Assembly

- Assembly overview and video tutorials
- Assembly manuals
- Maintenance manual
- Common mistakes (check list)
- Contact
Better Shelter assembly overview

1. Identify appropriate location and ground conditions
2. Install anchors and foundation (video 1)(video 2)(video 3)(video 4)(video 5)
3. Assemble roof structure (video 6)(video 7)(video 8)
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)(video 17)
10. Install lamp and divider (video 18)
11. Install floor (video 19)

7 / 8 h the first RHU
4 / 6 h on speed
Important control steps marked in red
خطوات مهمة للتحكم ملونة باللون الأحمر

Better Shelter
Pre Assembly Manual

Manual de Montaje
Manuel de Montage
Montageanleitung
Manuale di Montaggio
1

Max 6 degrees slope
CONTENTS Box A
Better Shelter
A1 _ Foundation
Assembly Manual

Manual de Montaje
Manuel de Montage
Montageanleitung
Manuale di Montaggio
CONTENTS Box A1

Steel

10x #011 (50cm)
4x #006 (49cm)
6x #004 (180cm)

Legend

1 2 3 4
Main steps of assembly
Sequence of assembly
Insertion path
Number of parts in step or total
Part ID number
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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Hole directions simplified

Recommended number of holes above ground

1
2
3
4
Repeat Step 5
Make sure L-bolt connects ground plate with ground pipe. 10 in total.
Make sure all 10 ground anchors are fully attached to each ground plate.

تأكد من توصيل جميع المراسى الأرضية العشرة بالكامل بكل صفيحة أرضية.
Make sure all 10 joints are mounted the right way, leveled and attached to the ground pipes with L-bolts and wing nuts.

تأكد من تثبيت جميع الوصلات العشرة بالطريقة الصحيحة وتسويتها وتوظيفها بالمواسير الأرضية باستخدام الرماغ والصواميل المجينة.
20

10x

21

BOX A

BOX A2

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A2 _ Roof
Assembly Manual

Manual de Montaje
Manuel de Montage
Montageanleitung
Manuale di Montaggio
Attach 4 L-bolts with wing nuts in each roof truss joint.

قم بتركيب الأربع براغي مع الصواميل المجنحة في كل مفصل جمايل السقف
23

1

3x #004

2

#004

#004

#004

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Make sure the centre joint is mounted with the correct orientation. Pointy side down.
Make sure L-bolts are inserted with wing nuts.

تأكد من إدخال البراغي مع الصواميل المجنحة
Pipes should be over the wires.

يجب أن تكون المواسير فوق الأسلاك
Start applying panels from right to left.
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.
Make sure both panels are fully inserted in the gable/U-profile
تأكد من إدخال كلتا اللوحتين بالكامل في الجملون مقطع خرف U
Better Shelter

PV System

Assembly Manual

Manual de Montaje
Manuel de Montage
Montageanleitung
Manuale di Montaggio
CONTENTS PV Panel System

1x #125
1x #048
4x #132
4x #144
1x #056
1x
2x #171
1x #188
1x
1x #187
1x

CONTENTS
PV Lamp
(Box B)

1x

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Version 3.0 2070
Insert cable inside the pipe before metal bolt goes through the pipe.
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B _ Walls Assembly

Manual

Manual de Montaje
Manuel de Montage
Montageanleitung
Manuale di Montaggio
Insert pipes all the way until it stops against the L-bolt

أدخل المواسير على طول المسافة حتى تتوقف أمام البرغي
Insert the pipe all the way into the joint until the stop.

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

ابدأ تجميع لوحة الحائط من اليمين إلى اليسار.
Check assembly order of panels
تحقق من تجميع الألواح بالترتيب الصحيح
Center sheet on middle pipe

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Spare Part Kit Contents

20x 20x 10x 2x 2x

1x 1x 1x 1x

#038 #058 #181*

#152 #153

*Spare Port Panel

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**Frequency of use**
Frequency of using the document – Monthly

**Disposition**
This document starts with displaying the spare parts kit content and identification of parts. If any part is broken or missing, please replace by original parts. If part are no longer present, contact the shelter provider.

**Disclaimer**
This document does not consider faulty setups, nor does it solve issues that occur to the shelter due to weather influences (wind, heavy rains, land slides, unstable soil), animals or improper use.
This document is aimed to be used by the user/inhabitant of the shelter.

**Legend**

<table>
<thead>
<tr>
<th>Not Ok</th>
<th>Action</th>
<th>OK</th>
</tr>
</thead>
<tbody>
<tr>
<td>✗</td>
<td>→</td>
<td>✓</td>
</tr>
</tbody>
</table>

**Spare Part Kit**

*Contents*

- 1x Mosquito net
- 10x Plastic Bracket
- 20x Plastic Nut
- 1x Plastic Joint
- 2x Mosquito Net Window
- 2x Spare Part Panel
- 20x Plastic Bolt & Gasket
- 2x L-Bolt
- 2x Wing Nut

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Plastic joint attached to horizontal pipes of wall and roof (32x).
2 Wire Bracings (32x)
3 L-Bolts & Wing Nuts

3.1

3.2

3.3
Horizontal roof trusses are attached with at least 4 tensioned L-bolts and metal wingnuts on each side (16x).
Wall panel mud flaps covered by soil, concrete or stones.
All profiles and gable caps in position.

6.1

6.2
All plastic bolts and wingnuts fastened tightly (6.5x).
Panels do not contain holes (12x)
All metal bolts and wing nuts in place in the door locking system (4x).
All mosquito nets at window and ventilation openings in place (2x4).
All window and ventilation frames in place and hatches are securely fastened.
Regularly clean the RHU components with a cloth, warm water and mild detergent.
Hope starts with a home

Common mistakes guide
**Common mistake**

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

* Will lead to the risk in 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.

Correct approach

To hammer the anchor to the correct depth.

* If the anchor is not hammered deep enough, it will not take sufficient load which could cause the shelter to blow away. If the anchor is hammered too deep, there will not be enough cable left to attach to the ground plate.
Common mistake

Hammering the ground anchor too far from the ground plate.

* The anchor will not be deep enough into the soil to take loads and there is a risk of the shelter blowing away.

Correct approach

To hammer the ground anchor close to the ground plate.
Common mistake

Placing the pipes with holes facing the wrong direction.

If the holes are placed in the wrong direction, it will not be possible to insert the L-bolts to attach the ground pipe, joint and wall column. This might result in the shelter blowing away in the event of strong winds.

Correct approach

To 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 in the event of exposure 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.

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.
The purpose of this document is to show implementing partners the options for using structures or RHUs.

If you find any inconsistency in the content of this document or have any suggestions, we would love to hear from you.

We facilitate a phone number to make technical communication as quick and easy as possible.

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