



Bell Tent UK

How to fit your Bell Tent UK Stove

Hello

Thanks for buying one of our handmade, in the UK, Bell Tent Stoves. After lots of testing and tweaking we've taken a standard wood burning stove and redesigned it to work well with our Bell Tents or any other canvas tents or structures with a vertical side walls.

Special Features

- We have moved the flue so it now comes out of the back of the stove rather than the top. This means you get more cooking space and that the hole for your chimney / flue comes out of the wall not the roof. Our Bell Tents have an overhanging roof so you avoid all the sealing and waterproofing issues you would have by putting your flue through the roof.
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- We have now added an extra heat shield which is a larger ventilated pipe that goes over the horizontal flue where it goes through the canvas. This added safety feature makes your stove kit much safer to use
- We've designed the flashing (the rubber bit where the flue actually goes through the wall) so that it can easily be taken on and off using wing nuts. This means you can take it off and still pack your tent easily back into its bag which would be hard with a solid bit of rubber and metal permanently stuck to the roof!
- It also means that the hole left behind doesn't easily let the water in like it does if in the roof and can be easily covered over using a bit of material already supplied with the tent.
- Our Bell Tent Bags have a flap of matching material in the mouth of the bag which is perfect to cover over the hole if you want to use the tent without the stove. Just cut this piece of material out of the bag and then you can either safety pin it over the hole when not in use or do a proper job by sewing Velcro onto the flap and the tent so you can take it on and off in seconds. (Make sure that the flap either comes completely off or if you going to permanently sew an edge on make sure it's the bottom edge so the flap falls clear of the hot flue.)

If you have any questions feel free to call us on 07830 355994
or email info@belltent.co.uk

How to Fit the Stove to a Bell Tent.

We do not supply Bell Tents with the flue hole already in them as who are we to know where you want to position your stove?

So firstly you have to decide where you want to position the stove in the Bell Tent. There are a few factors to think about:

- Do you have a Bell Tent that can take one of our inner tents and if so do you ever plan on using an inner tent? If you do then you don't want to position the stove so it overlaps with the inner tent. Therefore there are only two good spots to choose from and those are the two panels either side of the door.



- If you have no intension of using an inner tent then you can put the stove wherever you like. As a recommendation we would advise you to stay away from the panels that have the windows as the mosquito net doesn't have the strength to support the flashing. We personally have found that the best spots are either next to the door or two panels on (at 90 degrees) to the left or right when you enter the tent. The reason we have come to this conclusion is that most people want to put their bed as far away from the door as possible to stop drafts and dirt getting to it. If that part of the tent is the bed area you want to keep the stove clear of it.
- Avoid positioning your stove along any seams as cutting through them will weaken the whole structure.
- A good way of deciding is to assemble the stove and put it in different positions to see what works best for you and see how it looks.

Assembling the Stove.

Your Bell Tent UK Stove has been designed to pack down small for transport and should only take a couple of minutes to put together. If you are doing this for the first time the easiest way is to lay out all the pieces on the ground.

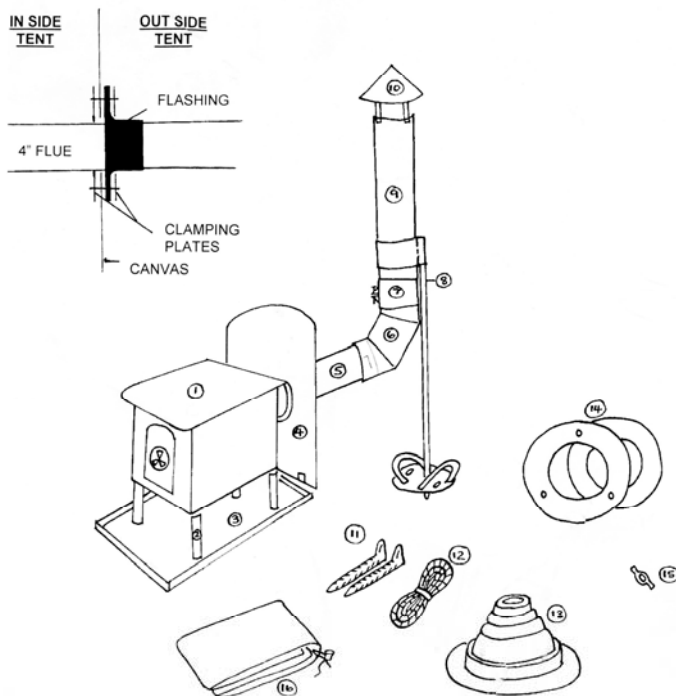
The initial installation will take around ½ an hour but once done fitting your stove will take around 5 minutes.

Kit list

Get everything out of the box and lay it out on the ground



(The image above shows the optional water tank next to the stove)



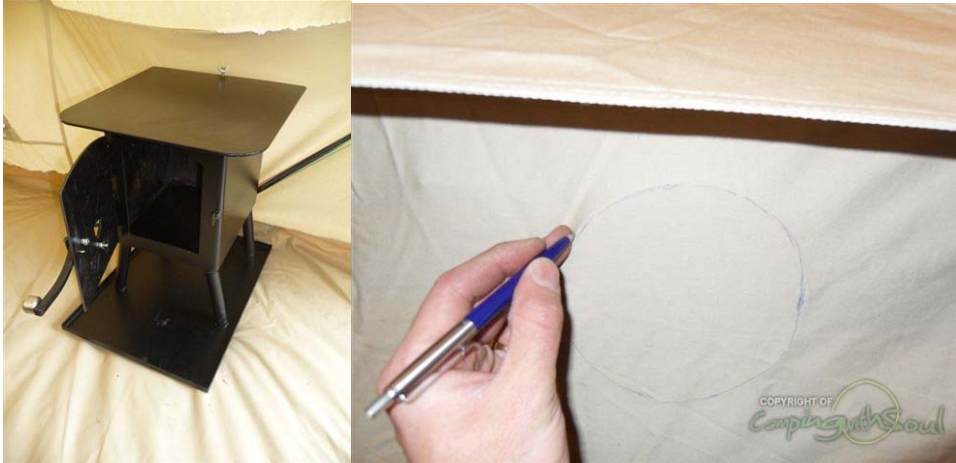
STOVE CONTENTS LIST

1. Stove
2. Detachable Legs x4
3. Tray
4. Heat Guard
5. 0.5m Flue Section
6. Elbow Flue Section
7. Coupling Band x2
8. Flue Support
9. 1m Flue section
10. Cowl
11. Pegs x 4
12. Cord
13. Flashing
14. Clamping Plates x2
15. Wing Nuts x6
16. Flue Kit Bag

DISCLAIMER .
All precautions should be taken ,
We can not be held responsible for
any accidents.

Turn the stove upside down and screw on the 4 legs

Flip the stove over and take the stove into the tent and place it on the floor tray. Having decided where you want your stove put it in position and push the stove back against the wall so that the flue hole on the back is touching the canvas. Stay away from seams and make sure the tent keeps its shape so you put the hole at the right height.



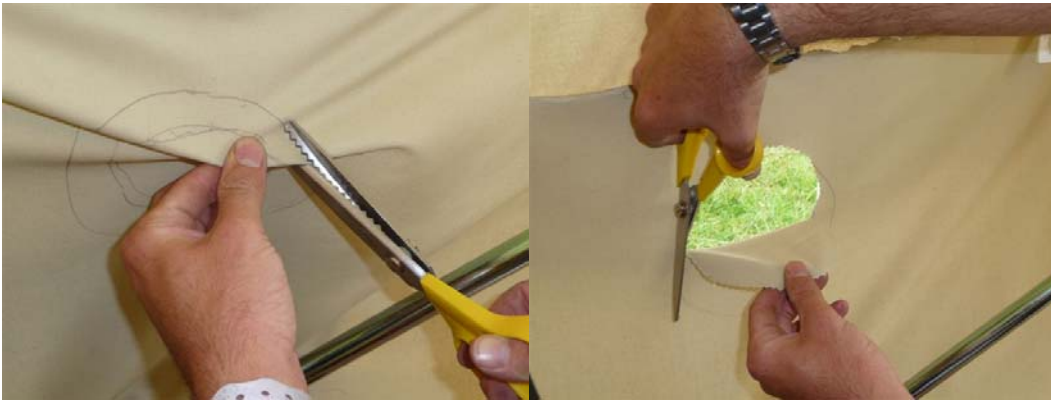
Go outside and feel for the flue through the canvas. Once you've got it get a pen and draw around the flue hole so you know where to cut. If you look at the picture above you can use your finger to feel round edge of the flue and guide the pen. You'll also notice the distance between the top of the flue overhanging roof. Make sure it's not closer than 5cm.



Now get the metal disk with the holes in it and line that up with the flue and circle you've already drawn. This is made easier by having the flue to push against. Now draw a bigger circle round the inside of the disk and then mark where each of the holes are.

Now it's time for commitment as you are about to cut a hole in your tent!
The best scissors are pattern cutting scissors as the zig zag stops the material from fraying but a good pair of normal shape scissors will also do the job

Move the stove out of the way and you want to cut around the bigger circle about one centimetre bigger than the circle. This is to make the hole big enough to stop any of the canvas coming in contact with hot flue pipe but not so big that it's too close to the bolt holes.



Now it's time to make the 4 holes for the screws on the plate to go through. You can either use the end of the scissors, a knife, spike or sharp object and a twisting movement works best. (Careful of fingers and of making the holes too big)



You made it, all the canvas cutting is done!

Now it's time to cut the rubber flashing to size.
Get the thicker heat shield pipe and put the rubber flashing on top



Feel for the size of the pipe through the rubber and see which band you are going to cut.

Now cut the ring smaller than the one you think is the right one (you can always cut more off but you can't put it back on and you want a good tight seal)



That the end of the one-off first fitting of your bell tent stove. From now on it's what you do every time you use your stove. See the notes at the end of these instructions if you want to cover the hole so you can use your tent without your stove.

Putting your stove together and fitting the flashing.

Fitting Horizontal flue pipe to stove



Slide the shorter flue into back of stove up to the ridge and then slide the back plate up to the other side of the ridge.



Get the bolts with the wing nuts on the end and screw them through back plate into the holes on the back of the stove. (you'll notice this bonds the flue to the stove so there is no way it can come off or leak.)

Now slide the thicker heat shield pipe onto the horizontal flue and take the unit into the tent ready to push it through the flashing.

Fitting Flashing

On the outside of the tent get the metal disk with the bolts coming out of it and push the bolts through the holes you made for them until the disk is against the side of the tent. Go inside, put the rubber flashing up through the hole and match up the metal disk with the holes to the bolts. Push bolts through and screw on wing nuts.



Bingo, your flue hole is sorted.

Now line the stove and horizontal flue up with thicke heat shield pipe fitted up to the hole in the flashing and push it through. We find it's easier to start from the inside and then go outside so you can push against the stove. You want to keep the stove as far away from the tent as you can while still allowing enough space between the vertical flue and the over hang of the roof of the tent. (min 10cm)

Now it's time to attach the rest of the flue pipe.

Slide one of the coupling bands onto the horizontal flue, attach the 90 degree flue bend and then position the coupling band over the join. Close like a ski boot binding.



Slide the other coupling band onto the long shiny flue pipe, attach that to other end of the 90 degree flue bend and repeat the process



Now it's time to fit the bracket to the vertical flue. It's a good idea to see how it all fits together (left below) so you put the bracket the right way up on the flue. Fully undo the wing nuts and open the black clamp right up so you can get it onto the flue. (You only have to do this once and can leave it there)



Once the whole flue is together line up the pole and the spike and push it into the ground so it's against the outside edge of the vertical flue. How slide the pole into the black clamp and adjust it tight so it's pulling the whole flue up slightly. Now tighten.

NB. HOT AIR RISES!!

Always make sure your horizontal flue is horizontal or preferable coming slightly up from the stove. It's important that it doesn't droop down from the back of the stove as this may cause the stove to draw badly and you might end up with smoke coming back into the tent.

You then end up with the outside looking like this



Lastly pop on the flue cap, attach the two guy ropes to the chains coming off the cap, tie loops in the other end and peg out using pegs provided.

Well done, that's it you've installed your stove and flue kit.

NB. Disclaimer.

We have to put this as you are literally playing with fire.

Bell Tent UK takes no responsibility for the misuse of this product or for any damage caused by using it. Bell tents from us are not pre fire proofed so if you feel that is necessary make sure you do it yourself. This stove is a sealed unit so with some common sense you can protect yourselves. We recommend that you always put a mat or piece of carpet under your stove as sparks will go straight through the ground sheet.

Always have a means of putting out a fire within reach and always make sure the fire is put to bed before you are.

Our Bell Tent UK Stove is tested and rated to 2.5kw.
This is a good temperature to warm up a tent without becoming a furnace.

Do not use artificial means to make your stove burn hotter (like constantly blowing or fanning the flares to create a furnace). You risk damaging the stove kit and even your tent.

If you want to circulate the hot air around your tent consider our Eco heat powered fan which can be found on the website – www.belltent.co.uk

Putting your Stove away.

Very quick and easy, just follow the Assembly Instructions backwards but here a few tips:

- Make sure everything has cooled down enough and use water to cool if not.
- As you pull the horizontal flue back into the tent help it slide back through the rubber flashing by pushing the inside plate outwards rather than just trying to pull it through without any support.
- The easiest way to empty the ash is to remove the protection plates and legs and turn the whole stove upside down. (Be sure to empty in a safe place and make sure the ash and embers are truly out by pouring plenty of water over them. Be responsible and leave no trace!)

Some other questions you might have:

Q. Do I remove the flashing plates from the side of the tent?

A. This is up to you, you'll find the tent much easier to pack up and get into its bag without it attached. We always remove ours so we have all the stove gear together and there is always the chance you could rip or damage the rest of your tent if you leave it attached.

Q. What if I want to use my Bell Tent without the stove?

A. This is where our design comes into it's own. If you had a flue that went through the roof you would have to permanently bond the rubber flashing to the tent and would always have a hole in your roof (Not good if you don't want to take your stove on a trip) Because Bell Tent roofs overhang the walls this removes most of the waterproofing issues as the rain run off falls clear of the wall.

Our bell tents come in a matching bag which has a flap of material inside the opening that's just the right size to cover your flue hole. Just cut it out of the bag and attach it to the outside of the tent.

There are two ways you can do this.

The lazy way which is with some safety pins.

Or the best way which is to buy some Velcro and sew it onto the flap and the tent. This creates a much better seal against rain and drafts and also looks much better. You could also sew one side of the flap to the tent and Velcro the other three so the flap peels back but remains attached to the tent. (Stops it getting lost or dirty)

If you decide to do this the sew the bottom edge to the tent so the flap falls clear of the hole when open and stops the worry of the flap ending up on hot flue pipe.

Q. Cooking on the stove.

A. You can cook on the stove but be aware that you will discolour the roof of your tent. We've found that duck taping some tin foil onto the roof above the stove stops this and has the added bonus of reflecting more heat into the tent. Just pull it off and bin it after every camping trip.

As we said before please contact us with any questions and also if you have a good idea or a better way of doing something.

We hope you get loads of enjoyment out of your Bell Tent UK Stove and that it extends your camping season!