



# Empire Super Freak Barrel Instruction Manual



The Empire Super Freak Barrel is a three-piece barrel that consisting of a front section (tip), a back section (back) and five sized, aluminum inserts. The inserts are used to match the size of the paintball to the barrel to create the most accurate and consistent barrel system available.

The threaded sections of the Super Freak have an o-ring to prevent the barrel from vibrating loose when fired. There are also two o-rings within the barrel back to keep the insert from sliding out of the barrel. Replace and lubricate with Empire SL33K grease as necessary

## Super Freak Assembly

1. Insert the threaded end of the barrel tip into the open section of the barrel back.



2. Hold the barrel back and turn the barrel tip clockwise until it stops (Do not over tighten). Ensure the threads are engaged correctly and are not cross-threading which would damage the both the tip and the barrel back.



3. After the tip and back are merged, choose the desired insert size and install into the barrel back.



4. Push the insert all the way into the barrel back until it stops, if installed correctly, the insert should be flush with the back of the barrel.



#### Barrel Installation

- Make sure your marker is de-gassed, loader removed, no paintballs in the feedneck or breech, and the marker is turned OFF prior to installing barrel.
- While pointing the marker in a safe direction, place the threaded end of the barrel into the front opening of the marker.
- Turn the barrel clockwise until it stops (Do not over tighten).



- Install the included barrel-blocking device. This can be barrel bag or other such device that prevents accidental discharge of paintballs.

To determine the correct bore size:

1. Assemble the barrel and choose an insert and install it into the barrel back.
2. Select 5 – 10 paintballs of the same type you will be using to play
3. Place a ball into the end of the barrel
  - a. Tip the barrel, if the ball rolls through without any outside force, switch to a smaller insert. The inserts have the size engraved onto the side of each one (sized .675, .680, .685, .690, .695)
  - b. If the ball barely fits into the barrel and you can't blow it out (easily) switch to a larger insert.
4. When the ball is blown out of the barrel listen for a small pop sound. If you can blow the ball out of the barrel without blowing hard you should have a good ball-to-bore match.

*Note: The more you exhale through the barrel, the more moisture can accumulate within the insert and affect your testing. If you notice that the ball is starting to stick, or see a buildup of moisture, clean and dry the barrel before continuing with the selection of bore sizes.*

**Product Information**

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