PRODUCT MODELS

- Evolution Cover
- Oasis Cover

PURPOSE OF THE REPAIR PROCEDURE

This repair procedure should be performed when the replacement of a gas spring on a non-motor jack assembly is required 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, wrench & spanner		Heat gun
Robertson screwdriver	Phillips screwdriver	48" long level
Long nose pliers	Locking pliers	Utility knife
Measuring tape	7/32" Allen key	

PARTS KIT NO. 226557 (G2) OR 233276 (G3)	QTY	CODE
Gas spring (G2) OR	1	188968
Gas spring (G3)	1	237395
5/64" x 3/4" Zinc-plated cotter pin (G2 and G3)	2	226588
Heat shrink tubing (G2 and G3)	2	211572

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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.

STEP BY STEP PROCEDURE

A- REMOVING DEFECTIVE GAS SPRING

1) Remove the rubber cap from each post.
Do not discard!

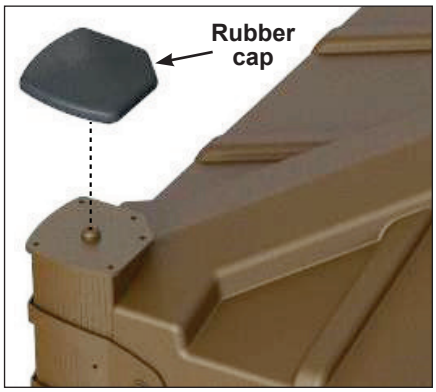

IMAGE 1

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

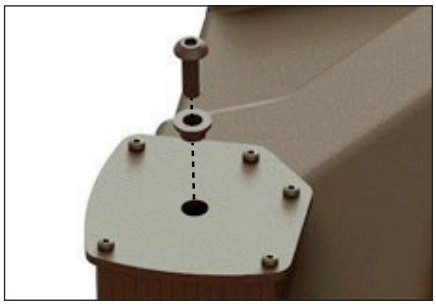

IMAGE 2

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

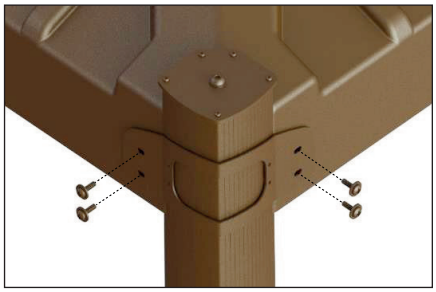

IMAGE 3

NOTE

The following steps should be performed ON THE MOTOR AND NON-MOTOR POSTS ON THE SIDE WHERE THE GAS SPRING HAS TO BE CHANGED.

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

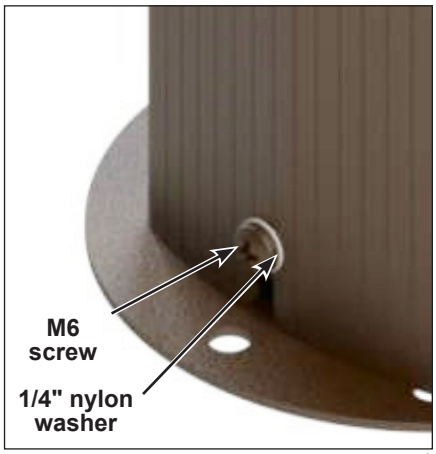

IMAGE 4

5) Slide the sleeves upward to expose the jack. Set them aside in a safe location.

6) Detach the long 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.

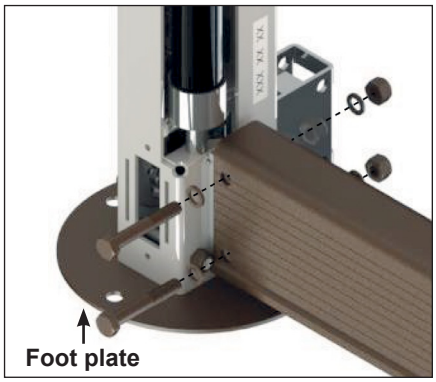

IMAGE 5

⚠ WARNING

Ensure the drive shaft remains engaged and that the foot plates are anchored to the ground throughout the procedure (image 5). Injury might occur if these instructions are not followed.

7) Lift the U-frame and set it aside.

NOTE

The following steps should be performed ON THE NON-MOTOR POST WITH THE DEFECTIVE GAS SPRING ONLY.

8) Turn the key switch to raise the jack by approximately 4".

9) Install locking pliers at the bottom of the exposed inner jack tube. **The pliers need to be very tight around the inner tube**.

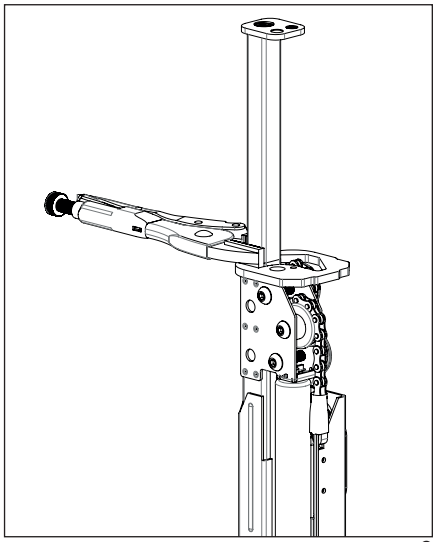

IMAGE 6

10) Turn the key switch to lower the jack by 2" in order to remove the tension from the chain (or metal wire according to your model).

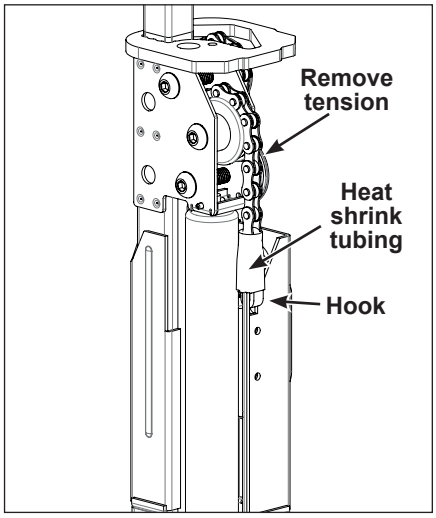

IMAGE 7

11) Use a utility knife to cut the heat shrink tubing and remove it from the hook (see image 7).

12) Remove the hook from the jack outer section.

13) Remove both spring pins. Use pliers or punch them out (see image 8).

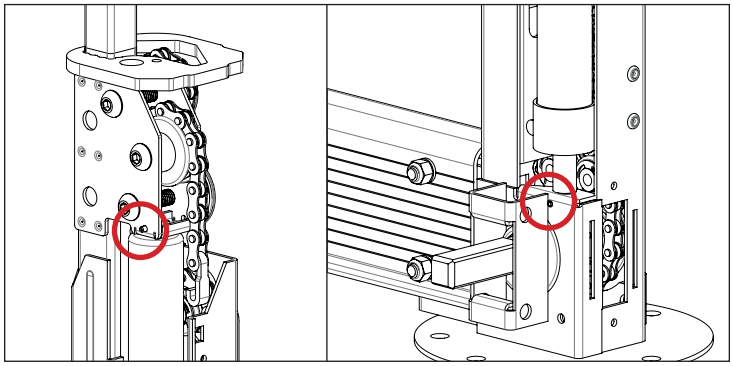

IMAGE 8

14) Turn the key switch to raise the jack to its maximum height, then remove the defective gas spring.

NOTE

Maximum height: Travel is set to approximately 48" (122 cm).

B- INSTALLING NEW GAS SPRING

⚠ CAUTION

Refer to the label on the gas spring to make sure the load of the new gas spring is the same as the previous one.

1) Install the new gas spring making sure both extremities are inserted in their appropriate place (see image 9).

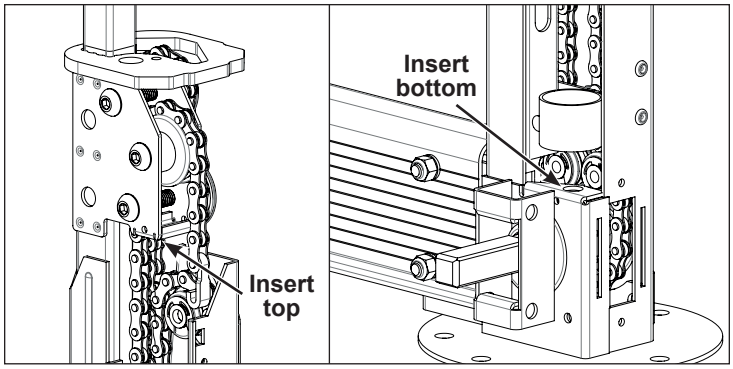

IMAGE 9

2) Lower the jack by 2" by turning the key switch in the down position (🡻).
3) Install the new cotter pins; use pliers if need be (see image 10).

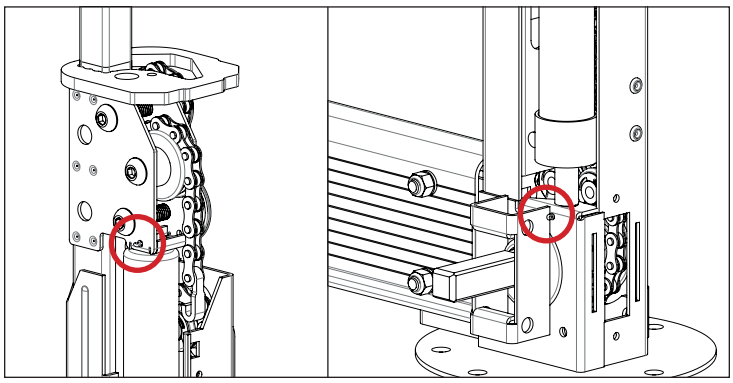

IMAGE 10

4) Turn the key switch to lower the cover enough to remove the chain.
5) Insert the chain (or metal wire according to your model) in the heat shrink tubing.

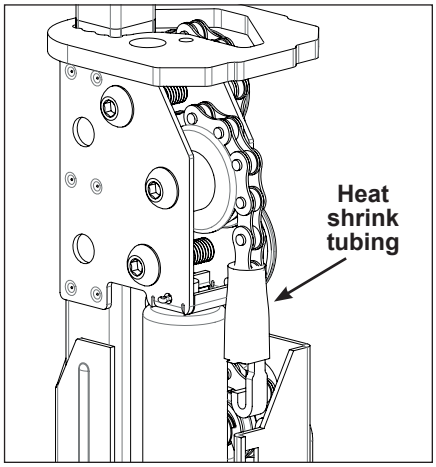

IMAGE 11

6) Put the hook back on the post and cover the hook with the heat shrink tubing.
7) Use a heat gun to shrink the heat shrink tubing on the hook.
8) Turn the key switch to raise the cover to put tension back on the cable, and remove the locking pliers from the inner jack tube.
9) Turn the key switch to lower the jacks.
10) Install the long U-frame over the drive shaft. The U-frame will bolt on the motor and non-motor jacks. Secure in place with the four hexagonal 5/16-18 x 2" bolts, the four 5/16-18 nylon insert lock nuts, and the eight 5/16" plastic washers using a 1/2" socket wrench and spanner (see image 5).
11) Slide the sleeve over the jacks. Be sure to align the opening at the bottom of the sleeve with the U-frame attached (see image 12).

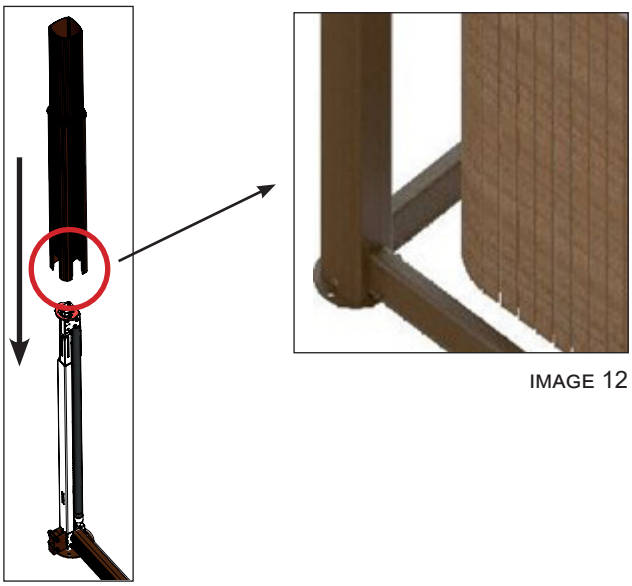

IMAGE 12

12) Tighten the Phillips M6 x 20 mm screw at the bottom of the sleeve (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.

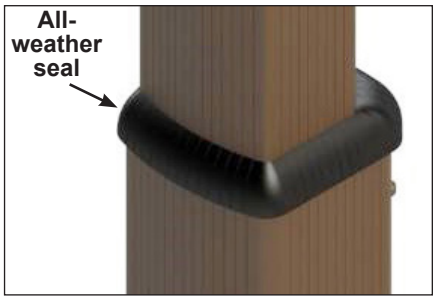

IMAGE 13

⚠ 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 both posts (see image 2).

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 bracket to the cover **(following the A to D pattern as shown at right)** with four Phillips M6 x 20 mm bolts and 5/16" painted metal washers.

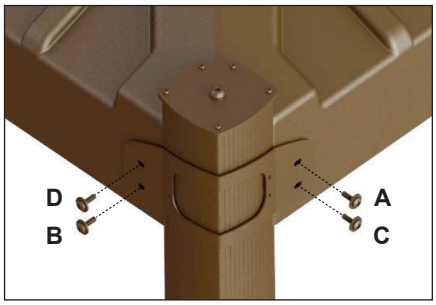

IMAGE 14

17) Repeat step 16 for each remaining corner bracket, follow the order of installation (1 to 4) as shown at right.

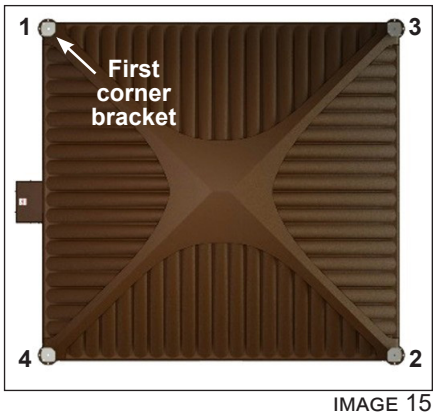

IMAGE 15

⚠ WARNING

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

18) Verify the installation of the brackets 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.

19) Install the rubber cap on both posts (see image 1).

20) Raise and lower the cover to make sur its lower and upper limits have not changed.

21) Put 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.5) Insert the chain (or metal wire according to your model) in the heat shrink tubing.