



## ***Yankee Flipper Power Stick Replacement***

### **The Power Stick underwent two modifications in 2008**

*The activation switch was changed from a vertical to a horizontal position in the housing. This change will not affect the performance of the new Power Stick and will work in your unit. The activation switch on the Power Stick will make contact with the black switch bumper when the unit is turned "on" and the perch ring is depressed when in use.*

*The silver pin inside the input jack located in the top of the Power Stick for charging purposes, was changed to a larger diameter. Please contact Droll Yankees if your current AC/DC Adapter (charger) will not fit into the input jack of your new Power Stick.*

### **Removal of the old Power Stick**

Please go to: <http://drollyankees.com/video/yankee-flipper-power-stick-replacement/> to watch a short video on replacing the new Power Stick.

1. Turn the black knob on the base assembly to the "off" position.
2. Disengage the entire base of the feeder by placing the bottom of the feeder in the palm of your hand and inserting your fingers upward between the spokes of the perch ring. Grasp around the base assembly firmly with your fingertips and twist counter clockwise (viewed from the bottom), approximately ½". You will feel a distinct click, and then lower the base which will separate from the feeding port.
3. Use a 7/16" or 11mm socket, nut driver, or wrench to remove the nut on the bottom of the base, below the perch ring.
4. Remove the lock washer, hub, perch ring, and the green/clear plastic friction disc.
5. The Power Stick can now be removed from the base assembly by pulling upward. If the switch bumper separates from the base assembly, it will be necessary to glue it back into place.

A black switch bumper has been included with the new Power Stick. Replace the black switch bumper on the base assembly if it is worn, indented, or punctured. Damage to the top of the switch bumper can only be viewed when the Power Stick is removed from the base assembly.

### **Installation of the Switch Bumper**

1. Remove the damaged switch bumper. Remove the old glue before installing the new switch bumper.
2. Apply a small amount of Super Glue®, Crazy Glue®, etc. on the edges of the slot and slide the black switch bumper in place. The top of the black switch bumper should be flush with the top rim of the base assembly when installed correctly. Allow the glue to dry completely before installing the Power Stick.

### **Installation of the new Power Stick**

1. Hold the base assembly upright and position the spring inside the center cavity at the bottom of the base assembly.
2. Align the black switch bumper under the activation switch on the Power Stick and insert the Power Stick into the base assembly.
3. Invert the base assembly with the Power Stick. Place the friction disk, smooth side facing the bottom of the base assembly, and the perch ring onto the drive shaft.
4. Line up one of the spokes on the perch ring with the flat side on the drive shaft which is located directly beneath the threads. Push down on the perch ring and hold, as this will depress the spring, extending the drive shaft of the Power Stick for installation of the next three components.
5. With the four slots in the hub facing down towards the perch ring, locate the flat side in the center of the hub. Align the flat side in the center of the hub with the flat side on the drive shaft, and push down on the hub locking it in place.
6. Install the lock washer, and tighten the nut by hand. Use a 7/16" or 11mm socket, nut driver, or wrench to finish tightening. Compress lock washer + 1/8 turn or torque to 10-15 in/lbs. The nut is installed correctly when the bottom of the drive shaft is flush with the nut. **Do not overtighten the nut.**
7. Charge the new Power Stick for at least 14 hours, but not more than 24 hours. The Instruction Manual for the Yankee Flipper can be located on our website under the "Support" tab.

## Important Information

- When turning the black knob on the base assembly to the “on” or “off” position, do not come in contact with the perch ring. If one of the four perch ring spokes is obstructing access to the black knob, the perch ring can be rotated by hand with the black knob in the “off” position or tap the perch ring with your finger when in the “on” position.
- The Power Stick, which contains the batteries, motor, and gearbox, is shipped with a slight charge in the batteries for testing purposes and requires charging before use.
- Insert the AC/DC Adapter (charger) output plug into the input jack located at the top of the Power Stick. Never loop the cord through the perch ring.
- Charge the batteries in the Power Stick for a minimum of 14 hours, but not more than 24 hours. Repeated undercharging can result in a battery condition known as “memory” to occur. Overcharging can damage the batteries, resulting in shortened battery life.
- Recharge the batteries only when they fail to produce sufficient power to spin the perch ring and remove the squirrels.
- Place the base in a location that is out of reach of children and where it will not be dropped or knocked over. The base should be charged indoors and at room temperature.
- Unplug the AC/DC Adapter (charger) from the electrical outlet and store in a safe place when charging is complete.
- Hang your feeder on a rigid hook and secure the feeder from falls.

## Troubleshooting

### The perch ring fails to activate

- Make sure the black knob on the base assembly is in the “on” position.
- Check the black switch bumper on the base assembly. Has this become worn, indented, punctured or is it missing?
- The hole in center of the hub should have a flat side and not be perfectly round.

### The feeder needs to be recharged frequently

- Raccoons, deer, bears or other large animals may be attempting to eat at the feeder. You may need to bring the feeder in at night until they go elsewhere for food.
- If you have many squirrels in your yard, you may need to recharge the feeder more frequently at first. However, the squirrels should quickly give up and move on to food sources that require less effort.
- Frequent unnecessary recharging or under charging can result in a condition known as “memory” to occur. It is possible to correct this condition by carefully following the charging instructions, but it may take multiple charge/discharge cycles to bring the batteries back to capacity.

### The perch ring continues to spin once activated

- The base has been disassembled for part replacement without placing the spring back into the center cavity of the base assembly.
- The black knob on the base assembly turns completely around and does not lock into the on/off positions.
- Remove the Power Stick from the base assembly and manually check the activation switch on the Power Stick to see if it is possibly sticking.

### Unable to remove the hub

- Place penetrating fluid/penetrating oil where the hub meets the drive shaft and try removal of the hub again in 1 hour. If the hub is still difficult to remove, hold the base upside down while firmly holding the perch ring and use a hammer to tap the end of the drive shaft of the Power Stick.

A light coat of White Lithium Grease may be used on the drive shaft before installation of the components for removal of the hub in the future.

### The base assembly will not lock into place underneath the port

- Metal locking tabs: Tighten the 3 Phillips screws under the locking tabs or the locking tabs may require realignment by pushing outward on any one of the locking tabs.
- Plastic locking tabs: The older base assembly had three plastic locking tabs. Please contact Droll Yankees if any of the locking tabs have broken for a replacement base assembly with metal locking tabs.

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