

# COVANA

## EVOLUTION INSTALLATION MANUAL



ERRATA

ASSEMBLY PREPARATION

## Assembly preparation

### **WARNING**

- ◆ Before assembling, keep in mind not to overtighten bolts. Power tools **must not** be used. The bolts will break under too much torque.

**Note:** The following figures represent the assembly of an 8' model. Panel size may vary.

- 1) Attach the installation foam to the top of the hot tube near each corner using the masking tape provided in the seal bag. There must be at least 3 foam spacers on each longest side. Do not stack two pieces of foam on top of the other. (Figure 44)

**Note:** The cover is rectangular. The standard model will need the motor frame to be on the short side of the COVANA cover, whereas the long side will need the motor frame on the long side of the COVANA cover. Only the 8 feet model is available in the long side version. (Figure 45)

### **CAUTION**

- ◆ The foam pieces must be placed on the flat top surface of the hot tube. (Figure 44)

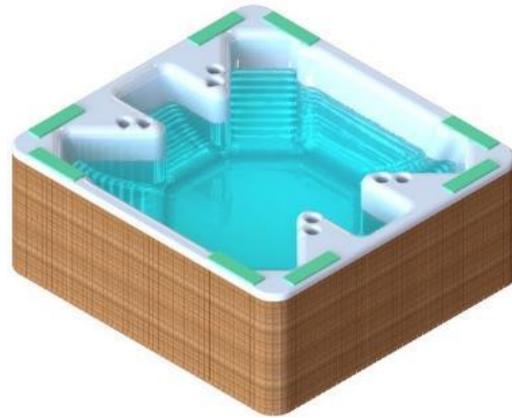


Figure 44

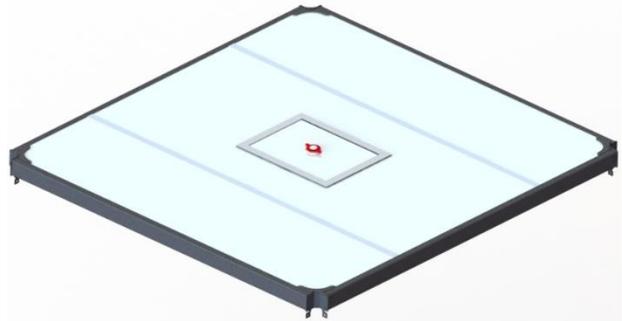


Figure 45

- 2) Assemble **two I to C short connection** plate as shown in Figure 46. Use 1/4".-20 x 5/8 in. carriage bolts, 1/4".-20 nuts and 7/16" (11 mm) socket wrench and spanner. Insert the I to C spacer between the I to C connection plate and the bent part. The carriage bolts and nuts can now be properly tightened. (Figure 46)
- 3) Repeat step 2 for a second assembly.

**⚠ CAUTION**

- ◆ Two I to C connection plates must be installed per I-beam.
- ◆ Ensure these bolts and nuts are not overly tightened so they don't bend the I to C bracket and the I to C short connection plate.

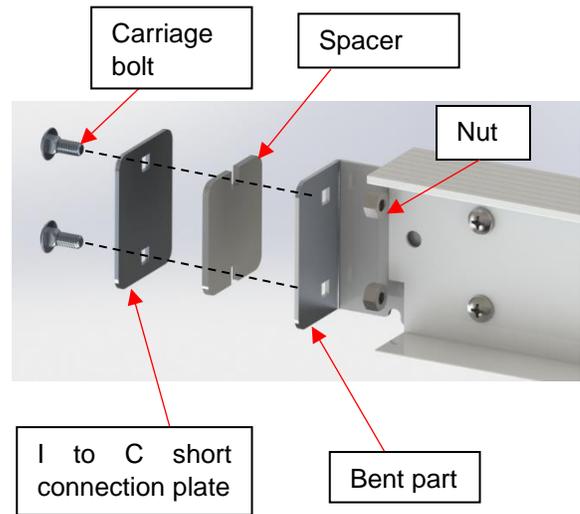


Figure 46

- 4) It is recommended to use a table as a base to build the top section of the cover, and later transfer it to the hot tub once it is assembled. If you use a table, use the foam to support the cover assembly and prevent damage to the cover.

**⚠ CAUTION**

- ◆ If there is limited space, please follow the next steps while assembling **directly onto the hot tube**. Avoid scratching the hot tub or any components of the cover.

- 5) Place the escape hatch panel onto the middle of the installation surface. **Ensure the seal around the escape hatch opening is on top and the top sticker is properly oriented** (Figure 47)

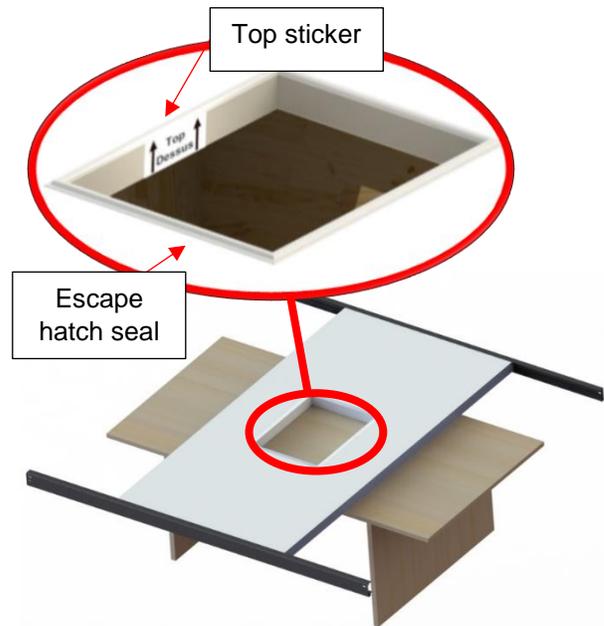


Figure 47

- 6) Assemble the long C-Channels, 94 9/16 in. (240 cm), over the panel previously placed on the installation surface. (Figure 47)

**⚠ WARNING**

- ◆ When assembling C-channel onto foam panel, be careful not to delaminate the fiberglass.

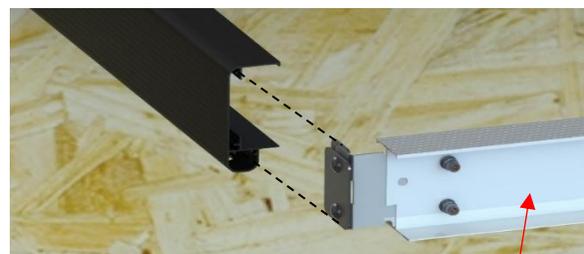


Figure 48



- 7) Slide one I-beam with short I to C connection plates in the C-channels on both side of the middle panel. Place the I-beams in such manner where the bent portion of I to C connection is pointing inwards. (Figure 48, Figure 49 and Figure 52) Ensure they fit snug with foam panel. Ensure the sticker in the I-beam is facing upwards. (Figure 50)

**⚠ CAUTION**

- ◆ Ensure the upright position of I-beam.
- ◆ Ensure the proper insertion of the short I to C connection plate in the C-channel (Figure 51)
- ◆ When inserting the I-beam into the fiberglass foam panel, ensure not to chip the fiberglass.
- ◆ Make sure the I-beam has cleared bottom and top section
- ◆ While inserting the I-beam in the C-channel, make sure it is always square with the C-channel.

- 8) Slide the end panels on both ends of the cover. Ensure the I-beams have slid over the panel on both bottom and top side. (Figure 52) Note: The tapered end toward the end of the cover.

**⚠ CAUTION**

- ◆ Ensure that the panels are pushed as far as possible by hand and are completely inserted in the I-beam.

**⚠ WARNING**

- ◆ Ensure I-beams are oriented towards the top as indicated with the sticker. (Figure 50)
- ◆ When assembling C-channel onto foam panel, be careful not to delaminate the fiberglass.
- ◆ Make sure the I-beams have cleared bottom and top section.
- ◆ If you have a color panel, make sure the colored side is on top.

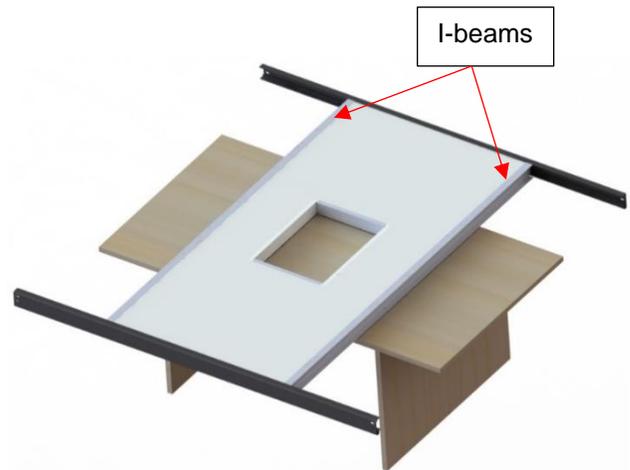


Figure 49



Figure 50



Figure 51

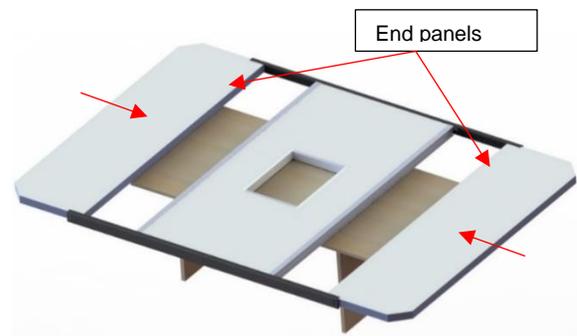


Figure 53

- 9) Insert the corner brackets in both ends of the C-channels remaining. Use the provided Robertson sheet metal #8 x 3/4 in. screws on the inside holes. **The two remaining holes will be used later.** (Figure 53)

**⚠ WARNING**

- ◆ Do not overtighten the screws as they might break.

- 10) On one end of the cover, slide one corner brackets and C-channels assembly. (Figure 54) It is recommended to slightly engage the top flange before the bottom when sliding the C-Channel onto the foam panel.

**⚠ WARNING**

- ◆ When assembling the C-Channel onto the foam panel, be careful not to delaminate the fiberglass.

- 11) On both corner of the assembly, use the provided Robertson sheet metal #8 x 3/4 in. screws on the inside holes of the side C-channels already installed. (Figure 55)

**⚠ WARNING**

- ◆ Do not overtighten screws as they might break.

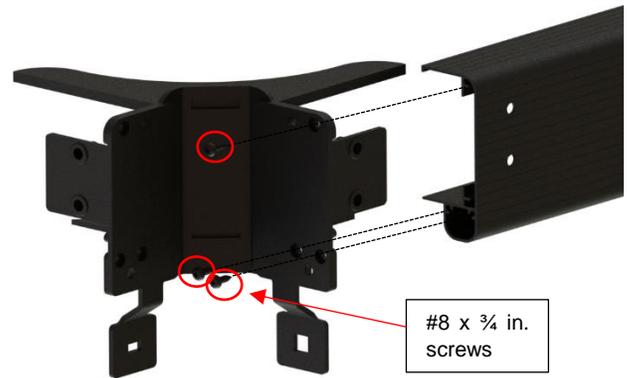


Figure 53

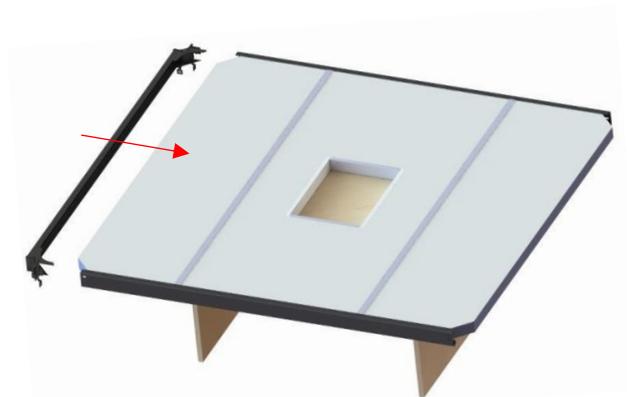


Figure 54

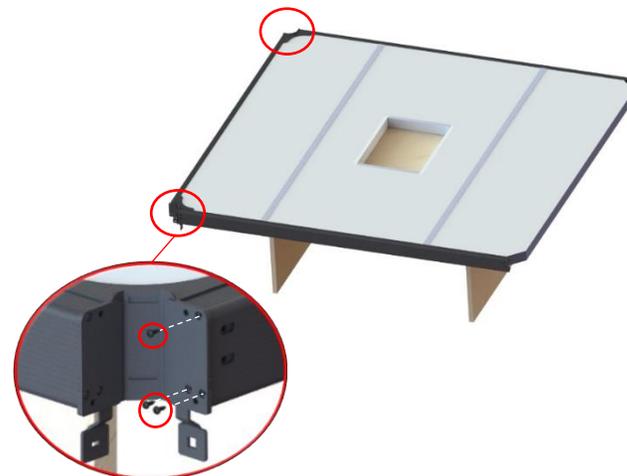


Figure 55

12) On the other end of the cover, slide the other corner bracket and C-channel assembly. Use the 50 ft. (15 m) ratchet straps on the corner of the corner brackets to properly lock in the foam panels. It will also help you to assemble the final part of the cover. The ratchet straps must bind the Evolution at the corner brackets like shown in Figure 57. The ratchet strap must not cover the screw holes on the corner bracket.

**⚠ CAUTION**

- ◆ Use cardboard or non-abrasive material under the ratchet of the straps. The ratchet could damage the fiberglass panel
- ◆ Make sure that the ratchet straps do not cover the three holes on the side c-channels.
- ◆ Do not install the ratchet straps on the end c-channel in order to avoid the bending of the corner bracket.
- ◆ Put cardboard under the metallic part of the ratchet strap to avoid damaging the panel surfaces.

13) On both corner of the assembly, tighten the Robertson sheet metal #8 x 3/4 in. screws on the inside holes of the side C-channels. (Figure 58)

**⚠ WARNING**

- ◆ Do not overtighten screws as they might break.

14) Carefully position the assembled top section of the cover onto the hot tub. Try to align the cover as best as possible.

**⚠ CAUTION**

- ◆ Failure to correctly position the cover onto hot tub could result in scratching of the acrylic or damaging the cover.
- ◆ Ensure foam pieces are correctly under the I-beams and in every corners of the hot tub.

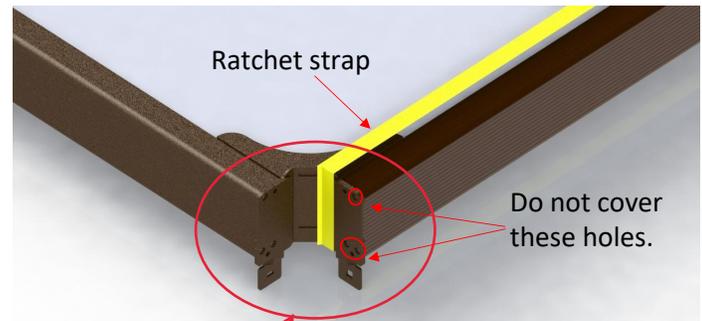


Figure 56

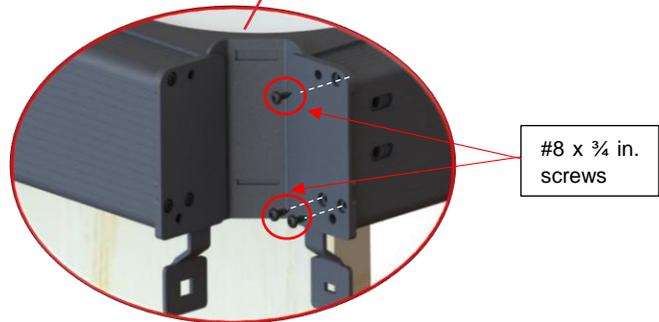


Figure 57

15) Turn the escape hatch handle to retract the arms and install it into the escape hatch opening of the center panel. (Figure 59)

**⚠ CAUTION**

- ◆ Verify the functionality of the escape hatch's release mechanism prior to installation and before use. Please ensure that the hatch's arms are retracted when open and non-retracted when closed. (Figure 60)

**⚠ WARNING**

- ◆ Failure to install the escape hatch properly may impede the performance of the COVANA cover, such as vapor leakage, water infiltration and unwanted access to hot tub.
- ◆ All security risks such as drowning, injury or undesired entry due to an open COVANA cover without an escape hatch installed are not approved by COVANA and product certification will be void.

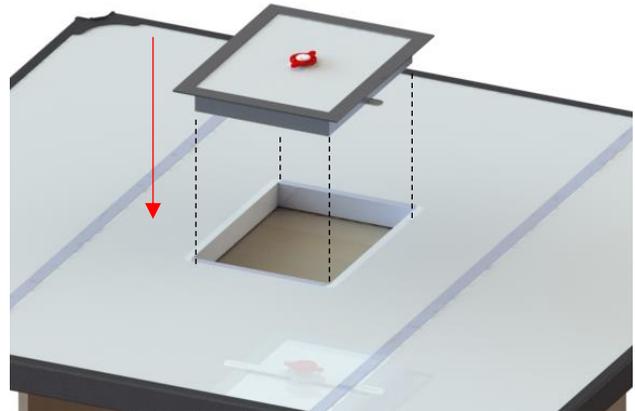


Figure 58

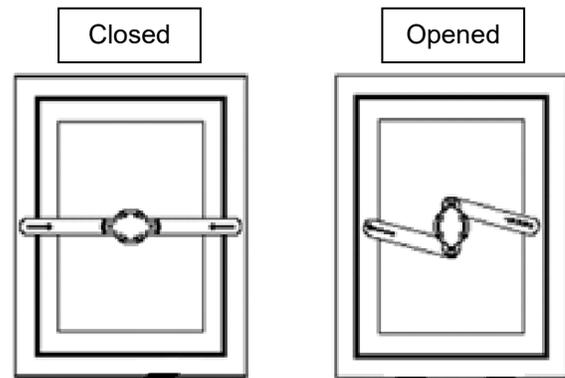


Figure 59