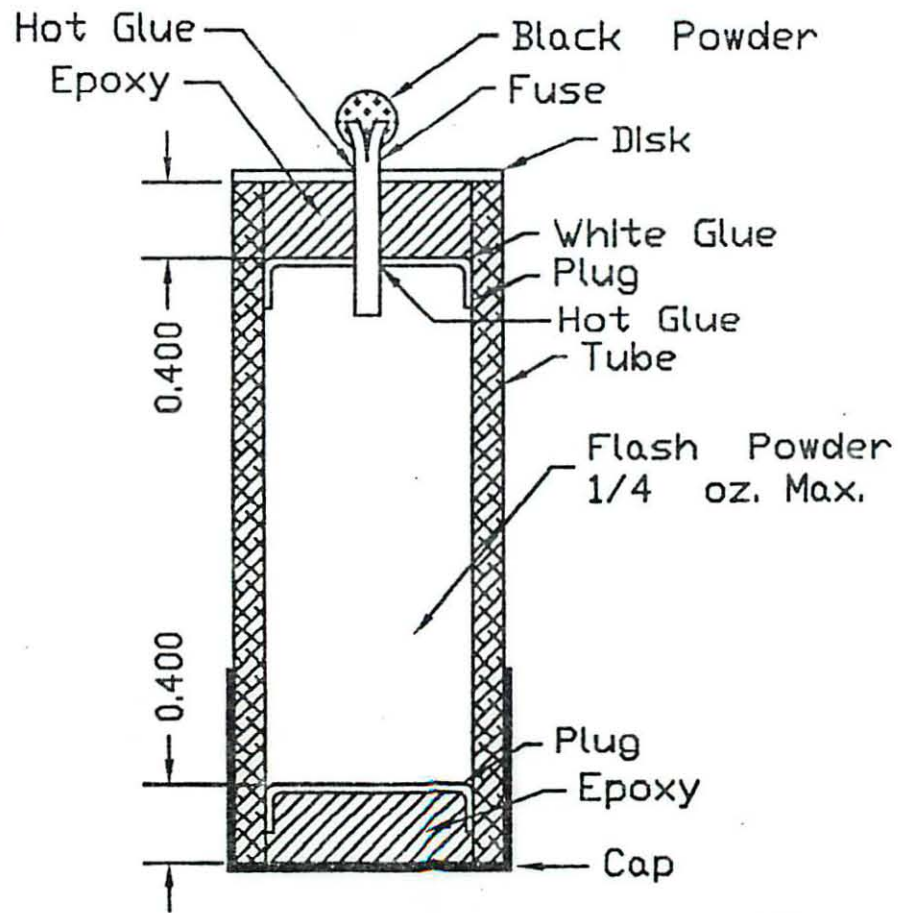


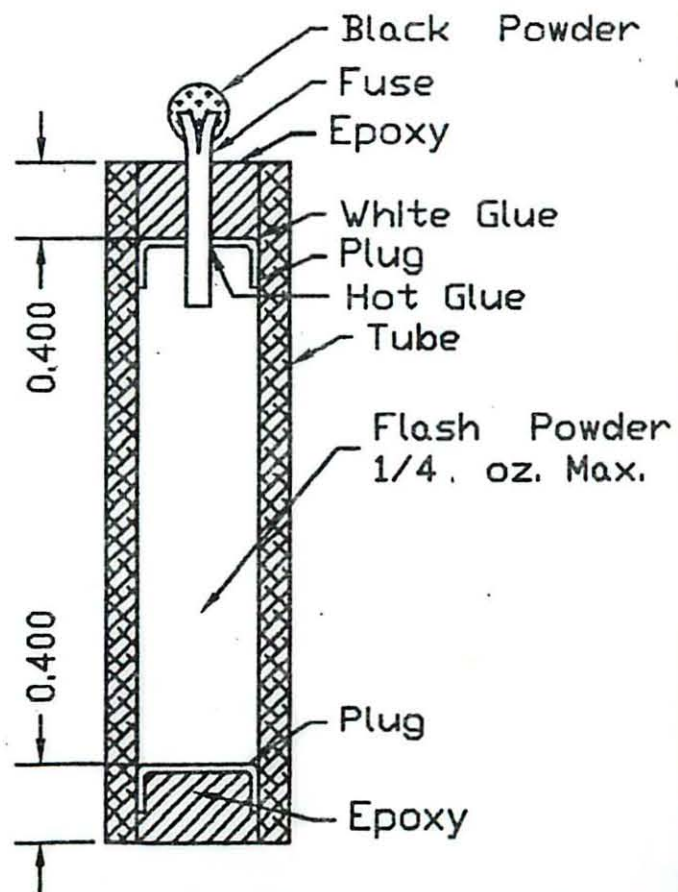
BIRD SCARE



37/38 mm



25/26.5 mm



1. Poke a fuse hole through one plug and insert a 2-1/2" safety fuse 1-1/4" into plug. Hot glue into place as shown on drawing.

Note: Depending on the type of fuse, a piece of masking tape may have to be wrapped around the fuse where it goes through the epoxy to prevent the epoxy from penetrating the fuse and stopping the fuse from working.

2. Insert the plug with fuse into the tube using a dowel rod with a hole into it. Seat the plug within .4" from the end.

3. Run a small bead of white glue at the seam of the plug and tube using a hypodermic needle. Be sure not to get the glue anywhere else.

4. Coat the top of the plug and inside of the tube with fiberglass resin without hardener in it. Use a brush to do this. Allow the resin to soak in for about 10 minutes.

5. Mix the resin with corn cob hulls (shell tumbling media may be used) and hardener. Fill the tubes to the top.

Note: The above process is very important so that the resin will seal to the tube and the corn cob allows for shrinkage of the resin.

6. Glue a disk on the 37mm tube on the fuse end. This may be done with resin at the time the end is filled or afterwards with white glue.

7. Turn over and put in the pay load. If you use flash powder, seal as above in step 4 & 5. If you use fast smoke or stars, just glue the top plug in with white glue.

8. Cut the projecting fuse to 1/4" in length and split vertically for about 1/8". Mix black powder with water. With a very small spatula, form a ball of black powder on the fuse end.

9. Cap the 37 mm shells.

10. Load into shell with fuse down using about 40 grains for 25 mm and 70 grains for 37mm of FFFg Black Powder. A rubber band may be wrapped around the tube before insertion in the shell to hold it into place.

Note: Do not try to over drive the tube as this will result in the tube collapsing and allow the flame from the left charge to enter into the pay load.

Note: This method has worked very well for me. As each step depends on careful workmanship, no guarantee is given or implied. Follow instructions very carefully and understand the hazards. If any steps are changed, be sure you know what you are doing. Remember, a maximum of 1/4 oz. flash powder is allowed by federal law.

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A little information on a shotshell round that the government experimented with during the Vietnam period. It was designed for combat use, with the theory that a flechette load would be more effective than a standard shot load in close combat. This is a 12 gauge shotshell filled with 20, 8 grain flechettes, encased in a polyethylene flechette container and held in place, within the container by a granular polyethylene filler. The use of the flechettes was designed to increase both the effective range and lethality of the shotgun in combat. Several loadings were used, but the data following is typical of them all.

The shell contains a non-corrosive primer a strong polyethylene plastic body, a brass base and 25.5 grains of HPC #1 propellant. The flechettes rest on an aluminum disc at the base of the flechette container, and they are held in place by the tightly packed granular polyethylene filler. The shell requires no special modification of the weapon and can be chambered and fired in the same manner as a standard shotshell. The length of the shell is 2.37" and its total weight is 23 grams. The muzzle velocity is about 1950 feet per second, while the chamber pressure has a maximum average of 1100 pounds per square inch.

The data below indicates the effectiveness of the round under various conditions. This addresses the dispersion of an average of ten rounds.

1. Cylinder Bore
 - +70 degrees F - Minimum of 78% hits in 30" target at 40 yards.
 - 0 degrees F - Minimum of 75% hits in 30" target at 40 yards.
 - +125 degrees F - Minimum of 70% hits in 30" target at 40 yards.
2. Full Choke
 - +70 degrees F - Minimum of 73% hits in a 30" target at 40 yards.
 - 0 degrees F - Minimum of 70% hits in 30" target at 40 yards.
 - + 125 degrees F - Minimum of 62% hits in 30" target at 40 yards.

