

# Instructions for Replacing a Rib

**WARNING: unplug any electrical appliance before attempting any repair.**

## **STEP 1**

Remove the fabric cover from the frame. Lay the umbrella on it side over a workbench or table, with the damaged rib facing upwards.

## **STEP 2 (for lighted umbrellas only)**

Remove the electric box cover from the upper hub. Locate the two wires from the damaged rib, then disconnect the WHITE wire from the outside ring and the RED wire from the inside ring.

## **STEP 3**

Locate and remove one (1) hub bolt on each side of the damaged rib from the upper hub. Insert a screwdriver between the two sections of the upper hub and pry open the hub enough to remove only the damaged rib and the rib pin from the hub. Note: it may be necessary to loosen further bolts in order to pry open the hub. Use caution when pulling any electric wires thru the hub.

## **STEP 4**

Separate the damaged rib from the return arm by removing the two screws on the rib connector.

## **STEP 5**

If new rib has lights, then insert the wires from the new rib thru the upper hub and into the electric box. Pry open the two sections of the hub and insert the rib w/rib pin. Make sure the rib pin rests in the slot before closing the upper hub. Re-tighten all the hub bolts in the hub.

## **STEP 6**

Attach the new rib to the return arm at the rib connector using the two screws.

## **STEP 7 (for lighted umbrellas only)**

Connect the WHITE wire to the outside ring and the RED wire to the inside ring. Place the cover on the electric box and secure.

## **STEP 8**

Place the umbrella in an upright position. Now, fully open and close the umbrella to test the ribs. (For lighted umbrellas, plug in the transformer and check the lights while the umbrella is fully opened). If satisfied, place the fabric cover on the umbrella frame. You have successfully completed the repair.

*For further assistance contact Service @ Wandatech.com*