

INSTRUCTIONS

Beacon Assembly - A Safe Use Guide



To be read in conjunction with the 21CC Group 'GUIDANCE DOC' for the Platinum Gas Beacon.

These instructions have been put together to guide only the user and assist with a safe set up and safe operation of your Platinum Gas Beacon. It is the user's responsibility to ensure the safe operation of beacon. These notes are an outline of what may be required to safely set up the beacon and the gas elements, depending upon where you are setting up. It is non-exhaustive. Different site conditions may require slightly alternative methods to the notes below. These instructions are to be treated as a guide. They do not replace common sense.

Depending upon your level of experience, knowledge or confidence, we recommend the user carry out a test run of setting up the torch and lighting it prior to the event. This ensures the user is familiar with the equipment and reduces the risk of error and injury.

Tools you may need:

- Single size spanner (supplied) for fitting the gas assembly to the gas bottles
- Adjustable spanner for adjusting the bolts on the feet and checking / tightening the gas assembly
- Small gas lighter to ignite the lighter stick (supplied)
- Small hammer to knock the steel pins for the base into the ground
- Weights (sand bags or concrete blocks) for stability if not using the steel pins on soft ground
- Small bottle of water to douse the lighter stick once the torch has been lit

IMPORTANT NOTES:

The photo guideline instructions overleaf illustrate a generic 21CC Group beacon being set up on grass (soft landscape). The process of setting up on a roof top or on hard standing is similar.

- Be careful of the weight of the gas bottles. If in doubt, seek advice on lifting heavy objects and enlist the help of a second able-bodied person.
- There is no need to over-tighten the bolts on the cylinders. Firm is sufficient.
- Be aware of leaking gas. Do not test for leaking gas using a naked flame. Gas leak detector fluid is provided in the pack. If in doubt, washing up liquid on the joints will demonstrate leaking gas by bubbling.
- The pre-assembled gas assembly could become loose in transit. Ensure that all gas connections / joints are tight before use. If in doubt, tighten each joint on the gas assembly before use. It is the user's responsibility to ensure that the components are tight and fit for use prior to igniting the beacon.
- Do not turn the gas on for longer than necessary prior to igniting the torch.
- For outdoor use only.
- Ensure you have the correct gas cylinders.
- Do not use the gas cylinders as seats or put any undue weight or pressure on the gas assembly.
- Read the safety notes on the gas assembly and the notes supplied with the gas regulator.
- Be aware of building elevations, overhangs, trees and hazards. We suggest a minimum 3m safety distance, but you may need more depending wind strength and nature of adjacent hazard.
- When lighting the flame, enlist the help of a second person. Hold the lit lighting stick up to the gas burner before turning on the gas. Be aware of wind direction.

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- The flame may decrease in size during operation. This is due to the cylinders drawing in the warm air around them as the LPG turns from a liquid into a gas by endothermic reaction. This results in the gas bottles freezing on the outside. This is normal.
- Do not leave the beacon unattended. The beacon should be attended to by a minimum of 2 responsible and competent people at all times.
- Do not modify or remove any of the gas components.
- Do not operate gas products under the influence of alcohol or drugs.
- The beacon is designed for occasional use.
- After storage for any time, please check the internal steel pipe forming the main stem of the beacon for any corrosion.
- Store in a clean, dry area.
- As part of the on-going improvements, we reserve the right to alter specification and design.

Caution & Common Sense

Your torch will have been set up, connected and tested prior to packaging and delivery. If in the unlikely event that you find that there is a fault with any part of the beacon or the gas components, do not use them. Safety first.

Safety Data Sheets

Butane Safety Data Sheets can be downloaded from Calor Gas by clicking this link:

<https://bit.ly/3tVhGyF>

A e-copy is available upon request from 21CC Group Ltd.

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1. Unpack the box



2. Set up base. If on grass, secure base using steel pins. If on roof top or hard standing, use sandbags or concrete blocks for additional stability.
3. Use a small spanner to adjust the feet if sitting on hard standing, pavements, roof tops etc to enhance stability



4. Screw the bottom pole onto the base



5. Screw the top pole onto the bottom pole. Ensure all sections are fixed firmly.



6. Offer up the gas assembly to the bottles. Hand tighten the threaded connector to the gas.

NOTE: Propane is a reverse thread to tighten



7. Offer up the tail to the second gas bottle and hand tighten in the same way. Make sure the tail is not stretched.



8. Use the spanner to tighten the fixings on both cylinders. Make sure they are firm. Do not over tighten.

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9. Connect the section of orange hose from the beacon to the end of the orange hose from the gas assembly.



10. This is a simply quick release system that locks into place when pushed together.

11. Check connections are all firm (beacon and gas assembly) and check the torch is stable.

12. Set up is now complete. Check for gas leaks using the Gas Detection Fluid to check gas joints if required (instructions are on the bottle).



13. Ignite the wax coated fabric on the 'Lighting Stick'. Let the fabric catch flame and burn for circa 1 minute before igniting the beacon. This ensures that the lighting stick is well lit before offering it up. The lighting stick has enough fuel to burn for circa 3 minutes.



14. This is where you need 2 people. **Person 1** is to hold the lighting stick up to the burner. Stand upwind i.e. you are not standing in the direction of the flame once it is lit.



15. **Person 2** is to turn on the gas (slowly) at the gas bottle nearest the regulator. Once the beacon is lit, turn on the gas at the second bottle. Both bottles should now be full on.



16. Once the beacon is lit, remove the lighting stick and extinguish it using a small bottle of water. Your gas beacon will now burn away quite happily for the next hour.

Adjusting the flame: The regulator will be set to 'full' at the factory. If need be, you can decrease the size of the flame by adjusting the rotating value on the top of the regulator.



To turn the beacon off: Close off the gas supply at the 2 bottles. The flame will drop and go out. Be sure to let the beacon cool down before dismantling it. It will be hot.