



H. 6-volt battery pack connection; powers accessories. 6-volt pack takes 4, AA batteries. Never connect a 9-volt battery here, or you will damage accessories.

H. 9-volt battery connection, powers electrolysis unit. Plug in Copperhead cable here.

F. Accessory connection plug (Thunder & Thrasher)

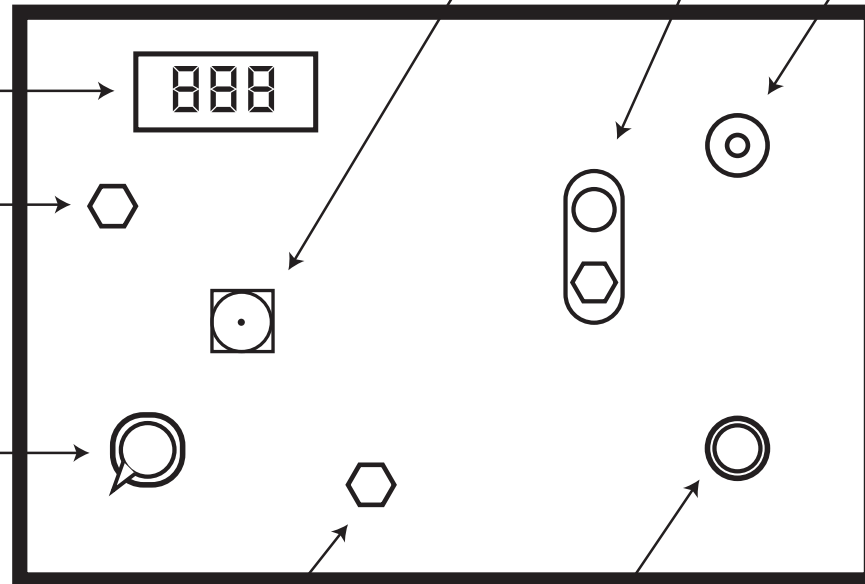
A. Volt meter

B. Catalyst lead connection

C. On/off + voltage adjustment for electrolysis process

D. Coin/artifact lead connection

E. On/off push button to power accessories





UGLY BOX 'TNT' User Instructions

INTRODUCTION – THE UGLY BOX IS DESIGNED TO STABILIZE DUG COINS, METALLIC ARTIFACTS, AND JEWELRY, BY SLOWING (OR STOPPING) FUTURE DEGRADATION. IN ADDITION, THE PROCESS WILL CLEAN THE TREATED OBJECT, HELPING TO REMOVING OXIDATION, ENCRUSTATIONS, AND OTHER CONTAMINATING MATERIALS.

VALUABLE OBJECTS SHOULD BE PROFESSIONALLY CLEANED AND CONSERVED.

SOME BASICS: Warnings:

1. The Ugly Box electrolysis process produces very low levels and small quantities of hydrogen gas. Use in a ventilated area.
2. Never rig the Ugly Box to a wall socket. This can damage the device AND there is a risk of fire.
3. Never use a 9-volt battery on the 'Accessory' side of the Ugly Box (diagram H). ONLY use the included 6-volt pack (4 AA batteries). The higher voltage will damage the accessories (Thunder / Thrasher).

Guidance:

1. Nickels (pure nickel and nickel alloys) should not be treated with the Ugly box; as there is a risk of discoloration and other damage.
2. Copper objects - including pennies - are treated a little different. Start off the process with leads at opposite ends of the tank and run the unit for short durations.
3. The Thunder accessory is designed to be submerged in the tank and is waterproof. It can sit on the bottom of the tank and/or physically touch the treated object for greatest effect. The Thunder should be powered on for short bursts - 5 to 10 seconds at a time, 20 seconds MAX. Multiple Thunder activations can be used per session.
4. The Thrasher accessory is NOT designed to be submerged. The object being treated should already be 'cooked' with the Ugly Box and should be wet. Thrasher can be used in-between electrolysis sessions. Do not attempt to clean the item in one sitting. It is designed to remove heavy layers of degrade in layers and should be employed in multiple applications.

Setup & Use:

1. You will need the following:
 - a. Ugly Box kit
 - b. Tank, large enough to fully submerge object. Ideally plastic (never metal); small Tupperware containers work great. The smaller the better.
 - c. 9-volt battery (rectangle battery) to power the electrolysis process
 - d. 4, AA batteries to power the accessories
2. Place clean tap water in the tank, enough to cover the object being treated.
3. Add brine; approximately a teaspoon / cup of water (you don't need much) and stir.
4. Attach a 9-volt battery (diagram I.)
5. There are two colored leads included in the kit, with alligator clips on each end. Its does not matter which color lead is used for any specific part of the process. We recommend using one specific lead always for the catylyst side of the circuit.
6. Attach one end of the first lead to the object being treated – make sure it is touching the base metal surface. Attach the other end of the first lead to the node labeled COIN. (diagram D). Submerge the object in the brine tank.
7. Attach one end of the second lead to the carbon catalyst rod (included). Attach the other end to the node labeled CATALYST (diagram B). Submerge the catalyst rod in the brine tank. The user should re-use the same lead over and over for the catalyst side of the electrolysis unit. This lead will break down and periodically needs to be replaced.

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8. The New Ugly Box TNT comes with everything you need for standard 9 volt operation. Optional input cables and power packs up to 18-24V are available. Attach your 9V battery to the supplied input power cable and plug the cable into the EXT power Input H.

9. Turn ON the Ugly Box by turning the Voltage Regulator knob to the right (diagram C)

10. You will know the device is working if you see a reading on the voltmeter (diagram A) increase from 0 to the max. available from your battery as you turn the knob.

11. Small bubbles may collect on the object being treated, particularly toward the end of the electrolysis process.

12. The correct amount of time needed to treat a specific object will depend on many different factors. Typically, an object may require 10-60 minutes to be stabilized and cleaned. Never keep an object in the unit for more than an hour at a time.

13. Use the Thunder accessory to speed the process and break up heavy debris. The Thunder is designed to be submerged in the brine solution. You can have the Thunder rest on the bottom of the tank, and/or touch the object. Should only be used in short bursts.

14. The Thrasher accessory is NOT designed to be submerged. It should be used AFTER the object is stabilized with the Ugly Box. The object should be wet when using the Thrasher. If you use up all the steel wool, there is additional steel wool stored in the Thrasher unit. You can also replenish the unit with 000 or 0000 grit product available at any hardware store.

15. Depending on the object, level of decay or debris, and other factors; multiple treatments may be needed to achieve desired results.

16. Once the Ugly Box treatment is completed, it might be helpful to rub some toothpaste on the coin (or object) for a final quick polish (will act similar to jeweler's rouge). Then rinse.

17. Buffing the coin (or other object) with a soft cloth may remove some of the detail, and is not recommended.

18. VISIT **DetectingAdventure.com** for links to helpful videos, replenishment products, and to ask questions.

INCLUDED:

- Ugly Box unit
- Brine powder (mix approx. 1 tsp per cup of water)
- 2 leads, with alligator clips
- 6-volt batter pack, for accessories
- Carbon catalyst rod
- Copperhead electrolysis power input cable
- THUNDER accessory
- THRASHER accessory (with extra steel wool in handle)

YOU WILL ALSO NEED:

- Tank (small Tupperware or similar, not metal)
- 1, 9 volt (rectangular) battery
- 4, AA batteries
- Water, enough to cover coin/object

**Ugly Box has a
1-Year Limited Warranty.
Proof of purchase required.**

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