PRODUCT MODELS

- Evolution Cover
- Oasis Cover

PURPOSE OF THE REPAIR PROCEDURE

This repair procedure should be performed if the chain tensioner needs to be replaced or ajusted, or if a motor jack has to be replaced on the Evolution or Oasis spa cover.

PREPARATION

- The cover must be closed.
- Gather the required tools, as seen in the table at right.
- Make sure the parts kit is complete and that parts have not been damaged during transport. Call your local dealer if parts need to be replaced.

TOOLS REQUIRED		
1/2" socket wrench and spanner		Adjustable wrench
Phillips screwdriver	Metric Allen keys	48" long level
Flat blade screwdriver or long nose pliers		Measuring tape

PARTS KIT NO. 233460	QTY	CODE
Oasis G3 Motor post assembly 600N	1	230053
M6-1.0 Panel nut	1	202159
M8-1.25 x 50 mm button head screw	2	233731
Chain guide	2	187235
#10-24 x 1/2" slotted hex washer head screw	2	203479

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⚠ CAUTION

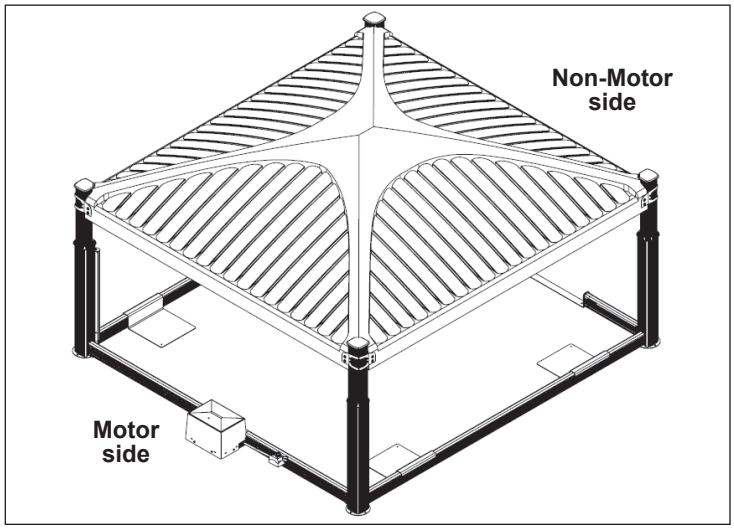
Do not use power tools, some parts are fragile and may break under too much torque.

⚠ 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.

Motor and non-motor sides identification



STEP BY STEP PROCEDURE

A- REMOVING DEFECTIVE JACK ASSEMBLY

1) Remove the rubber cap from each post.

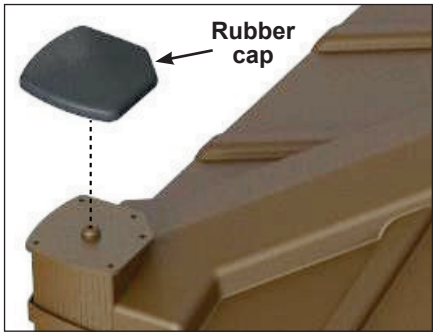


IMAGE 1

2) Remove the four M6 x 20 mm bolts and 5/16" painted metal washers from each post to separate the cover from its posts. **Do not discard!** Leave the bracket attached to the sleeve.

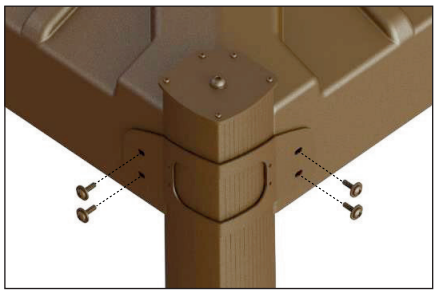


IMAGE 2

3) Remove the 3/8-24 x 1" Allen bolt with a 7/32" Allen key from each post. **Do not discard!**

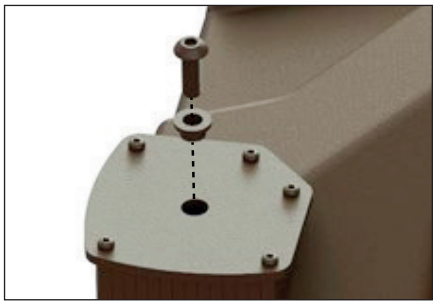


IMAGE 3

4) Loosen the Phillips M6 x 20 mm screw at the bottom of each post. **Do not remove the screw.**

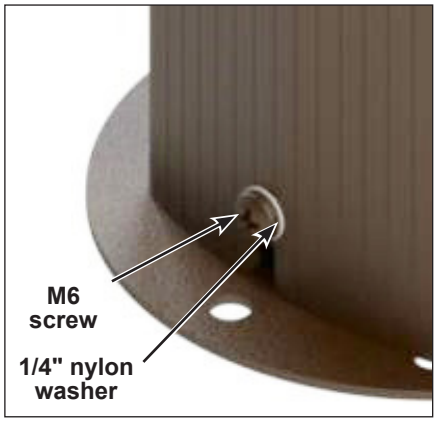


IMAGE 4

5) Slide the sleeves upward to expose the jack. Set them aside in a safe location. If both motor jacks need to be replaced, identify their sleeves to ensure they will not be swapped.

6) If the cover is from **March 2019 or earlier:** For each post, put the jack lock back in its original place and install the M4 x 8 mm screw to secure it. Turn the shaft with the key to align it with the bracket if need be.

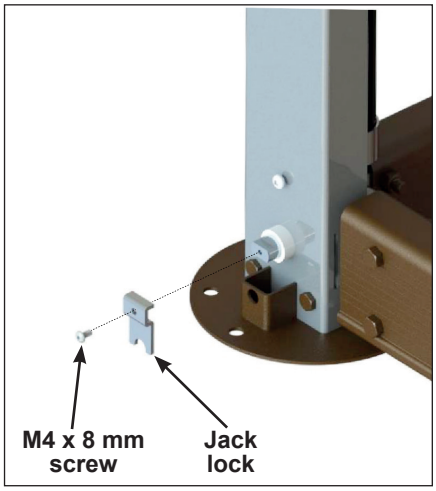


IMAGE 5

If the cover is from **April 2019 and up:** For each post, use the M8 x 50 mm screw at the top of the jack to lock it.

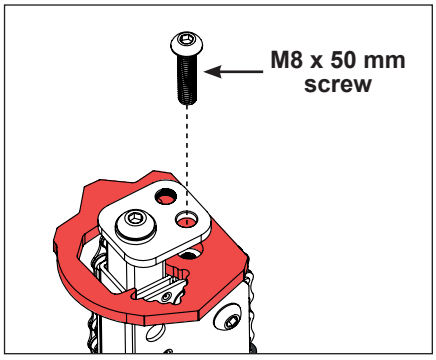


IMAGE 6

⚠ WARNING

Before continuing with this procedure, cut power to the cover.

7) Detach the long U-frames from the drive shaft by removing both hexagonal 5/16-18 x 2" bolts from each post using a 1/2" socket wrench and spanner.

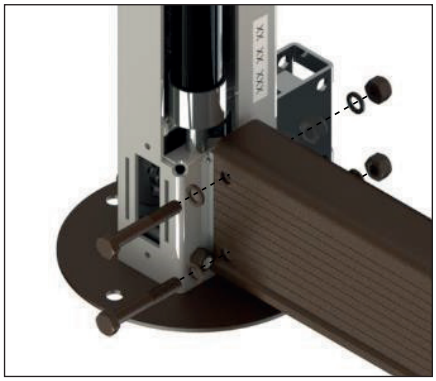


IMAGE 7

8) Lift the U-frames and set them aside.

9) Pull the motor jack away from the motor side so the drive shaft disengages from one side (see image 8).

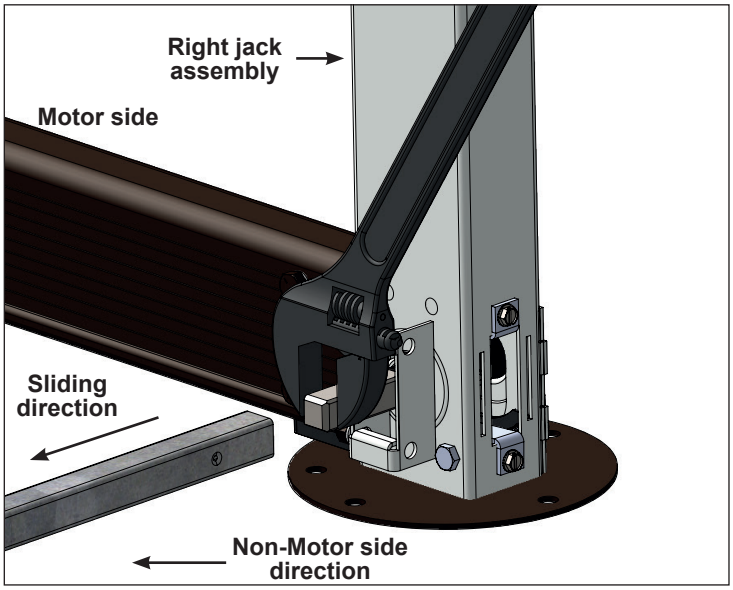


IMAGE 8

10) Remove the four screws holding the operator cover in place. Lift the cover and set it aside.

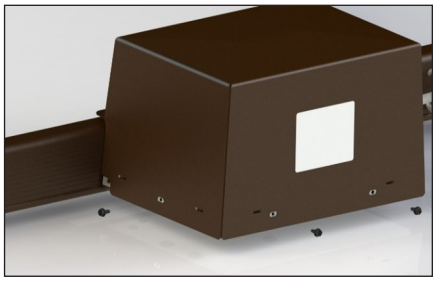


IMAGE 9

11) Remove the screws holding the chain guide in place. Then, remove both chain guides from each jack.

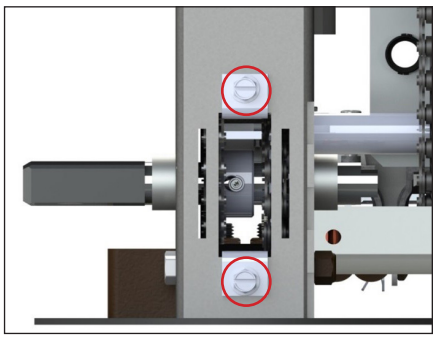


IMAGE 10

12) Remove all the hexagonal screws on the motor side U-frame. Gently lift the U-frame and set it aside (see image 11).

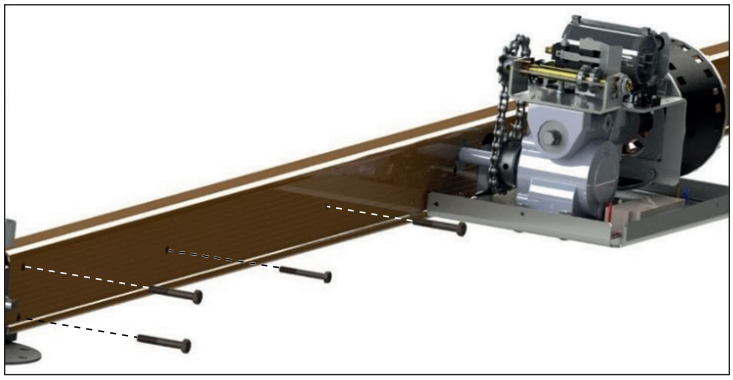


IMAGE 11

13) Remove the chain tensioners from the chain (see image 12).

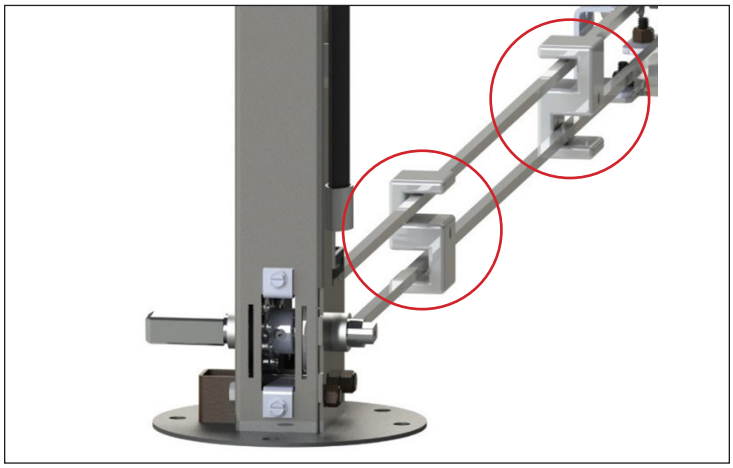


IMAGE 12

14) Pull the jacks closer to one another so the chain loosens.

15) Remove the chain adapter link with the flat blade screwdriver or the long nose pliers on both chains (see image 13).

NOTE

To save time, mark the position of the chain on the driving gear, allowing to save the original company adjusted chain tension at reassembly (see image 14).

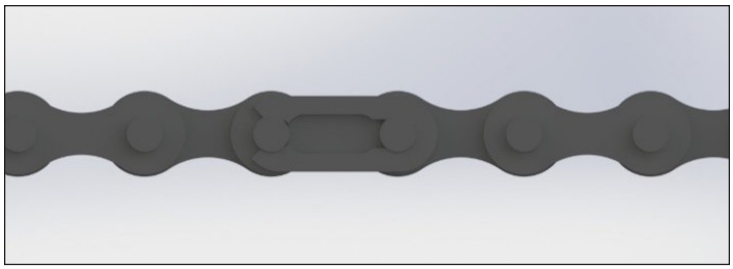


IMAGE 13

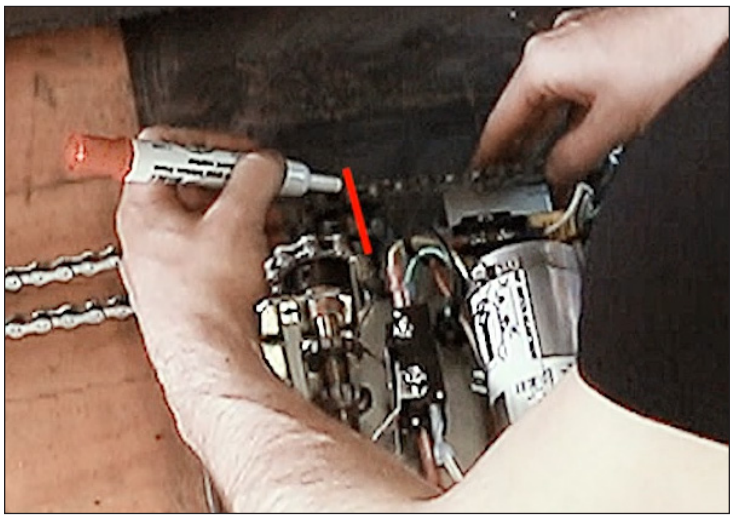


IMAGE 14

16) Lift the top and bottom part of the chain to pull it away from the jacks (see image 15).

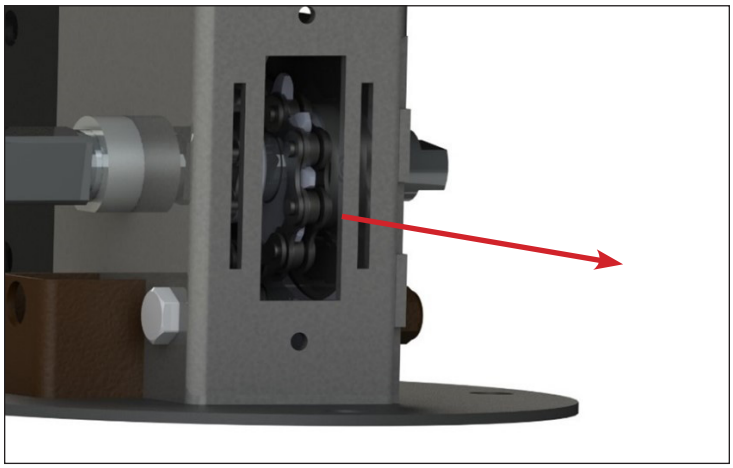


IMAGE 15

B- INSTALLING NEW JACK ASSEMBLY

1) Install the chains and the chain adapter links in the new jack(s), one side at a time. Ensure they are relatively tight on each side (see image 13).
2) Pull the jacks away from one another so the chain is tensioned. You may have to adjust the chain, to make the tension even on both chains.
3) Install the chain tensioners on the chains and use the U-frame to align them with the holes (see image 12).
4) Reinstall the chain guides (see image 10).
5) Gently position the U-frame on the chain making sure the chain tensioners are correctly positioned to be able to put the screws back in.
6) Put all the screws in the U-frame, the 5/16" at the end, and the 1/4" for all the chain tensioners (see image 11).
7) Reinstall the drive shafts on both motor jacks and reinstall the U-frame over it. Make sure the drive shaft is correctly engaged on the jacks as you position the U-frame over it (see image 16).

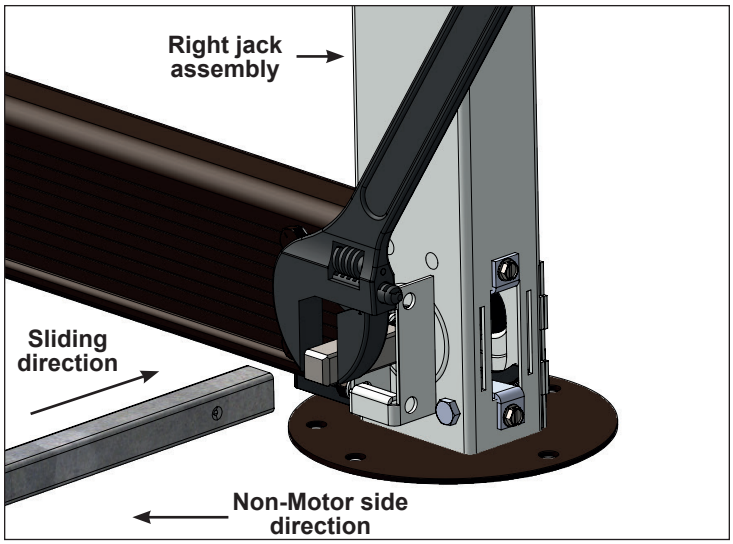


IMAGE 16

9) Install the 5/16" hexagonal screws at the ends of each U-frame (see image 7).

10) Once the U-frames are in place:

If the cover is from **March 2019 or earlier**, unscrew the Phillips M4 x 8 mm screw to remove the jack lock at the bottom of each jack. **Keep the locks and the hardware for future use** (see image 5).

If the cover is from **April 2019 and up**, remove the M8 x 50 mm screw at the top to unlock each jack assembly (see image 6).

⚠ WARNING

Failure to remove the locking screws will damage the lifting mechanism when operating.

Do not remove the alignment bracket on the top of the jack (red part).

11) Slide the sleeves over the jacks. Be sure to align the opening at the bottom of the sleeve with the U-frame (see image 17). Ensure not to swap the sleeves.

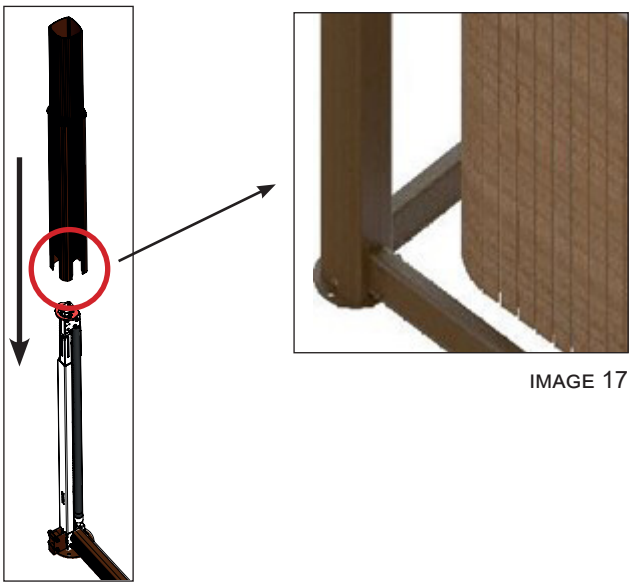


IMAGE 17

12) Tighten the Phillips M6 x 20 mm screw at the bottom of the post (see image 4).

⚠ CAUTION

Make sure that the nylon washer is located on the outside of the outer sleeve.

13) Make sure the all-weather seal on the post is slid all the way down against the outer sleeve.

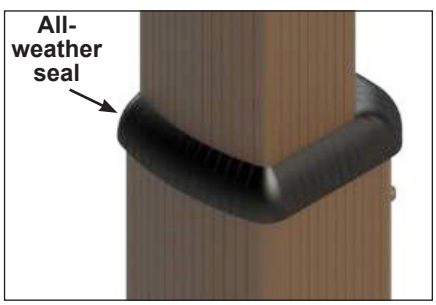


IMAGE 18

⚠ WARNING

Failing to properly position this seal may cause serious damage to the post mechanism.

14) Install the 3/8-24 x 1" Allen bolt with the narrow part of the bushing facing downwards using a 7/32" Allen key on each post (see image 3).

15) Ensure the cover is still centered. Use a measuring tape on all four sides. Also, verify whether all the posts are vertically leveled with a 48" level.

16) Fasten the corner brackets to the cover **(according to the order of installation in image 20, and following the A to D pattern in image 19)** with four Phillips M6 x 20 mm bolts and 5/16" painted metal washers per post.

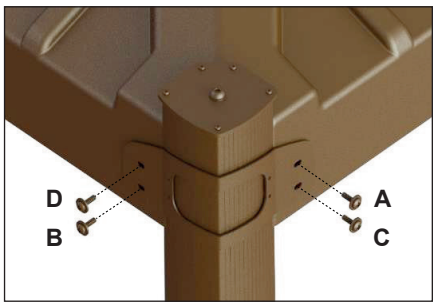


IMAGE 19

⚠ WARNING

Make sure the sleeve is correctly pressed against the outer shell before installing the M6 x 20 mm bolts.

IMAGE 20

17) Verify the installation of each bracket by sliding the middle sleeve up and down by hand. Make sure it 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 the 48" level on both sides of the sleeves. If an interference occurs, look at all the parts that have been worked on and make sure there are no broken screws. Reviewing step 12 to retighten the M6 x 20 mm screw could help.

18) Install the rubber cap on each post (see image 1).

19) Put the power back on and the key back in its key switch socket. Operate the spa cover normally to see if everything is correct. 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.

NOTE

All images shown are for illustration purpose only. Actual product may vary due to the different models this procedure is intended for.