

Model Balloon Inflation Manual

1. *Envelope Set Up: Roll out the balloon envelope making sure that the ground surface is clear of any sharp objects. You will need a large open space with 25-50 square feet to work with. Position the envelope down wind, meaning with the top in the direction the wind is blowing. You can use a tarp to help with keeping the balloon clean and protected.*
2. *Burner System Test: We test the burner system to make sure it is working properly before flight. To do this, first check to make sure all valves are closed. Then position the gondola so that the vertical propane tank is on your left hand side. This left hand tank powers your vapor pilot lights. Once this is done, it is necessary to have propane tanks screwed into each valve on the manifold in the gondola in the remaining corners. This is your main burner fuel supply.*

Screw in all the tanks with the threads down until tight. Once connected you will check for leaks by opening the two valves that are attached to the tanks all the way open while being aware of any hissing and/ or propane smell (which might indicate a leak). Next, turn the valve connected to the pilot light tank on your right hand side counter clockwise 1/4 turn; you should now hear a hissing sound. From here you can test the remote. To do this, turn on the Remote first by pushing up the button on the bottom right. Next, turn the RC receiver in the gondola. At this time use your left joystick on your remote remote to light the pilot lights. (Down and to the left.) If done right you will hear a slight change in sound and see a slightly visible 1 1/2 in. blue flame emitting from the pilot(s.)

Give a slight push to the left hand joystick down or to the left on the remote. This will cause the system to emit a flame from the burner. This flame can range from one to five feet in height. If the flame emits from the burner while slightly pressing the joystick on the remote, then the burner system check is complete.

After the burner system test is complete, turn off the polite light tank valve which will turn off the pilot lights. Then turn off the other propane tank valves so that everything is off. Turn off the RC receiver first and then the remote.

3. *Attach Balloon Envelope: The next step is to attach the gondola to the balloon envelope. This consists of connecting the carabiners attached to the load lines of the envelope to the corresponding D rings on the gondola. If flying with a scoop, make sure the scoop is positioned down closest on the ground. Now attach the tether line to the frame.*
4. *Inflation: You will want a fan of some sort. Any type of gas powered will work. Having one or two people hold open the mouth of the balloon you will send ambient air into the balloon until it reaches approximately 3/4 capacity.*
5. *Flight: Repeat Step#2 instructions for burner operation for inflation. Once the main tanks and pilot lights are on. Hold the burner frame so it is pointed toward the center of the balloon. Be sure to have the burner portion of the gondola inside the balloon. Your cables will be loose and that is ok. Do one short puff and let the heat hit the top of the balloon and see how it reacts. Follow the short burst with a long burn (if you can) all the way until the balloon and basket are standing. If the sides start to concave you may have to switch from long burns to shorts burns so you don't melt your fabric. With short blasts of heat, and time off the burner for it to cool, the balloon will rise and descend accordingly. * Remember to always keep the balloon tethered.*
6. *Fuel Replacement: To replace empty tanks during flight, you must first land the balloon. Turn off all three tanks (pilot light and two main tanks) while the balloon is standing up. Unscrew the 2 main tanks and replace them with two full tanks according to installation. Repeat Step#2 for re-ignition for continued flight. ***** Always turn off pilot lights while changing tanks.*

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465 + 58sh double burner w/ frame and pilot light

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