

### PRODUCT MODELS

- C-EP Cover
- Legend Cover

### PURPOSE OF THE PROCEDURE

This procedure should be performed when the sleeves seem to interfere with the operation of the cover and/or when the sleeves need to be aligned with each other on a C-EP or Legend swim spa cover.

### PREPARATION

Gather the required tools, as seen in the table below.

#### TOOLS REQUIRED

Phillips screwdriver	Robertson screwdriver
7/16" socket wrench & spanner	36" level

*Version française à la page 4.*

### ⚠ CAUTION

Do not use power tools, some parts are fragile and may break under too much torque.

### ⚠ WARNING

This procedure must be performed by a certified Covana installer.

Keep the key out of the key switch socket at all times. The certified Covana installer must keep control of the key during the repair procedure. Derogation from this directive could cause serious injury or damage the cover.

### TESTING THE COVER

#### NOTE

Before executing this procedure, it is suggested to test the cover to assess if:

- 1- The middle sleeves slide without interfering with the inner or outer sleeves.
- 2- The inner sleeves get caught on the middle tube of the jack (you will know it is caught if the inner sleeve doesn't go down into the outer sleeve more than about 1").

If so, it will help determine under what conditions it happens.

- 1) Ensure there are no objects directly above or in the path of the cover opening while performing this test.
- 2) Use the key switch to raise the cover by approximately 8". Make sure it is raised evenly (i.e., there are no corners higher than the others).
- 3) Lower the cover again and ensure the seal of the cover is evenly seated all around the spa perimeter.
- 4) Raise the cover halfway up.
- 5) Check if the middle sleeves are free by sliding them up and down by hand. Test if the middle sleeve slides without scratching or interfering with the inner or outer sleeve. If all seems to function properly, lower the cover and check if the sleeves are level using a 36" level on both sides of the sleeves.
- 6) Raise the cover all the way up (or as high as possible without objects obstructing the cover) and pay attention to any abnormal sound (metal grinding or knocking). If so, stop any movement.
- 7) Lower the cover and ensure it stops at the zero position and ensure the seal of the cover is evenly seated all around the spa perimeter.
- 8) If the sleeves were found not to be level and there were no abnormal sounds heard, level the sleeves following Section B - Fixing outer sleeve misalignment.

### STEP BY STEP PROCEDURE

#### A- JACK INSPECTION

#### NOTE

To simplify the images, the spa and cover have been hidden.

- 1) Extend post until at least 6 inches of the middle sleeve is exposed.

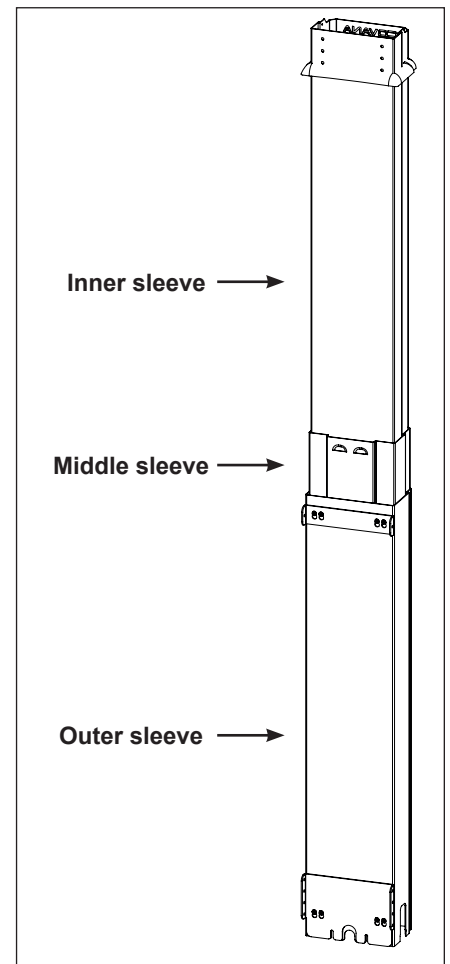


IMAGE 1

- 2) Pull the top of the middle sleeve by putting your fingers through the top, between the middle and inner sleeve, while pushing with the palm of your hand on the inner sleeve to release its stopper (see image 2).

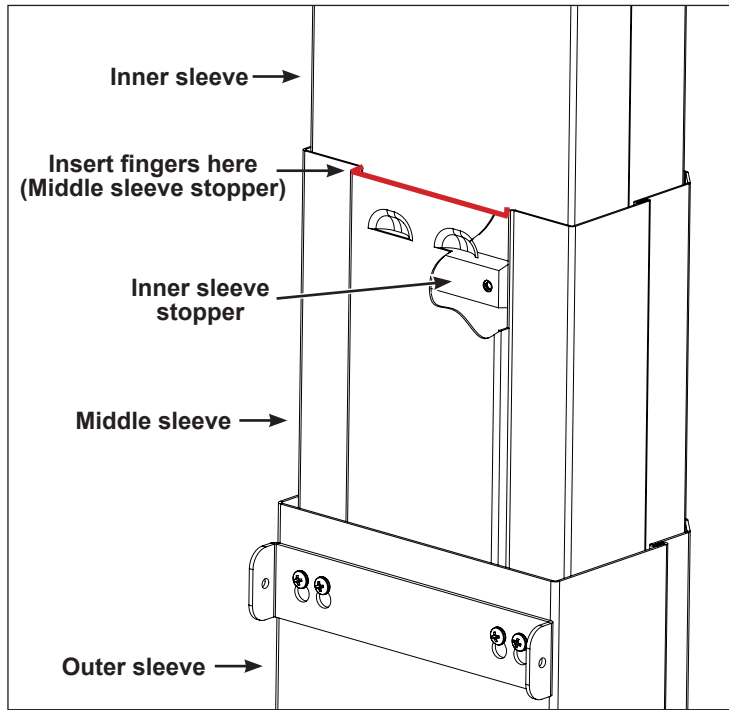


IMAGE 2

- 3) Slide the middle sleeve down into the outer sleeve.
- 4) If you noted earlier that the inner sleeve got caught on the middle tube of the jack (see image 3) (this may be due to the over-extension of the posts and/or misalignment of the sleeves), proceed with the following: After sliding the middle sleeve down into the outer sleeve, lift the cover to its maximum height, ensure the middle chain is still attached to the jack body (use a tie wrap to secure the chain on the jack frame). Then, gently hit the inner sleeve to free it from the middle tube.

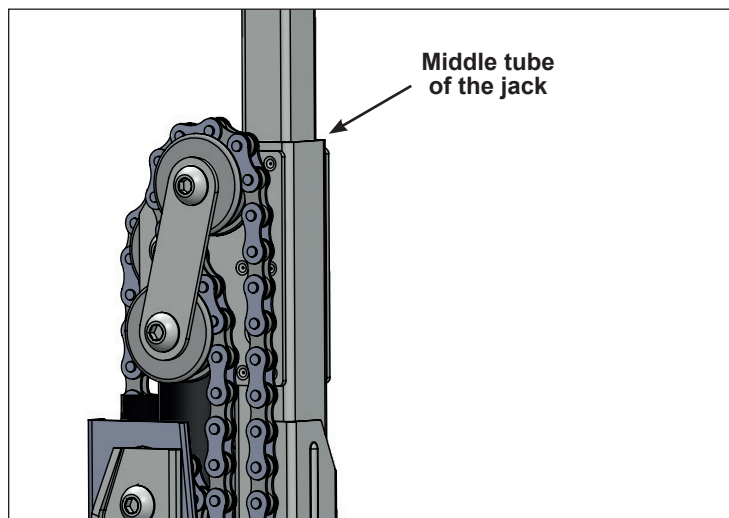


IMAGE 3

- 5) Repeat steps 1 to 4 for each post.

- 6) Raise and lower the cover to visually inspect the jacks and assess if they are the reason for the cover malfunctioning (if one or more jacks need to be replaced; refer to *Replacement of motor jack procedure* no. 233193).

If the jacks seem to be working properly, the problem must come from the misalignment of the sleeves; proceed with Section B - Fixing outer sleeve misalignment.

**B- FIXING OUTER SLEEVE MISALIGNMENT**

- 1) To fix the misalignment of the outer sleeve (image 4), align the top of the outer sleeve with the base of the inner sleeve (image 5), then, without moving the top of the outer sleeve, reposition the tub mount lower bracket to level the base of the outer sleeve using a 36" level.
- 2) Use the key switch to raise and lower the cover to ensure the proper function of the sleeves. There should be no "sticking" of the sleeves, no abnormal sounds (metal grinding or knocking), and the cover should be evenly seated all around the spa perimeter.

Image 4: Outer sleeve misaligned

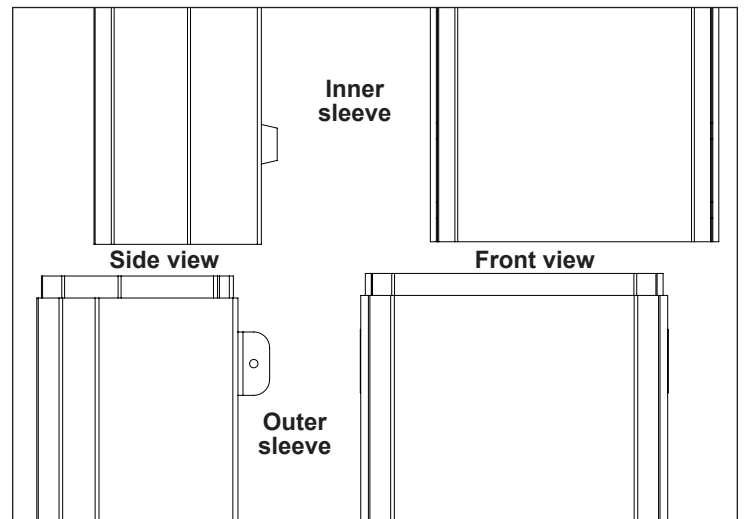


IMAGE 4

Image 5: Outer sleeve aligned

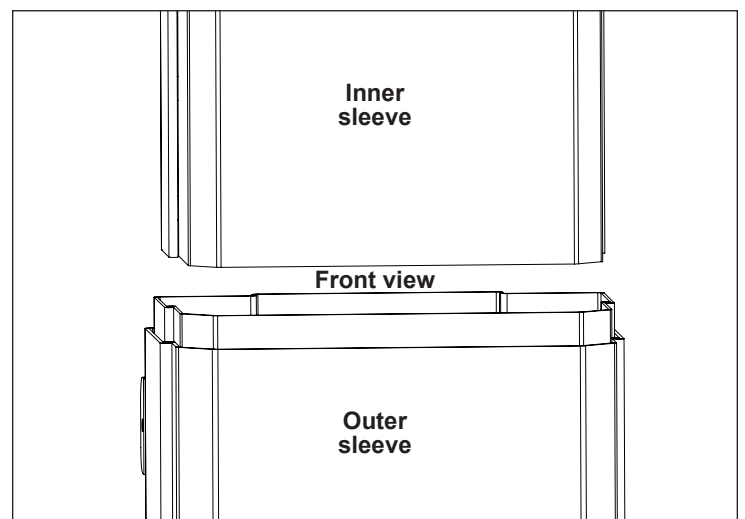


IMAGE 5

**C- EXCLUDING SLEEVES AS BEING THE PROBLEM****NOTE**

Another way to determine if the sleeves are interfering or not with the operation of the cover, is to lower the inner **and** middle sleeves into the outer sleeve. Follow the steps in this section to rule out the sleeves as the cause of the unit malfunctioning.

- 1) Use a Robertson screwdriver to remove the top cover by unscrewing both Robertson no. 8 self-drilling screws (see image 6).

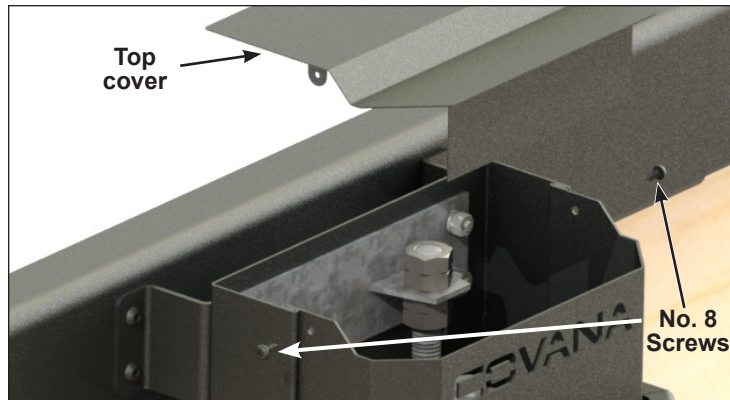


IMAGE 6

- 2) Use a 7/16" socket wrench and spanner to unfasten the sleeve from its cover mount bracket by unscrewing the four 1/4-20 x 3/4" carriage bolts, 1/4" lock washers, and 1/4" hex nuts (see image 7).

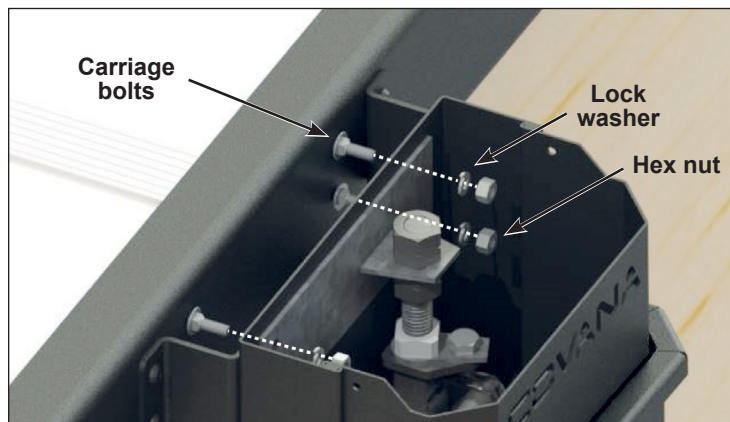


IMAGE 7

- 3) Lower the inner sleeve into the middle/outer sleeves.
- 4) Use a 7/16" socket wrench and spanner to fasten the jack adapter to the post mount bracket using the four previously removed 1/4-20 x 3/4" carriage bolts, 1/4" lock washers, and 1/4" hex nuts (see image 8).
- 5) Repeat the previous steps for each post.

**⚠ WARNING**

Never use the key switch while the cover is not attached to its posts.

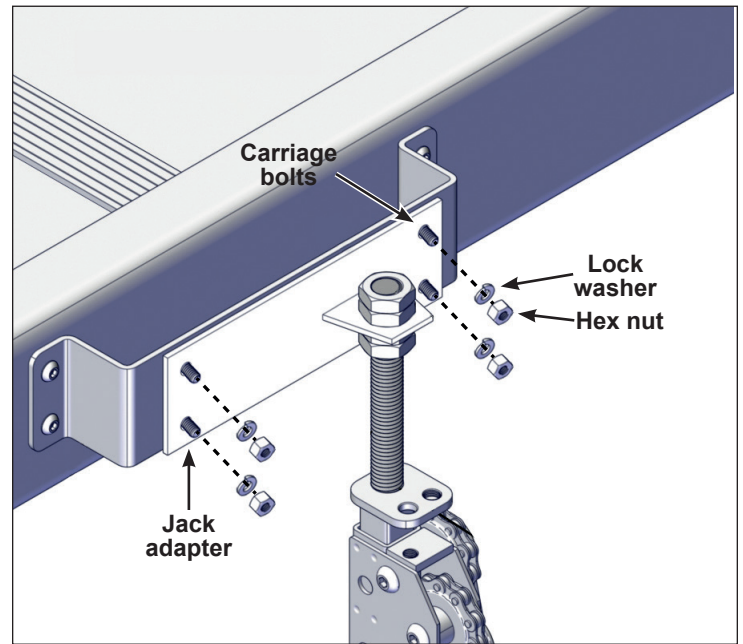


IMAGE 8

- 6) With the inner and middle sleeves still lowered into the outer sleeve, raise and lower the cover. If the cover is still not operating as it should, it is now confirmed that the sleeves are not the cause of the problem. It could be a mechanical or electrical problem; Contact Covana for the Technical Support department.

Conversely, if the cover is working fine, the sleeves must be causing the problem. Ensure they are not misaligned, and that the inner sleeve is not caught on the middle tube of the jack (see Sections A and B).

**D- REINSTALLING THE SLEEVES**

- 1) Use a 7/16" socket wrench and spanner to unfasten the jack adapter from the post mount bracket by unscrewing the four 1/4-20 x 3/4" carriage bolts, 1/4" lock washers, and 1/4" hex nuts (see image 8).
- 2) Slide the sleeves over the top of the jacks and fasten them to the post mount bracket using the 1/4-20 x 3/4" carriage bolts, 1/4" lock washers, and 1/4" hex nuts. Use a 7/16" socket wrench and spanner (see image 7).
- 3) Use both previously removed Robertson no. 8 x 1/2" self-drilling screws to attach the top cover on the post (see image 6).
- 4) Repeat the previous steps for each post.
- 5) Repeat the "Testing the cover" procedure on page 1. If there is any issue with the cover, please refer to the troubleshooting section of the Owner's manual or call Covana for the Technical Support department.