



# *Galactic Props*

## Jedi Training Remote

### *Build Instructions*

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## 1. *About the Jedi Training Remote*

The Marksman-H training remote, often referred to as a remote or lightsaber training drone, was a type of droid used to train its user how to properly deflect blaster bolts with a lightsaber.

Quick and unpredictable, they had multiple power levels, including lethal and sting. When used to train Jedi Initiates, they remained on the sting setting, creating a feeling that Jedi Gella Nattai later described as "tickling." They were also capable of being programmed for defensive purposes. Continual exposure to Jedi training remotes' sting blasts potentially led to coma and incontinence.

The Jedi Order used remotes to train Jedi Initiates during the High Republic Era and later waning days of the Galactic Republic. During the reign of the Galactic Empire, the Imperial Army was known to use them as drones.

En route to the planet Alderaan, burgeoning Jedi Luke Skywalker practiced against a Marksman-H remote, using his father's lightsaber. Though initially unable to block the remote's fire, he learned to rely on the Force when his mentor, Jedi Master Obi-Wan Kenobi, challenged Skywalker by blocking his sight. Several decades later, rogue stormtrooper Finn happened upon a Marksman-H remote, stored in a brown bag, while looking for bandages to treat the injured Wookiee Chewbacca. Sometime after that, Rey used one while furthering her Jedi training on Ajan Kloss.

My version of the Class-A Thermal Detonator has been designed to add Electronics for Light and Sound. It has also been designed so it's relatively easy to print and paint.

All the images used in these Build Instructions are images from my design done in Fusion360. I do not consider it to be 100% screen accurate but it's pretty close.

# STAR WARS EPISODE IV A NEW HOPE



## 2. Tools List

The following tools are what I recommended to use to build your Jedi Training Remote.

### 2.1. 3D Model

- Eye Protection - Goggles to protect your eye's from the dust particles
- Dust Mask - For protection from breathing in the dust particles
- Sandpaper - Various grades 80 Grit, 180 Grit and Wet & Dry 600 Grit (A few sheets of each)
- Small Metal Files - Various widths and shapes
- Super Glue
- 2 Part Epoxy Glue
- Small Pair of Side Cutters
- Needle Nose Pliers
- Exacto Knife
- Filler - Bondo, wood filler, fine car filler or any other type of filler that is easy to sand can be used.
- Paint - Filler Primer, Colours of your choice

### 2.2. Electronics

- Multi-Meter - For testing circuits and connections (**VERY IMPORTANT**)
- Soldering Iron or Soldering Station
- Solder
- Solder Wick
- Wire - 28AWG or 30AWG Silicon wire recommended
- Wire Stripper
- Heat Shrink Tubing - Various Sizes
- Hot Air Gun, Lighter or Solder Station - For shrinking heat shrink tubing
- Small Pair of Side Cutters
- Needle Nose Pliers
- Solder Helper - Optional

## 3. Sanding and Filling

Sanding all the parts is a necessary process and the more time you take on this process the better the finish of your Jedi Training Remote will be. Start with the 80 grit sandpaper and reduce the grit until a nice smooth finish is achieved.

**PLEASE WEAR A DUST MASK & GOGGLES WHEN SANDING**

**DO NOT USE POWER TOOLS** for sanding, these create heat very quickly and will soften the plastic and potentially ruin the part. Hand sanding is a much slower process but with patience and time you will achieve a really good finish ready for assembling and painting.

- Rounded Parts - Roll sandpaper around the part to sand, both inside and outside of barrels can be sanded this way.
- Flat Surfaces - Use a sheet of sandpaper on a flat surface to sand these parts.
- Awkward Shapes and Small Details - Use small metal files with shaped sides and sanding sticks to sand these parts, being careful not to sand away the details too much.

Check all parts for voids and gaps and fill with filler, once dry and hardened sand these parts again. Only move on to assembling the Jedi Training Remote once you are really happy with the sanded finish of all the parts.

## 4. Priming and Painting

The main colours used for painting the Jedi Training Remote are Silver/Chrome, Red, Grey and Black, but you can paint it in whatever colours you choose. I recommend using cans of acrylic spray paints, but you can also use an airbrush. If you want Rey's Version just paint the 2 Dome Halves Red.

### *PLEASE WEAR A MASK WHEN PAINTING*

- Always paint in a well ventilated area, preferably outside.
  - Wear PPE (Personal Protective Equipment) when painting.
  - Hang parts for printing where possible - This gives a better angle for painting and also for drying the parts.
  - Apply several light coats of paint rather than one which coats and try to avoid drips and runs.
1. Filler Primer - Spray Paint all parts with Filler Primer - This will fill any very small voids or gaps. If there are still some voids and gaps fill these with filler and sand all the parts with very fine grit wet and dry sandpaper to achieve a real good smooth finish ready for the final colour.
  2. Main Colour - Use several light coats of paint allowing each to dry for the recommended time before applying the next coat. Don't rush and try to paint thick coats of paint, you will possibly lose some of the finer details on the parts, and possibly have to start the sanding process again.
  3. Allow the paint to fully dry before attempting to assemble the Jedi Training Remote. I recommend at least 24 hours.
  4. Remember any parts that are required to be glued together will need to have the paint sanded first. Gluing Painted parts together is NOT recommended.
  5. Weathering - This is a personal choice. If you want to give your Jedi Training Remote the weathered look check out the many videos on YouTube showing how to achieve that weather look.

## 5. List of Parts

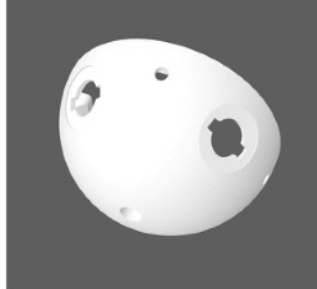
### 5.1. External Parts

Name	Paint Colour	No of Parts Required	Supports YES/NO
Dome Top Half	White (Red Rey's)	1	YES
Dome Bottom Half (With or without Hole)	White (Red Rey's)	1	YES
Center Plate	Grey	8	NO
Center Hinge	White	8	NO
Dome Top/Bottom Button	White	2	NO
Hinge Hatch	White	16	NO
Large LED Front	Silver	8	YES
Large LED Ring Greeblie 1	White	16	YES
Large LED Ring Greeblie 2	White	16	YES
Large LED Ring	White/Red	8	YES
Small Button	Black	8	NO
Small Hatch	Black	8	NO
Small LED Front	White	8	YES
Small Plate	Grey	24	NO
Tracks Small Button	White	8	NO
Tracks	White	8	NO

Dome Top Half x 1



Dome Bottom Half x 1



Center Plate x 8



Center Hinge x 8



Dome Top/Bottom Button x 2



Hinge Hatch x 16



Large LED Front x 8



Large LED Ring Greeblie 1 x 16



Large LED Ring Greeblie 2 x 16



Large LED Ring x 8

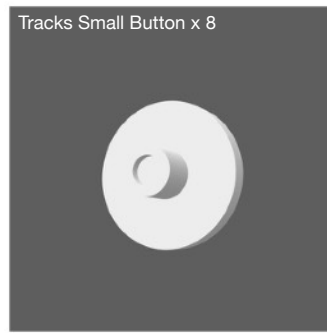
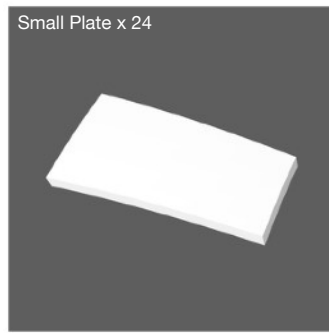


Small Button x 8



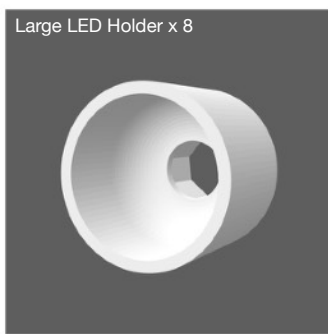
Small Hatch x 8





### 5.2. Internal Parts

Name	Paint Colour	No of Parts Required	Supports YES/NO
Large LED Holder	Silver	8	YES
Small LED Holder	Silver	8	YES



### 5.3. Stand

Name	Paint Colour	No of Parts Required	Supports YES/NO
Acrylic Rod Base	Any	1	NO
Lamp Base	Any	1	YES
Upright Support	Any	1	NO



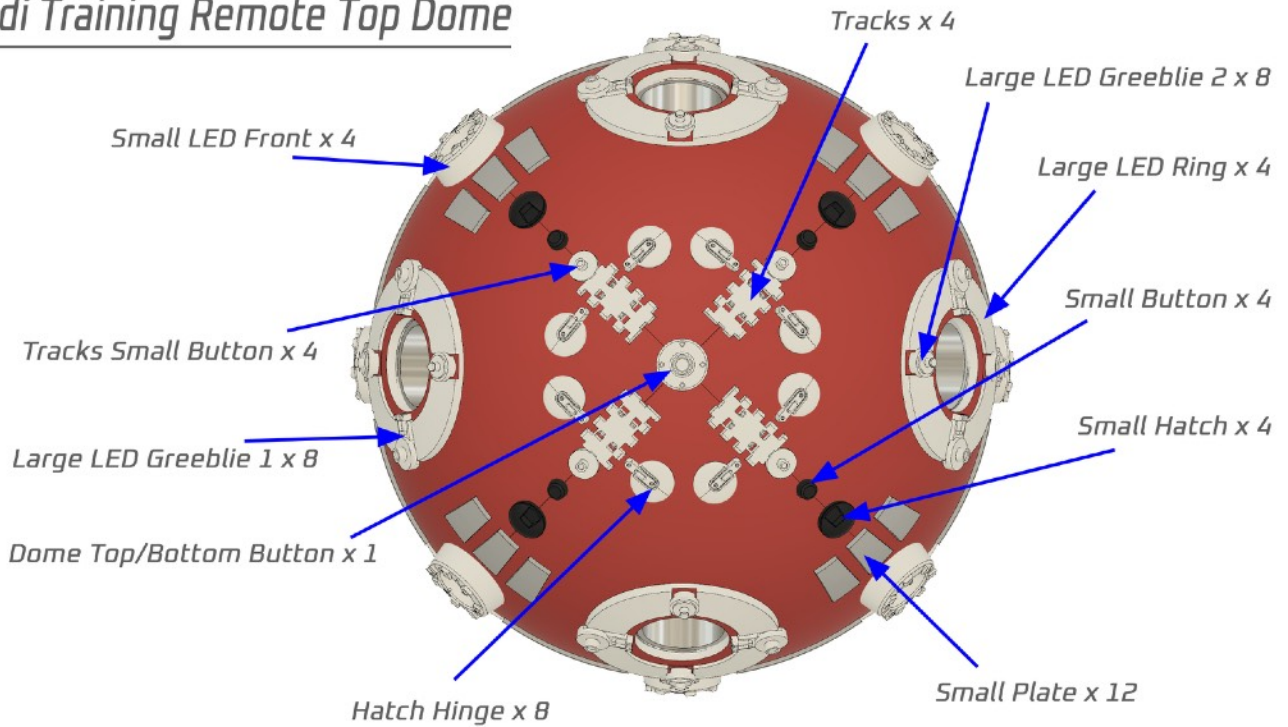
## 6. Hardware Components

Name & Type	Size	Quantity	Location
Neodymium Magnets	6mm x 3mm	8	Top & Bottom Dome Parts

## 7. Assembly Guide

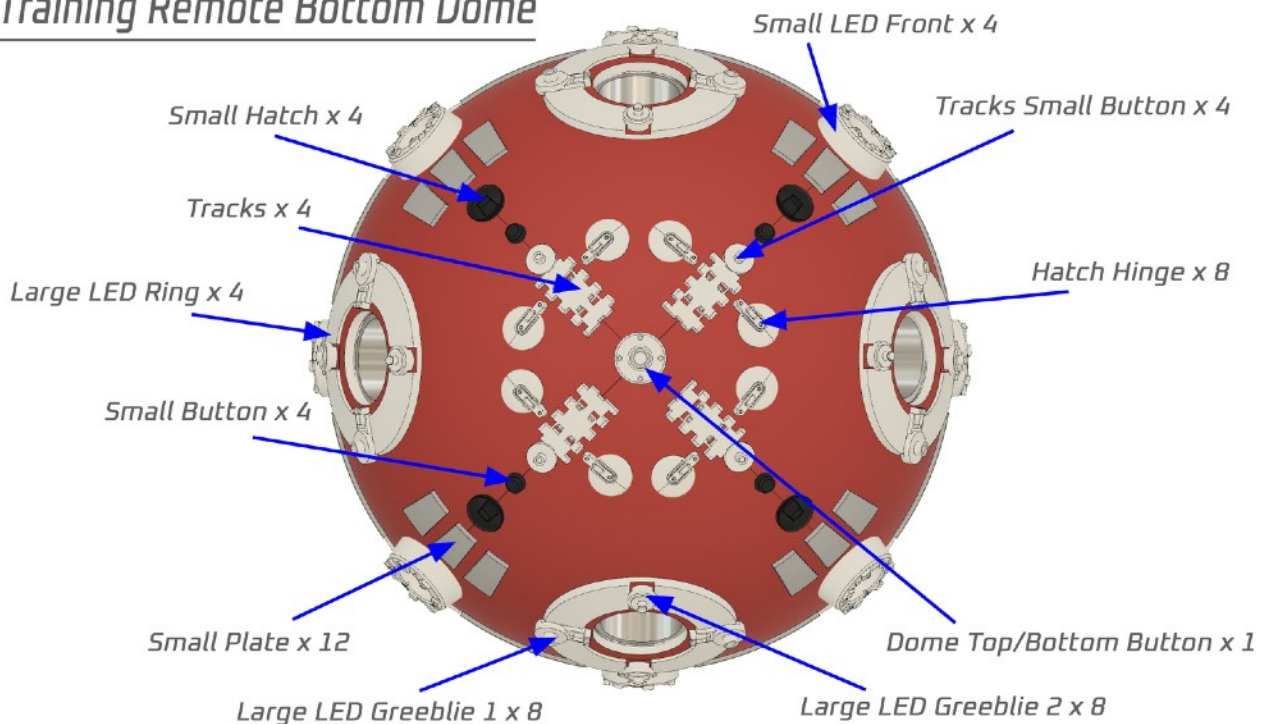
### 7.1. External Parts

#### Jedi Training Remote Top Dome



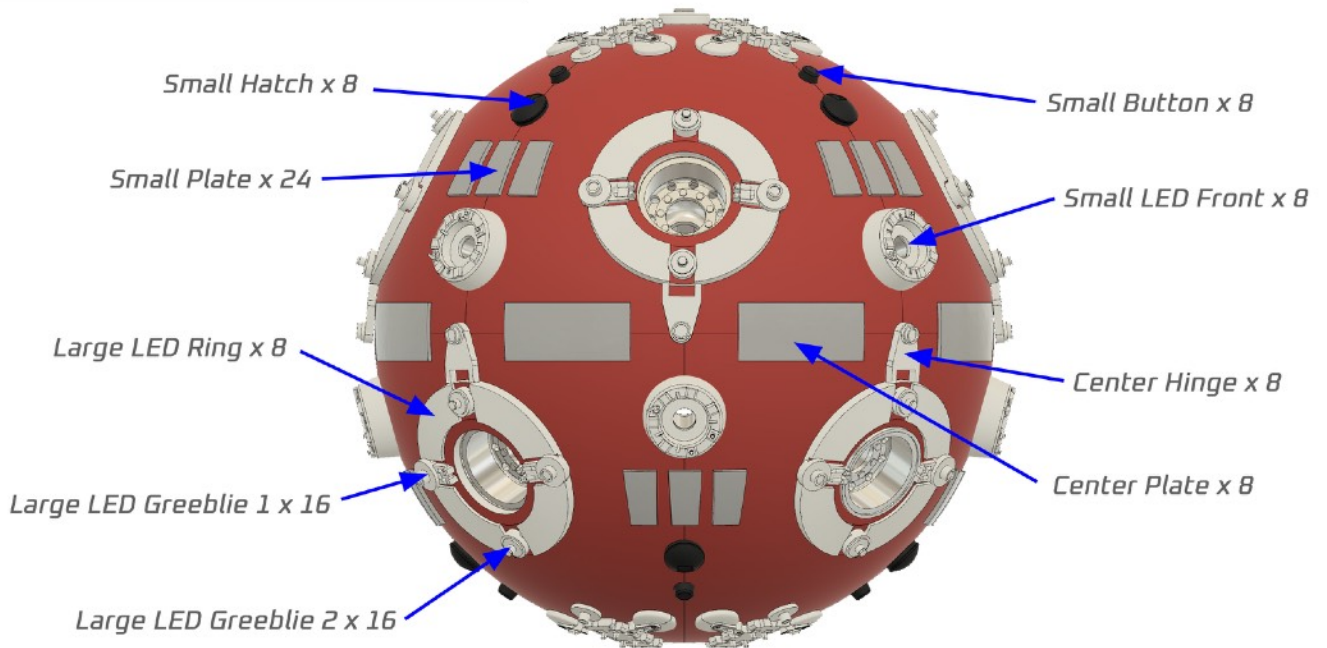
Glue all the parts as seen in the image above to the Top Dome in the positions shown trying to make it as symmetrical as possible.  
Measuring and marking the place out using a pencil first will help.

#### Jedi Training Remote Bottom Dome



Repeat exactly the same for the Bottom Dome.  
Except if using the Bottom Dome with the Hole if making a lamp, you do Not need the Bottom Button.

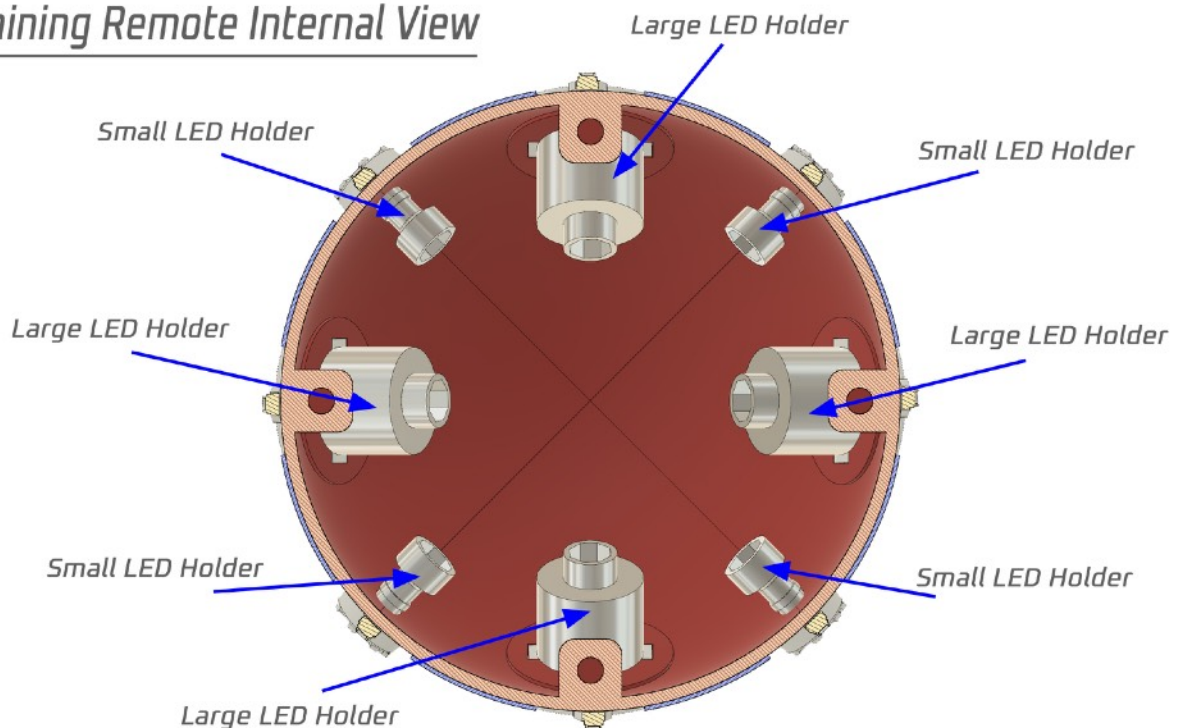
## Jedi Training Remote Side View



You join the 2 Halves of the Dome together using the 8 Neodymium Magnets.  
Glue alternating Center Plates to each half of the Remote, so you should have 4 on each half.  
Do the same with the Center Hinge so there are 4 glued to each half Dome.  
This is so it can be taken apart if needed.

## 7.2. Internal Parts

### Jedi Training Remote Internal View



Repeat the above for the other Half of the Dome.  
You can Now Join the Two Halves of the Dome together.

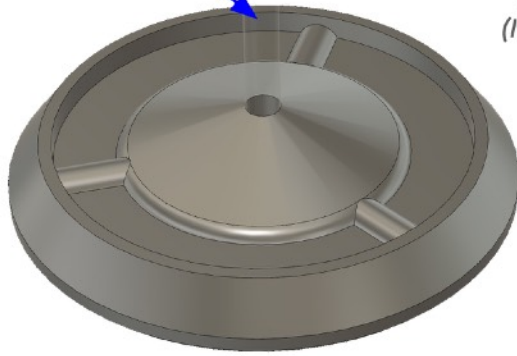


## 7.3. Lamp Stand

### Jedi Training Remote Base

#### Standard Base

6mm Clear Acrylic Rod

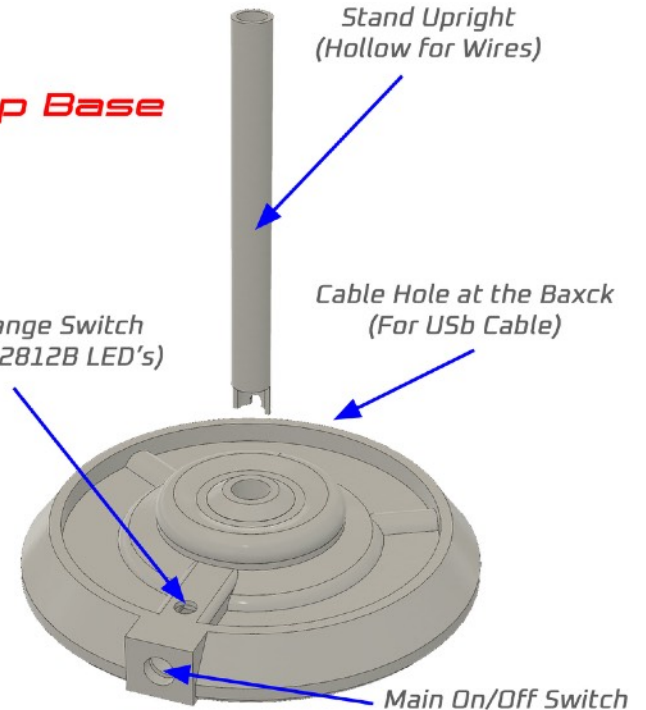


#### Lamp Base

Colour Change Switch  
(If using WS2812B LED's)

Cable Hole at the Back  
(For USB Cable)

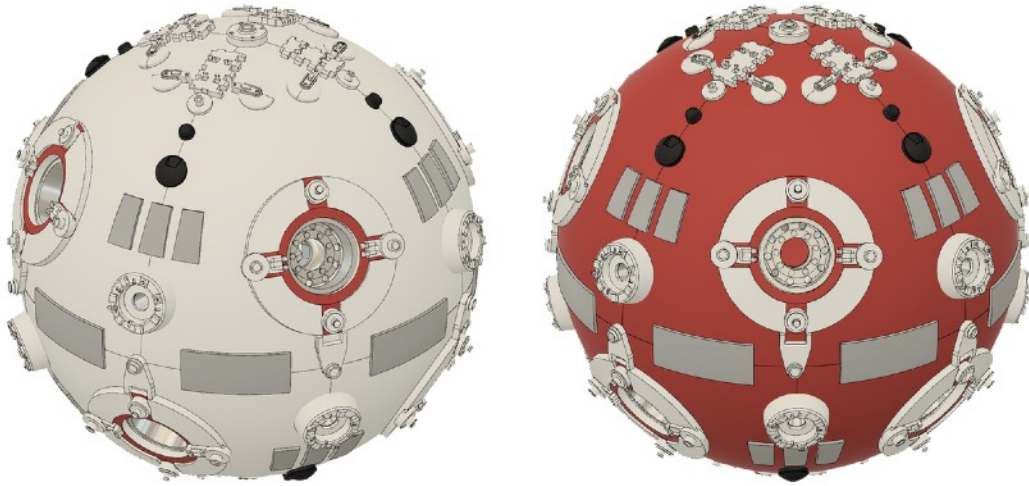
Main On/Off Switch



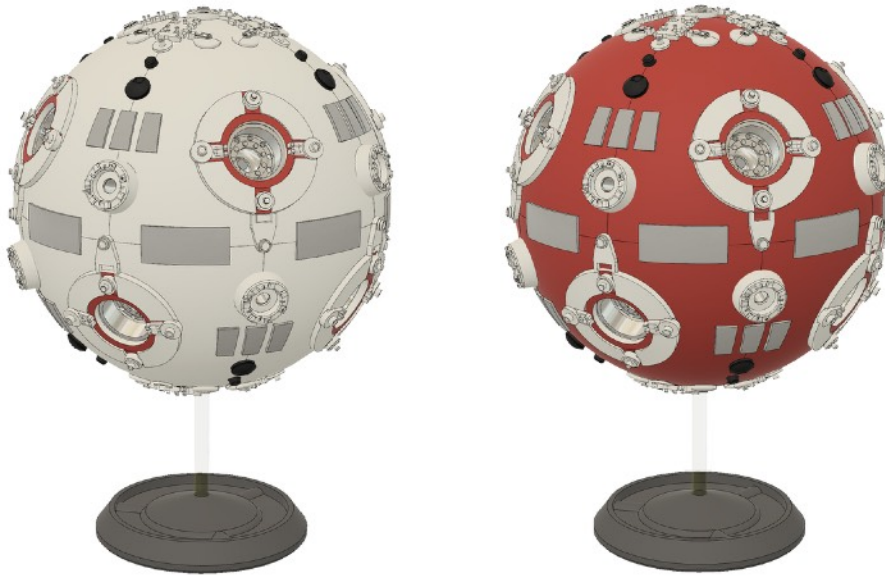
For the Standard Base with No Electronics use a 6mm Diameter Clear Acrylic Rod at whatever length you choose. The Lamp Base uses a 12mm Diameter Latching Switch for the On/Off Switch and a Momentary Switch for the LED Change switch. The LED's can be Programmed using an Arduino Nano.

## 8. Completed Images

[View Larger Image](#)



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