COVANA

SPA COVER MANUFACTURER

OWNER'S MANUAL



MANUAL NO. 252464

OASIS COVER MANUAL NO. 252464 First edition 2023-11-30

REVISION	DESCRIPTION	DATE
0	OWNER'S MANUAL NEW RELEASE	2023-11-30
1	Simplified version of the manual	2024-09-17

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SAFETY AND IMPORTANT INSTRUCTIONS

CONGRATULATIONS!

Congratulations for the purchase of your new COVANA cover!





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

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:

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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.

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.



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 residential spa under important installation instructions issued by Covana. Any other type of usage will void the warranty and product 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.

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WARNING

- Be sure to keep the key switch and 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 may overheat the cover and result in the deformation or delamination of the cover panels.
- Inspect the cover periodically. It should raise smoothly and evenly. Contact your Covana retailer if any unusual mechanical sound is heard during cover operations.

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 keep the cover open for more than 12 consecutive hours. Failure to follow this instruction may cause permanent deformations to the 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 electrical shock hazard. An extension cord may cause a voltage drop, which may cause the motor to overheat.

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.

CAUTION

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- This product mainly contains steel, plastic, fiberglass, foam, copper and die- cast aluminum. Please recycle properly according to the local rules.
- The gearbox contains oil and other materials. Please 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



CERTIFIED ELECTRICIAN **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 electrical 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 electrical shocks, the green-colored terminal (or the terminal marked "g," "gr," "ground," "grounding" or with a symbol) that is 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 on the external surface or on the inside of the supply terminal box or compartment. 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 mm²).
- 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 mm²) (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.

SAVE THESE INSTRUCTIONS

LABELING

LABELING

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.

Label	Description	Location	Label	Description	Location
VARHING Sector and Avertssement Constant of the sector and Avertssement Constant of the sector and Avertssement Avertssement Avertssement Avertssement	Risk of electrocution	On the operator		No step	On the top of the operator cover
	Risk of electrocution	On the power cable		Key switch operation diagram	On the key switch
	Technical specifications with serial number (European models)	On the operator cover	CALIFORNIA PROPOSITION A 55 WARNING A WARNING: This product contains chemicals known to the State of California to cause cancer and bitth defects or other reproductive horm. To more internation www.PS5%amirg.co.gov	Proposition 65 (North American models)	On the side o the operator cover
	Technical specifications with serial number (North American models)	On the operator cover	Visit waw.povana.com for recommended maintenance propedures and videos Trinker ret be antoint excepts the oneares Visitez www.povana.com pour dies consells et dies videos sur les procédures d'entretien Sect-excepter terre of accester	Maintenance information	On one side of the outer shell
	AWAF	RNING			On the four
FAILURE TO FOLLO	ID DROWNING RISK. I W ALL INSTRUCTIONS INSPECT COVER FETY COVER MEETS / FOR FURTHER INFORMATION OF	MAY RESUL PERIODICAL ASTM F1346-	T IN INJURY OR DROWNING. LLY. 23 REQUIREMENTS.	Avoid drowning	exterior and interior wall faces of the cover

GLOSSARY

PARTS NAME AND QUANTITY

All-weather seal	Seal	Seal clips	Seal connector
			6
4x	1x	1x	1x
Outer corner bracket	Drive shaft	Foot plate	U-frame link
	6	C.	
4x	2x	4x	1x
Key switch	Foam spacer	Limit switch	Motor frame
	\bigcirc		La J
1x	8x	2x	1x
Jack 2x motor	Operator	Sleeve 4x	U-frame
2x non-motor			2x long 2x short
Jack lock screw (A)	Wire guard	CTS-70	Inner shell
	-	1x	1x
IT IS	1x		
1x		Outer shell "Darling"	Outer shell "Shingle"
A: Jack lock screw B: Top plate screw C: Bushing D: Alignment bracket (pla	stic)		R 💎
(pia		1x	1x

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

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REVISION 1

PREPARATION FOR THE INSTALLATION

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

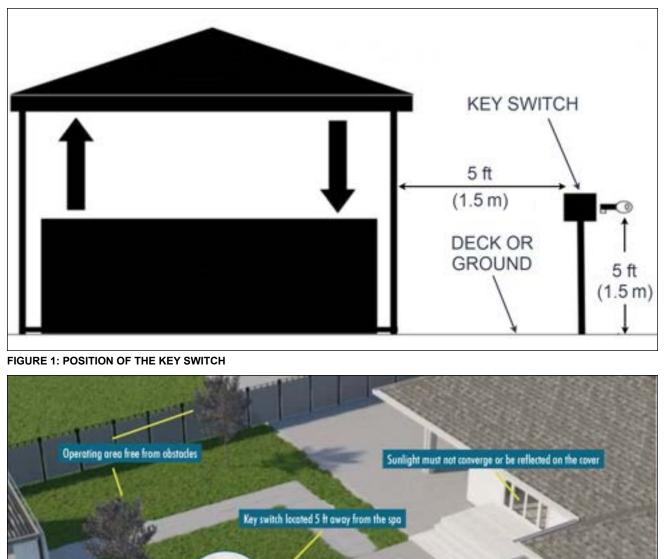


FIGURE 2: PREPARATION FOR THE INSTALLATION

Clean area free of vegetation and mineral contaminants

Away from flood zone or water downpours

Sale access to the spa

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.

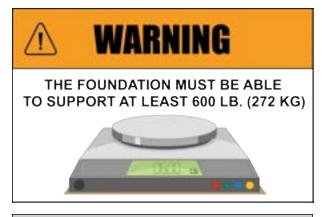
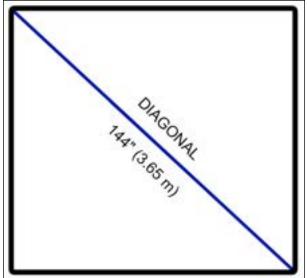


FIGURE 3: FOUNDATION DIAGONAL

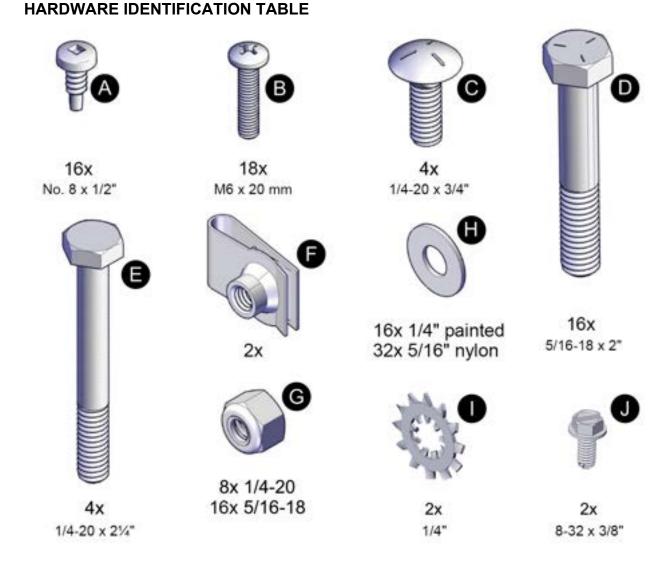


WARNING

- The foundation must be leveled with a maximum tolerance of 1" (25 mm) over a diagonal section (see <u>Figure 3</u>). 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.



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 FOAM SPACERS

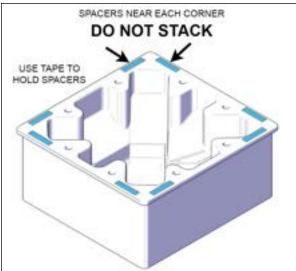
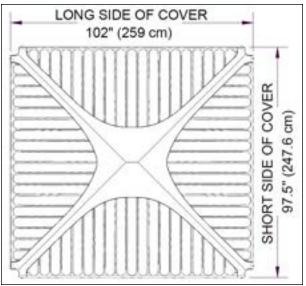
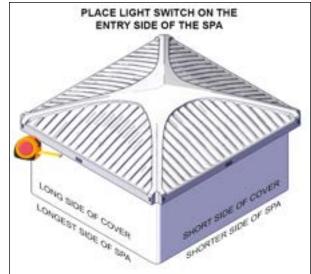




FIGURE 5: THE COVER IS RECTANGULAR







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)

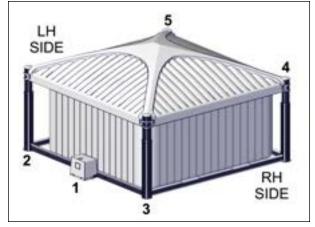
	WARNING
	SCREWS MAY BREAK OR STRIP IF THE TORQUE IS TOO MUCH WHEN USING POWER TOOLS.
	WARNING
	DO NOT REMOVE THE ALIGNMENT BRACKET ON THE TOP OF THE JACK (PLASTIC PART).
NOTE	

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

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

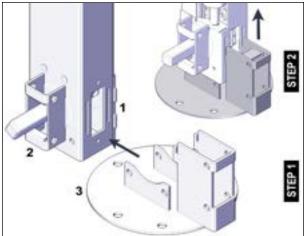
- <u>Standard model</u>: motor frame on the short side of the cover.
- Long side model: motor frame on the long side of the cover.

FIGURE 7: LOCATION OF OPERATOR AND JACKS



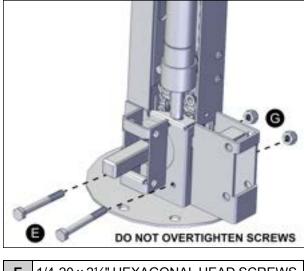
- 1 OPERATOR
- 2 MOTOR LEFT-HAND SIDE JACK
- 3 MOTOR RIGHT-HAND SIDE JACK
- 4 NON-MOTOR RIGHT-HAND SIDE JACK
- 5 NON-MOTOR LEFT-HAND SIDE JACK

FIGURE 8: INSTALL FOOT BRACKET



- 1 NON-MOTOR LEFT-HAND SIDE JACK
- 2 RIGHT-HAND SIDE OF U-FRAME
- 3 FOOT BRACKET

FIGURE 9: INSTALL SCREWS AND NUTS



- E 1/4-20 x 2¹/₄" HEXAGONAL HEAD SCREWSG 1/4-20 NYLON-INSERT LOCK NUTS
- Repeat with the non-motor right-hand side foot.

Lay the posts down before proceeding with the next step.

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

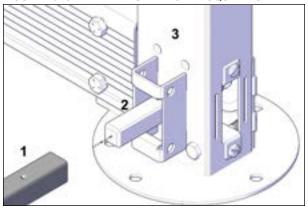
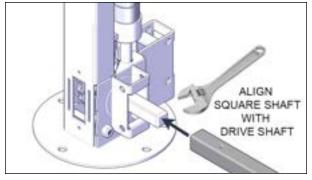


FIGURE 10: SLIDE DRIVE SHAFT OVER SQUARE SHAFT

- 1 DRIVE SHAFT
- 2 SQUARE SHAFT
- 3 LEFT MOTOR-SIDE JACK

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

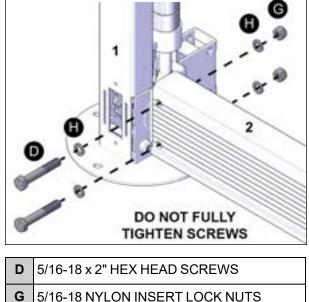
FIGURE 11: SLIDE DRIVE SHAFT OVER SQUARE SHAFT



WARNING

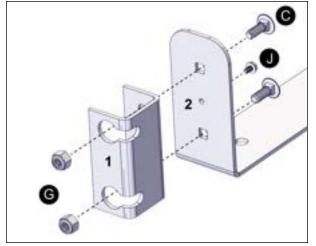
Using the jack without the drive shaft properly connected may cause injury.

FIGURE 12: INSTALL LONG U-FRAME



- H 5/16" NYLON WASHERS
- 1 NON-MOTOR SIDE JACK
- 2 LONG U-FRAME
- Repeat previous steps on the opposite side.

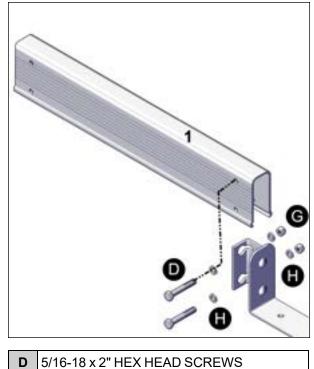
FIGURE 13: FASTEN ONE METAL COUPLER ON EACH END OF SPA ENTRANCE U-FRAME LINK



С	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		
1	UNPAINTED METAL COUPLER		
2	SPA ENTRANCE U-FRAME LINK		

• Fasten a short U-frame to each end of the spa entrance U-frame link (*Figure 14*).

FIGURE 14: FASTEN SHORT U-FRAMES

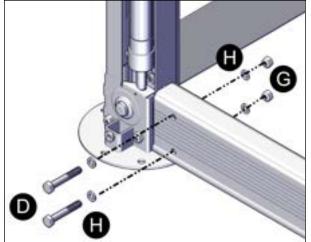


- G 5/16-18 NYLON INSERT LOCK NUTS
- H 5/16" NYLON WASHERS
- 1 SHORT U-FRAME

FIGURE 15: SLIDE ASSEMBLY BETWEEN FRONT POSTS



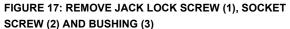
FIGURE 16: FASTEN ASSEMBLY TO FRONT POSTS

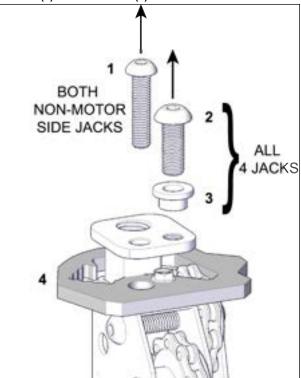


D	5/16-18 x 2" HEX HEAD SCREWS
G	5/16-18 NYLON INSERT LOCK NUTS
н	5/16" NYLON WASHERS

- Tighten all U-frame screws (make sure the drive shafts didn't fall off. If so, review the previous steps).
- Failure to verify the proper installation of the drive shafts could result in the non-motor-side jacks extending on their own.

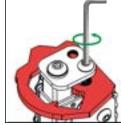
DANGER





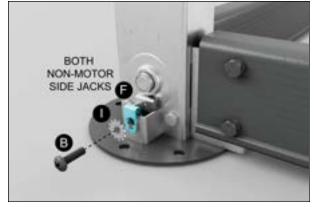
- 1 M8 x 50 mm JACK LOCK SCREW
- 2 3/8" x 1" SOCKET HD SCREW
- 3 BUSHING
- 4 ALIGNMENT BRACKET (PLASTIC)





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

FIGURE 18: INSTALL CLIP-ON BARREL NUT



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

FIGURE 19: SLIDE SLEEVES OVER FOUR JACKS

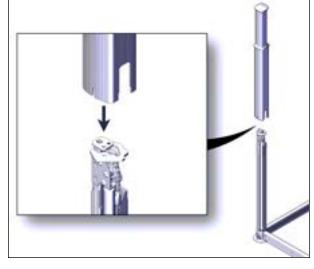
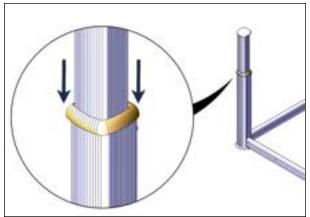


FIGURE 20: TIGHTEN SCREW ON EACH SLEEVE

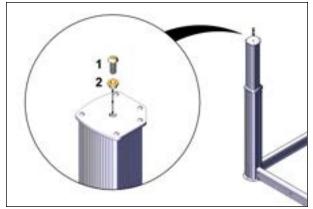


FIGURE 21: SLIDE SLEEVE SEAL DOWN ON EACH OUTER SLEEVE



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

FIGURE 22: INSTALL 3/8" X 1" SCREW AND BUSHING



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

FIGURE 23: CENTER THE COVER



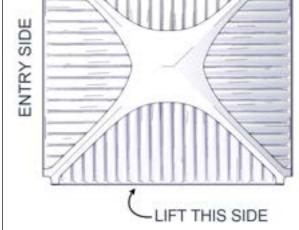
FIGURE 24: CHECK IF POSTS ARE LEVEL



AC LIGHT KIT INSTALLATION

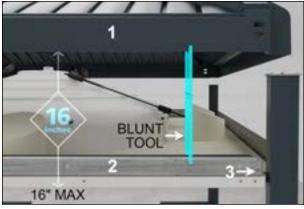
 Lift the side of the outer shell opposite to the light switch button (16" max) (*Figure 25*). To do so, push on the steel frame of the inner shell to clear the metal inserts from the outer shell (*Figure 26*).

FIGURE 25: LIFT ONE SIDE OF THE OUTER SHELL LIGHT SWITCH BUTTON LOCATION



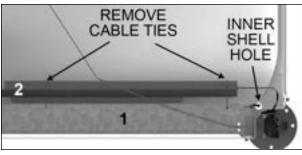
Always hold the outer shell at two different points spaced by about 34".





- 1 OUTER SHELL
- 2 STEEL FRAME (INNER SHELL)
- 3 METAL INSERT

FIGURE 27: REMOVE AND DISCARD BOTH CABLE TIES



	CTS-70 (Continuous Tension System)
2	WIRE GUARD

FIGURE 28: REMOVE WIRE GUARD FROM INNER SHELL (LET IT HANG DOWN)



Ensure the wire is clear of the inner and outer shells. It should only hang from the inner shell hole (*Figure 27*).





WARNING



ENSURE THE WIRE IS NOT CAUGHT IN THE POST OR TWISTED AROUND ANY OTHER OBJECT.

FIGURE 30: INSERT SLOTS OVER LOOSEN SCREWS

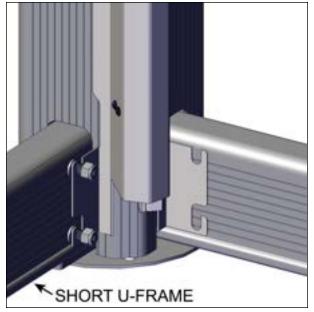


FIGURE 31: INSERT TAB BEHIND PLASTIC HOLDER

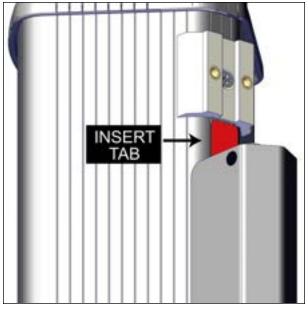


FIGURE 32: TIGHTEN BOTH SCREWS ON U-FRAME

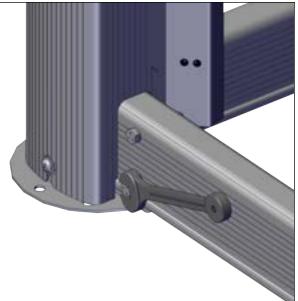
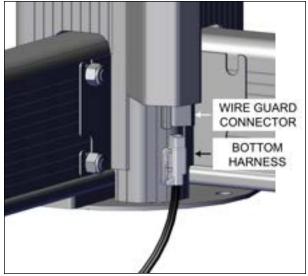


FIGURE 33: CONNECT BOTTOM HARNESS TO WIRE GUARD CONNECTOR



- Lower the cover on the spa.
 - If the exiting wire has sufficient tension and the magnetic plate is properly positioned (*Figure 34*), slide the outer shell back on the inner shell.
 - If not, loosen the tension holder screws and pull back the tension wire until a slight resistance is felt (*Figure* <u>35</u>). Once the resistance is felt, pull another inch. If the wire going to the post is tight enough, retighten the screws. Slide the outer shell back on the inner shell.

FIGURE 34: MAGNETIC PLATE PROPERLY POSITIONED

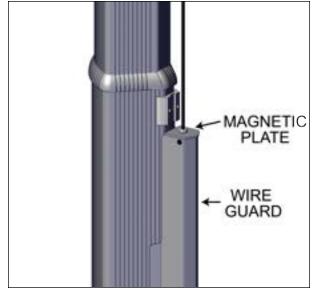
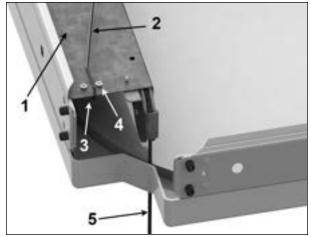


FIGURE 35: IF WIRE DOESN'T HAVE SUFFICIENT TENSION



- 1 CTS-70
- 2 TENSION WIRE (GOING TO LED)
- 3 TENSION HOLDER
- 4 SCREW
- 5 EXITING WIRE (GOING TO OPERATOR)

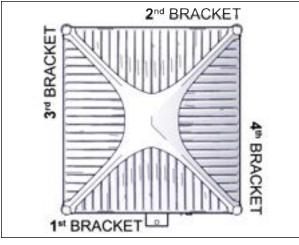
CAUTION



WHEN REINSTALLING THE OUTER SHELL, MAKE SURE THAT THE STEEL FRAMES ARE INSIDE THE OUTER SHELL. ALSO, CHECK ALL THE METAL INSERTS.

LIFTING MECHANISM INSTALLATION (PART 2)

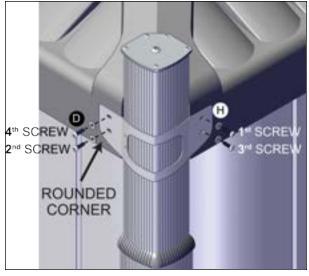
FIGURE 36: INSTALL OUTER CORNER BRACKETS FOLLOWING THIS PATTERN



WARNING

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

FIGURE 37: INSTALL CORNER BRACKET SCREWS FOLLOWING THIS PATTERN



D	M6 x 20 mm SCREWS
н	1/4" PAINTED WASHERS

CAUTION

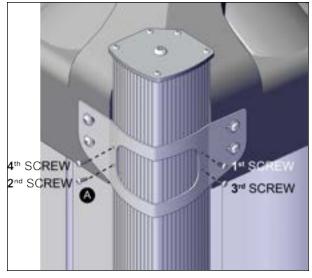
CHECK IF THE POSTS ARE LEVEL BEFORE DRIVING IN THE SCREWS; IT IS VERY DIFFICULT TO REPOSITION THE SLEEVES ONCE SCREWED.

NOTE

1

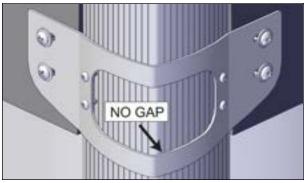
When fastening in the screws, pull the post towards you for a better fit of the corner bracket.

FIGURE 38: INSTALL CORNER BRACKET SCREWS FOLLOWING THIS PATTERN



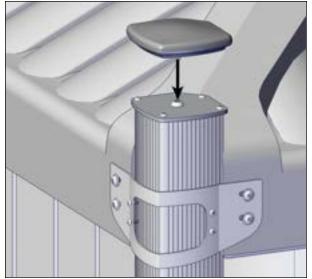
A No. 8 x 1/2" SELF-TAPPING SCREWS

FIGURE 39: AVOID GAP



• Repeat previous steps for each corner.

FIGURE 40: INSTALL RUBBER CAP ON EACH POST



TESTING THE COVER

• Plug in the cover.

FIGURE 41: NO OBJECT ALLOWED ABOVE COVER (SEE LIMIT SWITCH ADJUSTMENT SECTION)



FIGURE 42: RAISE 8" — MAKE SURE COVER LIFTS EVENLY



• Check the installation of the brackets by trying to lift each sleeve. Review Lifting Mechanism Installation section (part 2) for any broken screws or to retighten screws if the sleeve keeps moving (*Figure 43*).

FIGURE 43: CHECK BRACKET INSTALLATION

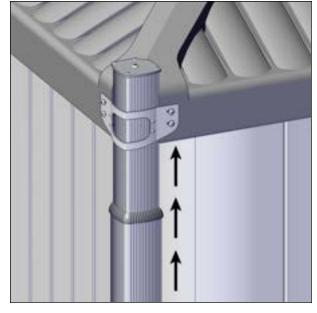
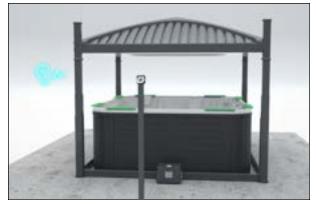


FIGURE 44: LOWER COVER — MUST TOUCH FOAM SPACERS



FIGURE 45: RAISE COVER — LISTEN FOR UNUSUAL SOUNDS



• Lower the cover and make sure it touches the foam spacers. If not, adjust the corner brackets.

FIGURE 46: LOWER COVER — MUST TOUCH FOAM SPACERS

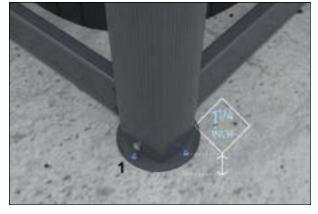


FIGURE 47: CHECK IF POSTS ARE STILL LEVEL



• Anchor jacks to the foundation (in at least one hole in the foot) and **insert at least 1¹/₄" deep**.

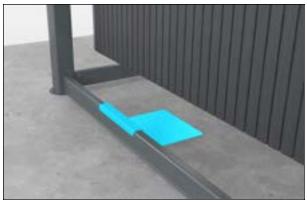
FIGURE 48: ANCHOR JACKS TO THE FOUNDATION



1/4" CONCRETE ANCHOR BOLT
0R
1/4" LAG BOLT FOR WOOD FOUNDATION

• If you cannot meet these requirements, install <u>NON- PERMANENT</u> <u>MOUNTING</u> <u>PLATES</u> <u>(OPTIONAL)</u>.

FIGURE 49: OR USE NON-PERMANENT MOUNTING PLATES



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.

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

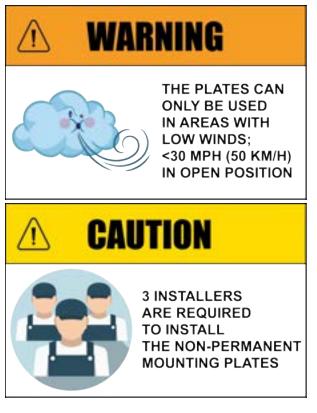
 Failure to properly install the key switch according to these instructions could result in injury or even death.



NON-PERMANENT MOUNTING PLATES (OPTIONAL)

NOTE

This setup is only available for spa base sizes larger than 82" wide for standard COVANA units and 87" wide for long side COVANA units.



- 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 51: INSTALL PLATES AS CLOSE AS POSSIBLE TO THE CORNERS

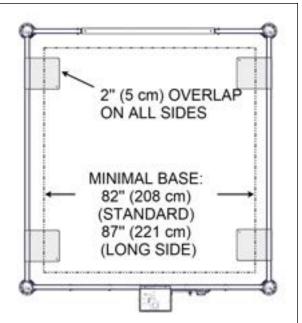
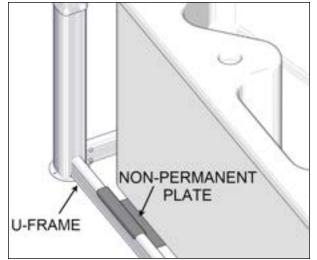


FIGURE 52: HOOK THE PLATES OVER THE U-FRAMES



SEAL INSTALLATION



- 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 53: REMOVE FOAM SPACERS AND TAPE

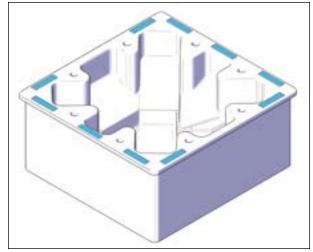
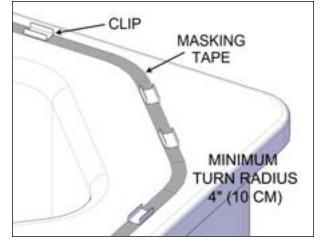


FIGURE 54: DRY TOP OF SPA AND UNDERSIDE OF COVER



FIGURE 55: APPLY MASKING TAPE CLOSE TO INTERIOR EDGE OF SPA, ON A FLAT SURFACE



• Distribute the clips around the spa (use two for the joint on the opposite side from the spa entrance). Once the distribution is done, stick them in place.

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

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

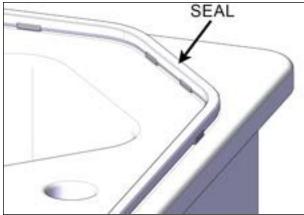
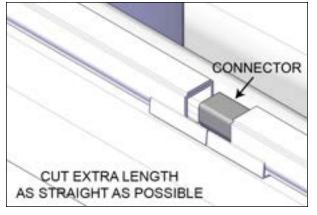


FIGURE 57: INSERT CONNECTOR IN BOTH ENDS OF THE SEAL



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 pedestal** 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 COVER 1/4" OVER SEAL TO TEST SEAL PLACEMENT



FIGURE 59: REMOVE RED BACKING OFF SEAL



FIGURE 60: COMPLETELY LOWER COVER FOR AT LEAST 5 MINUTES

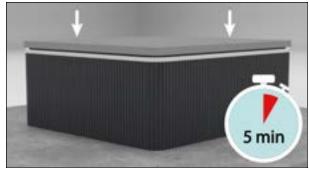


FIGURE 61: RAISE COVER 1/4" TO RELEASE SEAL FROM CLIPS



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



FIGURE 63: APPLY 15 PSI PRESSURE WITH J-ROLLER

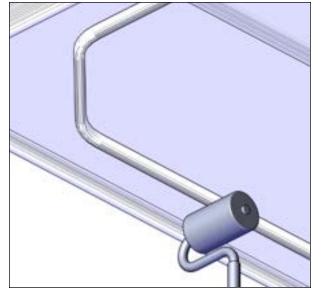


FIGURE 64: REMOVE CLIPS AND TAPE

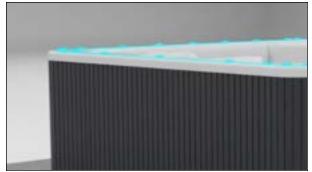


FIGURE 65: LOWER COVER 6" ABOVE SPA TO ENSURE CORNERS ARE AT SAME HEIGHT



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

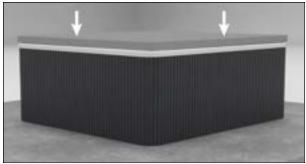


FIGURE 67: LEAVE COVER COMPLETELY CLOSED FOR AT LEAST 24 HOURS



FIGURE 68: WRITE DATE OF INSTALLATION ON OPERATOR LABEL

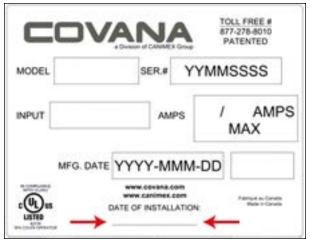


FIGURE 69: WRITE ADDRESS IN IMPORTER BOX (EUROPEAN MODEL SOLD IN SWITZERLAND)

KOBES.	OASIS, EVO	357.4	YYMMSSSS
THE STENENCE	GHSC	MPG. DATE	YYMMSSSS
(sole) on			LY MOVING SPA BIASED-OFF SWITCH
errea [2	30 auto 1 2	2.6 50	68 375 IP44

FIGURE 70: ATTACH YELLOW TAG TO COVANA KEY RING



• Complete the Customer's installation checklist as well as the Installer's installation checklist.

ELECTRICAL CONNECTIONS

GROUNDING AND POWER SUPPLY CONNECTIONS

- Remove the 4 screws on the bottom side of the operator cover and remove the cover (*Figure 72*).
- For the complete wiring diagrams refer to the Electrical diagrams section.

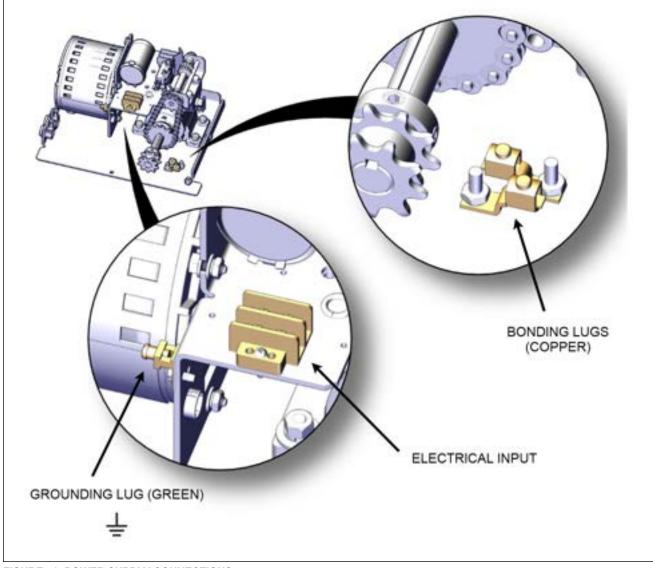
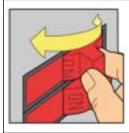


FIGURE 71: POWER SUPPLY CONNECTIONS

LIMIT SWITCH ADJUSTMENT



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 72: REMOVE OPERATOR COVER

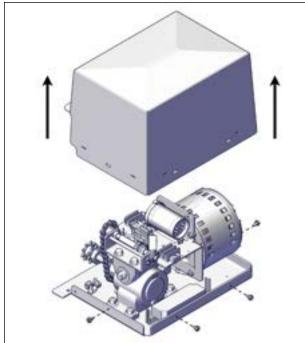
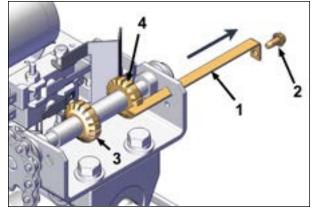
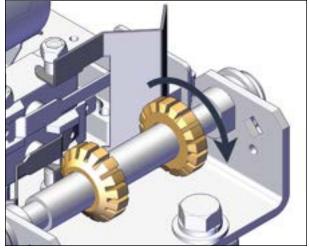


FIGURE 73: REMOVE SLOTTED SCREW AND CAM PLATE



- 1 CAM PLATE 2 SLOTTED SCREW
- 3 DOWN-CAM WHEEL
- 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 74: TURN 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.

11	NSTALLATION CHECKLIST (CUSTOMER COPY)							
С	heck each circle when completed:							
0	The base preparation steps are done correctly.							
0	The installation steps are done correctly.							
0	The seal is properly installed and there is no steam leaking out around the cover.							
0	The key switch is permanently installed at least 5 ft (1.5 m) away from the spa and 5 ft (1.5 m) from the ground.							
0	The electrical portion of the installation was done by a certified electrician.							
0	All parts supplied and included into the crate are installed.							
0	The start-up procedure is completed.							
0	The four jacks have been properly anchored to the foundation OR a set of non-permanent mounting plates has been installed.							
0	The all-weather seal works properly.							
0	The middle sleeves slide freely (Manually slide the middle sleeve up and down when the cover is half open).							
0	The date of installation has been written on the technical specifications label.							
0	The yellow tag is attached to the COVANA key ring.							
S	erial number:Date (YYYY/MM/DD):							
In	istaller name: Signature:							
С	Customer name: Signature:							
С	ustomer address:							
D	Date (YYYY/MM/DD):							

Retailer name : _____

I	NSTALLATION CHECKLIST (INSTALLER COPY)								
С	heck each circle when completed:								
0	The base preparation steps are done correctly.								
0	he installation steps are done correctly.								
0	The seal is properly installed and there is no steam leaking out around the cover.								
0	The key switch is permanently installed at least 5 ft (1.5 m) away from the spa and 5 ft (1.5 m) from the ground.								
0	The electrical portion of the installation was done by a certified electrician.								
0	All parts supplied and included into the crate are installed.								
0	The start-up procedure is completed.								
0	The four jacks have been properly anchored to the foundation OR a set of non-permanent mounting plates has been installed.								
0	The all-weather seal works properly.								
0	The middle sleeves slide freely (Manually slide the middle sleeve up and down when the cover is half open).								
0	The date of installation has been written on the technical specifications label.								
0	The yellow tag is attached to the COVANA key ring.								
S	erial number:Date (YYYY/MM/DD):								
Ir	Installer name: Signature:								
С	Customer name: Signature:								
С	Customer address:								
D	Date (YYYY/MM/DD):								

Retailer name : _____

OWNER'S MANUAL

OPERATE THE COVER

1 WARNING



READ THESE SECTIONS BEFORE USING THE COVER:

- IMPORTANT SAFETY
 INSTRUCTIONS
- MANUAL OPERATION
- OF THE COVER

RAISING/LOWERING THE COVER WITH THE KEY SWITCH



DANGER

Make sure the key switch has been:

- Permanently mounted 5 ft away from the spa and 5 ft above the deck or ground level.
- Located in a location where no water downpour or debris could fall on it.

WARNING

Before operating the cover, make sure that:

- All debris and snow are removed from the cover.
- 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.
- To raise the cover, press and hold the button while turning the key UP (↑ arrow).

- To lower the cover, press and hold the button while turning the key DOWN (♥ arrow).
- Install the rubber cap back on the key switch after each use.

NOTE

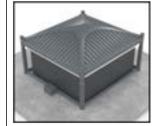
The cover will automatically stop in both the fully open and fully closed position.





USERS MUST BRING THE KEY IN THE SPA WITH THEM TO PREVENT ANY UNAUTHORIZED OPERATION OF THE COVER.

IMPORTANT NOTE



KEEP THE COVER FULLY CLOSED WHEN NOT IN USE.

LED LIGHT KIT

To operate the lighting system, press the push button located under the cover.

The lighting system operates in 2 different modes:

- Color locked
- Color wheel

FIGURE 75: SWITCH LIGHTS OFF AND IMMEDIATELY BACK ON TO SELECT MODE



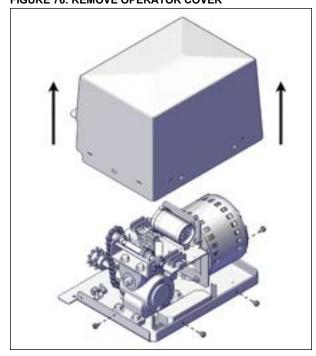
IMPORTANT NOTE



ALWAYS TURN THE LIGHTS OFF WHEN NOT IN USE.

MANUAL OPERATION OF THE COVER

MARNING Disconnect or turn OFF POWER SUPPLY BEFORE STARTING ANY WORK ON THE COVER. ALL ELECTRICAL WORK SHOULD BE PERFORMED BY A QUALIFIED ELECTRICIAN.

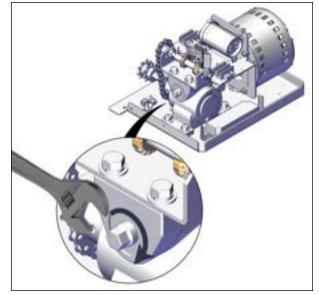


• Slowly turn the extension shaft clockwise to lower the cover, or counterclockwise to raise it. Stop immediately if any tension occurs.

WARNING

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

FIGURE 77: USE WRENCH TO TURN EXTENSION SHAFT



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

WIRE GUARD REASSEMBLY

Reassemble the wire guard harness if the magnetic plate came off to let the wire out.

FIGURE 78: CHECK IF WIRE HAS BEEN DAMAGED

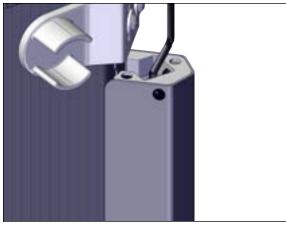
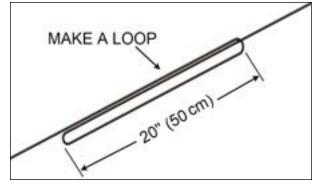


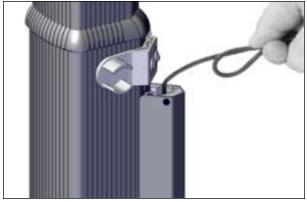
FIGURE 79: FOLD WIRE IN TWO TO CREATE A 20" LOOP



WARNING

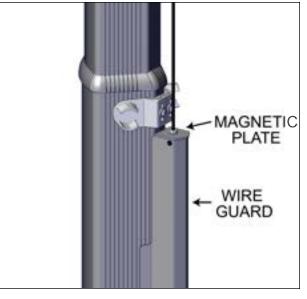
- Do not tape or fix the wire together.
- Ensure the wire is not caught in the post or twisted around any object before proceeding.

FIGURE 80: THREAD LOOP IN WIRE GUARD



• Reinstall the plate on top of the wire guard. The wire should have sufficient tension and look straight.

FIGURE 81: FINAL ASSEMBLY SHOULD LOOK LIKE THIS

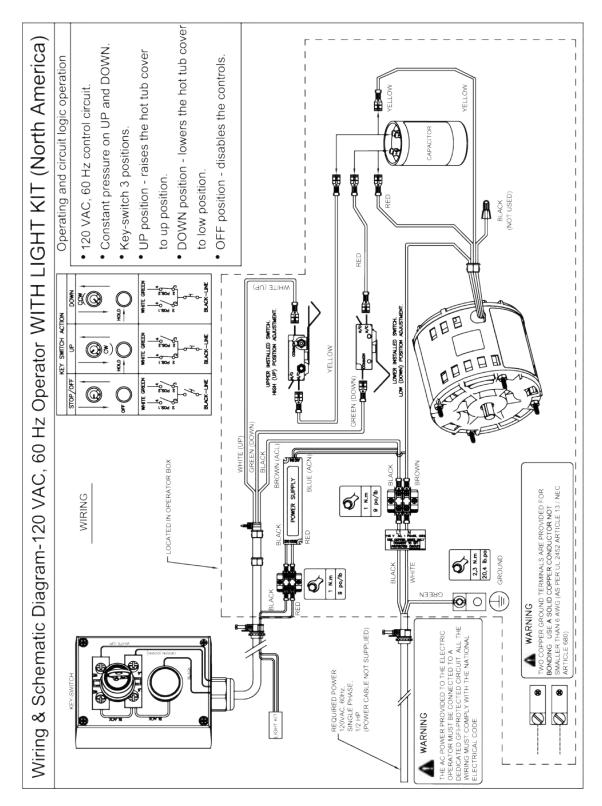


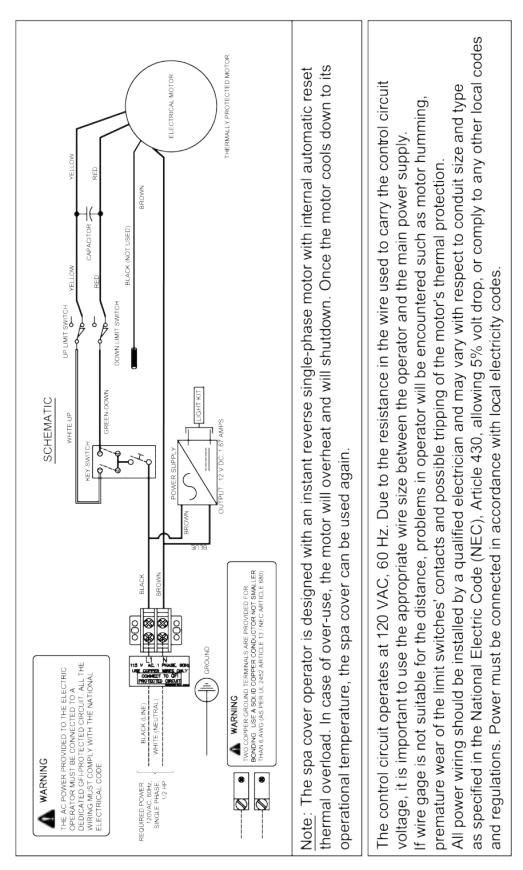
• Operate the cover by cycling it up and down. If the plate still comes off due to excessive tension, consult the Troubleshooting section or call your local Covana retailer.

ELECTRICAL DIAGRAMS

ELECTRICAL DIAGRAMS

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

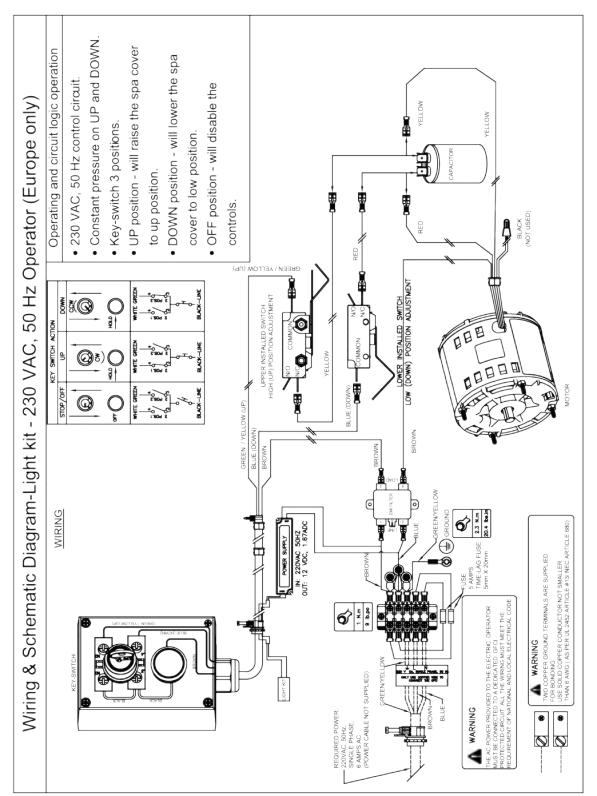


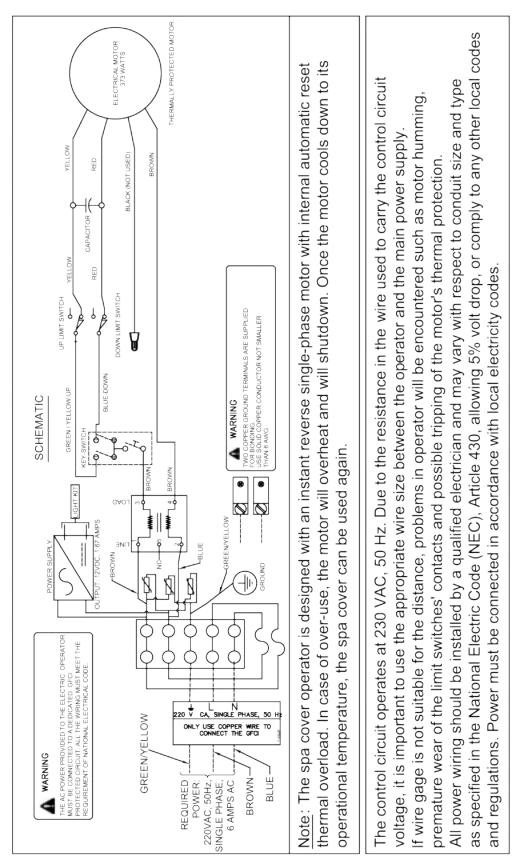


Brevet en instance / Patent Pending www.covana.com

252464

WIRING DIAGRAM (EUROPE) (LIGHTS) - 50 HZ, 230 VAC OPERATOR





Brevet en instance / Patent Pending www.covana.com

REVISION 1

MAINTENANCE

The lifespan of this product depends on the time invested in its maintenance.

CAUTION

WINTERIZING

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.

- 1. Clean the cover to remove any dust, greasy residue or any other dirt from all surfaces.
- 2. Prepare the spa for closure by following the spa manufacturer's winterization instructions.
- 3. Close the cover. Make sure the seal touches the whole perimeter of the spa.
- 4. Turn off and secure the power supply of the cover.
- 5. Install a waterproof canvas on the cover, and another on the operator.

CAUTION

Using any type of fabric or plastic canvas on the cover during hot weather may damage its components. Only use such protection for the winterization procedure and during the cold season; remove it as soon as seasonal temperatures are higher than the freezing point.





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

WASHING THE COVER

Clean the cover as needed or when dirt, debris or leaves are present.

TOOLS AND PRODUCT TO USE

- 1% solution of household dish soap. The cleaner is required to have a neutral pH (6.5-7.5 range)
- Soft plastic brush
- Sponge
- Cloth

METHOD:

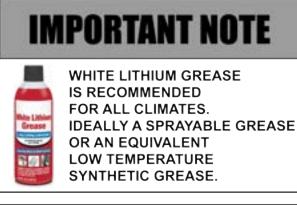
- 1. Rinse the cover with water to remove any large accumulated debris.
- 2. Apply the soap solution in a scrubbing or circular motion using a sponge, cloth or soft plastic brush.
- 3. Quickly rinse very thoroughly to remove all traces of soap; otherwise, a film will build up giving the cover a dull, dirty appearance.

WARNING

- Never use a pressure washer or high pressure to clean the cover as it could puncture the outer shell.
- Never use harsh detergents that may cause a chemical reaction and permanently damage the surface.
- Do not use abrasive cleaners.
- Do not use a cleaner or stain remover that contains chlorinated hydrocarbons or aromatic hydrocarbons.

POST GREASING

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



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 82: REMOVE RUBBER CAP FROM EACH POST

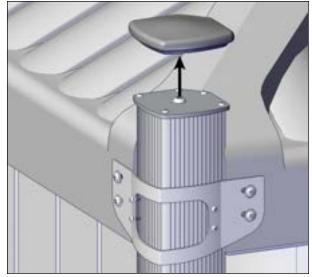
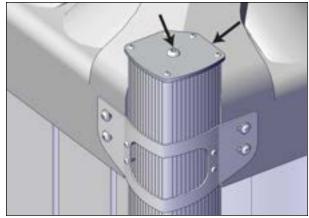


FIGURE 83: REMOVE TOP PLATE FROM EACH POST (6 SCREWS AND 1 BUSHING)



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

FIGURE 84: RAISE JACKS ALL THE WAY UP WITH KEY SWITCH



FIGURE 85: SPRAY GREASE ON SLIDING PARTS AND MECHANICAL COMPONENTS OF EACH JACK

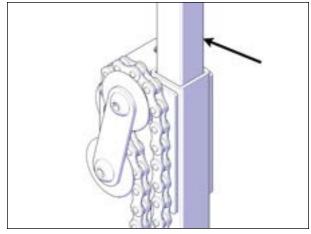
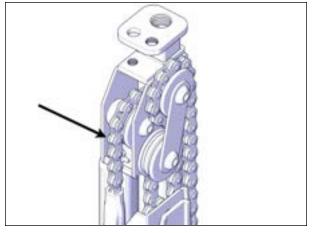


FIGURE 86: INSPECT CHAINS FOR SIGNS OF DETERIORATION



- 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 87: TWO CHAINS ARE ATTACHED TO THE OPERATOR (LEFT AND RIGHT)

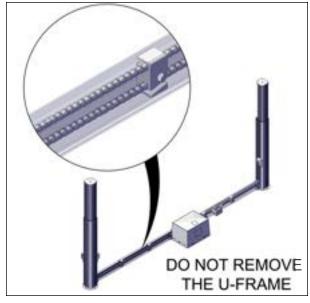


FIGURE 88: PARTIALLY UNSCREW THE SCREW AT THE BASE OF THE EXTERNAL SLEEVE

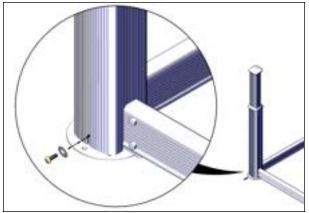
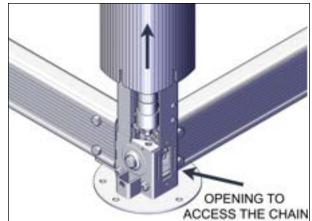


FIGURE 89: MANUALLY RAISE SLEEVE AND KEEP IT UP WITH WOODEN BLOCK



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

FIGURE 90: LOWER SLEEVE AND TIGHTEN SCREW



• Repeat previous steps with the opposite post.

PERIODIC MAINTENANCE TABLE

			Frequ	lence	
ltem	Tasks	Each use	Weekly	Every 3 months	Yearly
	Perform a visual inspection (debris, snow, ice, etc.).	~			
Cover	Listen to any unusual noises during operation.				
	Wash with a mild detergent (i.e., dishwashing detergent) and water. Rinse well using only water.				
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.		~		
Lifting mechanism	Raise and lower the cover.		\checkmark		
Anchors	Check anchoring of cover.*				\checkmark
GFCI	Test GFCI.			\checkmark	
Chaina	Check tension of each post and in U- frames.*				~
Chains	Lubricate chains in each post and in the U-frames.*				•
Jacks	Grease the jack assemblies.*				\checkmark

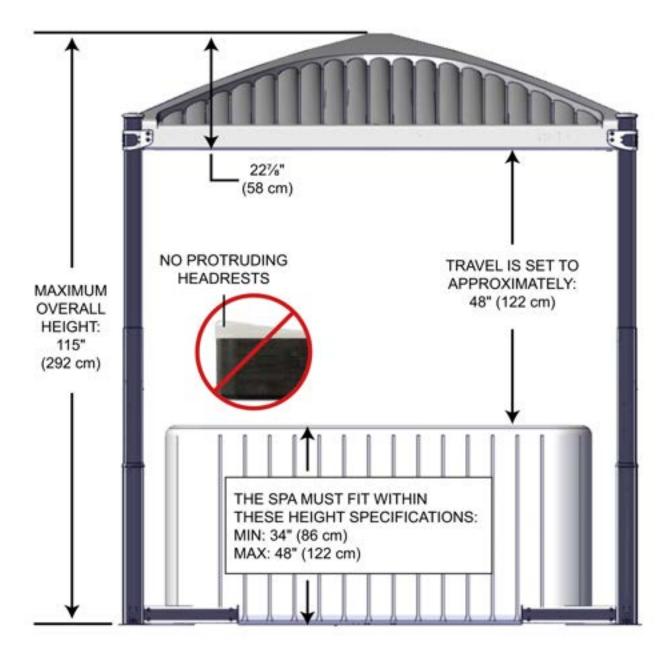
*Contact your local Covana retailer.

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

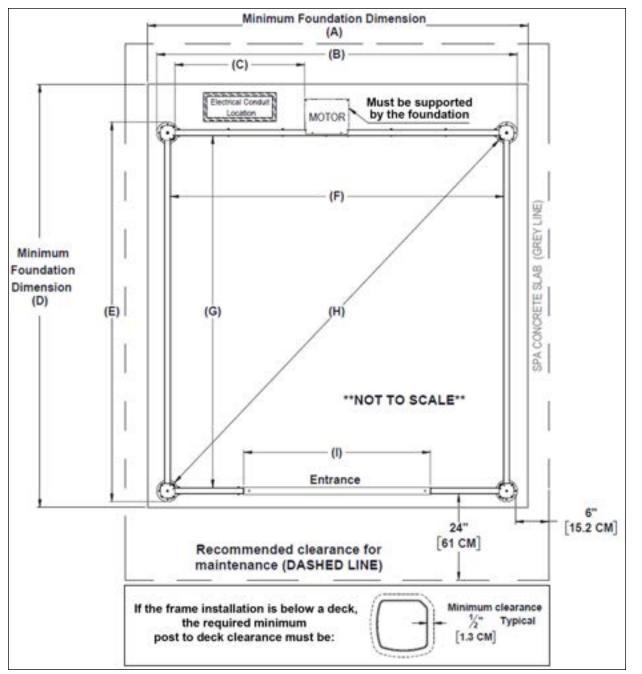
TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS

COVANA COVER FRONT VIEW

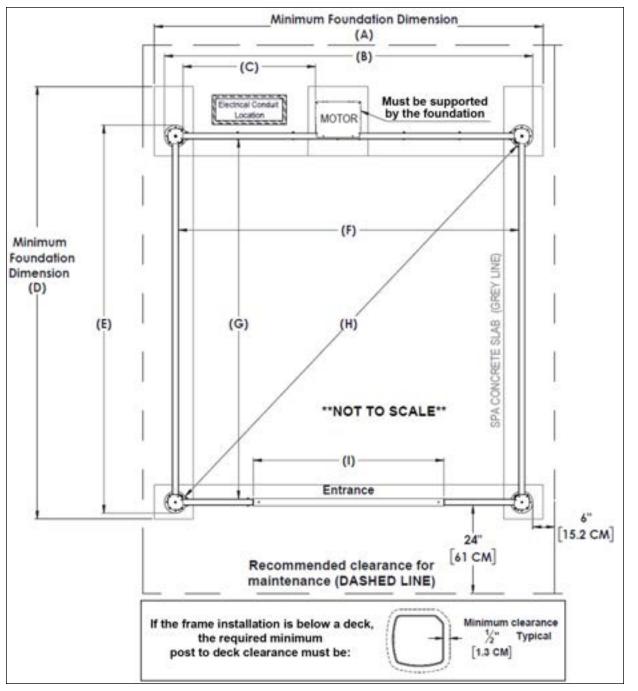






INCH (mm)	Α	В	С	D	Е	F	G	Н	I
STANDARD	106	100.5	36.1	118	105.75	93	98	130.75	52
MODEL	(2692)	(2553)	(917)	(2997)	(2686)	(2362)	(2489)	(3321)	(1321)
LONG SIDE	112	105.75	38.7	113	100.5	98	93	130.75	57
MODEL	(2845)	(2686)	(983)	(2870)	(2553)	(2489)	(2362)	(3321)	(1448)

CONCRETE SLAB LAYOUT OPTION



INCH (mm)	Α	В	С	D	Е	F	G	Н	Ι
STANDARD	106	100.5	36.1	118	105.75	93	98	130.75	52
MODEL	(2692)	(2553)	(917)	(2997)	(2686)	(2362)	(2489)	(3321)	(1321)
LONG SIDE	112	105.75	38.7	113	100.5	98	93	130.75	57
MODEL	(2845)	(2686)	(983)	(2870)	(2553)	(2489)	(2362)	(3321)	(1448)

ELECTRICAL SPECIFICATIONS

The cover requires a dedicated single phase 115 VAC (North America) or 230 VAC (Europe) 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			

EUROPEAN REQUIREMENTS

Voltage	230 V, 50 Hz (2, 1 ground)
GFCI	10 A single-pole GFCI (not included)
Current draw	Max 6 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.

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.The power source is disconnected.	 Reset the GFCI. 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. Jack assemblies are jammed. The motor is obstructed. Posts are obstructed. The debris on the cover is too heavy. 	 Remove all the debris from the top of the cover. Verify whether any posts are obstructed. Use methanol to free ice buildup on posts. Apply grease on the post assemblies. Verify the relative position of the four posts (See Foundation Preparation section). 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. The chain skipped during operation. A spring pin at the bottom of a jack is broken. A drive shaft has fallen off. Excessive weight on one side of the cover. 	 Lower the cover and replace the chain. Replace any missing or broken spring pin by lifting the outer sleeve, using an awl and a hammer.
The shades are loose, retract improperly and/ or disconnect 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. Holding bracket not parallels. 	 Consult shade installation manual. Remove the bottom bar and reset the tension back to "4 turns". Make sure the outer sleeves are sitting on the foot plate, reposition the holding bracket so the roller shade is moving straight.

PROBLEM	PROBABLE CAUSES	SOLUTIONS
		• Verify the position of the all-weather seal. While cover is closed, it must be sitting on the top of the outer sleeve.
The middle sleeve has gripped and	Posts are frozen.	Check whether the stopper kit is broken/missing.
might have dropped abruptly	• The stopper kit is broken/missing.	Reinstall the sleeves.
		Check level on 2 faces of the sleeve.
		If all previous attempts failed, contact your local authorized Covana retailer
The cover raises unevenly.	 The chain is broken. A spring pin is broken. A drive shaft has fallen off. Posts are gripped. 	 Call your local certified Covana retailer for technical support. Do not operate the cover.
Cover raises but does not lower.	 The cam plate is incorrectly positioned or missing. The key switch is faulty. Limit switches cannot move properly. 	 Remove power before performing any electrical work. Ask a 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. Open the key switch and check for faulty switch. Check if any electrical cables are damaged or pinched.
Cover lowers but does not raise.	 The cam plate is incorrectly positioned or missing. The key switch is faulty. Limit switches cannot move properly. 	 Remove power before performing any electrical work. Ask a 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. Open the key switch and check for faulty switch. Check if any electrical cables are damaged or pinched.

PROBLEM	PROBABLE CAUSES	SOLUTIONS
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.The light switch is faulty.	 Check if the power source is enabled. Replace the light switch. If all previous attempts failed, contact your local authorized Covana retailer.
Magnetic plate is not holding in place.	 Excessive tension in the Constant Tension System (CTS 70). CTS 70 is stuck in place. 	 Lift the side of the outer shell where the cable exits from the inner shell; remove the CTS 70 from the steel frame and grease the interior surfaces. Check that the CTS 70 pulley carrier can travel the length of the CTS 70 without interfering with any object.