

The ET250 Electrified Turntable allows you to run the electrical connection for your dollhouse through the Turntable base so the lead-in wire won't tangle and pull out as the house is rotated.

Supplies you will need:

- Short piece of wire (24 to 28 guage) like "speaker wire".
- Soldering supplies or electrically conductive glue like "Wire Glue".
- EL-66 electrification tool for making eyelet connections to the house wiring.
- Power supply sized for the electrical needs of the house.

Build and electrify your dollhouse following accepted practices (visit www.realgoodtoys.com/instructions/quickstart guide or the wiring section of the dhubuilder.com website).

This instruction uses a hollow foundation for clearance and space to make connections to the Turntable. If you do not have a foundation, use 1/4" or thicker stripwood to box in the floor of the dollhouse where the Turntable will attach.

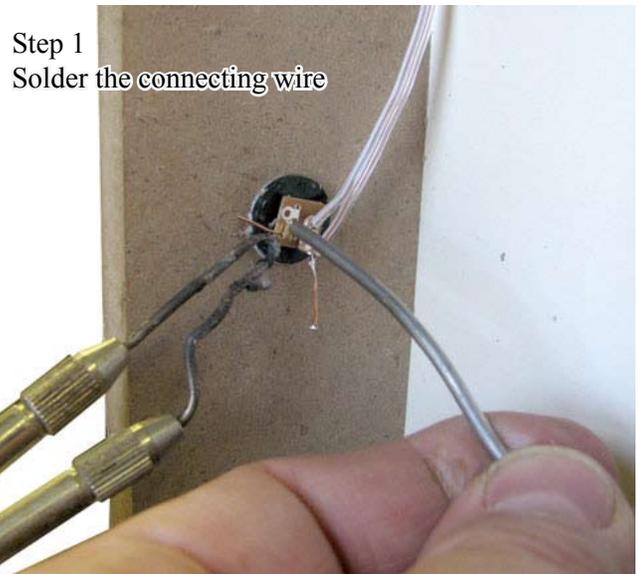
□ 1. Solder a length of speaker wire or other suitable wire to the electrical connections on the top of the Turntable; connect the copper (unmarked) conductor to the center tap and the striped conductor to the outside tap.

- Use a "marked" wire that makes it possible to keep the two conductors separate from each other. This discipline is not necessary with many dollhouse wiring projects, but it takes only a little attention and no extra time, and it does make it possible to always connect the "+" to the "+", and the "-" to the "-", which is good wiring practice.
- Use a piece of wire long enough to reach from the center of the dollhouse to the end where the electrical connection will be made. If connecting to a baserun above the base floor, add at least 6".

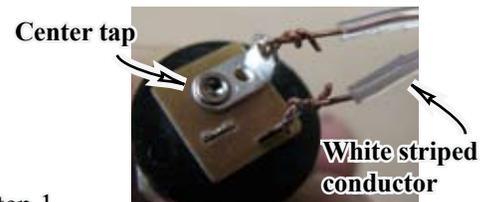
Alternate for #1: Twist the wires to the taps and smear electrically conductive glue onto the connection. Make certain that the glue does not go from one tap to the other and that the conductors do not touch each other. Staple or tape the wire securely so there will not be any flex where the wire attaches to the connector... electrically conductive glue *does not have any* mechanical strength at all.

- You can make your own electrically conductive glue by mixing silicone glue (like "Goop" or "E-6000") with powdered graphite (lock lubricant) 50/50 (or more graphite if it can be mixed in). Do not use white glue for this task.

□ 2. Set the house on the turntable, centered side-to-side and front-to-back. Adjust the position if necessary so the house rotates smoothly and sits level on the table. Slide the house to the edge of the table and mark the position of the turntable on the foundations.



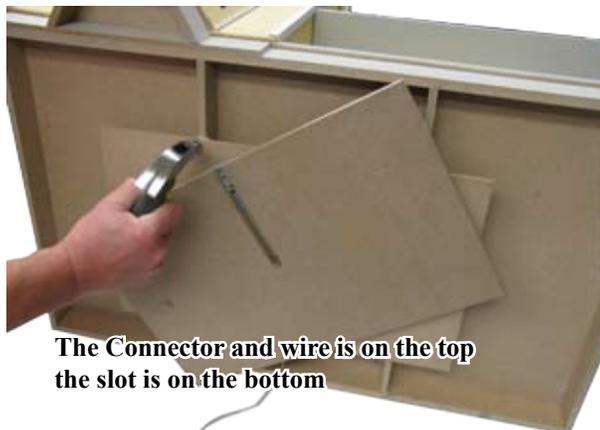
Step 1
Solder the connecting wire



Alternate for Step 1
Twist the wires to the connector
Apply electrically conductive glue



Connector

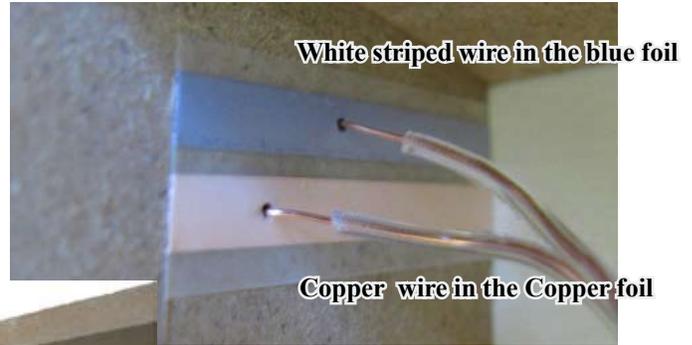


The Connector and wire is on the top
the slot is on the bottom

Lay the house on its back and, with a helper or double sided tape, hold the turntable at the marks for attaching the turntable to the house. Plan the pathway for the wire between the Connector and the house wiring... foundations with crosspieces in the middle may need holes or notches for the wire (do not pinch the wire between the foundation and the turntable). Drill and screw, or nail the Turntable to the Foundation.

□3. Connect the wire to the house wiring:

If the tapewire comes into the “cellar”, punch a hole in each foil conductor of the tapewire. Separate the conductors of the solid wire, and strip the ends 1/4”. Poke the end of the copper wire into the hole in the copper foil. Insert an eyelet in the hole to connect the solid wire to the tapewire. Insert the striped conductor of the solid wire in the hole in the blue tapewire. Insert an eyelet.



EL-66 with an eyelet ready



Push or pound the eyelet into the hole



If the tapewire does not come into the “cellar”, you must establish a pathway to get the solid wire up to the tapewire on the 1st floor. For most houses, two holes are drilled tight against the inside of the wall (or even in a bit of a groove in the wall so the thickness of the wire doesn't stick out the full amount). These holes will hit the thickness of the foundation in most houses, so some carving inside the foundation will be necessary to expose the holes. Separate and strip the wires enough to run only the bare wire thru the holes and up the inside walls. Feed the wires thru the holes, punch holes in the Tapewire, and secure the solid wire to the Tapewire as shown above.



Drill thru the floor

□4. Insert the 90° Plug into the receptacle in the slot; hold it there with duct tape or an equivalent super tape. Attach the wire end of the Plug to the screws on the Power Supply (if you have LEDs in the circuit and they don't light up, switch the wires at the Power Supply). Plug in the Power Supply.

Step 4
Connect to the Power Supply



Carve the foundation to find the holes