

Rib Repair

ALWAYS DISCONNECT ANY ELECTRICAL APPLIANCE BEFORE ATTEMPTING ANY REPAIRS



1A



1B

STEP 1: PREP

- Tools needed: (1) Phillips screwdriver, (1) flat screwdriver, 3' of fishing line or string [1A]
- Lay the umbrella frame on its side with the damaged rib facing up [1B]



2

STEP 2

- Remove the damaged rib from the return arm by removing the two (2) 4mm x 12mm screws from the rib connector [2]



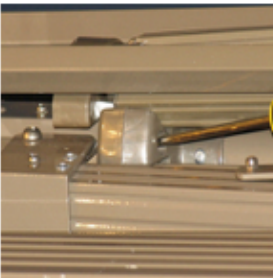
3A



3B

STEP 3

- Remove the electrical box from the upper center hub [3A]
- Locate the two (2) wires from the damaged rib. Disconnect the **red** wire from the outside ring and the **white** wire from the inside ring [3B]
- Attach a 3' piece of fishing line or string to the two (2) wires before removing the rib.



4A



4B

STEP 4

- Remove one (1) of the hub bolts on each side of the damaged rib [4A]
- Insert a flat screwdriver between the two (2) sections of the hub and pry it open enough to remove the damaged rib and pin - **USE CAUTION with the electrical wires** [4B]



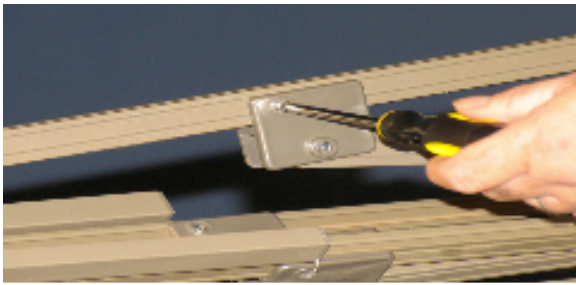
5A



5B

STEP 5

- Attach the fishing line/string to the new wires. Pull the wires through the hub and into the electrical box [5A]
- Pry open the hub and insert the new rib and pin into the hub. Verify that the rib pin is set firmly into the slot. Re-tighten all the hub bolts [5B]



6

STEP 6

- Connect the new rib to the return arm by screwing the two (2) 4mm x 12mm screws into the rib connector [6]



7A

7B

STEP 7

- Connect the **red** wire to the outside ring and the **white** wire to the inside ring [7A]
- Place the cover on the electrical box and secure [7B]

STEP 8

- Place the umbrella into its base. Slowly open and close the umbrella to test the rib
- Plug the transformer in and test the lights while the canopy is fully opened

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