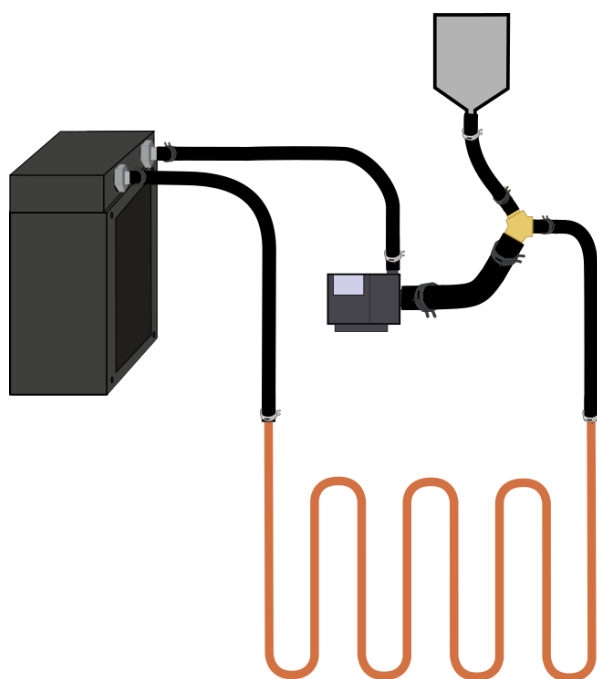


BOBIL VANS UNDERFLOOR HEATING KIT UPGRADE

INSTALLATION INSTRUCTIONS





Important Safety Instructions! Please save these instructions!

This manual contains important safety, installation, and operating instructions for the Bobil Underfloor Heating Kit.

The manufacturer accepts no liability for damage by:

- Incorrect assembly.
- Damage resulting from mechanical influences or excess voltage.
- Modification or tampering with the unit without expressed permission from the manufacturer.
- Used for purposes other than described in this manual.

General safety

- Firmly secure all cables and hoses.
- In the event of product failure, do not attempt to repair the water heater. Inadequate repairs may cause serious injury.
- Electrical devices are not toys - keep away from children.
- Disconnect the product from the battery and mains power each time before cleaning or maintaining the heater.
- This product is for 12V battery only. Make sure your voltage specification is within the input voltage range expressed.
- Install and store the product in a dry and cool place.
- Keep electronics away from liquids!
- Do not use the product if physically damaged or with visibly perished hoses.

Installation

- Ensure secure location where it cannot tip or fall.
- If necessary, verify installation with a qualified electrician or installer.
- Lay cables so they cannot be damaged or be a tripping hazard.
- Do not operate in salty, wet, or damp environments; in the vicinity of corrosive fumes; in the vicinity of combustible material; in areas with risks of explosions.
- Ensure proper cable sizing for currents generated.
- Over-current protection devices should be on the positive line.

Thank you for buying our products!

Small businesses like ours only exist because of the support of our customers. We appreciate you purchasing from us, and hope that you have a great experience.

If you have any installation questions or queries then just get in touch, we're here to help. Contact us at info@bobilvans.co.uk or on the phone at +44 1275 261074



What comes in the box?

1. Single Heat Exchanger	6. 10mm ID hose (0.3m)
2. Screws & Fittings	7. 8mm ID hose (1m)
3. Ducting Adaptors + Gaskets (x2)	8. Spring clips (2 sizes) + Wire Clips
4. STC 3008 Controller	9. Header Tank
5. Circulation Pump	

Not Included

- 8mm pipe

Along with the above kit, to install the Bobil Air Hybrid Kit you will need the following tools:

- Pliers
- Knife/scissors
- Drill & 4mm drill bit

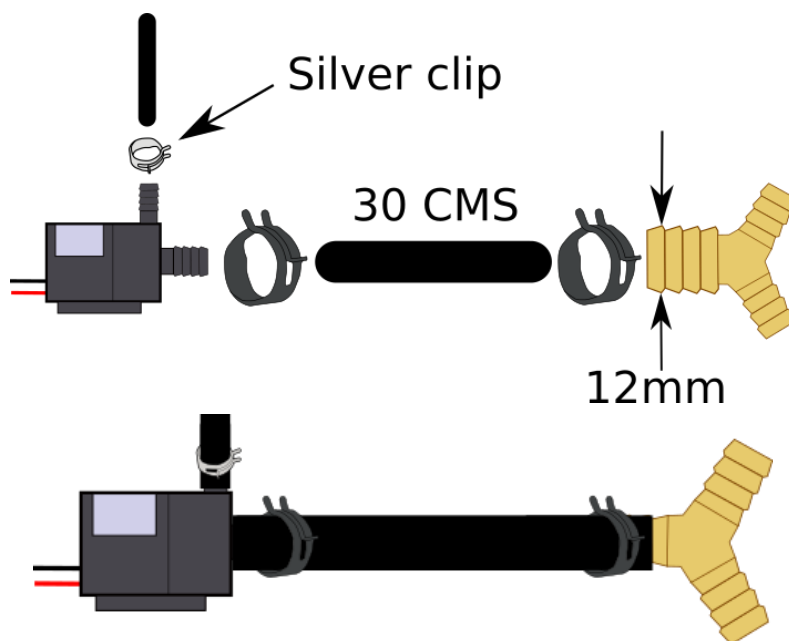
Scan this code with your phone camera to watch an installation video of the Underfloor Heating Kit.



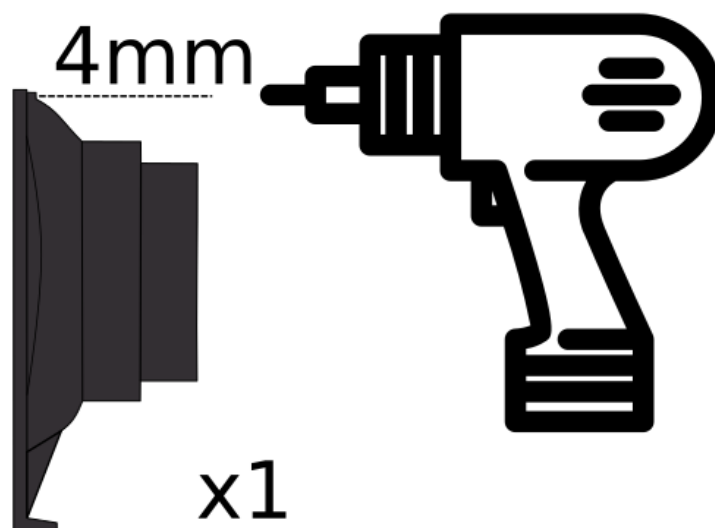
Installation

Firstly, you will need to create a path for the pipe. Route channels in the floor of your van to put the pipe into. You can use copper or plastic pipe, and if you put a substrate over the top then you should keep it as thin as possible to allow the heat through. Cut the pipe off at a convenient location.

1. Assemble the pump onto the large and small pipes as shown.



2. Drill a 4mm hole in one adaptor through the guide hole.

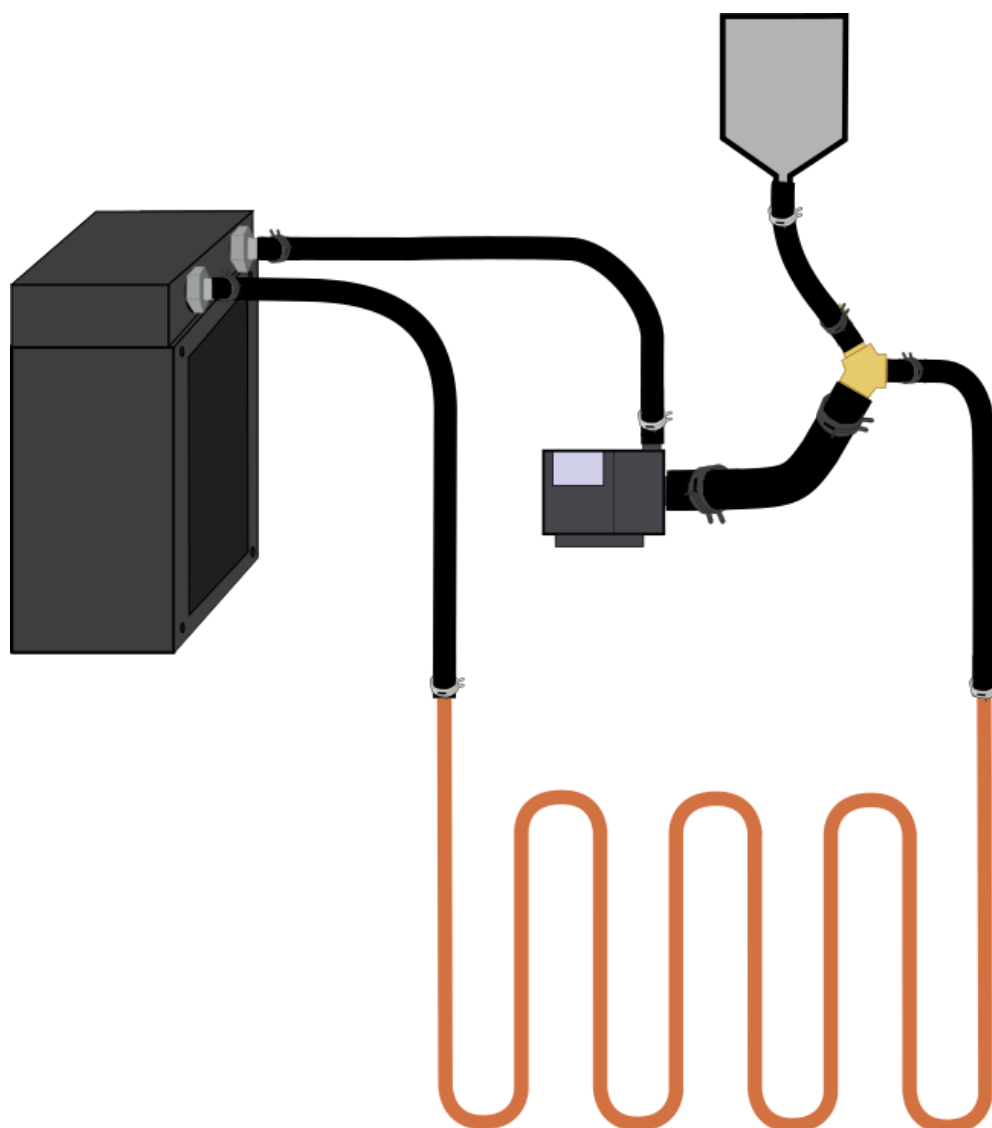




3. Mount the two jubilee clips on the wall of the vehicle by putting a screw through the hole in the clip. Attach the expansion tank by inserting it through the clips and tightening the clips to clamp the tank in place. Route the top of the Y piece up to the expansion tank. Pipe up the system as shown on the next page using the clips.

Note the black clips for connections onto the heat exchanger and the Y fitting, and the silver clips for the pump outlet, expansion tank inlet and connections to the copper pipe. However, extra black clips are provided for fitting to a 10mm pipe if needed.

The pump should always pump fluid into the exchanger then round the pipes. **Do not draw water into the pump directly from the exchanger** as this will shorten the pump life.



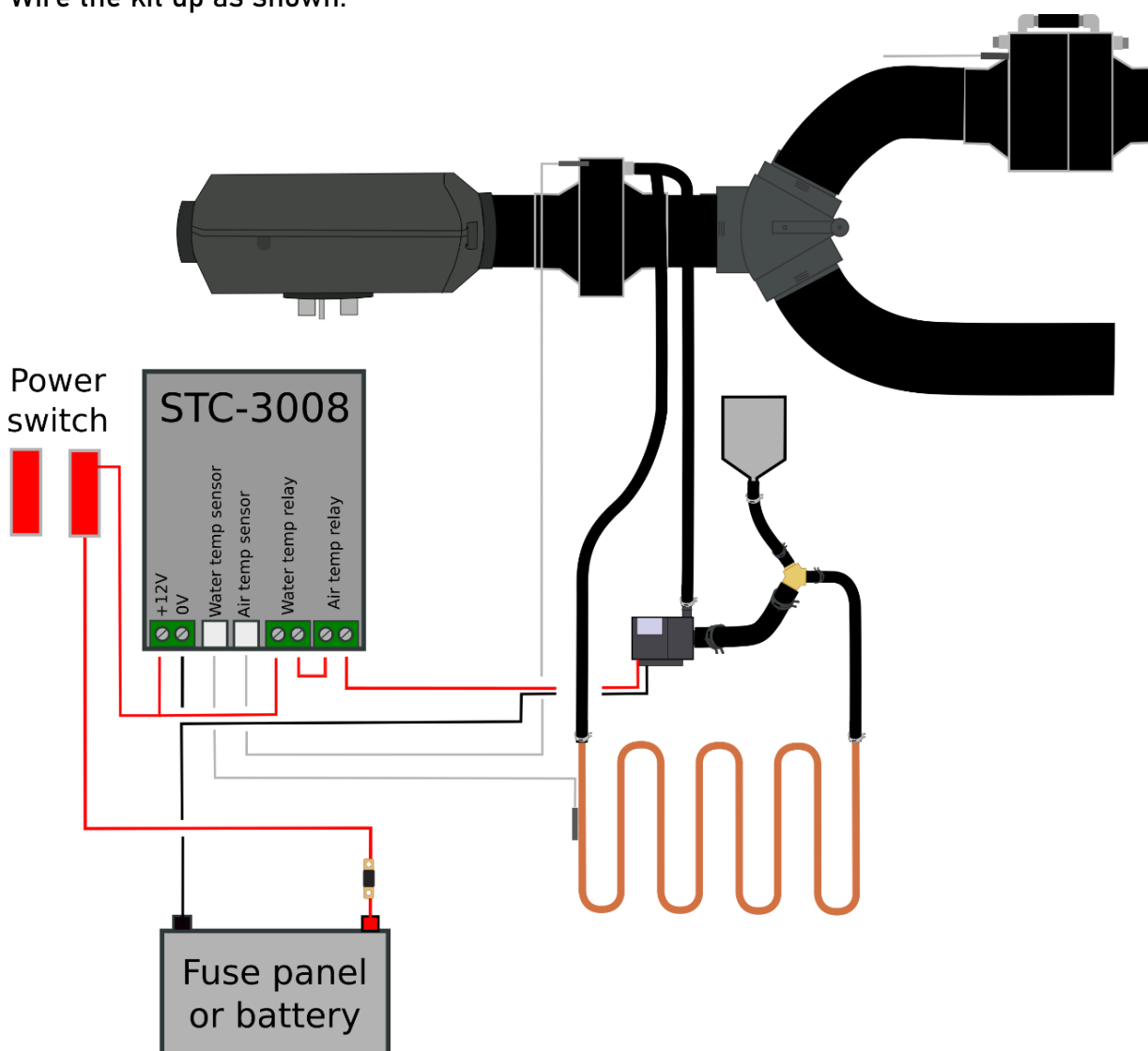


Fill the header tank with glycol and water in the appropriate mixture, following the instructions on the bottle. There is no need to fill the header tank fully, there just needs to be enough fluid to fill the pipes and allow the fluid to be pumped round.

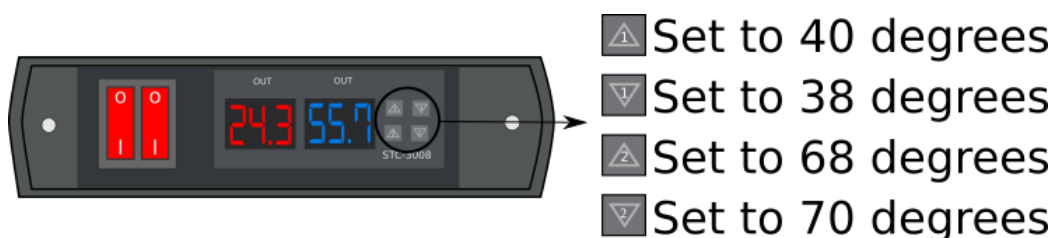
To control the underfloor heating, the water temperature sensor must be attached to the copper pipe at the outlet from the floor. Heat resistant tape, thermally conductive adhesive or any kind of mechanical fixing will be fine. The air temperature sensor (which senses when the heater has come on) should be inserted into the hole drilled in the adaptor.

Electrical Wiring

Wire the kit up as shown.



Set the temperature accordingly. Most domestic underfloor heating systems will run at 70 degrees. To set the air temperature turn on point to 40 degrees and the water temperature to 70 degrees, set the controller to the following values. Hold down the relevant arrow and when it starts flashing, adjust using the up and down keys.



Ensure your flooring is suitable for underfloor heating. If you are fitting underfloor heating on a bonded floor, you should use a high temperature adhesive and consider reduce the water temperature slightly.

Switch the heater on check the pump comes on at the right time. Top up the glycol mixture after the air is expelled from the system by the pump, and again after a short drive.



We would love to know what you think!

Please let us know by leaving a review through the link sent through when you made your purchase, or email us at [info@bobilvans.co.uk!](mailto:info@bobilvans.co.uk)

You can also share photos of your installation on the 'Bobil Water Heater Users', Facebook page, we'd love to see them!

www.bobilvans.co.uk

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