

Construction is similar to other types of rockets. **FIRST A NOTE OF CAUTION:** In the case of whistle rockets and all other types of rockets using a whistle mix type of formula, these rockets must be **PRESSED AND NEVER RAMMED** using a mallet or hammer etc. In the event of a stuck rammer, do not attempt to twist the rammer loose from the spindle. Otherwise, you might get an explosion. If a rammer should get stuck, soak in water. After a while you can remove the stuck rammer by cutting away the case and removing any propellant.

The table below shows the various diameter rockets, their approximate case lengths, pressing pressures etc. The case length column is just a guide, and your tools have been made to fall into these approximate case lengths. Longer or shorter cases can be cut to suit the individual. The rammers are long enough to accept up to a 1" longer case than listed on the table. When pressing whistle rockets it's best to add just enough whistle composition to the case to fill it one "inside diameter" (I.D.) Example: If you have a ¾" I.D. rocket case, the composition should rise ¾" in height with each pressing.

Table 1: Recommended Case Lengths for Extreme Whistles

Whistle Rocket I.D. (inches)	Case Length (inches)	Area of Tool (sq. inches)
½	3½	.196
⅝	4	.307
¾	6½	.441
⅞	6½	.6
1	7½	.785
1¼	8½	1.227
1½	10	1.77

Pressing pressures should be 6500 PSI. This does not mean to mash down with your press till the gauge reads 6500 pounds. You have to take into account the diameter of your rocket tooling, the cylinder diameter etc. Example: If your cylinder is 1¾" diameter this equals 2.405 square inches. Use the following formula to figure what the pressure gauge should read after factoring in the square area of your tool and the square area of the hydraulic cylinder.

Cylinder diameter of 1¾" = 2.405 square inches

Tool diameter (example ¾" = .441 square inches)

Desired pressing pressure = 6500 P.S.I.

Example = .441 (tool sq. inches) x 6500 PSI (desired pressure) = 2866 pounds. Next 2866 pounds divided by cylinder square inches (2.405) = 1191 PSI gauge pressure.

Extreme Whistle Rocket Fuel

- 70% Potassium Perchlorate
- 30% Sodium Benzoate
- 3% Vaseline-additional
- 2% Iron Oxide-additional

Note: When attaching guide sticks it is best to glue and tape to the rocket case. These rockets take off so fast that I have seen them leave the sticks behind.

