

Upper Hub Replacement

ALWAYS DISCONNECT ANY ELECTRICAL APPLIANCE BEFORE ATTEMPTING ANY REPAIRS

1. Remove the fabric from the frame. Place the umbrella frame on its side. Tie a rope around the ribs near the damaged upper hub to help keep the ribs together while performing the replacement.
2. Remove the electric box cover. Make a note of the wire layout inside the old hub to reference when installing the new hub. Disconnect all the **RED** wires from the outside ring and the **WHITE** wires from the inside ring. Save the screws and two (2) electric rings for the new hub.
3. Remove all the mounting bolts from the old hub so you can separate the two (2) sections of the old hub. The rib pins may fall out when you open the old hub, so be sure to collect and save those to use for the new hub. Open and remove the ribs from the old hub. Use caution when pulling the wires from the old hub.
4. Untie the rope at the lower hub. Remove the two (2) screws, holding the bottom section of the old upper hub to the center pole. Slide the top and bottom section of the old upper hub down the center pole and remove it.
5. Slide the two (2) sections of the new upper hub up the center pole to the ribs. Reattach the two (2) screws, securing the bottom section of the new hub to the center pole. Place the ribs with the rib pins into the slots on the bottom section of the new hub. Make sure the rib pins rest firmly in the slots of the new hub.
6. Carefully insert the wires through the top section of the new hub.
7. Reattach the top section of the new hub to the bottom section. Use caution to not damage any wires when attaching the top section. Tighten all mounting bolts.
8. Place the two (2) electrical rings onto the new hub. Connect all the **RED** wires to the outside ring and all the **WHITE** wires to the inside ring. Make sure all the wire connections are connected to the proper terminal and tightened. Reattach the cover of the electric box.
9. Return the umbrella frame to an upright position. Open and close the umbrella slowly to test the ribs. Reconnect the transformer and test the lights.

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