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# PEMENOL Musical Tesla Coil Instruction Manual

Model: GY19269

## INTRODUCTION

The PEMENOL Musical Tesla Coil (Model GY19269) is a compact and interactive device designed for scientific demonstration and entertainment. It features dual modes for generating artificial lightning arcs and playing square wave music via Bluetooth, with a touchable arc for safe interaction. This manual provides essential information for safe setup, operation, and maintenance of your Tesla coil.

## SAFETY INFORMATION

### **WARNING: Please read all safety instructions carefully before operating the device.**

- When operating in music mode, avoid powering on the Tesla coil for extended periods without playing music. This can lead to overheating and potential damage to the device.
- Do not place large or conductive objects directly on the discharge needle. This can interfere with arc generation and may cause damage.
- Avoid placing LED bulbs directly on the surface of the Tesla coil's acrylic case, as the arc may cause damage to the case.
- Keep all flammable and explosive materials away from the Tesla coil during operation.
- The Tesla coil generates high-frequency currents that produce audible noise due to air ionization. Hearing protection is recommended during prolonged use.
- The discharge needle is very pointed. Handle with care to avoid injury.
- Minors should only operate the device under adult supervision.

## PACKAGE CONTENTS

Verify that all items are present in your package:

- Tesla Coil module

- Power Adapter
- Discharge Needle
- Small Neon Lamps (for wireless lighting demonstration)

## SETUP

1. **Install the Discharge Needle:** Carefully screw the discharge needle into the designated port on the top of the Tesla coil module. Ensure it is securely fastened.
2. **Connect Power:** Plug the power adapter into the Tesla coil module, then plug the adapter into a standard electrical outlet. The device will power on, indicated by blue LED lights.

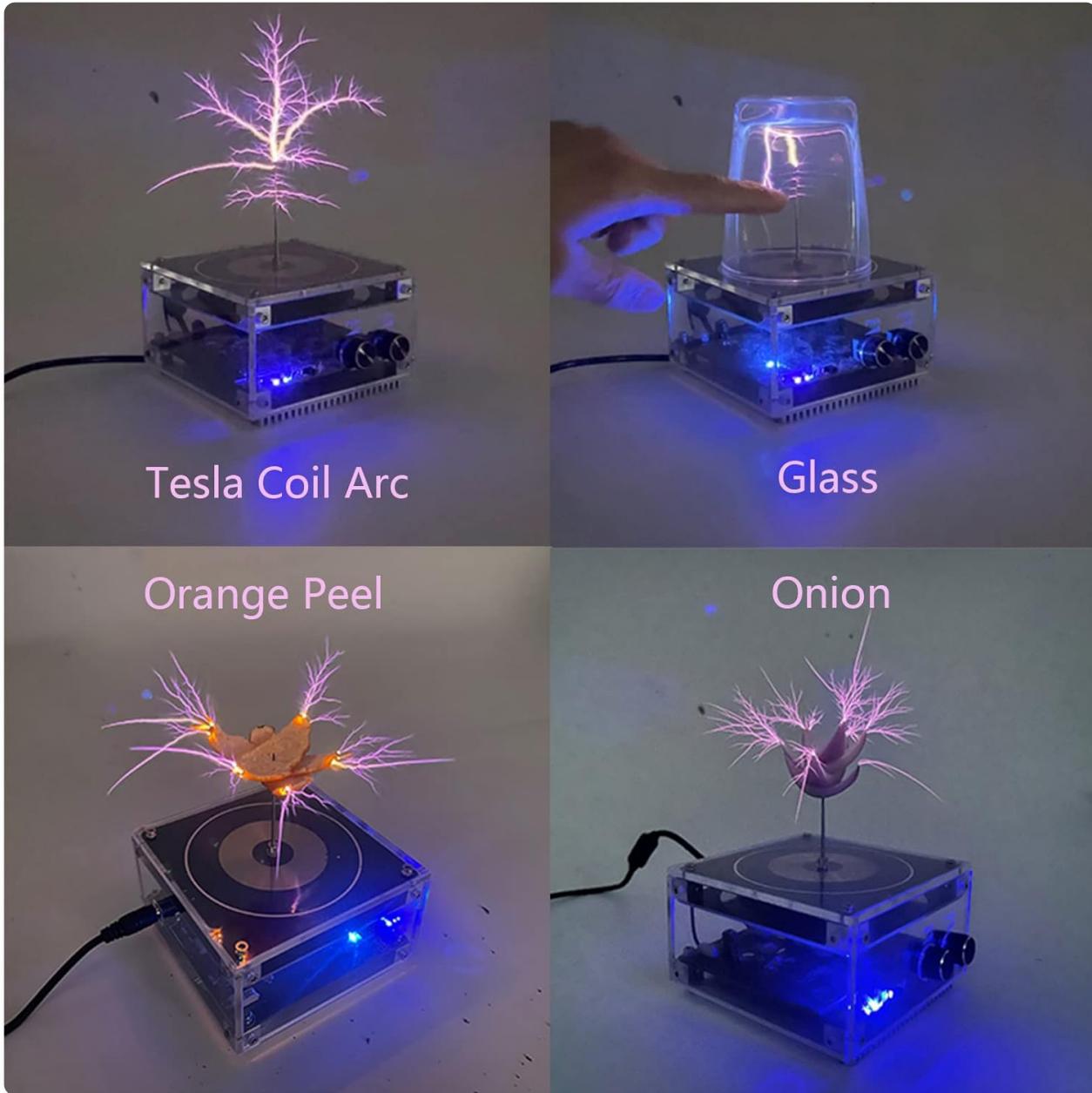


Image: Tesla Coil with discharge needle installed and power connected, ready for operation.

## OPERATING INSTRUCTIONS

### 1. Frequency/Lightning Mode

- Ensure the mode switch is set to the lightning symbol (frequency mode).

- Turn the 'FREQ' knob to adjust the frequency of the arc. Turning it clockwise will increase the frequency and arc length.
- Turn the 'PWR' knob to adjust the power, which affects the intensity of the arc.
- Observe the artificial lightning arc emanating from the discharge needle.

## 2. Music Mode (Bluetooth)

- Switch the mode selector to the music note symbol (music mode).
- On your mobile device, enable Bluetooth and search for the device named "MH-M18" or similar. Pair with the Tesla coil.
- Play square wave music from your device. Square wave music is recommended for optimal performance and sound quality with the Tesla coil.
- Adjust the 'PWR' knob to control the sound quality and arc size. The music mode knob pointer should not exceed the 11 o'clock direction to prevent damage.
- The spark gap arcs will jump in rhythm with the music.



Image: The Musical Tesla Coil demonstrating its ability to produce arcs synchronized with music.

## 3. Touchable Arc

- In either mode, you can safely touch the arc with your finger. The sensation is described as a slight itch or tingling.
- You can also use various objects like glass, orange peel, or onions to interact with the arc, creating interesting visual effects.



Image: Demonstrations of the touchable arc feature using different materials to show interaction with the artificial lightning.

#### 4. Wireless Lighting

- The Tesla coil can wirelessly light up gas tubes and various small bulbs (e.g., neon lamps, LED bulbs).
- Hold the bulb near the discharge needle to observe the wireless power transmission.



Image: A light bulb illuminating wirelessly when brought close to the Tesla coil's discharge point.

## MEDIA DEMONSTRATIONS

### How to Set Frequency and Music

Your browser does not support the video tag.

Video: A detailed guide on adjusting the frequency and setting up music playback on the PEMENOL Musical Tesla Coil.

### Musical Tesla Coil Demonstration

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Video: A demonstration of the Musical Tesla Coil's capabilities, showcasing its arcs and sound.

## MAINTENANCE

- Keep the device clean and free from dust. Use a soft, dry cloth for cleaning.
- Avoid exposing the Tesla coil to moisture or extreme temperatures.

- Store the device in a cool, dry place when not in use.

## TROUBLESHOOTING

- **No Arc/Weak Arc:** Ensure the discharge needle is properly installed. Check power connections. Adjust the 'PWR' and 'FREQ' knobs.
- **No Music/Poor Sound Quality:** Verify Bluetooth connection to "MH-M18". Ensure your audio source is playing square wave music. Adjust the 'PWR' knob.
- **Overheating:** Discontinue use immediately if the device feels excessively hot. Ensure adequate ventilation and avoid prolonged operation without music in music mode.

## SPECIFICATIONS

Feature	Detail
Product Dimensions	4.17 x 4.17 x 2.4 inches
Item Weight	2 pounds
Item Model Number	GY19269
Manufacturer Recommended Age	12 years and up
Manufacturer	PEMENOL

## WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the product packaging or contact PEMENOL customer service directly. Contact details are typically provided with your purchase documentation.