

AKZ RIB REPLACEMENT INSTRUCTIONS

REQUIRED ITEMS: Phillips screwdriver, flathead screwdriver, ratchet

NOTE: Follow these instructions if only the rib is damaged. If the notch, runner, or rib ends are damaged, those parts need to be replaced as well.

Remove the canopy from the cantilever prior to repair. Read these instructions completely before attempting replacement.

STEP 1 – Identify the broken rib

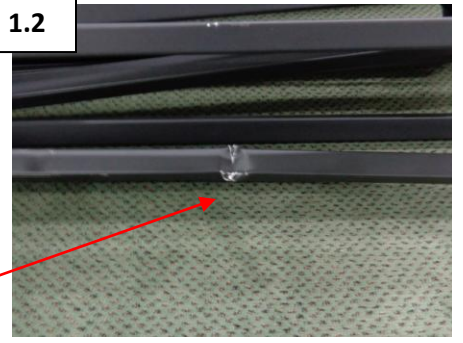
1.1



Remove the AKZ from the rotating hub by using the hex wrench to remove the main frame bolts at the bottom of the main frame stand. Lift the AKZ frame off the rotating hub and place on a soft, flat surface.

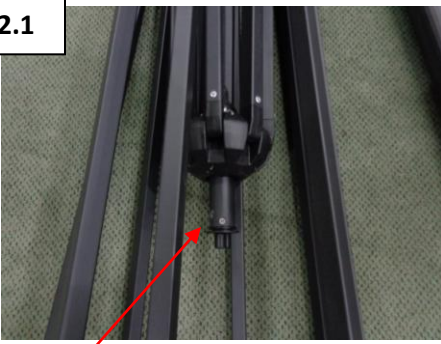
Identify the broken rib.

1.2



STEP 2 – Remove the canopy structure from the hinge

2.1



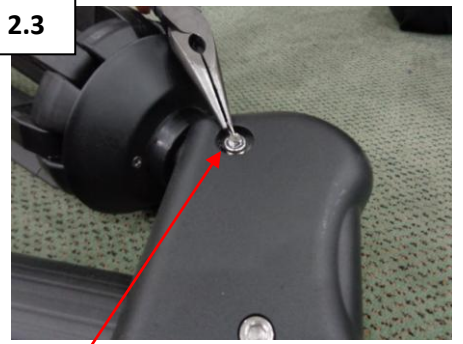
Unscrew the Vega light adapter from the runner. Use the screwdriver to remove the adapter screws. Set screws and adapter aside.

2.2



Remove the cord lock and spring from the runner. It may be necessary to open the ribs to create slack in the cord to do so. Pull the spring from the cord lock and remove both from the cord.

2.3



Remove the cotter pin from the bolt at the hinge.

2.4



Use the ratchet to remove the nut from the hinge. Then remove the bolt.

2.5



Pull the canopy structure out from the hinge. Set the round plastic stabilizers aside.

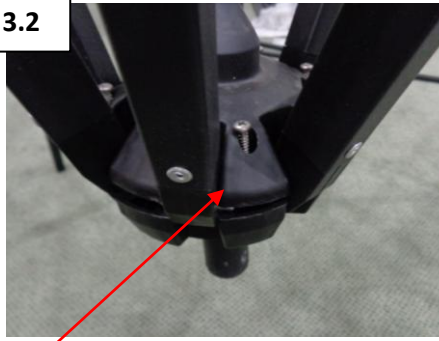
STEP 3 – Replace rib at runner

3.1



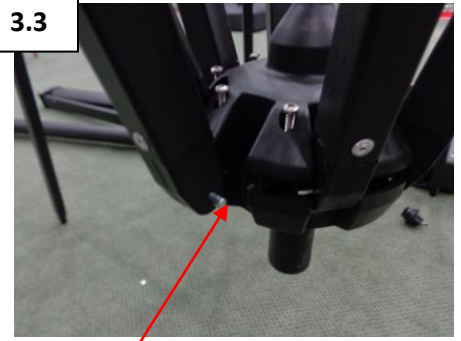
Now that the canopy structure is free, carefully stand it up as shown in fig. 3.1.

3.2



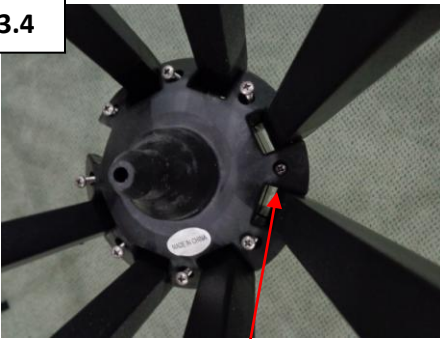
Using the screwdriver, carefully unscrew all the screws from the runner.
Be careful not to bump into the ribs or the runner, as this would dislodge the runner and cause the ribs to collapse and rib pins to scatter.
It is not necessary to remove the screws, just loosen them completely.

3.3



Carefully remove the broken rib and rib pin from the gap in the runner.
Again, use caution so as not to dislodge other ribs from the runner.

3.4



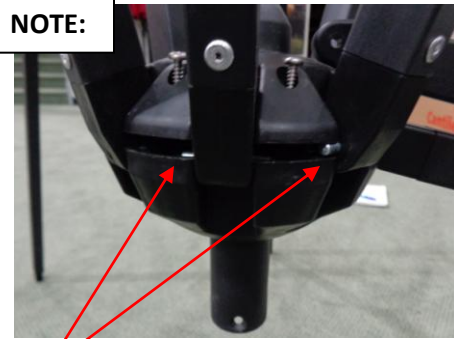
Once the rib is removed, tighten one screw opposite the removed rib.
This will help hold the other ribs in place.

3.5



Insert the rib pin through rib end of the new rib. This should be done at the strut (the shorter end of the rib.)
Now insert the rib end and rib pin through the gap in the runner. Make certain the rib pin is in place inside the runner.
Screw the runner back into place.
The new rib should now be hanging from the runner and the broken rib should be hanging from the notch.

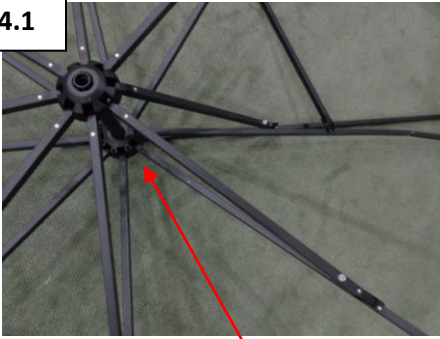
NOTE:



If the runner cannot be screwed back together, it is because some of the rib pins have been dislodged.
Use the flathead screwdriver to set them back in place in the runner. It may be necessary to loosen the runner screws to do so.
Once all the rib pins are set in place, screw the runner back together.
Ensure that the ribs are firmly in place in the runner.

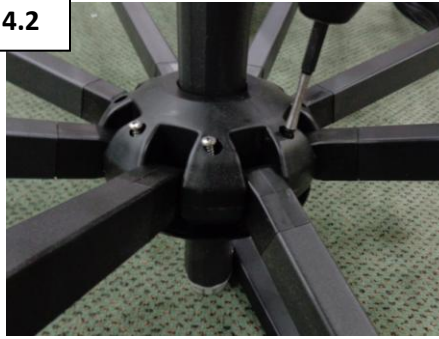
STEP 4 – Replace rib at notch

4.1



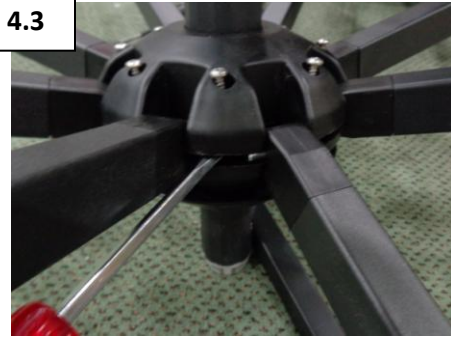
Carefully place the canopy structure upside down. This will allow access to the screws at the notch. The notch will be touching the ground with the screws facing up for easy access.

4.2



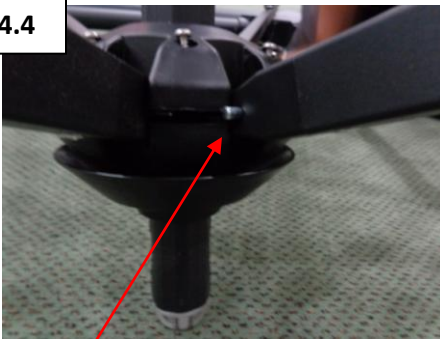
Unscrew all the screws from the notch. Once again, be careful not to bump or dislodge any of the ribs or rib pins. It is not necessary to remove the screws, just loosen them completely.

4.3



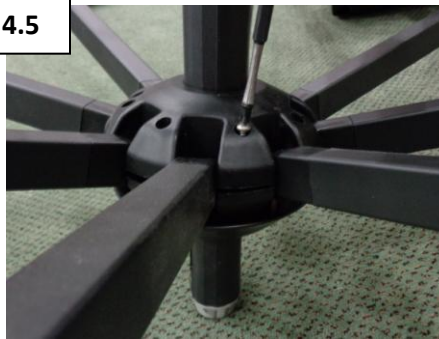
Carefully separate the top half of the notch from the bottom half. If necessary, use a flathead screwdriver to separate both halves. Be careful not to dislodge other ribs or rib pins.

4.4



Remove the broken rib from the notch. Discard the broken rib. Remove it carefully from the notch, so as not to disturb the other ribs.

4.5



Insert the rib pin through the rib end of the new rib. This should be done at the longer end of the rib. Now insert the rib end and rib pin through the gap in the notch. Make certain the rib pin is in place inside the notch. Screw the notch back into place.

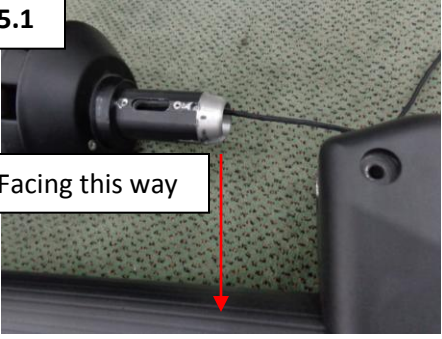
NOTE:

If the notch cannot be screwed back together, it is because some of the rib pins have been dislodged. Use the screwdriver to set them back in place in the notch. It may be necessary to loosen the notch screws to do so.

Once all the rib pins are set in place, screw the runner back together. Ensure that the ribs are firmly in place in the runner.

STEP 5 – Reattach canopy structure to hinge


5.1



Facing this way

Close the canopy structure and gently lay it on its side. Make certain the u-shaped cutout at the top of the notch is facing the main frame stand. Guide the canopy cord through the top of the notch.

5.2



Make sure the canopy cord is threaded through the pulley at the top of the notch. The cord should go on the side of the pulley opposite the u-shaped cutout.

5.3



Replace the plastic stabilizers on the inside of the hinge, the curved sides facing the notch. Reinsert the notch into the hinge.

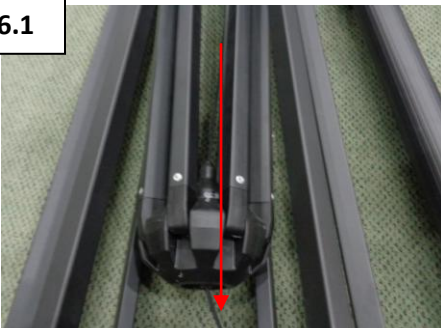
5.4



Reinsert the bolt through the hinge and secure it in place with the nut. Tighten the nut with the ratchet and then replace the cotter pin.


STEP 6 – Reassemble cord lock & light adapter

6.1



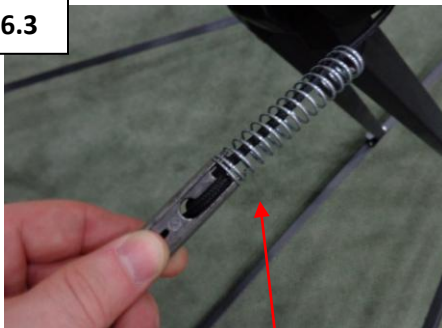
Thread the cord through the runner.

6.2



Insert cord through the spring and the center of the cord lock. Wrap the cord around the cord lock.

6.3



Place the spring firmly onto the cord lock's notch.

6.3



Lower the light adapter and screw its cap back into place.

REPLACEMENT COMPLETE – TEST TO ENSURE CORRECT FUNCTION

NOTE: If there is too much slack in the cord, untie the cord lock beneath the hub. Re-tie the knot higher up the cord. Then reassemble cord lock.

If there is not enough slack in the cord, untie the cord lock beneath the hub. Re-tie the knot lower down the cord. Then reassemble the cord lock.