

M8 Smoke Device

A Do-It-Yourself Kit

Rev 1.5



Mixture Filling & Assembly Instructions

**Video Instructions
On YouTube**

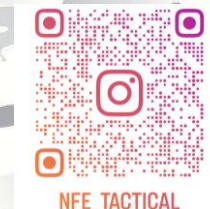


**Video Instructions
for igniters**

**A product exclusively by
NFE Tactical LLC**



www.nfetactical.com



nfe_tactical



Touch of Tism

Items you will need (Not included in the kit)



Coffee Grinder



Pocket scale



Metal Spoon



Paraffin Wax
Pellets



Single burner
Cooktop



Small 5-6" pot



Potassium
Nitrate
(Technical Grade)



Sugar

Additional items you will need (Not included in the kit)

The ignitor kit

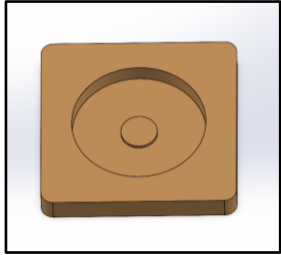


<https://inventionincarnate.com>

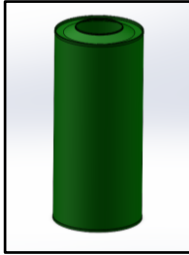


<https://www.skylighter.com>

Items Included in the kit



Wood Fixture 1X



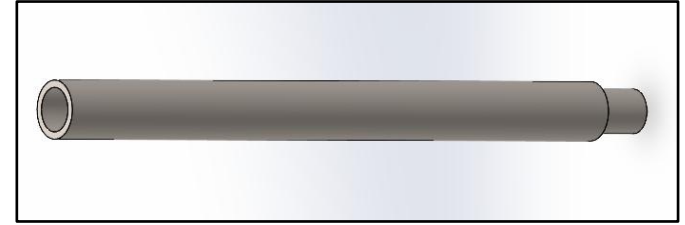
16oz Can with
cap 4X



Silicone Plug 1X



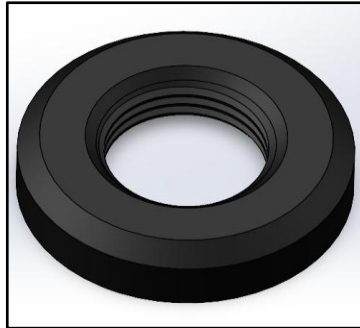
Clear Mixing cup
4X



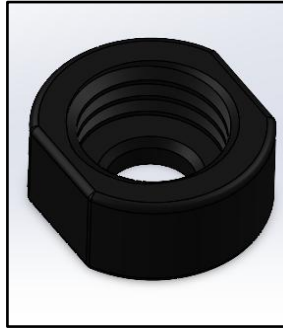
Steel Core Rod
1X



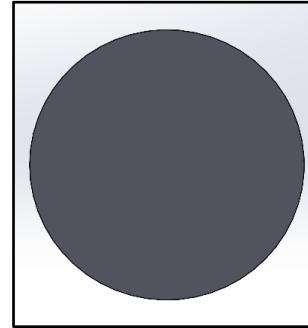
Head Assembled
4X



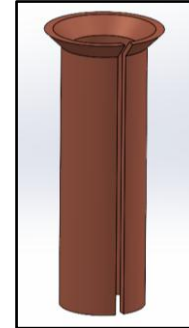
Can Adapter 4X



Tube Nut 4X



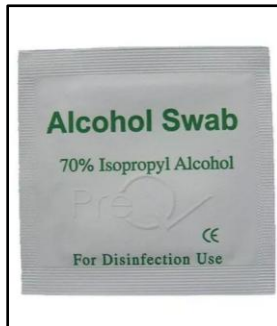
Vinyl Sticker 4X



Copper Tube
4X



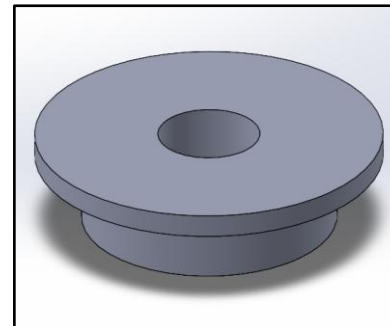
Super Glue
4X



Alcohol Swabs
4X



Funnel 1X



Core Rod
Bushing 1X

PART 1

THE MIXTURE

Items you will need in this section



Pocket
scale



Metal
Spoon



Non-Scented
Candles



Potassium
Nitrate
(Fireworks Grade)



Sugar



Clear Mixing cup

1

Place a cup on the scale and hit tare. This will zero out the scale, so the measurement is accurate.

2

Using the spoon, place **60 grams of potassium nitrate** into the cup. Do a little at a time to reach 60 grams. Set this cup aside.

3

With a new cup on the scale, using the spoon, place **45 grams of sugar** into the cup. Do a little at a time to reach 45 grams. Set this cup aside

For a slower burn time use 40 grams of sugar(Same as M8)

4

Place a new cup on the scale. If you purchased solid candles, use a scissor or box cutter and chip away chunks of wax. Put **35 grams of wax** into the cup and set aside.

Try to stay within +/- .5 - .8 grams. Any extreme deviation from the above amounts will result in an undesired result.

You will need to repeat this process 4X to fill the 16oz can

PART 2

THE MIXING

Items you will need in this section



Coffee
Grinder



Single burner
Cooktop



Small 5-6" pot

5

Take your 60 grams of potassium nitrate and 45 grams of sugar and combine them in the coffee grinder. Mix for 1-2 minutes while tapping the sides, shaking it, turning it upside down, ensuring the mixture is even. These grinders are good, but a lot of the powder falls below the blade. When this is complete place the mixture into an empty cup and set aside.

6

Plug in your cook top with the pot on the burner and set to the lowest setting. Dump your 35 grams of candle wax into the pot and melt. Stir with a metal spoon so all the chunks melt faster.

7

When the wax is completely melted, dump your potassium nitrate and sugar mix into the wax. Using the metal spoon stir the mixture until the combined powder is fully coated. This mixture we **DO NOT** want to caramelize like other recipes so you may have to turn off your heat to prevent this. Stir until smooth.

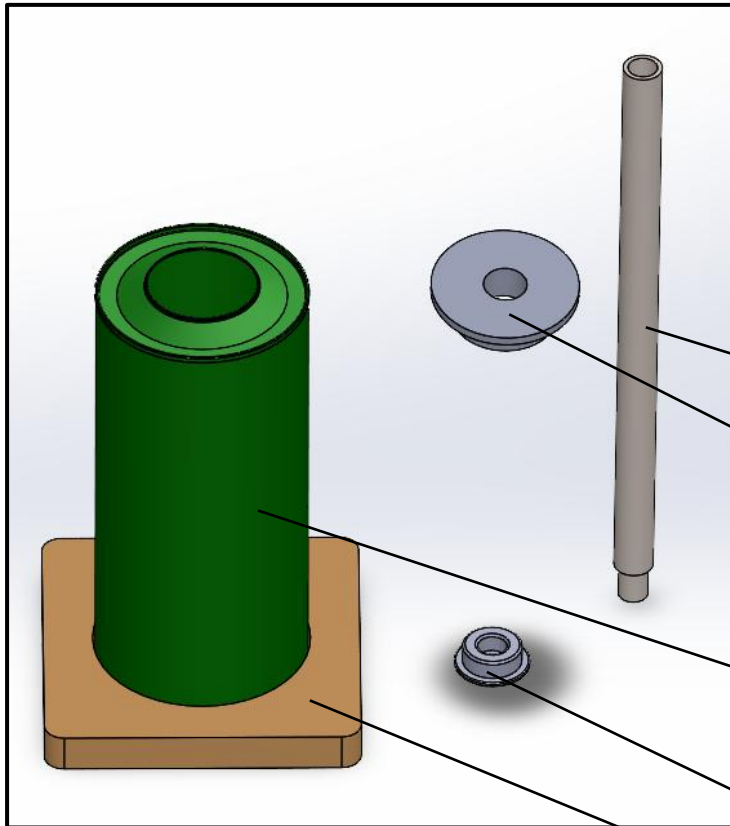
8

Once the combined mixture of potassium nitrate and sugar is coated with melted wax, the mixture should form a slurry or a smooth wet paste. Turn your burner off and let sit while you prepare for pouring. Turn the burner on again to keep warm if you need to.

**You will need to repeat this process twice
to fill the 8oz can**

PART 3

THE POUR



Each kit comes with one wooden fixture to hold the can in place during mixture filling. The kit also includes a silicone plug, core rod bushing and steel core rod.

Steel Core Rod

Core Rod Bushing

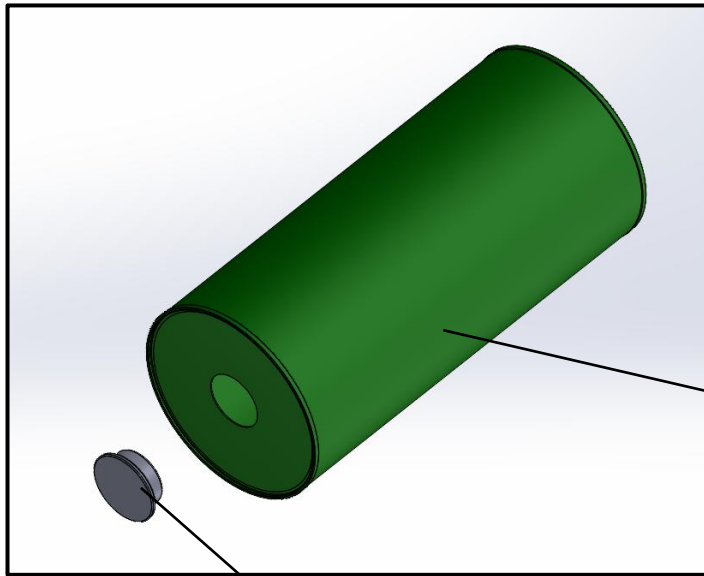
Can (Smoke Device body)

Silicone Plug

Wood Fixture

9

Install the Silicone plug in the bottom end of the can. Make sure the plug is seated all the way in to ensure a good seal.

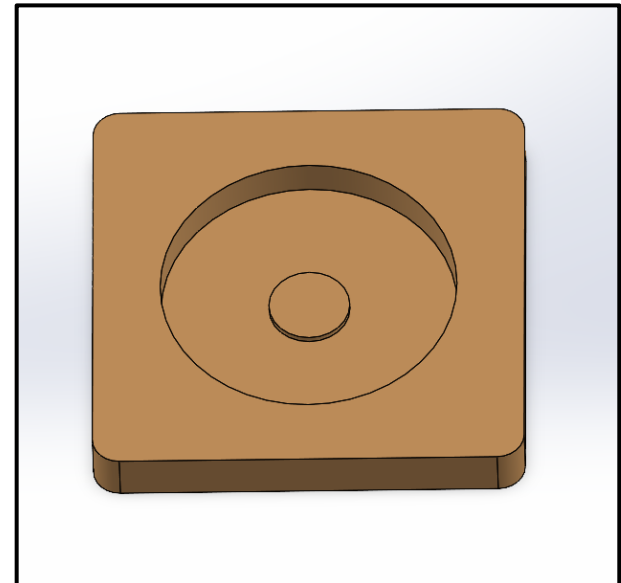


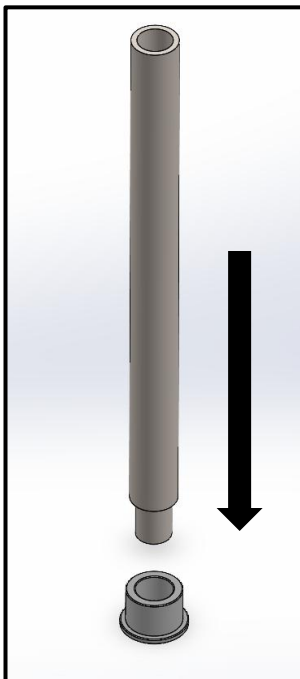
Can (Smoke Device body)

Plug

10

The wood fixture has a disc in the bottom for the silicone plug to rest on. Place the can into the fixture.





11

Place the small end of the steel core rod into the inside of the silicone plug. Place the funnel on top of the opening of the can. Pour the smoke mixture into the funnel and push down, if necessary, with a spoon.

12

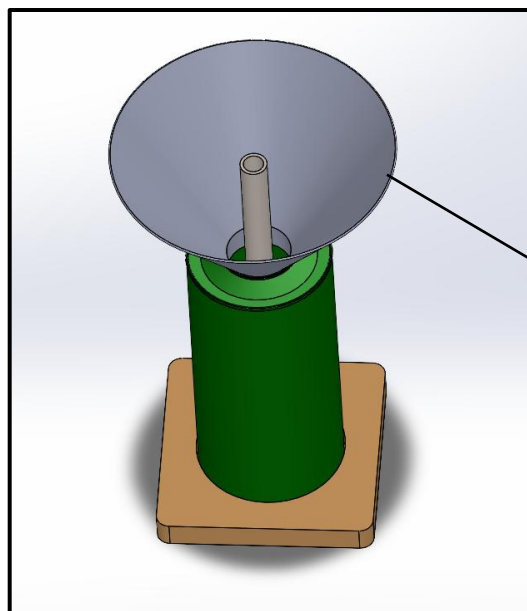
Remove the funnel.

13

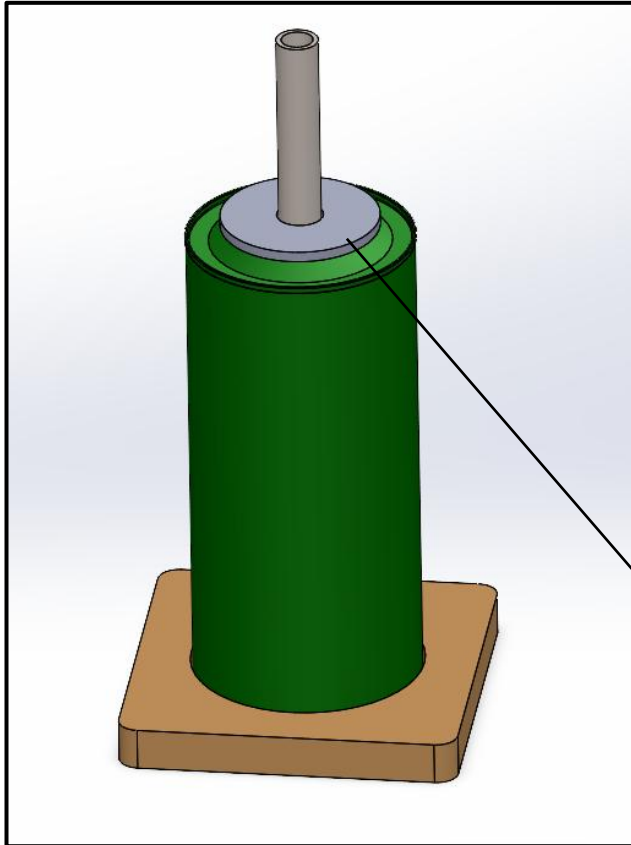
Keeping the can held down flat, jog the fixture back and forth to get the hot mixture to level out.

14

Make new mixture of potassium nitrate, sugar and wax. Repeat steps 1-14.



Funnel



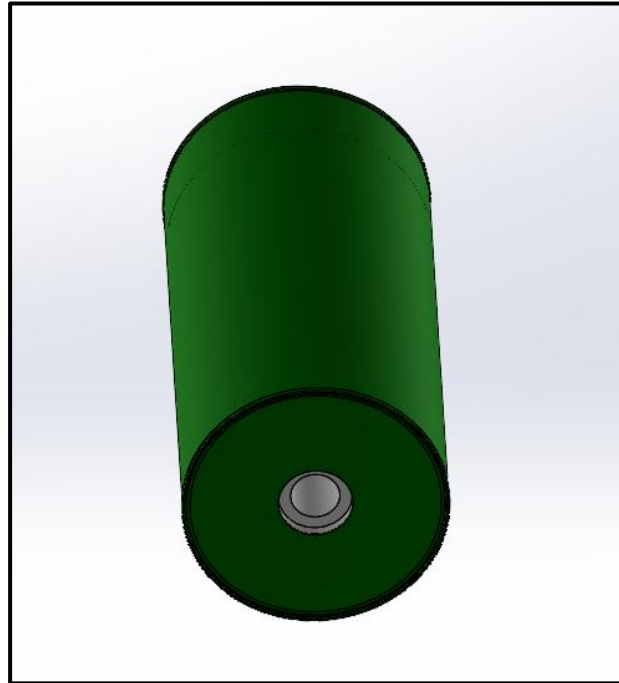
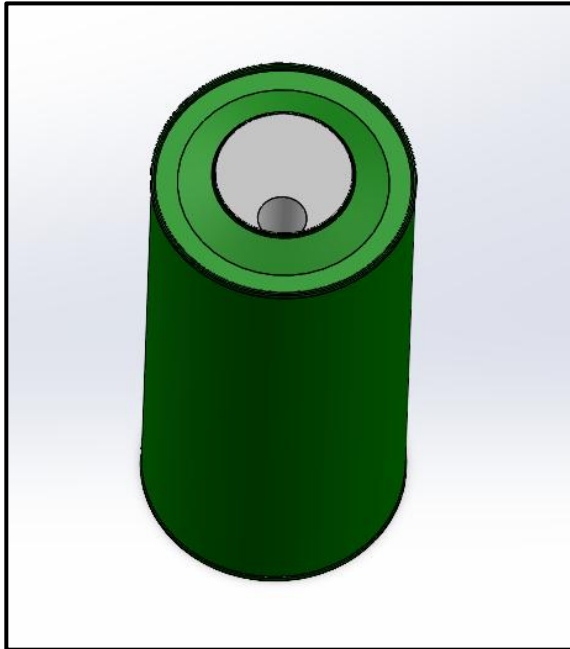
15

Install the core rod bushing on top of the can inlet with the steel core rod still inside. The core rod bushing will help keep the steel core rod centered.

16

Place in freezer for 45min to 60min. Air cooling can be done but cooling times may vary.


Core rod bushing



17

When the mixture has completely cooled, remove the steel core rod, the expansion plug and can cap. If the steel core rod is stuck, use a heat gun and let the heat transfer from the top of the steel core rod down to the bottom. Do not aim the heat towards the mixture inside the can. Vise Grip pliers can be used but it will damage the metal. Do not put the damaged end inside the can when you make more.

Repeat the whole process for the other cans provided in the kit.



PART 4 FINAL ASSEMBLY

You're getting nervous now aren't ya



**Watch this detailed video on how to attach the
igniter to the M8 head.**

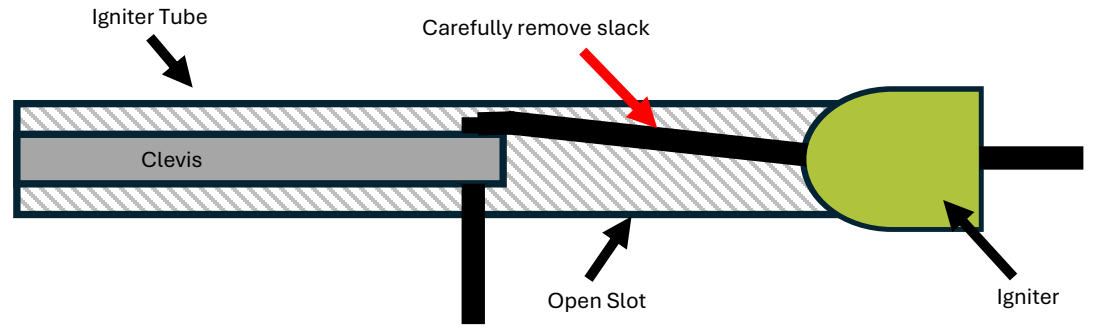
**This method includes the M8 Instant Deployment
and Spoon Version**



Setting the igniter to the M8 Head

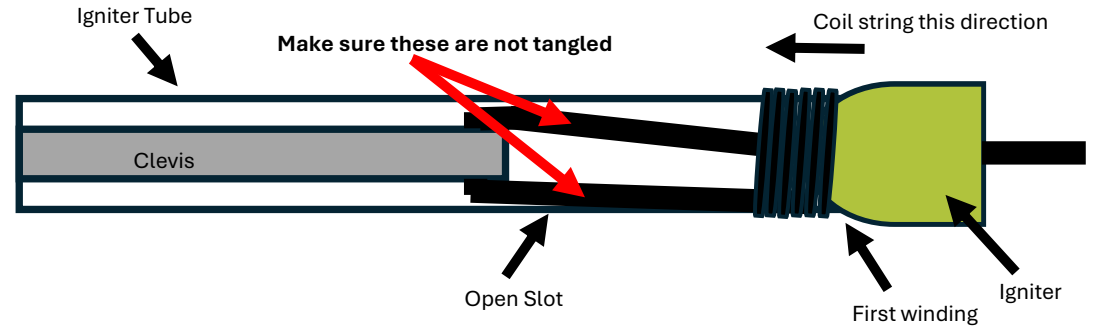


1



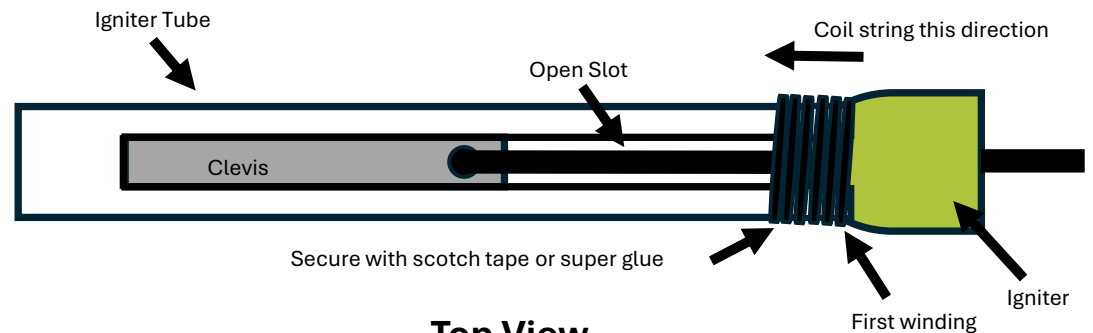
Side Cross Section View

2



Side Cross Section View

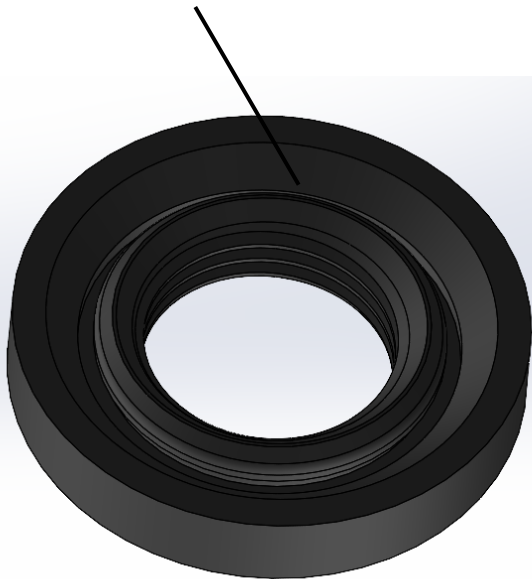
3



Top View

STEP 4

Put glue into groove of the can adapter

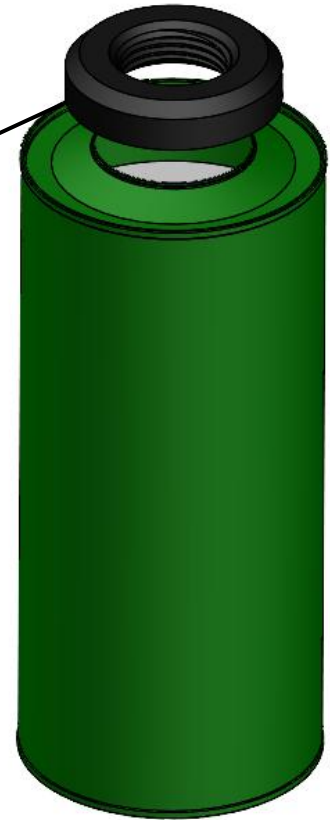


STEP 5

Place the can adapter on top of the inlet of the can and press until you hear an audible snap.

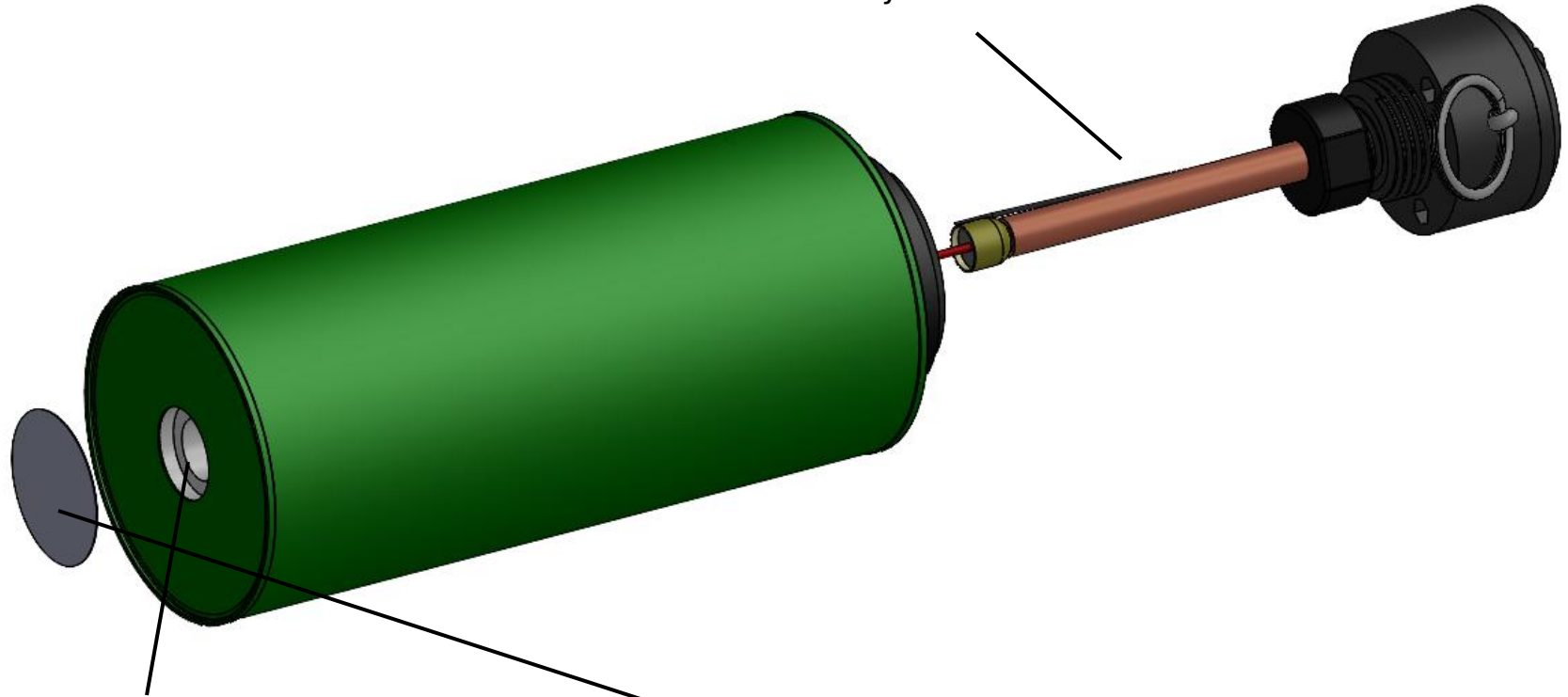
May also use a rubber mallet to hit into place.

If using a hammer, place a piece of wood on top.



STEP 6

Make sure the copper tube is straight and concentric. Thread the M8 Max Head Assembly into the can.



STEP 7

Make a mixture of 50/50 potassium nitrate and sugar and pack lightly into the core till full.

STEP 8

Brush off excess 50/50 mix. Clean the bottom of the can with the provided alcohol wipes and let dry. Place vinyl sticker on bottom to seal.



Congratulations!
You did it.
You created your first smoke device.

Ok now calm down. Before you pull the pin,
some safety needs to be considered.



- Always hold the smoke device with the bottom facing directly down.
- Never point it at anyone and do not have it on an angle towards yourself.
- Hold the smoke device with your arm extended with your dominant hand.
- Pull the keyring with your opposite hand.
- The ignition is instantaneous.
- Immediately throw the smoke device to a safe distance
- The reaction of the mixture is hot. Do not throw it any area that can catch fire, or you don't want burned.
- Wait 20 minutes before picking up spent smoke device
- Have fun!