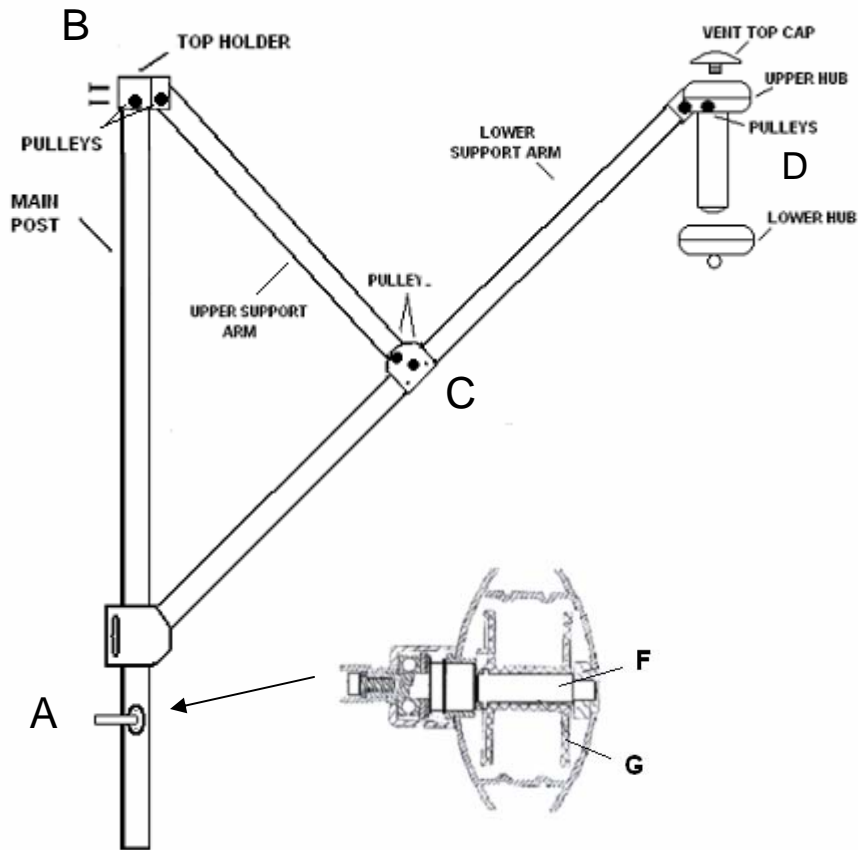


# Rope Repair



## Step 1

Remove the fabric and lay the umbrella on its side with the crank handle facing up.

## Step 2 (for lighted umbrella)

Remove the light cover and light bulb. Remove the light bulb holder and light cover holder. (D)

## Step 3

Pull the old rope out a little and untie the knot at the end of the rope. (D)  
Connect the old and new rope together by heating the two ropes together or using a piece of duct tape. Note: **DO NOT** tie a knot in order to splice the ropes.

## **Step 4**

Use the old rope to pull the new rope thru each section of the frame (C&D), until you reach the top holder (B). Note: Be careful to go around the correct side of the pulleys (always on the outside). Return to the lower hub (D) and disconnect the old rope and discard. Tie a knot at the end of the new rope. Re-attach the component parts at the lower hub.

## **Step 5**

Remove the cap at the top holder. (B) Pull the new rope out the top holder.

## **Step 6**

Remove the two screws on the crank cover (A). Insert a screw driver thru the crank axle sleeve on the back side of the post and push the crank shaft out. Note: be careful to keep the crank assembly together when removing it. (refer to Crank Assembly Repair)

## **Step 7 (for lighted umbrella)**

Remove the power switch and power socket and pull the wires out of the way to allow the rope wheel to slide out the bottom. Use a long heavy gauge wire to reach up the post and pull the rope wheel down and out. Untie the old rope from the wheel and discard the old rope.

## **Step 8**

Insert a long heavy gauge wire into the bottom of the post and out the top. Tape the new rope to the end of the wire and pull the rope down to the bottom. Tie the new rope to the wheel. Use the wire to push the wheel back up the post into position. Make sure the axle sleeve is in position.

## **Step 9**

Slide the complete crank assembly back into the post, thru the hole and into the axle sleeve on the back side of the post. Re- insert the two screws into the crank cover and tighten.

## **Step 10**

Re-attach the power switch and power socket to the post. Attach the cap at the top holder.

## **Step 11**

Check to make sure the rope is properly positioned on all the pulleys. Place the umbrella in an upright position and check the rope and the lights.