Owner's Manual

Oasis



COVANA

COVANA

SPA COVER MANUFACTURER

OWNER'S MANUAL



MANUAL NO. 264399

OASIS COVER

MANUAL NO. 264399

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SAFETY AND IMPORTANT INSTRUCTIONS

CONGRATULATIONS!

Congratulations for the purchase of your new COVANA cover!

IMPORTANT NOTE

PLEASE REGISTER YOUR COVER AT THE TIME OF PURCHASE TO ENSURE A PROPER FOLLOW-UP PROCESS.

COVANA.COM/EN/WARRANTY-REGISTRATION

NOTE



FOR SERVICE AND ADVICE, DO NOT HESITATE TO CALL YOUR LOCAL AUTHORIZED COVANA RETAILER.

IMPORTANT INFORMATION

DANGER, WARNING, CAUTION and NOTE are used throughout this manual to emphasize important points when necessary:

⚠ DANGER

Directs your attention to unsafe practices which could result in serious personal injury or death.

⚠ WARNING

Directs your attention to unsafe practices which could result in serious personal injury or severe damage to the cover.

⚠ CAUTION

Directs your attention to unsafe practices where personal injury is not likely but damage to cover components could occur.

NOTE

Indicates supplementary information essential to the proper operation of the cover, proper installation or proper maintenance.

IMPORTANT NOTE



READ THIS MANUAL BEFORE USING THE COVER.

NOTE

Illustrations in this manual are used for reference only and may differ from the actual cover; however, key components are represented as accurately as possible.

Keep this manual in a safe location for future reference.

Before reproducing or copying this manual, in whole or in part, written consent must be obtained from Covana. Covana reserves the right to make changes without notice and without incurring any obligation.

SAFETY

The cover was designed, tested and certified to be installed over a spa under important installation instructions issued by Covana. Any other type of usage will void the warranty and product certification.

⚠ CAUTION



THE COVER WAS NOT DESIGNED TO SUPPORT ADDITIONAL LOAD OR PEOPLE WALKING OR STANDING ON IT. FAILURE TO FOLLOW THIS INSTRUCTION WILL VOID THE WARRANTY AND ITS CERTIFICATION.

The power safety cover meets ASTM F1346-23 requirements.

DRUGS AND ALCOHOL

⚠ DANGER

THE USE OF DRUGS OR ALCOHOL WHILE OPERATING THE COVER IS STRICTLY PROHIBITED. THE IMPAIRMENT OF JUDGMENT, VISION OR HEARING MIGHT AFFECT THE SAFETY OF OTHER PEOPLE OR RESULT IN DEATH.



IMPORTANT SAFETY INSTRUCTIONS

⚠ WARNING

KEEP THESE INSTRUCTIONS IN A SAFE LOCATION.
REVIEW THESE INSTRUCTIONS REGULARLY.

NOTE

READ AND FOLLOW ALL INSTRUCTIONS.

⚠ WARNING

CALIFORNIA PROPOSITION 65

This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

⚠ DANGER

- Do not allow children under the age of 18 to use this product unless they are supervised at all times.
- Failure to follow all the instructions may result in injury or even death.
- Do not climb, walk, sit or stand on the cover at any time.
- Never operate the cover until all people and objects are out of the spa.
- Do not operate the cover in extreme wind. See TECHNICAL SPECIFICATIONS section for the wind limitations.

⚠ WARNING

- Be sure to keep the key out of the reach of children under the age of 18.
- Do not put any type of fabric or plastic sheet, such as a tarpaulin or canvas, on the cover. This can overheat the cover and cause it to warp.
- Inspect the cover periodically. It should raise smoothly and evenly. Contact your Covana retailer if any unusual mechanical sound is heard during cover operation.

⚠ DO'S

- Remove the key from the key switch after operating the cover. Users must bring the key in the spa with them to prevent the unauthorized operation of the cover. Store the key in a secure location when not in use.
- Check the cover frequently for any sign of deterioration.
- Have any repairs, adjustments or mechanical work performed by a certified Covana retailer as soon as possible when you notice any malfunction.
- Completely lower the cover when it is not in use or if the spa is not being monitored.
- The cover should only be operated by an adult.
- This product can be operated by an 8-year-old or older child and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge **ONLY** if they are supervised by an adult or have received instructions regarding safe use of the cover.
- Children must not play with the product. Cleaning and user maintenance must not be performed by children without supervision.

⚠ DON'TS

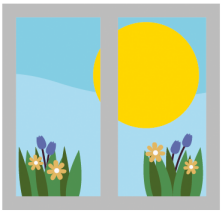
- Do not operate the unit before all mechanical and electrical connections are completely installed.
- Do not step on or stack anything on the operator cover.
- Do not use an extension cord to supply electrical power to the cover. The extension cord may not be properly grounded, and the connection is an electric shock hazard. An extension cord may cause a voltage drop, which may cause the motor to overheat.

DON'T



DO NOT KEEP THE COVER OPEN FOR MORE THAN 12 CONSECUTIVE HOURS. FAILURE TO FOLLOW THIS INSTRUCTION MAY CAUSE PERMANENT DEFORMATIONS TO THE COVER.

⚠ CAUTION



DO NOT CONVERGE OR DIRECTLY REFLECT SUNLIGHT ON THE COVER. THIS COULD CAUSE PERMANENT DAMAGE (E.G.: REFLECTION FROM A WINDOW).

⚠ CAUTION

- Use only accessories and tools approved by Covana.
- Do not rotate or slide the cover using its edges. This may damage the edge components.
- When unpacking after delivery or disassembling parts, always keep them in a safe location on a clean and level surface as to not damage them.
- This product mainly contains steel, plastic, fiberglass, foam, copper and die-cast aluminum. Recycle properly according to the local rules.
- The gearbox contains oil and other materials. Recycle properly according to the local rules.
- The jack stroke is limited by two limit switches. These switches are pre-adjusted at the factory. Refer to the LIMIT SWITCH ADJUSTMENT section before making any adjustments. An improper adjustment can result in damage to the operator and/or to the cover.

RISK OF ELECTROCUTION

⚠ WARNING



ALL ELECTRICAL CONNECTIONS MUST BE DONE BY A CERTIFIED ELECTRICIAN OTHERWISE THE CERTIFICATION AND WARRANTY WILL BE VOID.

⚠ CAUTION

Any modifications to the electrical components will void the warranty.

⚠ DANGER

Failure to comply with these instructions may result in death by electrocution or serious injury.

⚠ DANGER

- Disconnect or turn off and secure all power supplies before starting any intervention on the cover.
- A circuit breaker needs to be incorporated into the fixed wiring at the time of installation. This circuit breaker must be accessible to the user or service technician to turn the power off for future maintenance or repair.
- Only a certified electrical contractor may perform any electrical maintenance on the cover. The wiring must comply with all applicable local electrical regulations.
- The operator must be connected to a circuit that is protected by a dedicated ground fault circuit interrupter (GFCI) that complies with all applicable local electrical codes and regulations.
- Install the cover in such a way that drainage directs water away from the electrical and the mechanical components at the base.
- Do not connect any auxiliary components to the electrical system of the cover unless they have been approved by Covana.
- Replace electrical components with original components provided or approved by Covana. Ask your retailer for replacement parts.
- To reduce the risk of electric shock, replace a damaged electrical cord immediately. Failure to do so may result in death or serious personal injury due to electrocution.
- Do not bury the electrical wires into the ground unless using a direct-burial underground cable. Not respecting this precaution may result in death, or serious personal injury due to electrocution.

ELECTRICAL WARNING

⚠ WARNING

- To reduce the risk of electric shock, the green-colored terminal (or marked “g,” “gr,” “ground,” “grounding” or with a ⏚ symbol) located inside the supply terminal box or compartment must be connected to the grounding connection provided in the electric supply service panel with a continuous copper wire equivalent in size to the circuit conductors supplying the equipment.
- Two lugs marked “bonding lugs” are provided inside of the supply terminal box. To reduce the risk of electric shock, connect the local common bonding grid in the area of the cover. Use terminals with an insulated or bare copper conductor not smaller than no. 6 AWG (4.11 mm / 13.30 mm^2).
- All field-installed metal components, such as rails, ladders, drains or other similar hardware, within 10 ft (3 m) of the spa must be bonded to the equipment grounding bus with copper conductors not smaller than no. 6 AWG (4.11 mm / 13.30 mm^2) (NEC art. 680).

MODIFICATIONS TO THE COVER

⚠ WARNING

Any modifications to the cover, such as mechanical, electrical or aesthetic, may cause the cover to operate in an unwanted or dangerous way. Furthermore, these modifications are not permitted and might void the warranty and certification.

REMOTE CONTROL BATTERY WARNING

⚠ WARNING

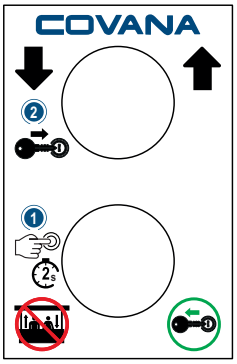
- Always insert batteries correctly with regard to polarity (+ and -) marked on the battery and the remote control.
- Do not short-circuit batteries. When the positive (+) and negative (-) terminals of a battery are in electrical contact with each other, the battery becomes short-circuited.
- Keep batteries out of the reach of children. Do not allow children to replace batteries without adult supervision.
- Do not charge batteries.
- Do not mix old an new batteries or batteries of different brands. When replacing batteries, replace both of them at the same time with new AAA batteries of the same brand.
- Exhausted batteries should be immediately removed from the remote control and recycled properly according to the local rules.
- Do not expose batteries to heat.
- Store unused batteries indoors in their original packaging and away from metal objects (do not mix or jumble batteries).
- Remove batteries from remote control if it is not to be used for an extended period of time.
- Immediately seek medical attention if a battery has been swallowed. Also contact your local poison control center.

SAVE THESE INSTRUCTIONS

LABELING

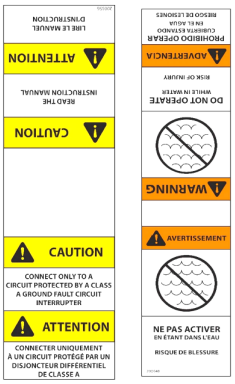
LABELING

Key switch operation diagram



➲ On the key switch

Risk of electrocution



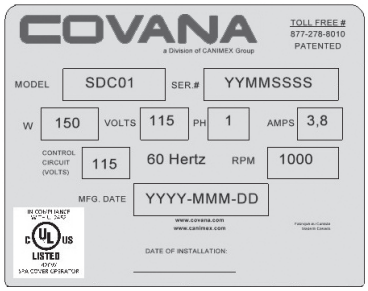
➲ On the power cable

No step



➲ On the top of
the operator cover

Technical specifications with serial number (North American models)



➲ On the operator

Proposition 65 (North American models)

CALIFORNIA PROPOSITION 65 WARNING

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

For more information: www.P65Warnings.ca.gov

➲ On the side of
the operator cover

Risk of electrocution

WARNING
RISK OF INJURY
DISCONNECT OR TURN OFF ALL POWER SUPPLY BEFORE STARTING INTERVENTION ON THE SPA COVER

AVERTISSEMENT
RISQUE DE BLESSURE
DÉBRANCHER OU COUPER L'ALIMENTATION ÉLECTRIQUE AVANT TOUTE INTERVENTION SUR LE COUVERCLE DE SPA

ADVERTENCIA
RIESGO DE LESIONES
DESCONECTAR O APAGAR LA CORRIENTE ELÉCTRICA ANTES DE COMENZAR A TRABAJAR EN LA CUBIERTA DEL SPA

➲ On the operator

Technical specifications (European models)

Model currently
in development

Maintenance information

Visit www.covana.com
for recommended maintenance
procedures and videos
This label not to be removed except by the consumer

Visitez www.covana.com
pour des conseils et des vidéos
sur les procédures d'entretien
Seul l'utilisateur peut retirer cet autocollant

MADE IN CANADA
FABRIQUÉ AU CANADA

➲ On one side of the outer shell

Avoid drowning

WARNING
AVOID DROWNING RISK. ENTRAPMENT POSSIBLE.
FAILURE TO FOLLOW ALL INSTRUCTIONS MAY RESULT IN INJURY OR DROWNING.
INSPECT COVER PERIODICALLY.
POWER SAFETY COVER MEETS ASTM F1346-23 REQUIREMENTS.
FOR FURTHER INFORMATION CONTACT: WWW.COVANA.COM

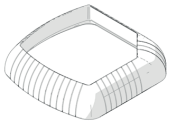
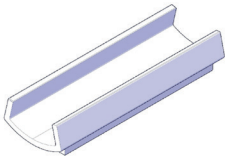
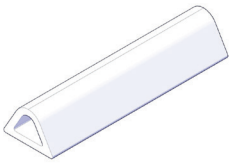
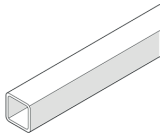
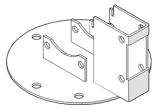
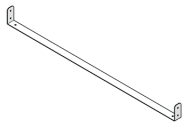
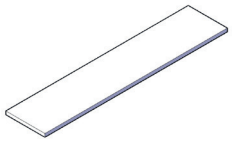
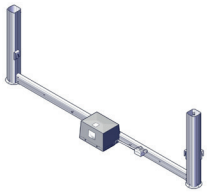
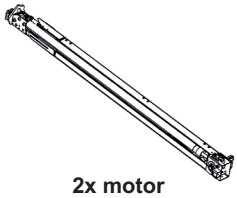
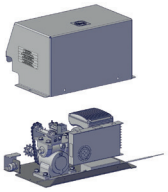
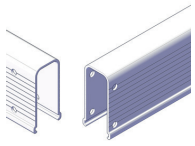
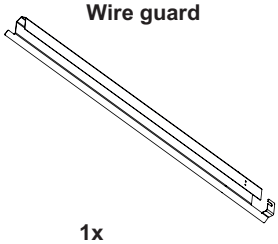
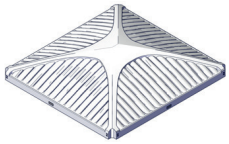
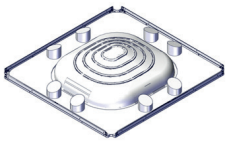
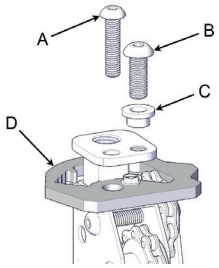
➲ On the four exterior and
interior wall faces of the cover

⚠ WARNING

REMOVING ANY LABEL ON THE COVER WILL VOID THE PRODUCT CERTIFICATION.
ALL LABELS SHOULD ALWAYS REMAIN VISIBLE.
IT IS THE OWNER'S RESPONSIBILITY TO ENSURE THAT THE LABELS ARE ALWAYS VISIBLE AND NEVER REMOVED.

PARTS

PARTS NAME AND QUANTITY

All-weather seal  **4x**	**Seal**  **1x**	**Seal clip**  **26x**	**Seal connector**  **1x**
Outer corner bracket  **4x**	**Drive shaft**  **2x**	**Foot plate**  **4x**	**U-frame link**  **1x**
Key switch  **1x**	**Foam spacer**  **8x**	**Remote control**  **1x**	**Motor frame**  **1x**
Jack  **2x motor** **2x non-motor**	**Operator**  **1x**	**Sleeves**  **4x**	**U-frame**  **2x long** **2x short**
Wire guard  **1x**	**Outer shell**  **1x**	**Inner shell**  **1x**	
 	**A: Jack lock screw** **B: Top plate screw** **C: Bushing** **D: Alignment bracket (plastic)**		

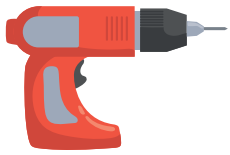
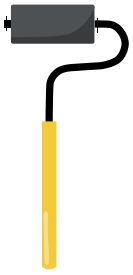
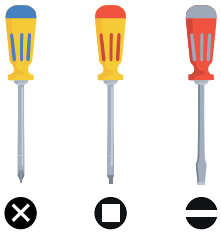
INSTALLATION AND PREPARATION

INSTALLATION PROCEDURE

⚠ CAUTION

The cover must be installed by a certified Covana installer (two people are required for certain steps). Having the cover installed by someone who is not certified will void the warranty.

TOOLS REQUIRED

Power drill 	**Rubber mallet** 	**Scissors** 	**25' (7.62 m) Measuring tape** 
24" (61 cm) level 	**SAE or metric socket kit** 	**1/2" Wrench (12.7 mm)** 	**J-Roller with rubber roller** 
Phillips/Robertson/Flat blade screwdrivers 	**No. 2 x 6" Robertson drive bit** 	**7/32" (5.5 mm) Allen key** 	**Step ladder** 
Screws to secure key switch (2x) **Key switch holes: ø 0.195"** 	**Concrete anchor bolts OR lag bolts for wood (8x)** **Bracket holes: ø 0.37"** 	**AAA batteries (2x)** 	

PREPARATION FOR THE INSTALLATION

To ensure safe use of the cover, it must be installed on a properly prepared surface (Figure 2).

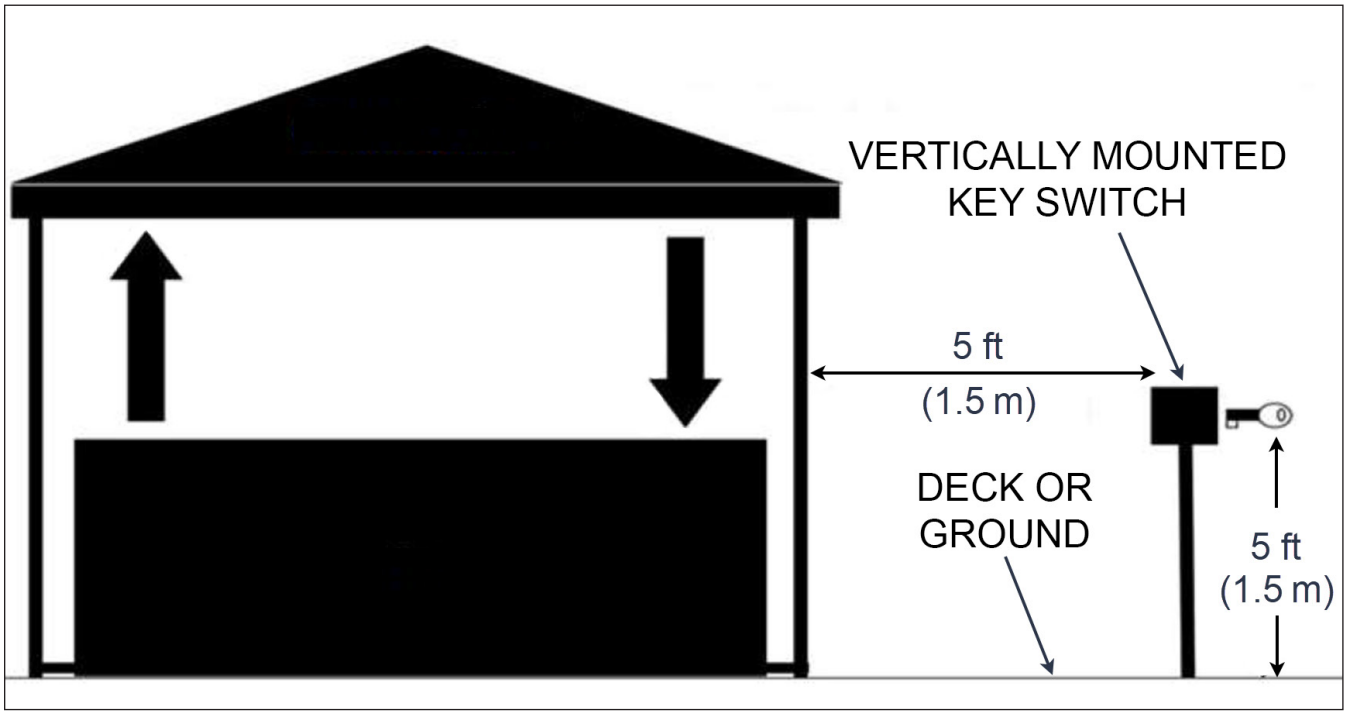


FIGURE 1: POSITION OF THE KEY SWITCH

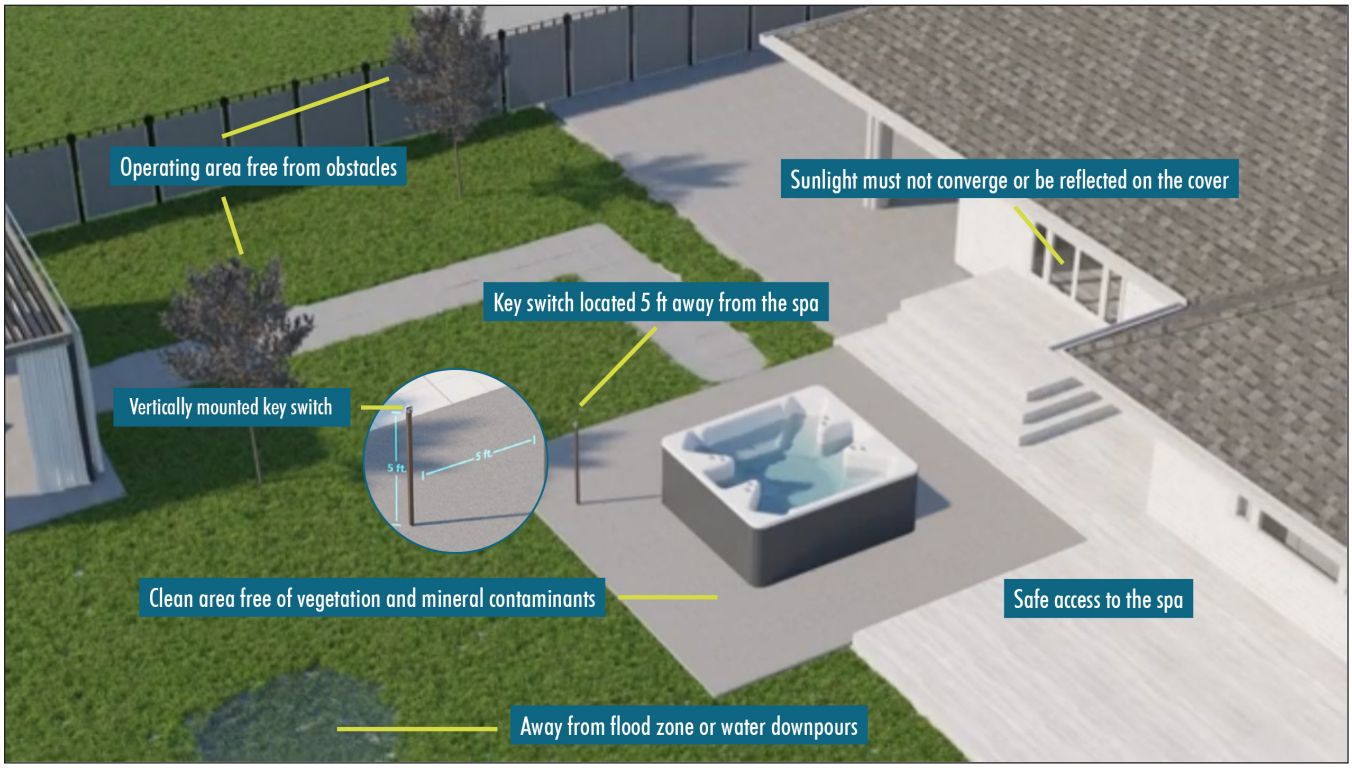


FIGURE 2: PREPARATION FOR THE INSTALLATION

FOUNDATION PREPARATION

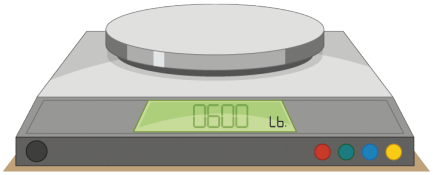
The cover requires a clean, flat and level surface such as an engineered wood deck or a concrete slab.

The four jacks must be properly anchored to the foundation. If you cannot meet this requirement, install a set of non-permanent mounting plates.

For an existing foundation, refer to the diagram in the TECHNICAL SPECIFICATIONS section.

WARNING

THE FOUNDATION MUST BE ABLE TO SUPPORT AT LEAST 600 LB. (272 KG)



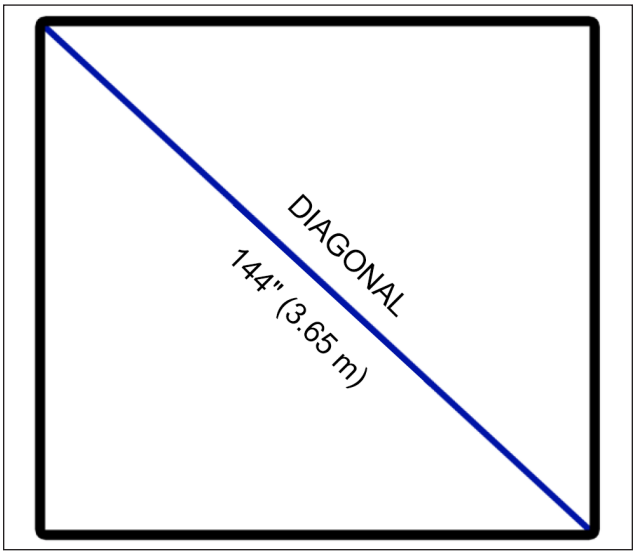
WARNING

- The foundation must be leveled with a maximum tolerance of 1" (25 mm) over a diagonal section (Figure 3). Refer to the minimum base size of the foot print in the TECHNICAL SPECIFICATIONS section.
- The annual variation in levelness for the same diagonal section cannot exceed 1/4" (6 mm).

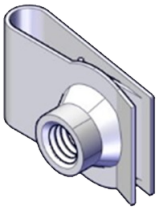
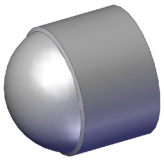
CAUTION

- Damage caused by inadequate foundation construction is not covered by the warranty. It is the responsibility of the owner to provide a proper foundation.
- Failure to follow these guidelines might cause permanent damage or improper functioning of the cover. Such damage might not be covered by the warranty.

FIGURE 3: FOUNDATION DIAGONAL

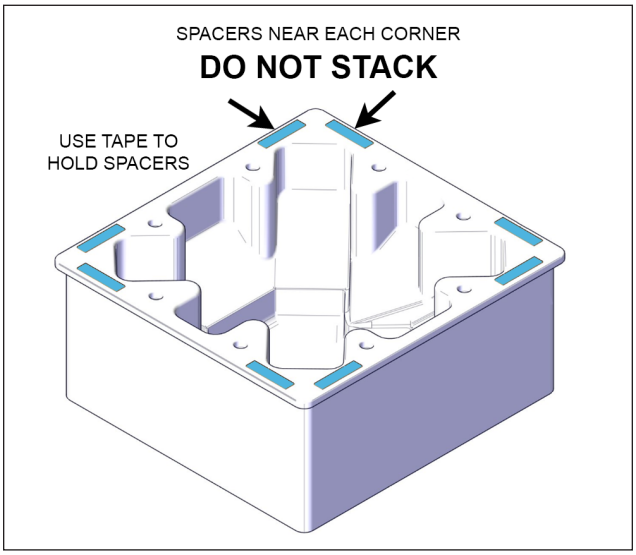


HARDWARE IDENTIFICATION TABLE

16x No. 8 x 1/2" A  188926	**18x M6 x 20 mm** B  198685	**4x 1/4-20 x 3/4"** C  202013 Slate 202014 Mocha
16x 5/16-18 x 2" D  156429	**4x 1/4-20 x 2¼"** E  188801	**2x M6** F  202159
		8x 1/4-20 **16x 5/16-18** G  213128 (1/4) 183038 (5/5/16)
32x 5/16" H  264127	**2x 1/4"** I  224035	**2x 8-32 x 3/8"** J  200368
K **18x 1/4"** 264128 L **16x No. 6-8** 264130 	M **18x 1/4"** 264129 N **16x No. 6-8** 264131 	**HARDWARE IDENTIFIED IN IMAGES THROUGHOUT INSTALLATION REFERS TO THIS PAGE** NOTE: Extra parts are included in case some break or are lost during installation

ASSEMBLY PREPARATION

FIGURE 4: INSTALL THE FOAM SPACERS



CAUTION



PLACE SPACERS ON THE FLAT TOP SURFACE OF THE SPA.

NO PROTRUDING HEADRESTS

FIGURE 5: THE COVER IS RECTANGULAR

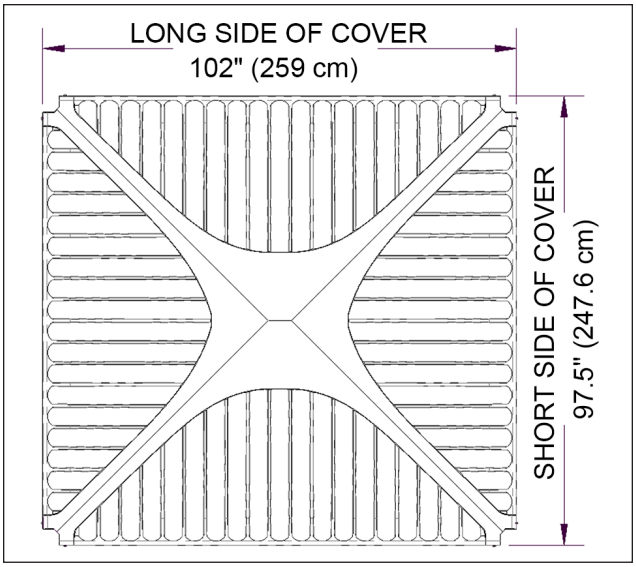
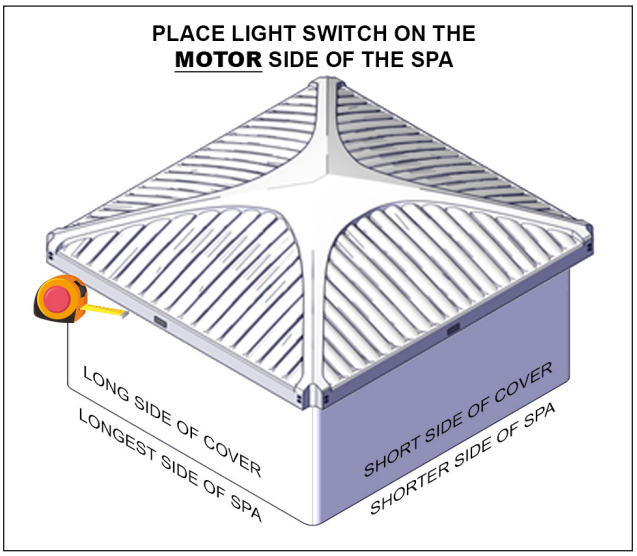


FIGURE 6: CENTER THE COVER ON THE SPA

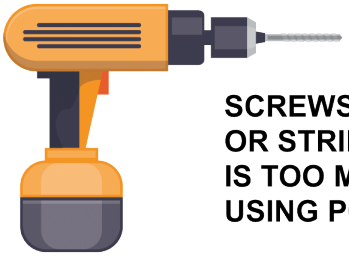


WARNING

- The cover alone weighs approximately 185 lb. (84 kg).
- When handling the cover, 2 people must support the outer and inner shells with both hands. A wide grip is best when handling the cover, as all four sides must be lifted equally.
- 3 to 4 people may be required. Remove the outer shell if the cover is too heavy to handle. Be careful not to fold the outer shell or scratch it on the inner steel frame.

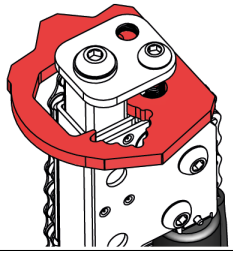
LIFTING MECHANISM INSTALLATION (PART 1)

WARNING



SCREWS MAY BREAK OR STRIP IF THE TORQUE IS TOO MUCH WHEN USING POWER TOOLS.

WARNING



DO NOT REMOVE THE ALIGNMENT BRACKET ON THE TOP OF THE JACK (PLASTIC PART).

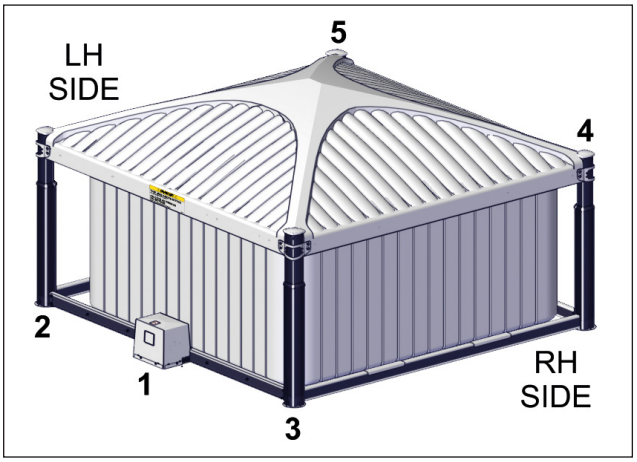
IMPORTANT NOTE

The next steps are side-specific. They are for the left-hand foot assembly (non-motor side).

Install the motor frame (usually to the opposite side of the spa entrance).

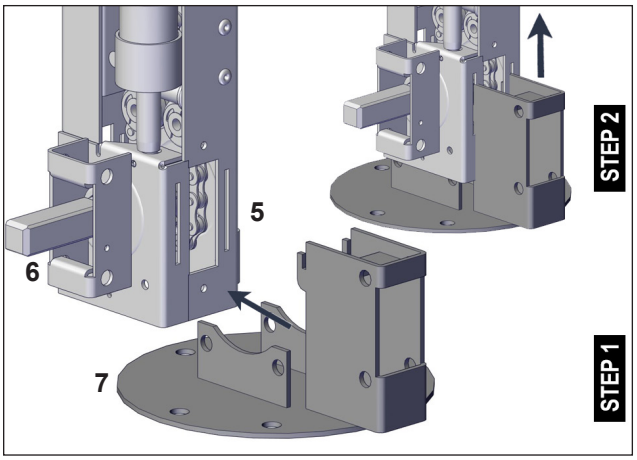
- Standard and XL models: motor frame on the short side of the cover.
- PLUS model: motor frame on the long side of the cover.

FIGURE 7: LOCATION OF THE OPERATOR AND JACKS



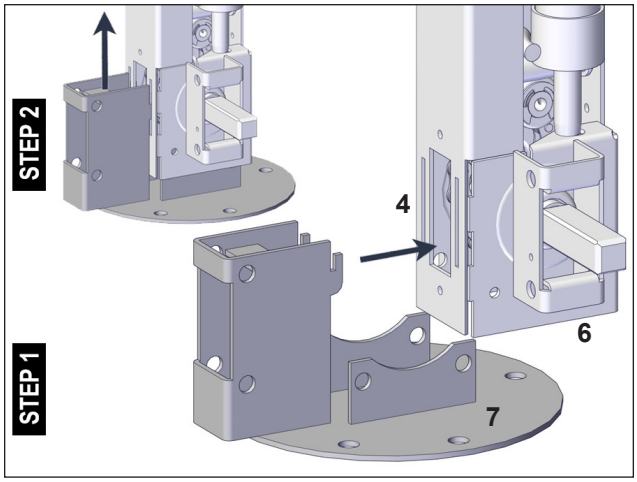
1	OPERATOR
2	LEFT-HAND JACK (MOTOR SIDE)
3	RIGHT-HAND JACK (MOTOR SIDE)
4	RIGHT-HAND JACK (NON-MOTOR SIDE)
5	LEFT-HAND JACK (NON-MOTOR SIDE)

FIGURE 8: INSTALL THE FOOT BRACKET ON THE LEFT-HAND JACK (NON-MOTOR SIDE)



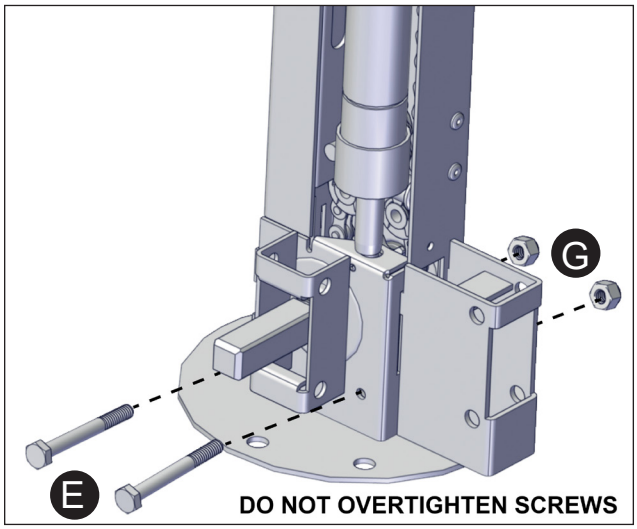
5	LEFT-HAND JACK (NON-MOTOR SIDE)
6	RIGHT-HAND SIDE OF U-FRAME
7	FOOT BRACKET

FIGURE 9: INSTALL THE FOOT BRACKET ON THE RIGHT-HAND JACK (NON-MOTOR SIDE)



4	RIGHT-HAND JACK (NON-MOTOR SIDE)
6	RIGHT-HAND SIDE OF U-FRAME
7	FOOT BRACKET

FIGURE 10: INSTALL THE SCREWS AND NUTS ON THE LEFT-HAND AND RIGHT-HAND JACKS (NON-MOTOR SIDE)



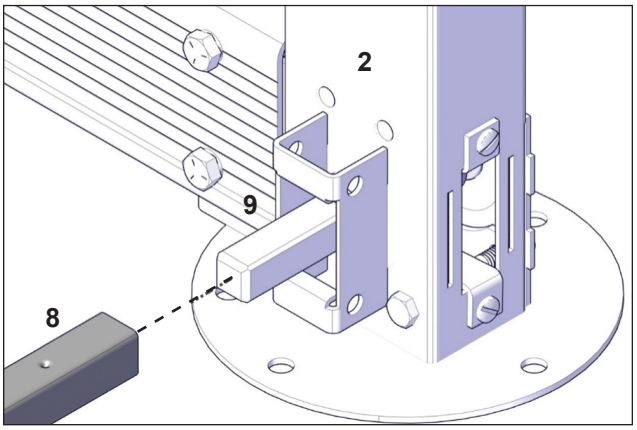
E	1/4-20 x 2¼" HEXAGONAL HEAD SCREWS
G	1/4-20 NYLON-INSERT LOCK NUTS

⚠ CAUTION

Lay the posts down before proceeding with the next step.

- Place the left-hand jack (non-motor side) in the remaining corner of the cover; the square shaft facing the motor frame, and the U-frame bracket facing inward.

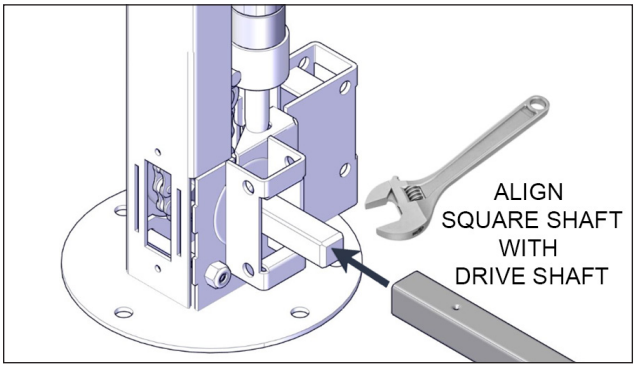
FIGURE 11: SLIDE THE DRIVE SHAFT OVER THE SQUARE SHAFT



2	LEFT-HAND JACK (MOTOR SIDE)
8	DRIVE SHAFT
9	SQUARE SHAFT

- Hold the left-hand jack (non-motor side) upright and in line with the left-hand drive shaft.

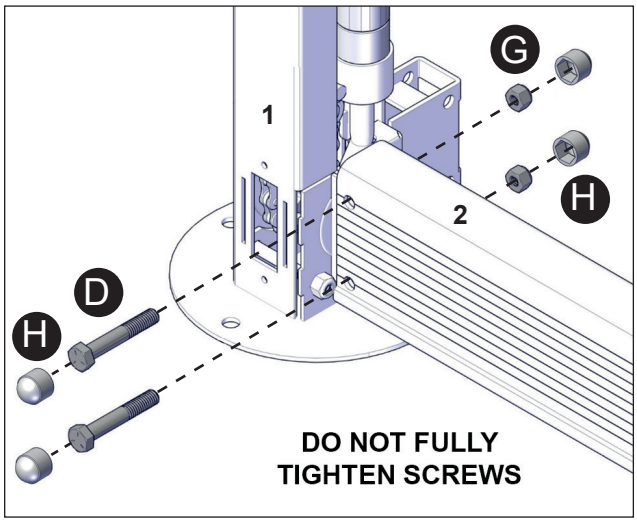
FIGURE 12: SLIDE THE DRIVE SHAFT OVER THE SQUARE SHAFT



⚠ WARNING

Using the jack without the drive shaft properly connected may cause injury.

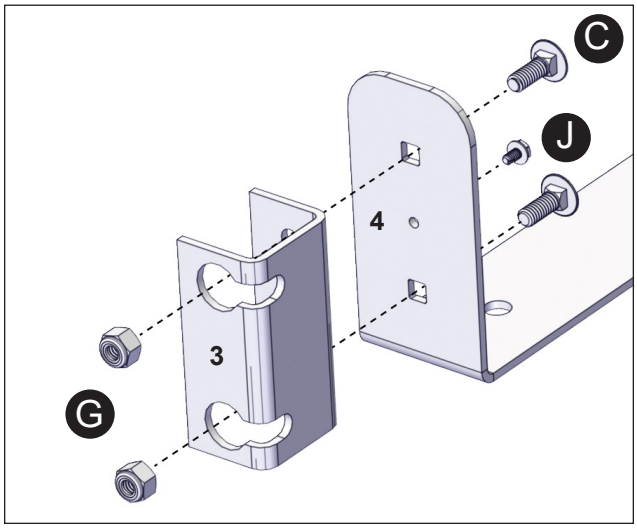
FIGURE 13: INSTALL THE LONG U-FRAME



D	5/16-18 x 2" HEX HEAD SCREWS
G	5/16-18 NYLON INSERT LOCK NUTS
H	5/16" SCREW COVER
1	JACK (NON-MOTOR SIDE)
2	LONG U-FRAME

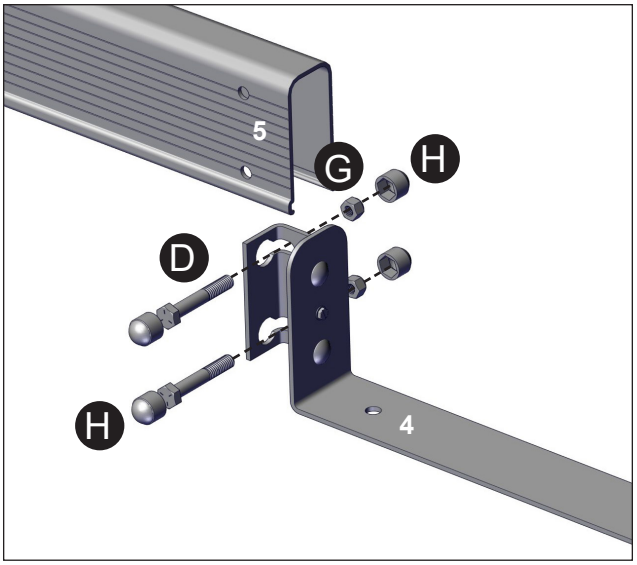
REPEAT ON THE OPPOSITE SIDE

FIGURE 14: FASTEN ONE METAL COUPLER ON EACH END OF THE SPA ENTRANCE U-FRAME LINK



C	1/4-20 x 3/4" CARRIAGE BOLT
G	5/16-18 NYLON INSERT LOCK NUTS
J	8-32 x 3/8" HEX SLOTTED THREAD-CUTTING SCREW
3	UNPAINTED METAL COUPLER
4	SPA ENTRANCE U-FRAME LINK

FIGURE 15: FASTEN A SHORT U-FRAME TO EACH END OF THE SPA ENTRANCE U-FRAME LINK

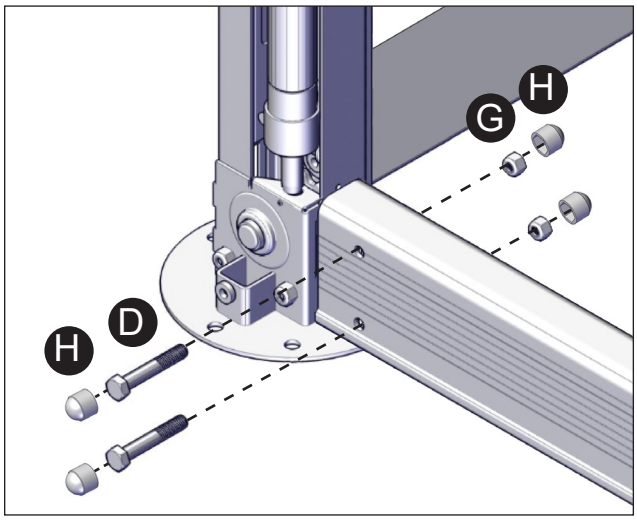


D	5/16-18 x 2" HEX HEAD SCREWS
G	5/16-18 NYLON INSERT LOCK NUTS
H	5/16" SCREW COVER
4	SPA ENTRANCE U-FRAME LINK
5	SHORT U-FRAME

FIGURE 16: SLIDE THE ASSEMBLY BETWEEN THE FRONT POSTS



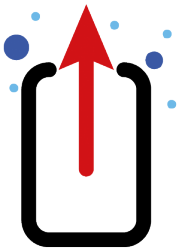
FIGURE 17: FASTEN THE ASSEMBLY TO THE FRONT POSTS



D	5/16-18 x 2" HEX HEAD SCREWS
G	5/16-18 NYLON INSERT LOCK NUTS
H	5/16" SCREW COVER

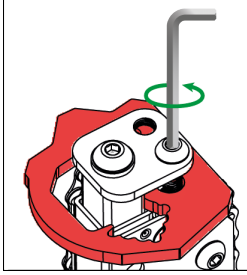
- Tighten all the U-frame screws (make sure the drive shafts didn't fall off. If so, review the previous steps).

DANGER



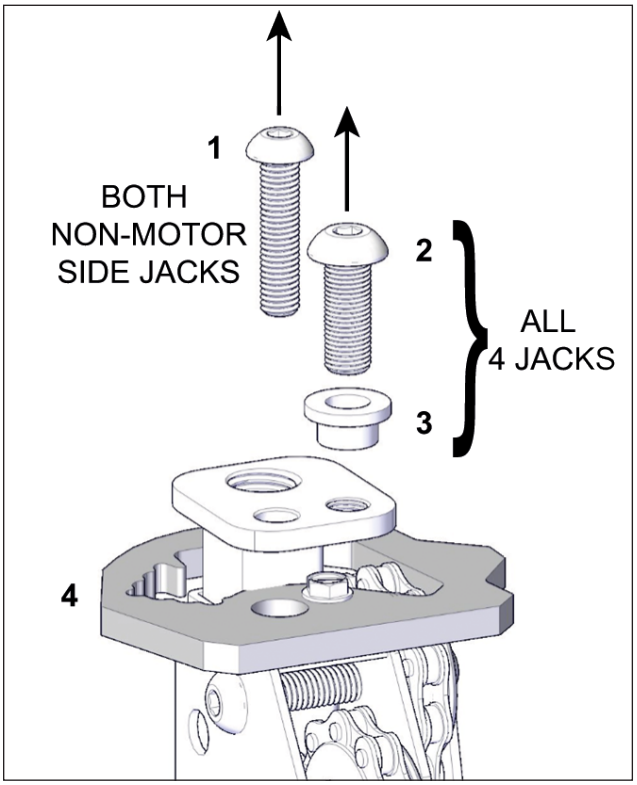
FAILURE TO VERIFY THE PROPER INSTALLATION OF THE DRIVE SHAFTS COULD RESULT IN THE NON-MOTOR-SIDE JACKS EXTENDING ON THEIR OWN.

CAUTION



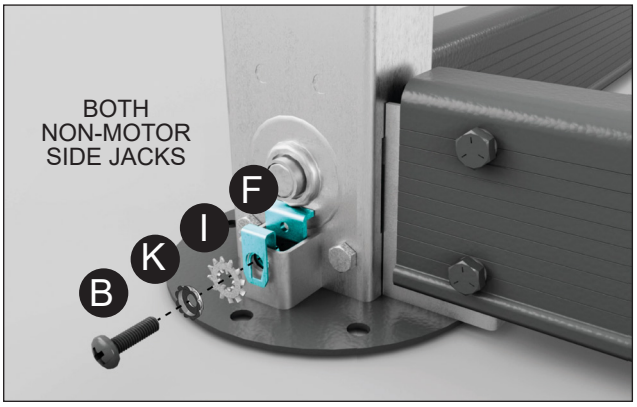
FAILURE TO REMOVE THE LOCKING SCREWS WILL DAMAGE THE LIFTING MECHANISM WHEN OPERATING.

FIGURE 18: REMOVE THE JACK LOCK SCREW (1), SOCKET SCREW (2) AND BUSHING (3). KEEP THEM FOR FUTURE USE



1	M8 x 50 mm JACK LOCK SCREW
2	3/8" x 1" SOCKET HD SCREW
3	BUSHING
4	ALIGNMENT BRACKET (PLASTIC)

FIGURE 19: INSTALL THE CLIP-ON BARREL NUT



B	M6 x 20 mm SCREW **(do NOT fully screw)**
F	CLIP-ON BARREL NUT
I	1/4" INT./EXT. TOOTH LOCKWASHER
K	1/4" SCREW BASE

FIGURE 20: SLIDE THE SLEEVES OVER THE FOUR JACKS

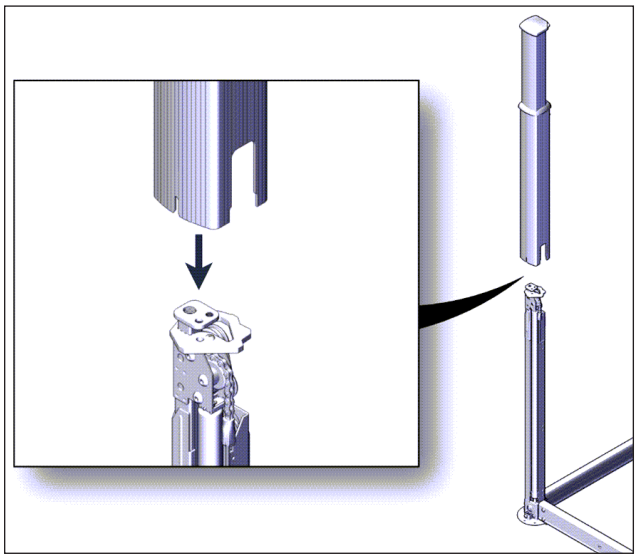
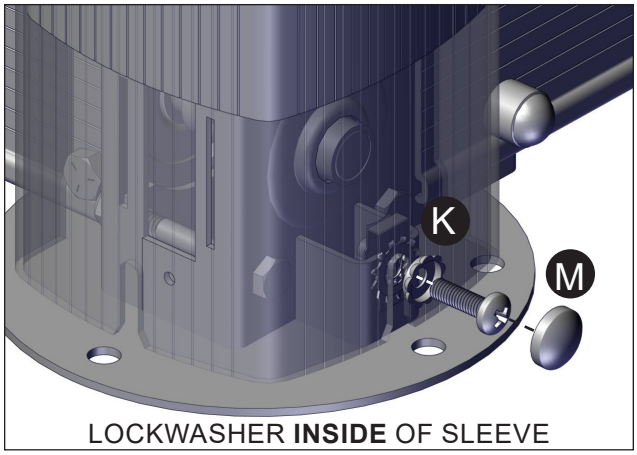
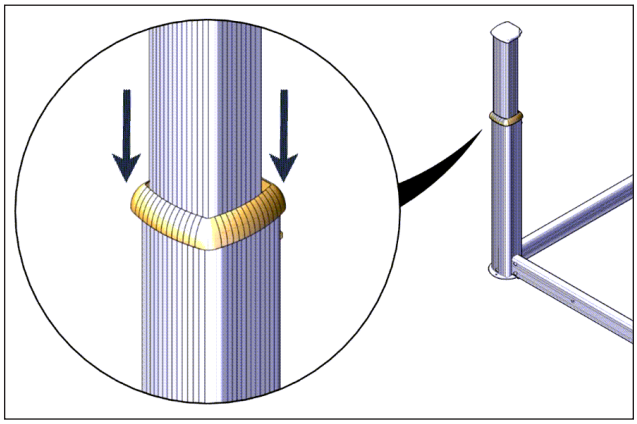


FIGURE 21: TIGHTEN THE SCREW ON EACH SLEEVE. ENSURE THAT THE LOCKWASHER IS POSITIONED BETWEEN THE CLIP-ON BARREL NUT AND THE SLEEVE. THEN INSTALL THE SCREW COVER



M	1/4" SCREW COVER
K	1/4" SCREW BASE

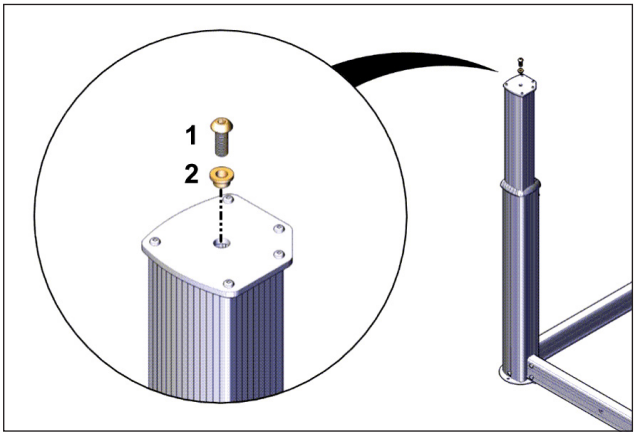
FIGURE 22: SLIDE THE SLEEVE SEAL DOWN ON EACH OUTER SLEEVE



⚠ WARNING

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

FIGURE 23: INSTALL THE 3/8" X 1" SCREW AND BUSHING



1	3/8" x 1" SOCKET HD SCREW
2	BUSHING

FIGURE 24: CENTER THE COVER

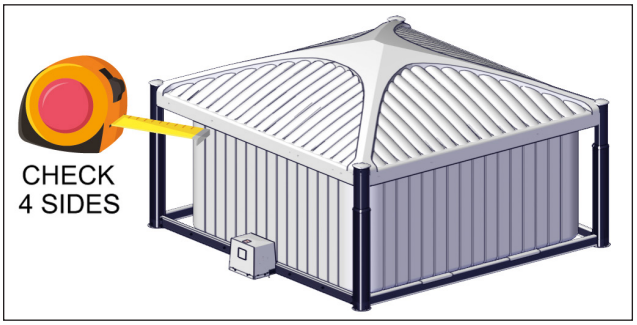
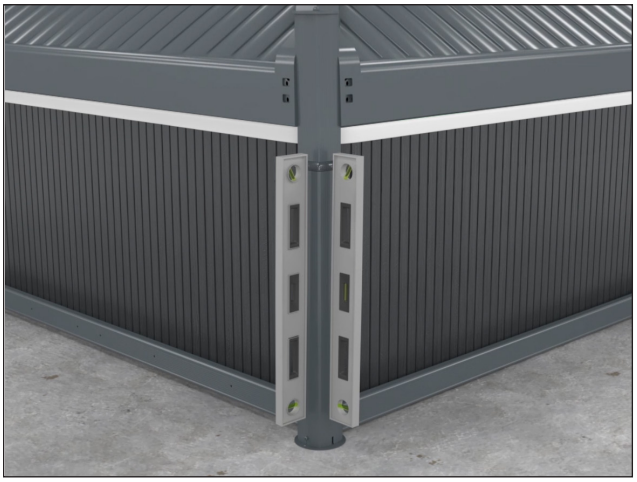


FIGURE 25: ENSURE THE POSTS ARE LEVEL



AC LIGHTING SYSTEM

NOTE

Ensure the light push-button located on the inner shell is positioned on the motor side.

FIGURE 26: LOOSEN THE U-FRAME UPPER SCREW (LEFT-HAND JACK – MOTOR SIDE)

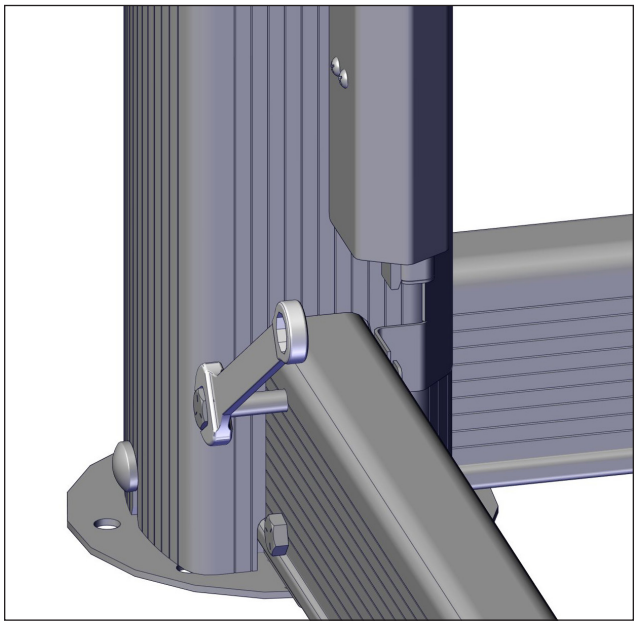


FIGURE 27: INSERT THE SLOT OF THE WIRE GUARD OVER THE LOOSEN SCREW

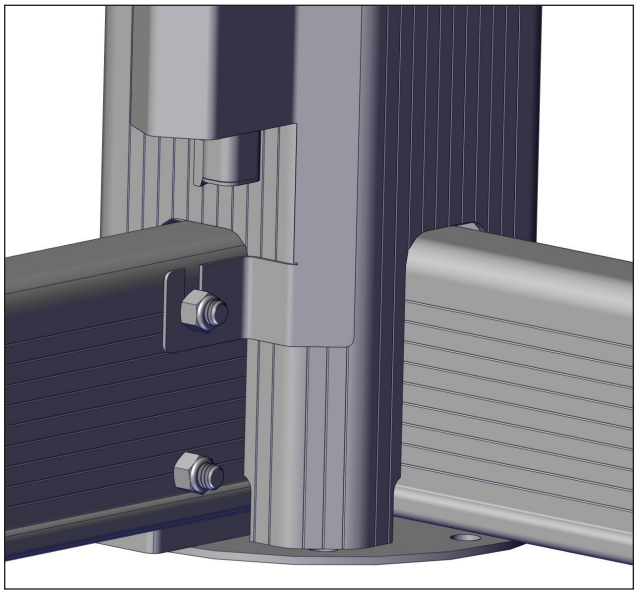


FIGURE 28: INSERT THE TAB OF THE WIRE GUARD BEHIND THE PLASTIC HOLDER

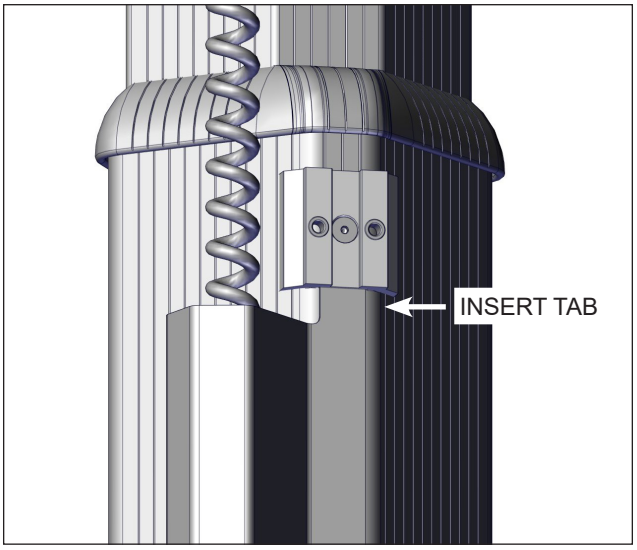


FIGURE 29: TIGHTEN THE SCREW ON THE U-FRAME

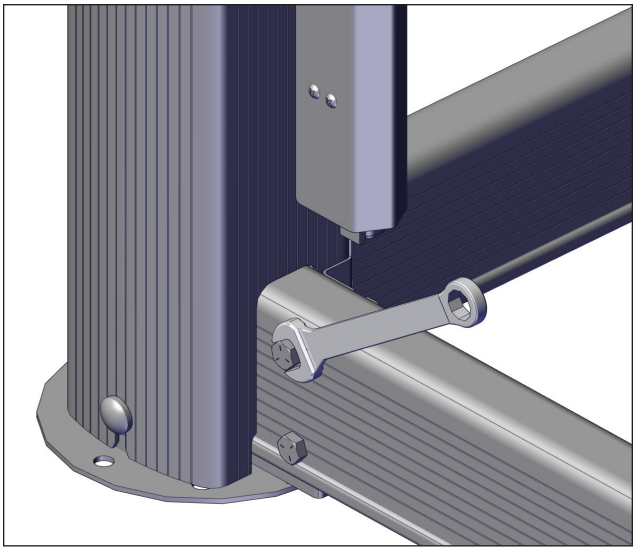
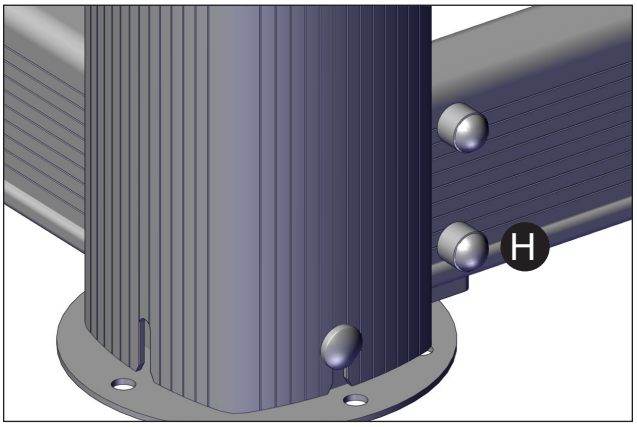


FIGURE 30: INSTALL SCREW COVERS ON BOTH ENDS OF EACH U-FRAME (OVER THE SCREW HEAD AND NUT)



H	5/16" SCREW COVER

FIGURE 31: CONNECT THE COILED WIRE TO THE CONNECTOR LOCATED ON THE INNER SHELL

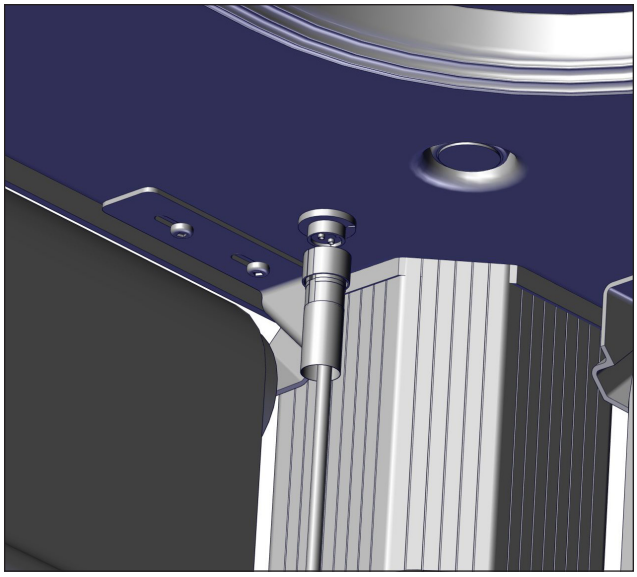
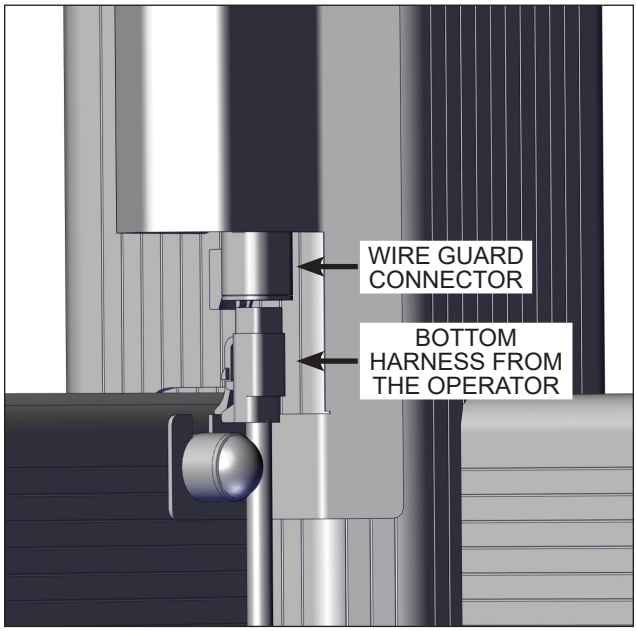
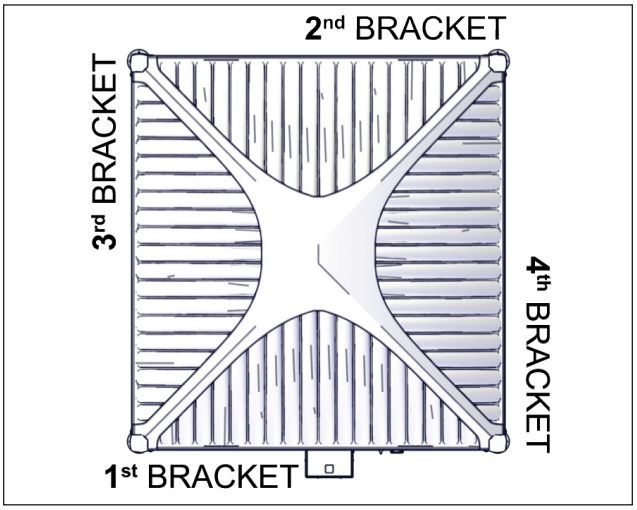


FIGURE 32: CONNECT THE BOTTOM HARNESS TO THE WIRE GUARD CONNECTOR



LIFTING MECHANISM INSTALLATION (PART 2)

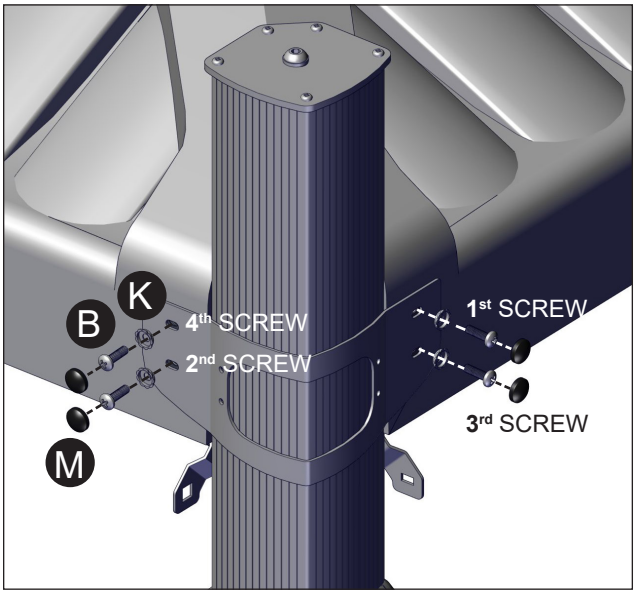
FIGURE 33: INSTALL THE OUTER CORNER BRACKETS FOLLOWING THE PATTERN SHOWN



⚠ WARNING

Make sure the sleeve is correctly pressed against the outer shell before installing the screws.

FIGURE 34: INSTALL THE CORNER BRACKET SCREWS FOLLOWING THE PATTERN SHOWN. THEN INSTALL THE SCREW BASES AND SCREW COVERS



B	M6 x 20 mm SCREWS
K	1/4" SCREW BASE
M	1/4" SCREW COVER

CAUTION

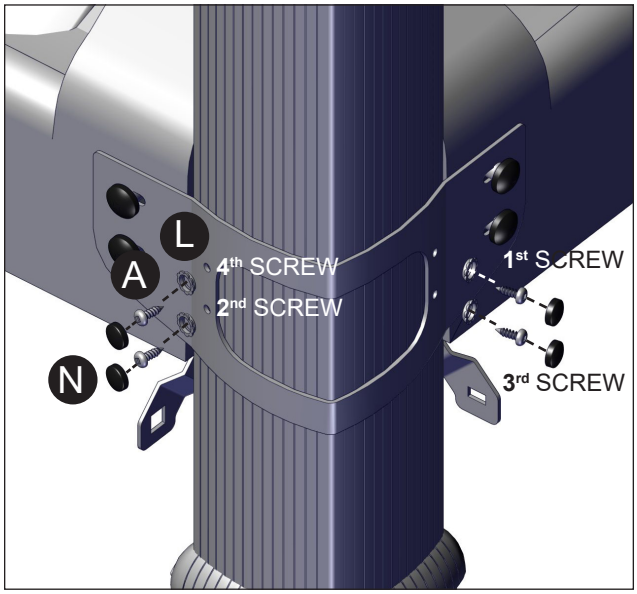


CHECK IF THE POSTS ARE LEVEL BEFORE DRIVING IN THE SCREWS; IT IS VERY DIFFICULT TO REPOSITION THE SLEEVES ONCE SCREWED.

NOTE

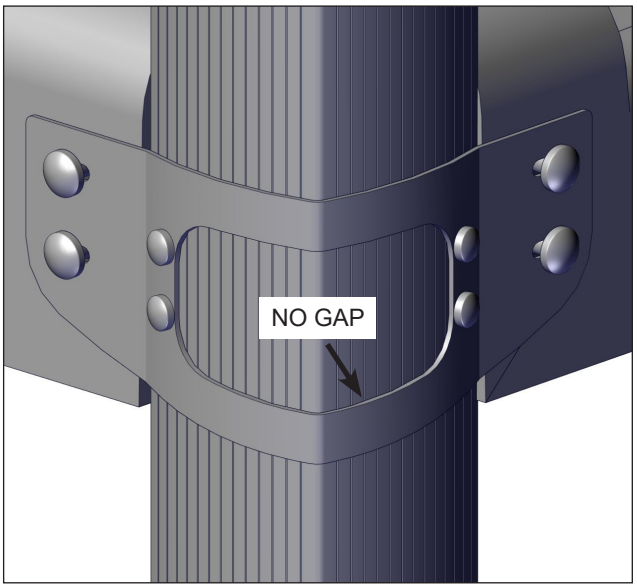
When fastening in the screws, push the post towards the cover for a better fit of the corner bracket.

FIGURE 35: INSTALL THE CORNER BRACKET SCREWS FOLLOWING THE PATTERN SHOWN. THEN INSTALL THE SCREW BASES AND SCREW COVERS



A	No. 8 x 1/2" SELF-TAPPING SCREWS
L	No. 6-8 SCREW BASE
N	No. 6-8 SCREW COVER

FIGURE 36: AVOID ANY GAP



REPEAT THIS PROCESS FOR THE REMAINING THREE CORNERS

FIGURE 37: INSTALL THE RUBBER CAP ON EACH POST

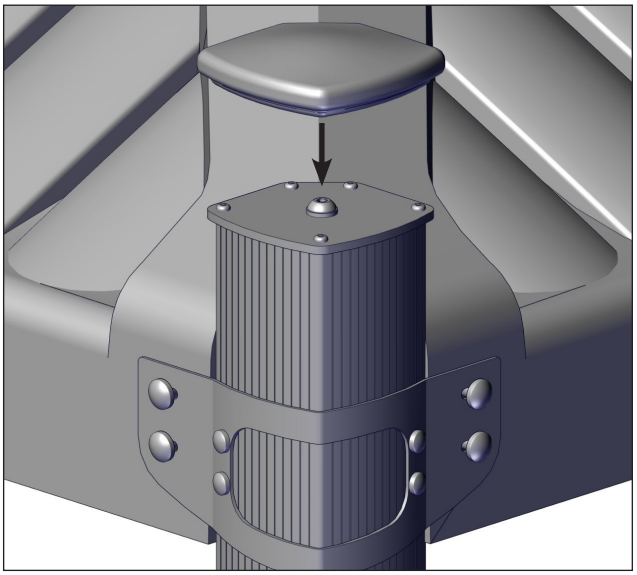


FIGURE 38: REFER TO THE PAIRING REMOTE CONTROL SECTION TO PAIR THE REMOTE CONTROL WITH THE LIGHT



TESTING THE COVER

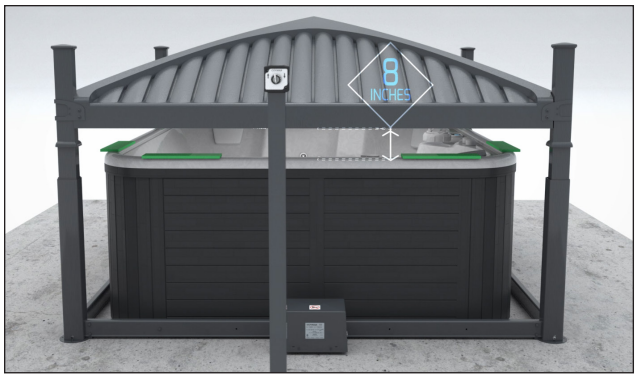
- Plug in the cover.

> ***NOTE***
>
> *Press and hold the key switch button for 2 seconds and then turn the key.*

FIGURE 39: NO OBJECT ALLOWED ABOVE THE COVER (SEE THE LIMIT SWITCH ADJUSTMENT SECTION)



FIGURE 40: RAISE 8" — MAKE SURE THE COVER LIFTS EVENLY



- Check the installation of the brackets by trying to lift each sleeve. Review LIFTING MECHANISM INSTALLATION (PART 2) for any broken screws or to retighten screws if the sleeve keeps moving (Figure 41).

FIGURE 41: CHECK THE BRACKET INSTALLATION

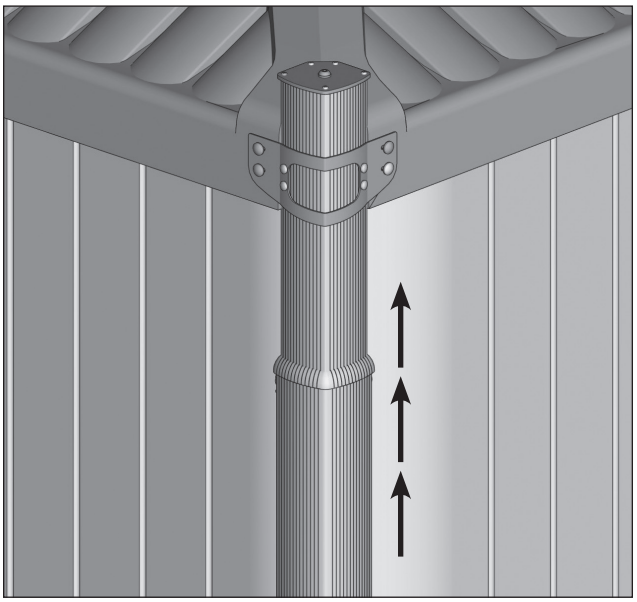


FIGURE 42: LOWER THE COVER, IT MUST TOUCH THE FOAM SPACERS



FIGURE 43: RAISE THE COVER, LISTEN FOR UNUSUAL SOUNDS

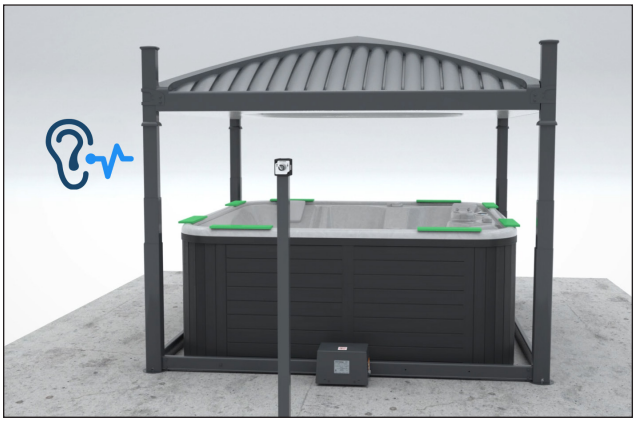


FIGURE 44: LOWER THE COVER AND MAKE SURE IT TOUCHES THE FOAM SPACERS. IF NOT, ADJUST THE CORNER BRACKETS

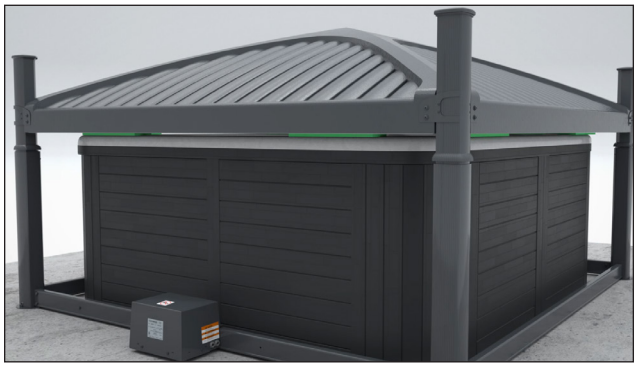
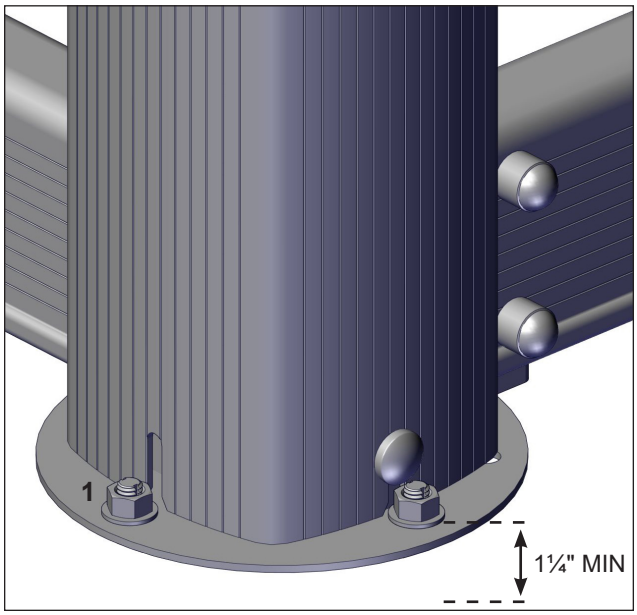


FIGURE 45: CHECK IF THE POSTS ARE STILL LEVEL



FIGURE 46: ANCHOR THE JACKS TO THE FOUNDATION (IN AT LEAST ONE HOLE IN THE FOOT) AND INSERT AT LEAST 1¼" DEEP



1	1/4" CONCRETE ANCHOR BOLT **OR** 1/4" LAG BOLT FOR WOOD FOUNDATION

FIGURE 47: IF ANCHORING THE JACKS IS NOT FEASIBLE, INSTALL THE OPTIONAL NON-PERMANENT MOUNTING PLATES

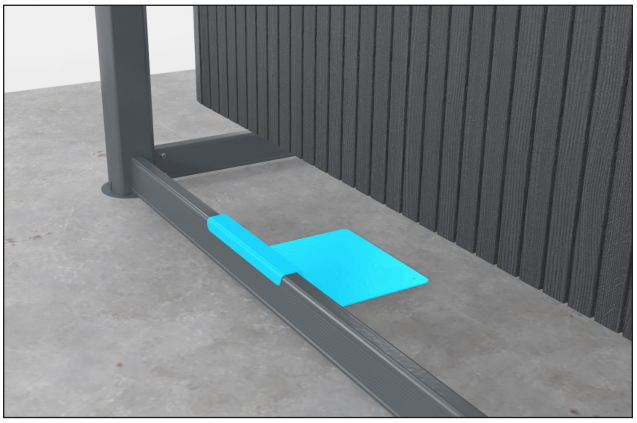


FIGURE 48: RAISE THE COVER TO MAKE SURE THE LIGHTS CAN BE CONTROLLED WITH THE REMOTE CONTROL



KEY SWITCH INSTALLATION

⚠ DANGER

- The key switch must be:

  Permanently mounted 5 ft away from the spa and 5 ft above the deck or ground level.

  Vertically mounted in a location where no water downpour or debris could fall on it.

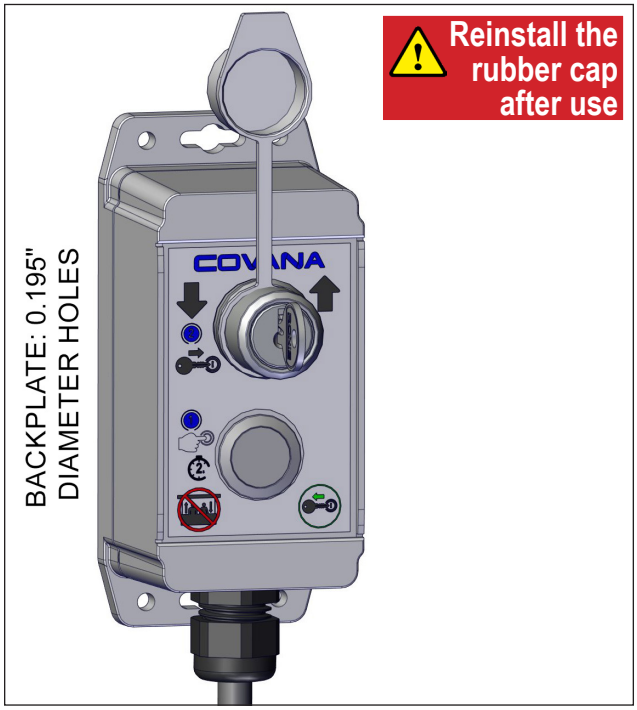
- Failure to properly install the key switch according to these instructions could result in injury or even death.

⚠ WARNING



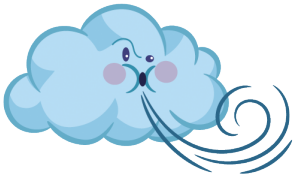
WHEN OPERATING THE COVER, THE USER MUST ALWAYS HAVE A CLEAR VIEW OF THE COVER AND ITS SURROUNDINGS.

FIGURE 49: FASTEN THE BACKPLATE OF THE KEY SWITCH WITH TWO SCREWS (NOT INCLUDED)



NON-PERMANENT MOUNTING PLATES (OPTIONAL)

WARNING



THE PLATES CAN ONLY BE USED IN AREAS WITH LOW WINDS; <30 MPH (50 KM/H) IN OPEN POSITION.

CAUTION



3 INSTALLERS ARE REQUIRED TO INSTALL THE NON-PERMANENT MOUNTING PLATES.

- Raise the cover to slightly lift the spa.
- Two installers must lift the spa at one end, 4" off the ground, while the third installer slips the mounting plate under the spa and hooks it over the U-frame. Two plates must be installed on each side.

FIGURE 50: INSTALL THE PLATES AS CLOSE AS POSSIBLE TO THE CORNERS

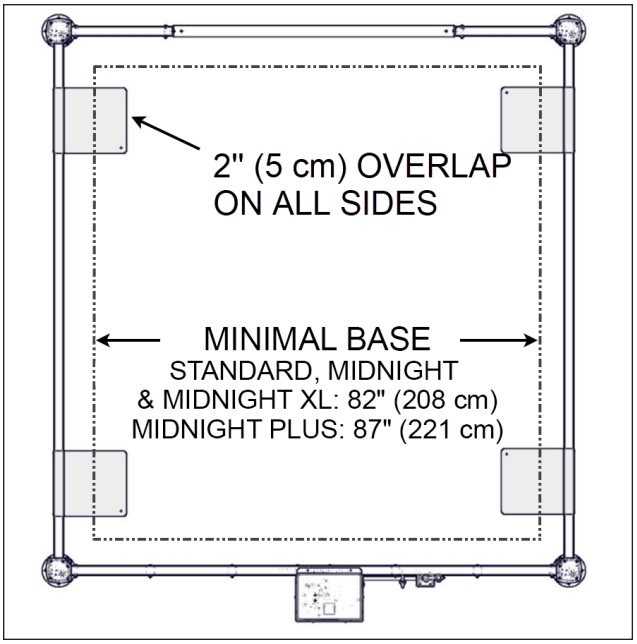
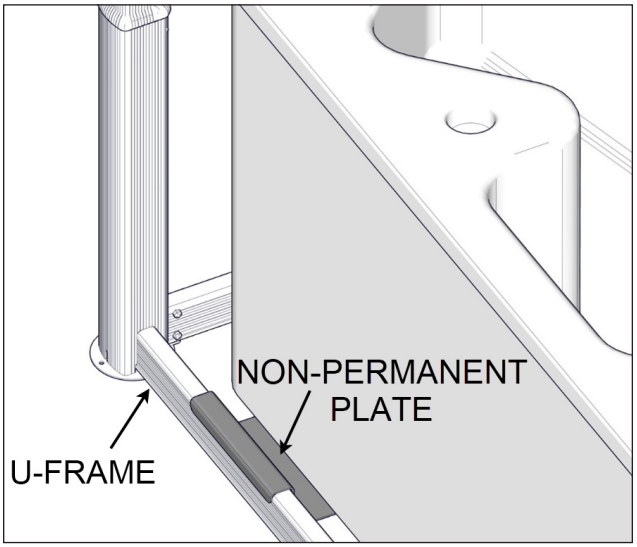


FIGURE 51: HOOK THE PLATES OVER THE U-FRAMES



SEAL INSTALLATION

CAUTION



THE RECOMMENDED TOOL TO INSTALL THE SEAL IS A J-ROLLER WITH RUBBER ROLLER.

IT MUST BE FREE OF SCRATCHES, CLEAN AND NON-ABRASIVE.

COVANA PART NO. 239693 (NOT INCLUDED)

CAUTION

- A path at least 1" (2.5 cm) wide all around the perimeter of the spa is necessary to install the seal.
- Install the seal when the ambient temperature is above 50 °F (10 °C).
- Reduce the water vapor steam generated by the spa (turn off the recirculation pump and set the temperature of the water between 2° and 5° under the ambient temperature). Wait for the water to reach the ambient temperature.

FIGURE 52: RAISE THE COVER AND REMOVE THE FOAM SPACERS AND TAPE

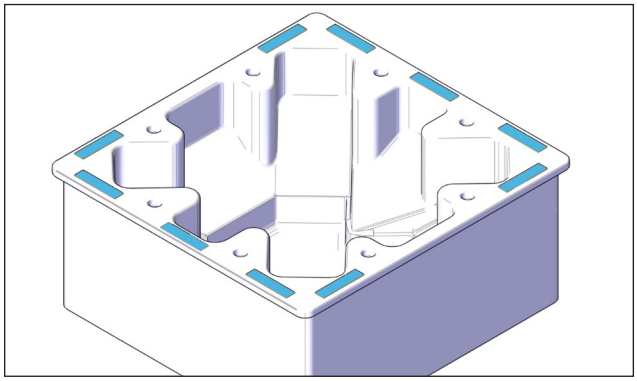


FIGURE 53: DRY TOP OF SPA AND UNDERSIDE OF COVER

CAUTION



THE TOP EDGES OF THE SPA MUST BE 100% DRY AND CLEAN. IF NECESSARY, USE ISOPROPYL ALCOHOL (IPA).

FIGURE 54: APPLY MASKING TAPE CLOSE TO THE INTERIOR EDGE OF THE SPA, ON A FLAT SURFACE

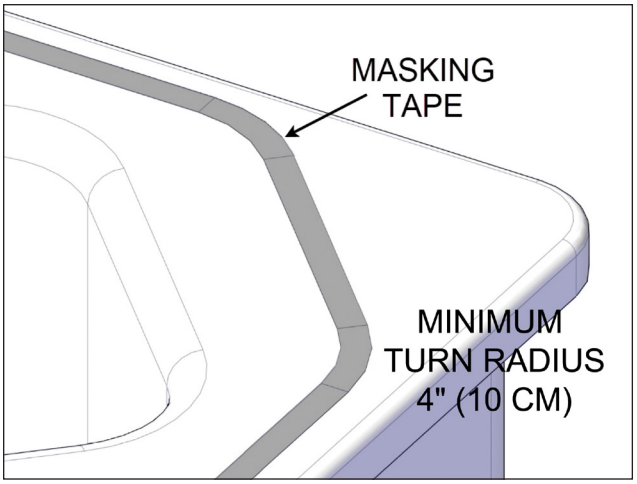
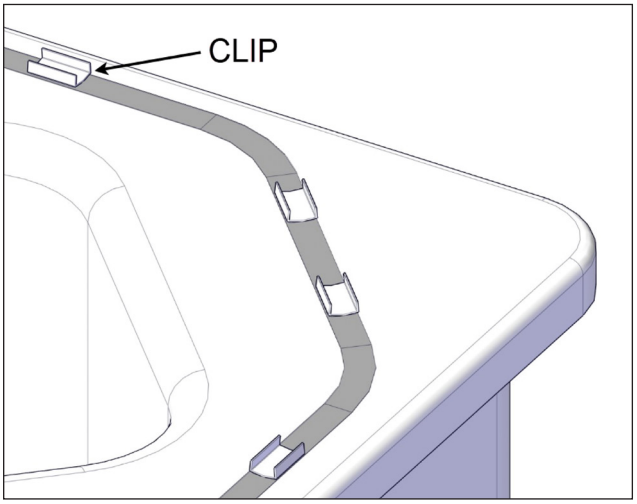


FIGURE 55: DISTRIBUTE THE CLIPS AROUND THE SPA (USE 2 FOR THE JOINT ON THE OPPOSITE SIDE FROM THE SPA ENTRANCE). ONCE THE DISTRIBUTION IS DONE, STICK THEM IN PLACE



CAUTION

Do not install the seal joint near a control system or critical components of the spa.

FIGURE 56: INSTALL THE SEAL IN THE CLIPS WITH THE ADHESIVE LAYER FACING UP

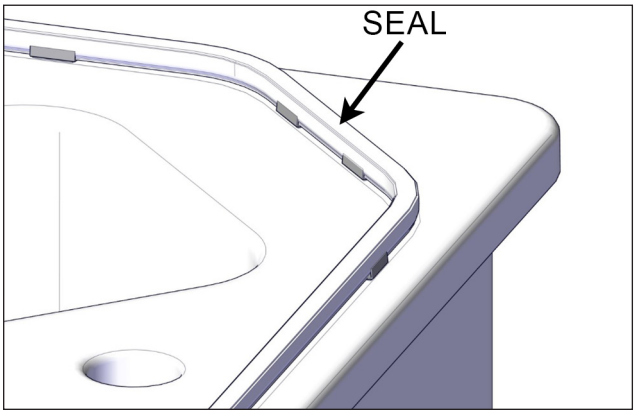
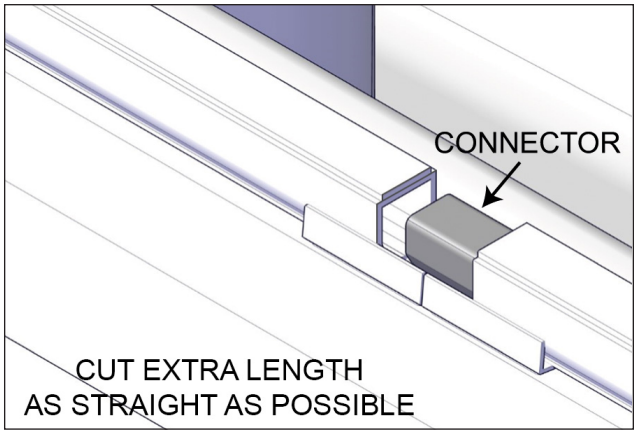


FIGURE 57: INSERT THE CONNECTOR IN BOTH ENDS OF THE SEAL



⚠ WARNING

- If there is no water in the spa and the ambient air temperature is below 50 °F (10 °C), a heater must be installed **on a pedesta**l inside the spa.
- Do not directly heat the acrylic or the seal, as this may cause permanent damage.
- Once the heater is in the spa, lower the cover until it touches the seal. Regularly check the interior air temperature and do not let it reach temperatures above 104 °F (40 °C). After 10 to 15 minutes, remove the heater.
- Make sure that the air temperature in the spa is still between 68 °F and 104 °F (20 °C and 40 °C) before proceeding to the next steps.

FIGURE 58: LOWER THE COVER 1/4" OVER THE SEAL TO TEST THE SEAL PLACEMENT

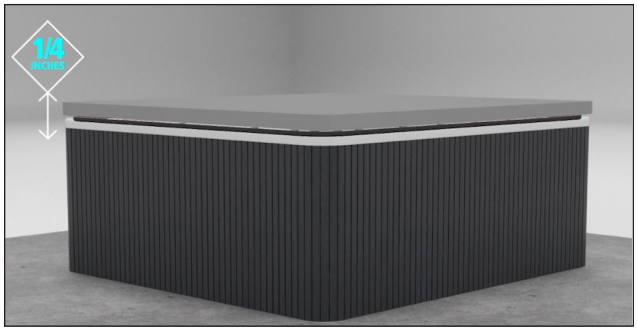


FIGURE 59: PEEL OFF THE RED BACKING FROM THE SEAL

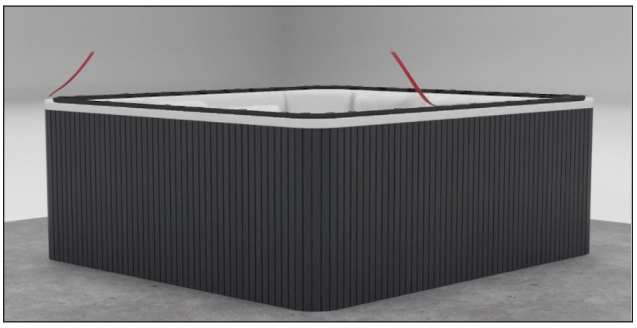


FIGURE 60: COMPLETELY LOWER THE COVER FOR AT LEAST 5 MINUTES

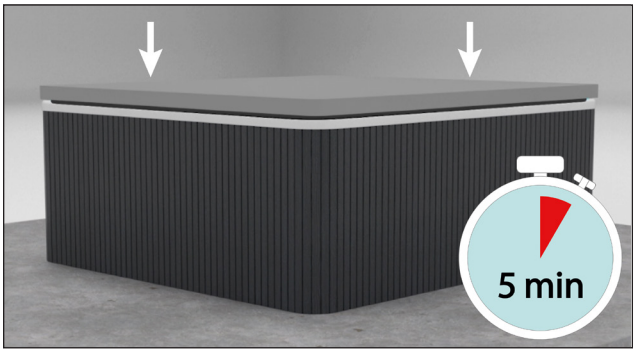


FIGURE 61: RAISE THE COVER 1/4" TO RELEASE THE SEAL FROM THE CLIPS

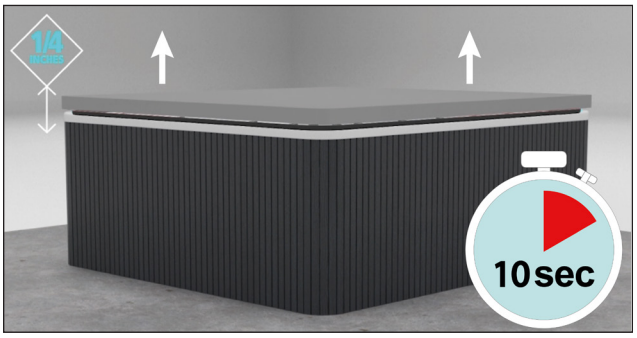


FIGURE 62: WHEN THE SEAL IS RELEASED, RAISE THE COVER 36" ABOVE THE SPA



FIGURE 63: APPLY 15 PSI PRESSURE WITH A J-ROLLER

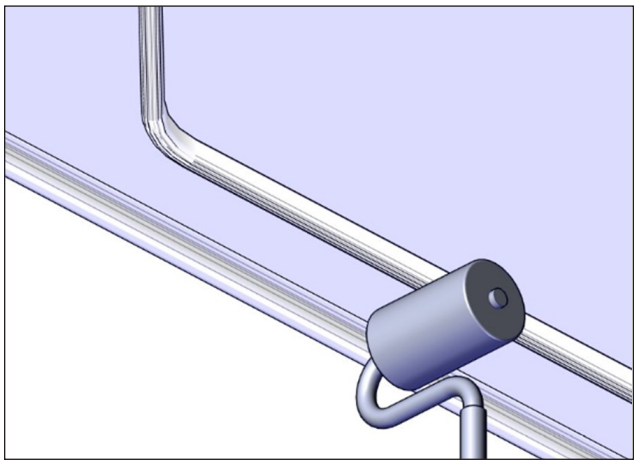


FIGURE 64: REMOVE THE CLIPS AND TAPE

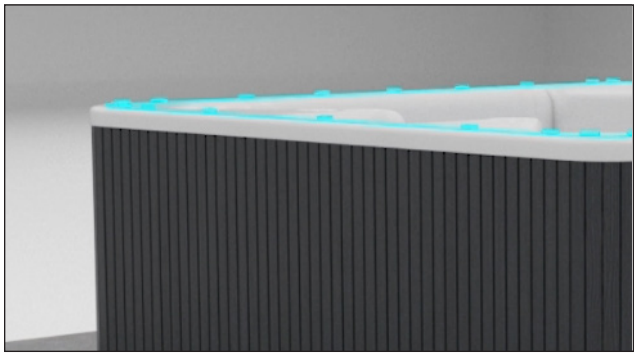


FIGURE 65: LOWER THE COVER 6" ABOVE THE SPA TO ENSURE THE CORNERS ARE AT THE SAME HEIGHT



FIGURE 66: LOWER THE COVER AND CHECK IF THE SEAL IS TOUCHING ALL AROUND THE SPA

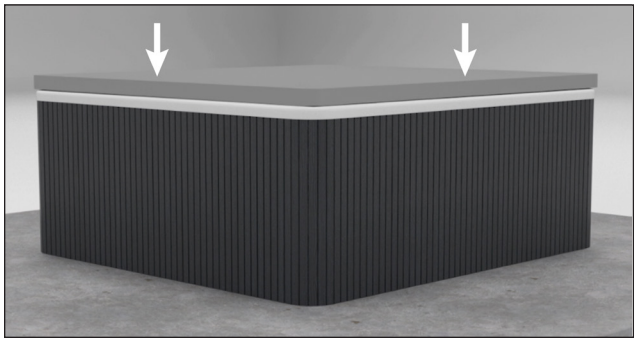


FIGURE 67: LEAVE THE COVER COMPLETELY CLOSED FOR AT LEAST 24 HOURS

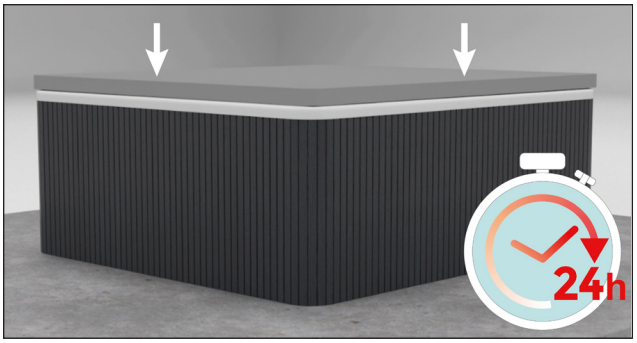


FIGURE 68: WRITE THE DATE OF INSTALLATION ON THE OPERATOR LABEL

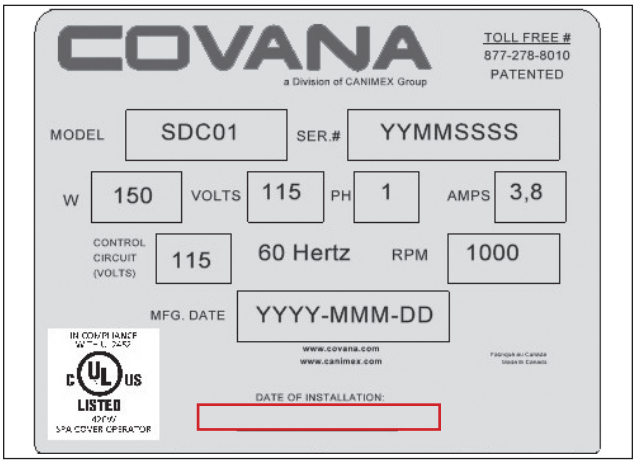


FIGURE 69: ATTACH THE YELLOW TAG TO THE COVANA KEY RING



- Complete the Customer's installation checklist as well as the Installer's installation checklist found on the following pages of this manual.

ELECTRICAL CONNECTIONS

GROUNDING AND POWER SUPPLY CONNECTIONS

- Remove the four screws from the bottom of the operator cover, then remove the cover.
- For the complete wiring diagrams refer to the ELECTRICAL DIAGRAMS section.

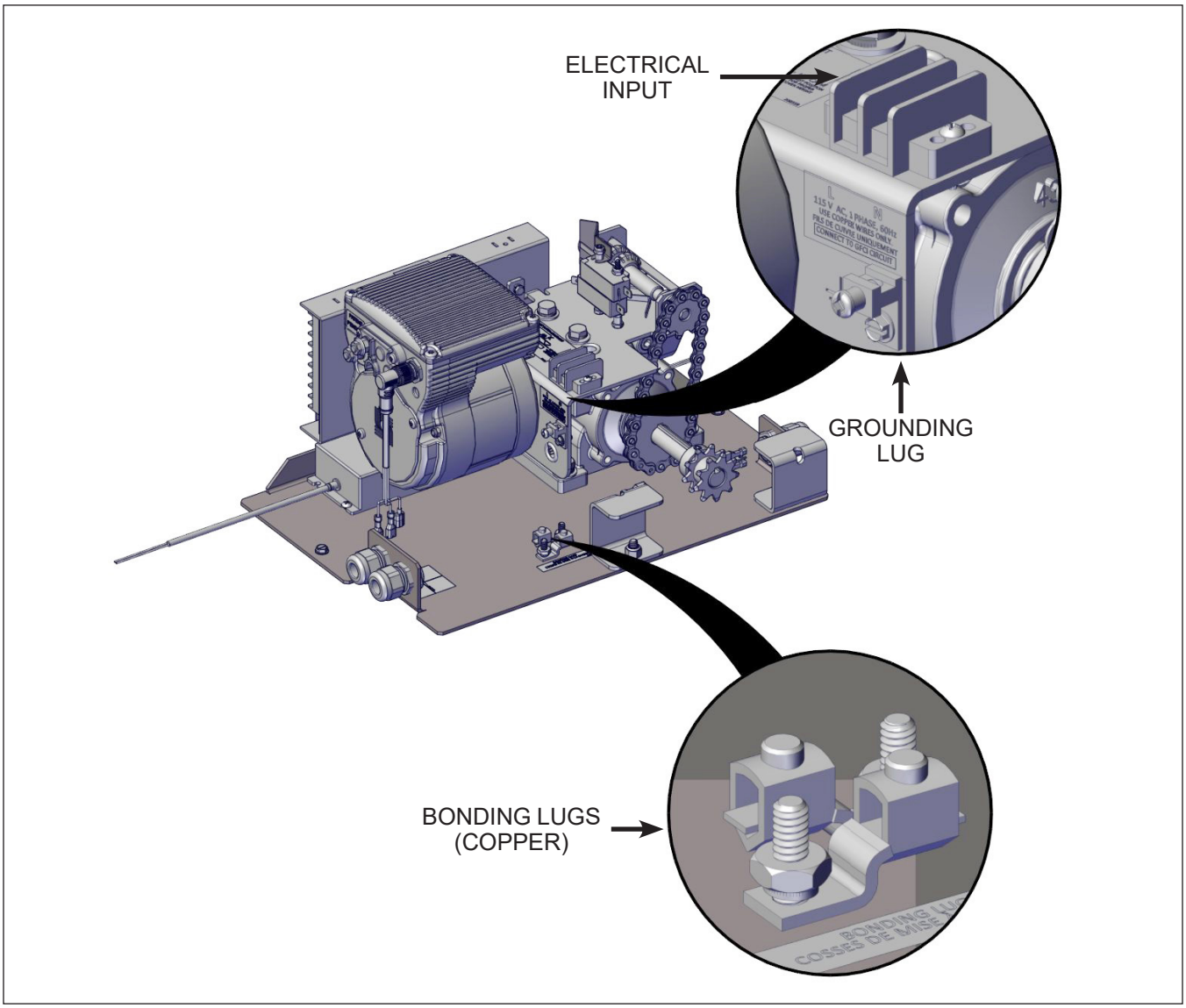
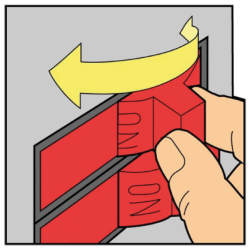


FIGURE 70: POWER SUPPLY CONNECTIONS

LIMIT SWITCH ADJUSTMENT

WARNING



DISCONNECT OR TURN OFF POWER SUPPLY BEFORE STARTING ANY WORK ON THE COVER. ALL ELECTRICAL WORK SHOULD BE PERFORMED BY A QUALIFIED ELECTRICIAN.

WARNING

Both limit switches have been factory-adjusted. If adjustments are required to ensure the cover does not come in contact with surrounding obstacles, the maximum height may be reduced. **Never change the factory setting of the lower limit nor increase the upper limit beyond the factory setting.**

FIGURE 71: REMOVE THE OPERATOR COVER

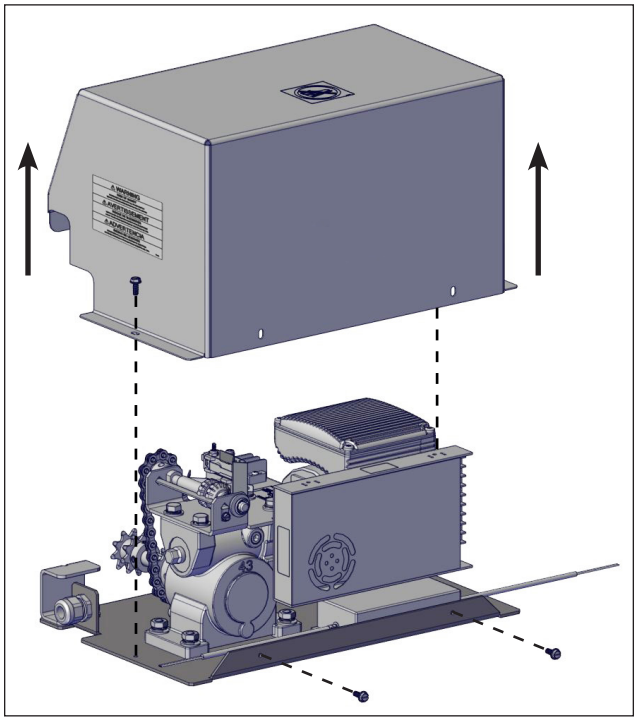
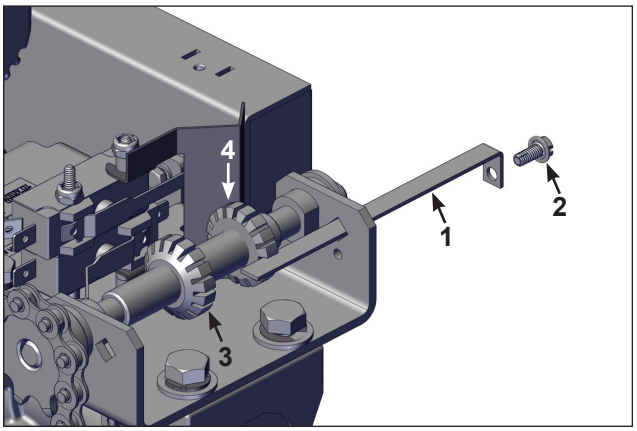


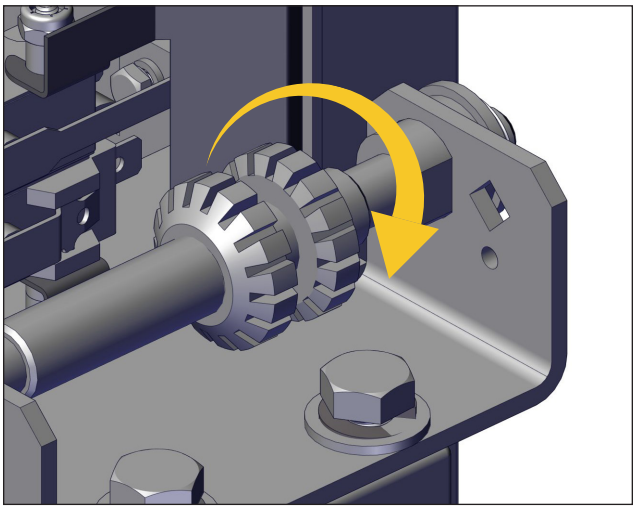
FIGURE 72: REMOVE THE SLOTTED SCREW AND CAM PLATE



1	CAM PLATE	3	DOWN-CAM WHEEL
2	SLOTTED SCREW	4	UP-CAM WHEEL

- To reduce the upper limit, turn the up-cam wheel. Removing a tooth is equivalent to removing 5/32" (4 mm) on the cover lifting stroke.

FIGURE 73: TURN THE UP-CAM WHEEL



Once the upper limit is set:

1. Reinstall the cam plate (make sure it is inserted in the slot of each cam wheel).
2. Reinsert the slotted screw.
3. Reinstall the operator cover (without the four screws).

WARNING

Never operate the cover without the cam plate and retaining screw installed.

- Turn the power on and test the height of the cover. Repeat the previous steps if necessary.
- Once the adjustment is completed, fasten the operator cover with the four screws.

SPA COVER INSTALLATION
Checklist

☑	INSTALLATION STEPS	NOTES
☐	The base preparation steps are done correctly.	
☐	The installation steps are done correctly.	
☐	The seal is properly installed and there is no steam leaking out around the cover.	
☐	The key switch is **permanently installed** vertically, at least 5 ft (1.5 m) away from the spa and 5 ft (1.5 m) from the ground.	
☐	The electrical portion of the installation was done by a certified electrician.	
☐	All parts supplied and included into the crate are installed.	
☐	The start-up procedure is completed.	
☐	The four jacks have been properly anchored to the foundation OR a set of non-permanent mounting plates has been installed.	
☐	The all-weather seals work properly.	
☐	The middle sleeves slide freely **(manually slide the middle sleeves up and down when the cover is half open)**.	
☐	The lights can be controlled with the remote control.	
☐	The date of installation has been written on the technical specifications label.	
☐	The yellow tag is attached to the COVANA key ring.	

Serial number	
Installation date (YYYY/MM/DD)	
Installer's name	
Installer's signature	
Customer's name	
Customer's signature	
Customer's address	
Retailer's name	

CUSTOMER COPY

SPA COVER INSTALLATION
Checklist

☑	INSTALLATION STEPS	NOTES
☐	The base preparation steps are done correctly.	
☐	The installation steps are done correctly.	
☐	The seal is properly installed and there is no steam leaking out around the cover.	
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☐	The four jacks have been properly anchored to the foundation OR a set of non-permanent mounting plates has been installed.	
☐	The all-weather seals work properly.	
☐	The middle sleeves slide freely **(manually slide the middle sleeves up and down when the cover is half open)**.	
☐	The lights can be controlled with the remote control.	
☐	The date of installation has been written on the technical specifications label.	
☐	The yellow tag is attached to the COVANA key ring.	

Serial number	
Installation date (YYYY/MM/DD)	
Installer's name	
Installer's signature	
Customer's name	
Customer's signature	
Customer's address	
Retailer's name	

INSTALLER COPY

OWNER'S MANUAL

OPERATE THE COVER

WARNING



READ THE SAFETY SECTION OF THIS MANUAL CAREFULLY BEFORE OPERATING THE COVER.

CAUTION



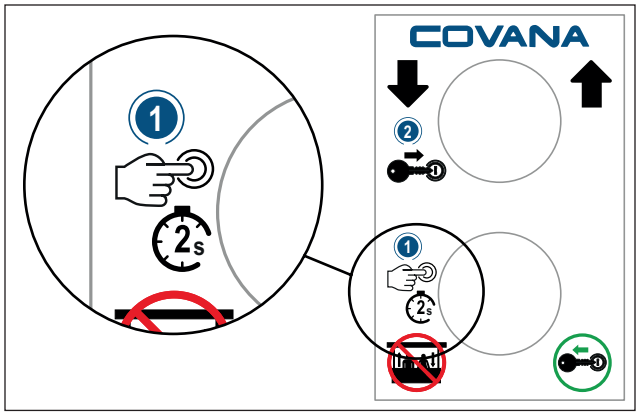
REMOVE ALL DEBRIS AND SNOW FROM THE COVER, AROUND THE SLEEVES AND FROM THE MOTOR SIDE.

RAISING/LOWERING THE COVER WITH THE KEY SWITCH

WARNING

Ensure that:

- There is nobody in or near the spa.
- There is no obstruction over or around the cover.
- The cover is completely visible when operating the key switch.
- The key is removed from the key switch when not in use; Bring the key in the spa to prevent any unauthorized operation of the cover.

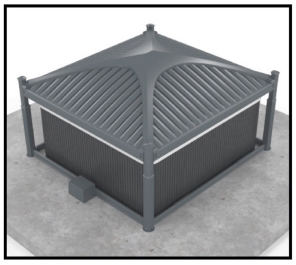


- To raise the cover, press and hold the button 1 for **2 seconds**, and **then** turn the key UP (↑ arrow).
- To lower the cover, press and hold the button 1 for **2 seconds**, and **then** turn the key DOWN (↓ arrow).
- Remove the key and install the rubber cap back on the key switch after each use.

NOTE

The cover will automatically stop in both the fully open and fully closed position.

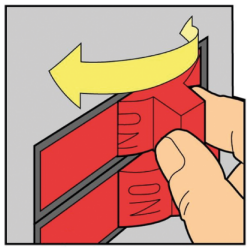
IMPORTANT NOTE



KEEP THE COVER FULLY CLOSED WHEN NOT IN USE.

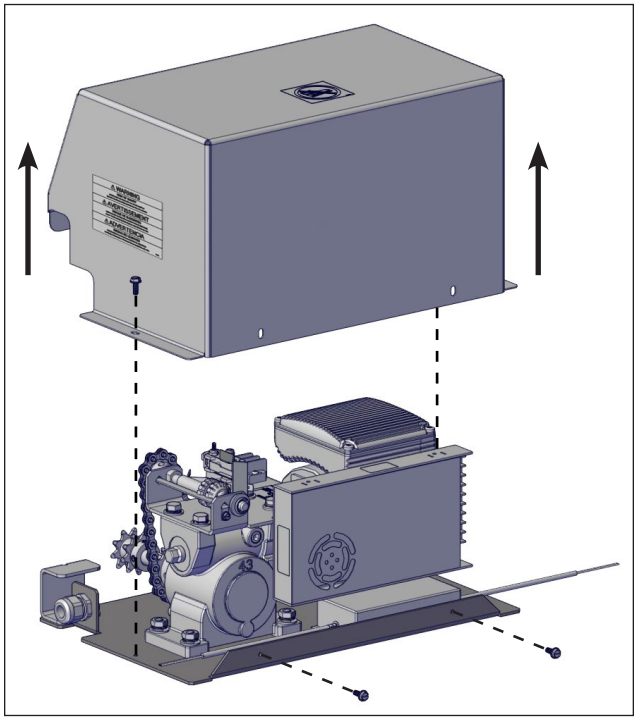
MANUAL OPERATION OF THE COVER

WARNING



DISCONNECT OR TURN OFF POWER SUPPLY BEFORE STARTING ANY WORK ON THE COVER. ALL ELECTRICAL WORK SHOULD BE PERFORMED BY A QUALIFIED ELECTRICIAN.

FIGURE 74: REMOVE THE OPERATOR COVER

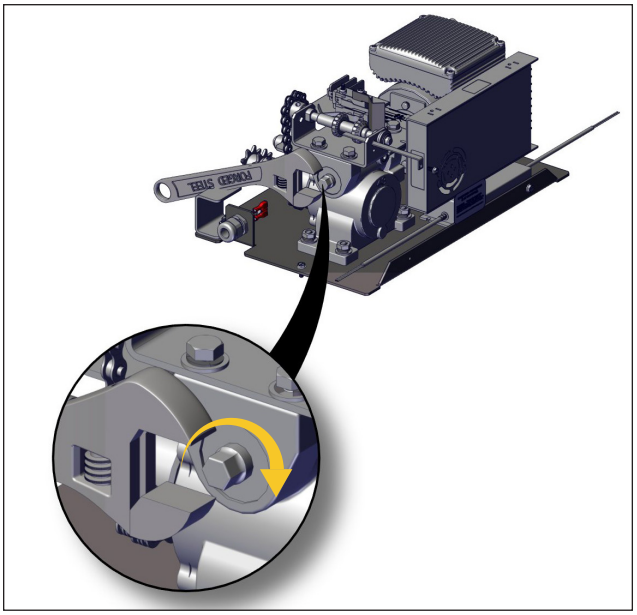


- Slowly turn the extension shaft clockwise to lower the cover, or counterclockwise to raise it. Stop immediately if any tension occurs.

WARNING

Do not exceed the limits of the mechanism. Failure to respect this guideline may cause mechanical failure.

FIGURE 75: USE A WRENCH TO TURN THE EXTENSION SHAFT



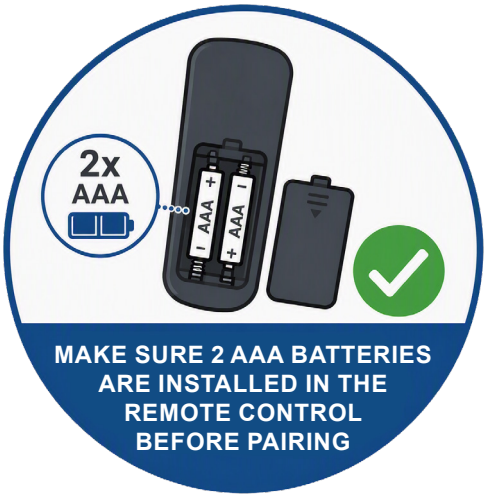
- Reinstall the operator cover with the four screws.
- Reconnect and turn on the power supply.

PAIRING REMOTE CONTROL

1. Press the light button ON, then OFF — repeat twice.
2. Immediately press the remote power button 3 times.
3. If the LED flashes, the pairing worked.

Pairing cancellation:

1. Press the light button ON, then OFF — repeat twice.
2. Immediately press the remote power button 5 times.
3. If the LED flashes, the paired remote control has been deleted.



TUYA SMART APP – Wi-Fi

FIGURE 76: DOWNLOAD AND INSTALL THE TUYA SMART MOBILE APP – REGISTER AND LOGIN

FIGURE 77: PRESS THE LIGHT BUTTON ON, THEN OFF. REPEAT TWICE (THE LIGHT WILL FLASH)

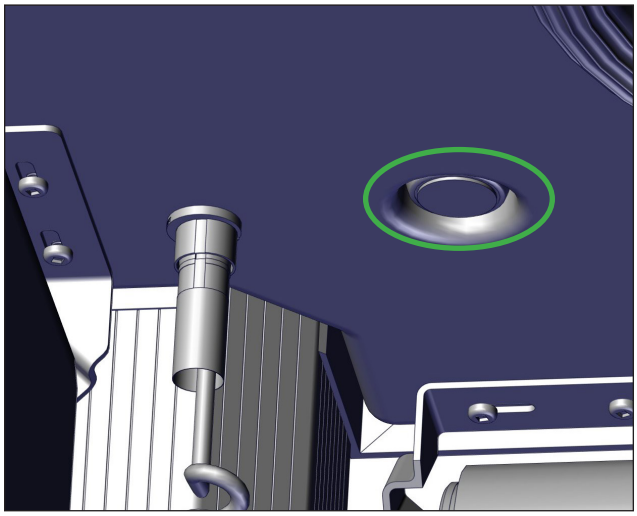


FIGURE 78: OPEN THE APP AND TAP THE + ICON IN THE TOP-RIGHT CORNER

FIGURE 79: TAP "ADD DEVICE"

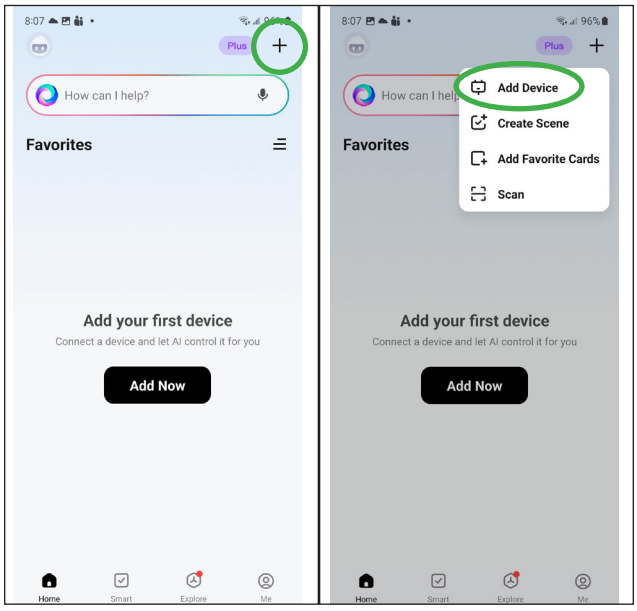


FIGURE 80: TAP RGB

FIGURE 81: SELECT WI-FI AND ENTER PASSWORD

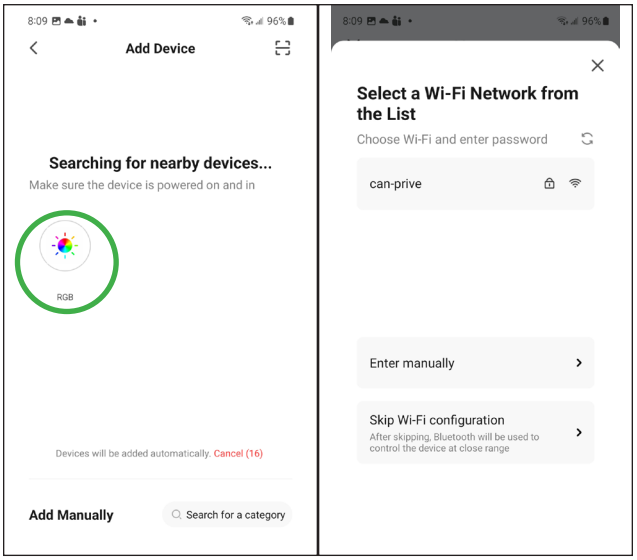
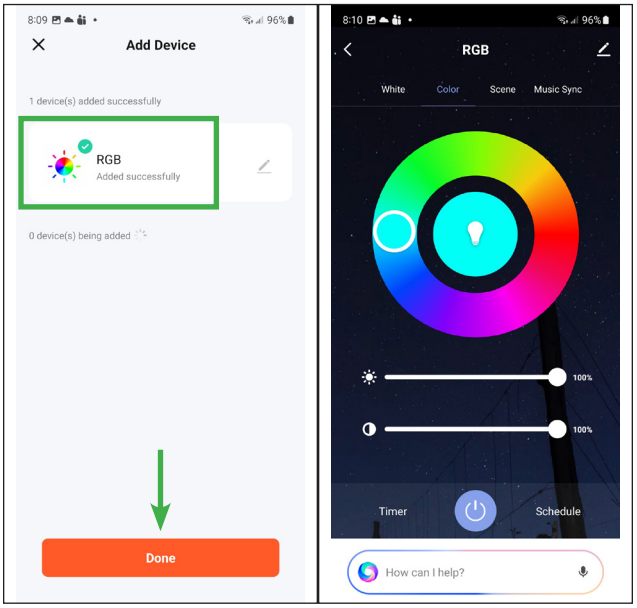


FIGURE 82: WAIT FOR THE APP TO DISPLAY "ADDED SUCCESSFULLY" WITH A GREEN CHECK MARK, THEN TAP DONE

FIGURE 83: YOU CAN NOW CONTROL THE LED LIGHTING USING THE APP



TUYA SMART APP – BLUETOOTH

If the network is weak, you can still control the lighting via Bluetooth as long as you are within range.

FIGURE 84: DOWNLOAD AND INSTALL THE TUYA SMART MOBILE APP – REGISTER AND LOGIN

FIGURE 85: PRESS THE LIGHT BUTTON ON, THEN OFF. REPEAT TWICE (THE LIGHT WILL FLASH)

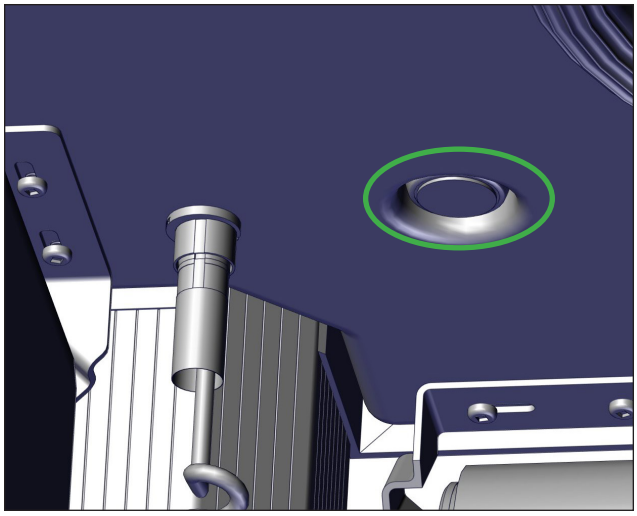


FIGURE 86: OPEN THE APP AND TAP THE + ICON IN THE TOP-RIGHT CORNER

FIGURE 87: TAP "ADD DEVICE"

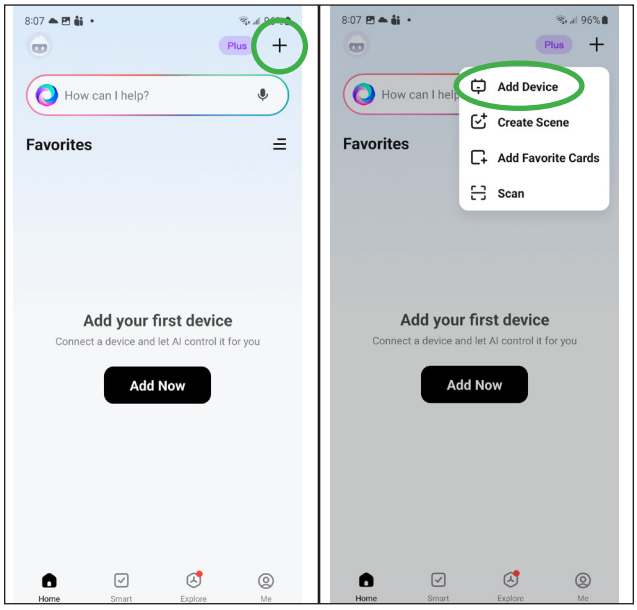


FIGURE 88: TAP RGB

FIGURE 89: SKIP THE WI-FI SETUP

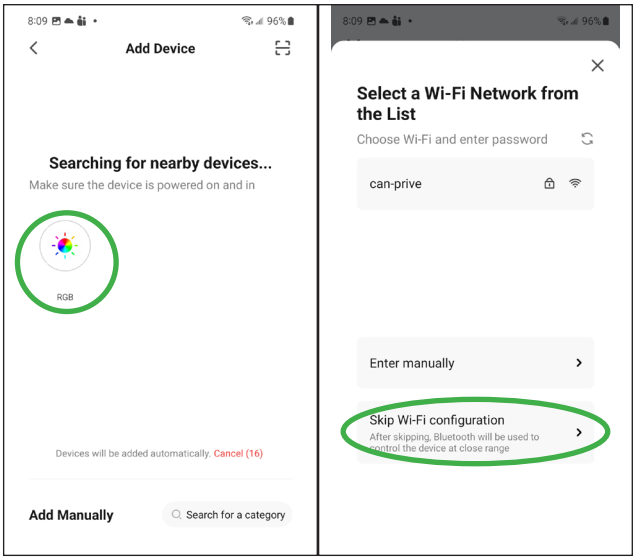
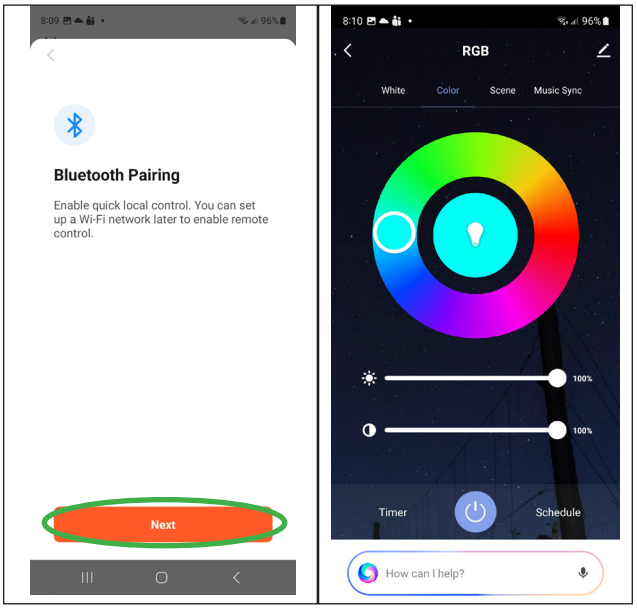


FIGURE 90: CLICK NEXT – THE DEVICE IS NOW CONNECTED

FIGURE 91: YOU CAN NOW CONTROL THE LED LIGHTING USING THE APP



USING THE REMOTE CONTROL/APP

BUTTON	FUNCTION
⏻	Turns the light ON/OFF
🎨	Tap to change the RGB color temperature.
☀ ☀	Adjust the RGB or color temperature brightness, press briefly for 10 levels, press and hold for 1 to 6 seconds for continuous adjustement over 256 levels.
CCT	Adjust the color temperature by WW/CW channel, press briefly for 11 levels, press and hold for continuous adjustement of the WW+CW brightness.
RGB	Press briefly to get 24 static RGB colors.
⟳	Press briefly for the next dynamic mode, press and hold for 2 seconds for the mode-cycle.
⏩	For dynamic RGB mode, adjust the speed: press briefly to cycle through 10 levels, press and hold for 2 seconds to restore the default speed. In static RGB mode, adjust the saturation (the current static RGB color gradually changes to white): press briefly for 11 levels, press and hold for 1 to 6 seconds for continuous adjustement over 256 levels.
R G B	Press briefly to instantly select red, green, or blue. Press and hold for 1 to 6 seconds for continuous RGB brightness adjustment, offering millions of colors.
W	Press briefly to turn white (WW/CW) ON/OFF, press and hold for of 1 to 6 seconds for continuous adjustment of its brightness, i.e. modifying the saturation by slowly adding white color.
S1 S2	Press briefly to restore the saved lighting scene; press and hold for 2 seconds to save the current color to S1/S2. The LED indicator turns green when saving is successful.



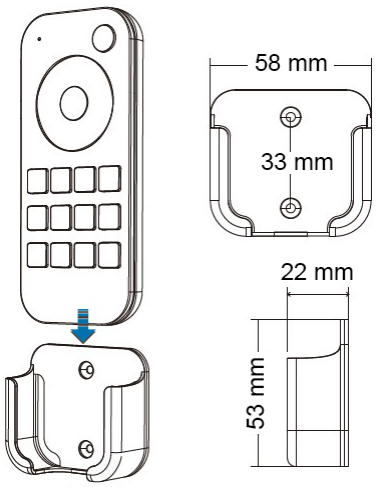
1	6	11
Warm White	Natural White	Cool White
WW 100% / CW 0%	WW 100% / CW 100%	WW 0% / CW 100%



1	5	9	13	17	21	25
R 100%	R 100% G 100%	G 100%	G 100% B 100%	B 100%	R 100% B 100%	R 100%

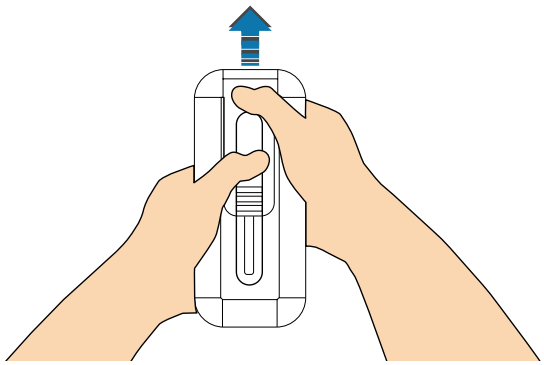
REMOTE CONTROL HOLDER

Attach the remote control holder to the wall using two screws, or double sided compressible mounting tape (included).



BATTERY REPLACEMENT

When replacing the AAA batteries, use both hands to remove the back cover of the remote control.

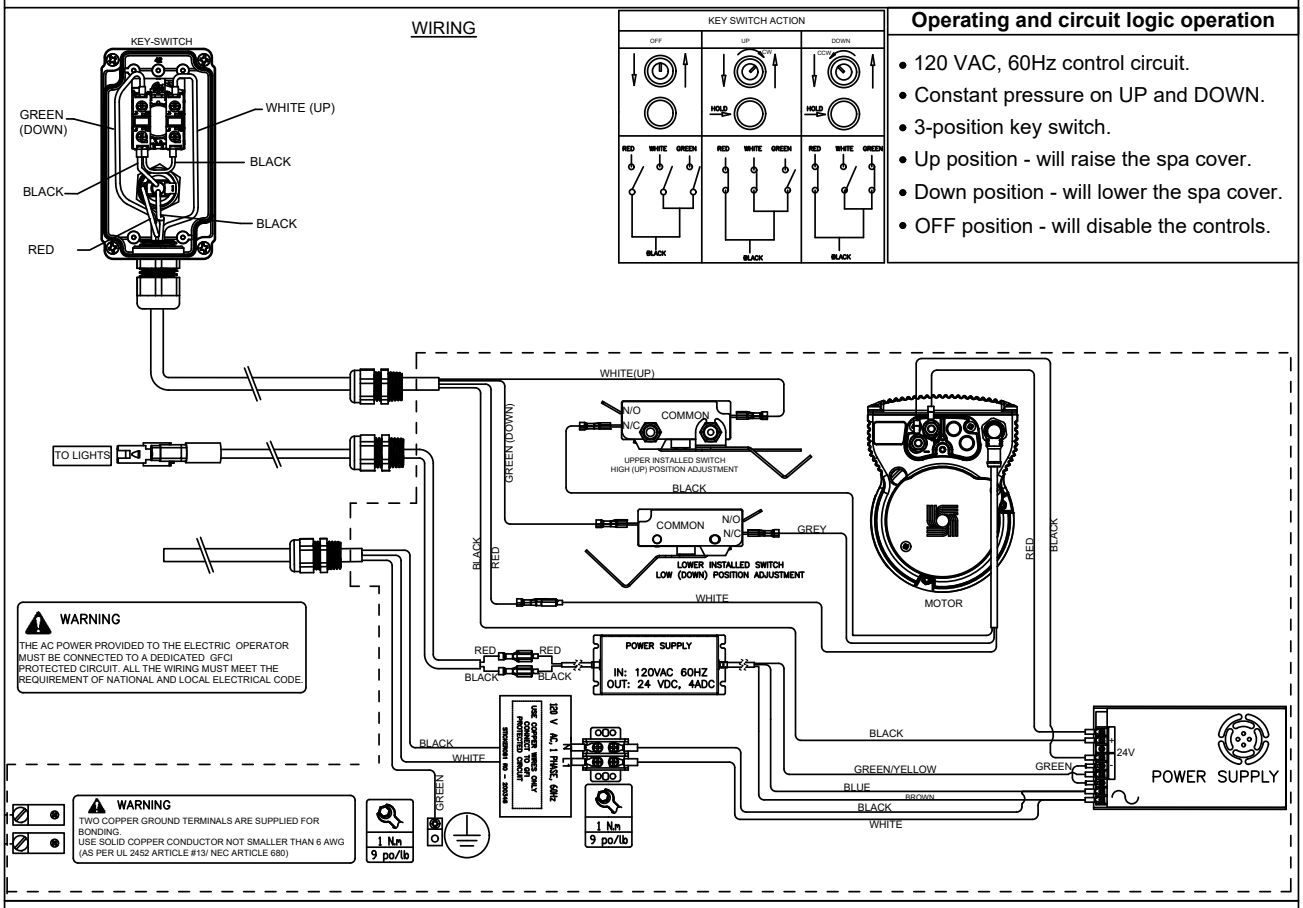


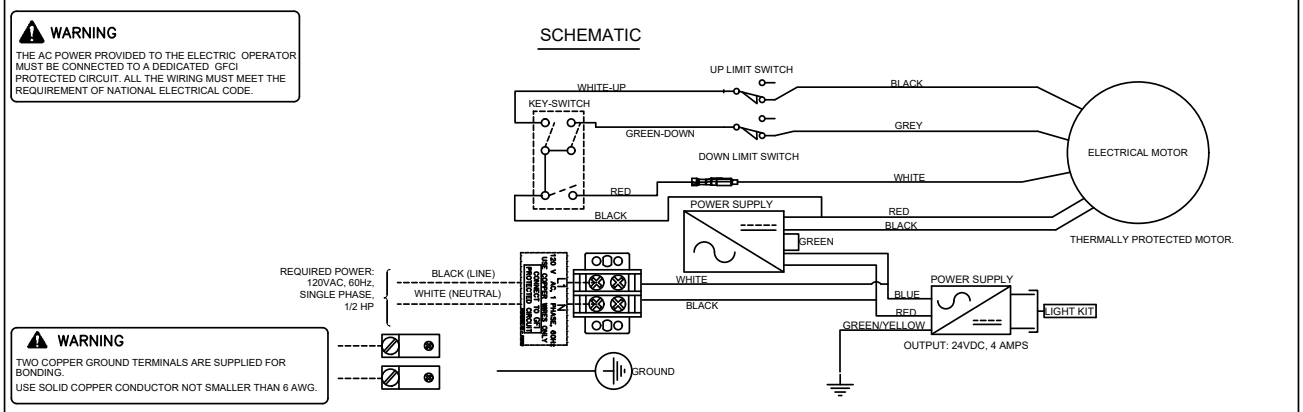
ELECTRICAL DIAGRAMS

ELECTRICAL DIAGRAMS

WIRING DIAGRAM (NORTH AMERICA) – 60 HZ, 120 VAC OPERATOR

Wiring & Schematic Diagram-Light kit - 120VAC, 60Hz Operator (North America)





Note: The spa cover operator is designed with a brushless DC motor with internal automatic reset thermal overload. In case of over-use, the motor will overheat and shutdown. Once the motor cools down to its operational temperature, the spa cover could be used again.

The control circuit operates at 120 VAC, 60Hz. Due to the resistance in the wire used to carry the control circuit voltage, it is important to use the appropriate wire size between the operator and the main power supply.
If the wire gage is not suitable for the distance, problems in operator will be encountered such as motor humming, premature wear of the limit switches' contacts and possible tripping of the motor's thermal protection.
All power wiring should be installed by a qualified electrician and may vary with respect to conduit size and type as specified in the National Electric Code (NEC), Article 430, allowing 5% volt drop, or comply to any other local codes and regulations. Power must be connected in accordance with local electricity codes.

MAINTENANCE

MAINTENANCE

WASHING THE COVER

CAUTION

NEVER USE:
- **A PRESSURE WASHER OR HIGH PRESSURE**
- **HARSH DETERGENTS**
- **ABRASIVE CLEANERS**
- **CLEANER OR STAIN REMOVER WITH CHLORINATED OR AROMATIC HYDROCARBONS**



Step 1.

Gather supplies

- 1% solution of household dish soap (must have a neutral 6.5-7.5 pH range)
- Soft plastic brush
- Sponge
- Cloth



Step 2.

Wash the cover

1. Rinse the cover to remove any large debris.
2. Apply the soap solution in a scrubbing or circular motion using a sponge, cloth or soft plastic brush.



3. Quickly rinse very thoroughly to remove all traces of soap; otherwise, a film will build up giving the cover a dull, dirty appearance.

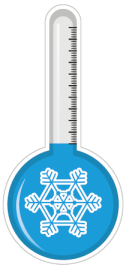
CAUTION



REMOVE SNOW REGULARLY OR AFTER HEAVY SNOWFALL. DO NOT LET MORE THAN 12" (30 CM) OF SNOW ACCUMULATE ON THE COVER.

WINTERIZING

CAUTION



FOLLOW THESE INSTRUCTIONS IF YOU PLAN TO STOP USING THE SPA FOR A LONG PERIOD OF TIME OR IF THE TEMPERATURE DROPS BELOW FREEZING POINT.

Step 1.

Prepare the spa for closure

Follow the spa manufacturer's winterization instructions.

Step 2.

Prepare the cover for closure

1. Remove dust, greasy residue and dirt from the cover.
2. Close the cover.
3. Turn off and secure the power supply of the cover.
4. Place a waterproof tarp on the cover, and another on the control box.

CAUTION

Use a tarp only for the winterization procedure and during the cold season; remove it as soon as seasonal temperatures are higher than the freezing point.

Remote control

Remove the batteries from the remote control.

CAUTION

Store unused batteries indoors in their original packaging and away from metal objects (do not mix or jumble batteries).

POST GREASING

The internal jacks require yearly greasing to ensure the best performance. Early in the fall season is the best time.

IMPORTANT NOTE



WHITE LITHIUM GREASE IS RECOMMENDED FOR ALL CLIMATES. IDEALLY A SPRAYABLE GREASE OR AN EQUIVALENT LOW TEMPERATURE SYNTHETIC GREASE.

NOTE

The posts will not lift by removing the top plates. Only the motor can raise or lower the posts.

POST GREASING PROCEDURE

- Lower the cover until it is fully closed.

FIGURE 92: REMOVE THE RUBBER CAP FROM EACH POST

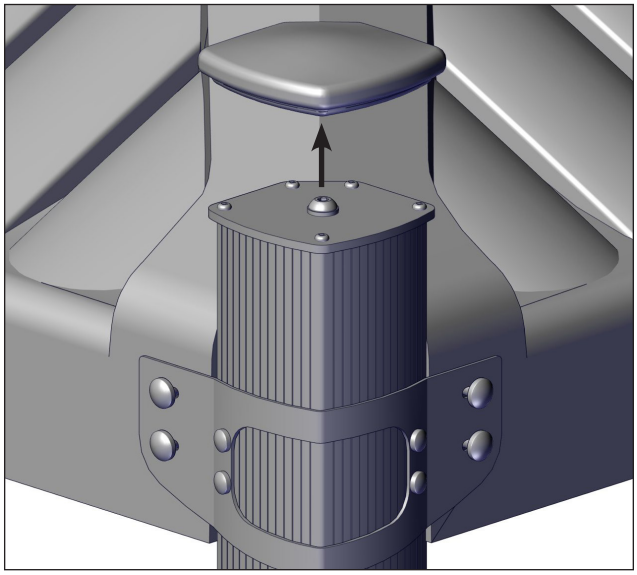
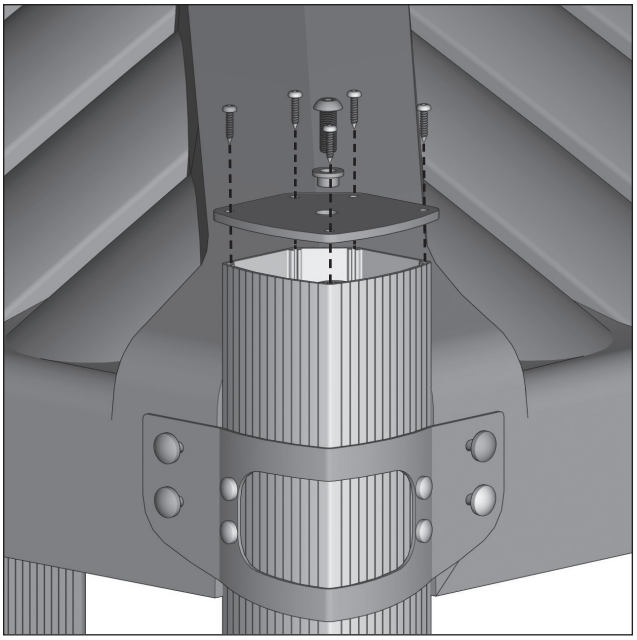


FIGURE 93: REMOVE THE TOP PLATE FROM EACH POST (6 SCREWS AND 1 BUSHING)



⚠ WARNING

Failure to remove all four top plates will result in important damages to the cover.

FIGURE 94: RAISE THE JACKS ALL THE WAY UP WITH THE KEY SWITCH

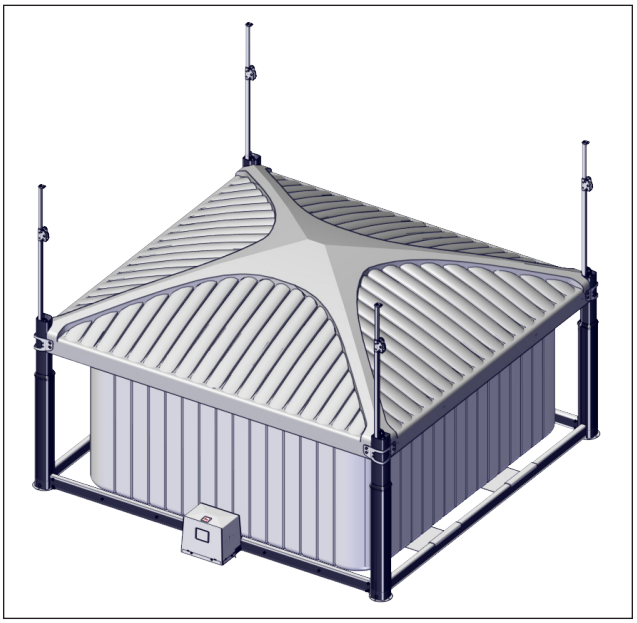


FIGURE 95: SPRAY GREASE ON THE SLIDING PARTS AND MECHANICAL COMPONENTS OF EACH JACK

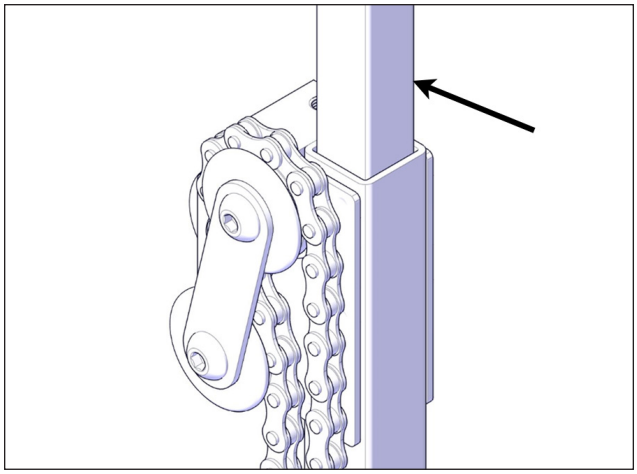
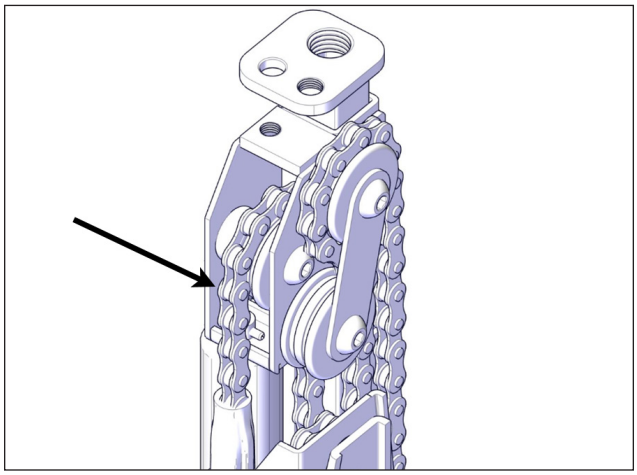


FIGURE 96: INSPECT THE CHAINS FOR SIGNS OF DETERIORATION



- Cycle the system up and down and check if more grease should be added.
- Lower the system completely until it stops automatically.
- Reinstall the top plate on each post with the five screws, as well as the hexagonal head screw and bushing.
- Reinstall the rubber cap on top of each post.

CHAIN LUBRICATION

The transmission power chains attached to the operator require yearly greasing.

IMPORTANT NOTE



WHITE LITHIUM GREASE IS RECOMMENDED FOR ALL CLIMATES. IDEALLY A SPRAYABLE GREASE OR AN EQUIVALENT LOW TEMPERATURE SYNTHETIC GREASE.

FIGURE 97: TWO CHAINS ARE ATTACHED TO THE OPERATOR (LEFT AND RIGHT)

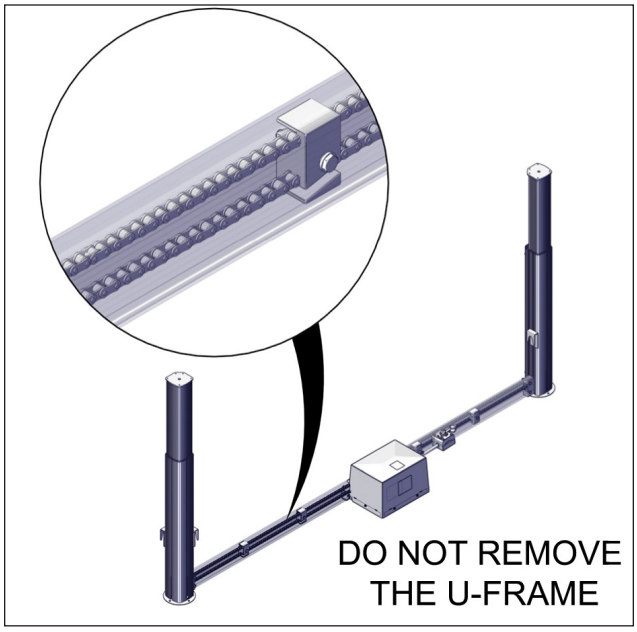


FIGURE 98: REMOVE THE SCREW COVER AND LOOSEN THE SCREW AT THE BASE OF THE EXTERNAL SLEEVE

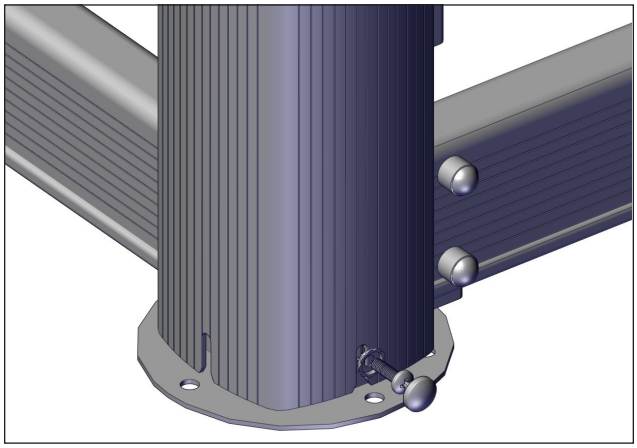
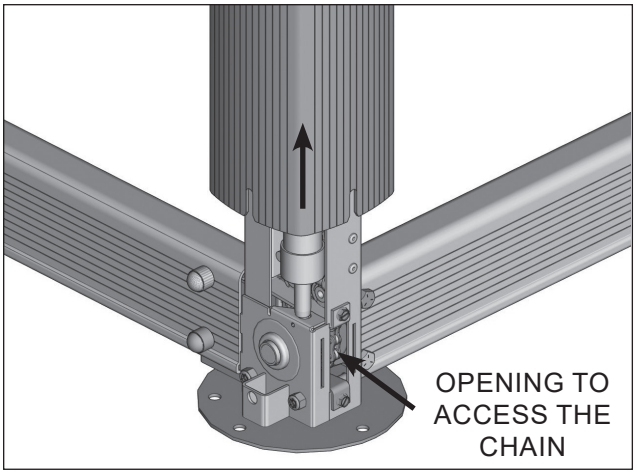
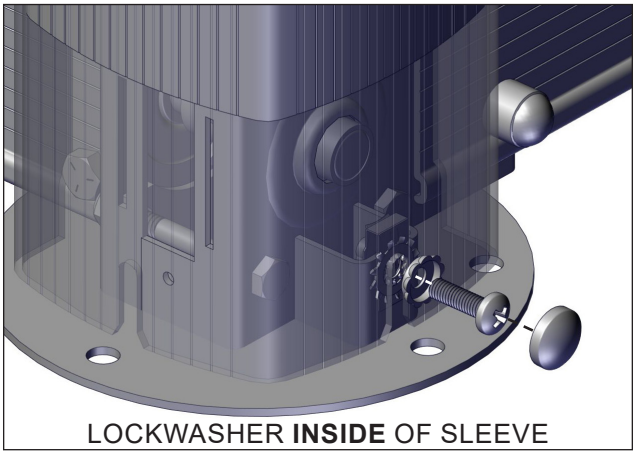


FIGURE 99: MANUALLY RAISE THE SLEEVE AND KEEP IT UP WITH A WOODEN BLOCK



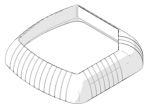
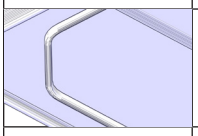
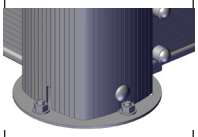
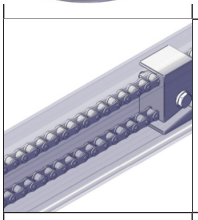
- Spray the chain lightly with grease while another operator cycles the cover up and down with the key switch.

FIGURE 100: LOWER THE SLEEVE, TIGHTEN THE SCREW, AND REINSTALL THE SCREW COVER



REPEAT ON THE OPPOSITE SIDE

PERIODIC MAINTENANCE SCHEDULE

ITEM	TASKS	Each use	Weekly	Every 3 months	Yearly
	**COVER** • Wash with a mild detergent (i.e., dishwashing detergent) and water. Rinse well using only water. • Remove snow and debris from the cover, around the sleeves and from the motor side.	**As needed**			
	• Perform a visual inspection (debris, snow, ice, etc.). • Listen to any unusual noises during operation.	●			
	LIFTING MECHANISM Raise and lower the cover.		●		
	**SLEEVES** Check if correctly positioned (middle sleeves are not out of their normal position).	●			
	**ALL-WEATHER SEALS** Check if correctly positioned (in contact with outer sleeves when cover is closed).	●			
	**ROLLER SHADES** Adjust the brackets if needed to prevent wrinkles.		●		
	**SEAL** Make sure there is no vapor steam leakage.		●		
	**ANCHORS** Check anchoring of cover.*				●
	**CHAINS** • Check tension of each post and in U-frames.* • Lubricate chains in each post and in the U-frames.*				●
	**JACKS** Grease the jack assemblies.*				●
GFCI	Test GFCI.			●	

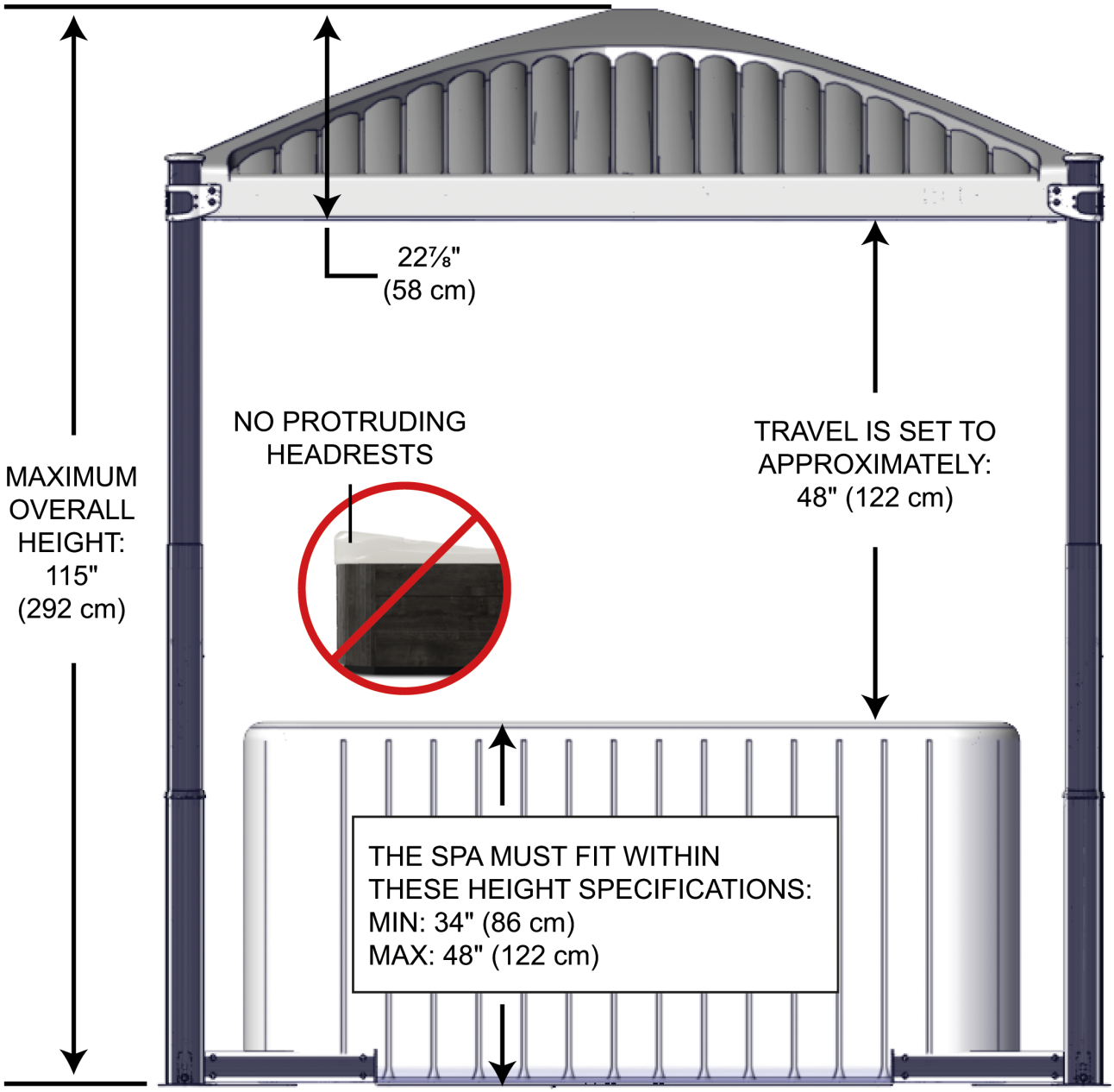
*Contact your local Covana retailer.

Call your Covana retailer for any mechanical, electrical or aesthetic maintenance.

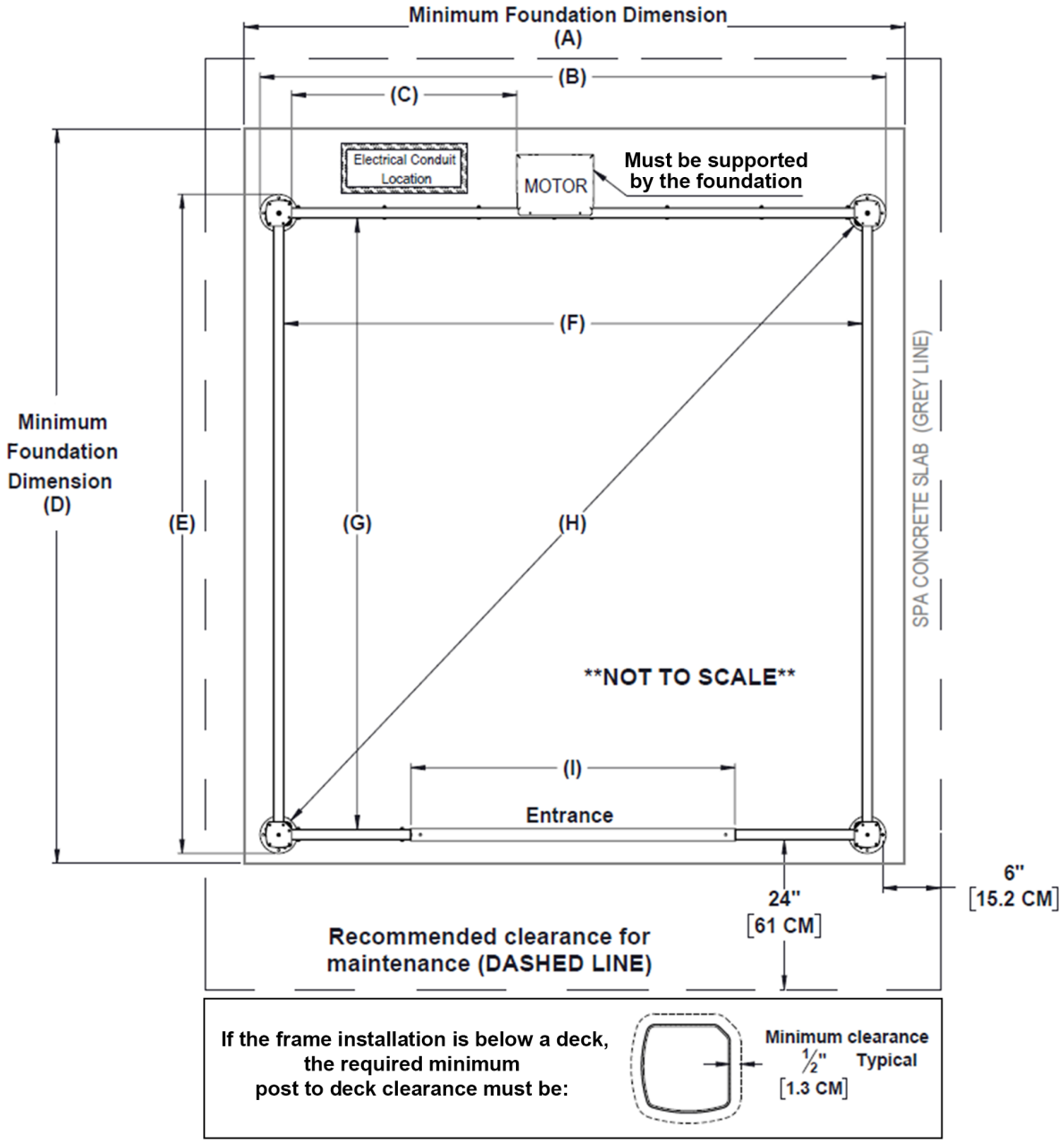
TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS

COVER FRONT VIEW

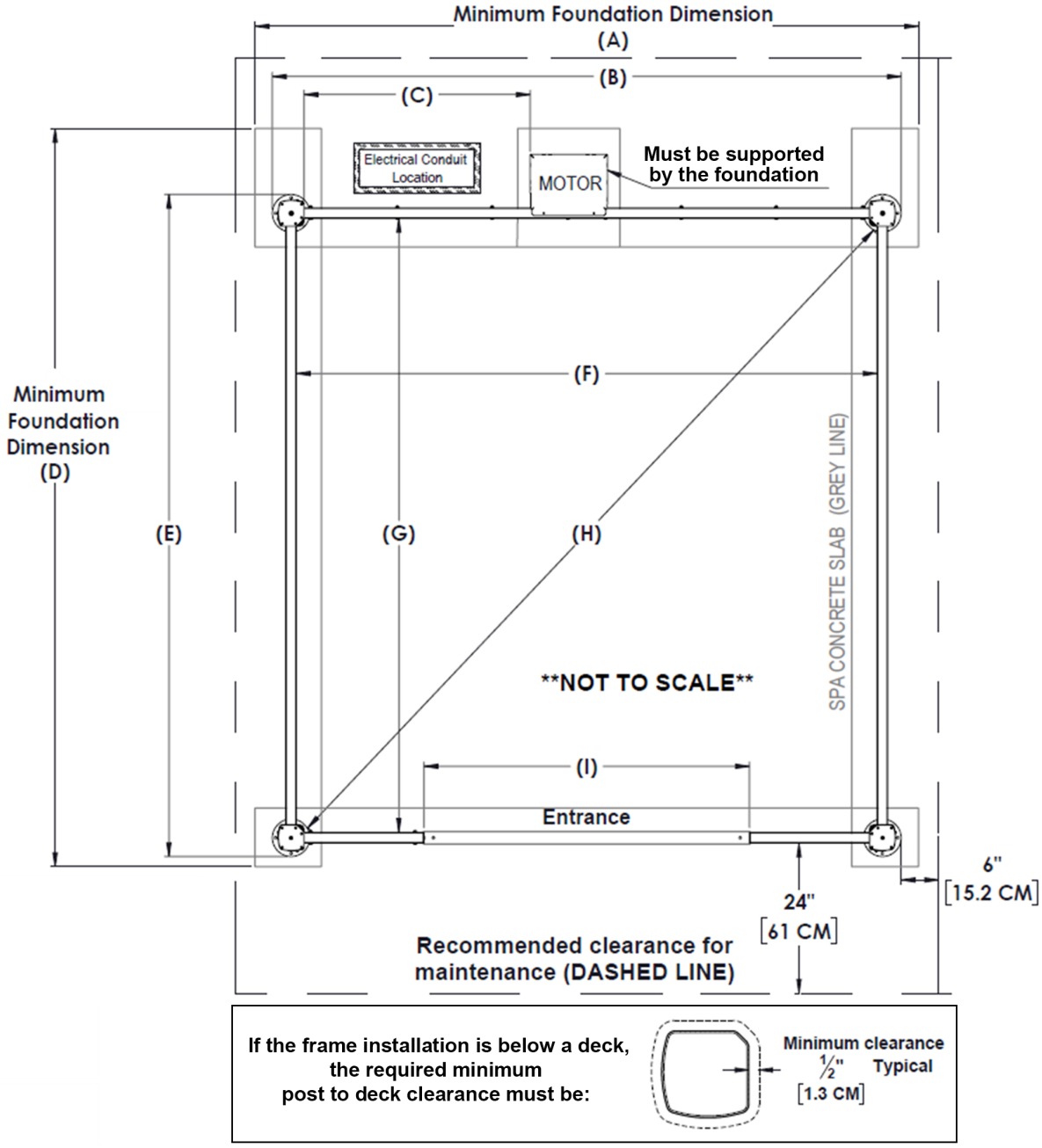


FRAME DIMENSIONS AND FOOT PRINT



INCH (mm)	A	B	C	D	E	F	G	H	I
STANDARD MODEL	106 (2692)	100.5 (2553)	36.1 (917)	118 (2997)	105.75 (2686)	93 (2362)	98 (2489)	130.75 (3321)	52 (1321)

CONCRETE SLAB LAYOUT OPTION



INCH (mm)	A	B	C	D	E	F	G	H	I
STANDARD MODEL	106 (2692)	100.5 (2553)	36.1 (917)	118 (2997)	105.75 (2686)	93 (2362)	98 (2489)	130.75 (3321)	52 (1321)

ELECTRICAL SPECIFICATIONS

The cover requires a dedicated single phase 115 VAC (North America) hard-wired power supply.

The cover must be installed in accordance with and comply with all applicable local codes and regulations. All wiring and connections should be performed by a certified electrician.

Wires and cables should be sized according to local codes and regulations.

NORTH AMERICAN REQUIREMENTS

Voltage	115 V, 60 Hz (1 hot, 1 neutral, 1 ground)
GFCI	15 A single-pole GFCI (not included)
Current draw	Max 12 A

⚠ WARNING

Covana does not allow any modifications to the electrical system. Covana reserves the right to void the warranty if any modification is done without its approval.

EUROPEAN REQUIREMENTS

Model currently in development

OPERATION LIMITATIONS

⚠ WARNING

The cover should never be used if the following conditions are reached.

Maximum wind	Gusts of 30 mph (50 km/h) while in the raised position. Lower the cover when winds exceed 30 mph (50 km/h).
Maximum weight on the cover (evenly distributed)	200 lb. (90 kg) Before operating the cover, make sure it is free of any dirt, debris, leaves, snow, etc.

GENERAL SPECIFICATIONS

Lifting speed	2.5 in./s (6.35 cm/s)
Total weight	600 lb. (272 kg)
Length of key switch cable	25 ft (7.6 m)

TROUBLESHOOTING

TROUBLESHOOTING

PROBLEM	PROBABLE CAUSES	SOLUTIONS
The cover does not raise or lower (silent motor and no movement).	The GFCI is tripped.	Reset the GFCI.
	The power source is disconnected.	• Verify that the power source is enabled. • Check the breaker panel. • Verify whether the cables were damaged or pinched.
The cover does not raise or lower (motor humming and some visible movement).	Posts are frozen.	Use methanol to free ice buildup on posts.
	Jack assemblies are jammed.	Apply grease on the post assemblies.
	The motor is obstructed.	• Hold the key in the problematic direction. If the cover moves in the opposite direction, this indicates a mechanical restriction (contact your local authorized Covana retailer). • If the cover does not move in the opposite direction, reset the lower limit of the cover.
	Posts are obstructed.	• Verify whether any posts are obstructed. • Verify the relative position of the four posts (see FOUNDATION PREPARATION).
	The debris on the cover is too heavy.	Remove all the debris from the top of the cover.
If all previous attempts failed, contact your local authorized Covana retailer.		
The posts are not equally positioned.	The post screws (attached to the outer shell) are loose.	Lower the cover completely and fasten the post back in at the correct height.
	The chain skipped during operation.	Lower the cover and replace the chain.
	A spring pin at the bottom of a jack is broken.	Replace any missing or broken spring pin by lifting the outer sleeve, using an awl and a hammer.
	A drive shaft has fallen off.	Verify whether a drive shaft has fallen off and if it is the case, reinstall the shaft.
	Excessive weight on one side of the cover.	Remove all debris from the top of the cover.
If all previous attempts failed, contact your local authorized Covana retailer.		
The shades are loose, retracted improperly or disconnected from the brackets. The shades are wrinkling or bulging at the roller.	• The internal spring is not wound enough. • Too much tension in the internal spring.	• Consult the Shade installation manual. • Remove the bottom rod and reset the tension back to “4 turns”.
	Holding brackets are not parallel.	Make sure the outer sleeves are sitting on the foot plate, reposition the holding brackets so the roller shade is moving straight.
The middle sleeve has gripped and might have dropped abruptly.	Posts are frozen.	Verify the position of the all-weather seal. While the cover is closed, it must be sitting on the top of the outer sleeve.
	Sleeves are misaligned.	• Reinstall the sleeves. • Check level on 2 faces of the sleeve.
	The stopper kit is broken/ missing.	Check whether the stopper kit is broken/missing.
If all previous attempts failed, contact your local authorized Covana retailer.		

PROBLEM	PROBABLE CAUSES	SOLUTIONS
The cover raises unevenly.	• The chain is broken. • A spring pin is broken. • A drive shaft has fallen off. • Posts are gripped.	Do not operate the cover.
Contact your local authorized Covana retailer for technical support.		

Cover raises but does not lower. **➲Cut power before performing any electrical work.**	The cam plate is incorrectly positioned or missing.	Check that the cam plate is installed and in good condition (see LIMIT SWITCH ADJUSTMENT).
	The key switch is faulty.	Contact your local authorized Covana retailer for technical support.
	Limit switches don't operate properly.	• Certified electrician only: Open the operator and check for faulty up and down limit switches. • Check if there is any corrosion on the terminals and clean it if necessary. • Check if any electrical cables are damaged or pinched.

Cover lowers but does not raise. **➲Cut power before performing any electrical work.**	The cam plate is incorrectly positioned or missing.	Check that the cam plate is installed and in good condition (see LIMIT SWITCH ADJUSTMENT).
	The key switch is faulty.	Contact your local authorized Covana retailer for technical support.
	Limit switches don't operate properly.	• Certified electrician only: Open the operator and check for faulty up and down limit switches. • Check if there is any corrosion on the terminals and clean it if necessary. • Check if any electrical cables are damaged or pinched.

Cover seal turned black.	The seal has accumulated mold.	Clean the affected areas with bleach and a soft brush. Rinse well with water.

Lights do not work.	The lighting assembly is faulty.	Check if the power source is enabled.
	The light push-button is faulty.	Replace the light push-button.
If all previous attempts failed, contact your local authorized Covana retailer.		

FOR MORE INFORMATION, AND TO FIND THE NEAREST COVANA RETAILER VISIT OUR WEBSITE:

covana.com **info@covana.com**

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