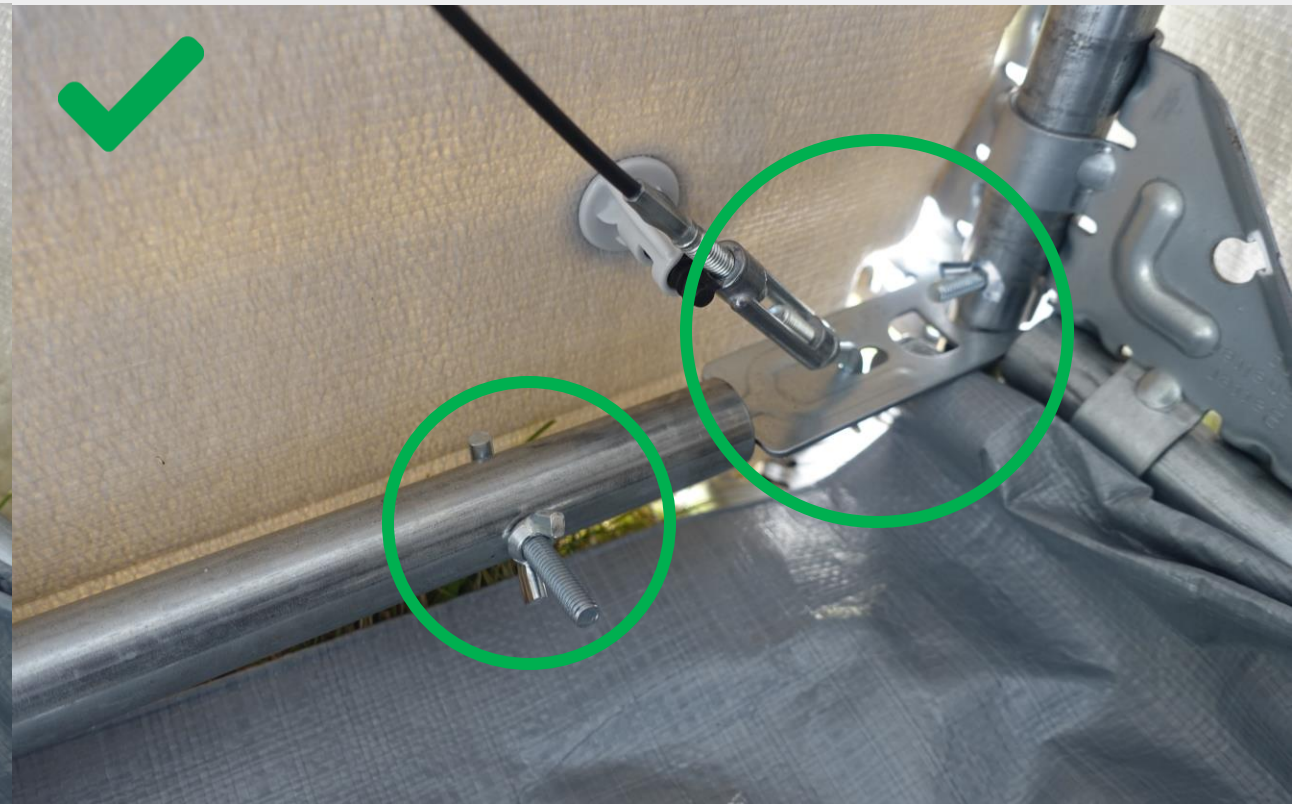
Will pose a risk in compromising the stability of the shelter, as it will not work as one unit/system against strong winds and torrents.



Correct approach



To ensure to attach the T-connectors to the L-bolts.

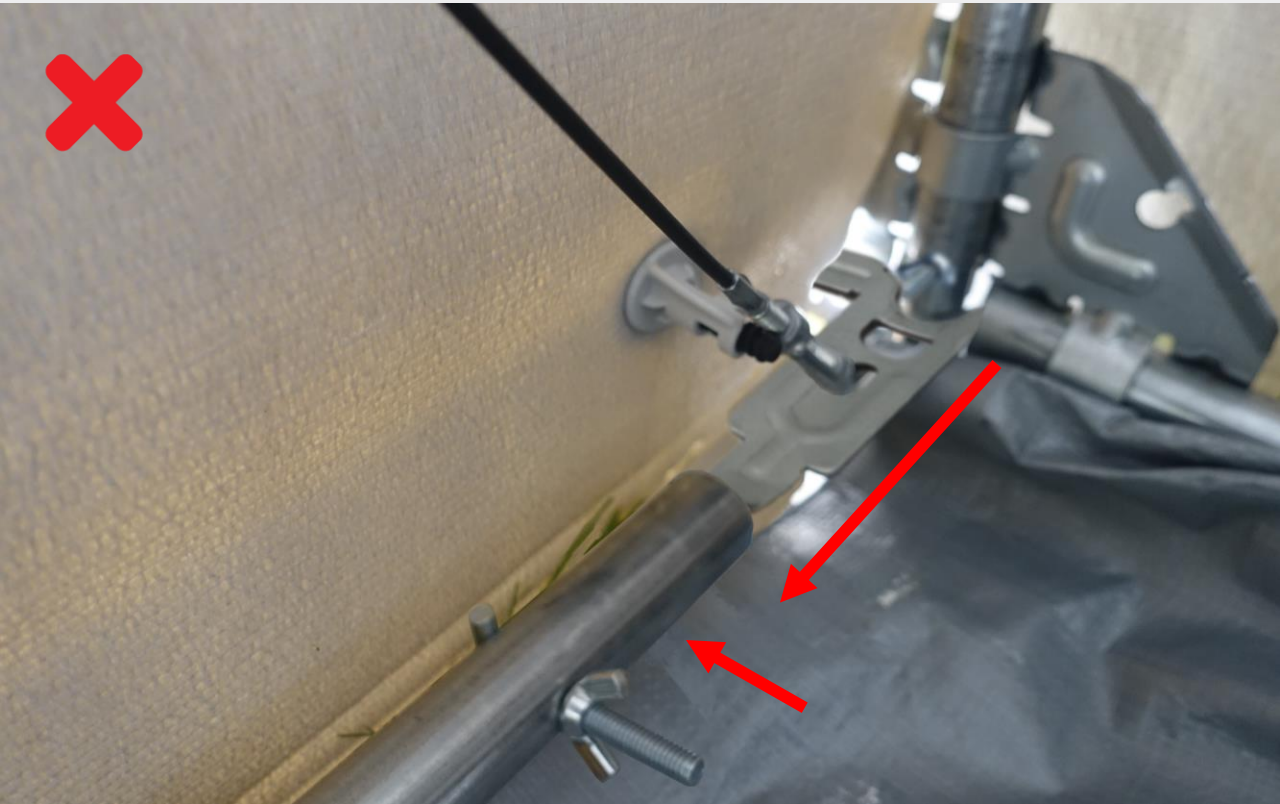


Common mistake

Not attaching the T-connectors all the way into the pipe.



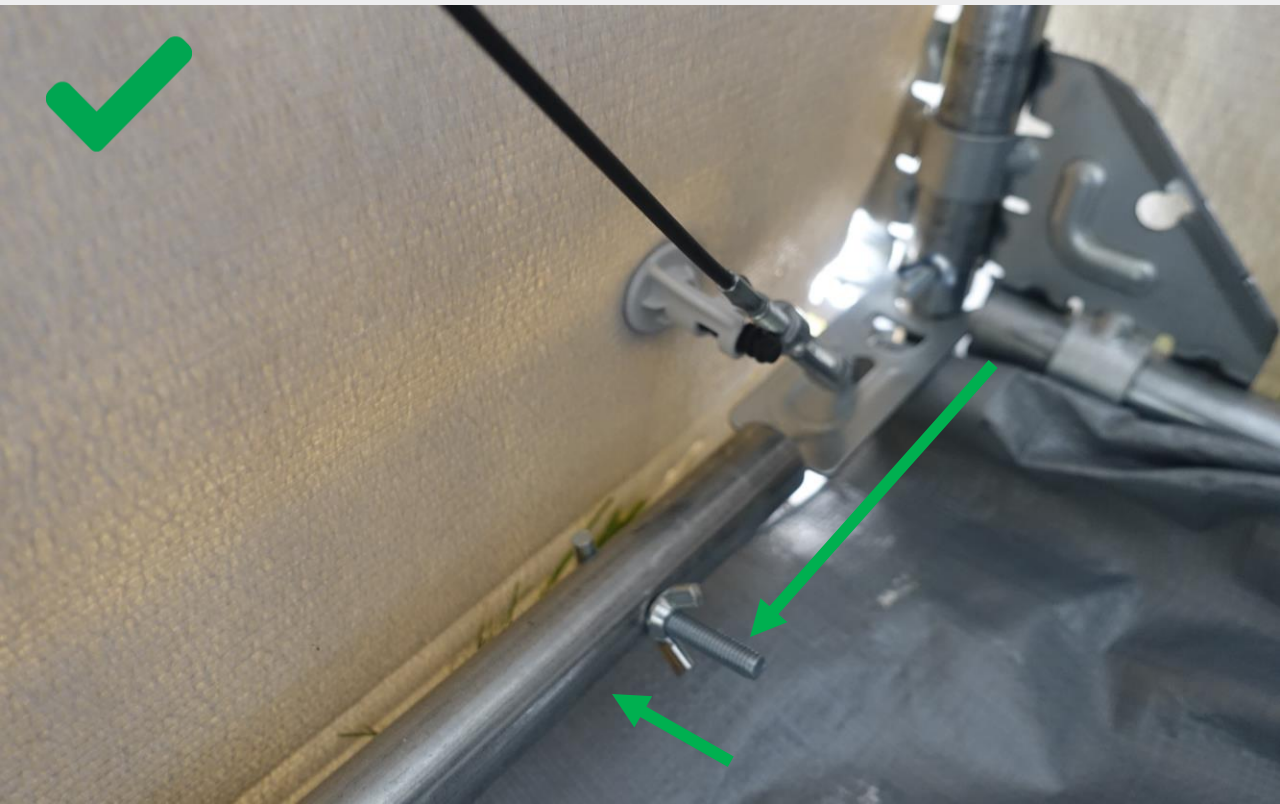
Will pose a risk in compromising the stability of the shelter, as it will not work as one unit/system against strong winds and torrents.



Correct approach



To ensure to attach the T-connectors all the way until the stop into the pipe.



Common mistake

Not connecting the wire bracing on the short side to the correct hole.



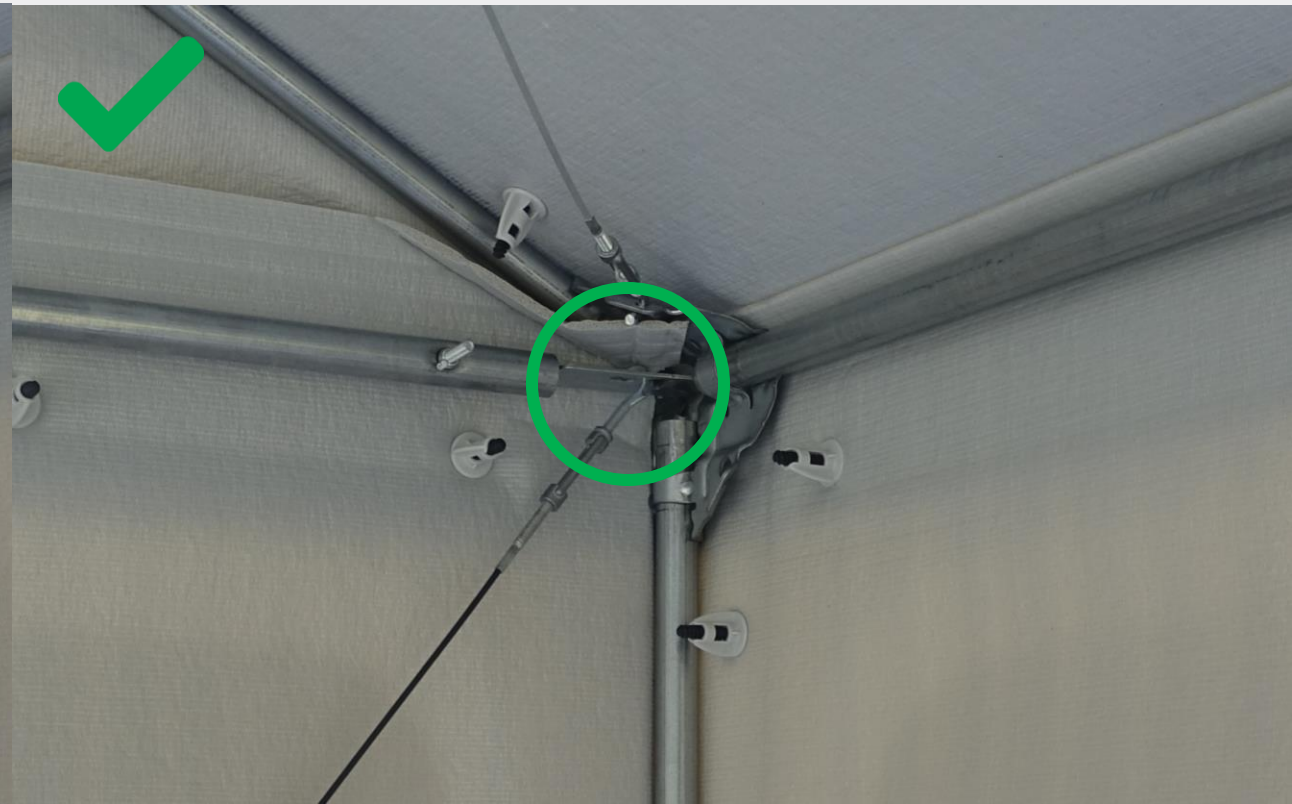
Will pose a risk in compromising the stability of the shelter, as it will not work as one unit/system against strong winds and torrents.



Correct approach



To ensure the wire bracing on the short side is connected to the correct hole.



Common mistake

Not tightening the wire bracings enough when the build is done.



Will pose a risk in compromising the stability of the shelter, as it will not work as one unit/system against strong winds and torrents.



Correct approach



To ensure that the wire bracings are tightened to a sufficient tension when the build is done.



Common mistake

Mounting the door with the hinges facing a non-load-bearing pipe.



Will pose a risk that the door will fail over time.



Correct approach



To ensure the door is mounted with the hinges facing a load-bearing pipe.



Common mistake

Placing the door canopy overlapping the wall and roof panels.



Will pose a risk of water leakage.



Correct approach



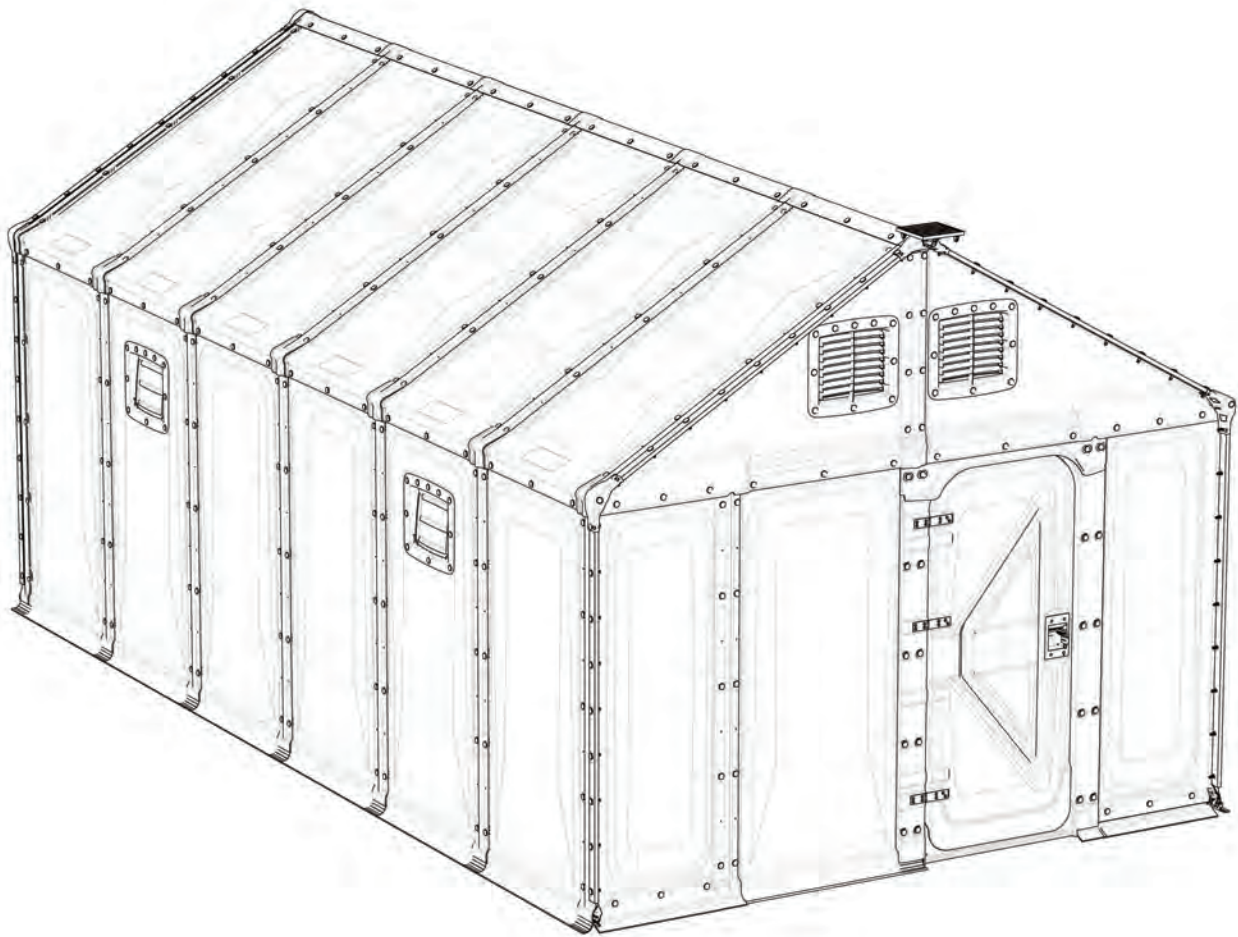
To ensure that the door canopy is placed under the roof panel and above the wall panel.



Better Shelter Pre Assembly Manual

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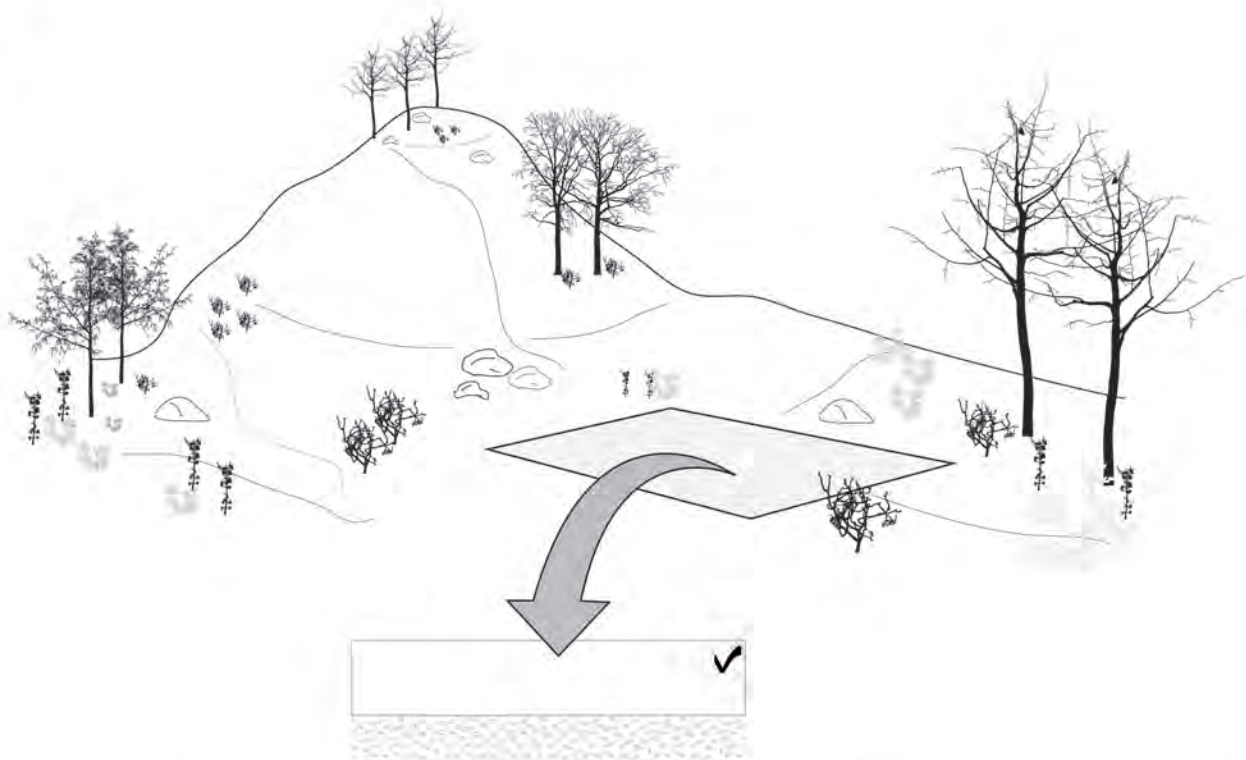
Manual de Montaje
Manuel de Montage
Montageanleitung
Manuale di Montaggio



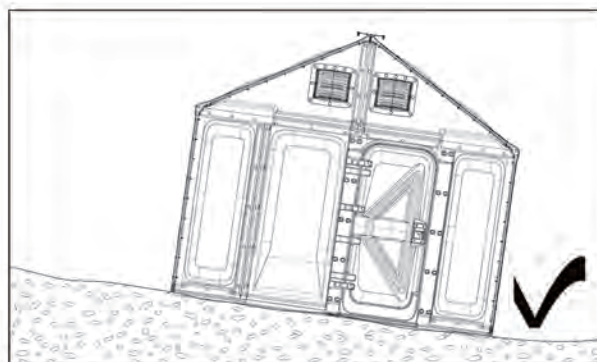
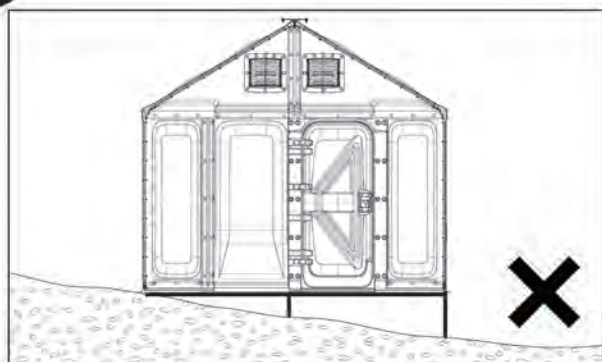
Important control steps marked in red

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1

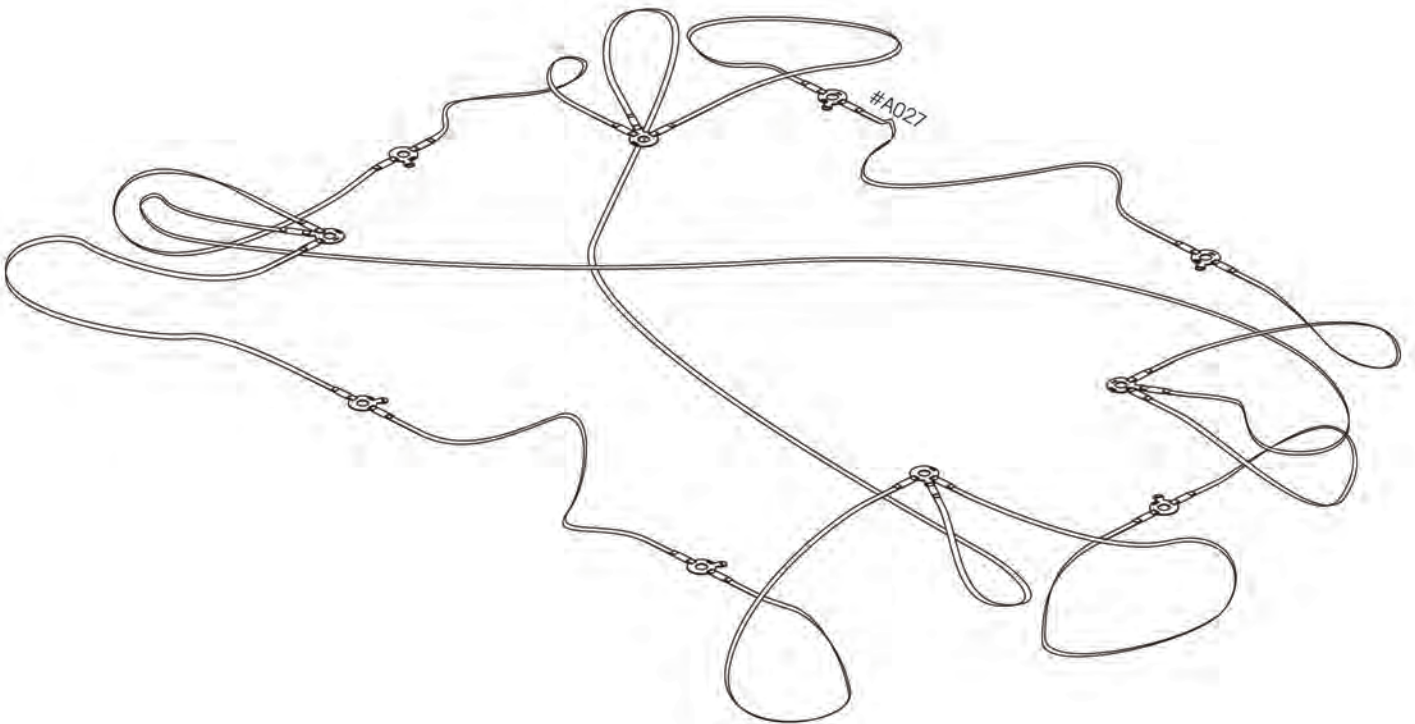
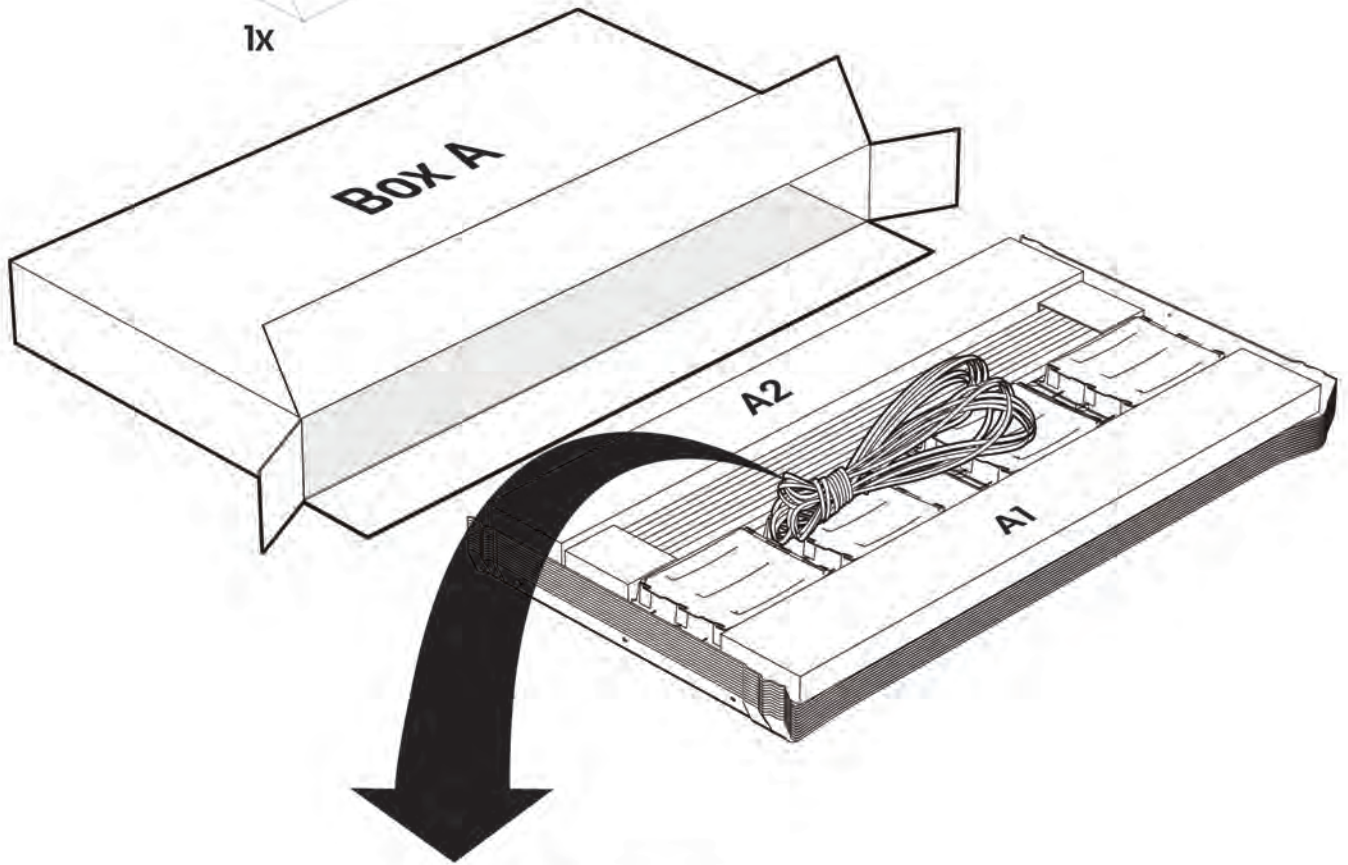
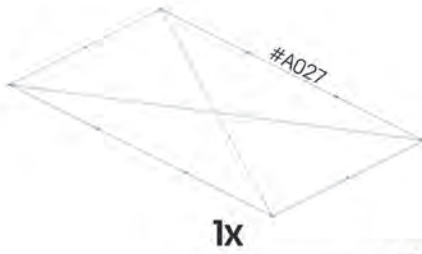


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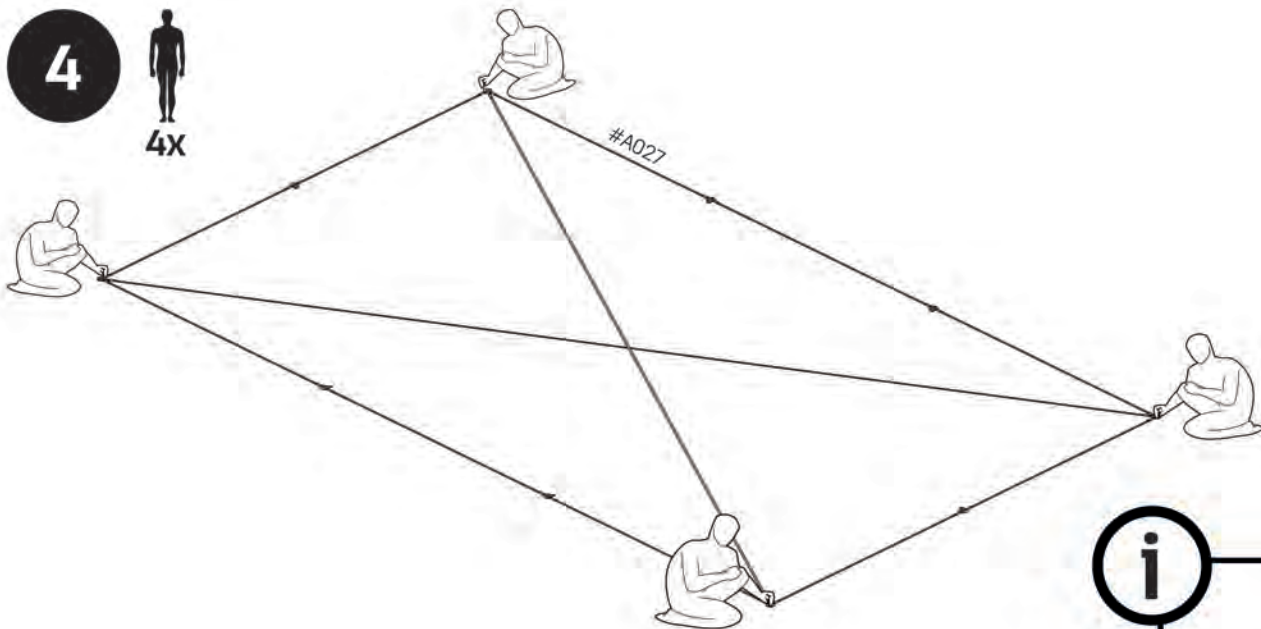


Max 6 degrees slope

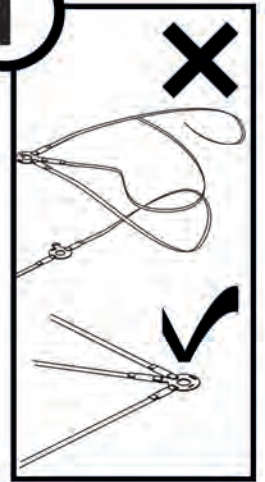
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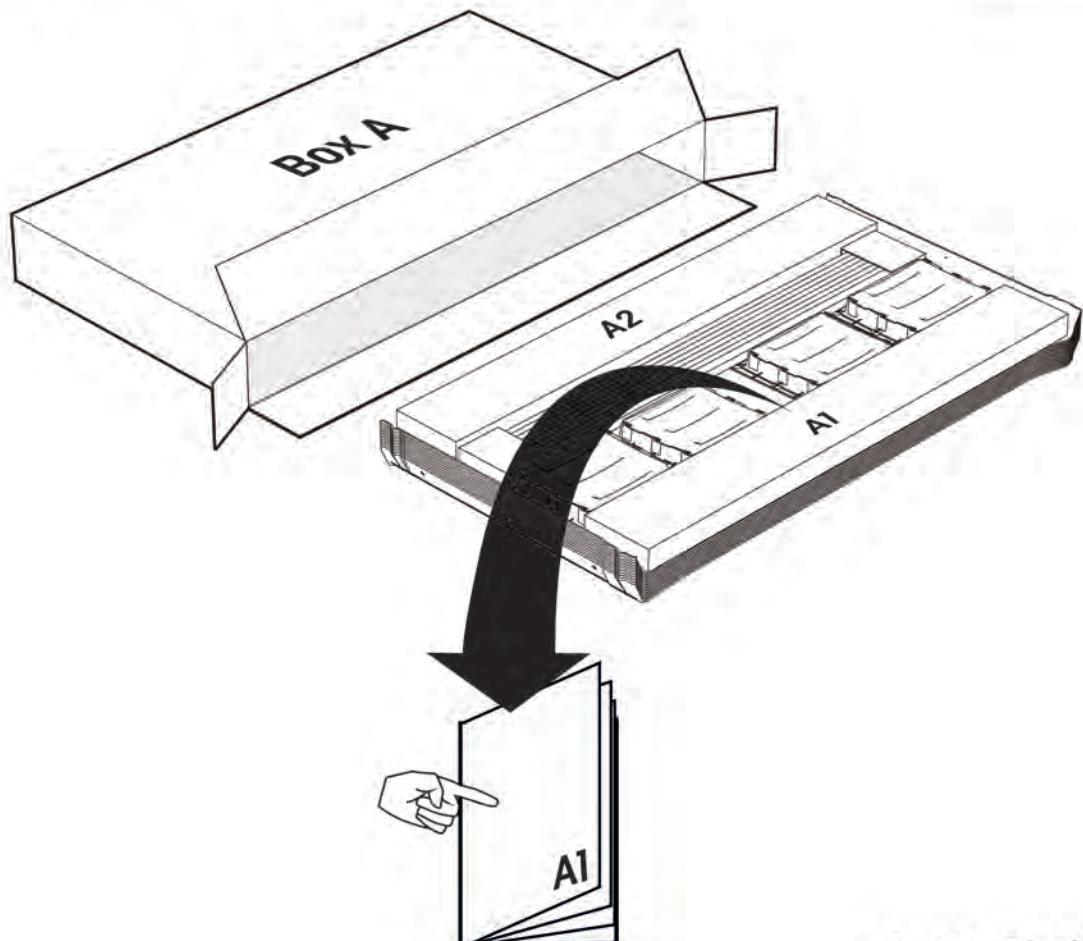


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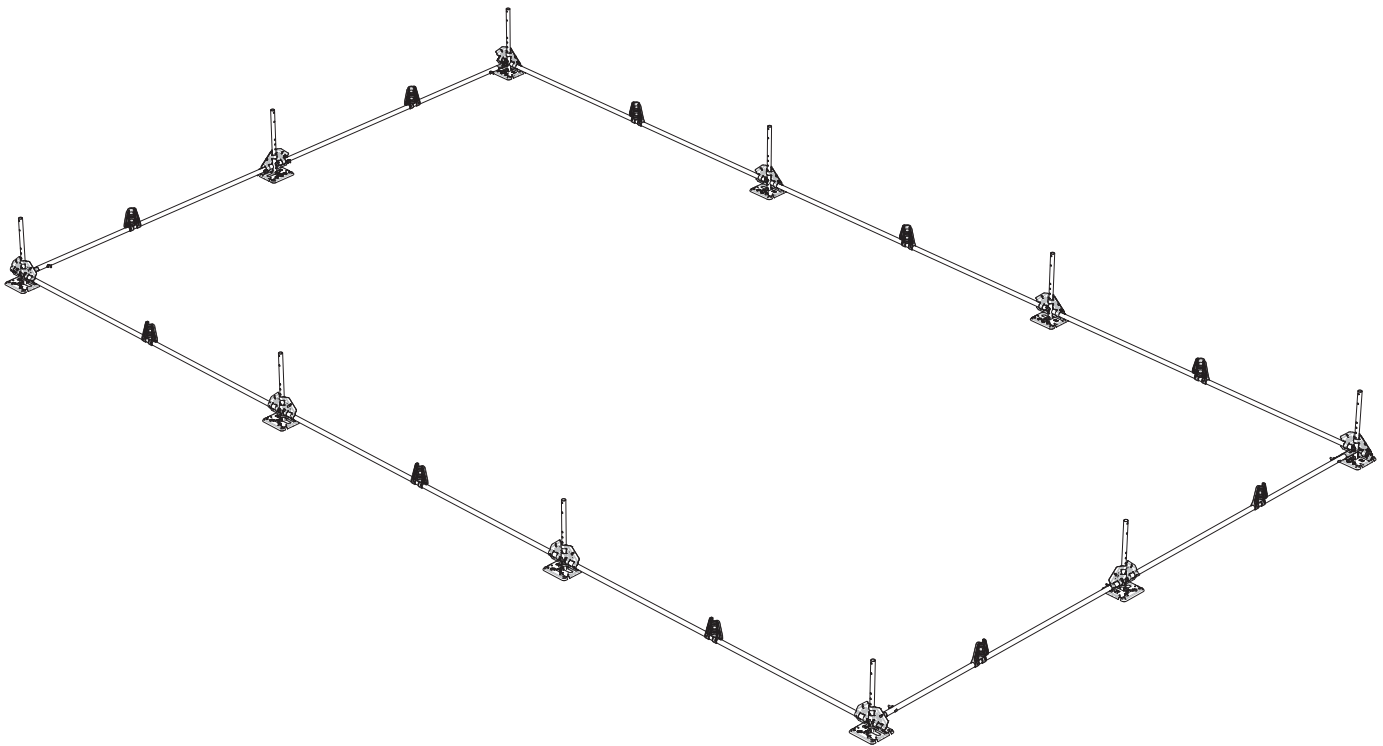
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CONTENTS Box A



Better Shelter **A1 _ Foundation** **Assembly Manual**

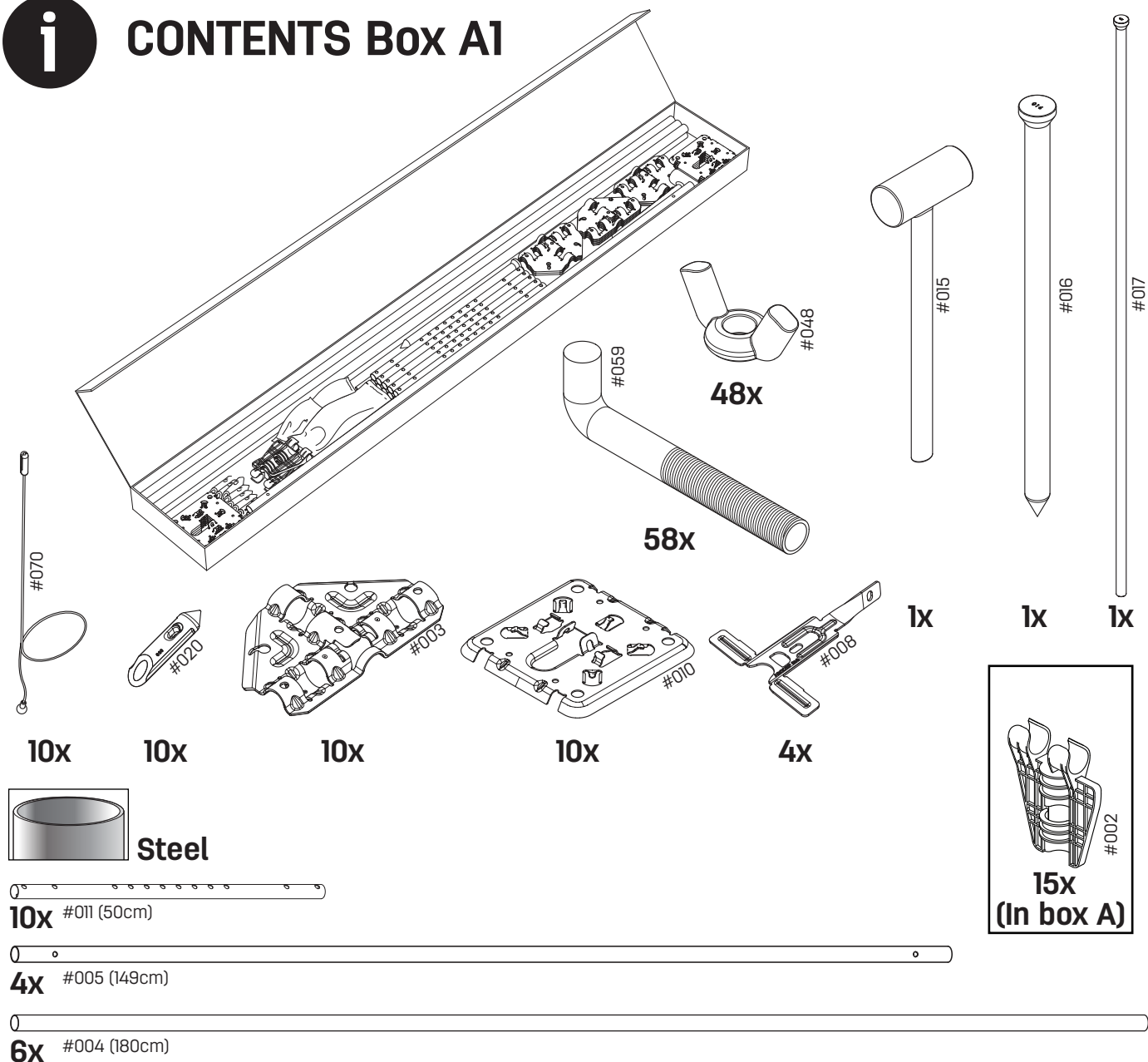
Manual de Montaje
Manuel de Montage
Montageanleitung
Manuale di Montaggio



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CONTENTS Box A1



Legend

1 2

Main steps of assembly

1 2 3 4

Sequence of assembly

Insertion path

2x
#004

Number of parts in step or total
Part ID number

X2

Number of repetitions



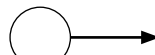
Movement direction



Active part



Information



Detail placement



Rotate part or move to opposite part
of shelter

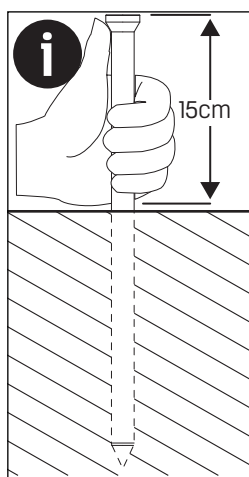
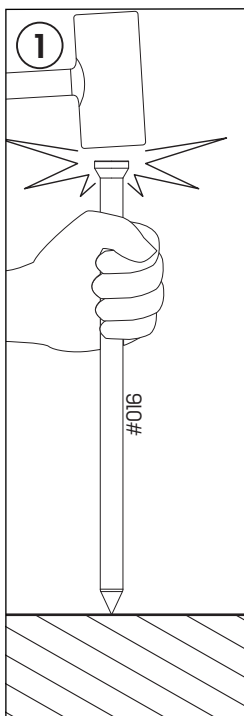
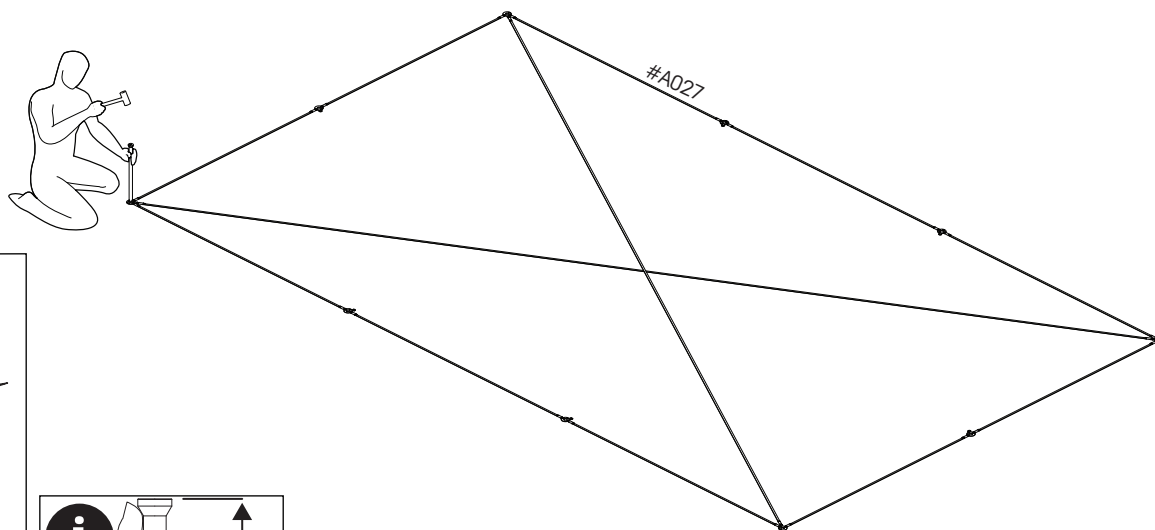
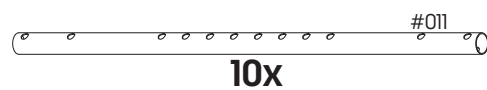
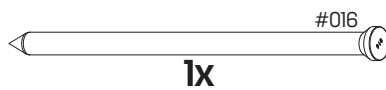
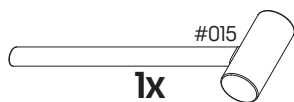


Important detail or position

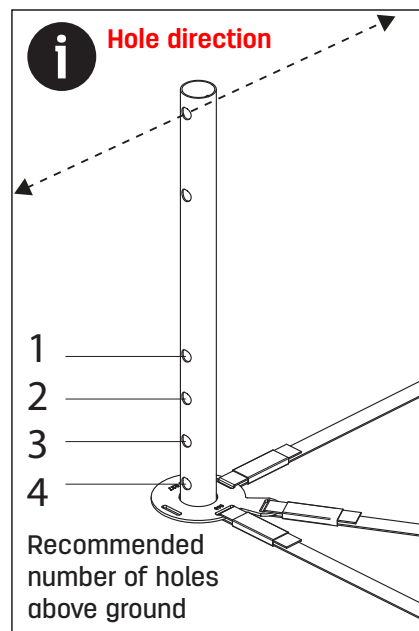
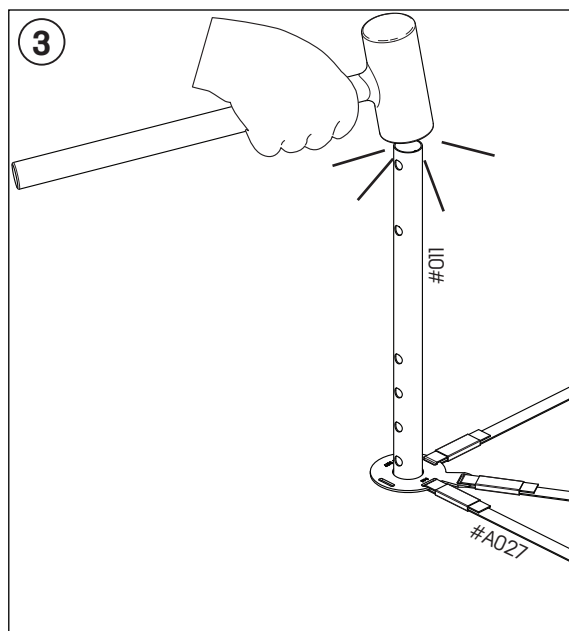
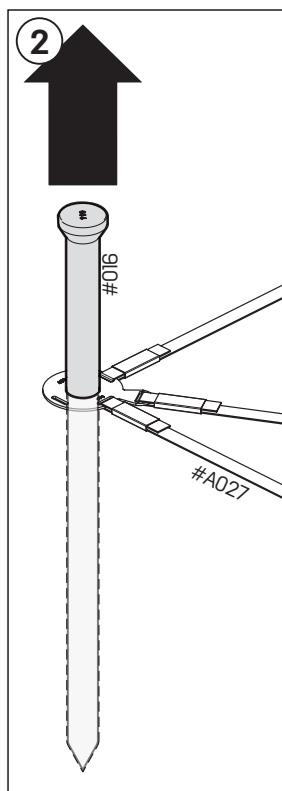
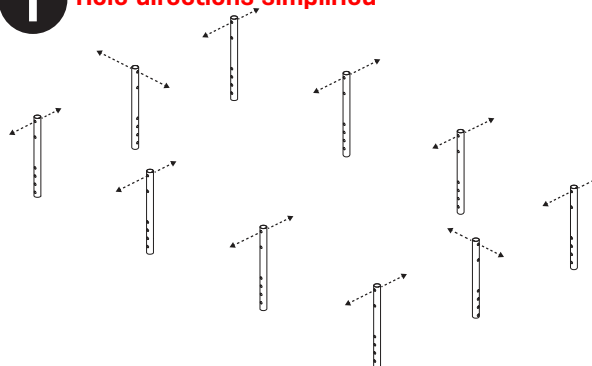
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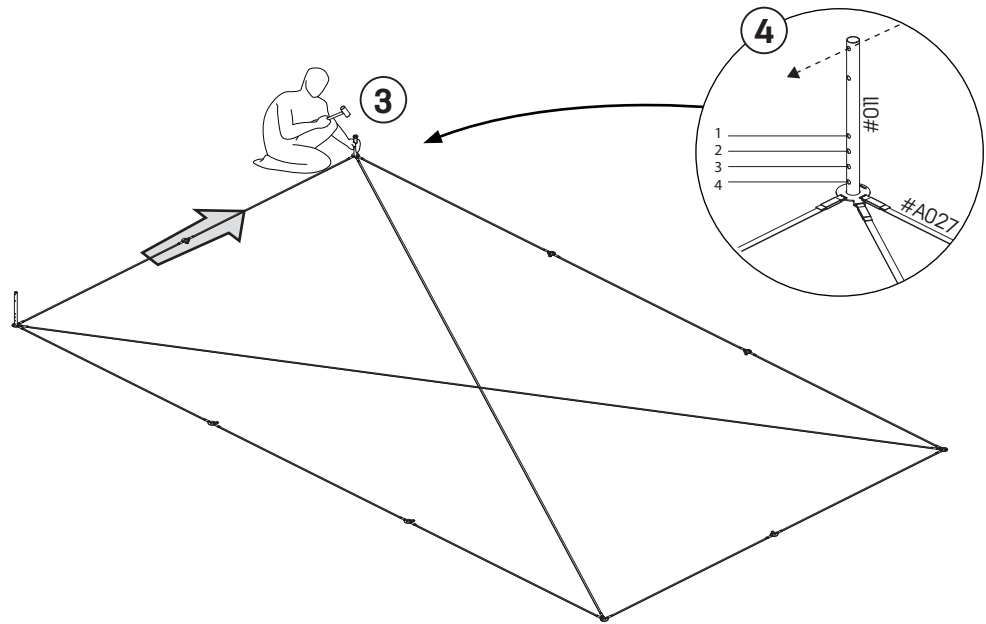
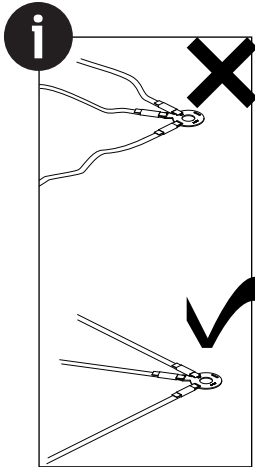
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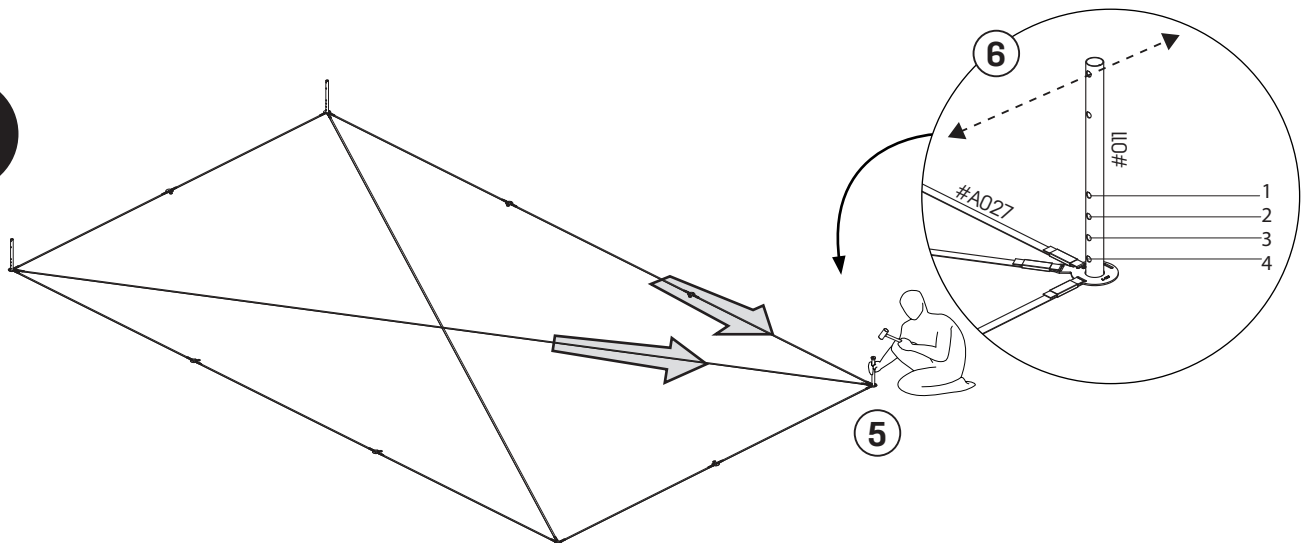
i Hole directions simplified



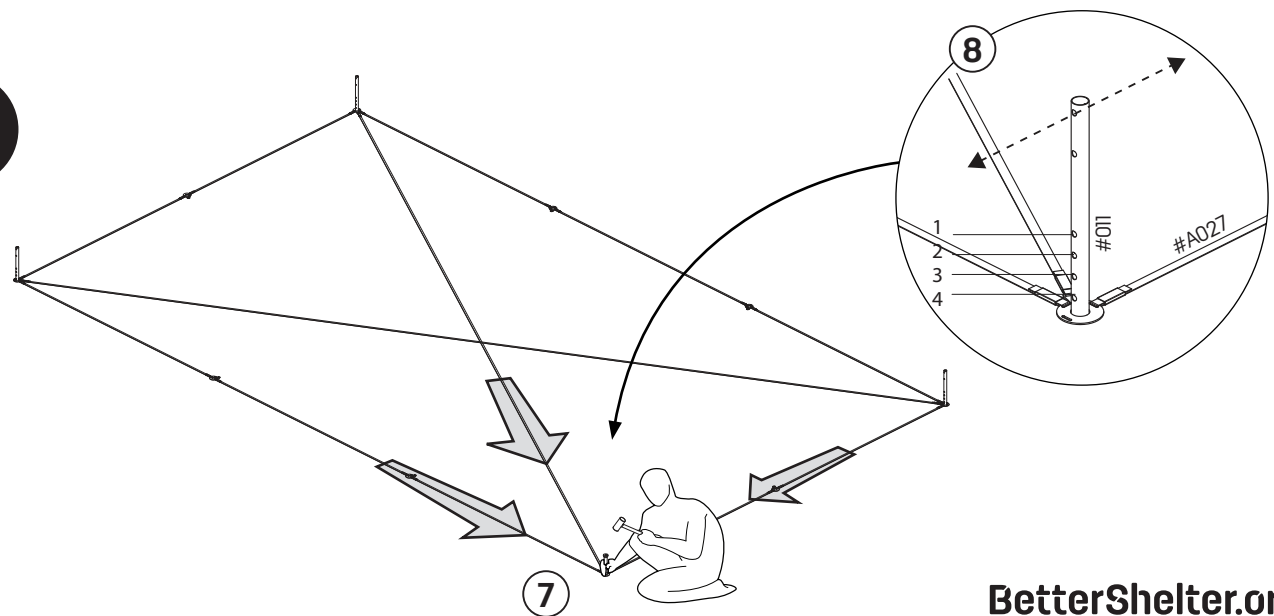
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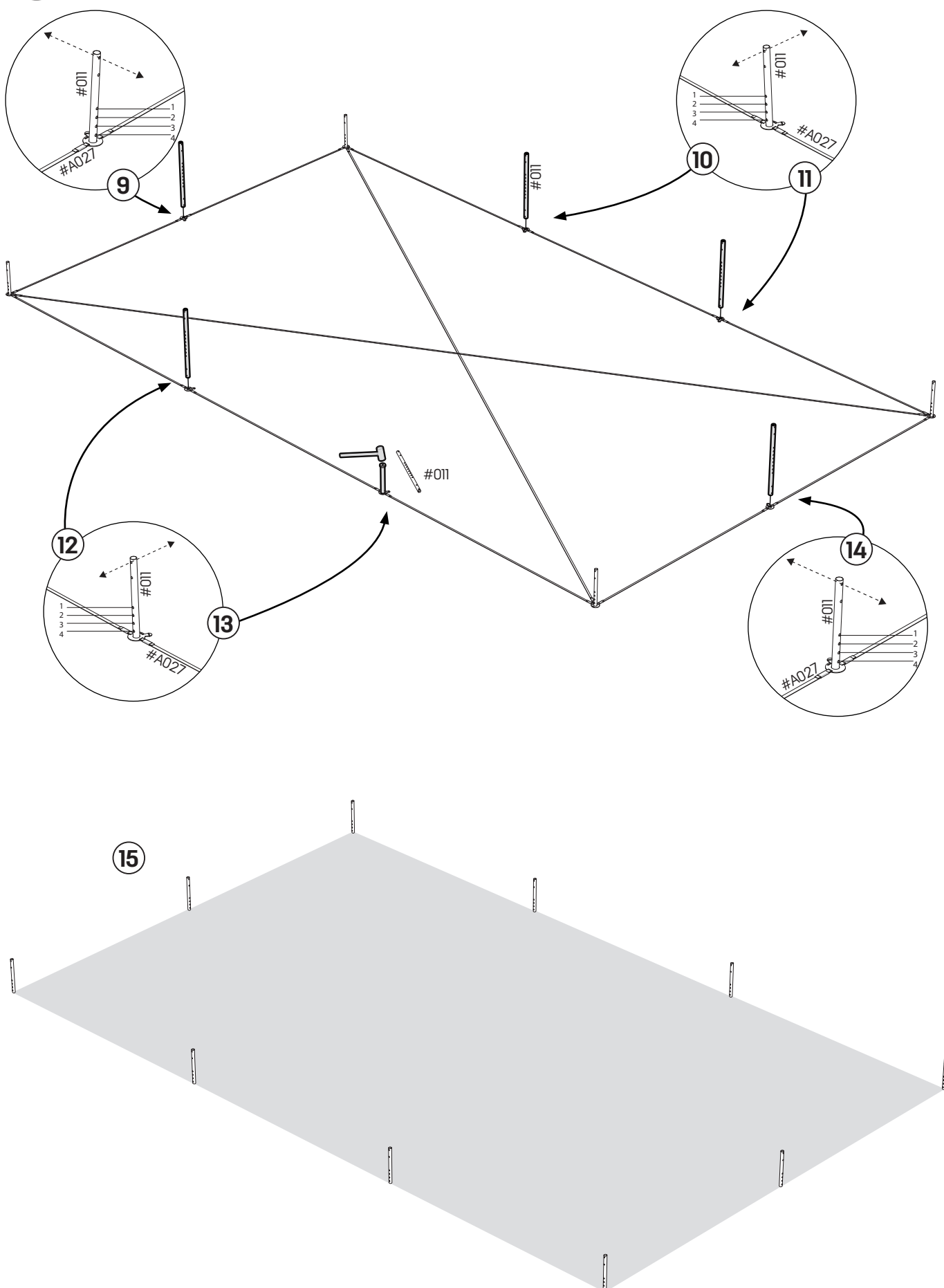
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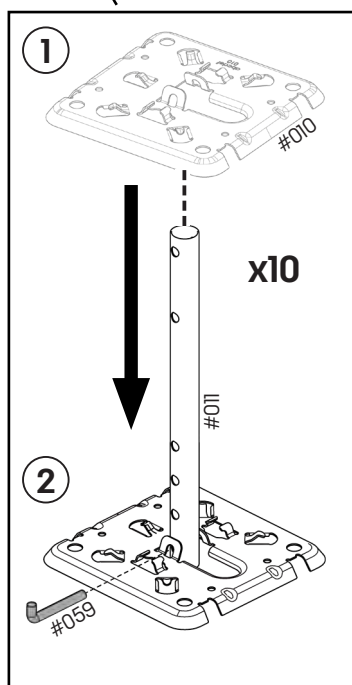
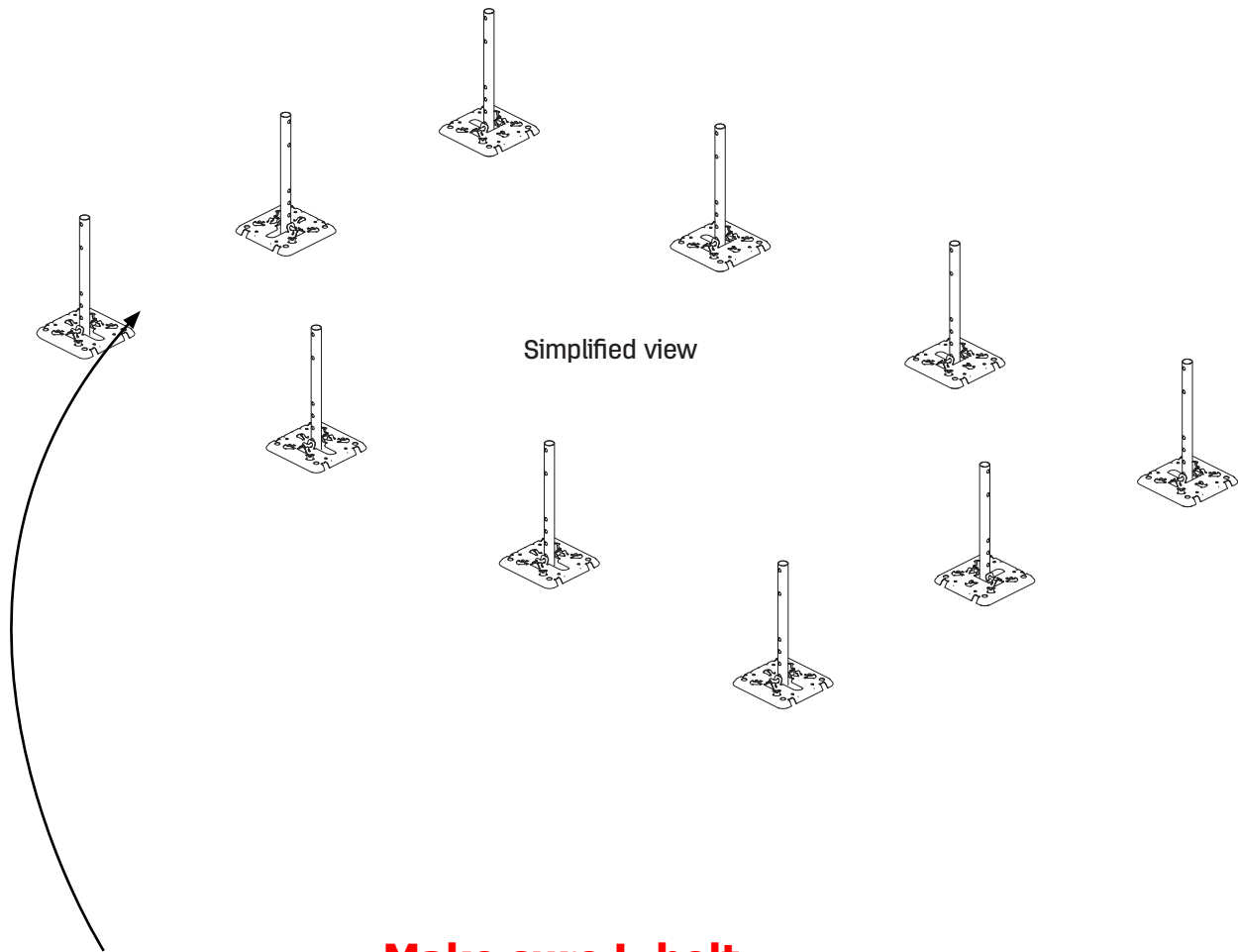
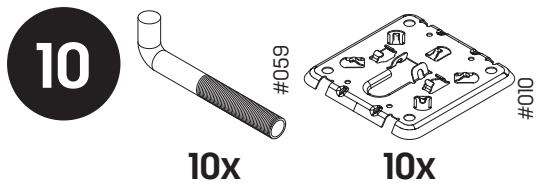


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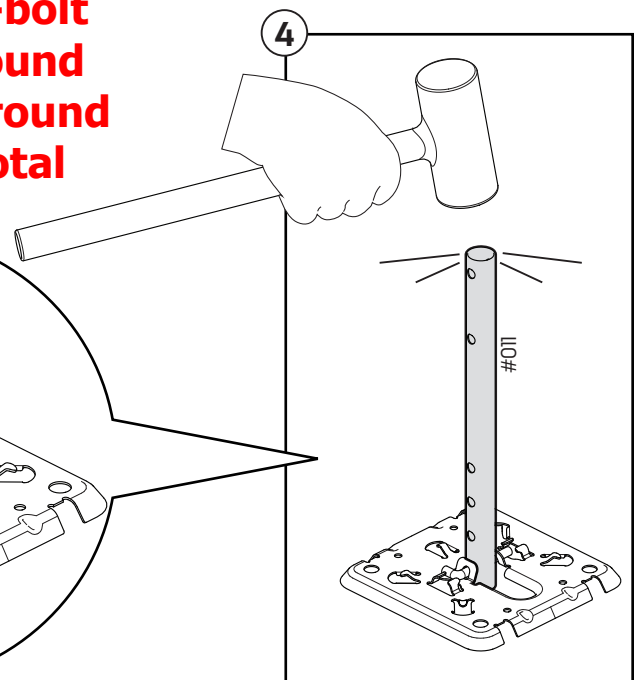
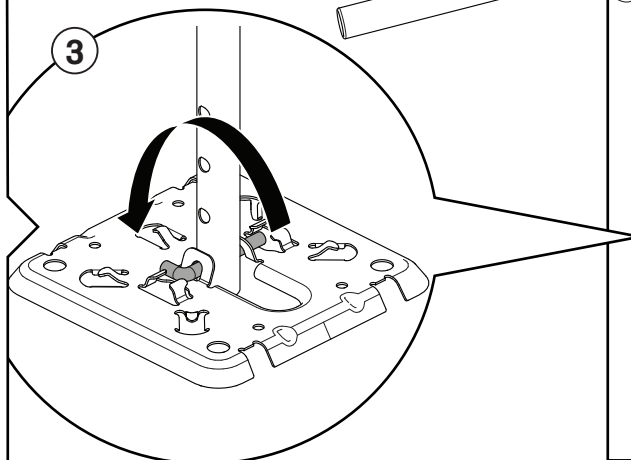
Repeat Step 5

5

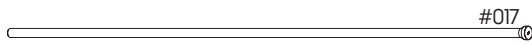




Make sure L-bolt connects ground plate with ground pipe. 10 in total



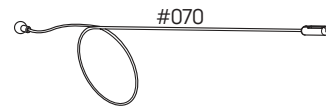
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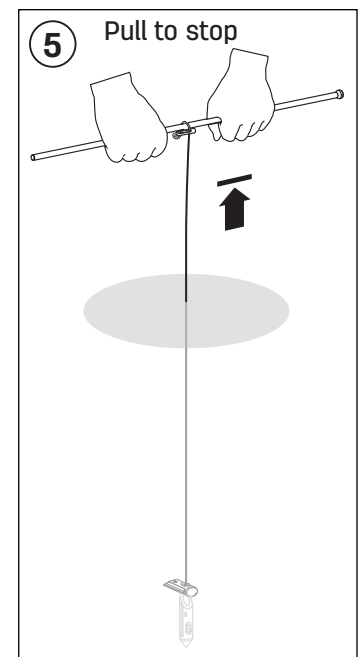
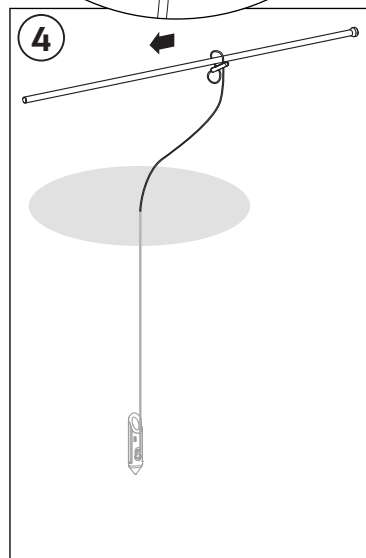
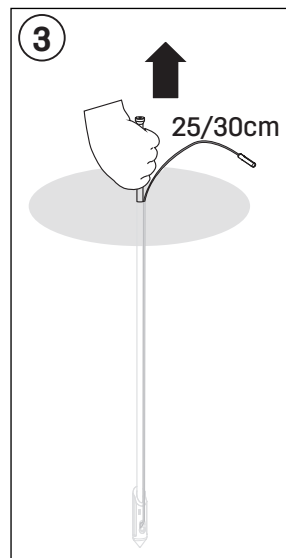
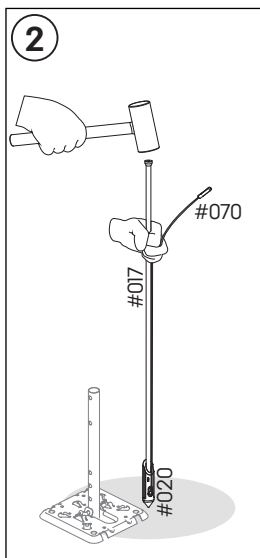
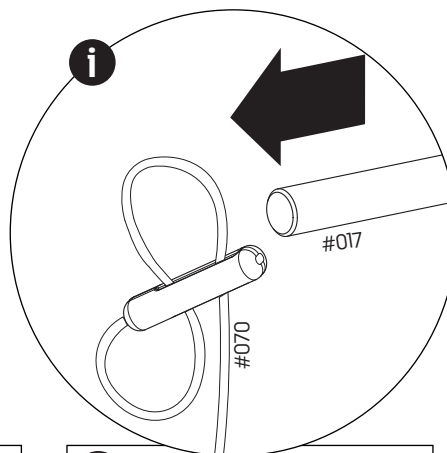
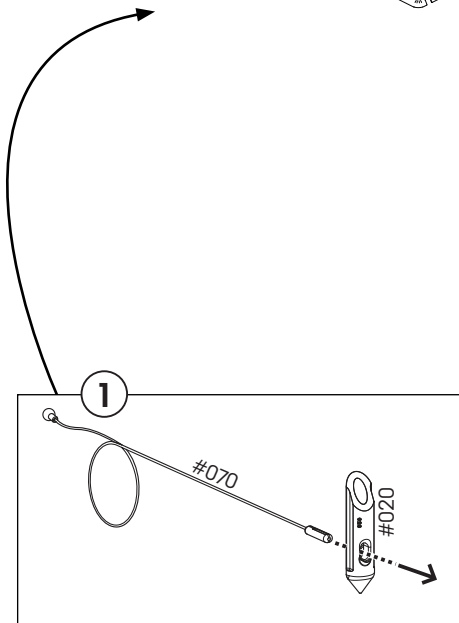
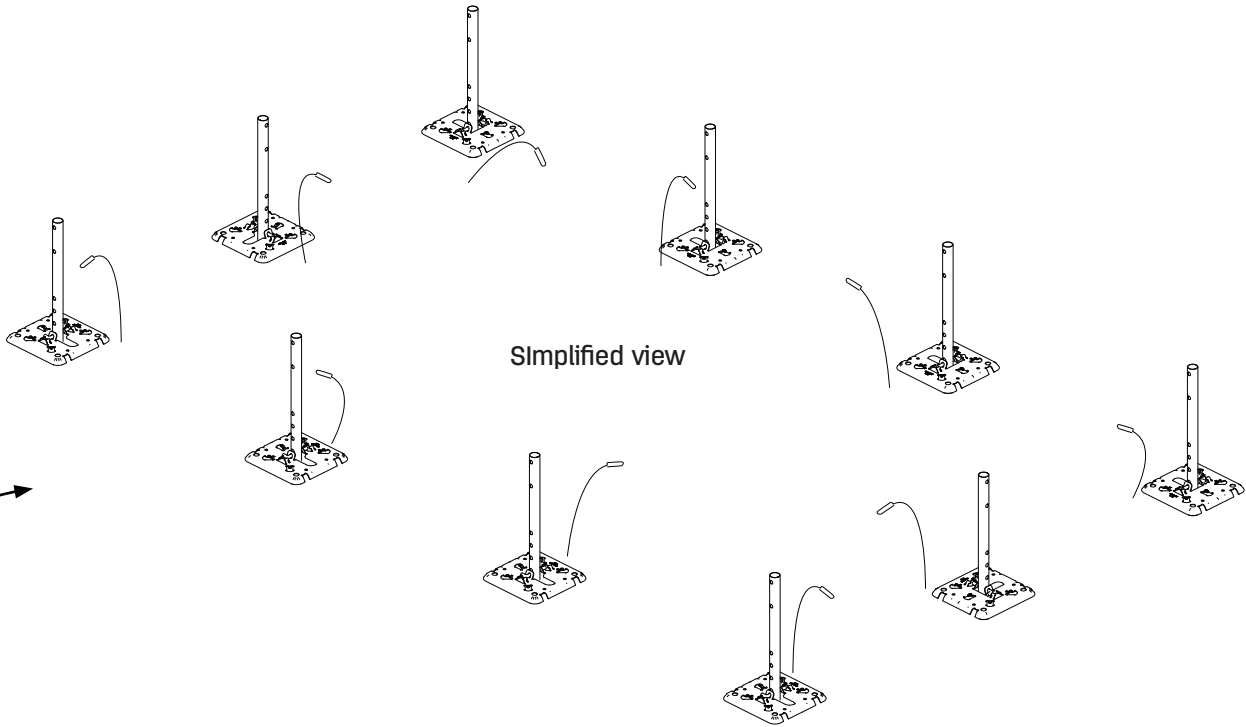
1x



10x

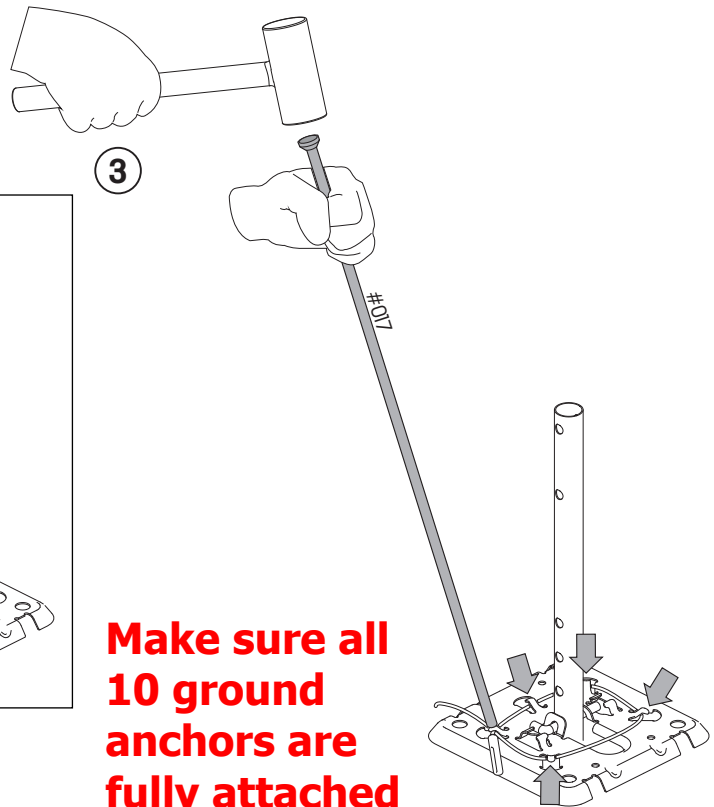
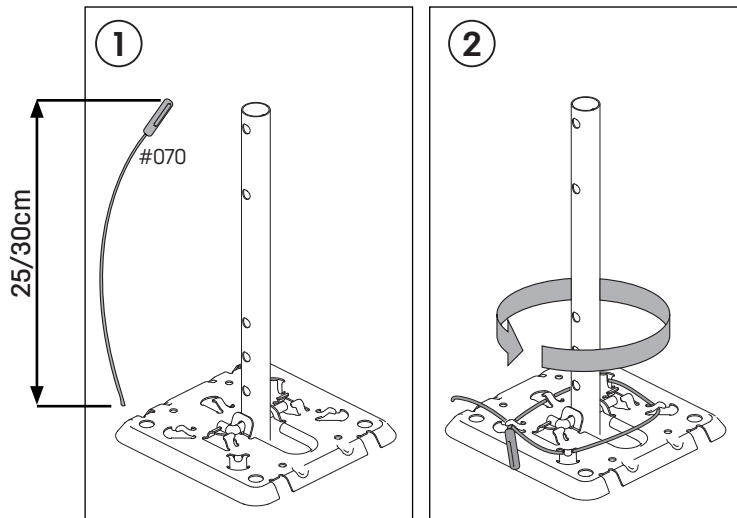


10x



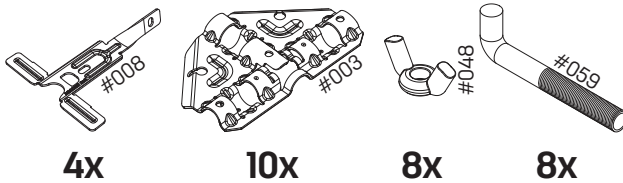
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12 x10

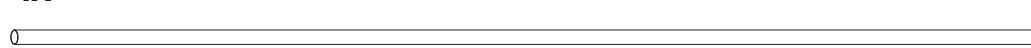
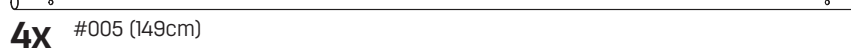
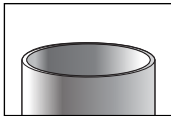


Make sure all 10 ground anchors are fully attached to each ground plate.

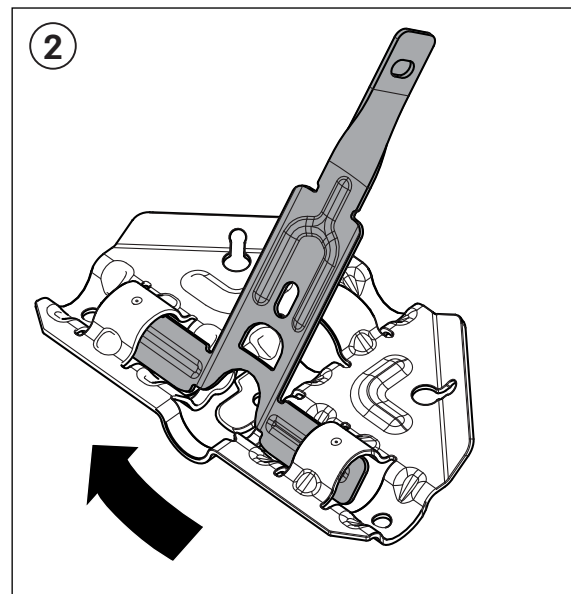
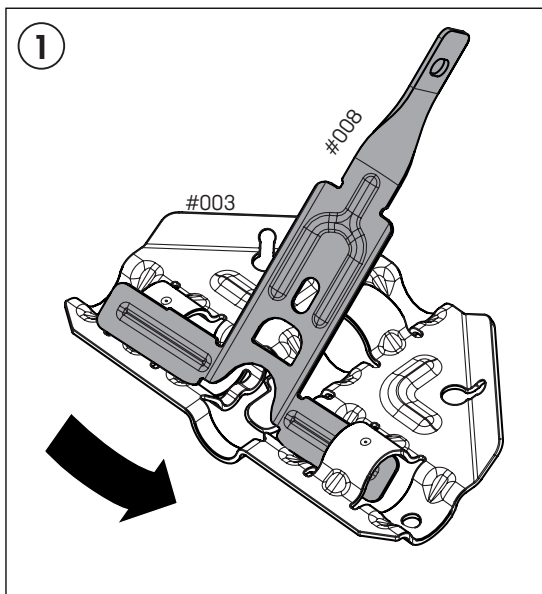
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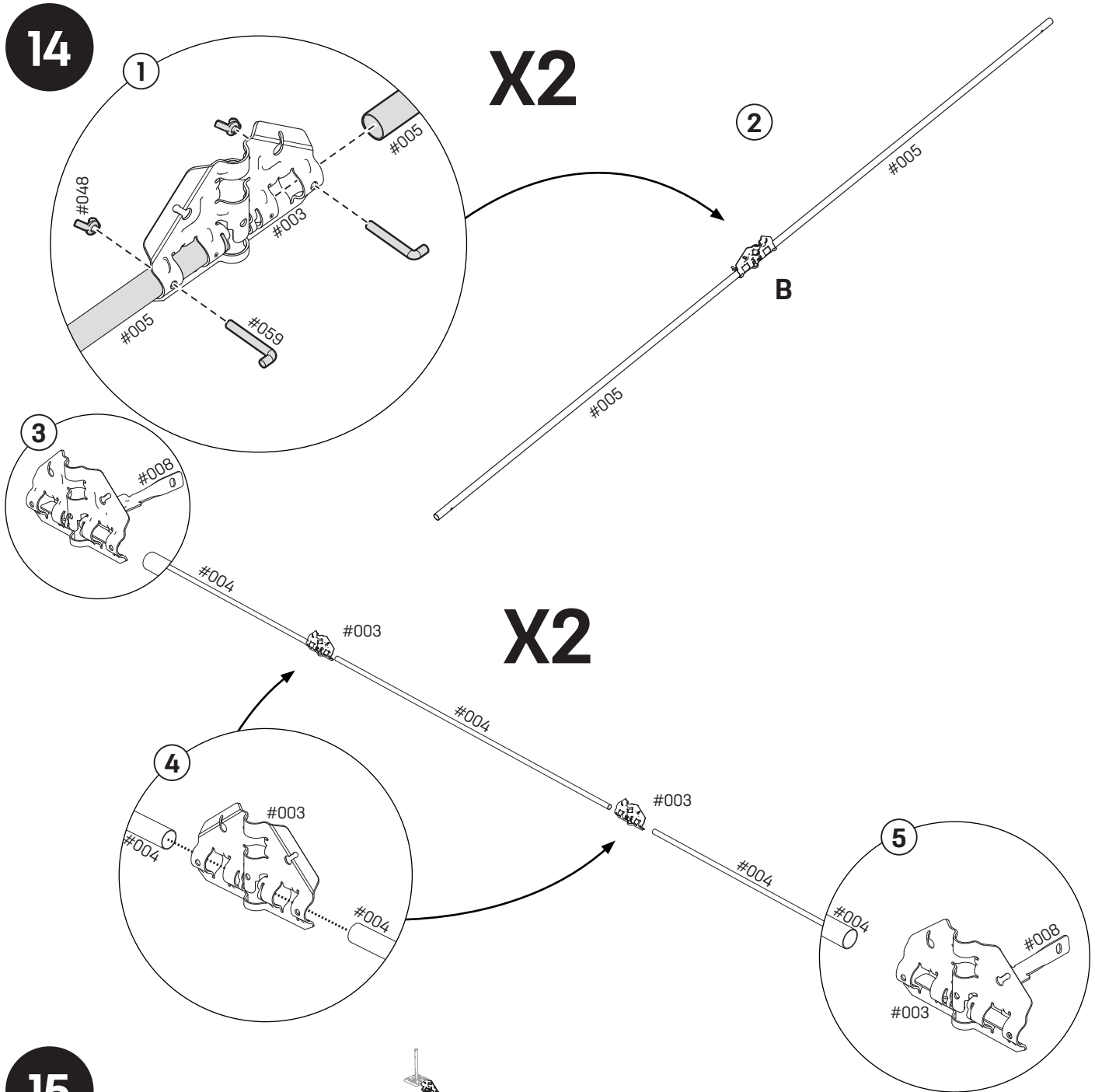
Steel



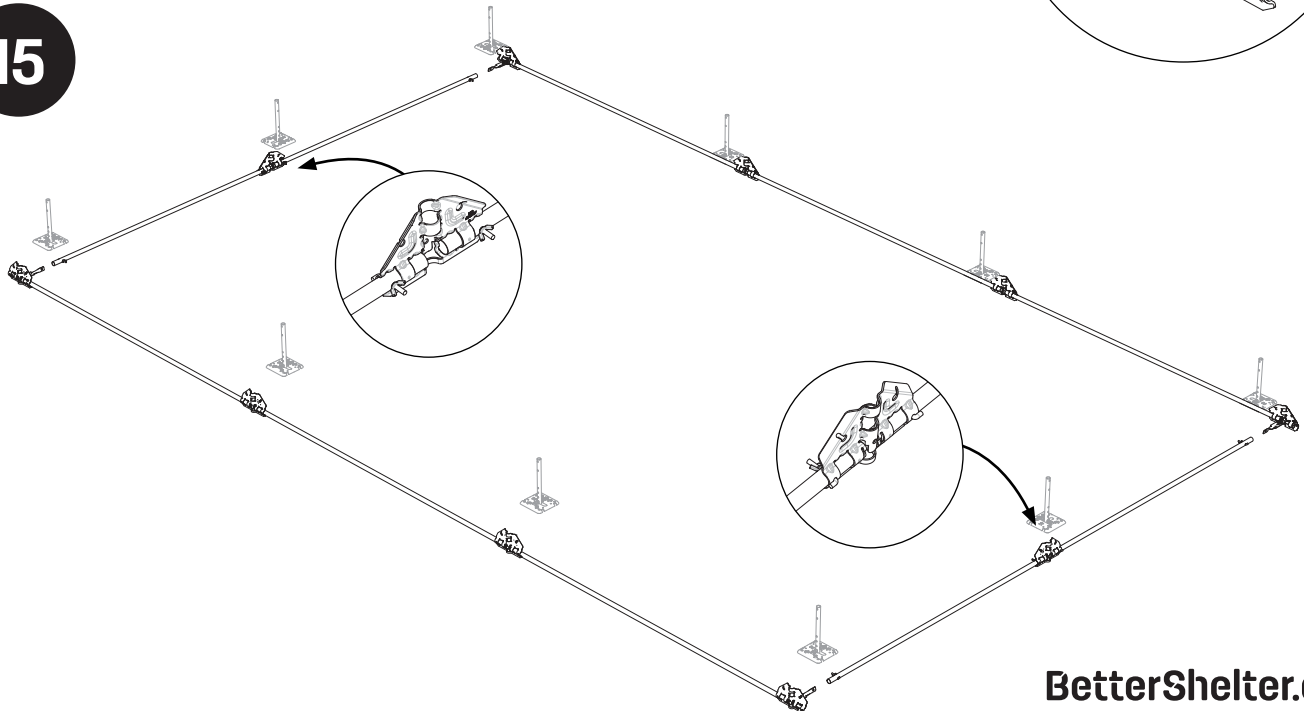
4x #005 (149cm)
6x #004 (180cm)



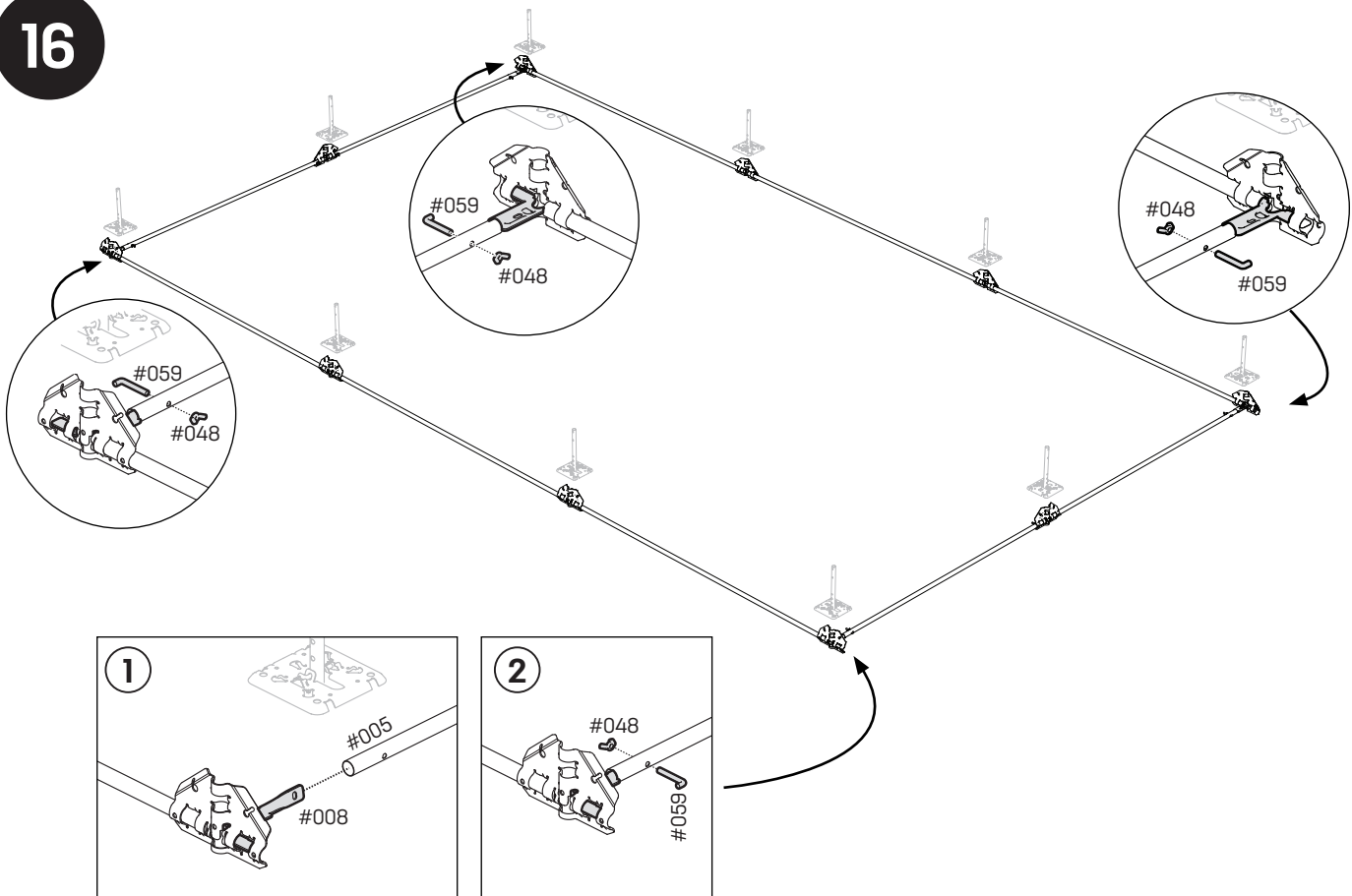
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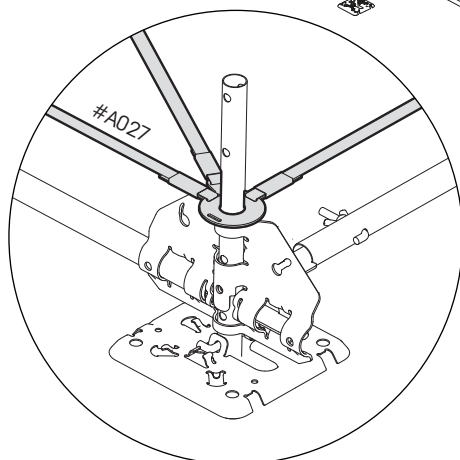
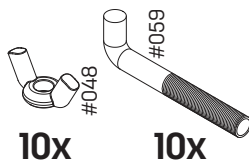
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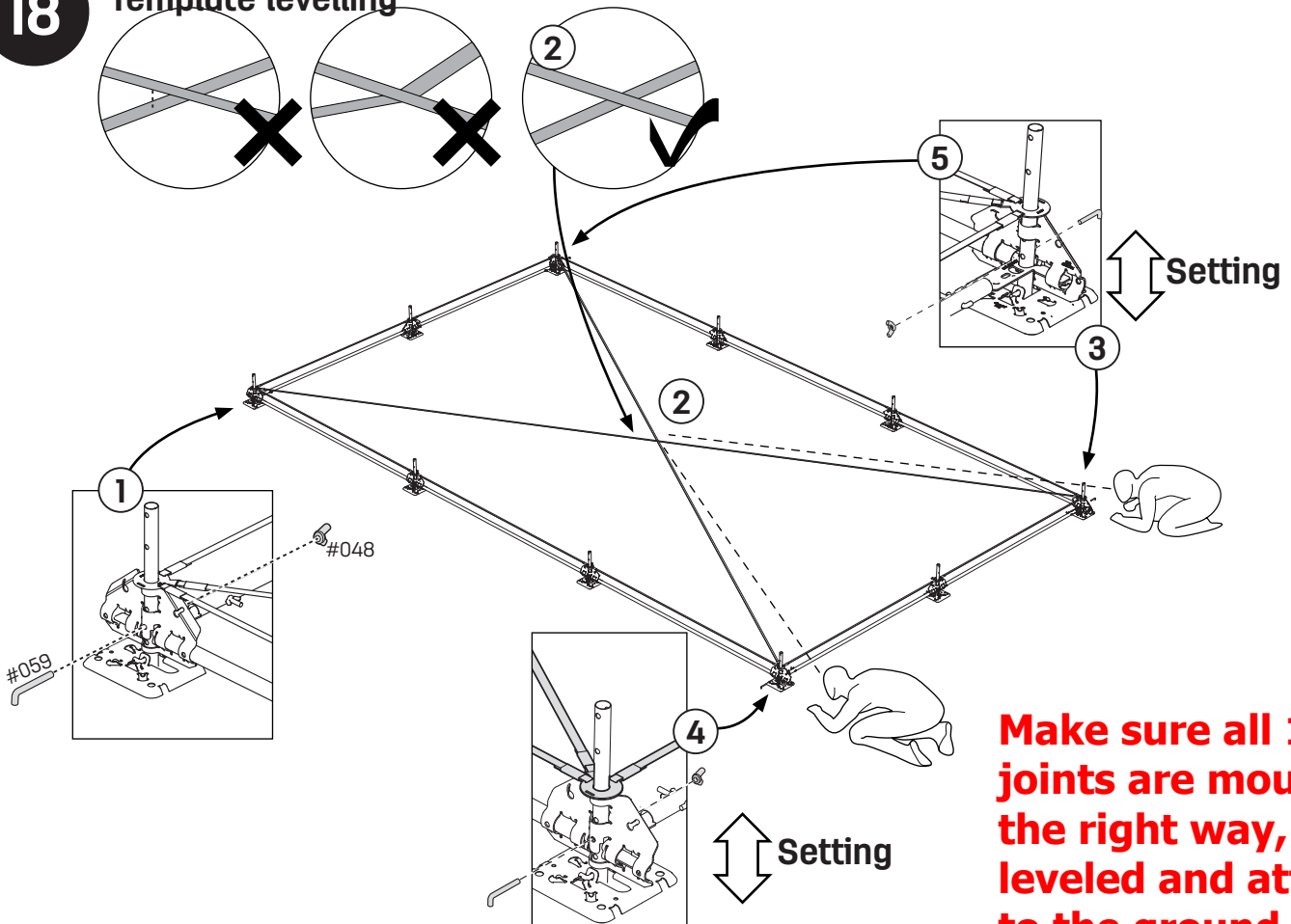


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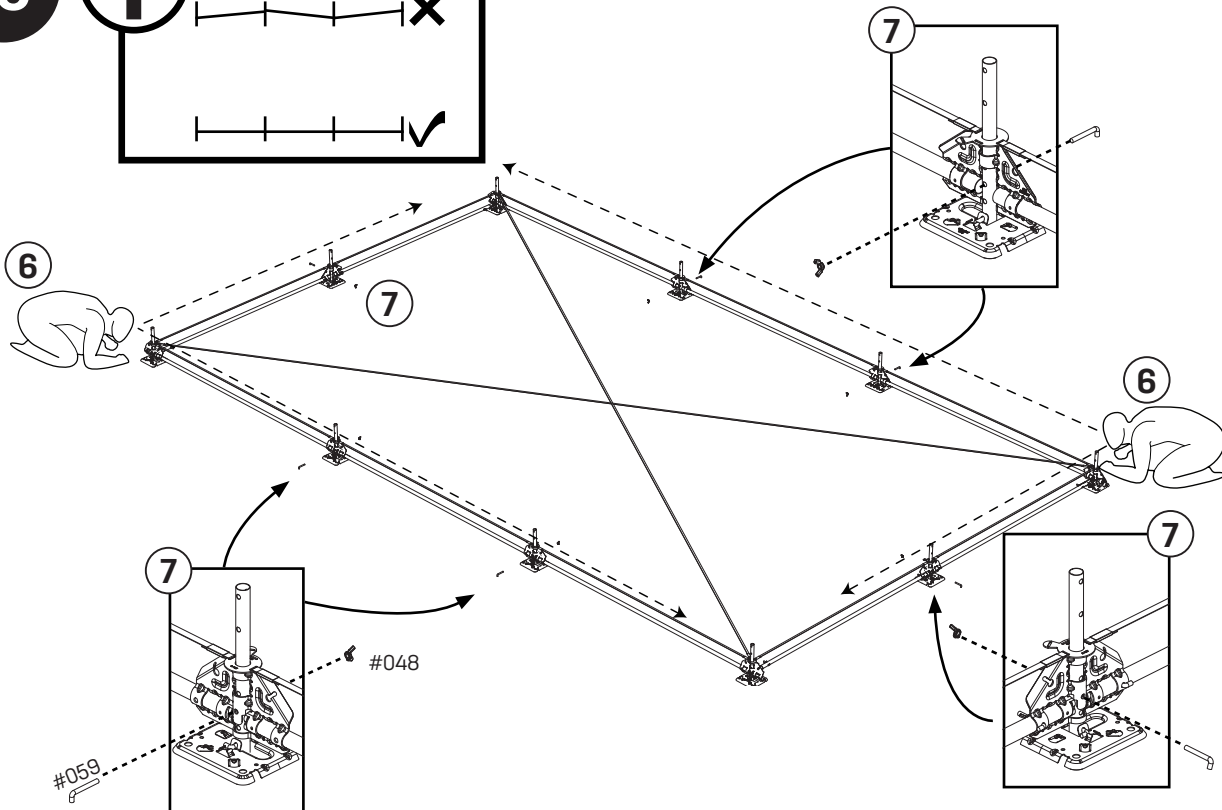
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Template levelling

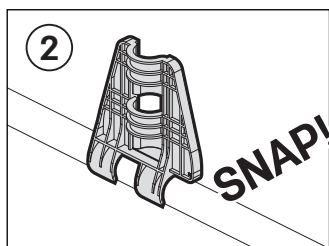
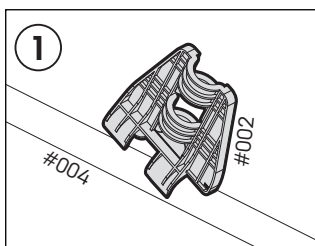
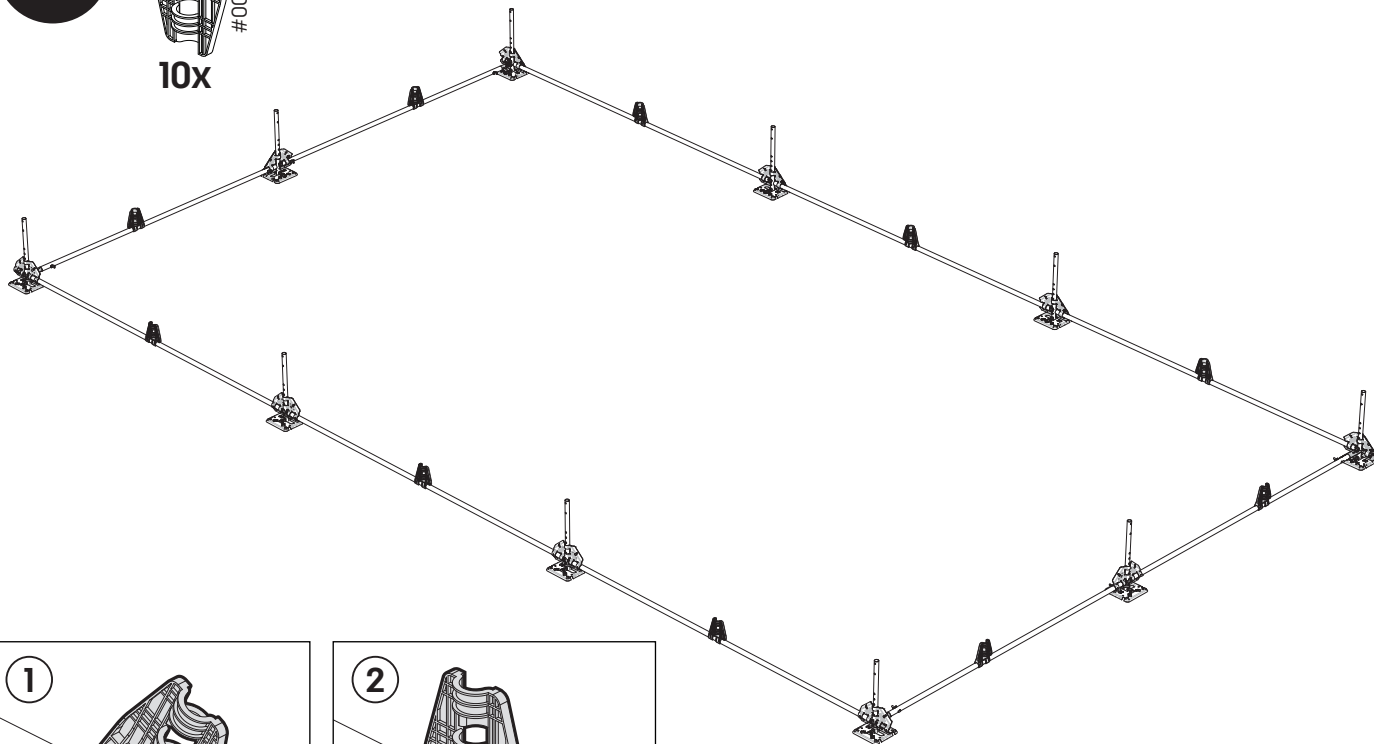


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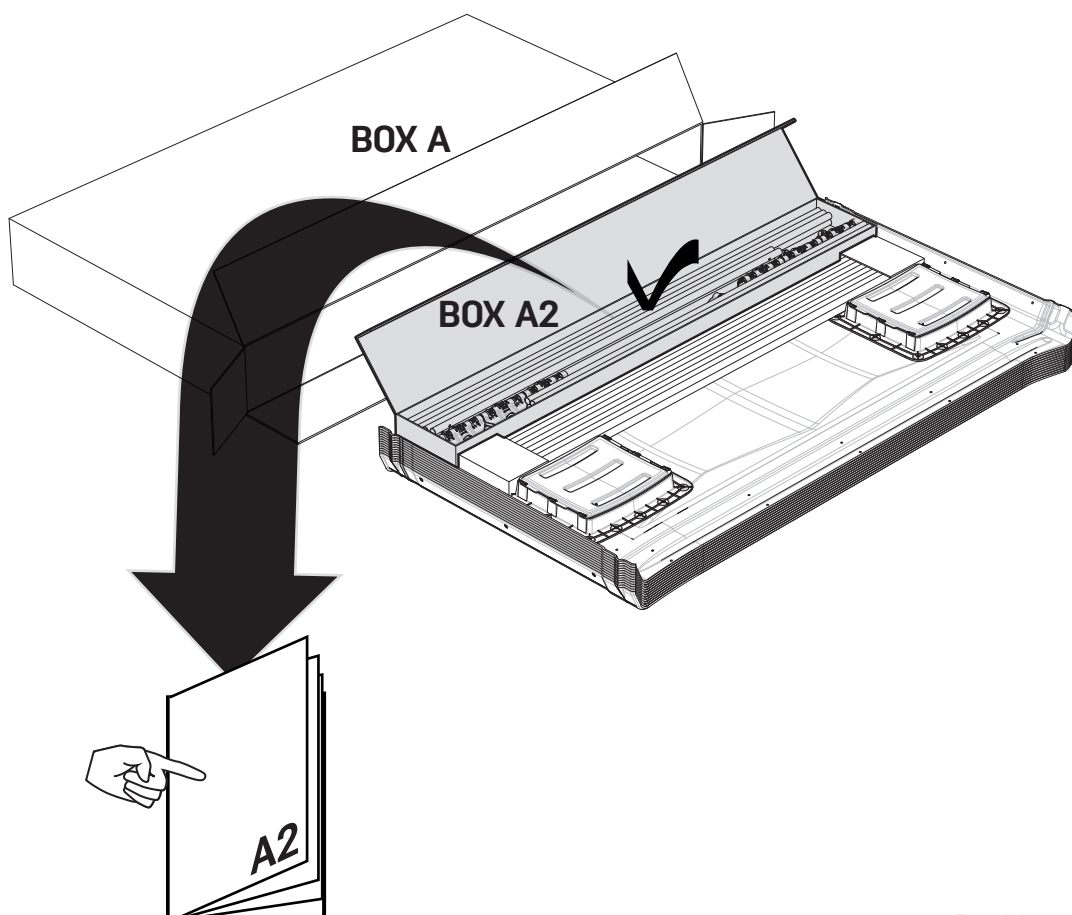
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20



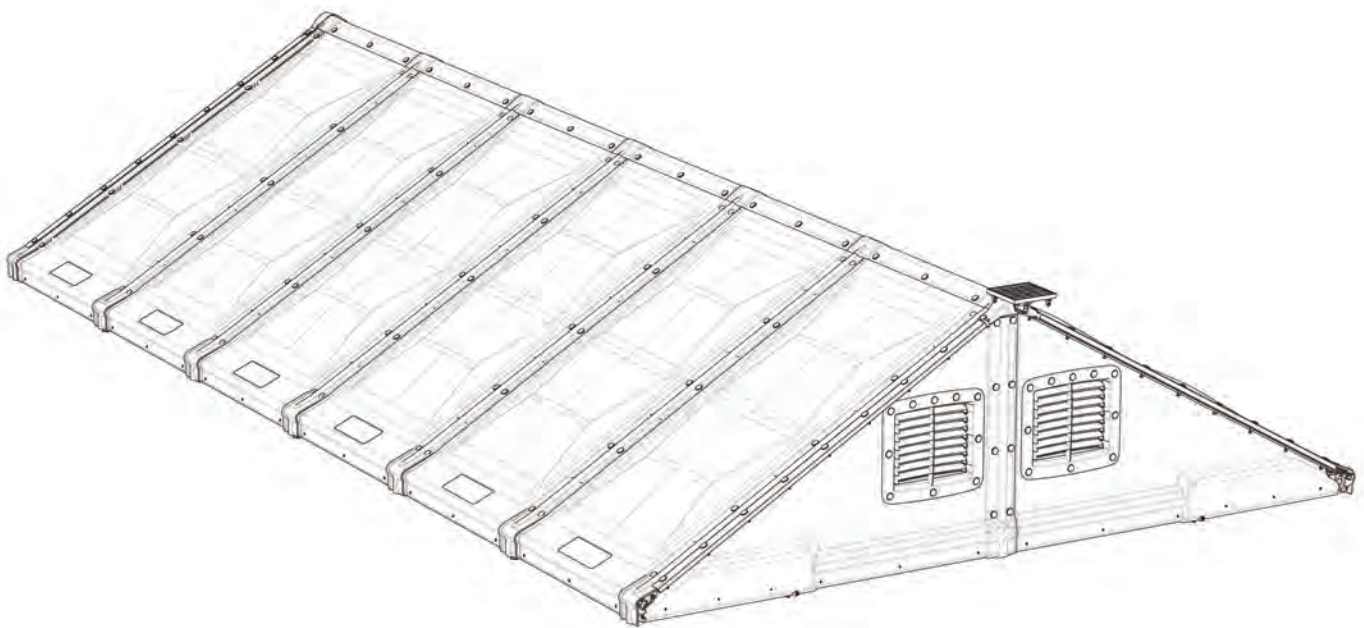
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Better Shelter A2 _ Roof Assembly Manual

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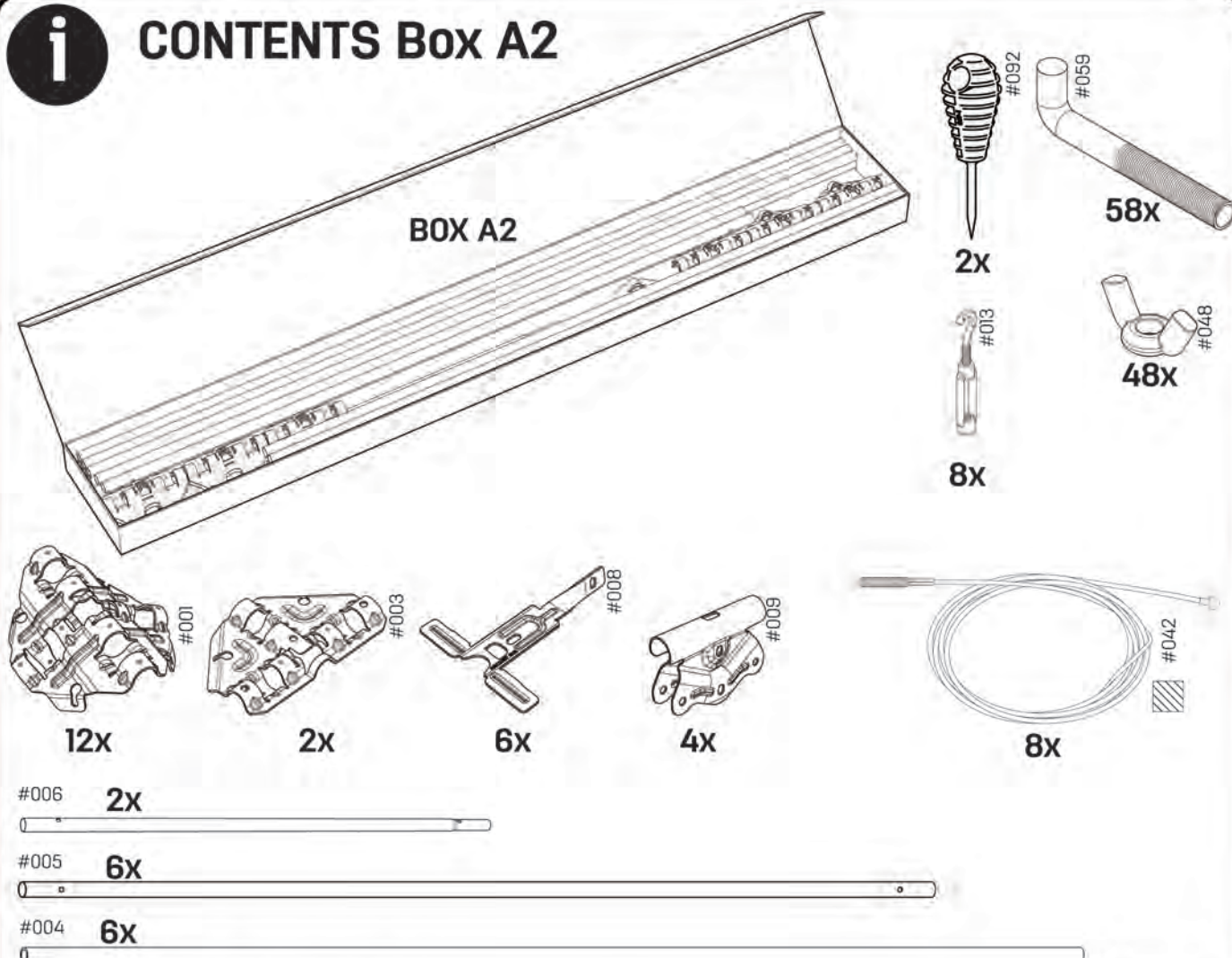
Manual de Montaje
Manuel de Montage
Montageanleitung
Manuale di Montaggio



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CONTENTS Box A2



A Box Main + A1

#004 17x



22x

Legend

1 2

Main steps of assembly

① ② ③ ④

Sequence of assembly

----->

Insertion path

2x

Number of parts in step or total

#004

Part ID number

X2

Number of repetitions



Movement direction



Active part



Information



Detail placement

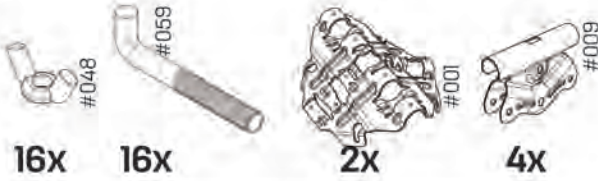


Rotate part or move to opposite part of shelter



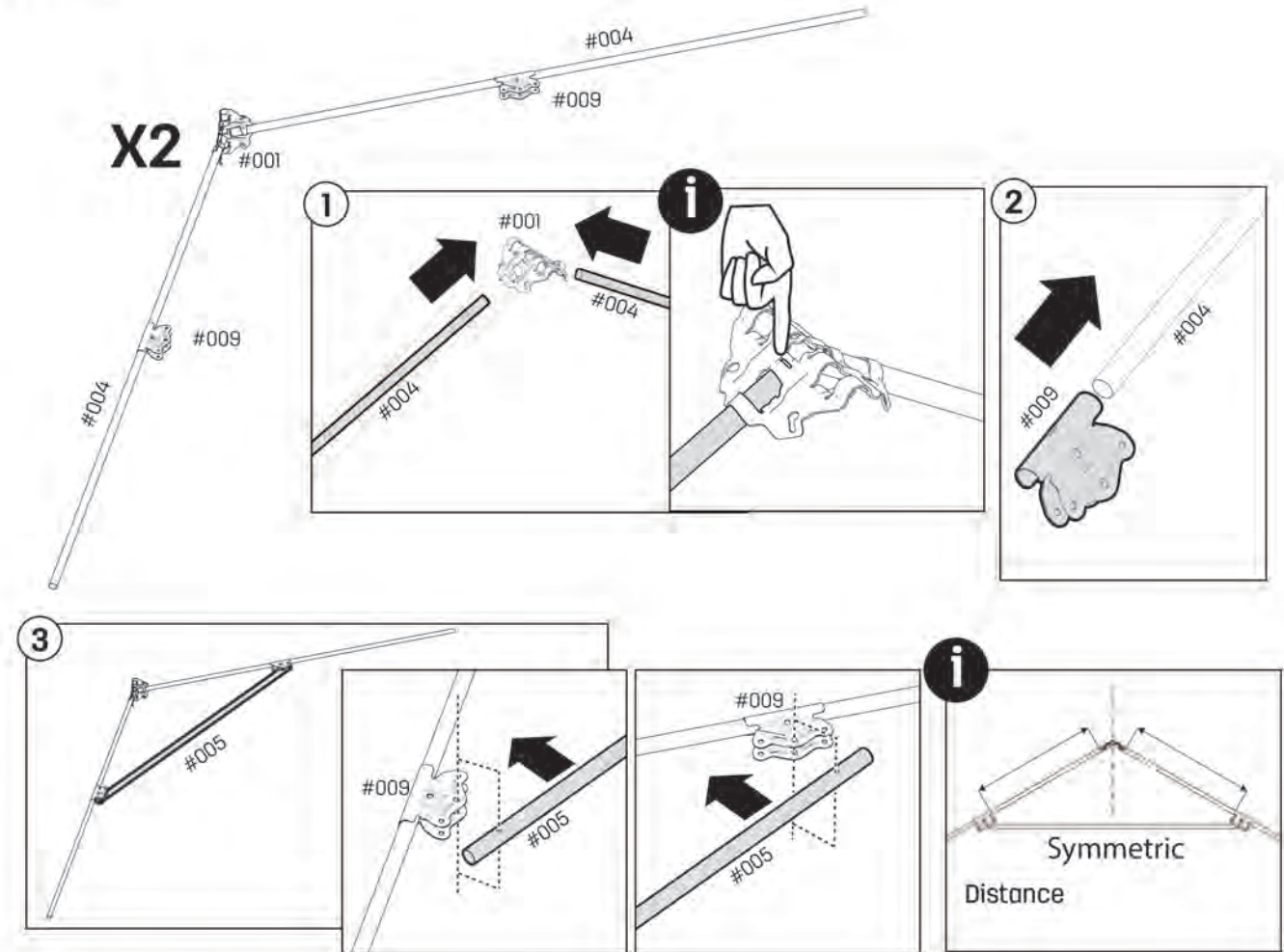
Important detail or position

22

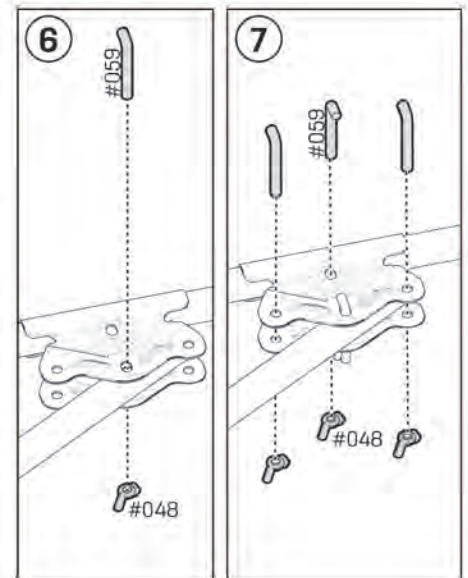
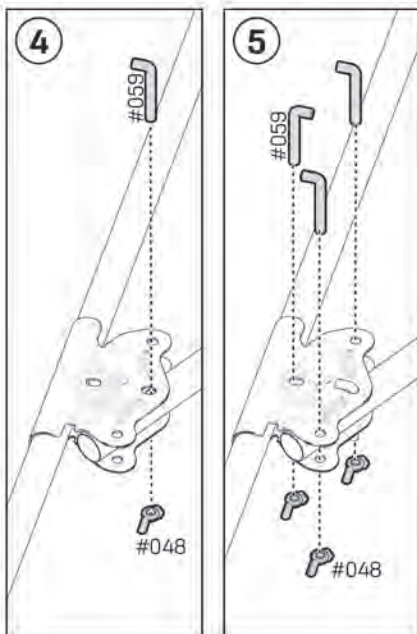


4x #004

2x #005



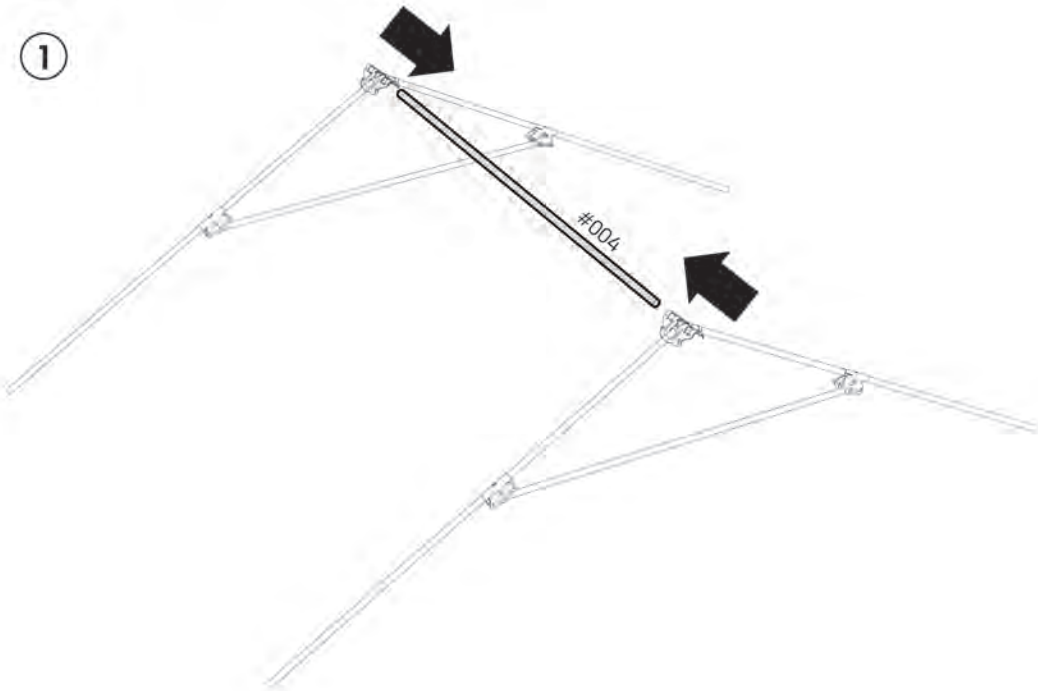
Attach 4 L-bolts with wing nuts in each roof truss joint.



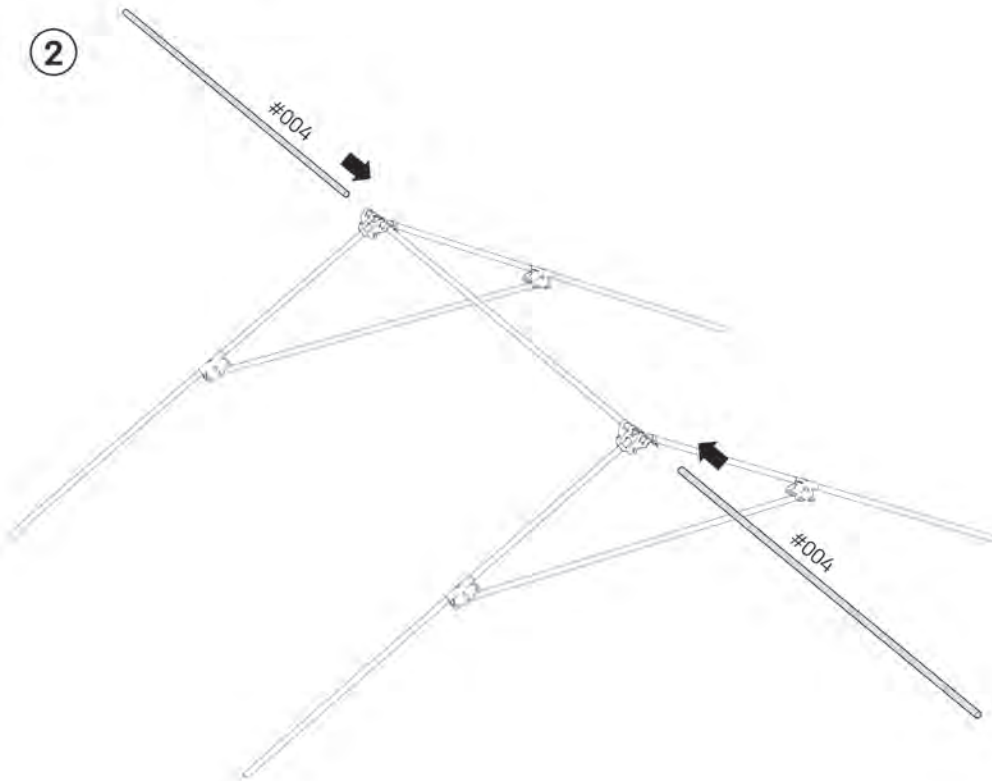
23

3x #004

①



②



24

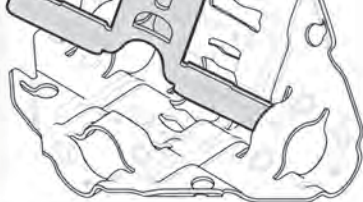


4X #004

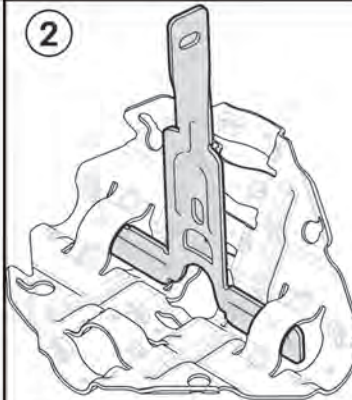
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X6

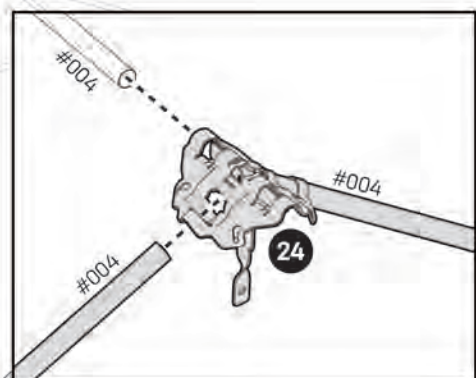
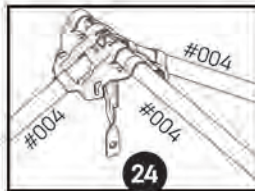
#008



2



25



26



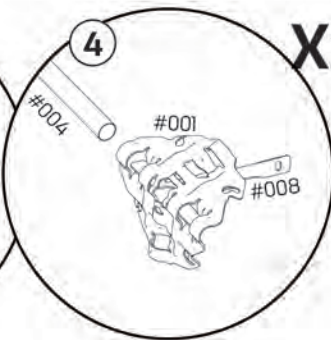
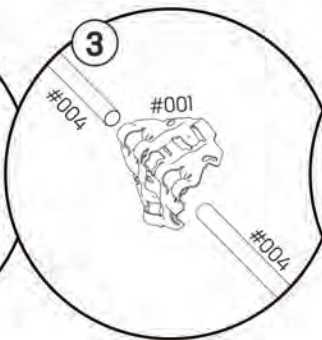
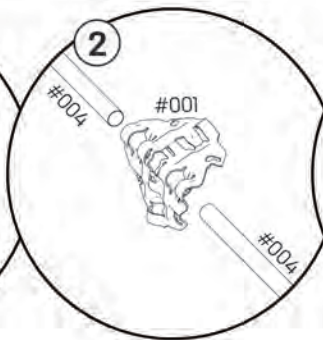
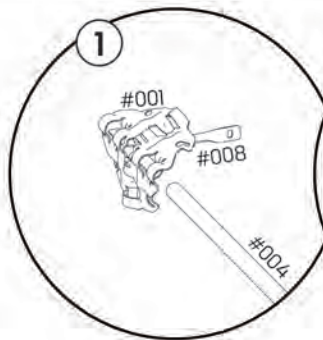
4x



24

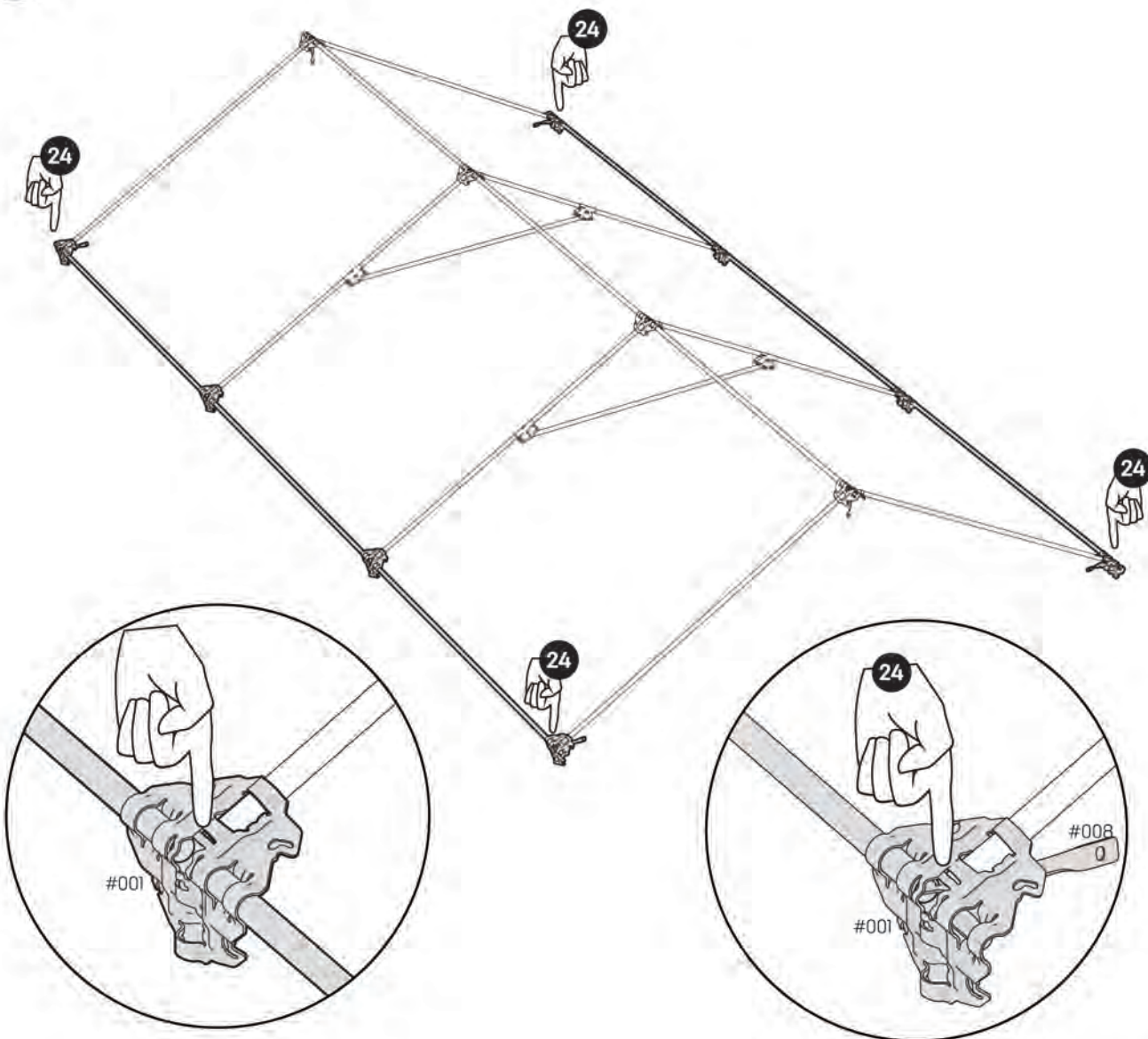
4x

6x #004



X2

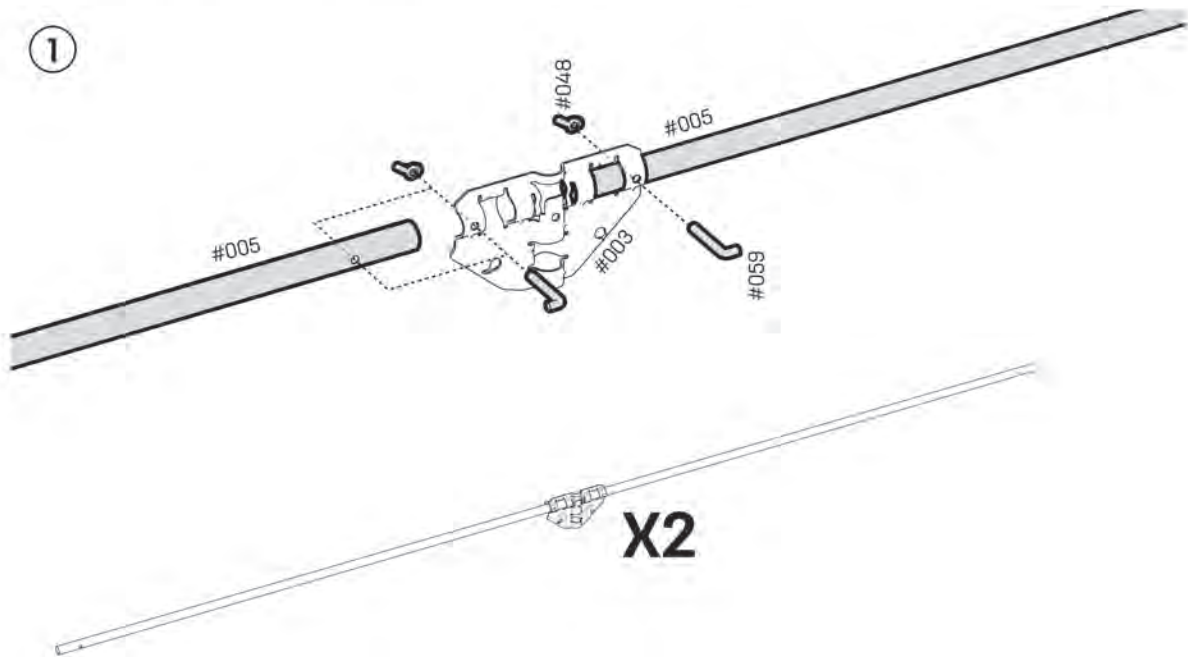
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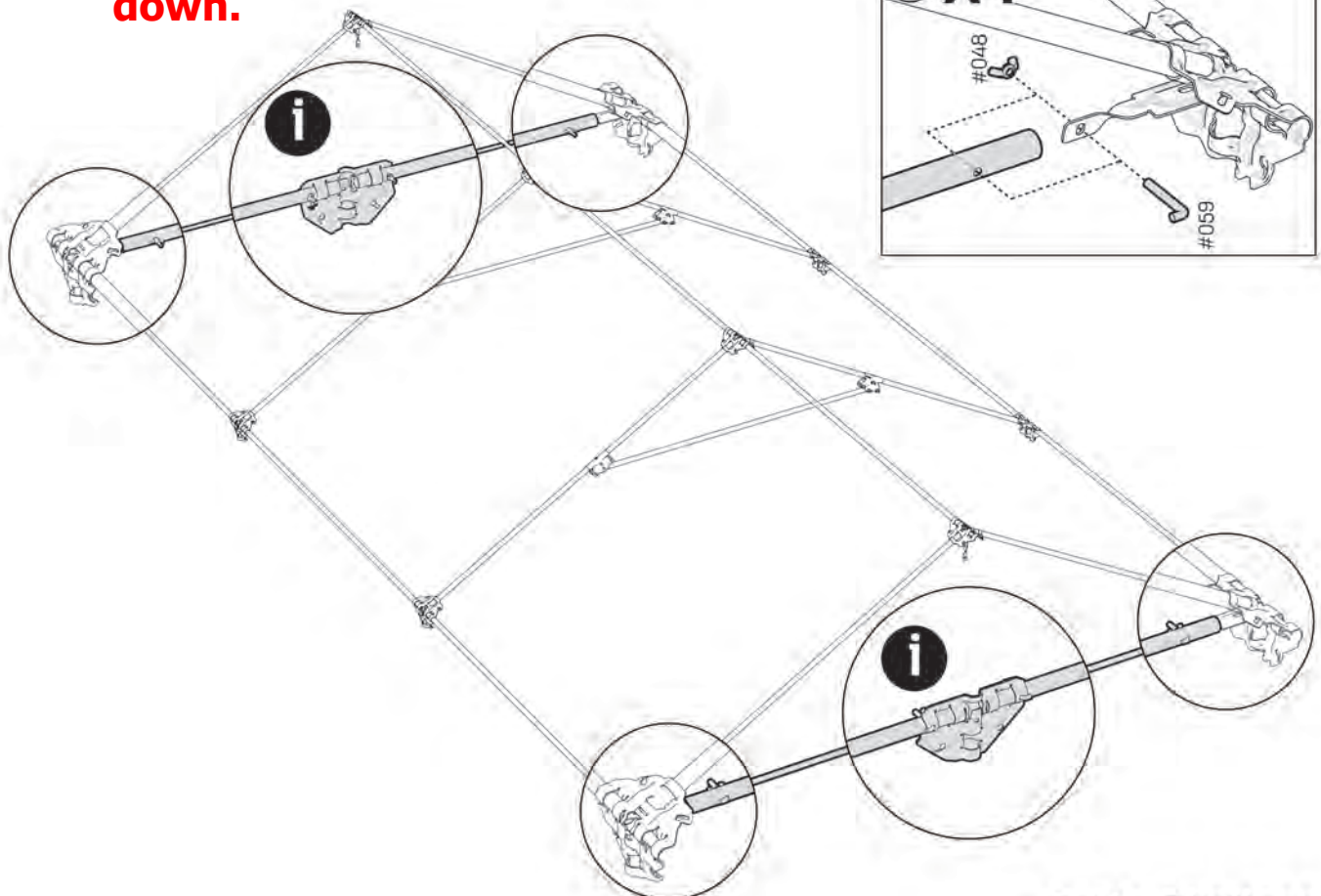
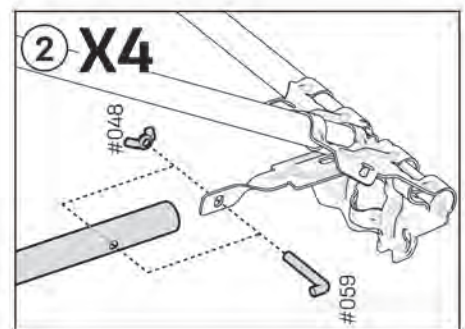
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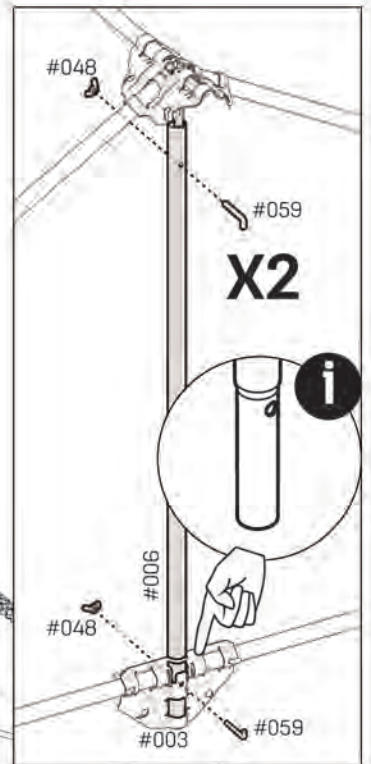
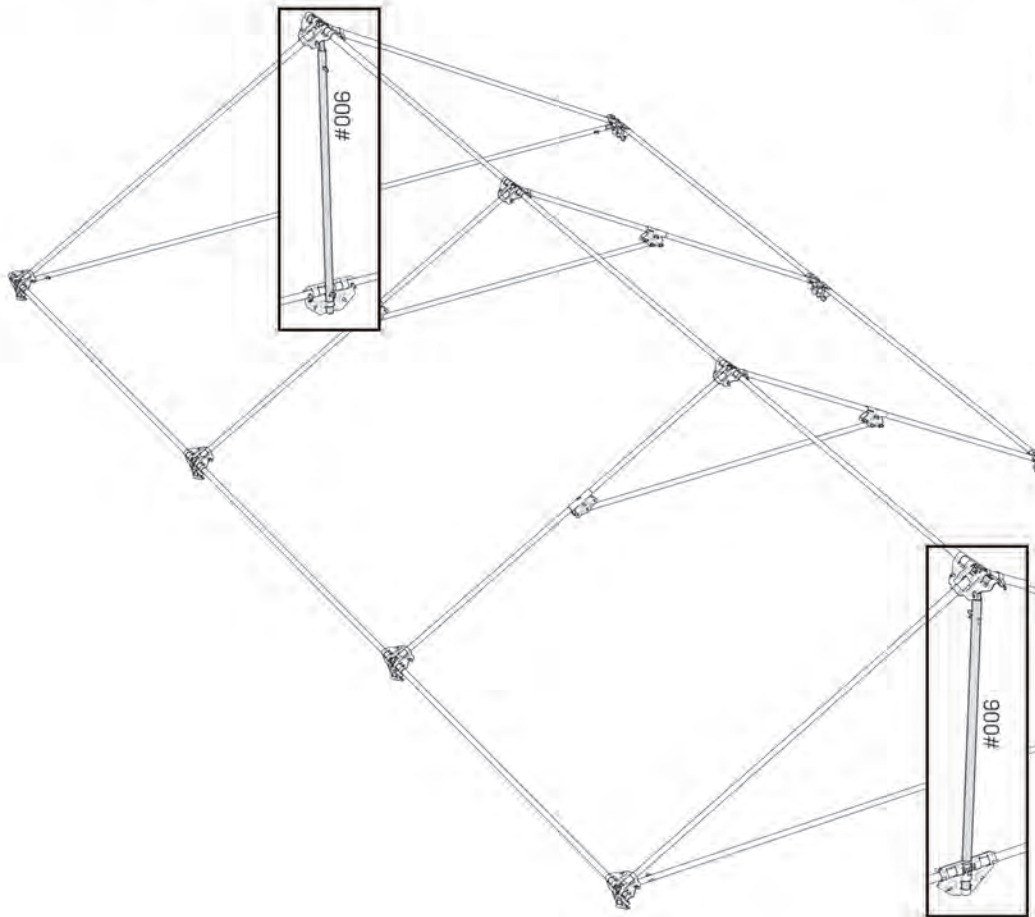
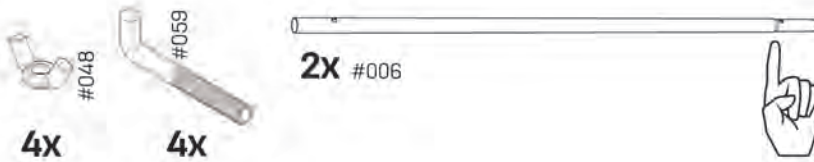
1



Make sure the centre joint is mounted with the correct orientation. Pointy side down.

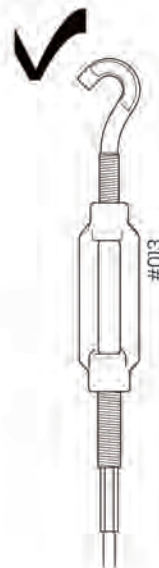
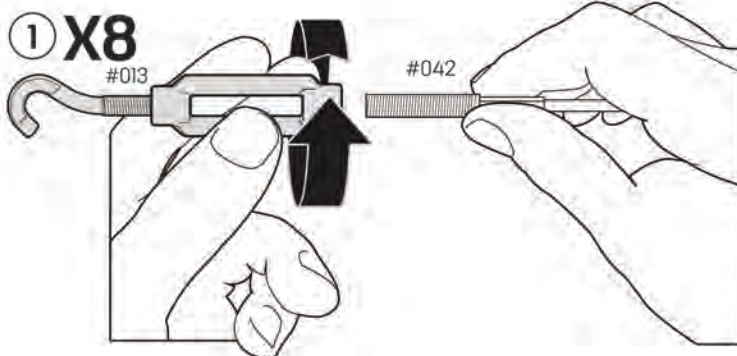
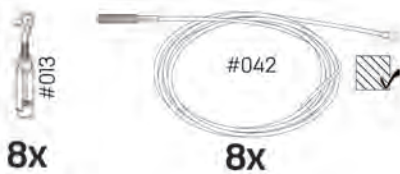


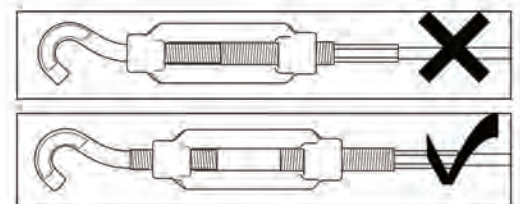
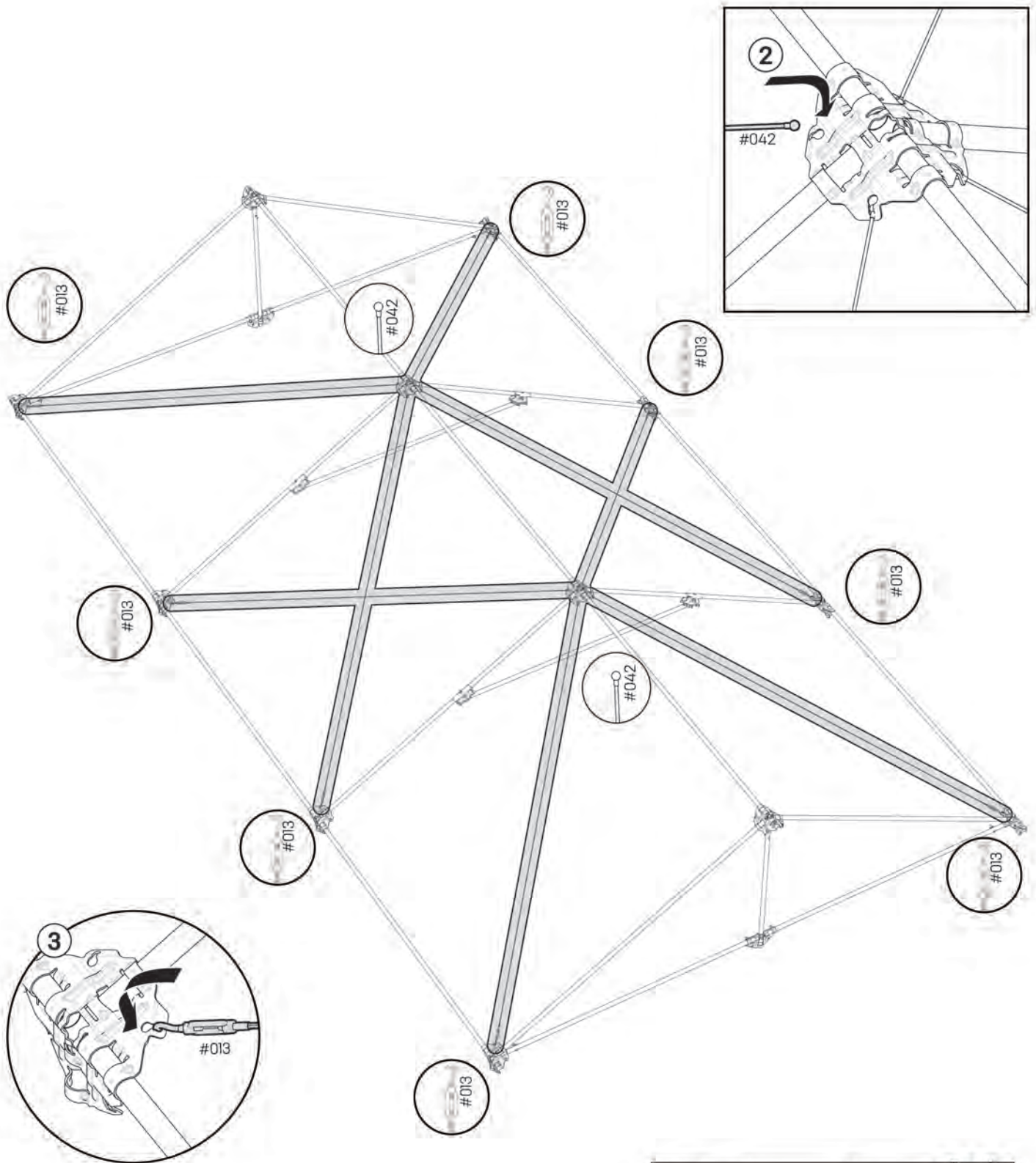
29



Make sure L-bolts are inserted with wing nuts.

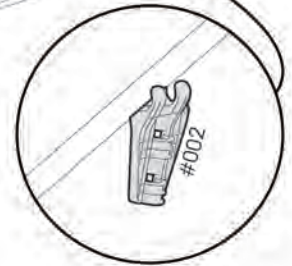
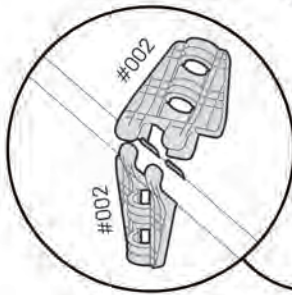
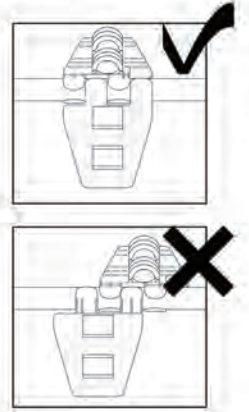
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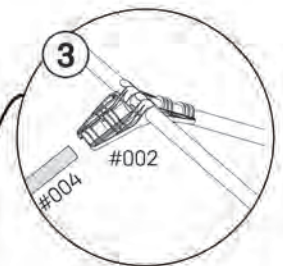
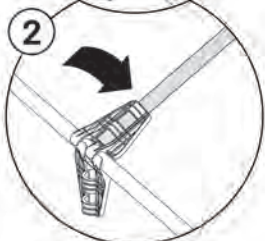
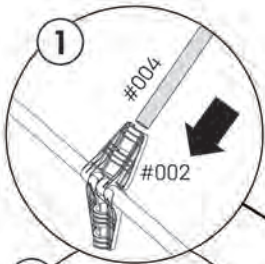


i Do not tension fully, just reduce slack evenly across structure.

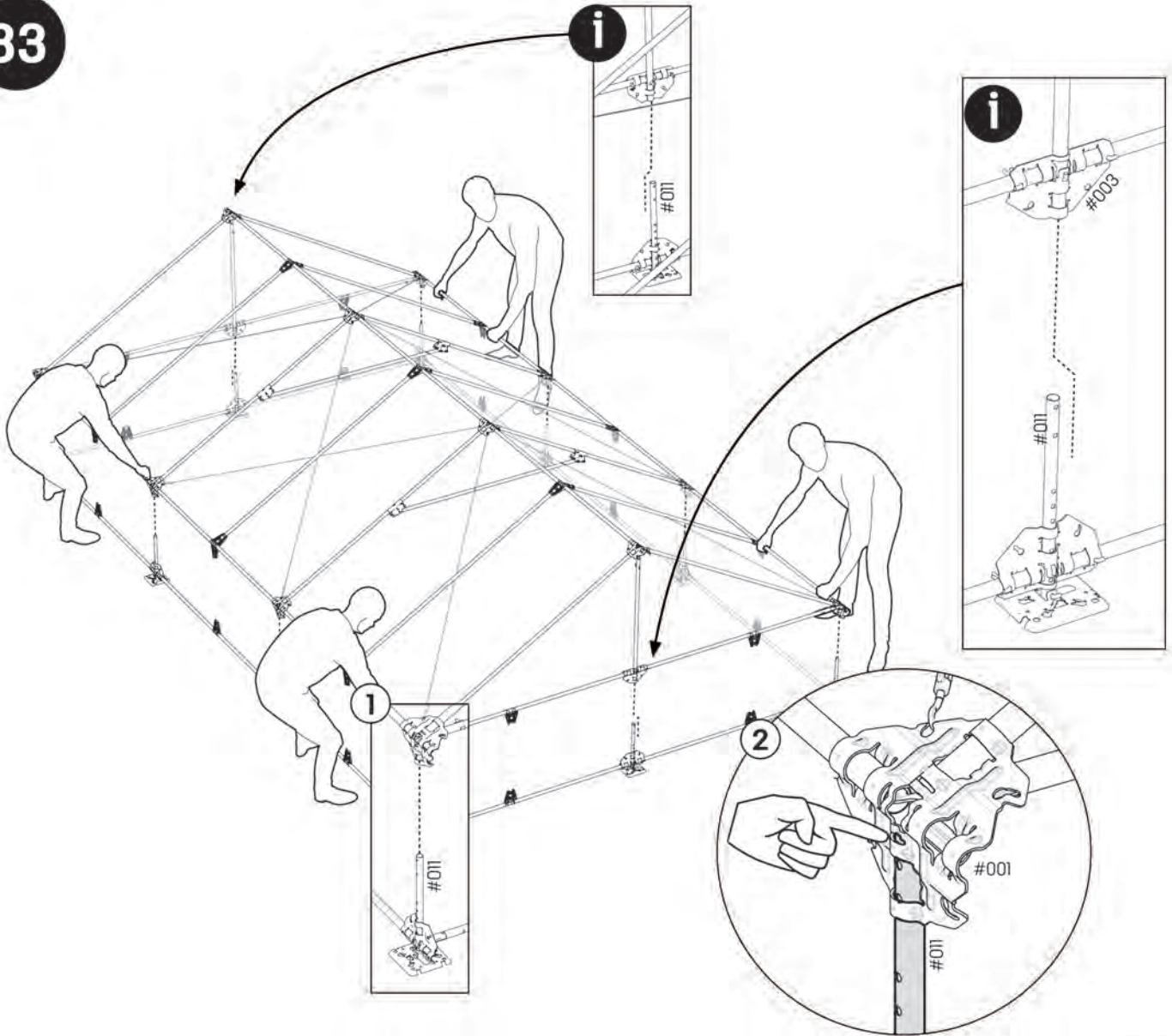
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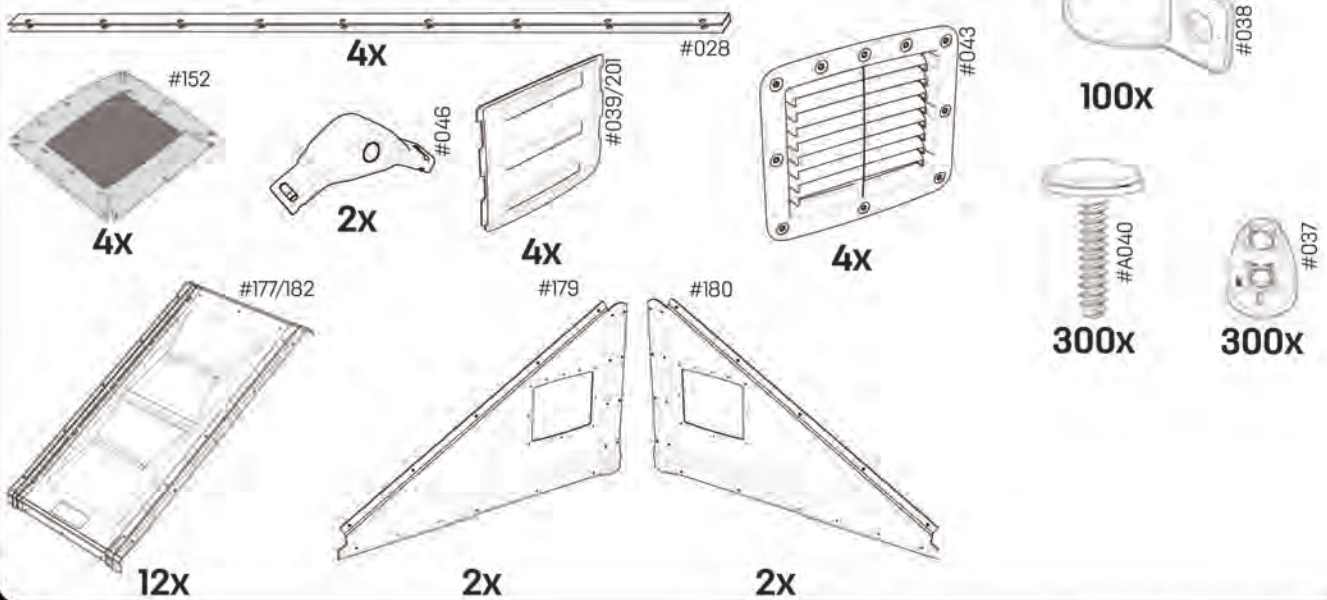
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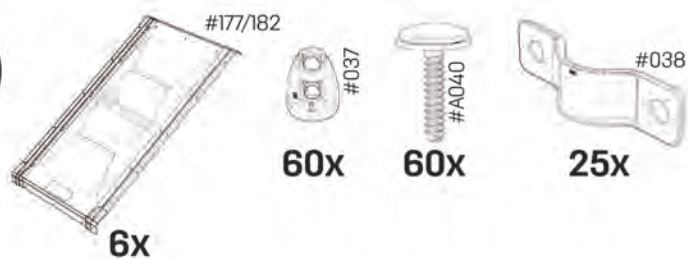
Pipes should be over the wires.



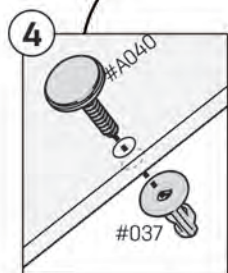
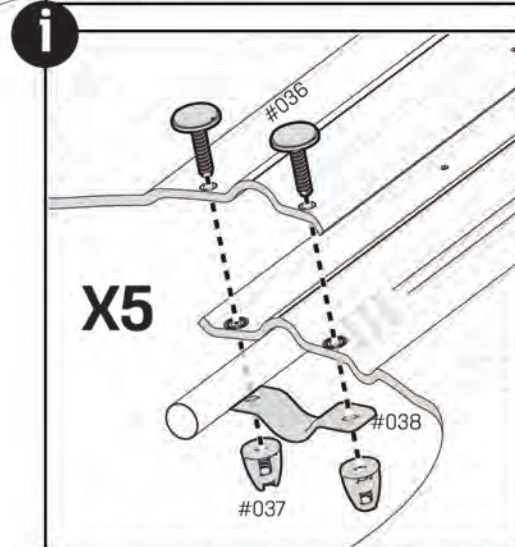
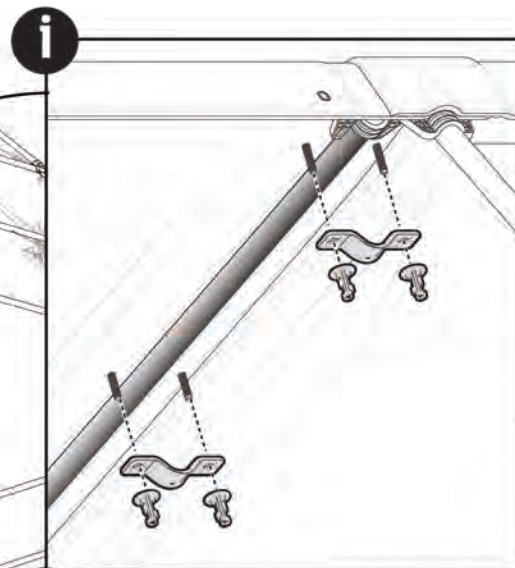
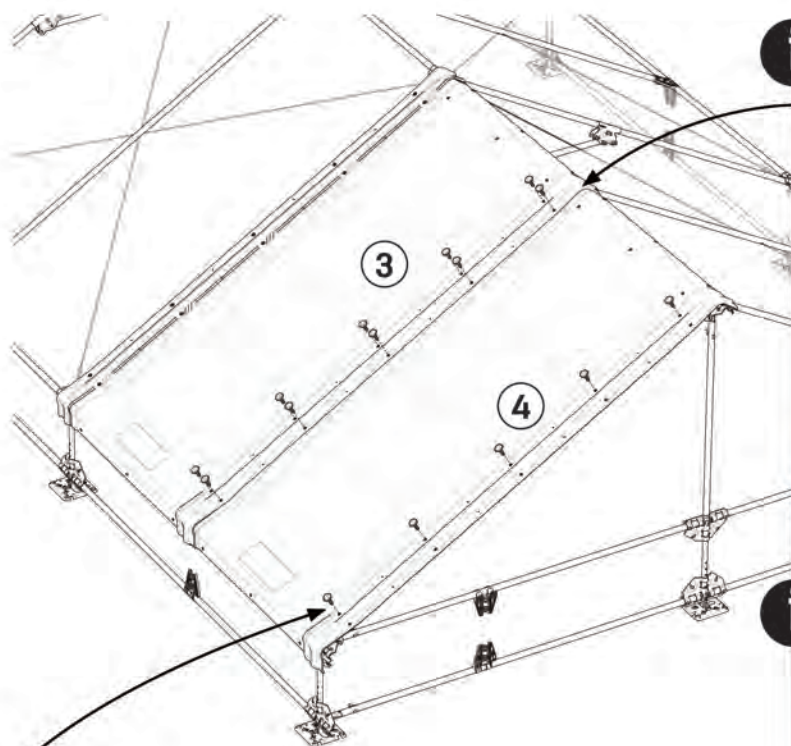
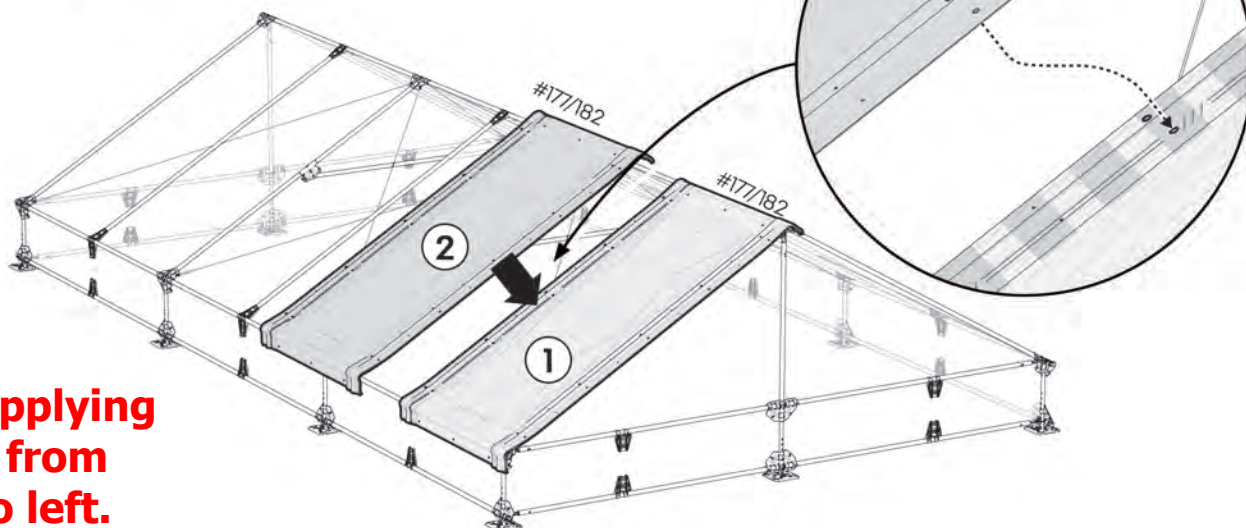
CONTENTS Box A



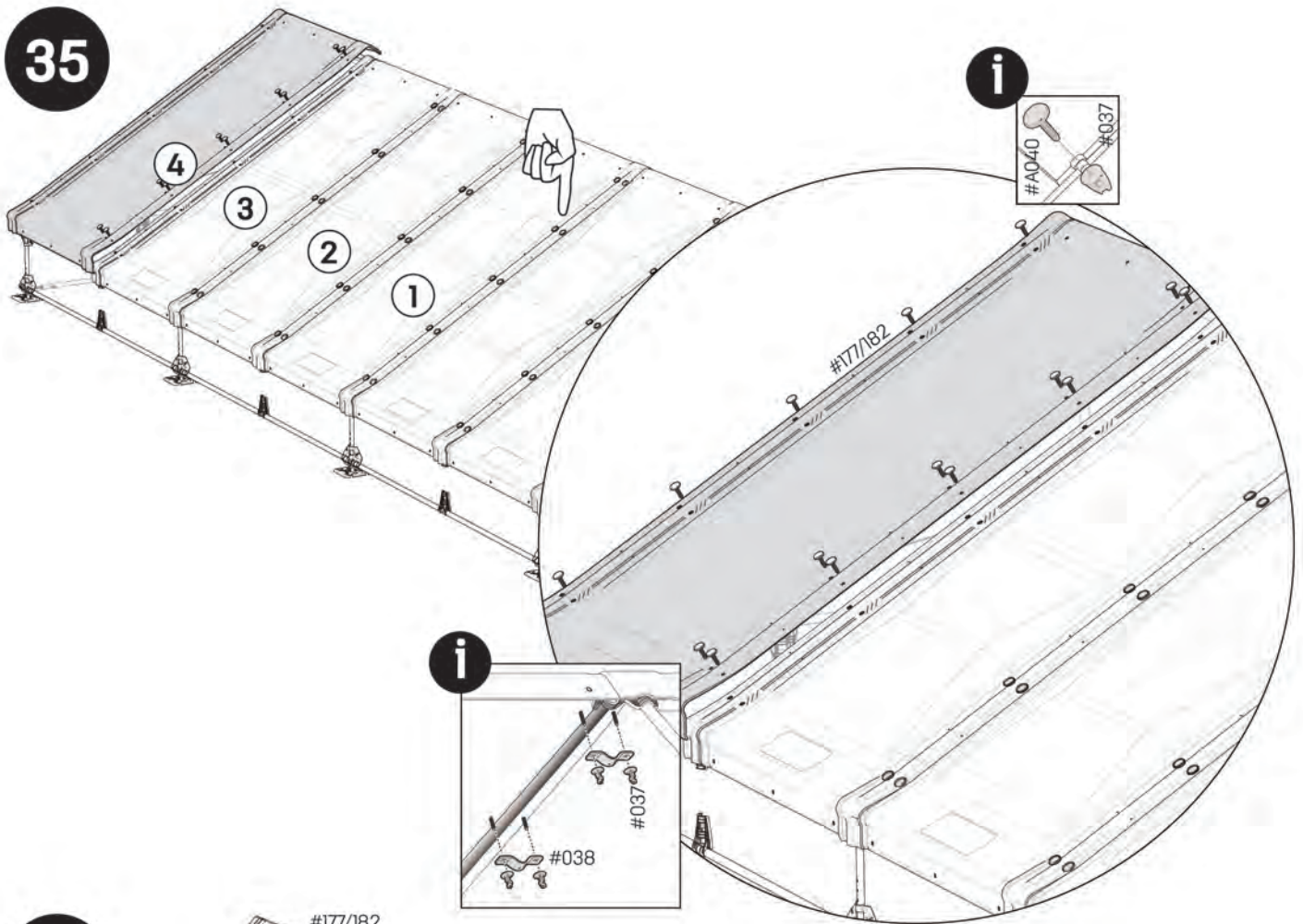
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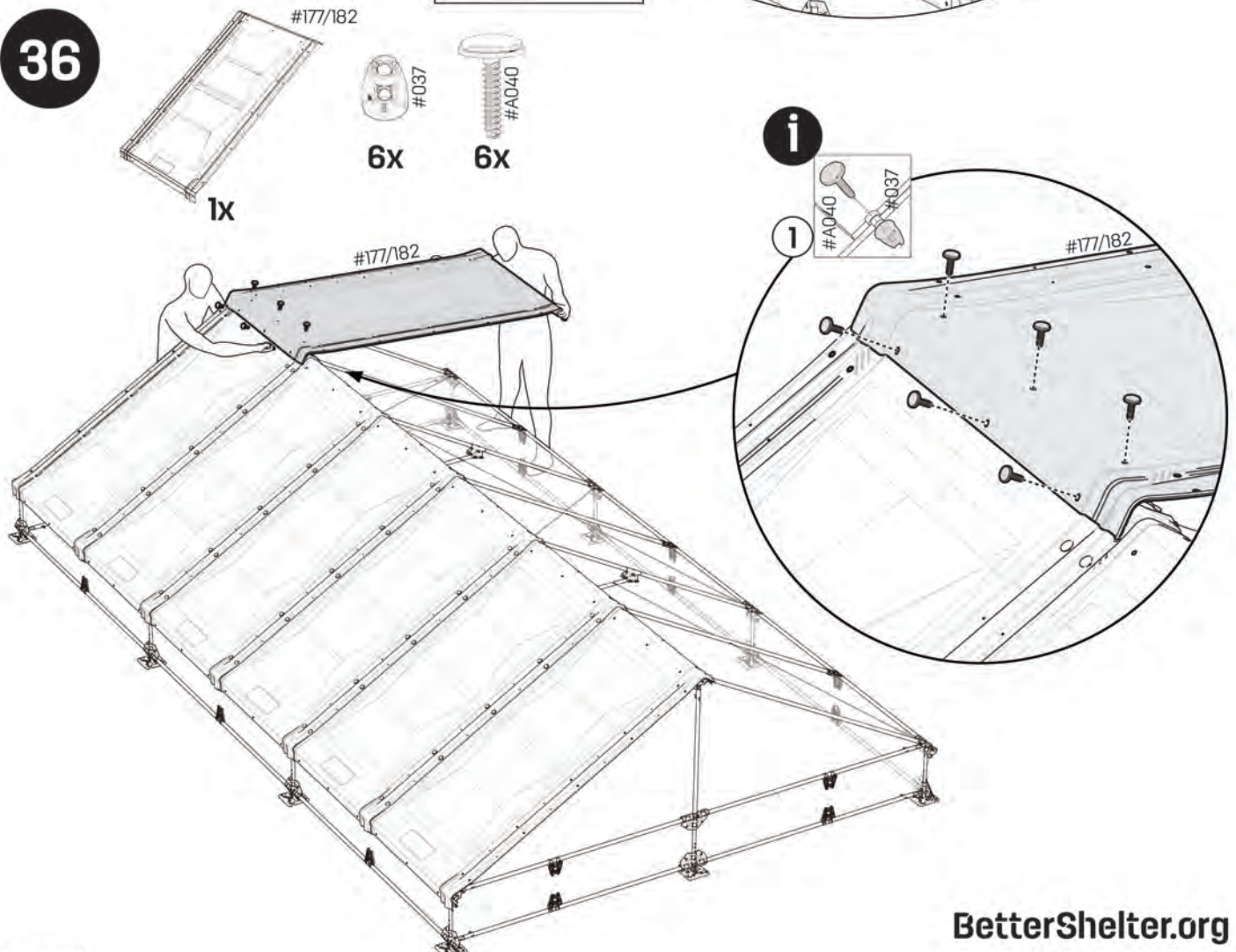
Start applying panels from right to left.



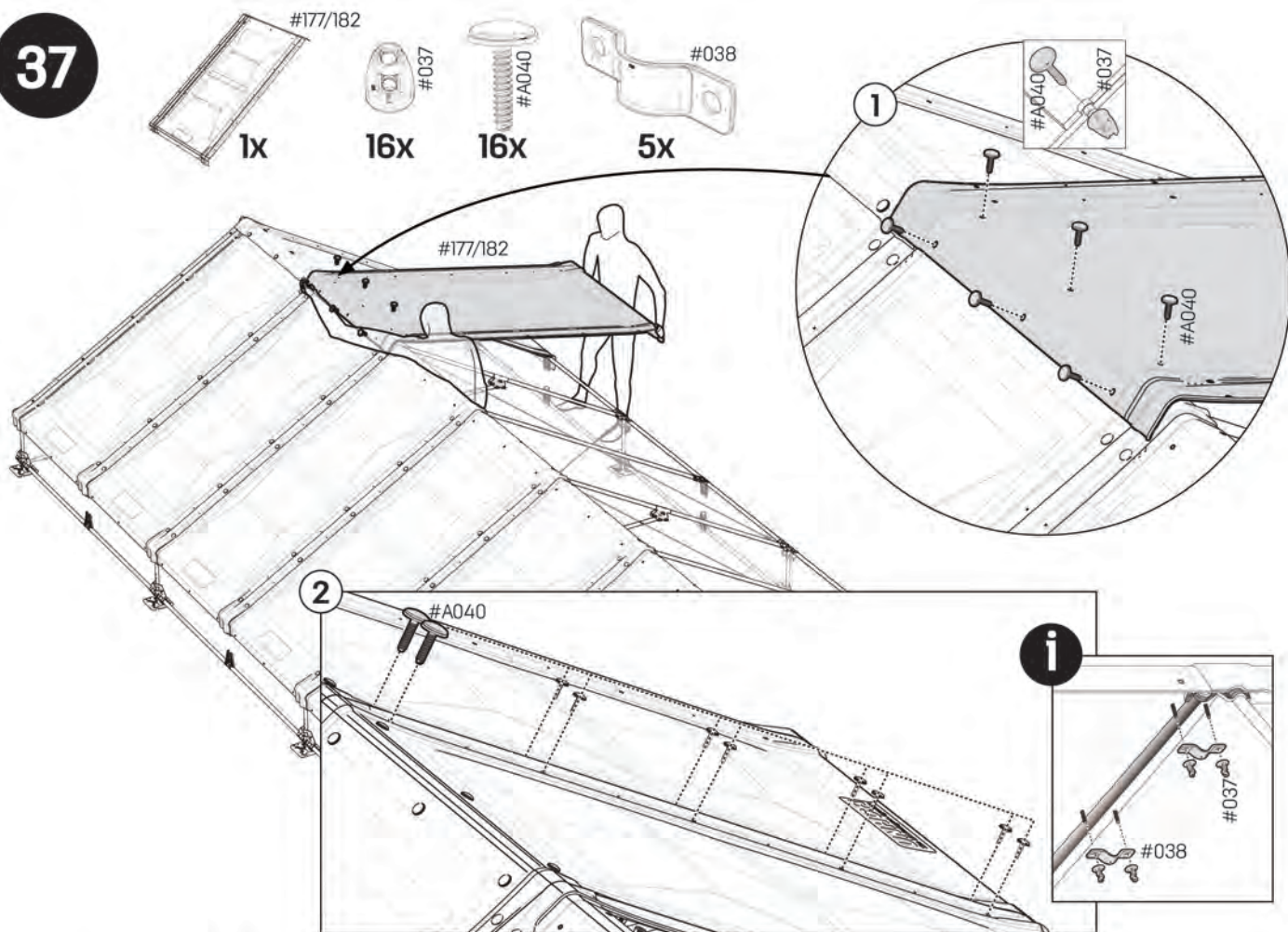
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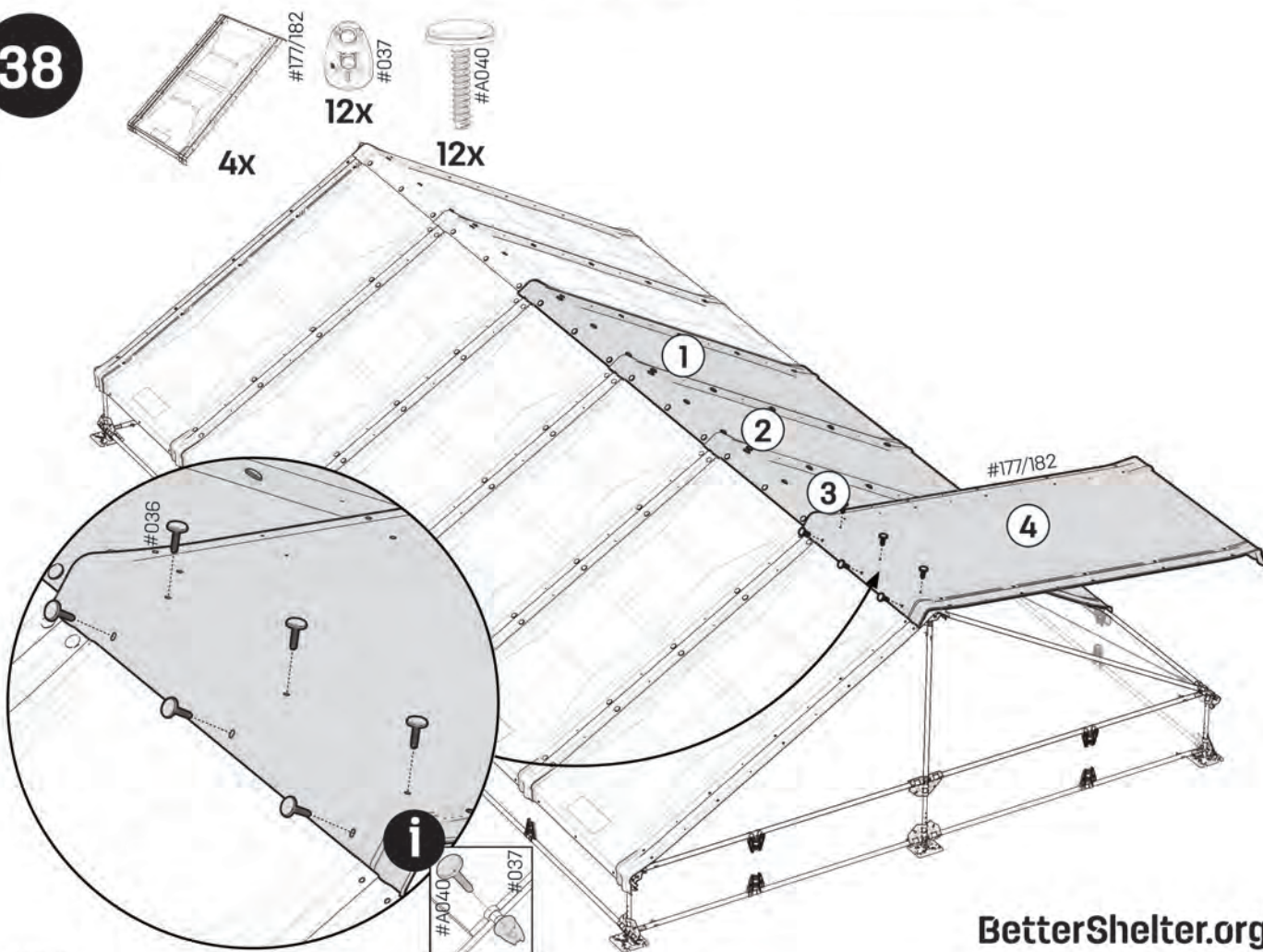
36



37



38



39



45x



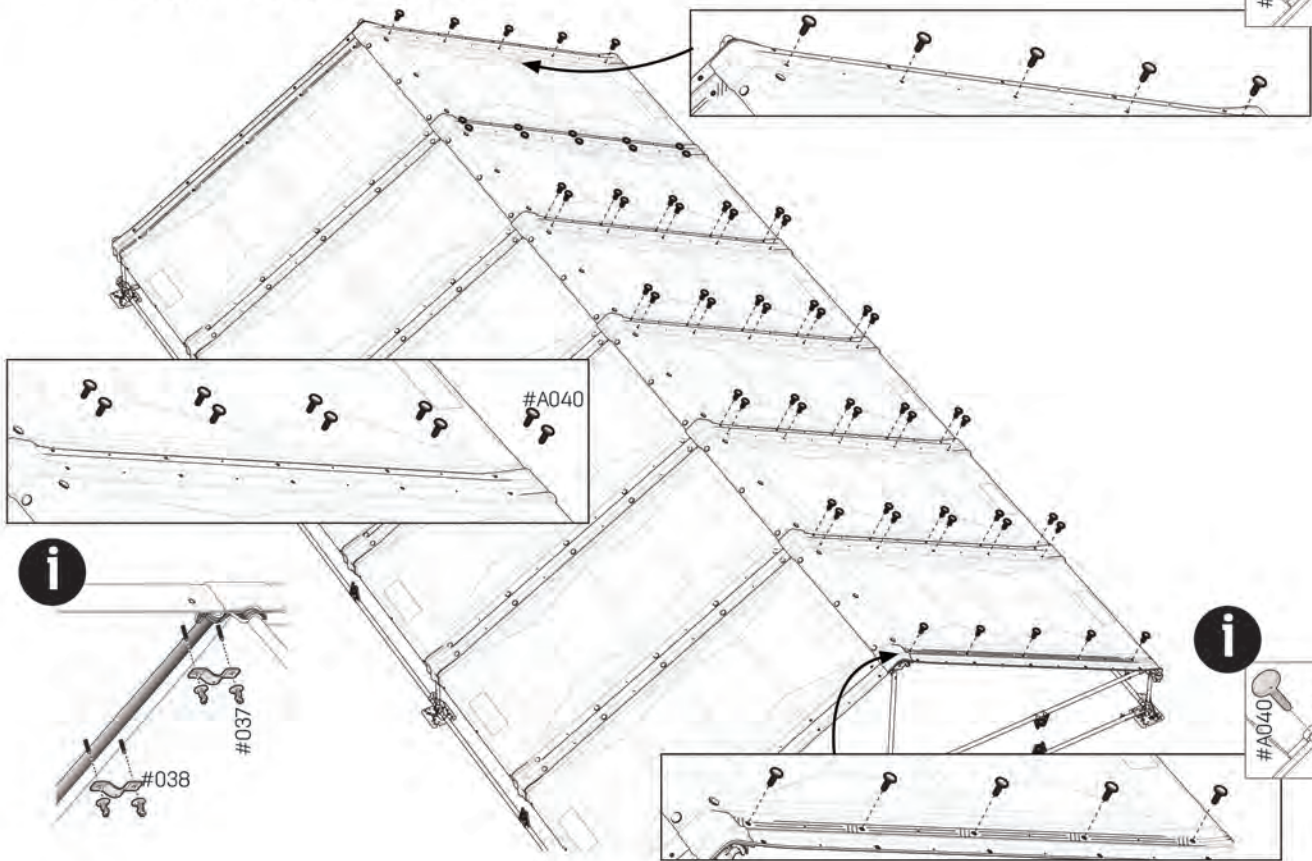
45x



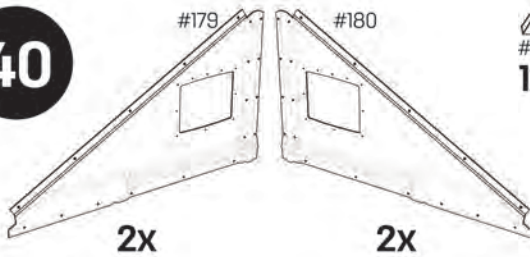
#038

20x

i



40



2x

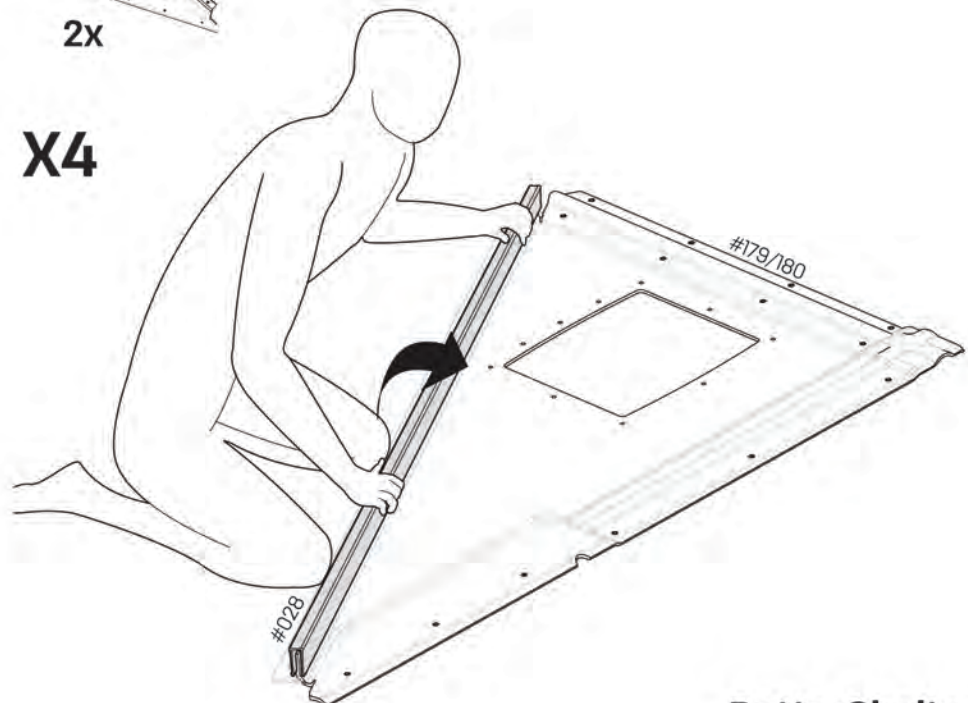
2x

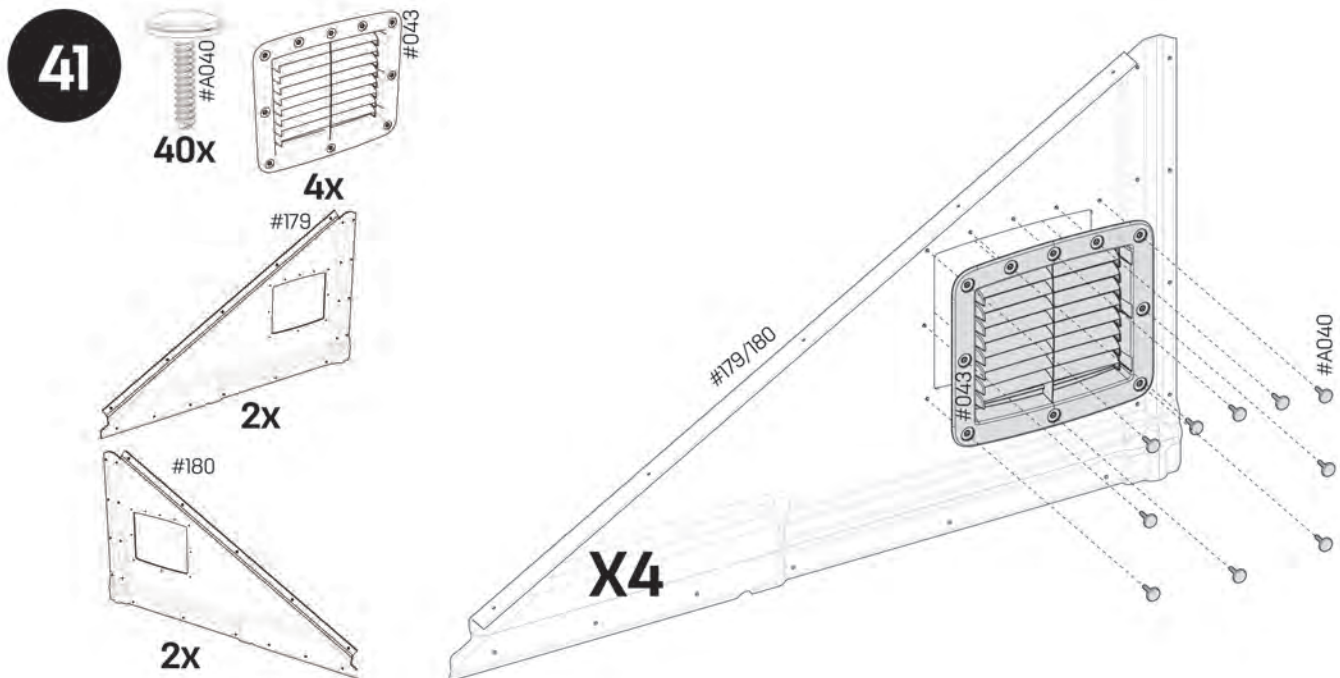


#028

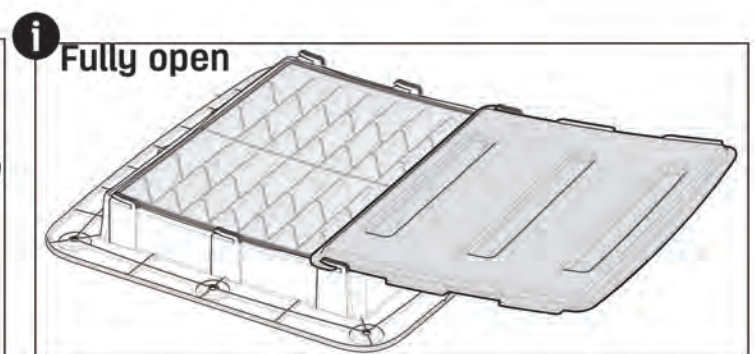
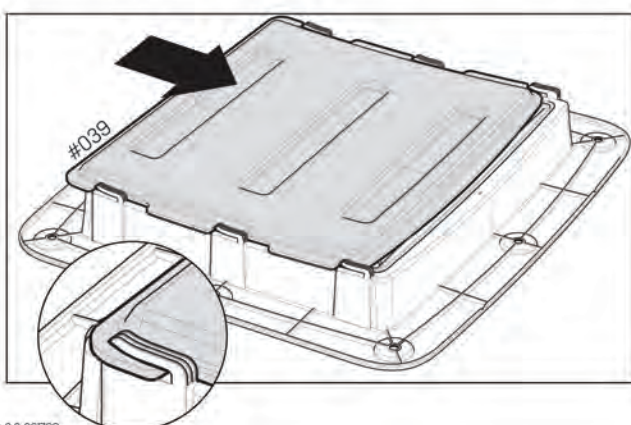
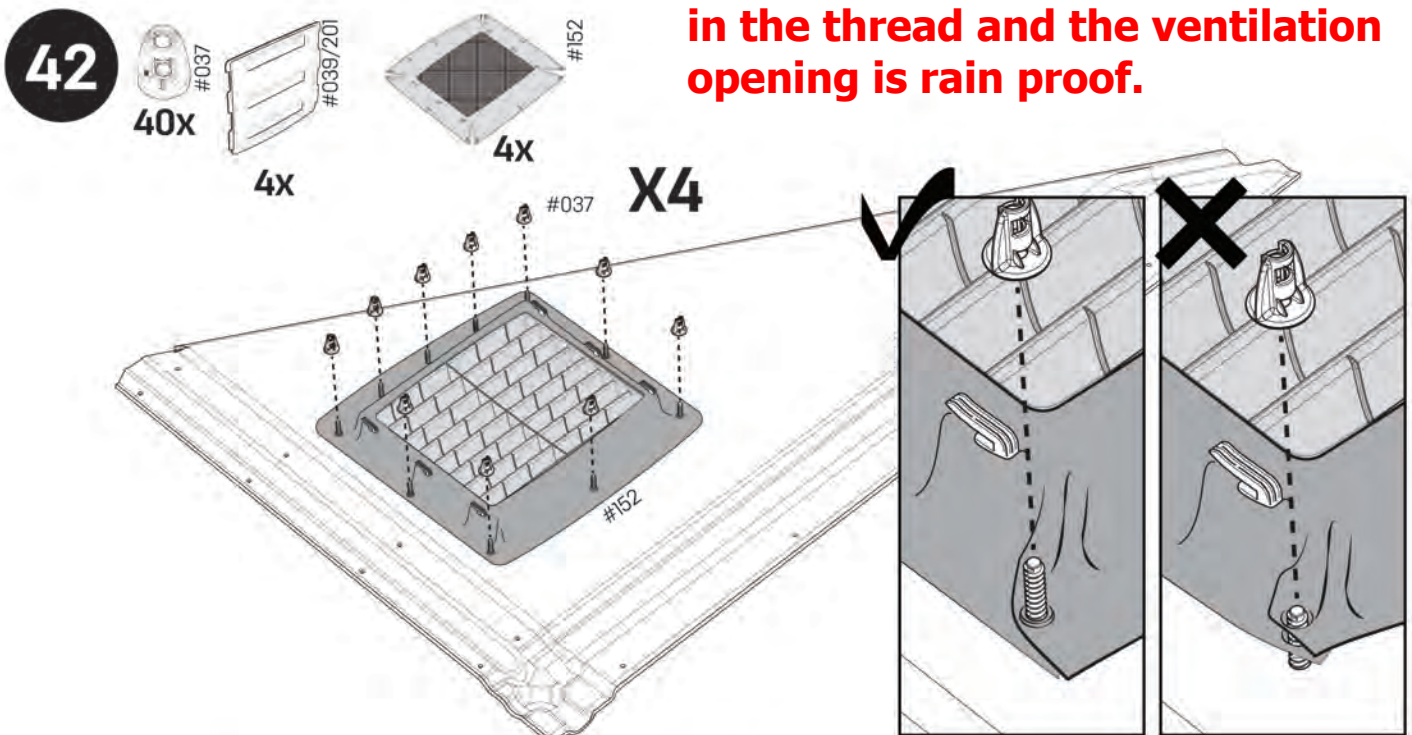
1x

X4





Push the fabric of the mosquito net all the way over the bolt so that the fabric does not get tangled up in the thread and the ventilation opening is rain proof.



43



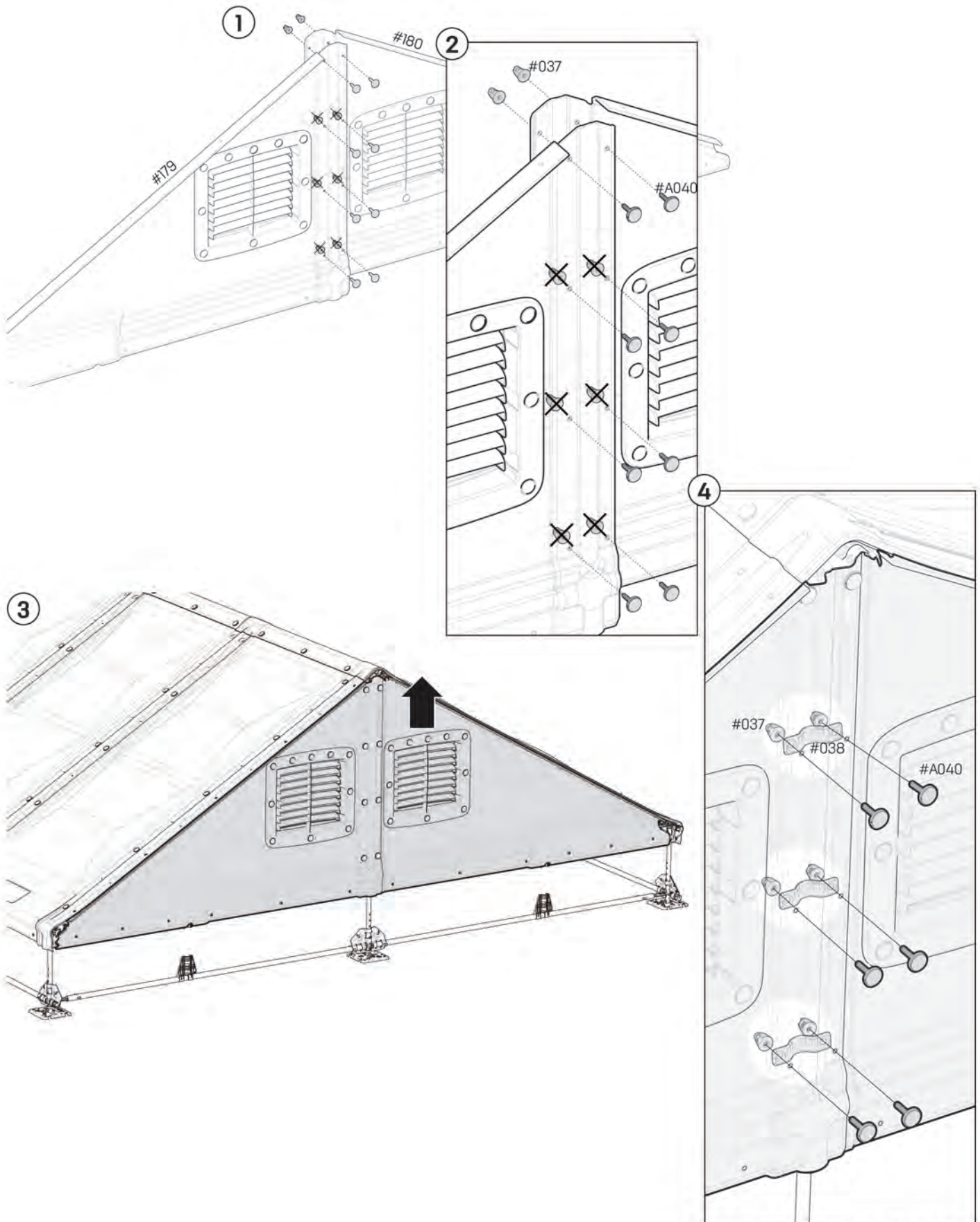
8x



8x



3x



44

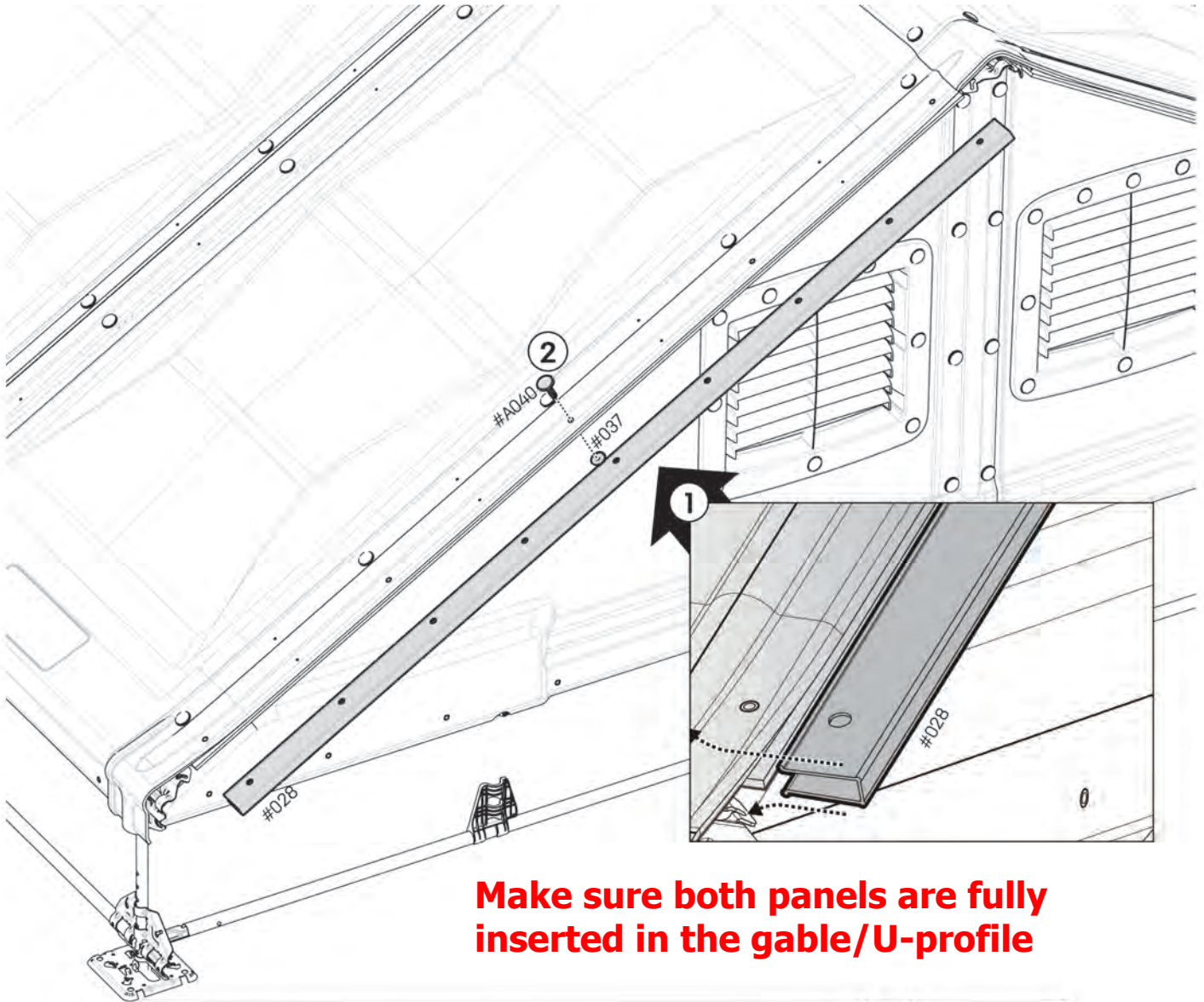
#028
2x

#037
2x

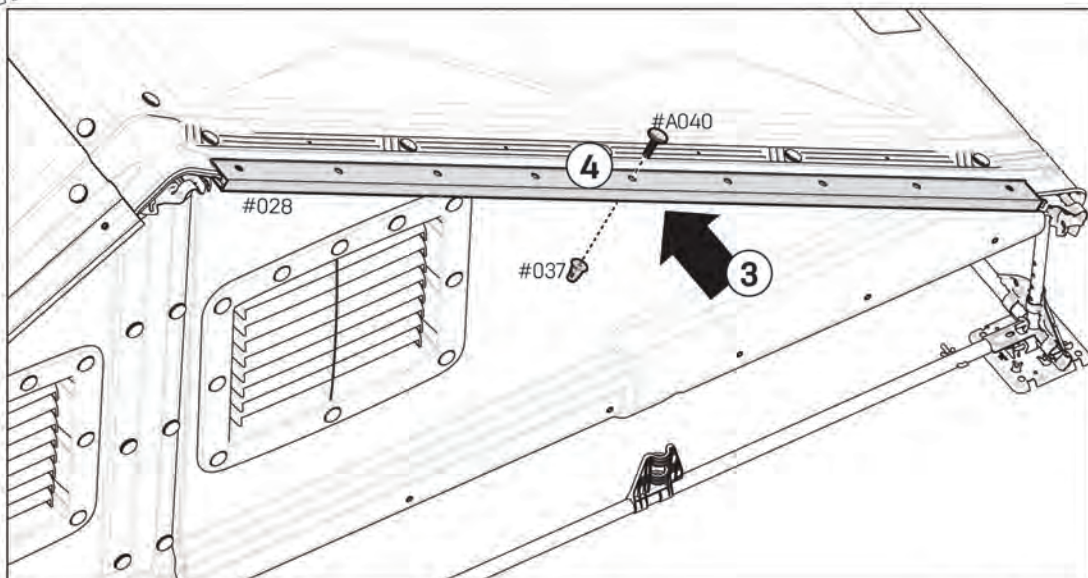
#A040
2x

2x

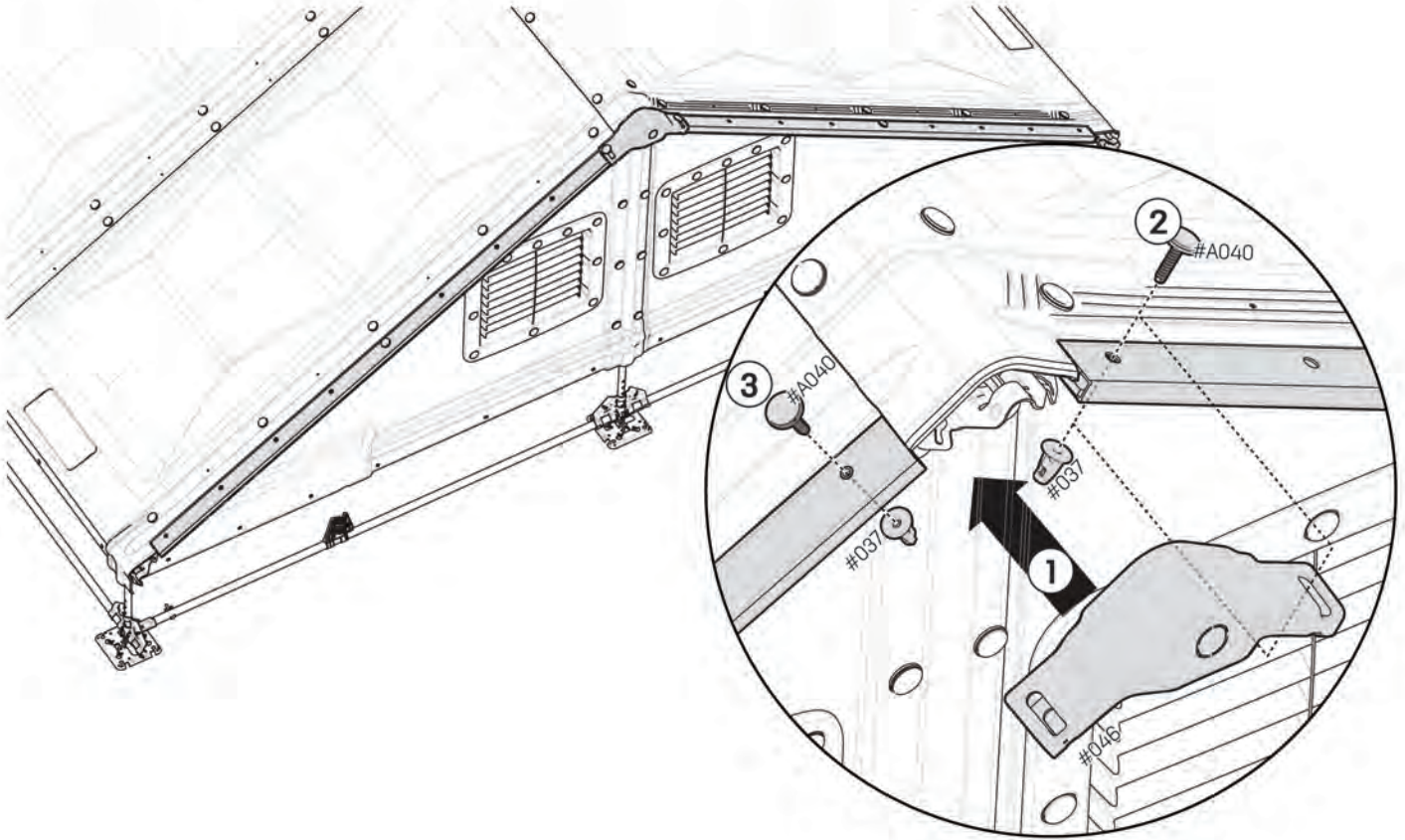
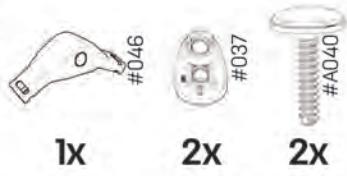
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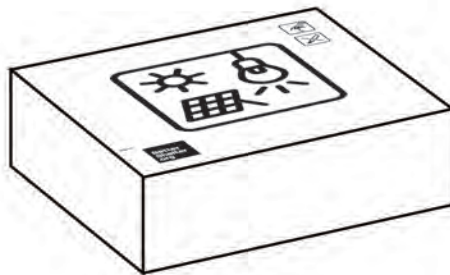
Make sure both panels are fully inserted in the gable/U-profile



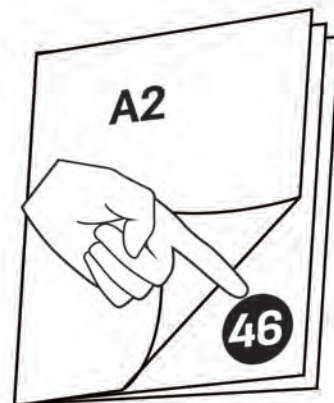
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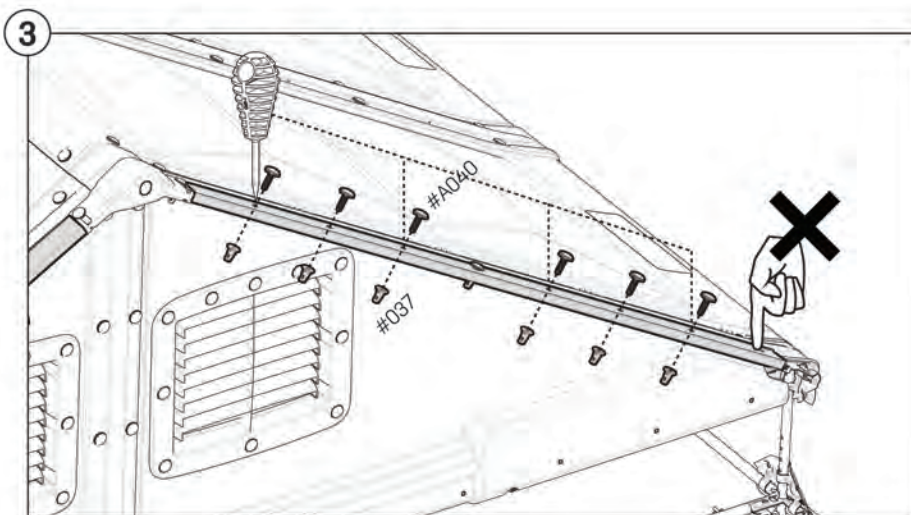
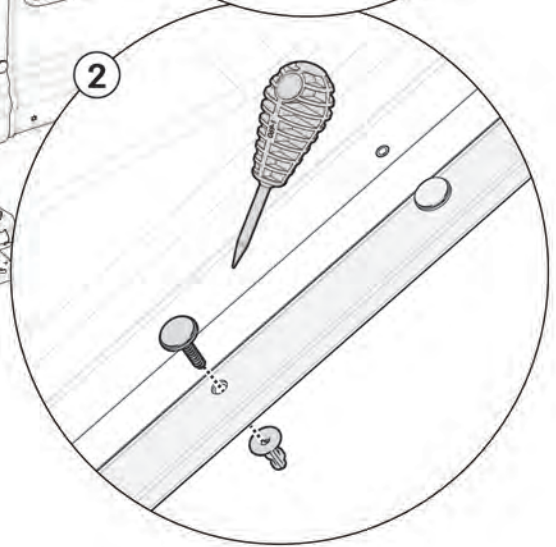
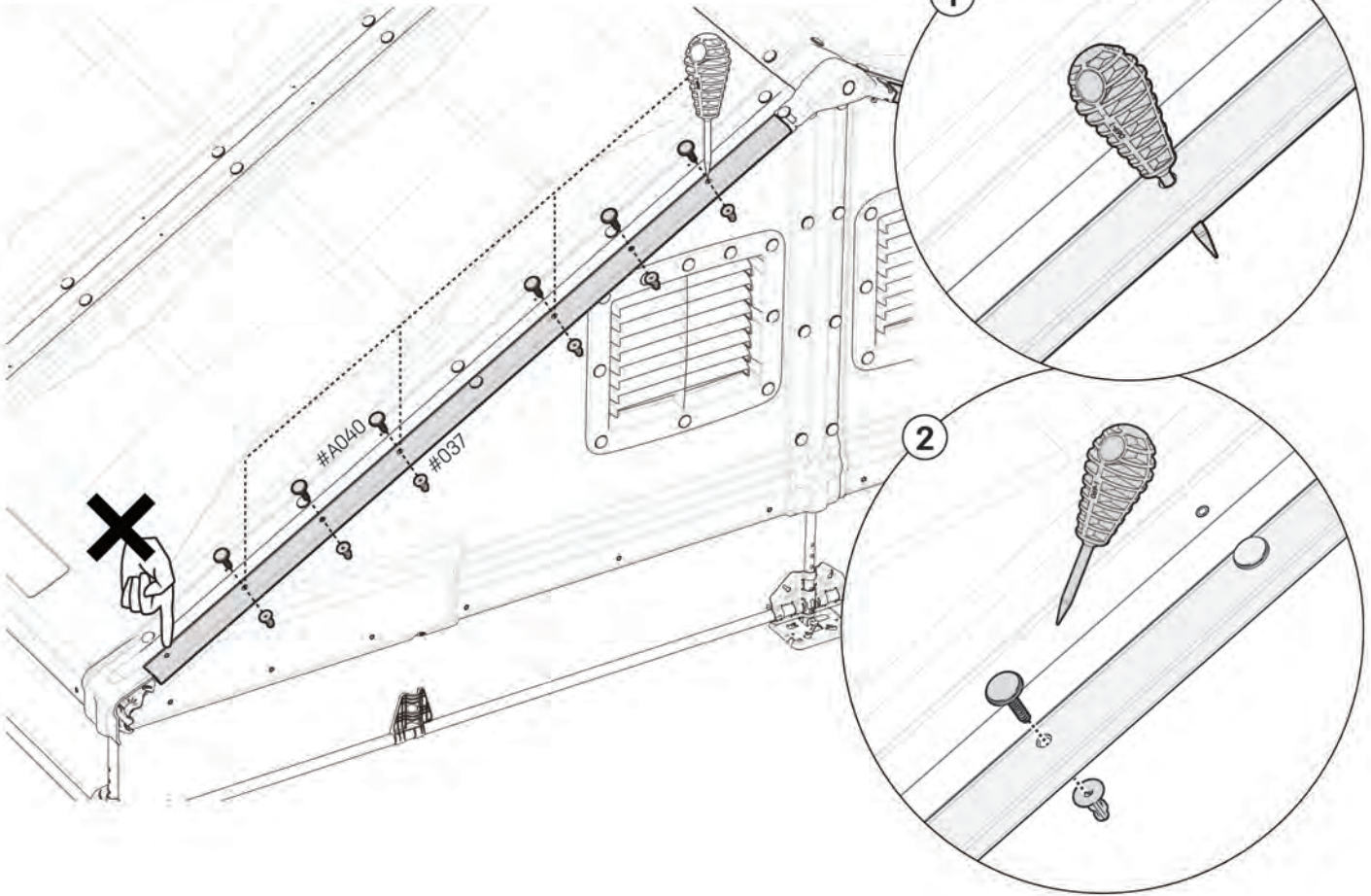
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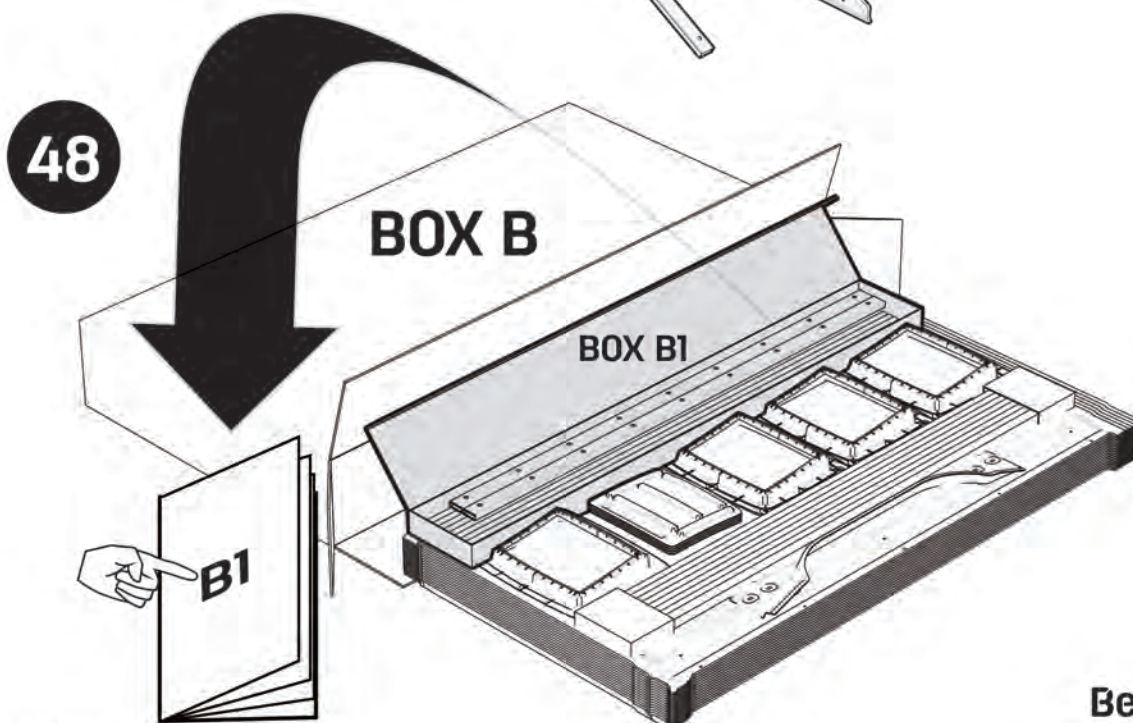
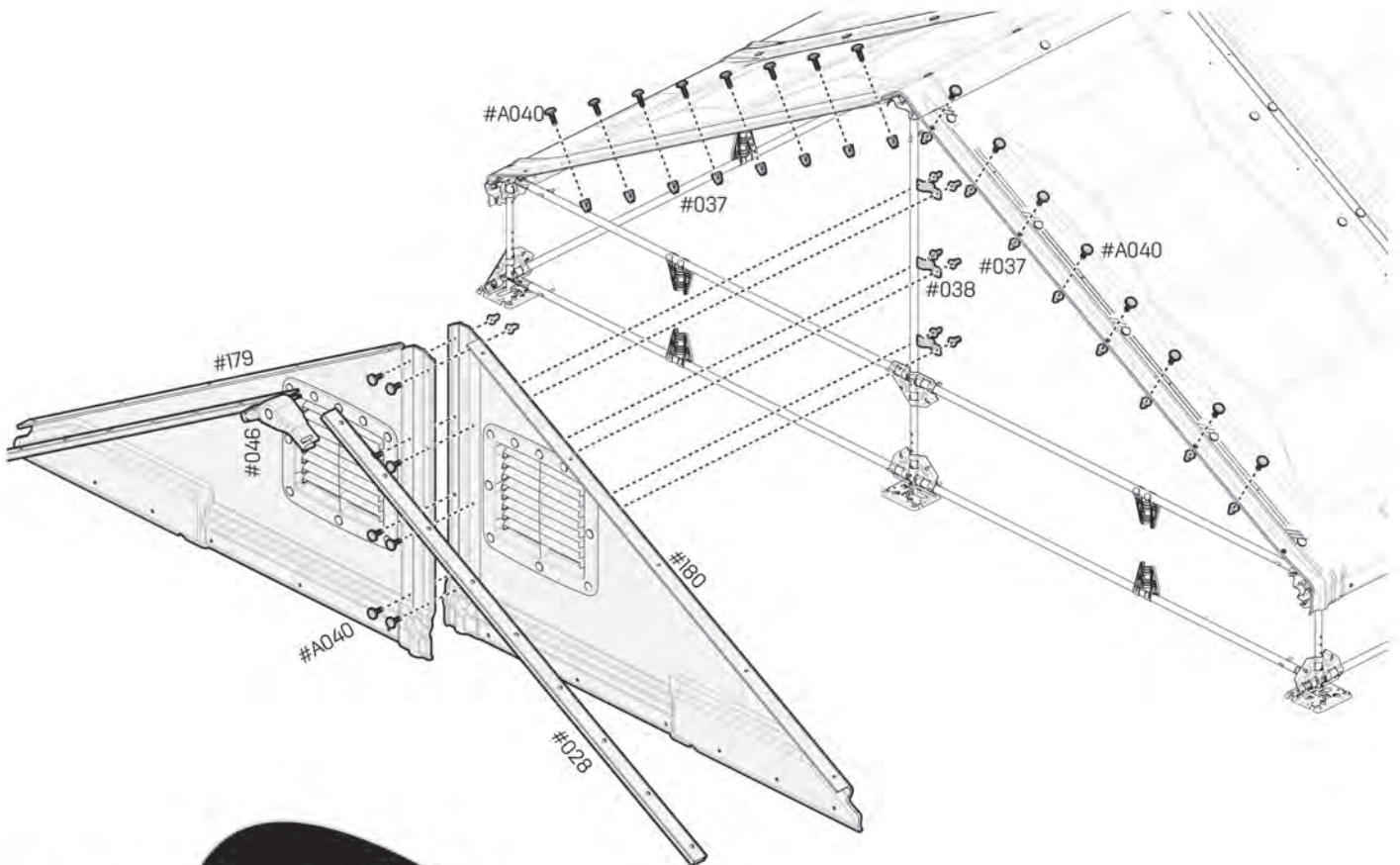
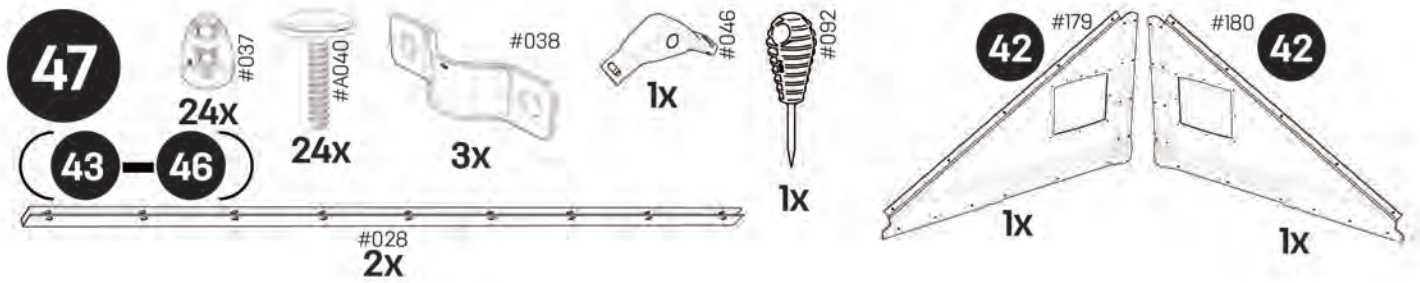


PV Panel Kit



46

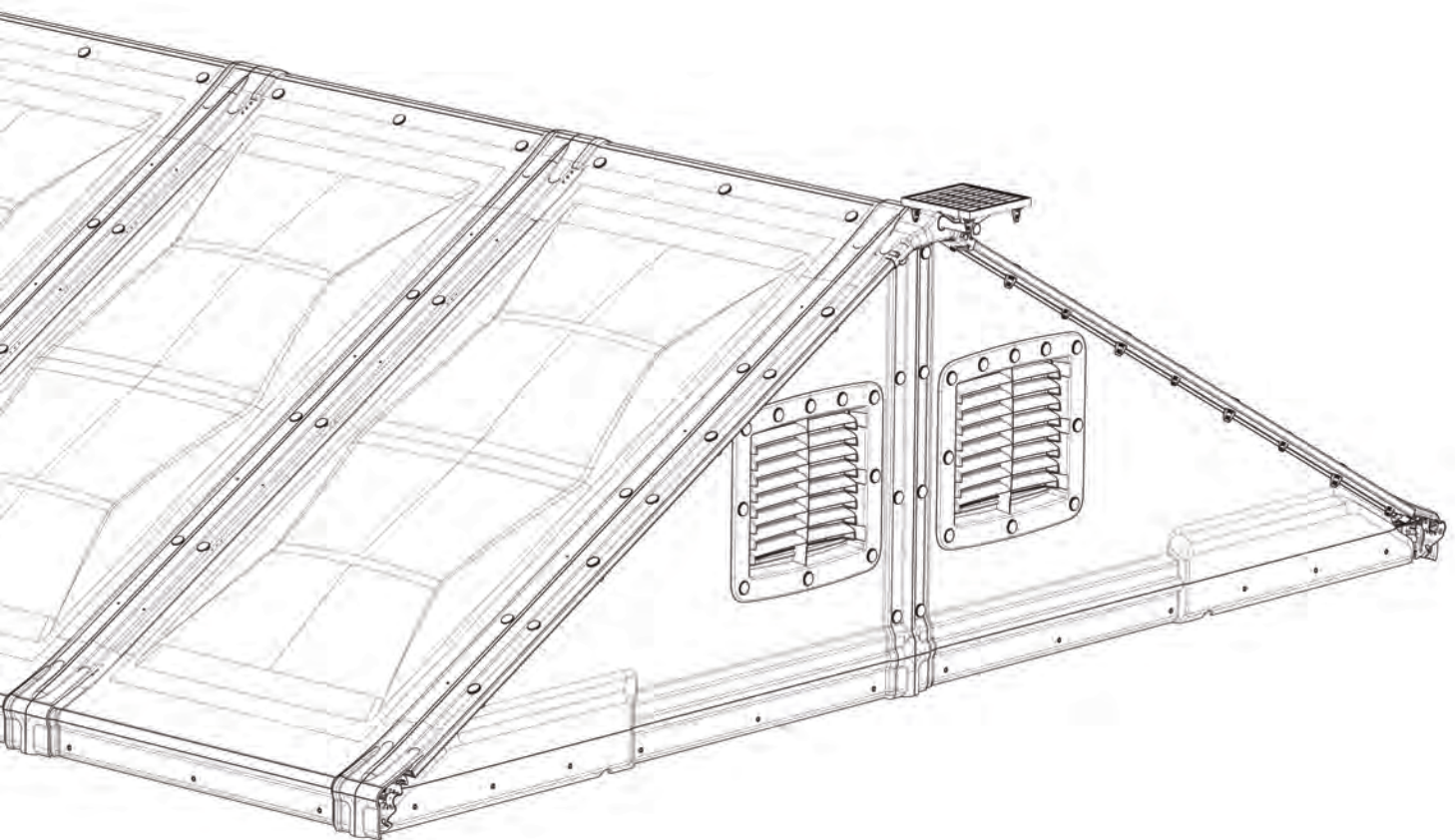




Better Shelter PV System Assembly Manual

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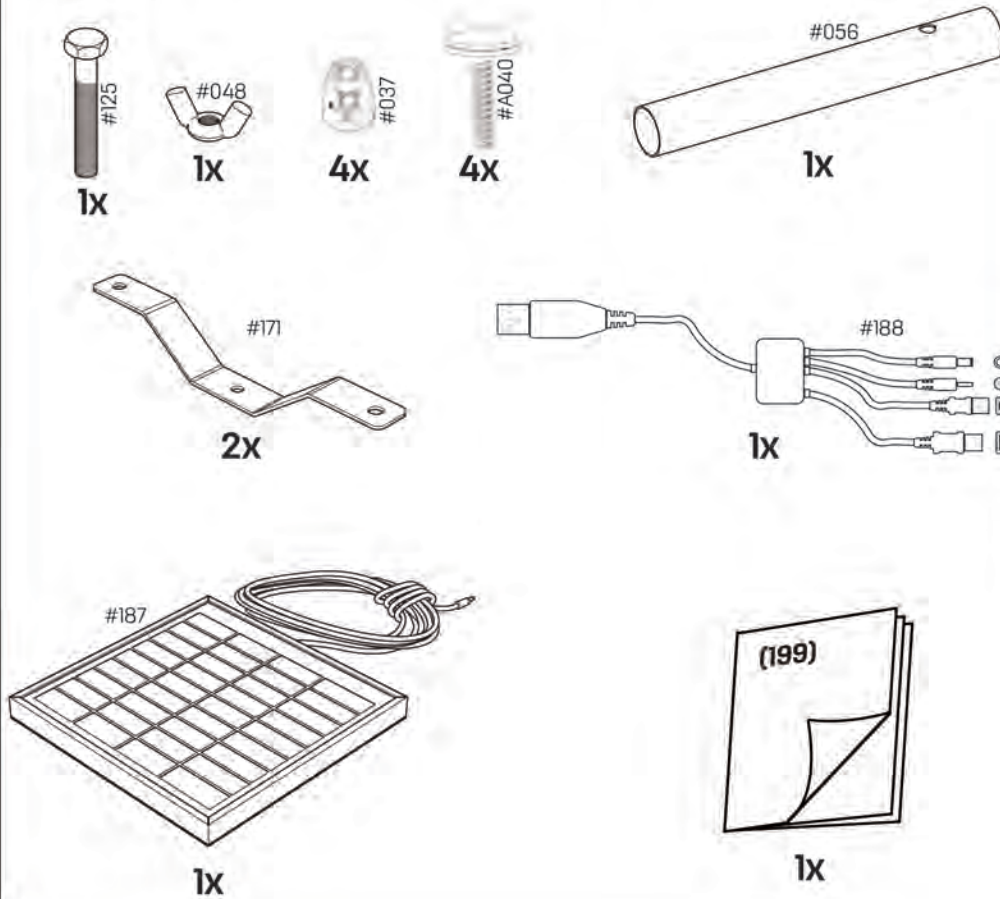
Manual de Montaje
Manuel de Montage
Montageanleitung
Manuale di Montaggio



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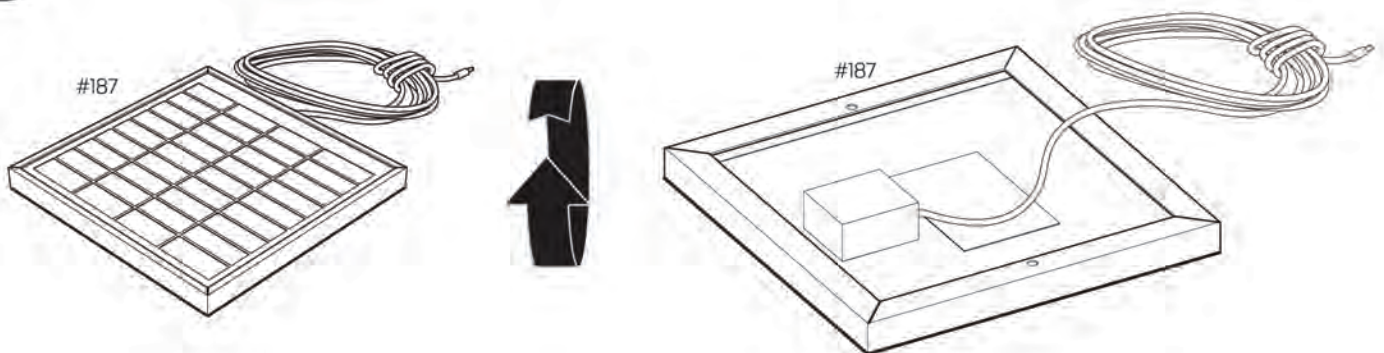
CONTENTS PV Panel System

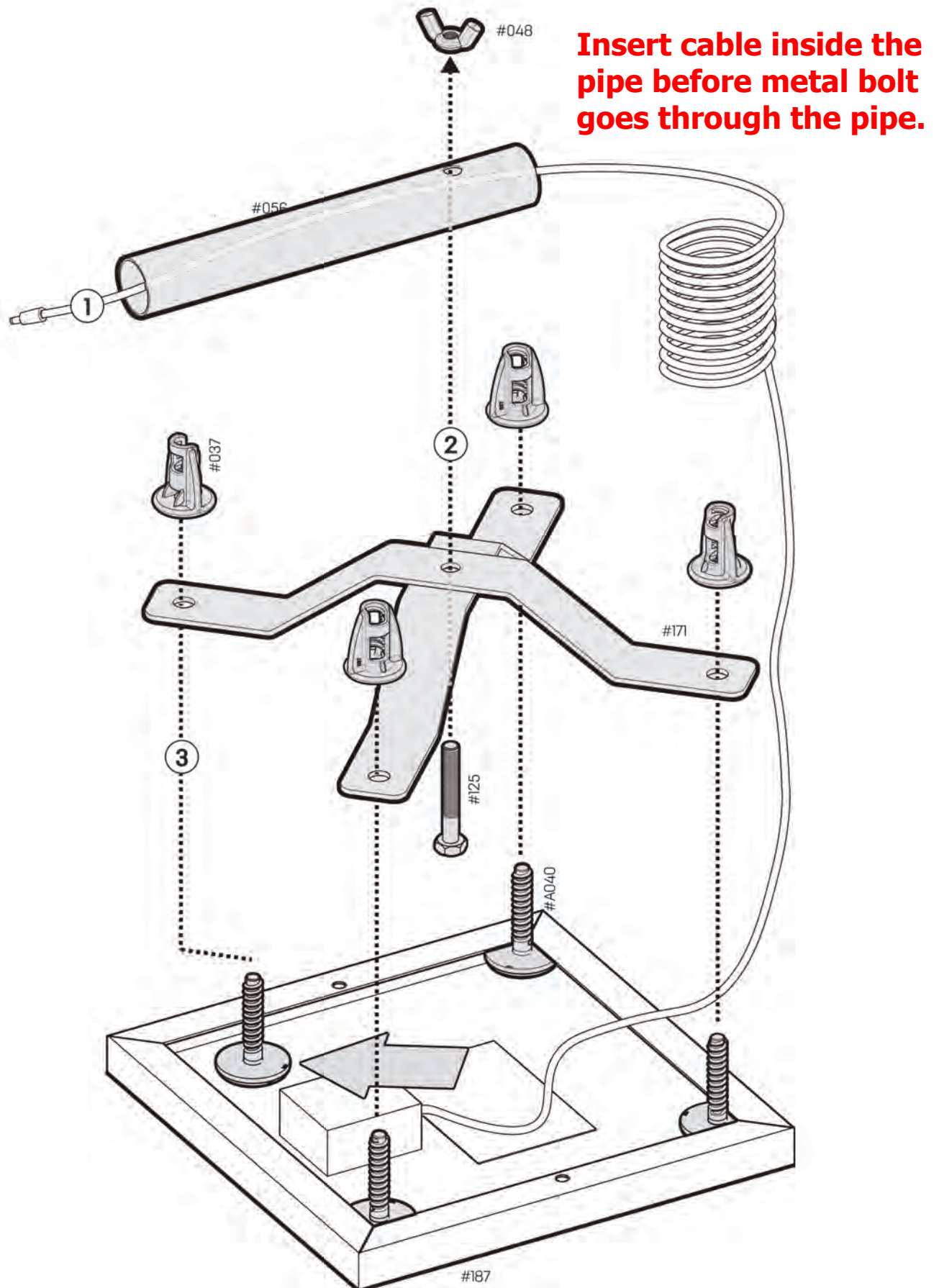


CONTENTS PV Lamp (Box B)

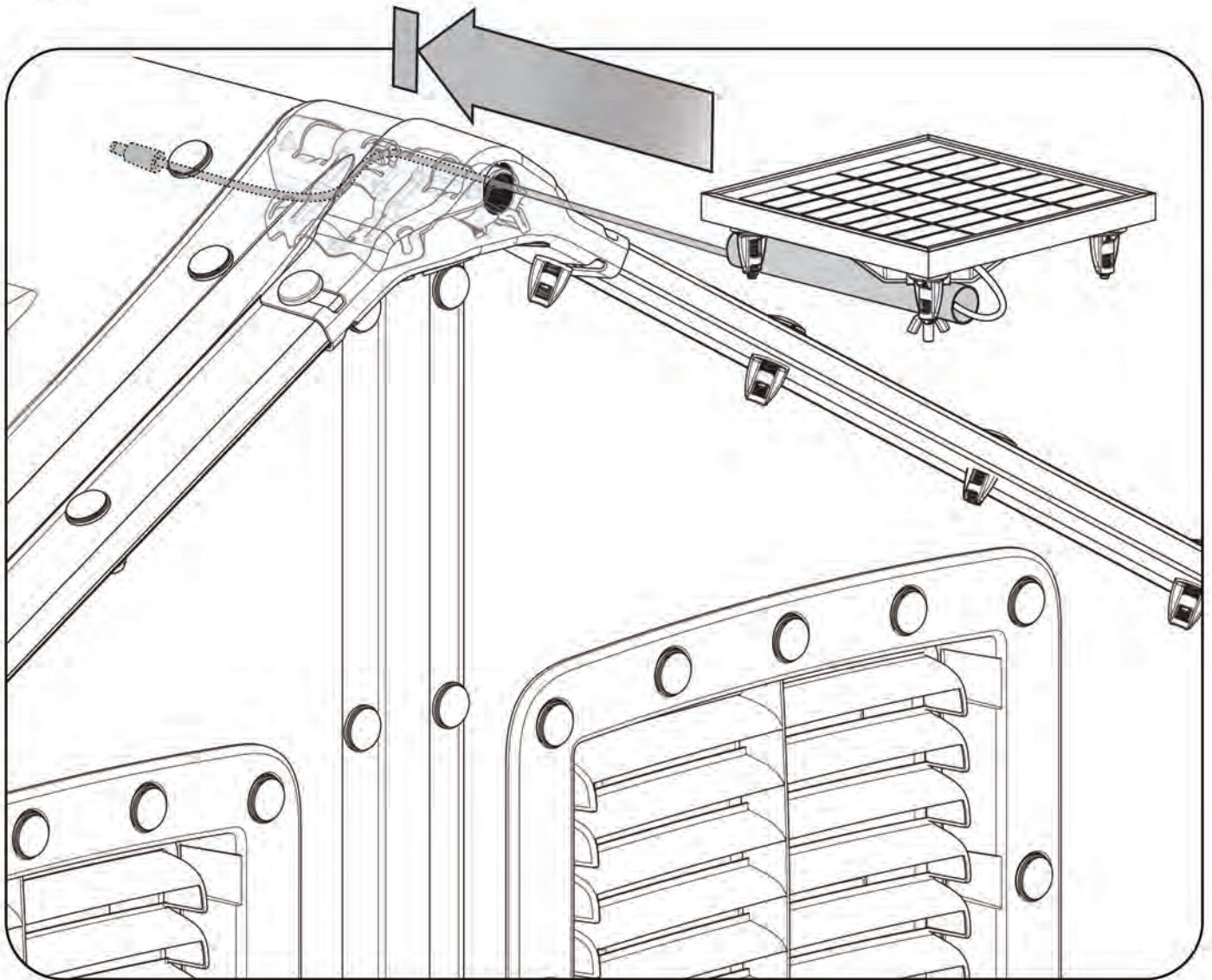


1





3



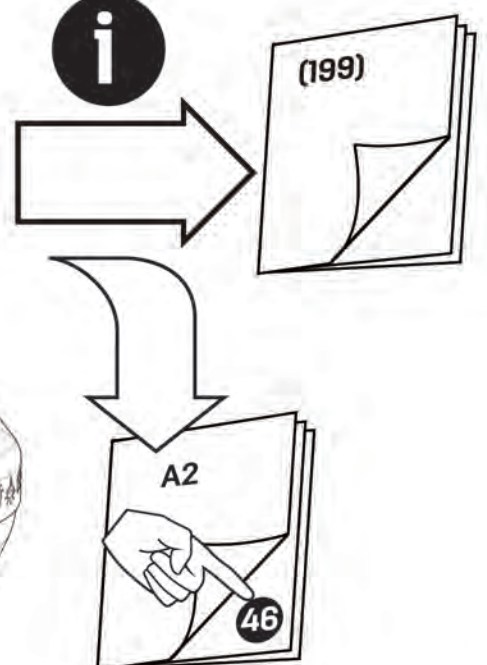
4



5



i

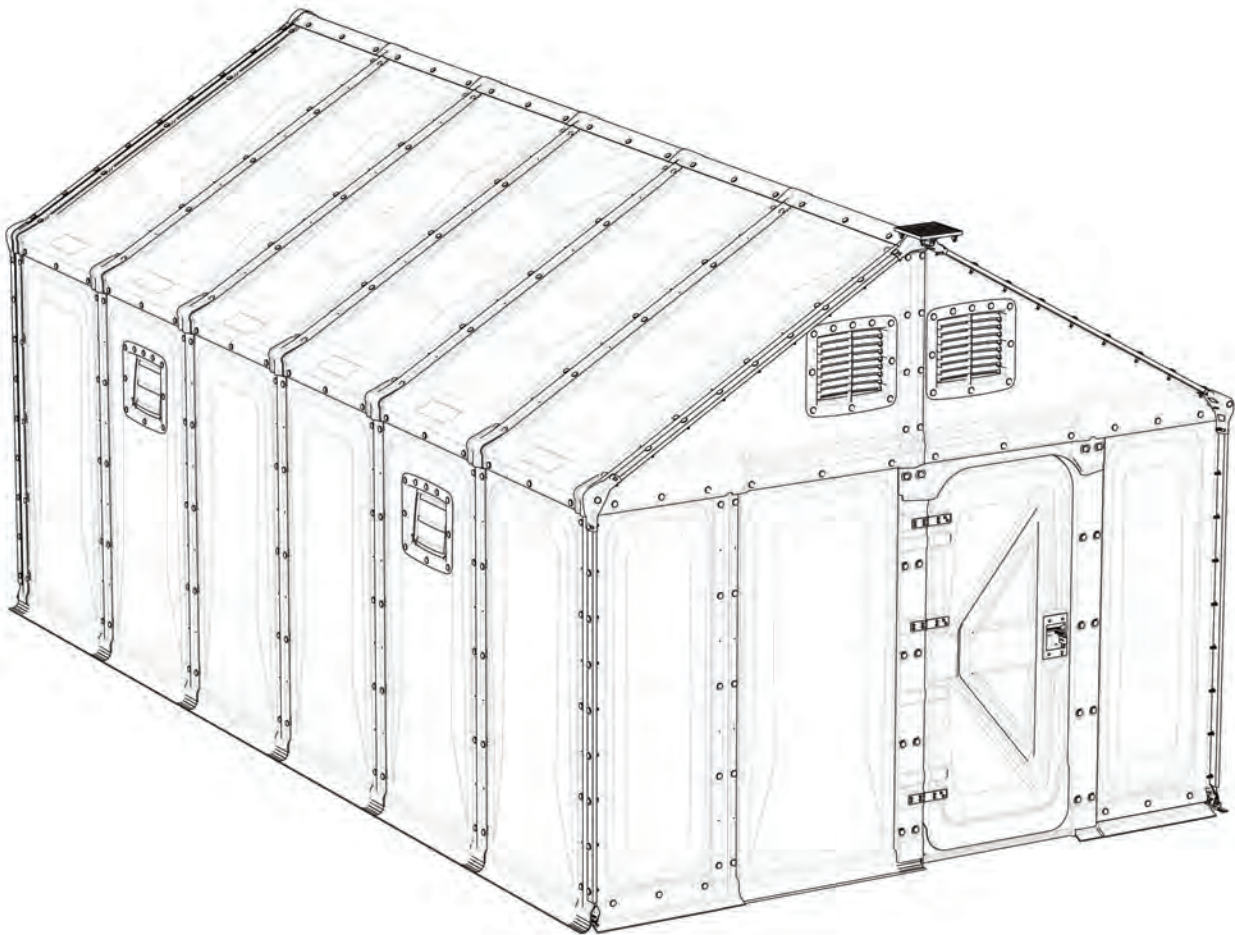


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Better Shelter B _ Walls Assembly Manual

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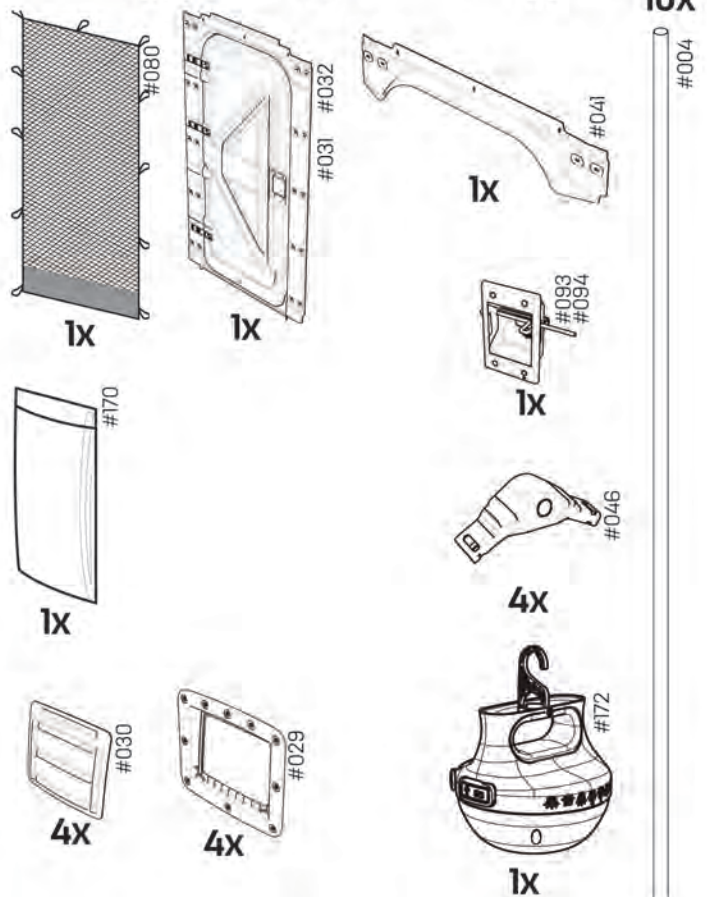
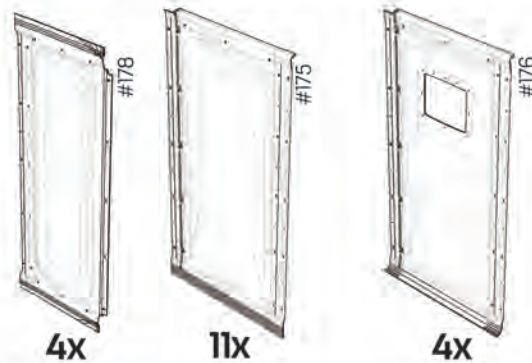
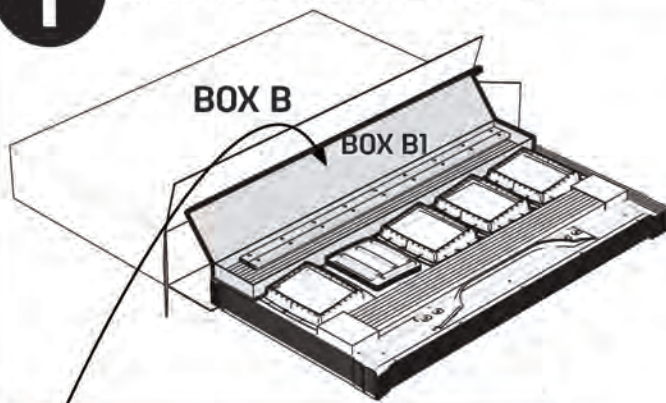
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Manuel de Montage
Montageanleitung
Manuale di Montaggio



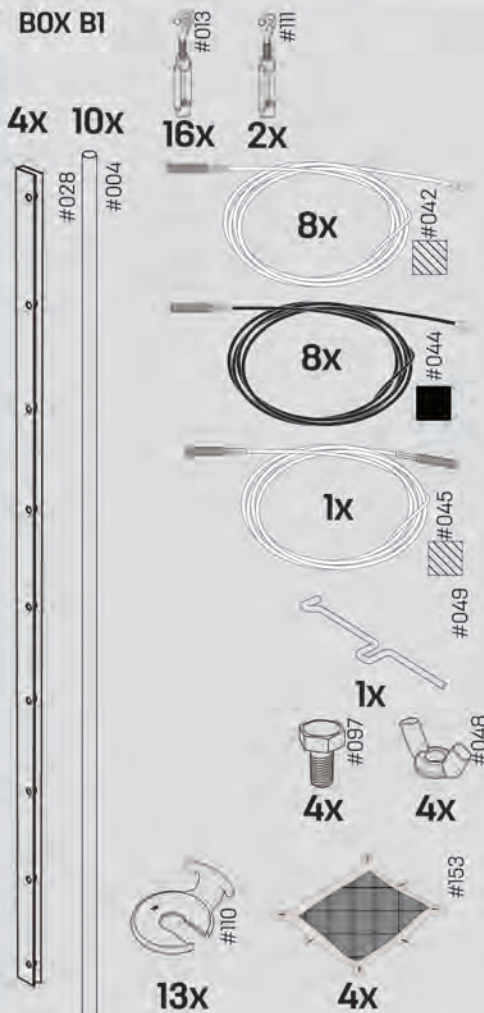
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CONTENTS Box B



BOX B1



Legend

1 2

Main steps of assembly

1 2 3 4

Sequence of assembly



Insertion path

2x
#004

Number of parts in step or total
Part ID number

X2

Number of repetitions



Movement direction



Active part



Information



Detail placement



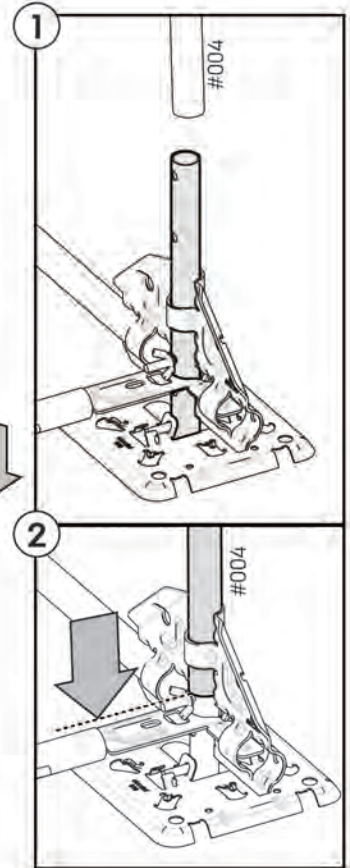
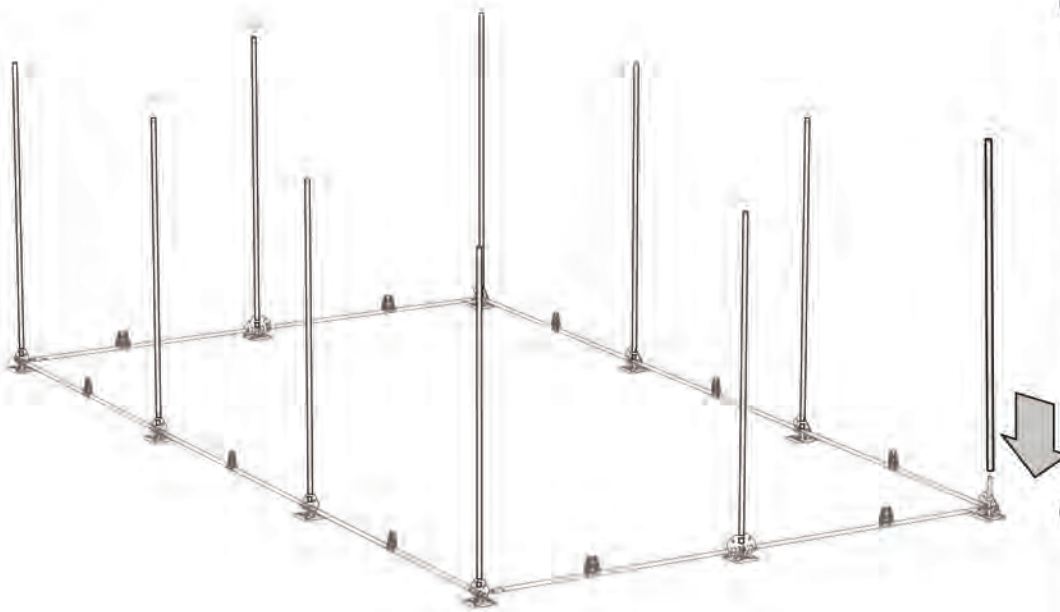
Rotate part or move to opposite part
of shelter



Important detail or position

49

10x #004



Insert pipes all the way until it stops against the L-bolt

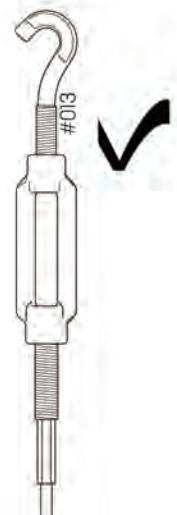
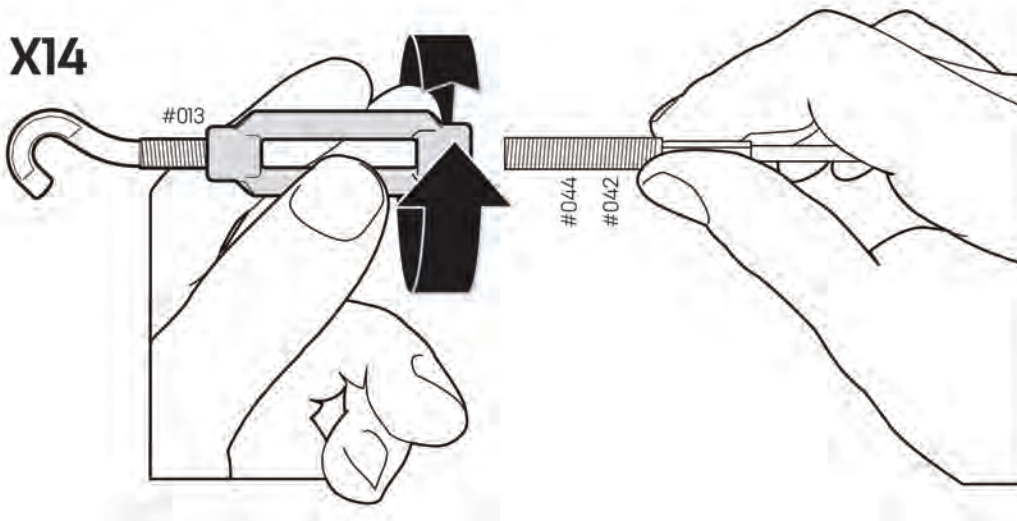
50

#013
14x

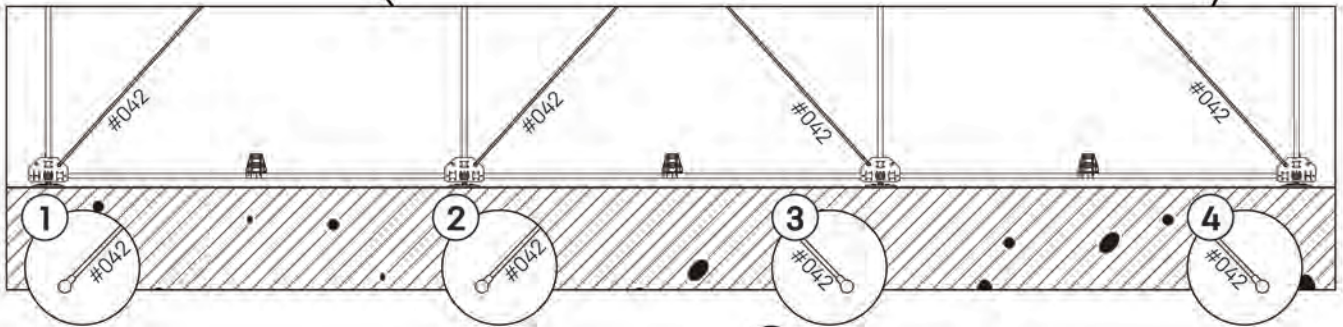
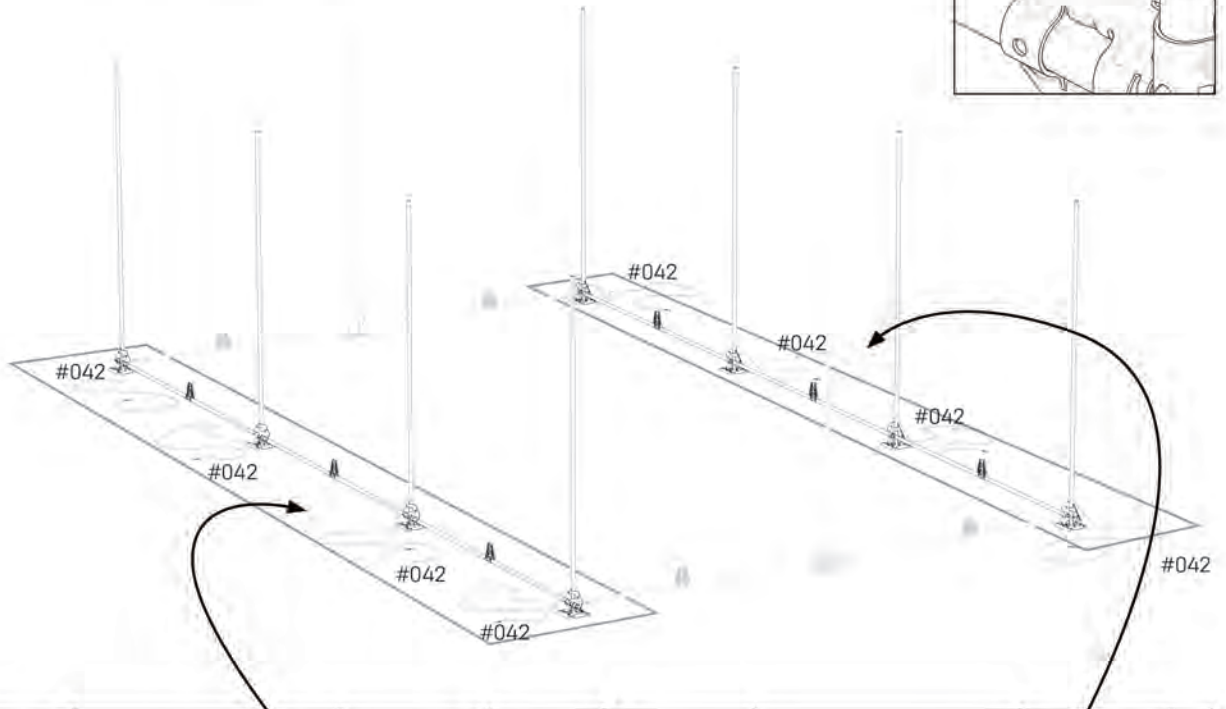
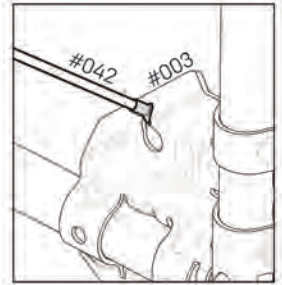
#044
6x

#042
8x

X14

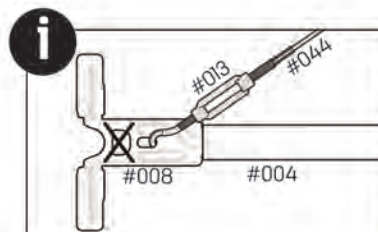
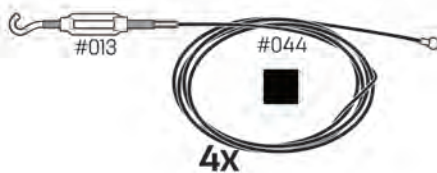
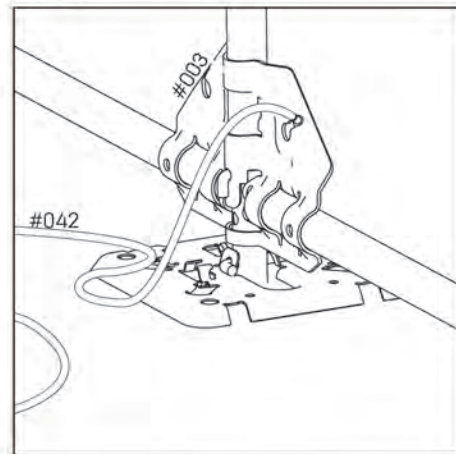
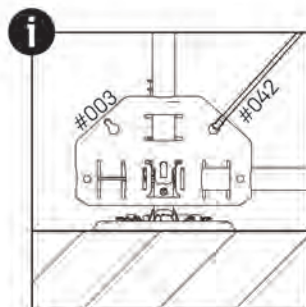


51

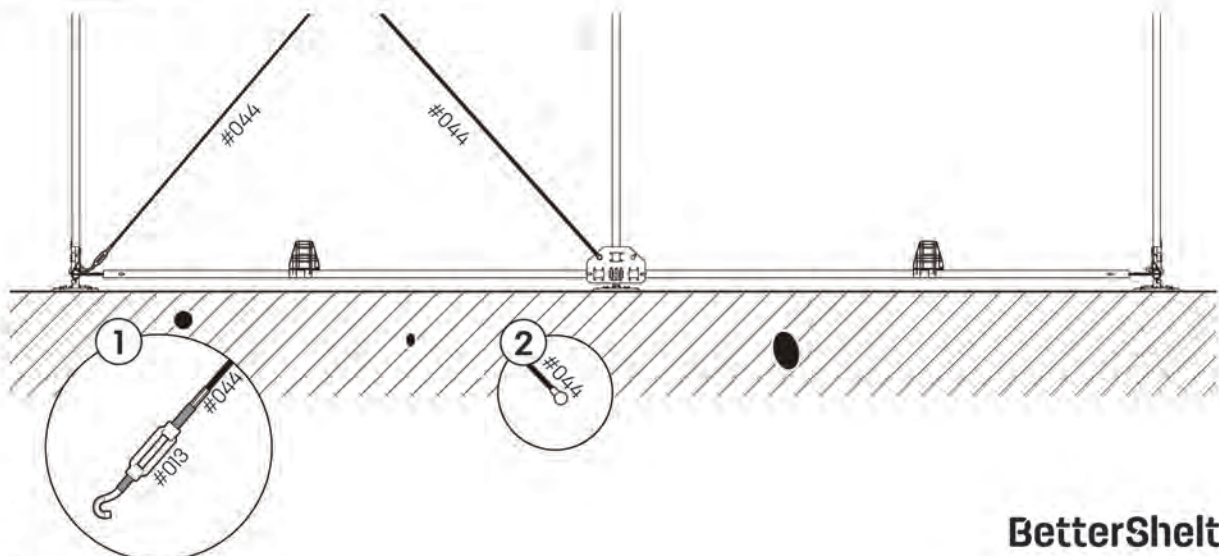
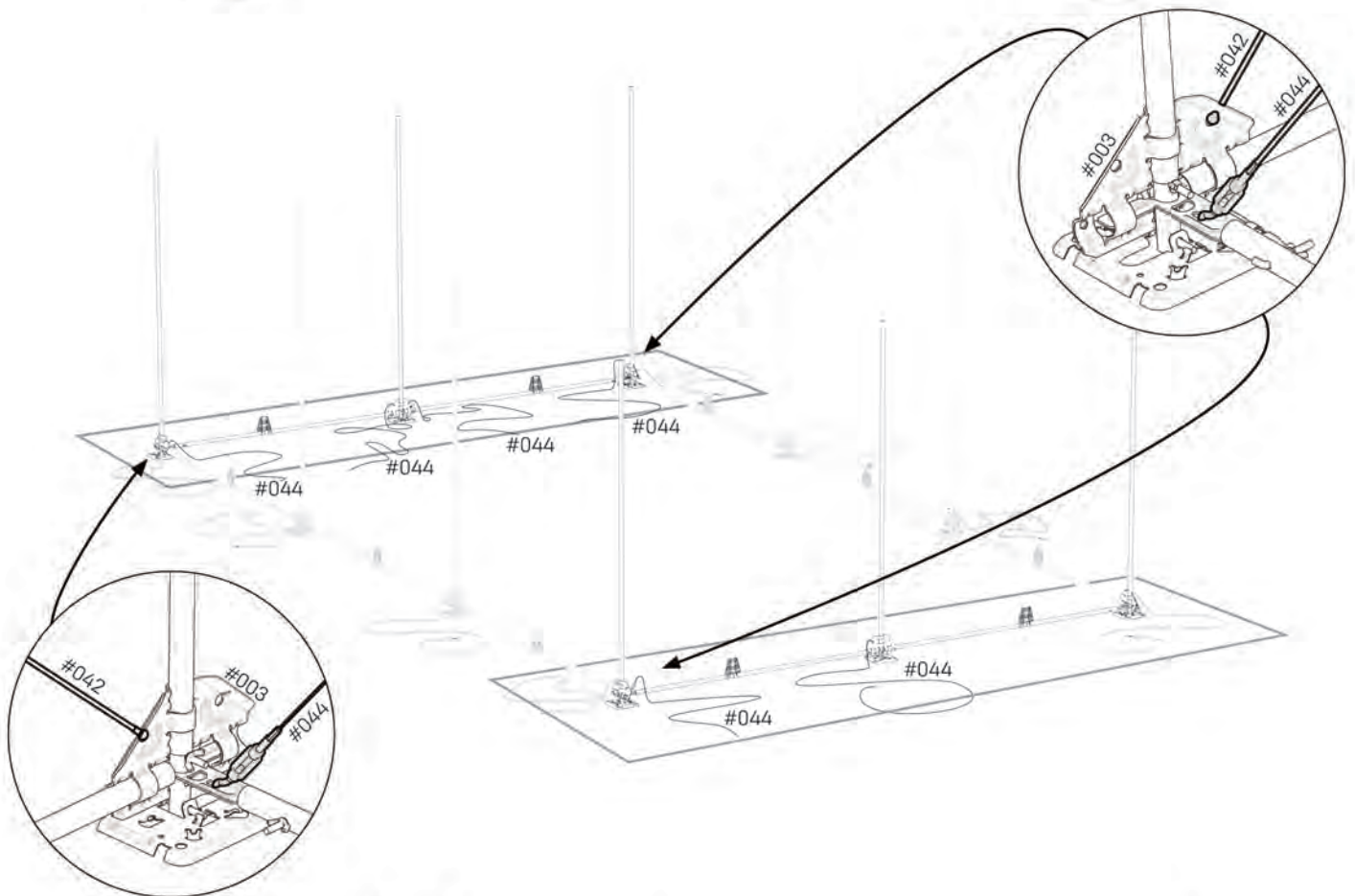
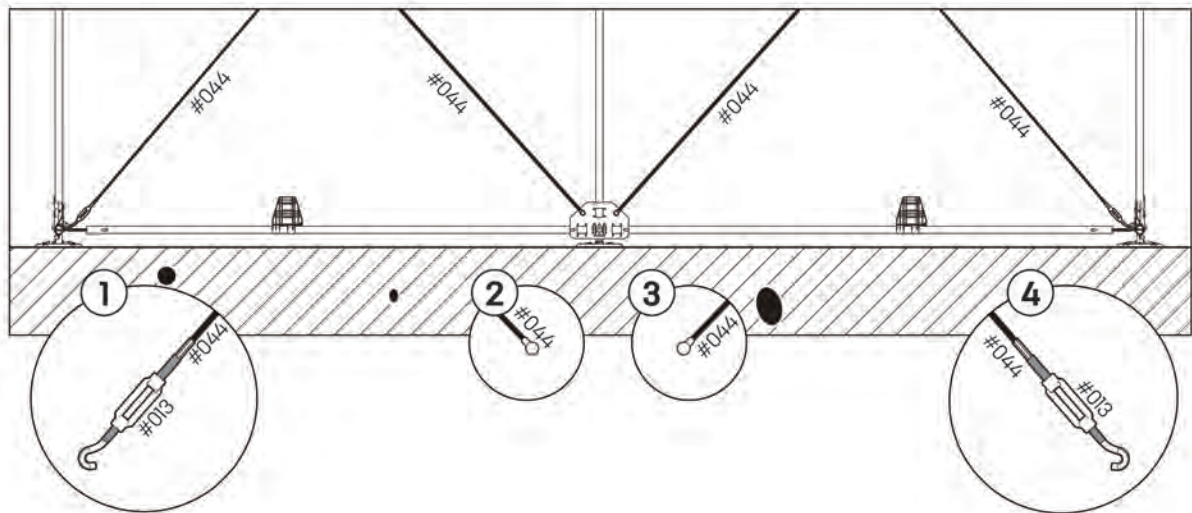


i

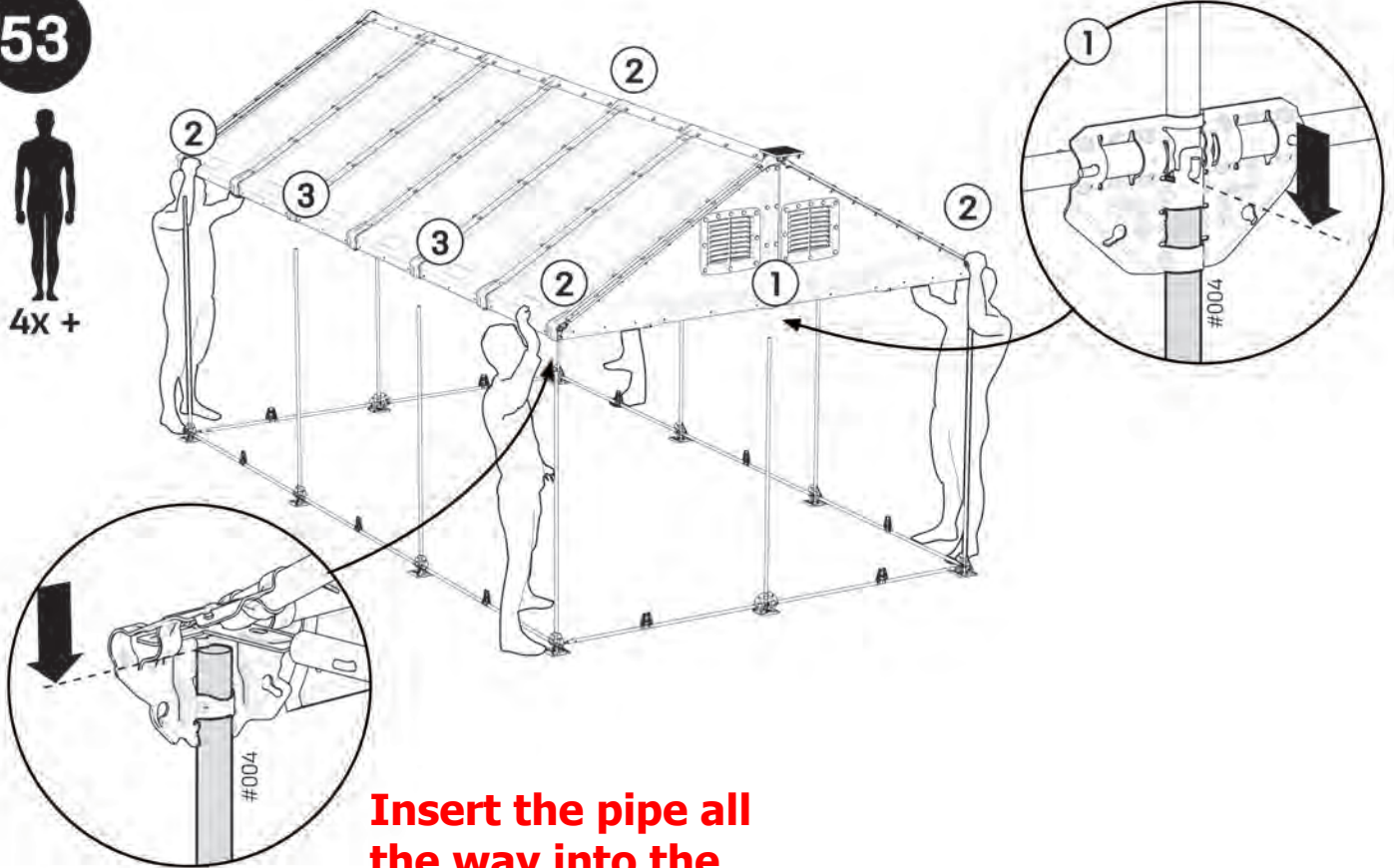
52



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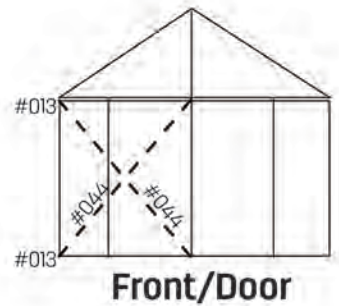
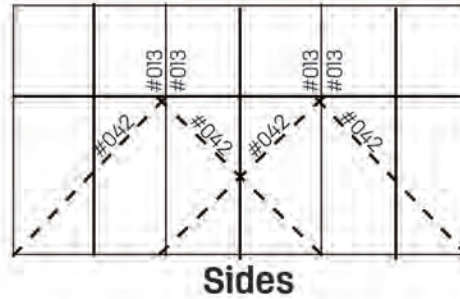
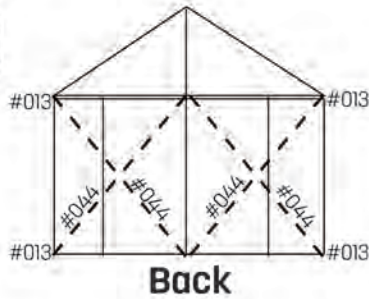


53



Insert the pipe all the way into the joint until the stop.

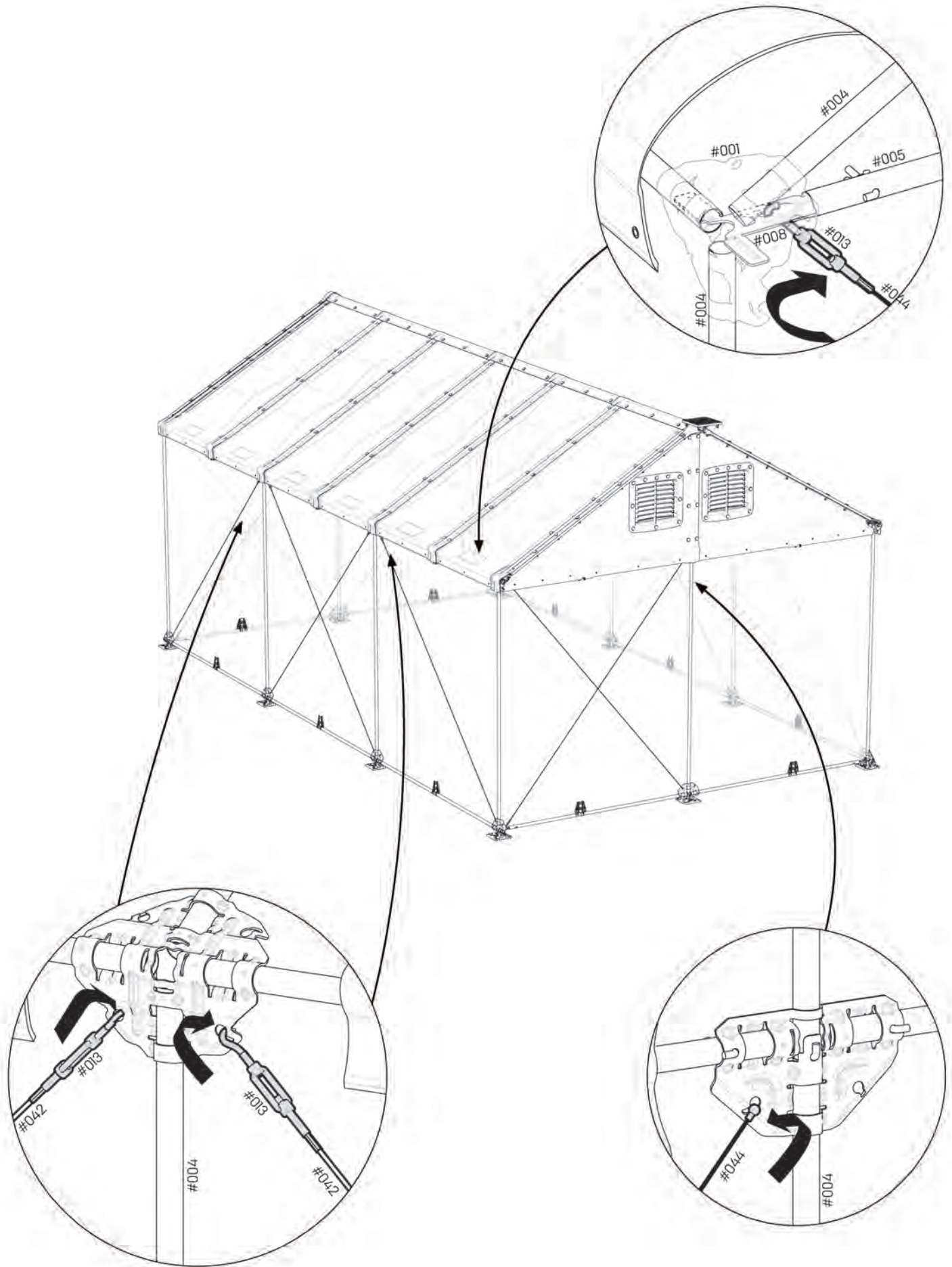
54



i

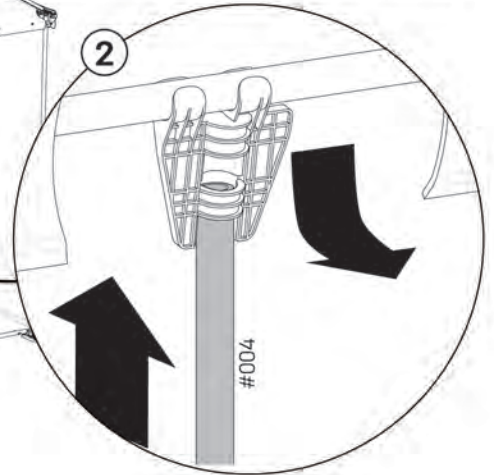
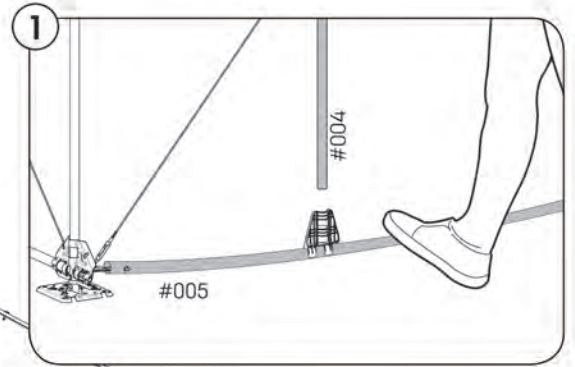
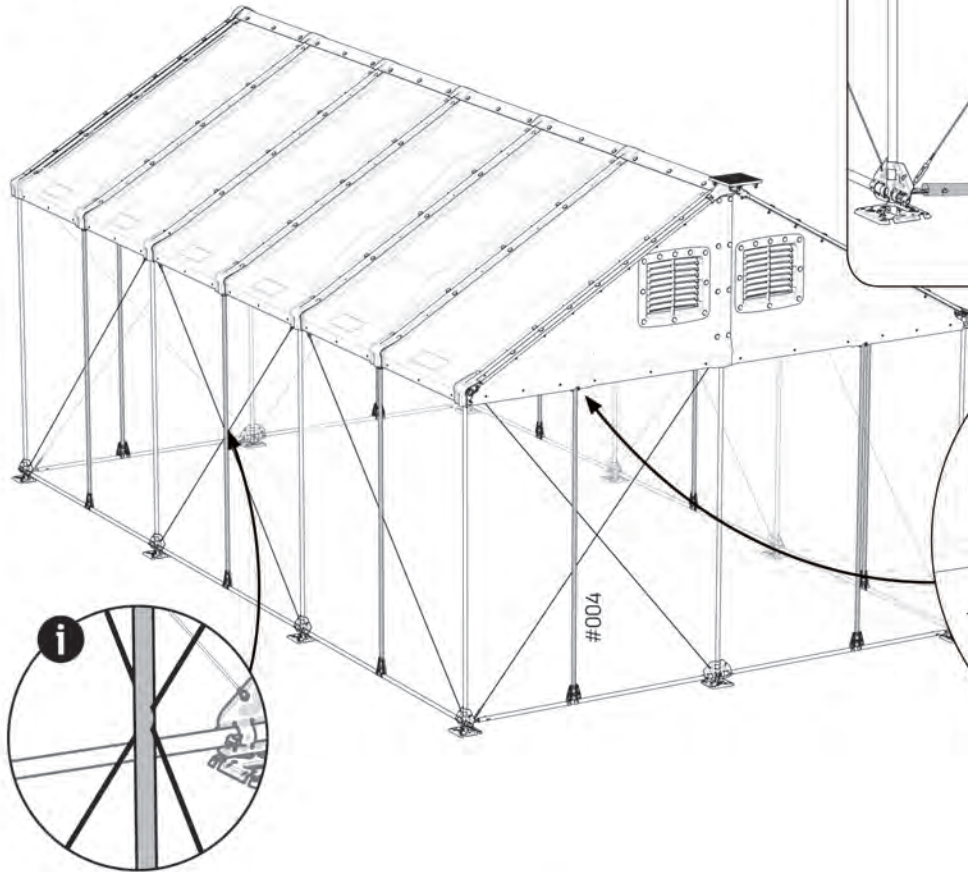


Do not tension fully, just reduce slack evenly across structure.

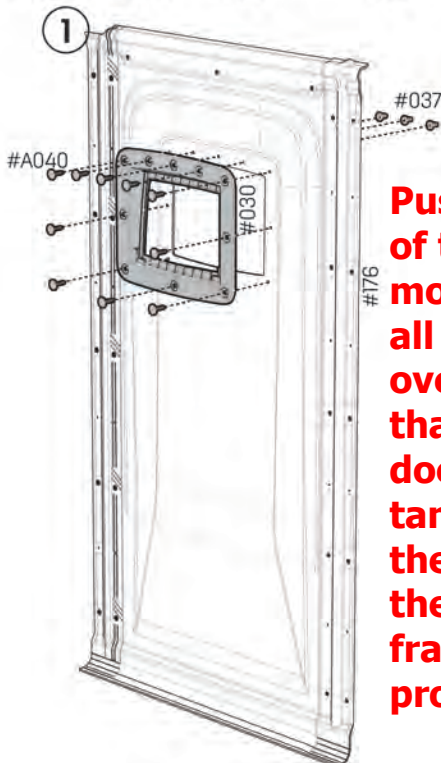
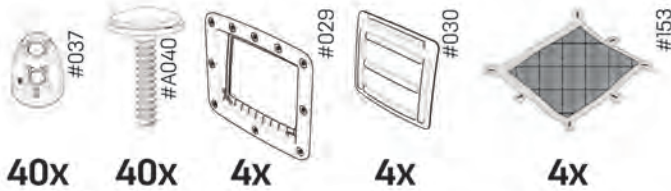


55

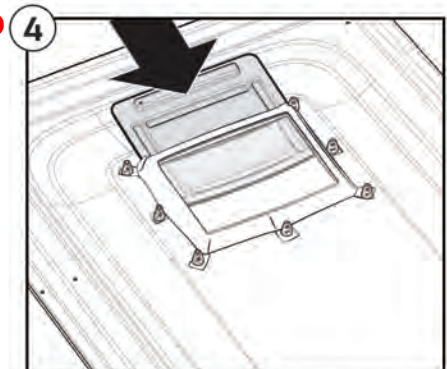
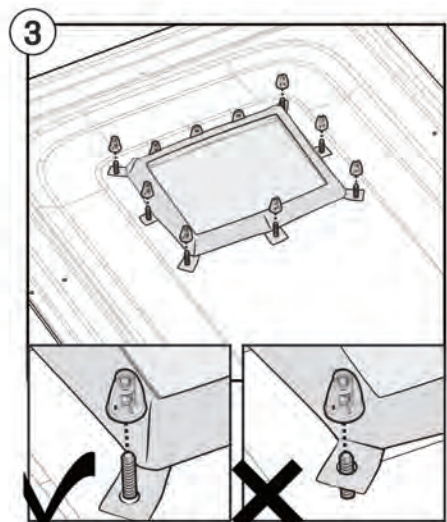
10X #004

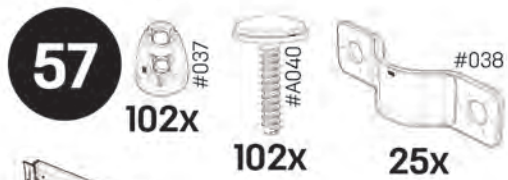


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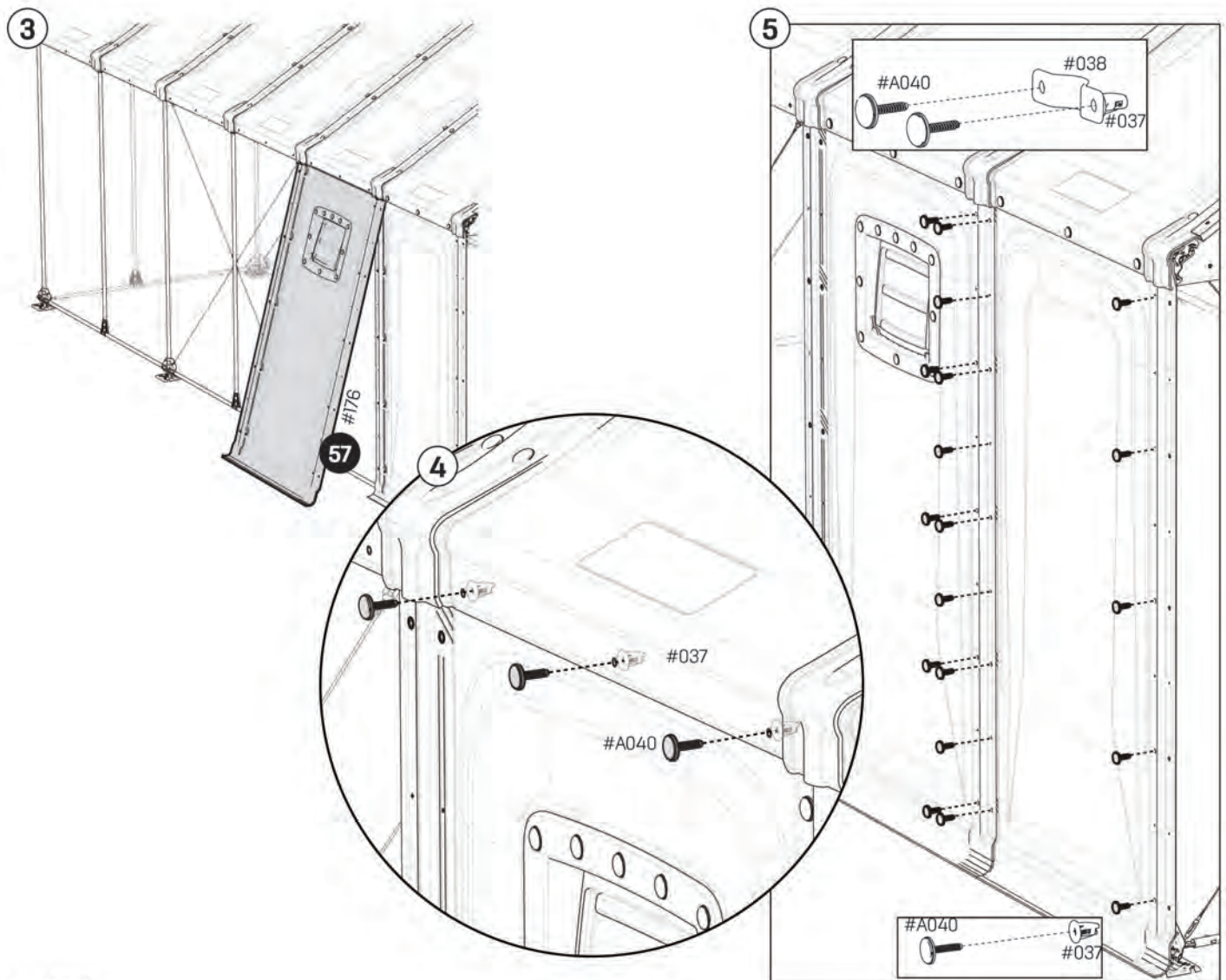
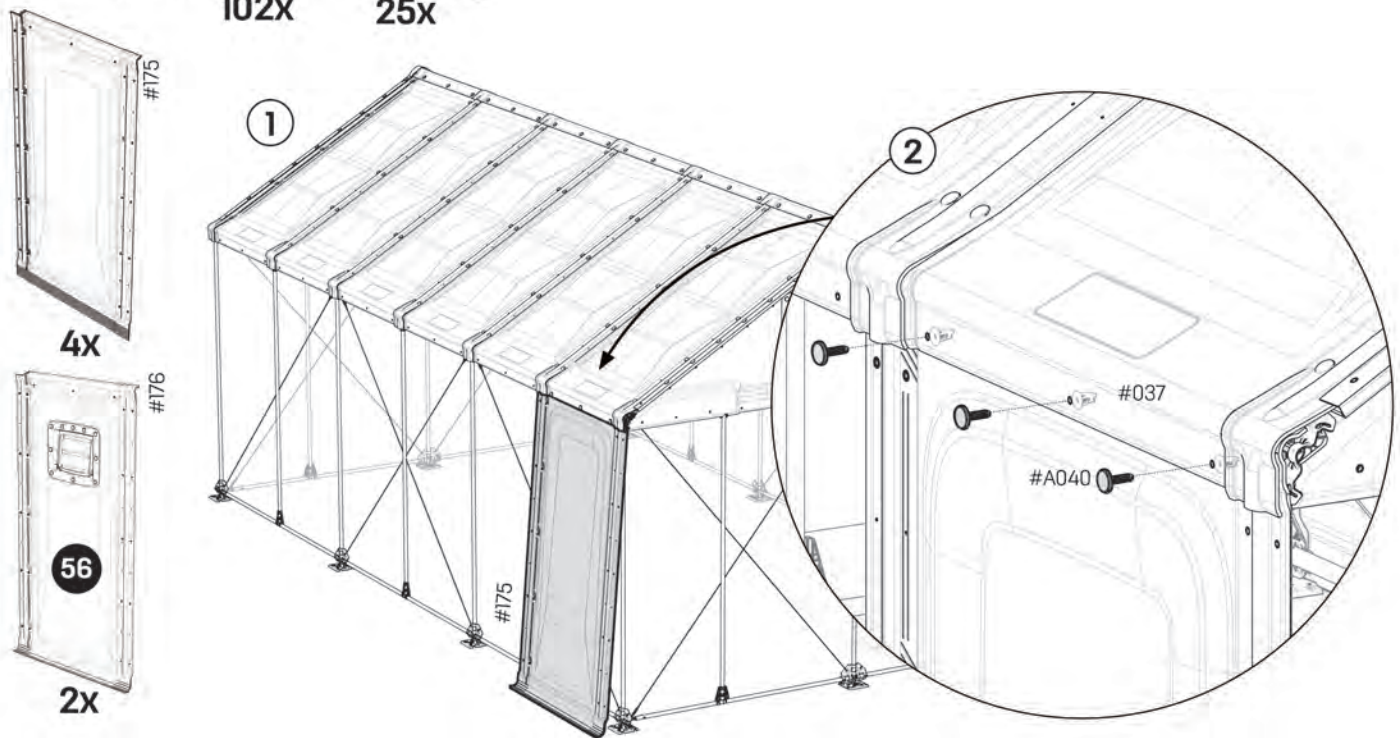


Push the fabric of the mosquito net all the way over the bolt so that the fabric does not get tangled up in the thread and the window frame is rain proof.

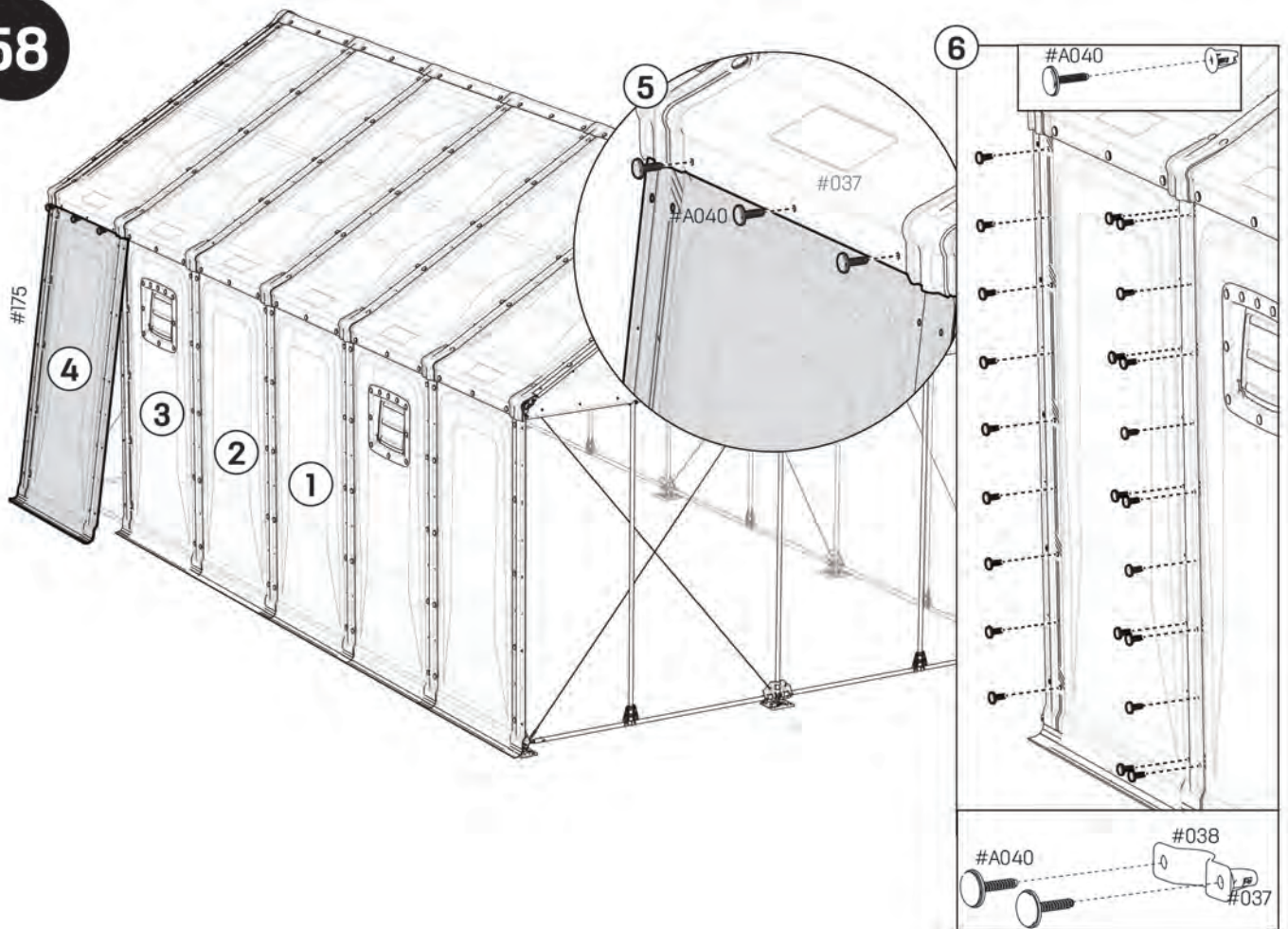




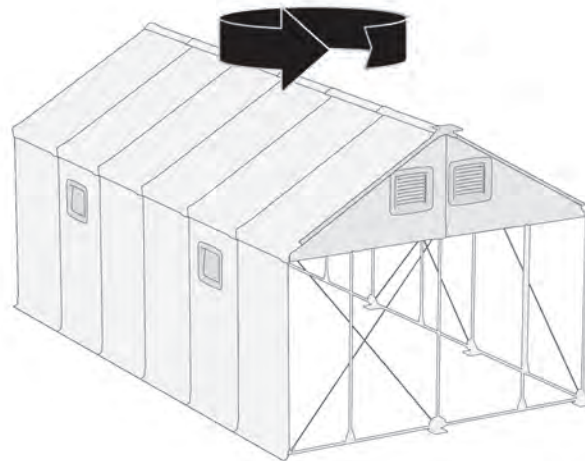
Start wall panel assembly from right to left.



58



59



60



#037



#A040



#038

102x

102x

25x



#175

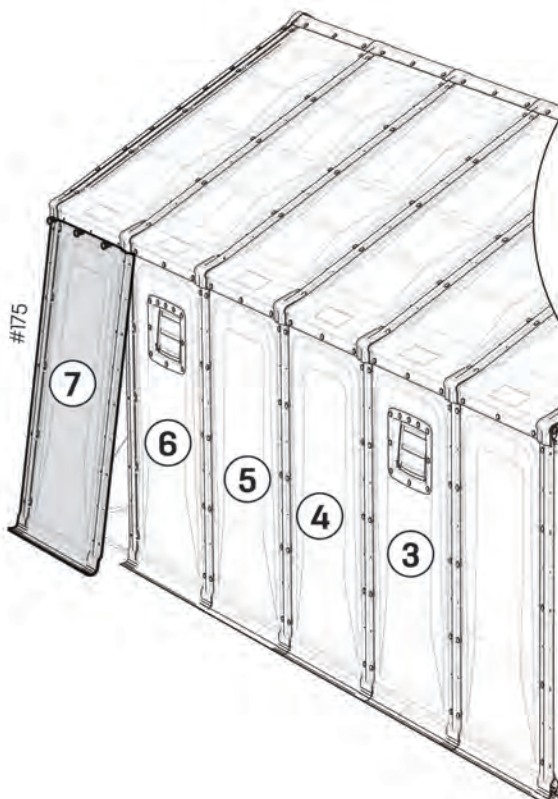
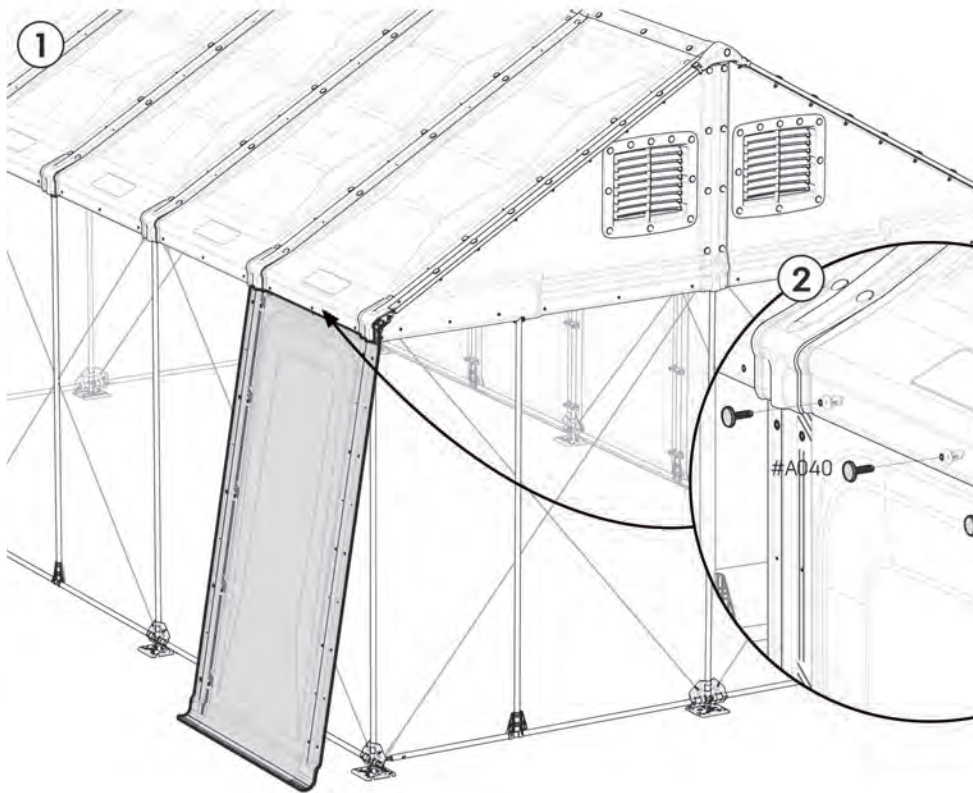
4x



#176

56

2x



#175

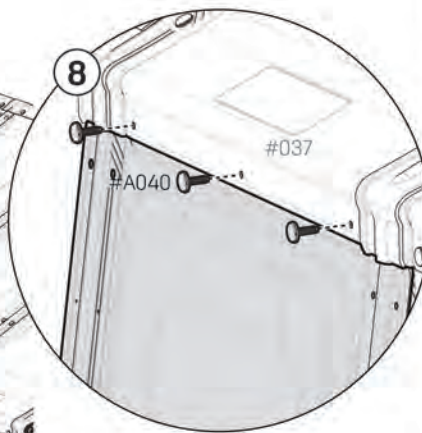
7

6

5

4

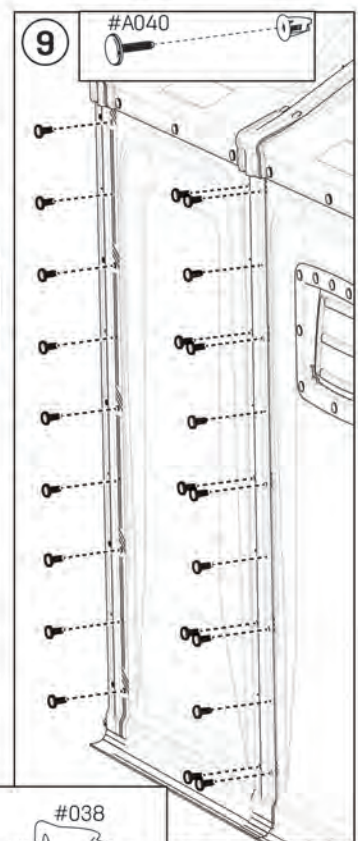
3



8

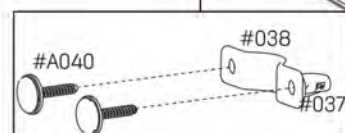
#037

#A040



9

#A040



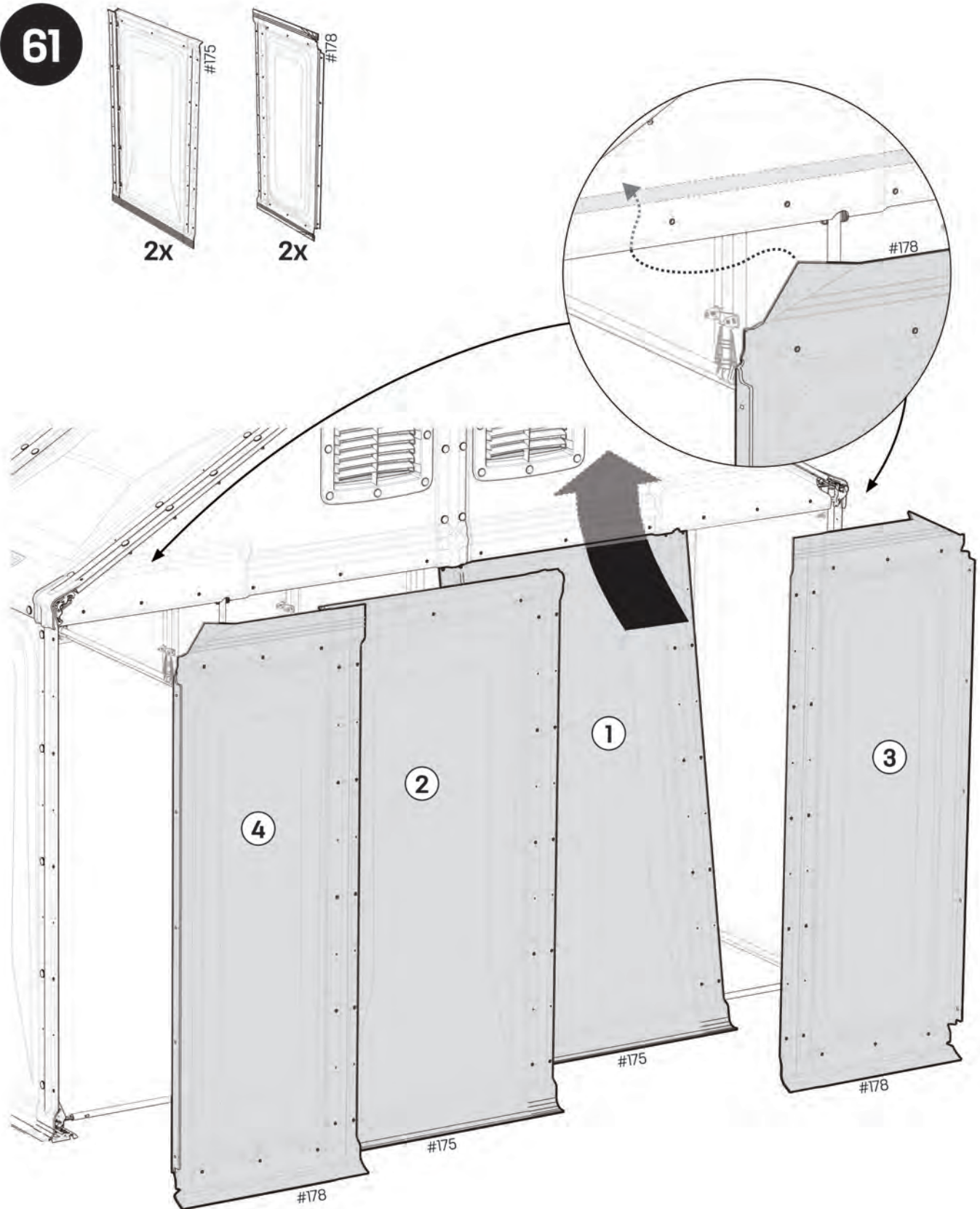
#A040

#038

#037

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61



Check assembly order of panels

62



60x



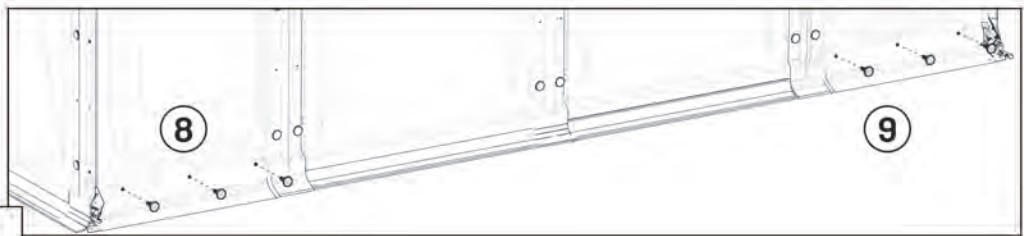
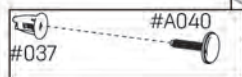
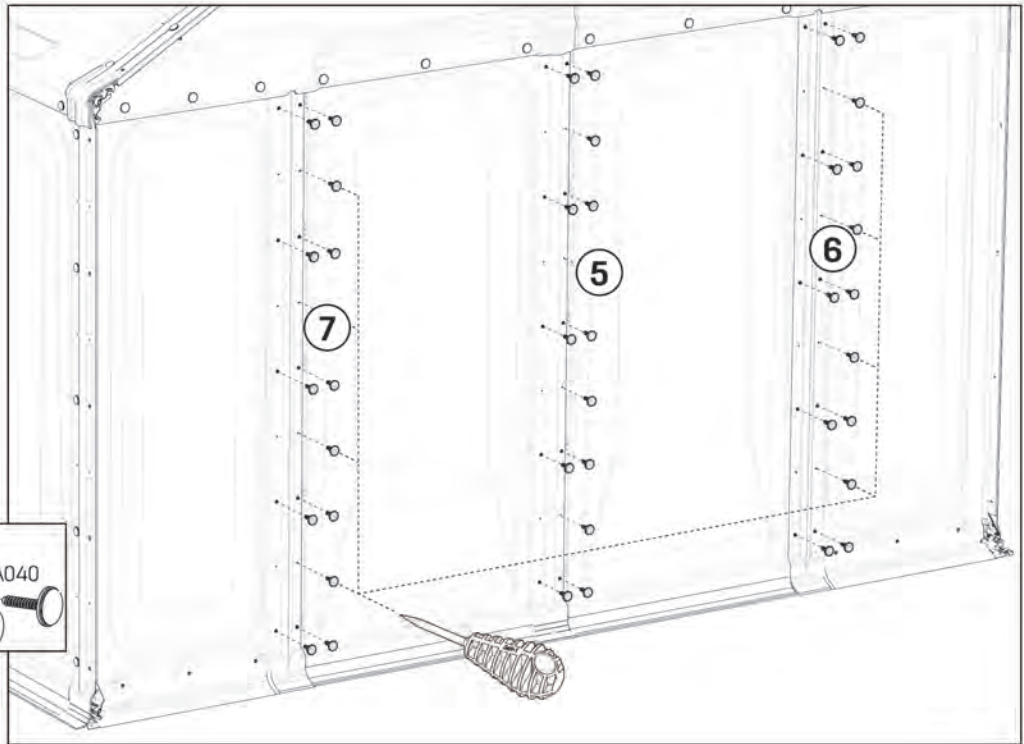
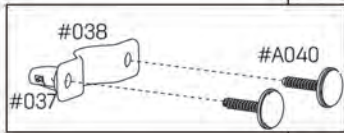
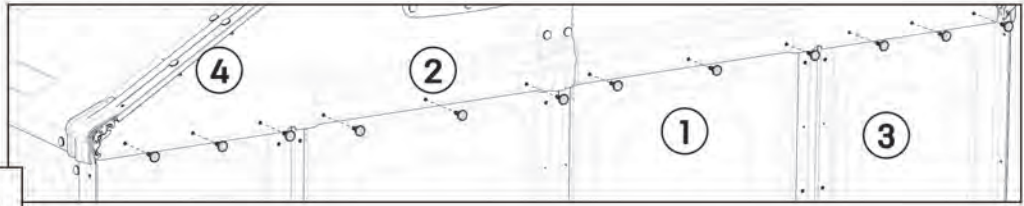
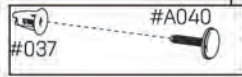
60x



15x



1x



63



20x



20x



2x

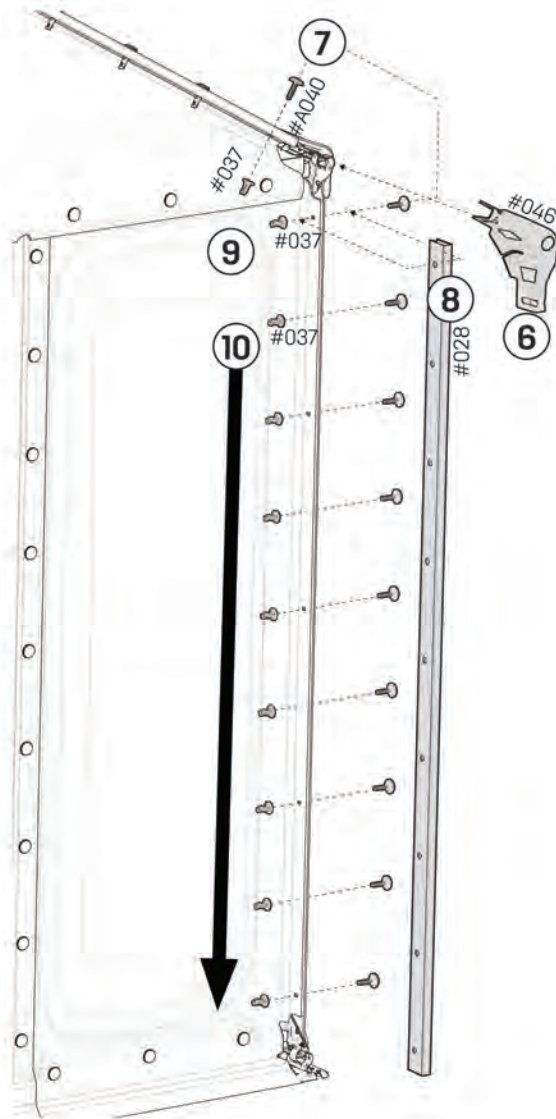
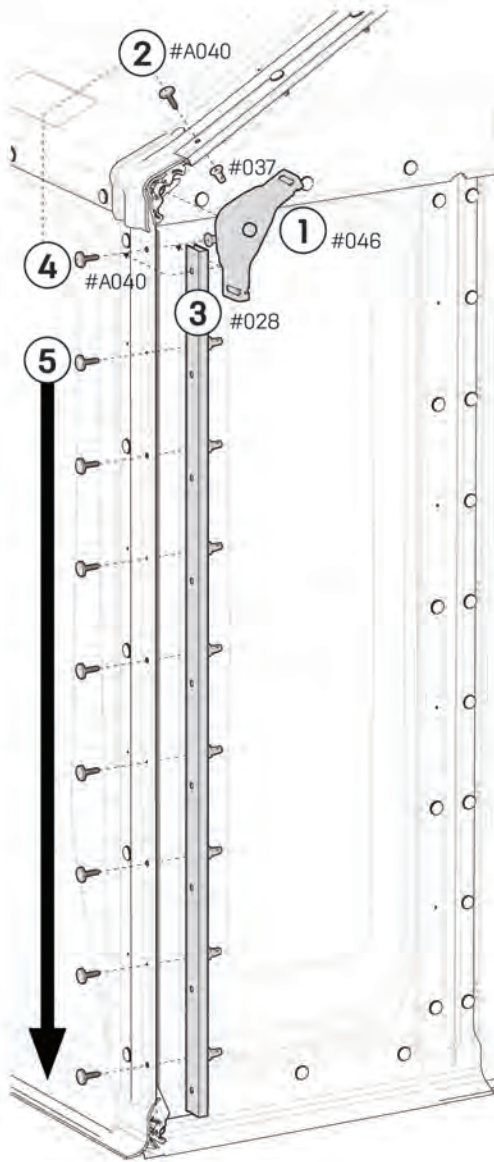


1x

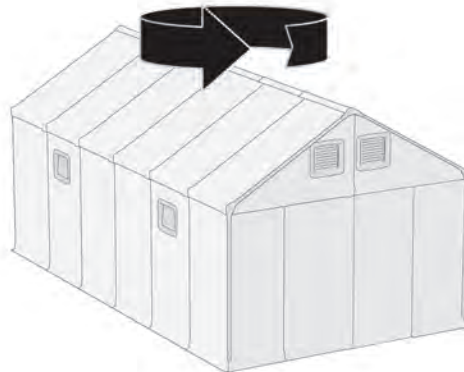


#028

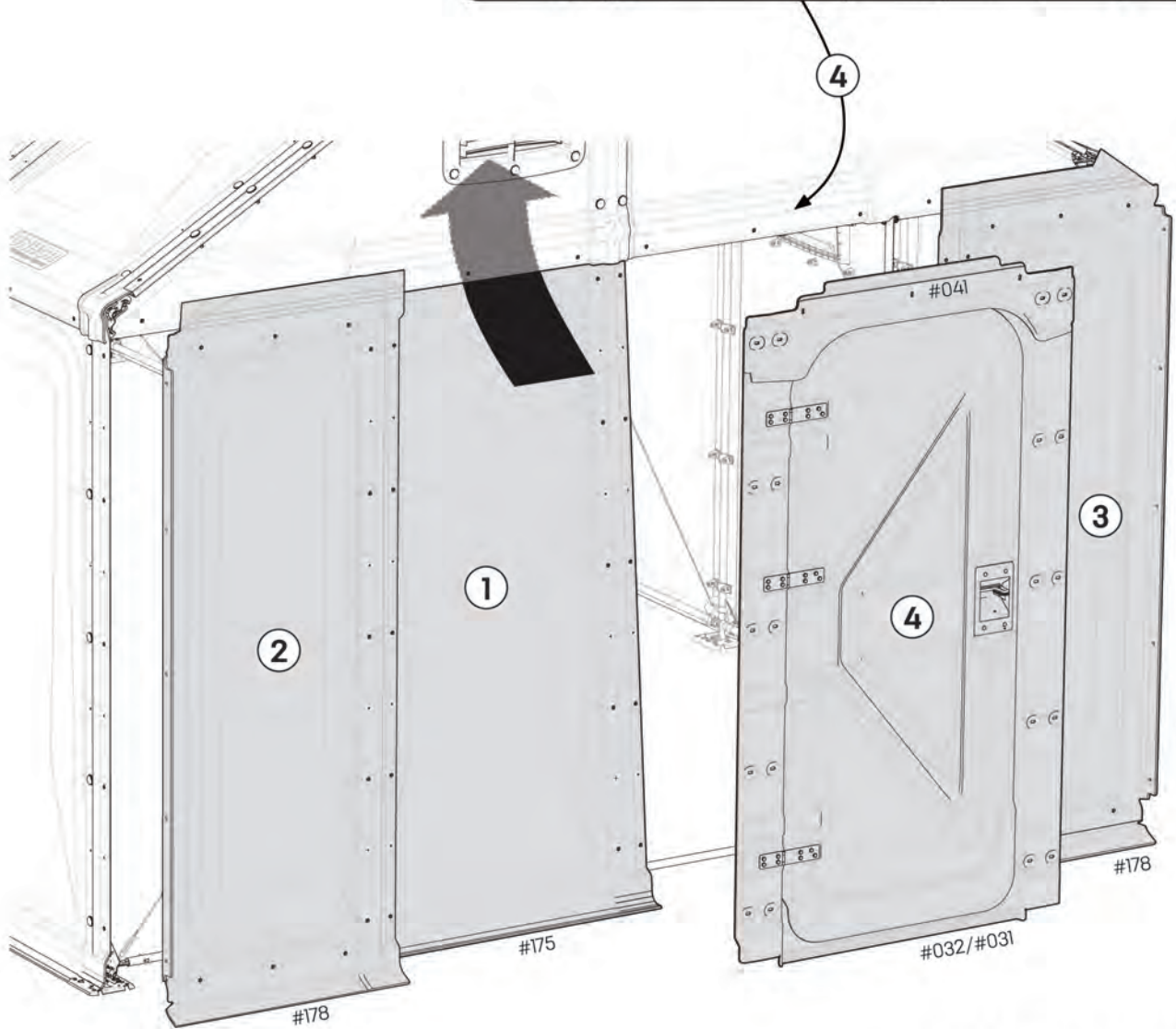
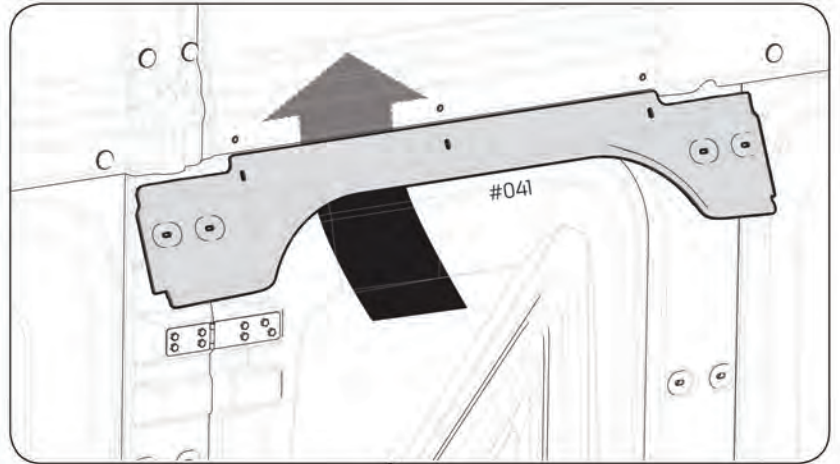
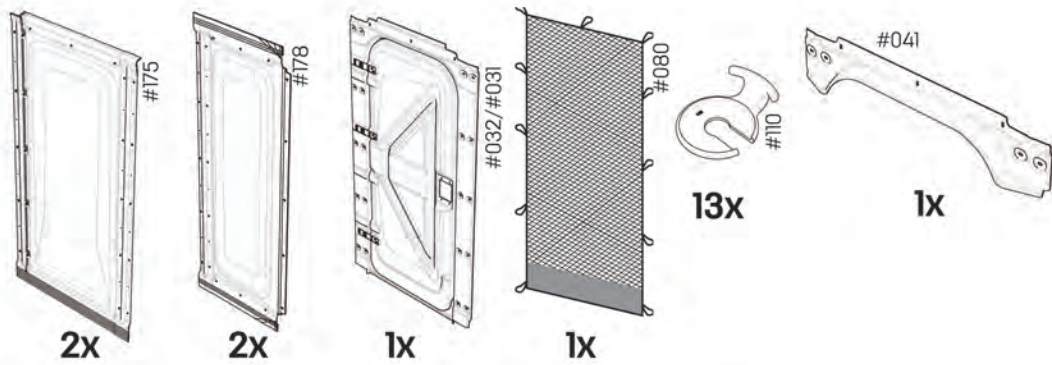
2x



64



65



66



52x



52x



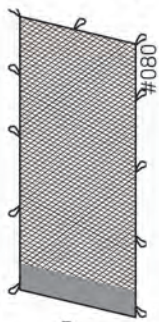
15x



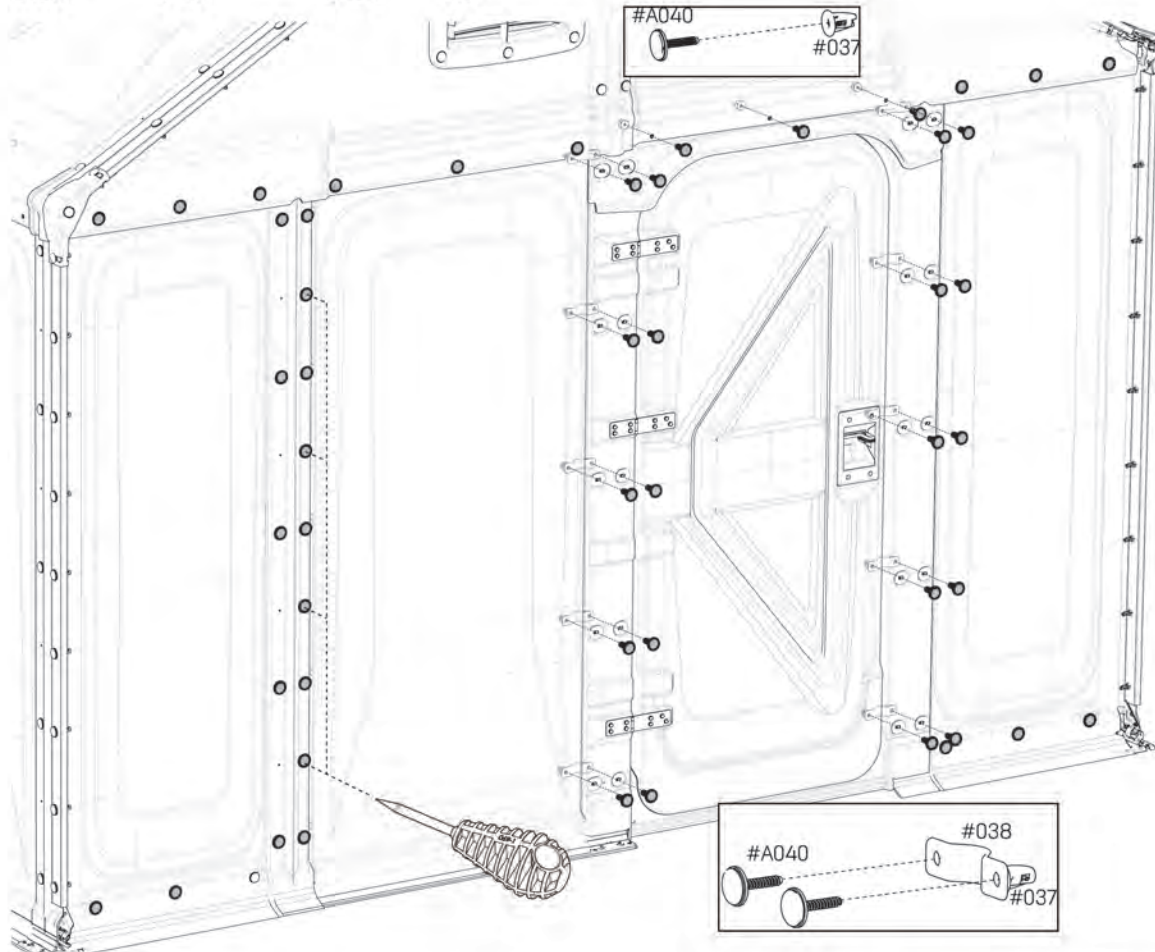
13x



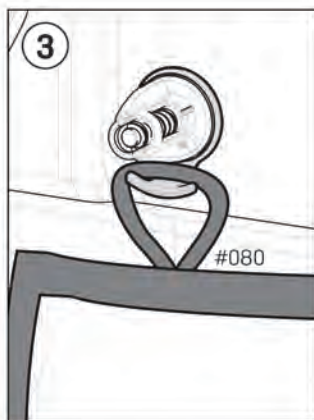
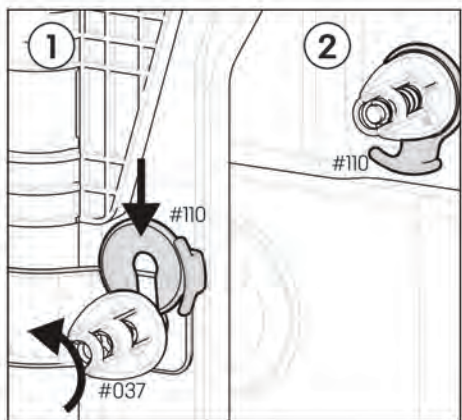
1x



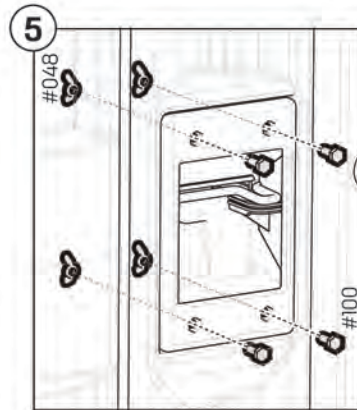
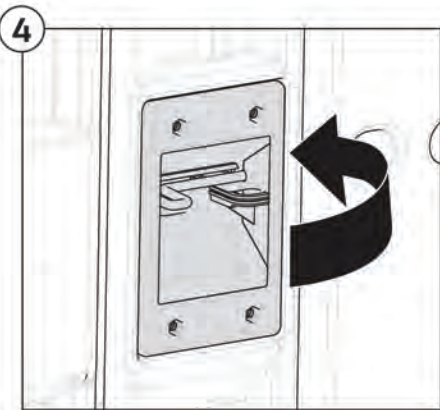
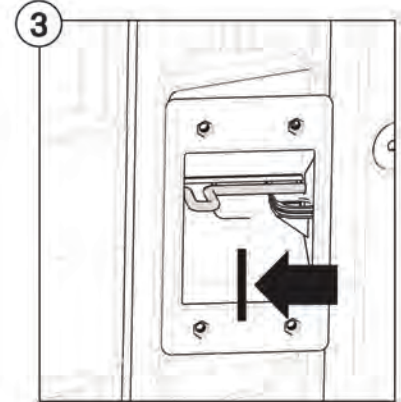
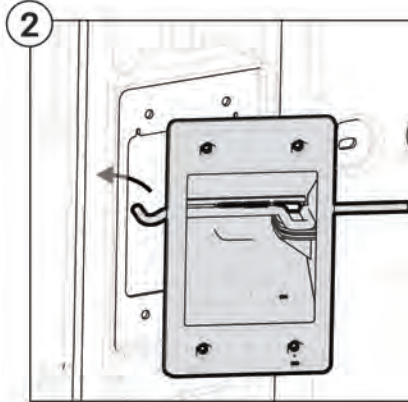
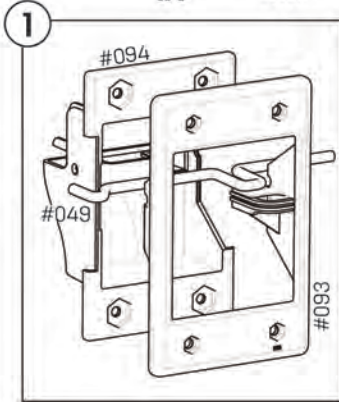
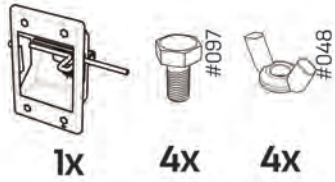
1x



Inside shelter

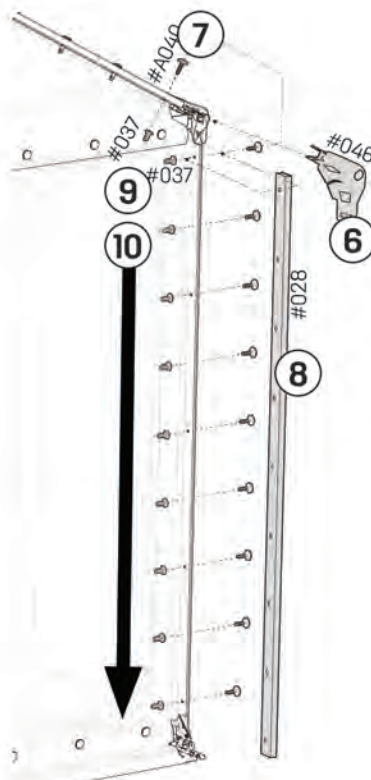
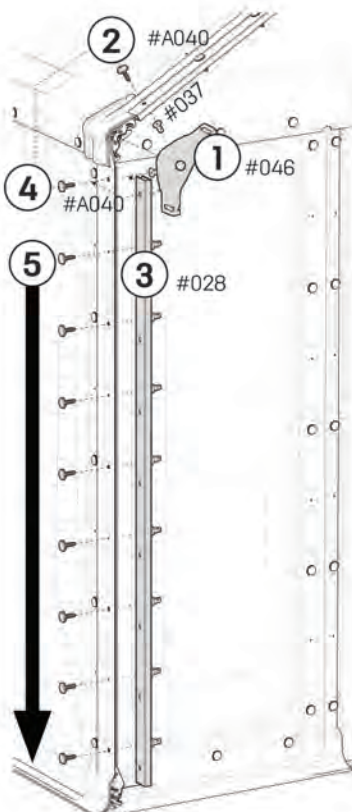
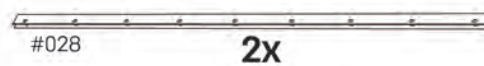


67



68

Repeat step 63





2x

#045

#170

1x

1x

1x

③

①

②

④

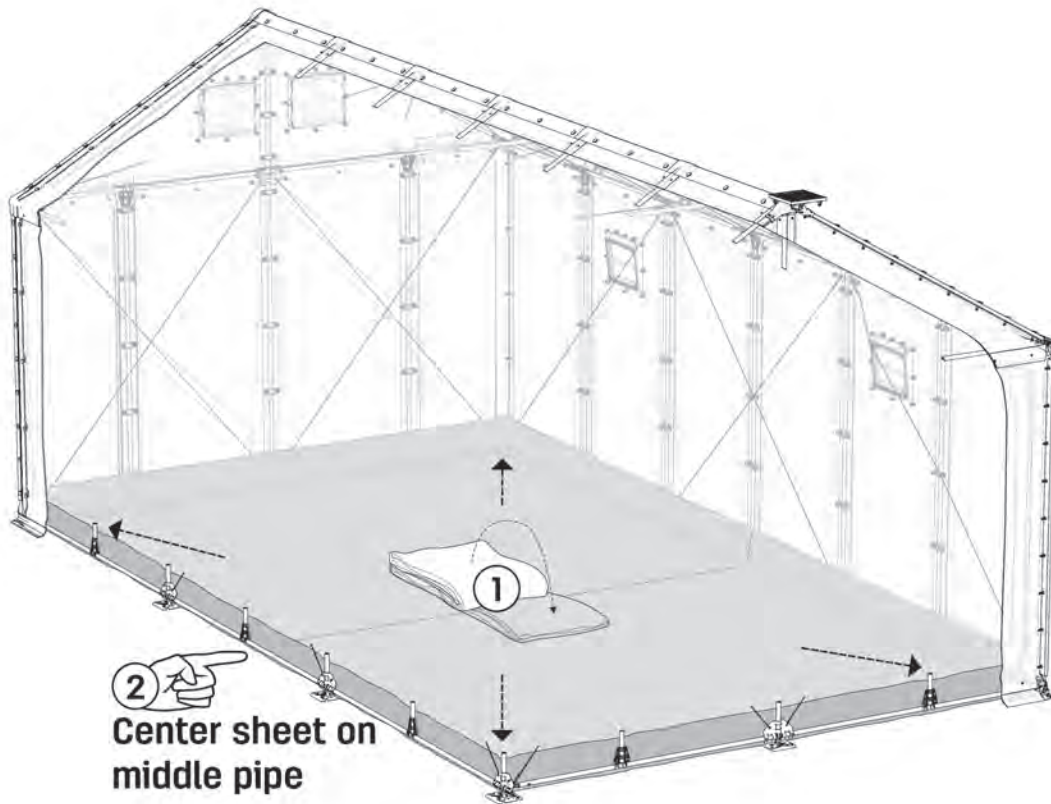
⑥

7

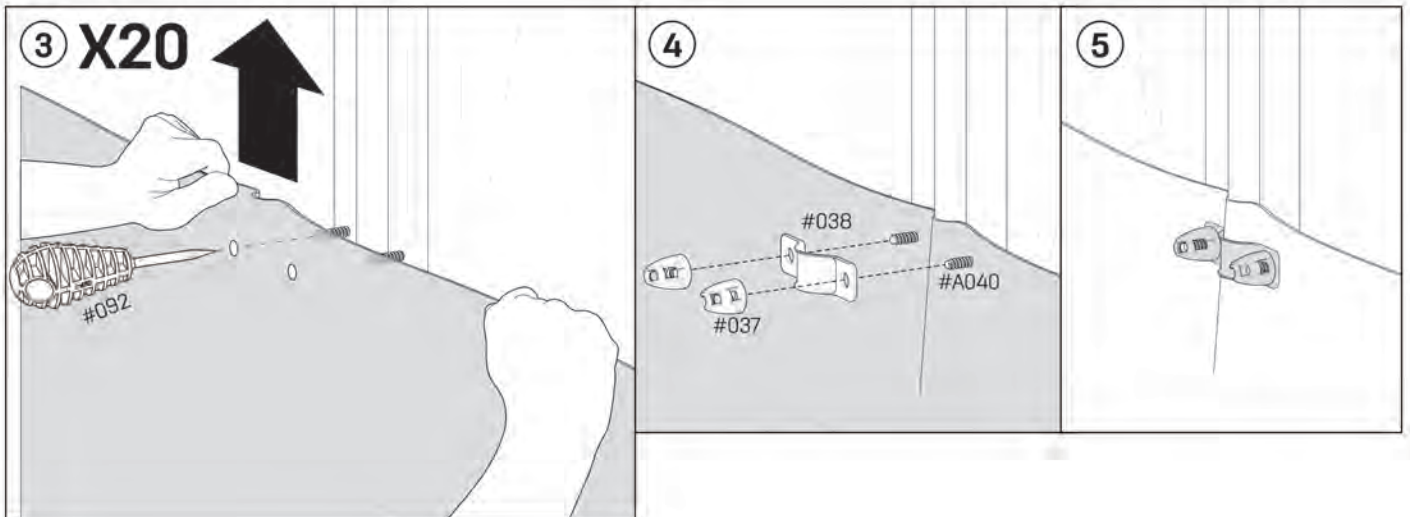
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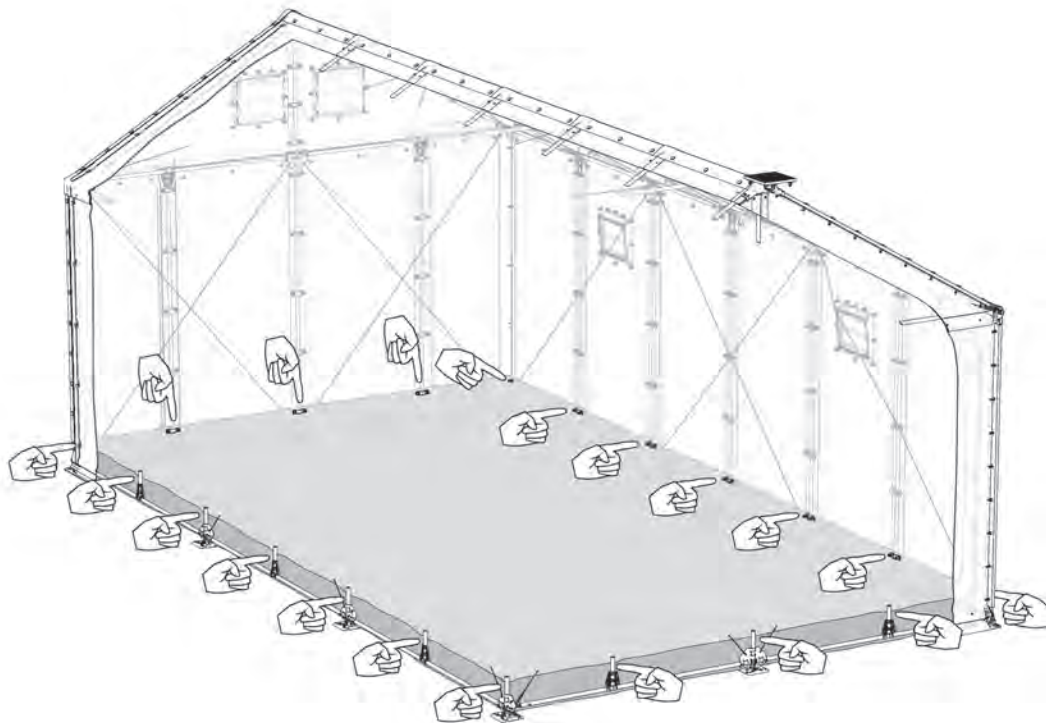
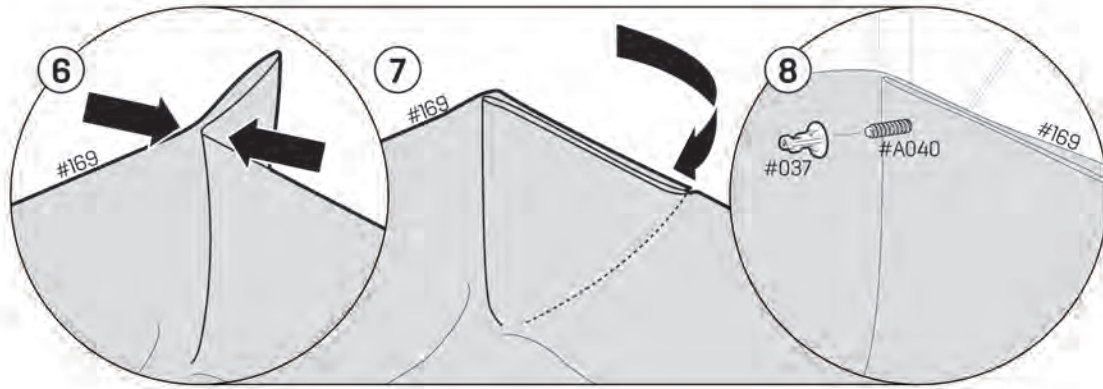
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Spare Part Kit Contents

