

### PRODUCT MODELS

- C-EP Cover
- Legend Cover

### PURPOSE OF THE REPAIR PROCEDURE

This repair procedure should be performed if the replacement of a jack assembly, on the motor or non-motor side, is required on the C-EP or Legend swim spa cover.

### PREPARATION

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

TOOLS REQUIRED	
5/32" Allen key	Adjustable wrench
7/16" Socket wrench and spanner	48" long level
1/2" Socket wrench and spanner	Robertson screwdriver

*Version française à la page 5.*

Cover Length	MOTOR POST			
	Fabrication year			
	2018*- 2019	Gas Spring Force	2020 to today	Gas Spring Force
12 ft	233190	500 N	233190	600 N
13 ft & 14 ft	233190	700 N	233191	600 N
15 ft to 17 ft	233191	700 N	233191	800 N
18 ft to 20 ft	233192	1000 N	238958	800 N

Cover Length	NON-MOTOR POST			
	Fabrication year			
	2018*- 2019	Gas Spring Force	2020 to today	Gas Spring Force
12 ft to 17 ft	233189	500 N	233189	600 N
18 ft to 20 ft	233189	600 N	234831	800 N

\* The G2 posts are now replaced by the G3 posts. Please order the metric adjustment pack (no. 233457).

**⚠ 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.

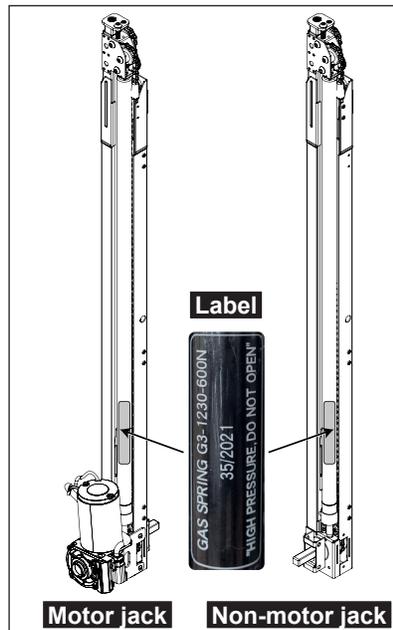
Keep the key out of the key switch socket at all times. The certified Covana installer must keep control of the key during the repair procedure. Derogation from this directive could cause serious injury or damage the cover.

### STEP BY STEP PROCEDURE

**⚠ CAUTION**

A complete non-motor or motor jack assembly is included in the parts kit.

Make sure the label on the replacement jack displays the same information as the one being replaced. This label is located on the gas spring.



### A- REMOVING DEFECTIVE JACK ASSEMBLY

- 1) Lower the cover (fully closed) and ensure it is sitting on the spa completely.
- 2) Use the Robertson screwdriver to remove the top cover by unscrewing the two Robertson no. 8 self-drilling screws (see image 1).

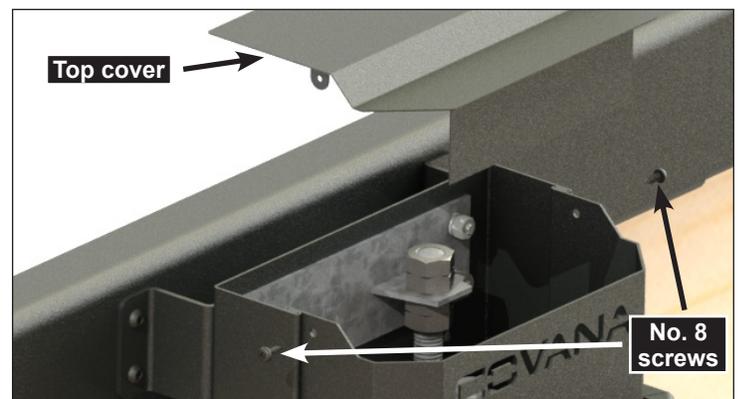


IMAGE 1

- 3) Detach the bottom mount bracket arms from the tub mount brackets. Use a 5/32" Allen key with a 7/16" spanner to unscrew both 1/4-20 x 1" hex drive bolts located on the outside. Then, do the same for the top mount bracket (see image 2).

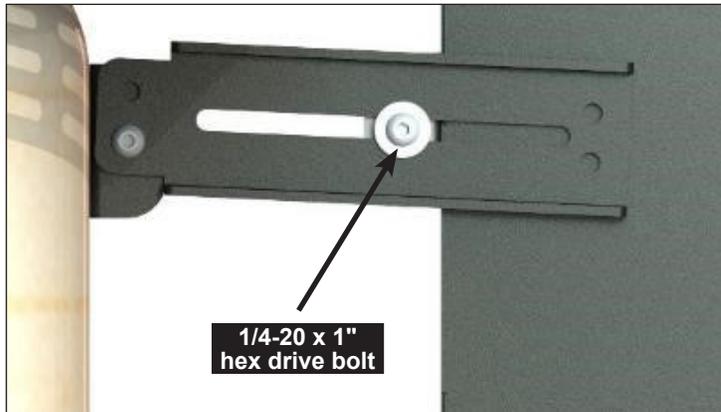


IMAGE 2

- 4) Untighten both 1/4-20 hexagonal bolts at the bottom of the sleeve. Use a 7/16" socket wrench or spanner if there is not enough space (see image 3).

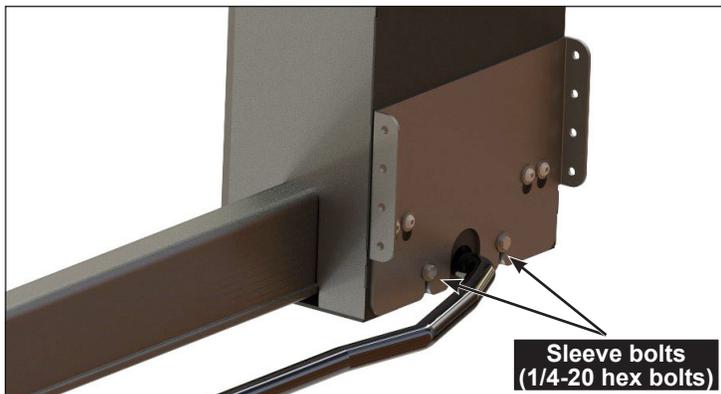


IMAGE 3

- 5) Use a 7/16" socket wrench to unfasten the sleeve from the cover mount bracket by unscrewing the four 1/4-20 x 3/4" carriage bolts (see image 4).

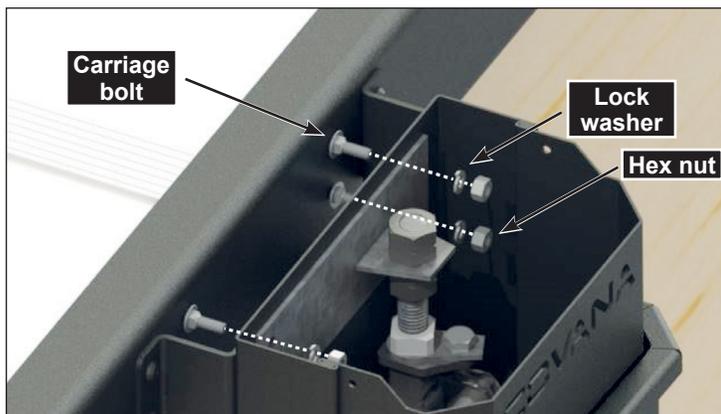


IMAGE 4

- 6) Slide the three (Inner/Middle/Outer) sleeves upward and lay them on a clean flat surface.

### ⚠ WARNING

Slowly and gently pull up the sleeves to prevent injuries.

- 7) If the cover is from **March 2019 or earlier (G2 jack)**: Use the keyswitch to raise or lower the cover in order to align the outer shaft with the jack lock. Use the M4 x 8 mm screw to secure it.

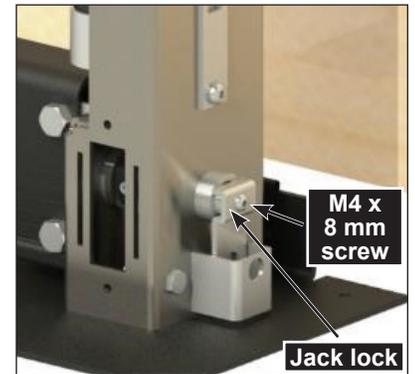


IMAGE 5

If the cover is from **April 2019 and up (G3 jack)**: use the M8 x 50 mm screw at the top of the jack to lock it.

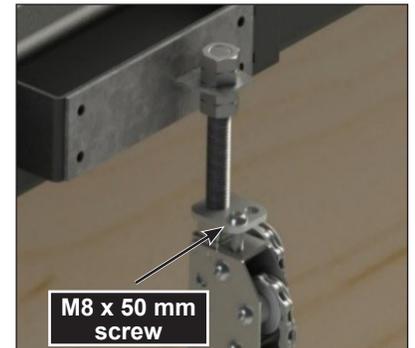


IMAGE 6

- 8) Repeat steps 1 to 6 for the other jack (if a motor jack is being replaced).

### ⚠ WARNING

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

### NOTE

If the jack being replaced is a non-motor jack, skip step 9 and go to step 10.

- 9) Locate the short end of the cable, which can be identified from the metal compression connector near the end of the cable. Disconnect the motor and take the cable away from the base by unscrewing the screws (see image 7).

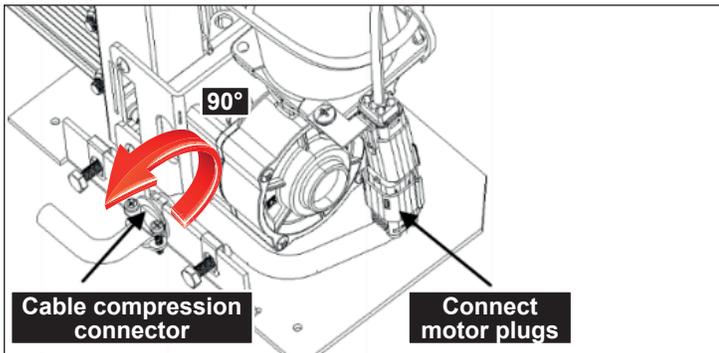


IMAGE 7

- 10) Detach the U-frame from the drive shaft by removing both hexagonal 5/16- 18 x 2" bolts from both posts using a 1/2" socket wrench and spanner (see image 8).

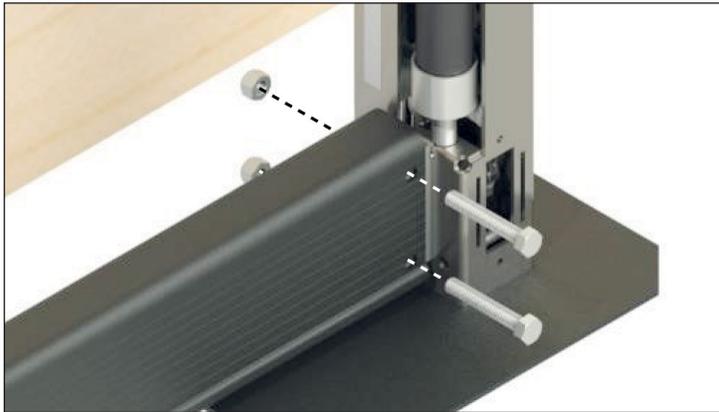


IMAGE 8

- 11) Remove the drive shaft. Slightly tilt the post to facilitate the operation (see image 9).



IMAGE 9

**NOTE**

If the base plate is included with the new jack, skip step 12 and go to Section B: "Installing new jack assembly".

- 12) From underneath the base plate, use the 7/16" socket wrench and spanner to remove the hexagonal 1/4-20 x 2" bolts and the 1/4-20 nylon insert locknuts to separate the jack assembly from the base plate (see image 10).

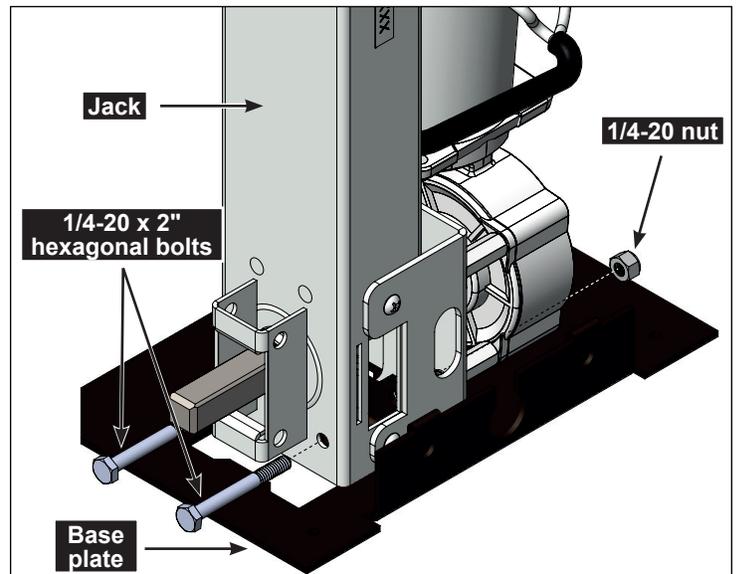


IMAGE 10

**B- INSTALLING NEW JACK ASSEMBLY**

**NOTE**

If the base plate is included with the new jack, skip step 1 and go to step 2.

- 1) Install the base plate on the new jack assembly with the hexagonal 1/4-20 x 2" bolts and the 1/4-20" nylon insert locknuts using the 7/16" socket wrench and spanner (see image 10).
- 2) Insert the drive shaft onto the motorized and non-motorized jack shafts (see image 11).



IMAGE 11

- 3) Install the U-frame over the drive shaft. The U-frame will bolt on the motor and on the non-motor jack. Use a 1/2" socket wrench and spanner to fasten it back in place using the four hexagonal 5/16-18 x 2" bolts and the 5/16-18 nylon insert locknuts (see image 8).
- 4) Make sure that the drive shaft is still engaged at both ends. Slip your fingers under the U-frame to do this operation.
- 5) Once the U-frame is in place, and the drive shaft is engaged:  
If the cover is from **March 2019 or earlier (G2 jack)**: Unscrew the Phillips M4 x 8 mm screw to remove the jack lock bracket at the bottom of the non-motor jack. **Keep the lock bracket and the hardware for future use** (see image 5).

If the cover is from **April 2019 and up (G3 jack)**: Remove the M8 x 50 mm screw at the top to unlock the jack assembly (see image 6).

### WARNING

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

- 6) If anything has shifted during the process, use the adjustable wrench to adjust the height of the jack adapter located at the top of the jack so that it matches the cover mount bracket holes (see image 12).

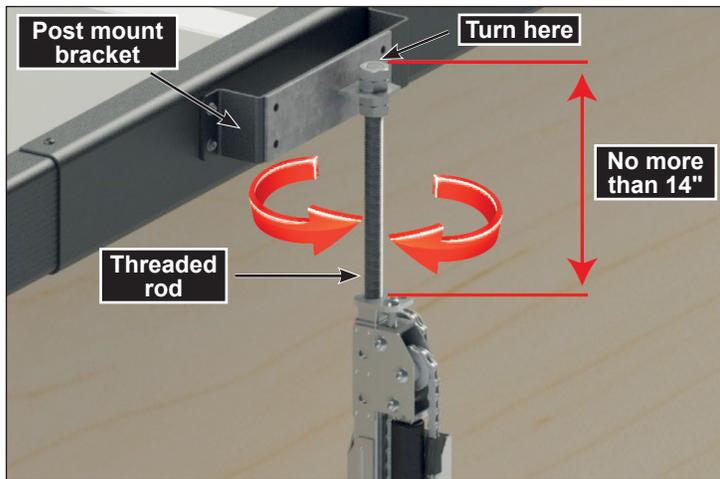


IMAGE 12

- 7) **When replacing a motor jack**: Locate the short end of the cable, which can be identified from the metal compression connector near the end of the cable. Run the connector through the hole on the back of the motor jack base plate. Connect the cable to the motor harness and tighten the screws of the compression connector onto the base. The screws of the compression connector should be oriented horizontally. You might have to rotate the connector as shown on image 7. Let the remainder of the cable pass near the U-frame.

- 8) Slide the three sleeves over the jack and use a 7/16" socket and spanner to fasten them using the 1/4-20 x 3/4" carriage bolts at the top with 1/4" lock washers and 1/4-20 nuts (see image 4).

### WARNING

Slowly bring the sleeves back down to prevent either hand injuries or damaging the unit.

- 9) Retighten the 1/4-20 hexagonal bolts at the bottom of the sleeves. Use a 7/16" socket wrench or spanner if there's not enough space. Ensure that the washer is outside of the outer sleeve. This will ensure the sleeve is held correctly (see image 3).
- 10) Use a 5/32" Allen key and 7/16" spanner to attach the top mount bracket arms to the tub mount brackets using the 1/4-20 x 1" hex drive bolt and 1/4" flat washer on the outside. Use a 1/4" lock washer and 1/4-20 nut on the inside. Then, do the same for the bottom mount bracket (see image 2).
- 11) Repeat steps 1 to 10 for the other jack (if a motor jack is being replaced).
- 12) Use the 48" level to make sure the posts are still level in both axes. If not, unscrew the mount arms and reposition the sleeves. Use the outer sleeve as a reference (see image 13).



IMAGE 13

- 13) Use the previously removed Robertson no. 8 x 1/2" self-drilling screws (two per post) to attach the top cover on both posts (see image 1).

### IMPORTANT

Reinstall the all-weather seals in their original position; i.e., on the outer sleeve extremity of every post.

- 14) 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.