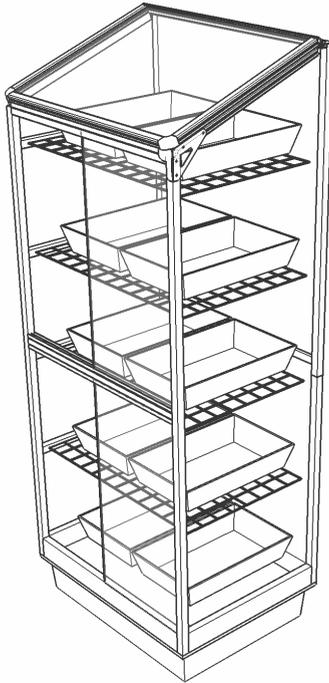




Setup guide

Model S10

Greenhouse only, Solar 3-season and 4-season versions



4-season shown above

Thank you for buying a Harvst greenhouse.

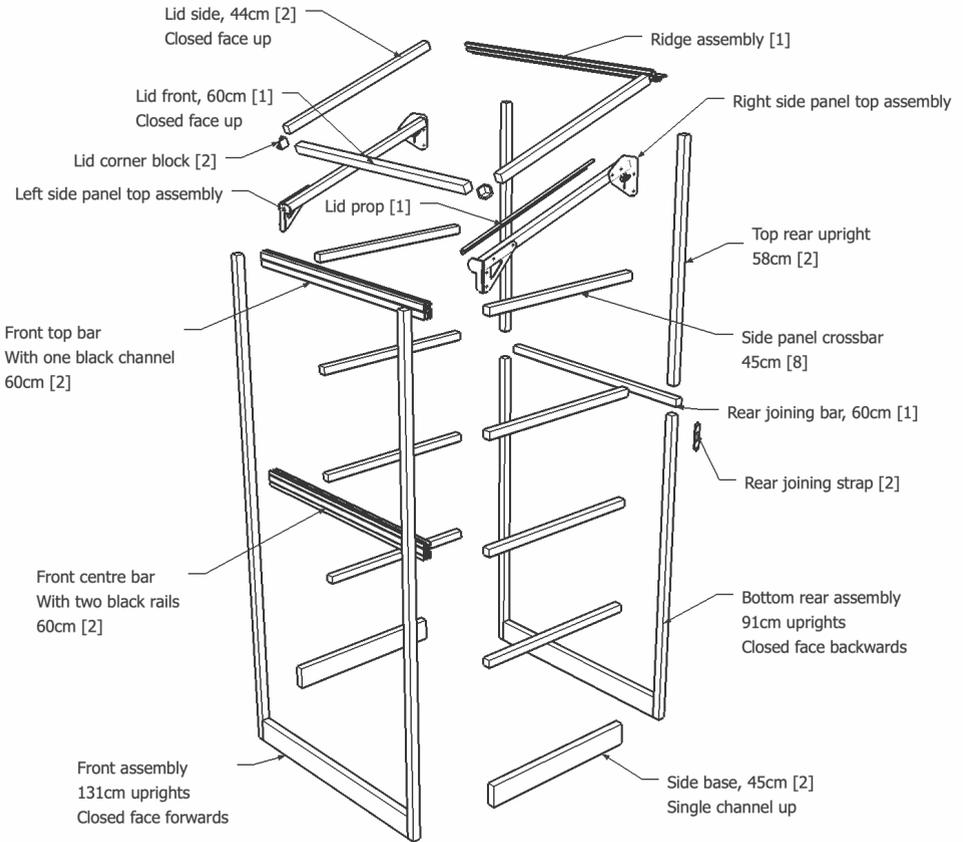
If you have any questions while setting up, send us an email
(help@harvst.co.uk) or have a look at our forums at

<https://grow.harvst.co.uk>

There are also videos at

<https://www.harvst.co.uk/setup>

Exploded diagram



Visit www.harvst.co.uk/setup for more information, videos and photos

Parts list (aluminium pieces)



440mm **x2**
Lid sides with plastic corners



580mm **x2**
Rear top upright



450mm Side panel crossbar
x8



1308mm **x2**
Front upright



910mm **x2**
Rear lower upright



600mm **x2**
Lid front & rear crossbar



600mm **x1**
Front upper crossbar
(box profile as alternative)



610mm Shelf support
x4 GH / Solar models
x8 4-season model



600mm **x1**
Front centre crossbar



420mm **x1**
With one hole
Lid prop

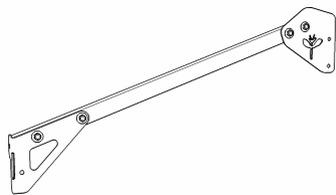


450mm **x2**
Side base parts

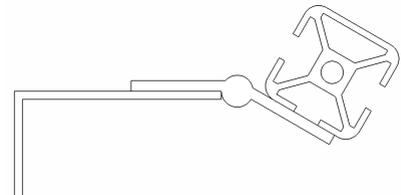


600mm **x2**
Front and rear base parts

Made up as an assembly with uprights.

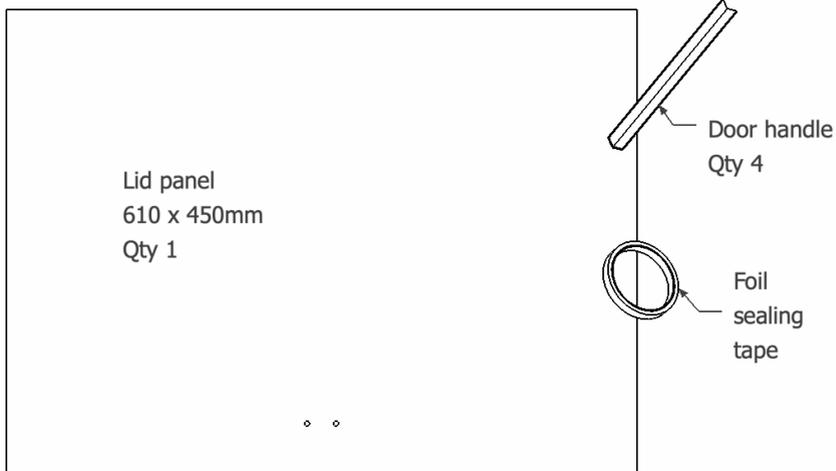
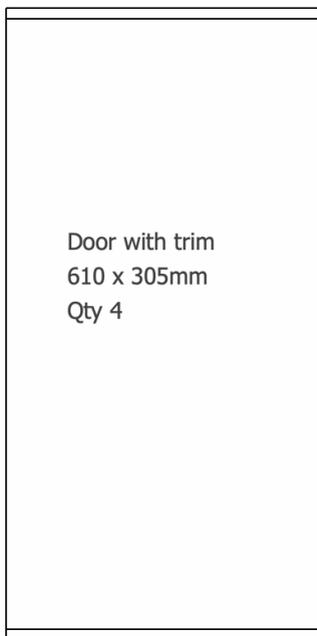
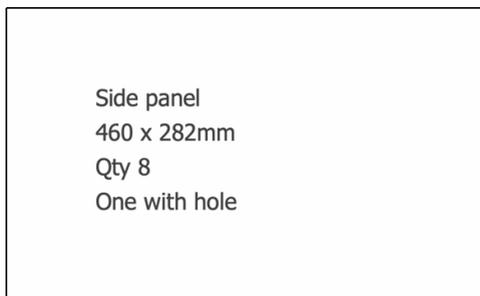
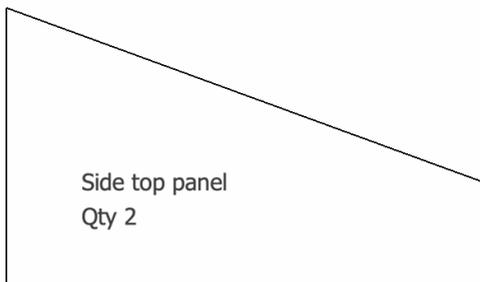


Side panel top assembly **x2**
One left and one right

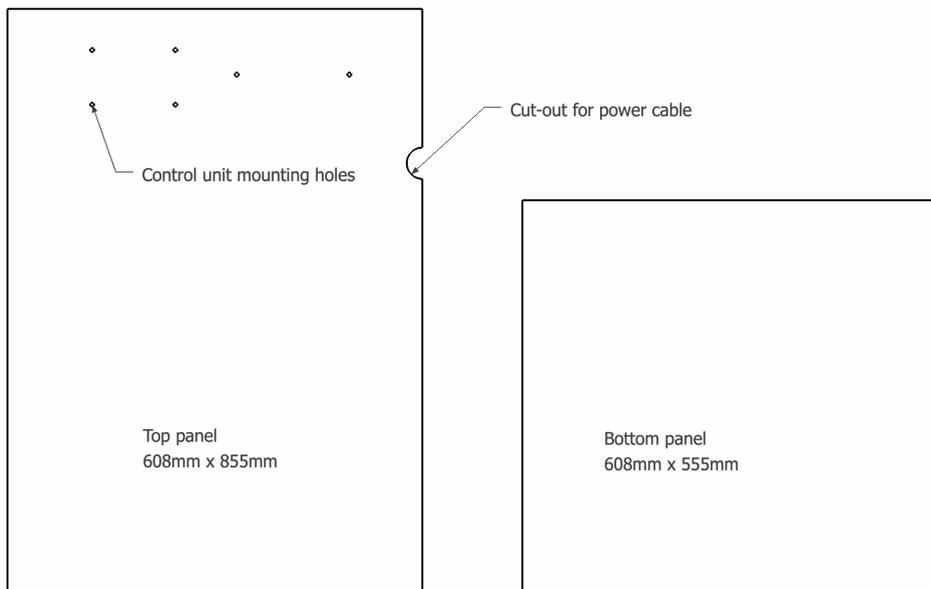


Ridge assembly (with hinge) **x1**

Parts - clear panels



Parts - rear panels



Parts - other

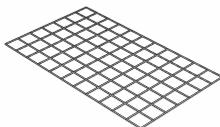
Tools provided

3mm allen key
8mm spanner
Pozidrive screwdriver

Tools required

Tape measure
Secateurs for cutting pipe

Mesh shelves



You will also have mesh shelves and shelf supports;

2 shelves for greenhouse-only and solar models.
4 shelves for 4-season models.

Fixings and small parts



4.5 x 30 screw **x12**



M5 x 8mm **x14**



M5 nut **x14**



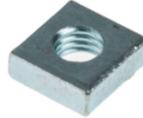
M5 washer **x14**



M5 Nylock **x3**



M5 x 30mm **x2**



M5 square nut **x2**



M5 x 16mm **x2**



Cable tie **x20**



Blanking plug **x12**



Lid corner block **x2**



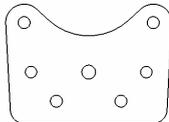
Joining strap **x2**

Automatic lid lifter fixings

(Solar, 3-season and 4-season models only)



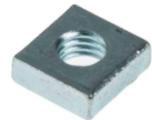
Lid top plate **x1**



Mounting plate **x1**



M5 x 8mm **x4**



M5 square nut **x2**



M5 nut **x2**



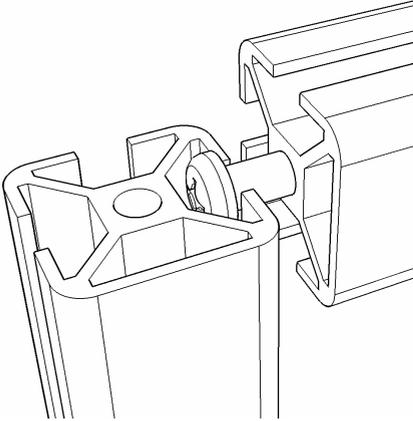
M4 x 16mm **x2**



M4 nut **x2**

Introduction - Slotting parts together

The greenhouse is based on parts that slot together using stainless steel screws, as shown in the diagram below.



Ensure that your screwdriver is fully engaged with the screw head when you tighten, so that you don't round off the head of the screw.

Note the orientation of each piece in the description; specifically the closed face.

WARNING Every care has been taken during manufacture to avoid sharp edges or burrs, however you should still take care when handling metal parts.

Step 1 - Seal the polycarbonate panels (optional)

Twin wall polycarbonate panels act like double glazing for your mini greenhouse, and to improve the insulation characteristics, it is good to seal the ends of the channels using the provided foil tape. It also helps prevent bugs from crawling into the plastic.

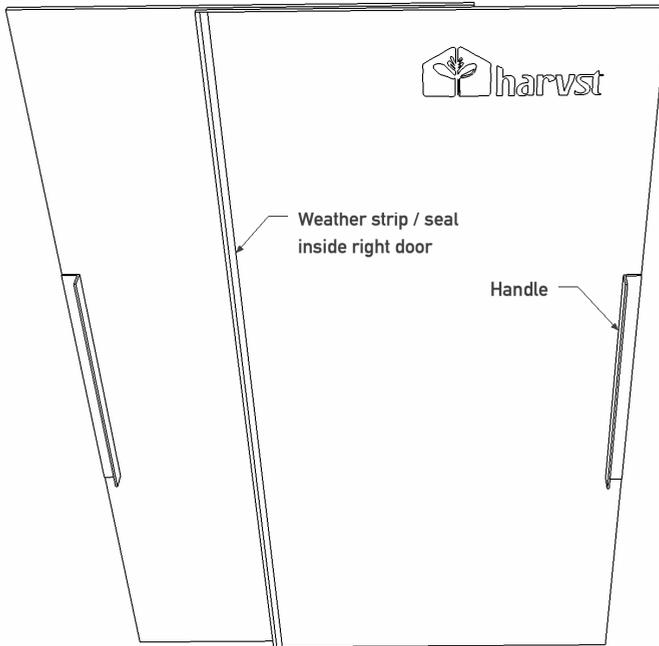
This step is optional - it can take some time but is recommended.

1. Peel back a couple of inches of the protective foil which covers both sides of the panels, but don't take it all the way off yet.
2. Apply the tape to the end of the panel, covering the flutes.
3. Fold down the sides to seal the tape to the panels.

The white film is on the UV protected side which should face out when you place the panels into the greenhouse.

Step 2 - Attach the door handles

Do this step first to allow the adhesive tape to cure while you assemble the rest of the greenhouse. You'll fit the doors at the end.



Parts
4 x door handle
4 x polycarbonate door

Fix the door handles to the doors as shown in the drawing above, using the tape fixed to the handles.

Make sure you have peeled the protective film off the doors first, the surfaces are clean, dry and free from grease, and that the UV treated side of the door panels (white film) faces out.

There is a sticker on the **upper** pair of doors.

Step 3 - Fit weather seal

Parts
2 x self adhesive weather strip

Fix the weather strips to the **inside** of the right hand doors, as shown on the drawing above.

Step 4 - Assemble the base

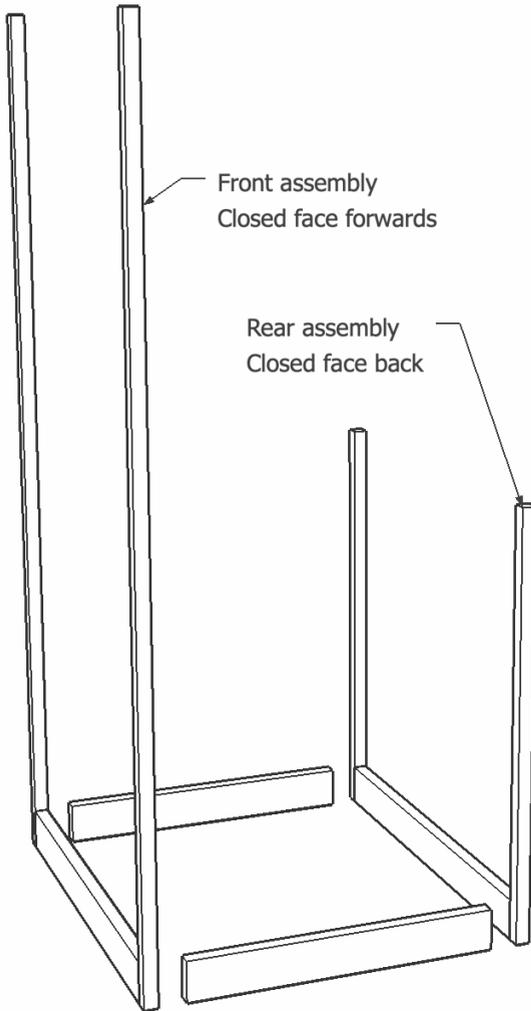
Parts:

1 x front assembly

1 x rear assembly

2 x side base 45cm

This step is best done on a flat surface where you can easily access the screws at the bottom, such as a table or workbench.

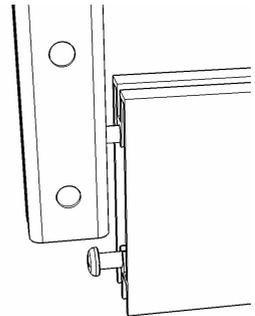


Link the front and rear assemblies using the 45 cm side base parts.

The closed faces on the assembly uprights face **outside** the greenhouse.

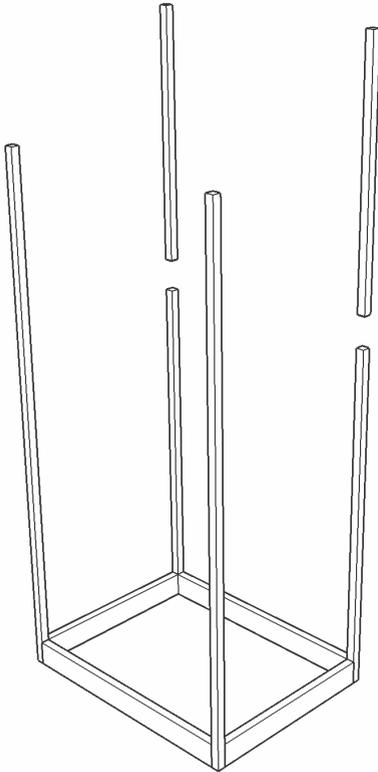
The side base parts have the single channel facing **up**, and the double channel facing **down**.

Slot the assemblies over the screws on the side base parts and tighten.



Step 5 - extend the rear uprights

Move the frame down onto the floor at this point.



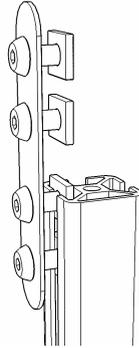
Parts

2 x joining strap

8 x M5 x 8 button head

8 x M5 square nut

2 x top rear upright 58cm



Insert the bolts into the joining straps, and put a square nut on the back of each, loosely.

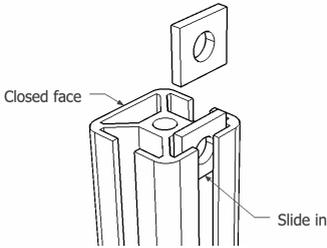
Slide the square nuts into the **outside** channel of the rear uprights, and tighten the lower pair of bolts.

It can be a little fiddly to get the square nuts to slide into the channels. A small pair of pliers can help keep them aligned.

Slide the top rear uprights down over the square nuts, and tighten the bolts.
The closed face of the bars faces the rear (outside) of the greenhouse.

Step 6 - Insert square nuts into cross bars

These are for you to attach pipe clips for irrigation (which you may add in the future even if you don't have them now).



Parts
4 x side cross bar 45cm
4 x square nut

Insert a square nut into the inside channel of each crossbar that will go on the **left** side of the greenhouse. The inside channel is the one opposite the closed face.

Step 7 - Side panels and side crossbars

The **second side panel on the left** has a hole with grommets in it for an external hose or tank connection, if you have a solar, 3 season or 4-season model.



Parts:
8 x clear side panel
4 x side cross bar 45cm
4 x side cross bar with nuts 45cm

Peel the protective plastic off two side panels. Slot the two panels into the frame, one on each side.

The side with the white film should face outside; it is the UV treated side.

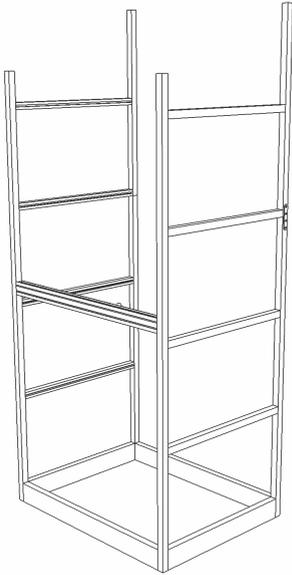
Slide the bars, **closed face outwards**, down over the clear side panels. Tighten the screws.

The bars with the nuts go on the **left** side.

Repeat for the other side.

Finish inserting all the side panels and cross bars in the same way.

Step 8 - Front crossbar



Parts:

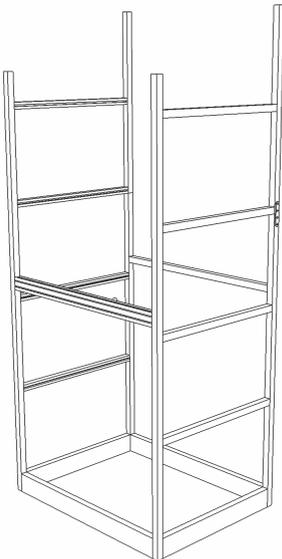
1 x Front cross bar

(60cm with a black channel top and bottom)

Slide the crossbar into the front of the greenhouse and tighten when the screws line up with the holes in the uprights.

Closed face forwards.

Step 9 - Lower rear panel and rear crossbar



Parts:

1 x Lower rear panel (the smaller one)

1 x Rear cross bar (60cm with screws in)

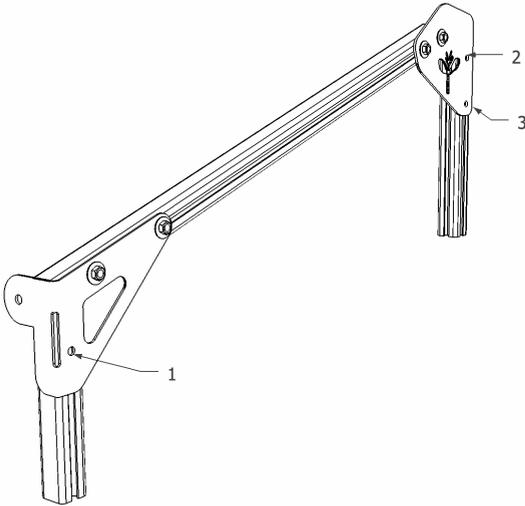
Slide the rear panel into the slots on the rear of the greenhouse, all the way into the channel in the bottom base part.

It's a snug fit into the base (anti-slug!); knock it down gently with a soft hammer or block of wood.

Slide the bar into the rear of the greenhouse.
Closed face backwards.

Tighten the screws from the sides.

Step 10 - Side panel top assemblies



Parts:

1 x Right side panel top assembly

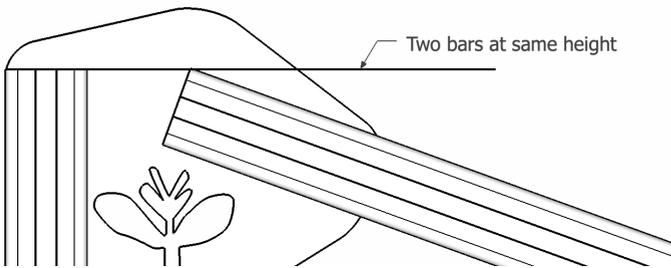
3 x M5 * 8mm button head bolt

3 x M5 square nut

Insert the bolts into the assembly, and add the square nuts on the inside, loosely.

Slide the assembly down over the side panel, inserting the square nuts into the outer channels on the uprights.

The front end goes down as far as it will go, and the rear end is flush with the top of the rear upright (see drawing below). Tighten the bolts.



Repeat for the left hand side.

Step 11 - Fix lid lifter bracket to adapter plate

OPTIONAL - if you have an automatic lid opener

The *lid lifter bracket* is in the lid opener box. (see drawing below for named parts)

Parts:

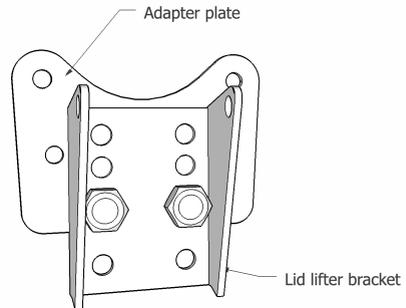
1 x lid lifter bracket

1 x adapter plate

2 x M5 x 8mm button head

2 x M5 nut

Bolt the lifter bracket to the adapter plate as shown, with the nuts on the inside of the bracket.



Step 12a - Fix bracket to front bar : slot method

Parts:

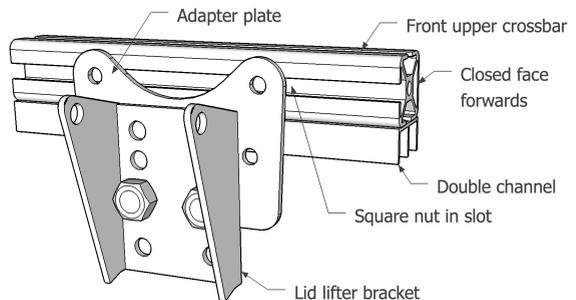
1 x front upper bar 60cm

1 x bracket assembly from above

2 x M5 x 8mm button head

2 x M5 square nut

Slide two square nuts into the **rear** channel of the bar (the side opposite the closed face). Bolt the bracket assembly to the front bar, in the exact centre of the bar.



Step 12b - Through-hole method

If your greenhouse has a front crossbar with no slot, it will have holes drilled in the relevant place.

Parts:

1 x front upper bar 60cm

1 x bracket assembly from step 9

2 x M5 x 30mm button head

2 x M5 nut

Bolt the bracket to the front bar, through the two holes.

Step 13 - Front upper cross bar

Parts

2 x M5 x 30 bolt

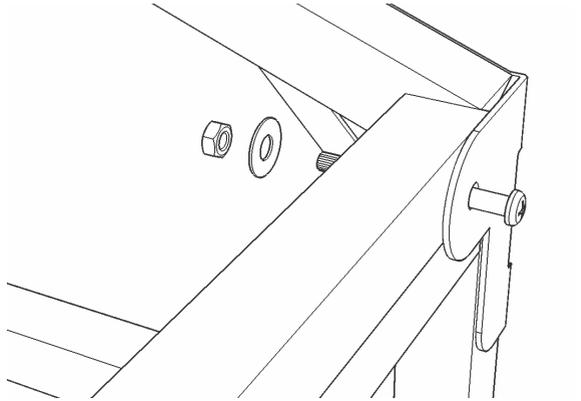
2 x M5 nut

2 x M5 washer

1 x front bar you have assembled

Bolt the front upper bar to the **rear** of the brackets on the front of the greenhouse.

Tighten securely.



Step 14 - Fit the shelves

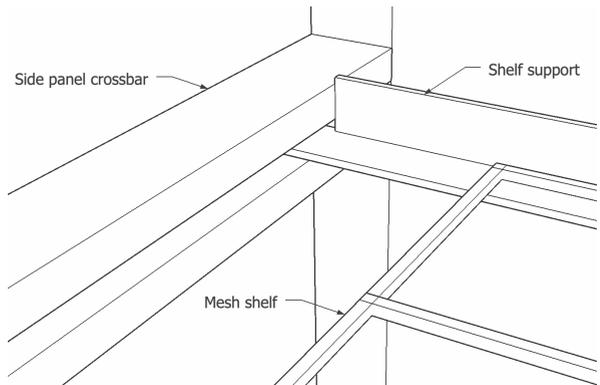
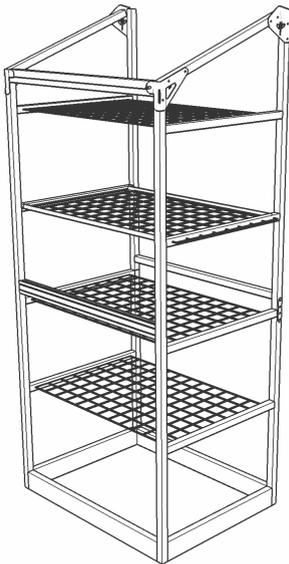
Parts:

Mesh shelves

2 x shelf support per shelf

4 x cable tie per shelf

Slide the square nuts for the 13mm water pipe to the middle of the crossbars on the left hand side of the frame, before you insert the shelf supports.



Slot the shelf supports into the slots on the inside of the side panel cross bars, inserting them at a diagonal and then straightening up.

Place the mesh shelves onto the shelf supports and secure with cable ties, one in each corner.

The narrower shelf goes in the top slots to allow the lid lifter piston to swing clearly. We recommend putting the front shelf support in upside down to make tray removal easier.

WARNING - the edges of the shelves may be sharp. Take care.

Step 16 - Fit the grow lights - optional

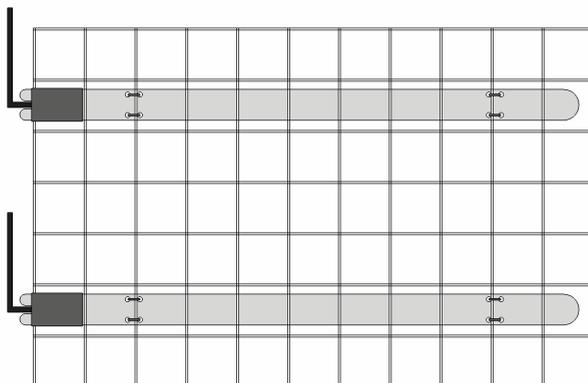
The 4-Season greenhouses can be fitted with grow lights.

Per shelf:

2 x light bar

8 x cable tie

With the cables on the left, fix the lights to the underside of the mesh shelves using cable ties through the small holes.



Extra light pairs

Extra splitters

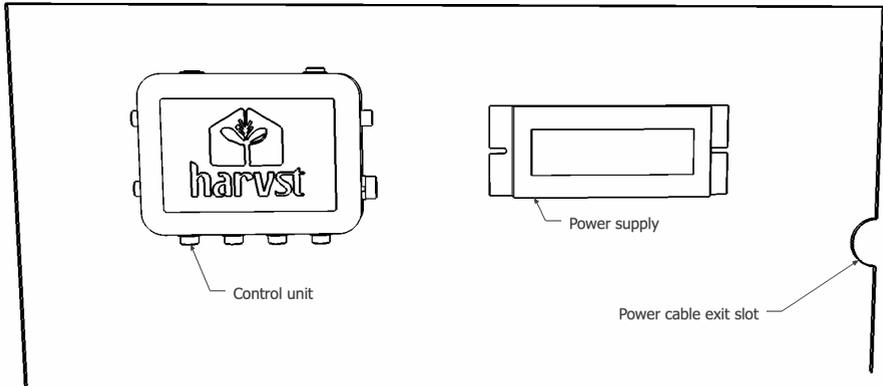
For each pair of lights, connect a 3-way splitter to the lights, leaving a spare socket to connect to the shelf below.

Connect the lights to the control unit later.

Read more about lighting in the control system handbook.
Stalk lights are also available in addition to strip lights.

Step 17 - Fix controls to rear panels

If you have a greenhouse with a control system, mount the control unit (and power supply) to the upper rear panel, and then slide it up so you can feed the power cable through the side slot before dropping the panel back in.



Parts

2 x M5 x 16mm bolt
2 x M5 washer
2 x M5 nut

Fit the control unit to the rear panel using the 2 holes at the top left of the panel. Flip the mounting hole covers up on the control unit to expose the mounting holes. It's easiest to hold the bolts on the allen key as you push them through the control unit.

Parts

2 x M4 x 16mm bolt
2 x M4 washer
2 x M4 nut

Optional : power supply (mains version) : Fit the power supply to the rear panel using the two holes to the right of the control unit. The long mains cable goes on the right. Feed the power cable out through the slot in the rear panel.

Step 18 - Fit the heater cable(s) - optional

Plug one heater cable to the control unit in the top socket on the left. If you have a second, plug it into the middle socket on the left.

Weave the cable in and out of the shelf mesh, to provide a heated platform on which you place your growing containers. The cable will reach a maximum of 65 degrees C which will not damage any of the greenhouse frame or plastic.

A maximum of two cables can be powered by the control unit.

Read more about heating options in the control system handbook.
You can also fit heated seed trays, or more grow lights instead of heaters.

Step 19 - Add the lid prop bolts

Parts

1 x lid prop 42cm
2 x M5 x 16mm bolt
2 x M5 nut
1 x M5 nyloc nut

Screw the two standard nuts onto the bolts until they are 2mm away from being fully tightened.

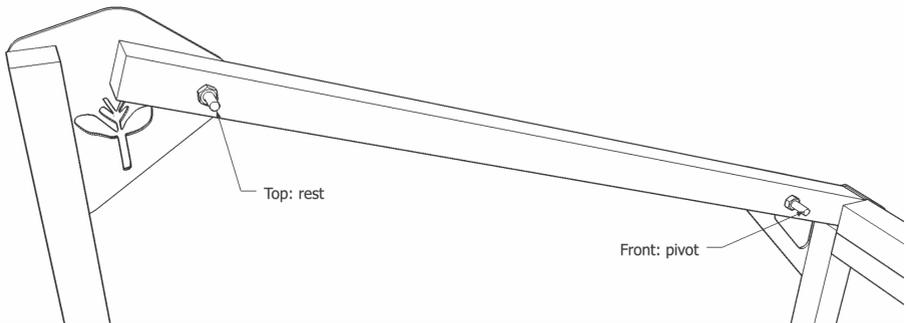
Slide the heads of the bolts down the inner slot on the top right end panel bar, as shown in the drawing below..

Slide one all the way to near the bottom and leave one near the top.

Holding the bolt thread, tighten the nut to create a stud. The lower / front stud goes through the lid prop with a nyloc nut on it.

The top / rear stud is used to rest the lid prop when not in use.

The nyloc nut has a little plastic ring inside to prevent it loosening over time.



Step 20 - Fit the lid prop

Parts

1 x lid prop, 42cm
1 x M5 nylock nut

Put the hole in the lid prop over the lower stud that you inserted above.

Put on the nylock nut, tightening it just so that the plastic “bites” the thread. The prop should be loose enough to move around.

Note: The nylock nut has a little plastic ring inside to prevent it loosening over time.

Step 21 - Lid side bars

This is easiest done on a flat table or worktop.

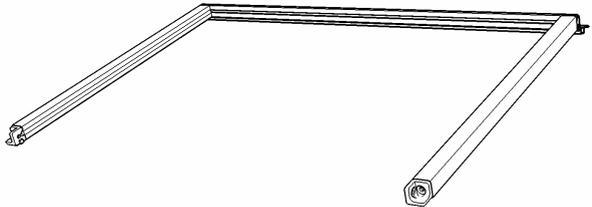
Parts

1 x hinged ridge assembly

2 x lid sidebar 44cm

With plastic corner pieces

Place the ridge piece with the black plastic channel facing down.



Slide the lid side bars into the ends of the front of the ridge piece (the 20mm square section), with the closed side upwards.

Note: The stubs on the plastic corner pieces face inwards, towards each other.

Tighten the screws.

Step 22 - Insert the lid polycarbonate

Parts

1 x clear lid panel

Slot in the lid polycarbonate sheet, with the holes at the front. Make sure the white UV protected side is upwards. You'll need to flex the lid side bars apart slightly.

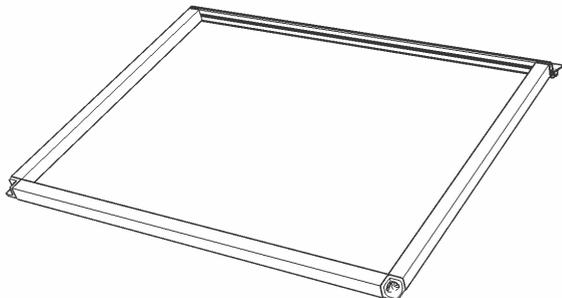
Step 23 - Complete the lid

Parts

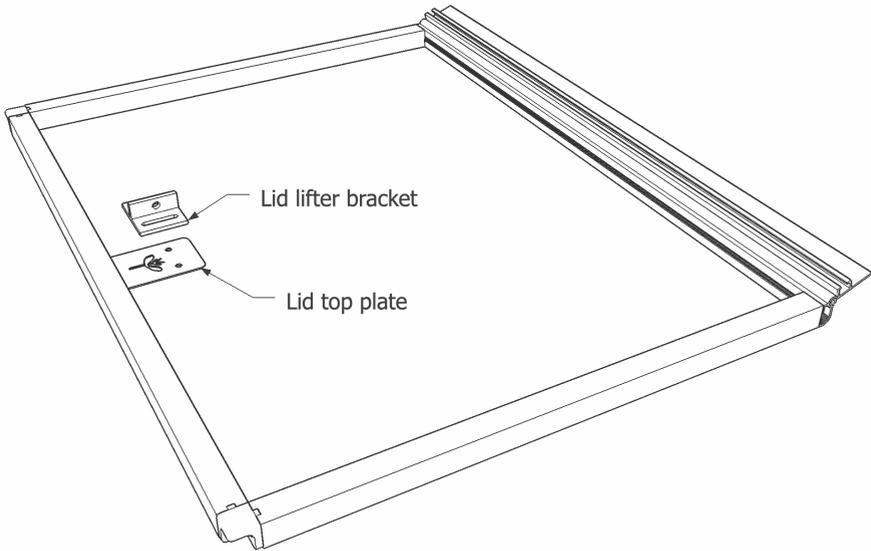
1 x lid front bar

2 x 30mm screw

Screw the front of the lid onto the rest of the lid assembly, with the closed face up.



Step 24 - Fit the lid lifter to the lid



Place the lid upside down on a table (with the black channel facing up), with the holes over the edge.

Parts:

2 x M4 x 16mm bolt

2 x M4 nut

1 x lid top plate

1 x lid lifter

Place the lid lifter so that the bracket with slots in is above the two holes in the front of the lid. The slotted bracket is shown in the diagram above without the lid lifter, for clarity.

Bolt the lid lifter to the bottom of the lid, using the top plate on the other side (underneath the upturned lid).

Step 25 - Fit the lid lifter piston

WARNING - the lid lifter has powerful springs and should be treated with care.

Parts

1 x lid lifter piston

Prop the greenhouse lid open. Insert the black piston into the lid lifter, using the instructions as supplied with the lid lifter.

Taking care not to trap your fingers, squeeze the sides of the lid lifter together and insert the studs into the bracket on the inside of the front upper bar.

Step 26 - Fit the lid to the greenhouse

Parts
2 x 30mm screw
1 x Lid

Place the lid on top of the greenhouse, making sure that the rear panel slots into the black channel on the underside of the lid.

Secure it with two 30mm screws into the rear uprights.

Step 27 - Fit the doors

Parts
2 x polycarbonate door
With handles fitted

Pop the doors into the sliding channels by flexing them slightly. The left hand door goes in the rear (inside) channel and the right hand door goes in the front (outside) channel.

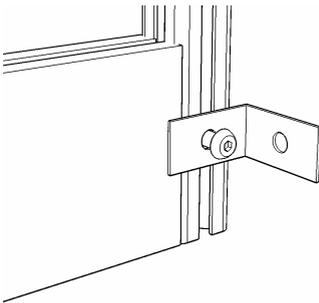
Refer to the door drawing at the beginning of the guide.

Step 28 - Fit the hole caps

We've supplied some small black plastic caps to cover the screw holes in the front of the greenhouse to make it look smarter. Fit the caps.

Now stand back, have a cup of tea and enjoy your new greenhouse!

Secure the greenhouse



We recommend that you secure the greenhouse to the ground, a wall or a fence.

Parts
2 x square nut
2 x M5 x 8mm bolt
2 x securing bracket

Use square nuts in the rear upright side slots, with an M5 bolt and a bracket of your choice to suit what you're mounting to.

Regular maintenance

The materials and design of your greenhouse means that it does not need much maintenance.

- The automatic lid lifter will need oiling from time to time to prevent corrosion.
- Clean the inside of the panels from time to time, especially if you have hard water.

To extend the life of your automatic lid lifter, avoid opening the lid against the pressure of the piston too frequently. Open the front doors, unclip the lifter mechanism, and then open the lid. The lid opener piston is not covered under our manufacturer's guarantee.

Further reading

We have more information on our website at www.harvst.co.uk about:

- The smart control system and web app
- Using the self watering
- Using grow lights and heating
- What to grow in your greenhouse



Visit www.harvst.co.uk/setup for more information, videos and photos