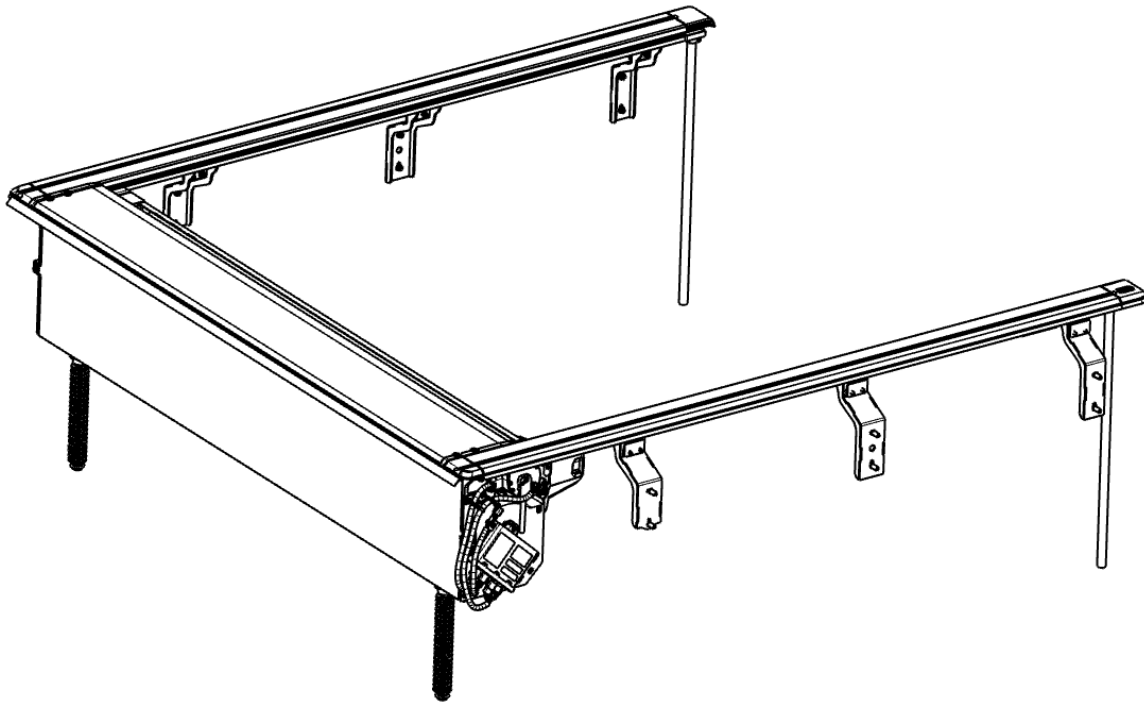


Installation Instruction for Electric Roller Shutter

Ram 1500 (19-25) /1500 TRX (21-24) | 5'7" Bed



Estimated install time: 100 minutes

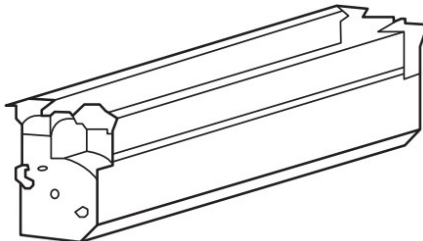
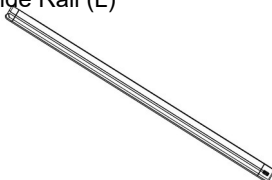
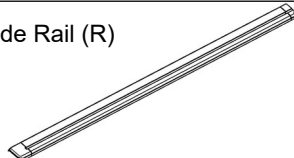
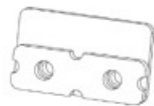
Before Installation

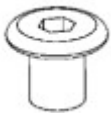
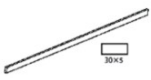
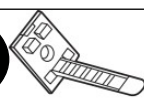
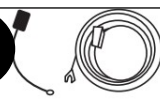
Please read the instruction completely for easy installation, which will also help you to avoid scratches or other potential damages to your appealing car.

Please periodically check and retighten all the hardware and clean the investment for a refresh look.

The figures here are for reference only and may have differences with the actual product you received, however they share the same assembly way.

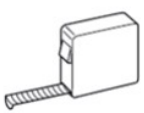
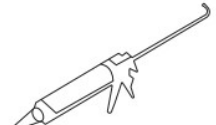
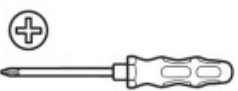
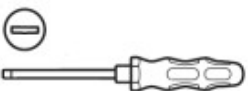
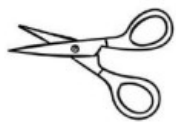
PART LIST

A  Canister Assembly	B  Side Rail (L)			
		C  Side Rail (R)		
D  Canister cover plate	E  Standard bar	1  6-1.00mm x 16mm Torx Bolt x 6	2  6-1.00mm x 20mm Torx Bolt x 30	
3  6mm T-channel Nut Block x 6	4  6mm Rivet Nut x 12	5  Double Nut Support Brackets x6	6  Front Mounting Brackets x2	
7  Rear Mounting Brackets x2	8  Rear Mounting Brackets x2	9  Front Drain Tube Adapter x 2	10  Front Drain Tube x 2	
11  Tube Clamp x 2	12  Rear Drain Tube x 2	13  Rubber O-Ring x 2	14  Motor Clutch Handle x 1	
15 				

 5mm x 8mm Flat Head Screw x 4		Plastic Ring x 4	
19  Bed Front Gap Foam Spacer x 1	20  Adhesion Promoter x 1	21  Fastening Buckle x 8	22  Nylon Ties x 10
23  S3 Allen Wrench x 1	24  T30 Torx Wrench x 1	25  Power Cable x 1	26  PKE Key Fob Remote x 2
27  ECU wiring (A+B) x1			



Tools and materials needed

 Tape measure	 Ratchet	 10mm Socket	 13mm Socket	 10mm Wrench	 13mm Wrench	 Caulking Gun
 Phillips Screwdriver	 Flat Screwdriver	 Scissors				

Installation Steps

STEP 1

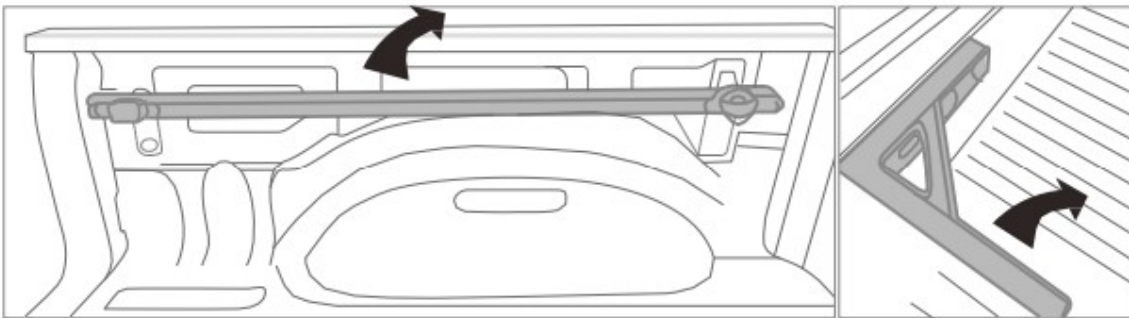
REMOVE FROM PACKAGING AND REVIEW CONTENTS

Carefully remove all contents from outer package, open all boxes contained within and confirm that all components are present and undamaged

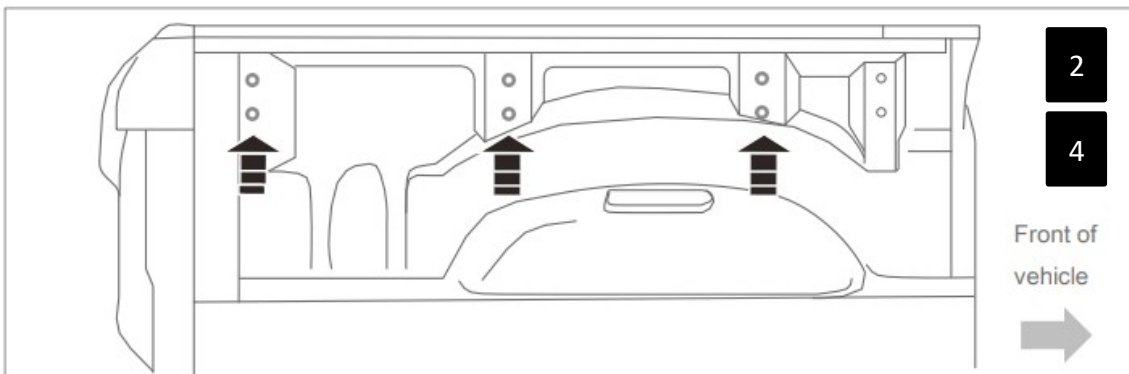
STEP 2

PREP TRUCK BED FOR INSTALLATION

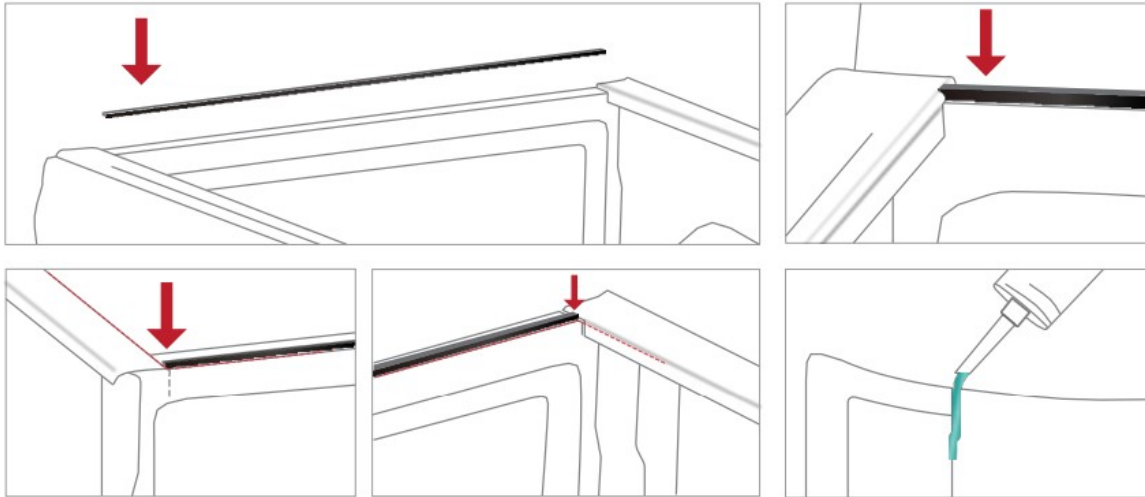
If the truck is equipped with bed-mounted utility tracks, remove them now using a 10mm wrench or a 10mm socket with a ratchet. The utility tracks will not be reinstalled. If the truck is equipped with reinforcement brackets located at the front corners of the bed, they must also be removed and will not be reinstalled



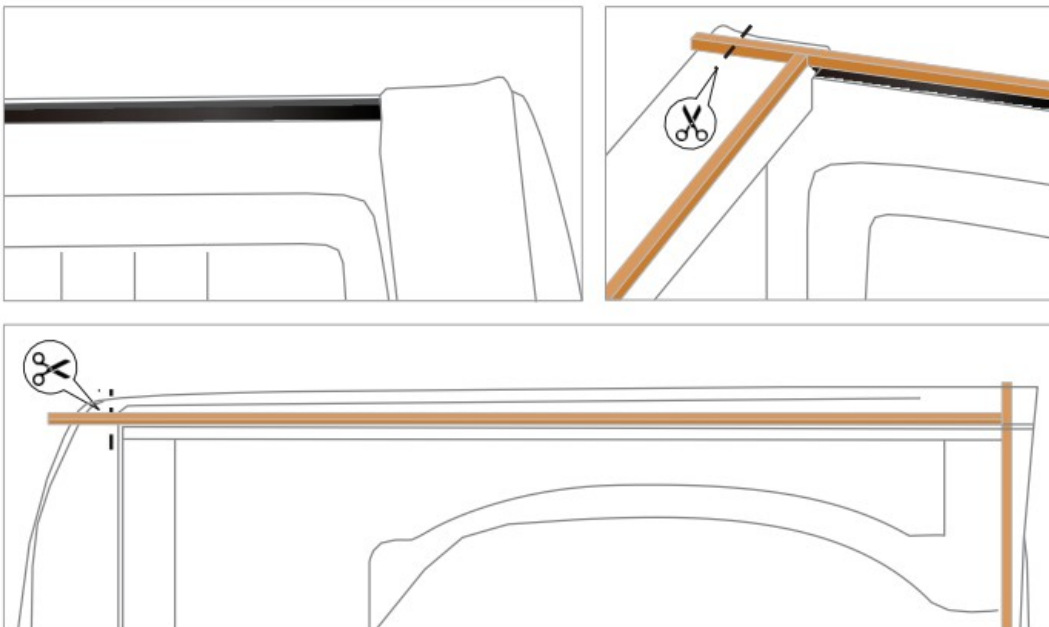
If the truck does not have threaded inserts installed in the bed sides, identify the mounting points on the side of the bed and install the supplied 6mm inserts using the threaded insert installation tool included in the hardware kit. Each side of the bed will require six (6) inserts to be installed, two per mounting location



Clean the top of the plastic bed caps and top of front bed bulkhead of dirt/debris. Install the front bulkhead seal (hard foam seal) across the top of the front bulkhead.



Install the water-resistant seals (soft foam seals) across the top of the front bulkhead (on top of the bulkhead seal) and the plastic bed caps. The seal applied to the front bulkhead will span the whole width of the truck bed, the seals applied to the plastic bed caps should be positioned as close to the inner edge of the bed as possible. Trim off any excess. A small amount of sealant may be used at the corners of the front bulkhead to improve water resistance.

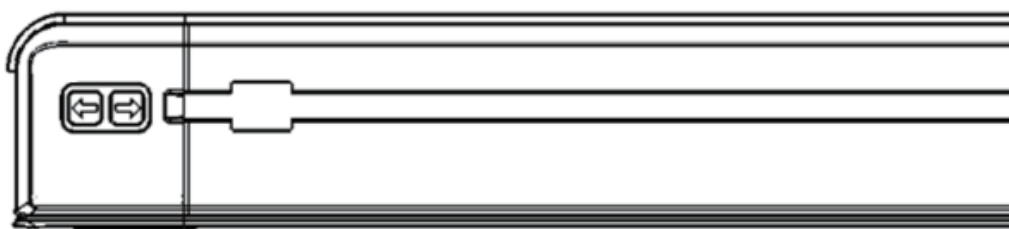


STEP 3

INSTALL SIDE RAILS

Remove the protective plastic wrapping from the side rails and identify the driver and passenger side rails. The driver side rail will have the buttons to operate the tonneau cover at the end

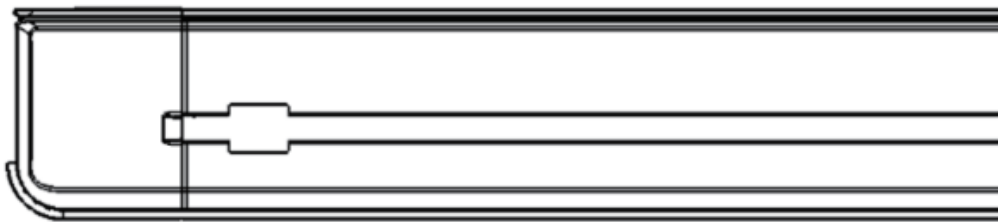
Left Rail



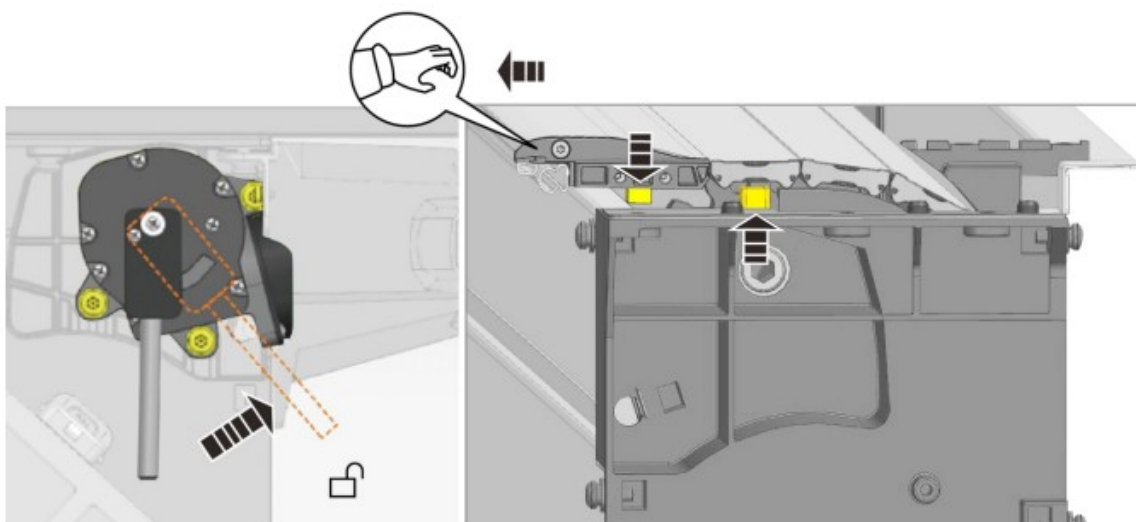
Tailgate End

Right Rail

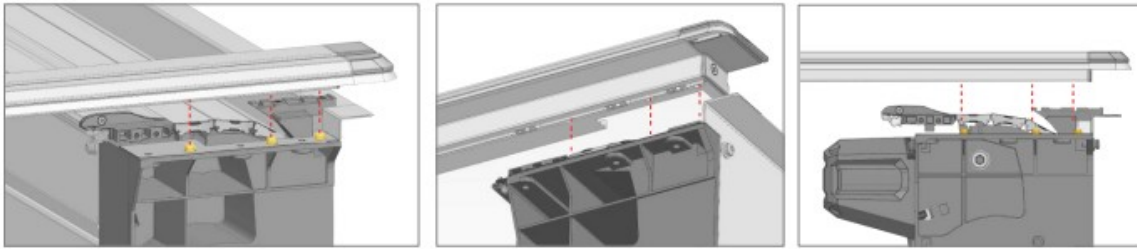
Cab End



Lift the motor clutch handle to disengage the motor, and carefully pull the tonneau cover out from the canister and ensure that the stopper on the tonneau cover is in front of the limit block on the canister

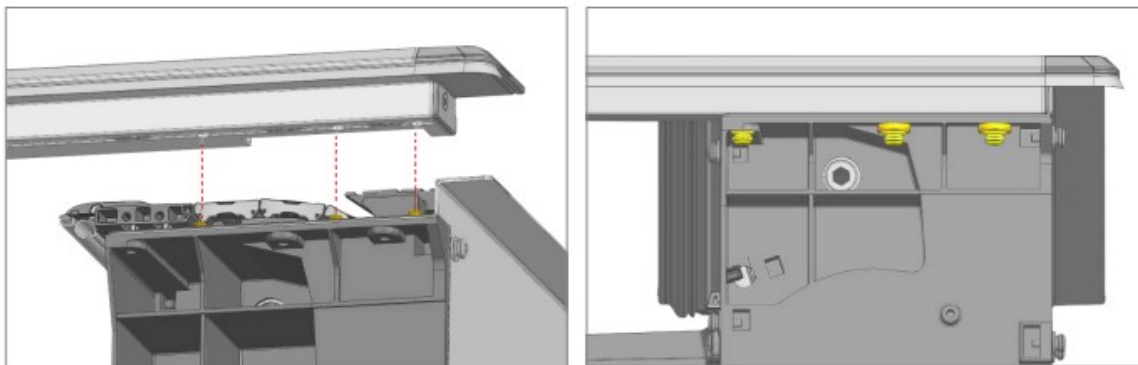


Line up the side rail with the canister and carefully slide it inward, ensuring that the ends of the tonneau cover slats are properly inserted into the side rail channel. It may be necessary to lift up part of the side rail sweep seal so that it stays on top of the tonneau cover slats and does not get tucked in

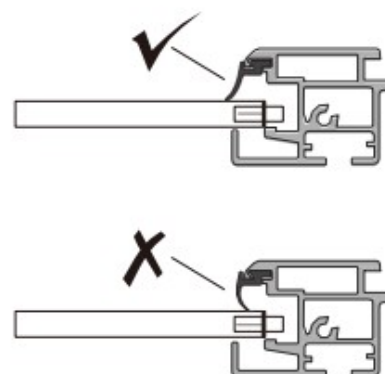
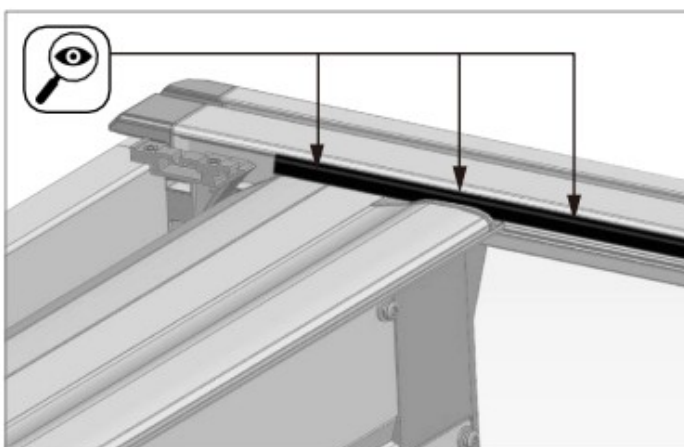


Check that the side rail is sitting flush on top of the canister, then use three (3) 6-1.00mm x 20mm T30 torx bolts to install the side rail onto the canister.

Repeat this process to install the other side rail Note: The top of the original shipping package may be used to hold up the ends of the side rails to help make this part of the installation easier

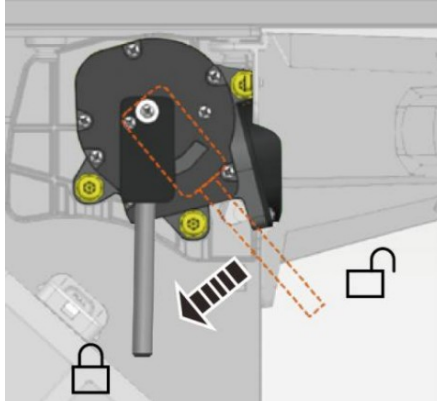


Assembly way is same on both sides.



CHECK SEAL IS IN POSITION AND NOT DAMAGED

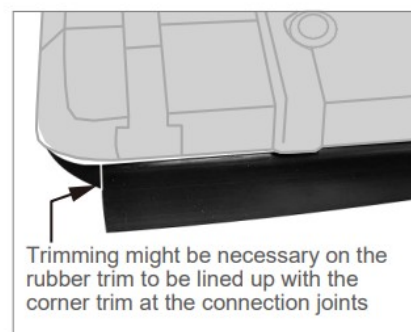
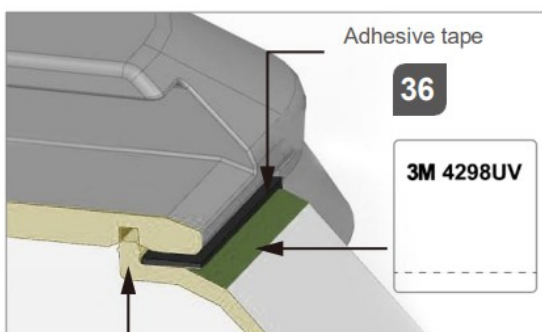
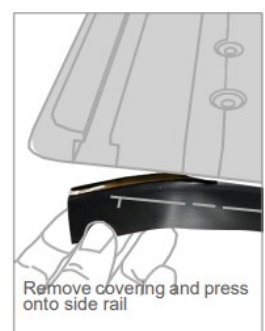
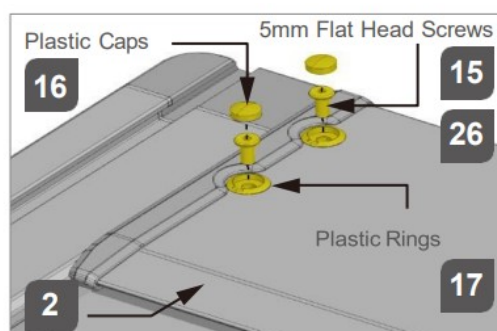
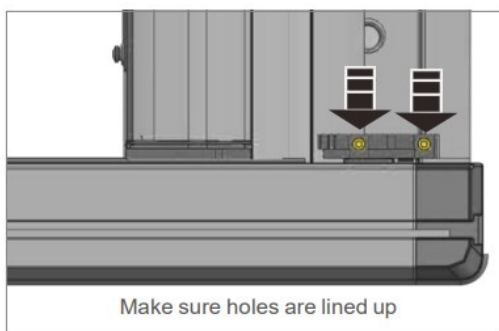
Pull the clutch handle downward to engage the motor.



Canister LHS view

STEP 4 INSTALL CANISTER COVER PLATE

Place the canister cover plate on top of the canister and make sure the mount holes line up with the mount points on the canister. Place one (1) plastic ring into each hole on the canister cover plate, then use four (4) 5mm x 8mm flat head screws to attach the canister cover plate to the canister. Remove the covering over the adhesive strips on the ends of the weather seal and press onto the bottom of the side rails, ensuring that the groove on the weather seal is inserted into the slot on the side rail. A small amount of sealant may be used to connect the joints of the rubber trims for improved water resistance

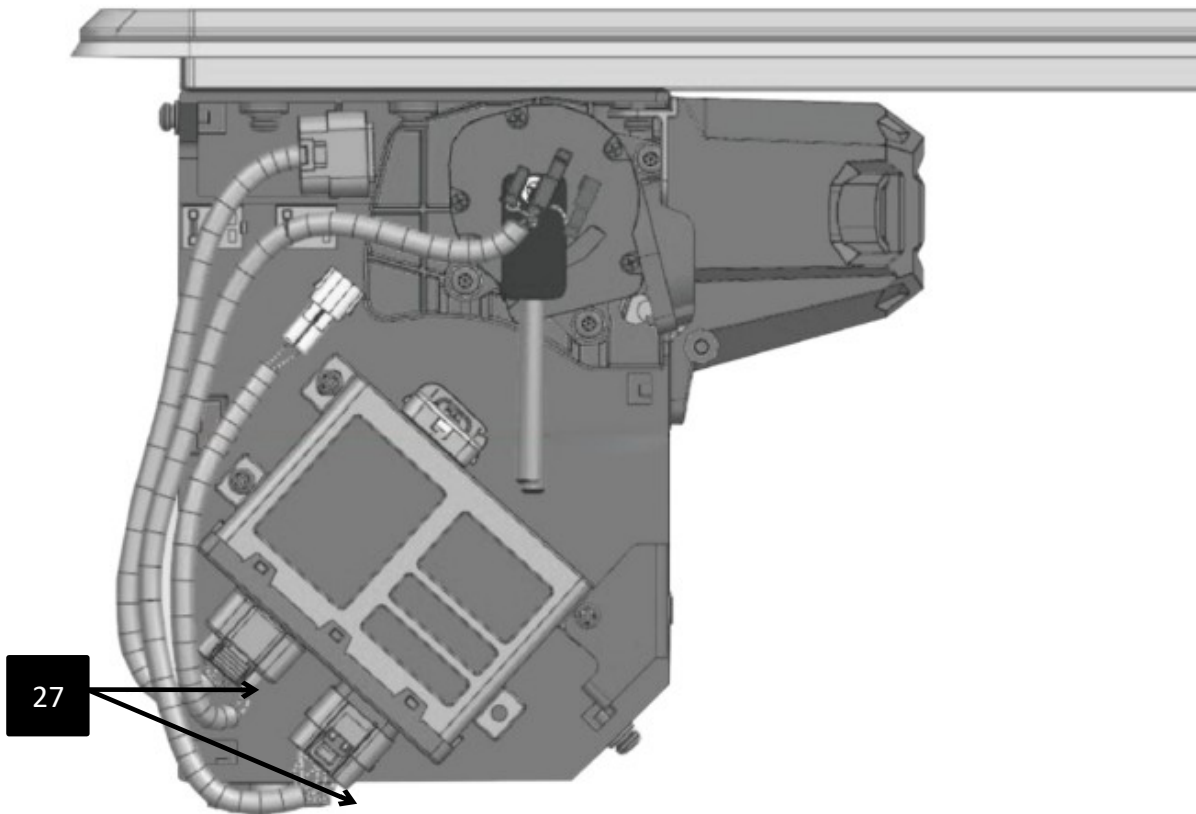


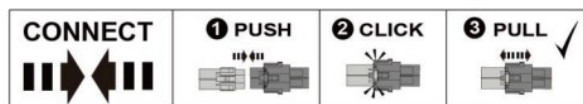
Slide into the slot

STEP 5

CONNECT WIRE HARNESS ON TONNEAU COVER

All wire harness leads are labeled and have unique male/female connections. Connect the two large connectors on the ECU main harness to the bottom of the ECU. Identify the smaller leads on the ECU main harness and connect each one to the corresponding lead on the tonneau cover/side rail. Use the fastening buckles to organize the wire harness. The connector for the power harness will remain unplugged at this time



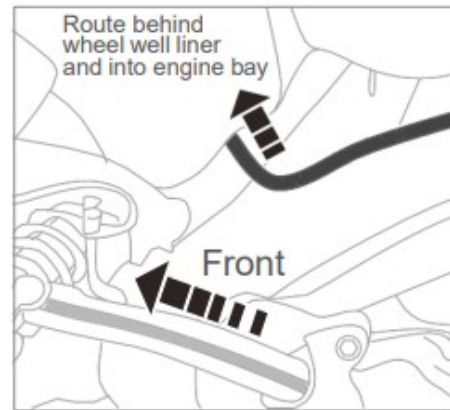
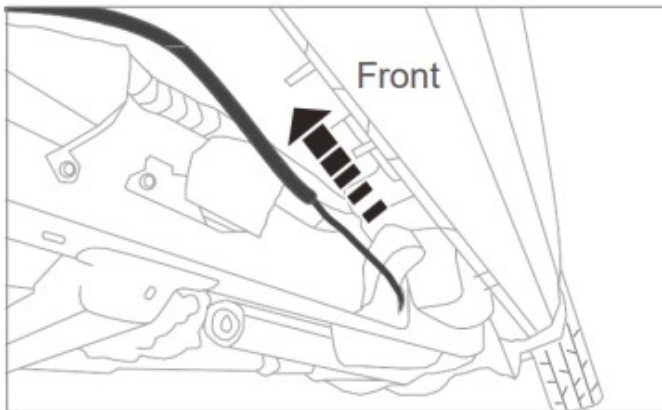
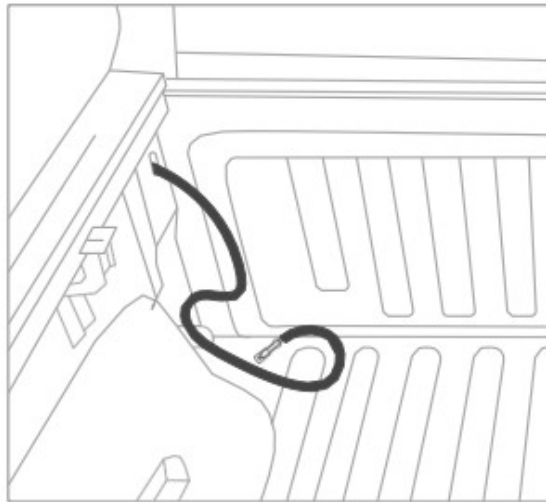
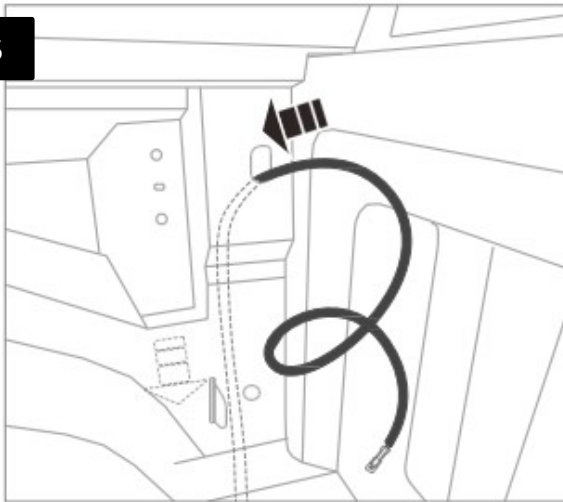


PULL THE CONNECTORS
NOT THE CABLE

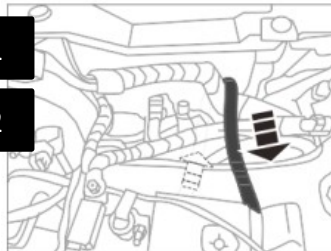
STEP 6 ROUTE THE POWER HARNESS

Remove the plastic plug from the top driver side of the bed. Route the power harness out of the bed through this hole, down the length of the vehicle frame, up into the engine bay, and to the vehicle battery on the passenger side. Using wire ties, secure the wire harness so it does not come into contact with moving parts or exhaust pipes. Keep the wire harness as high as possible along the frame to prevent damage while driving. Use wire ties to secure the wire harness along the frame. Leave about 1.5ft. of the power harness loose in the bed. Remove the fuse from the fuse holder, do not connect the power harness to the vehicle battery at this time **INSTALLATION INSTRUCTIONS TONNEAU COVER** All wire harness leads are labeled and have unique male/female connections.

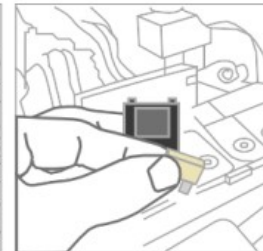
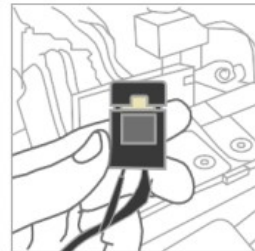
25



21



22



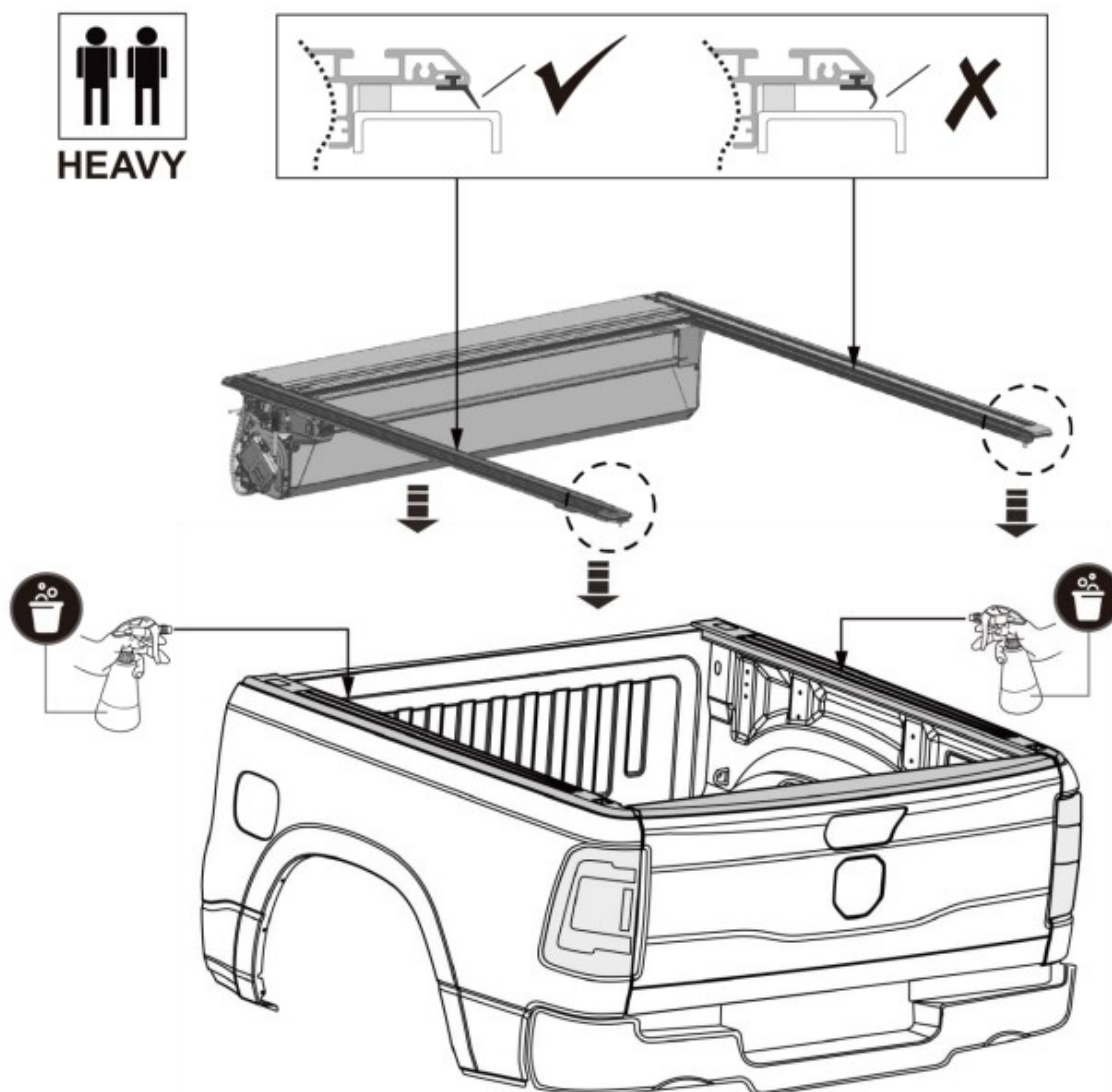
Open fuse holder cap and remove fuse

STEP 7 INSTALL TONNEAU COVER ON TRUCK BED

With assistance, carefully lift the tonneau cover assembly and place it on top of the truck bed.

Do not slide the tonneau cover along the bed as this will damage the foam seals. Leave the front of the tonneau cover about 1ft from the front of the bed and connect the power harness to the connector on the ECU main harness. Carefully lift the tonneau cover and position it as far forward as possible without touching the front of the bed. Leave a small

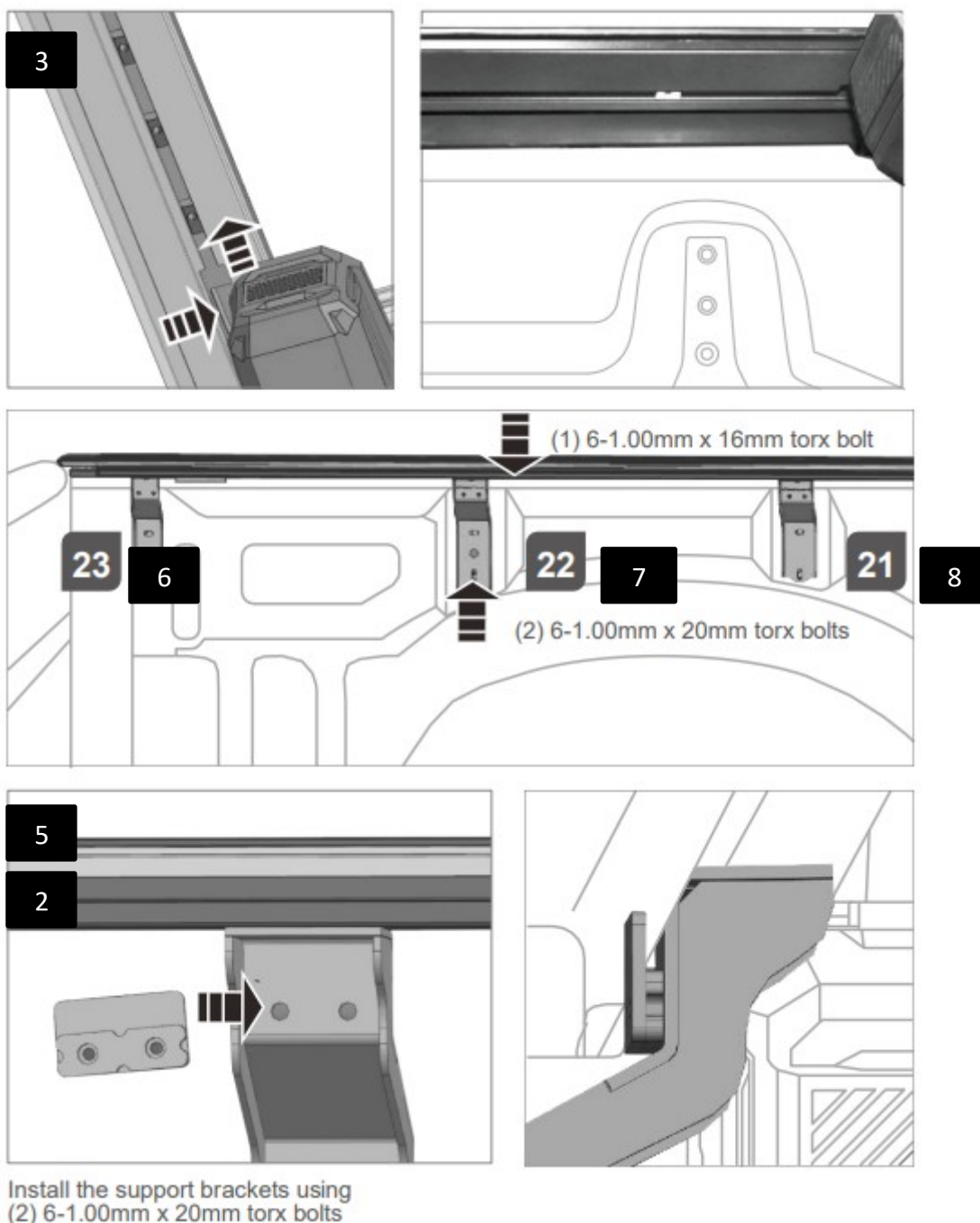
gap between the canister and the front of the bed.



STEP 8 INSTALL MOUNT BRACKETS

Insert three (3) 6mm t-channel blocks into the channel on the bottom of each side rail and position them above the mounting points for the mount brackets. Identify the front, center, and rear mount brackets and install them at the corresponding bed mounting points. Use two (2) 6-1.00mm x 20mm T30 torx bolts to attach the mount bracket to the bed side, and use one (1) 6-1.00mm x 16mm T30 torx bolt to attach the mount bracket to the side rail. Attach the support

brackets to the mount brackets using two (2) 6-1.00mm x 20mm T30 torx bolts. Leave all mount bracket hardware loose at this time. Repeat this process for the other side.

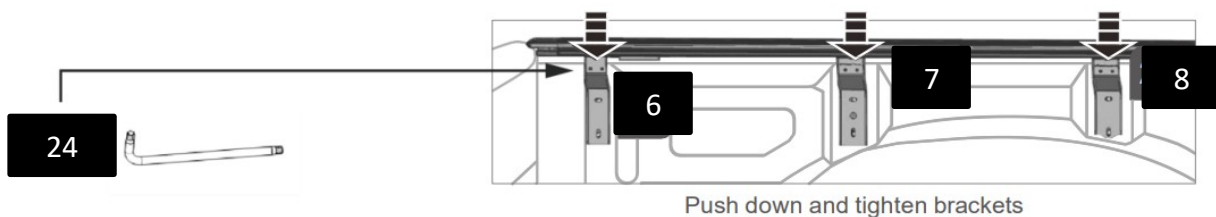
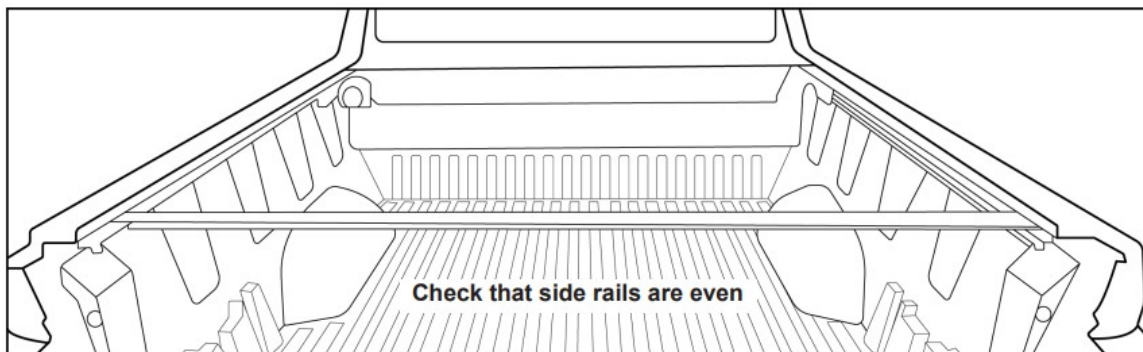


STEP 9

ALIGN THE SIDE RAILS

Insert the included standard bar into the channel on the inner side of both side rails. Slide the standard bar along the channels and check that the distance between the side rails is the same front-to-rear. Shift the ends of the side rails until the optimum position is achieved, then carefully push down on the end of the side rails and tighten the hardware for the rear mount brackets. Use the standard bar to double check the gap between the side rails and measure

the distance between the outside of each side rail and the outer edge of the bed to ensure they are positioned centrally. This process may need to be repeated a few times until all measurements are optimal. After this has been completed, proceed to tighten the hardware for the center and front brackets, carefully pushing down on the side rails above each mount bracket before tightening the hardware. As a final check to make sure the tonneau cover will operate smoothly, it can be manually moved through its full range of motion. Pull the motor clutch lever up to disengage the motor, then carefully pull on the tonneau cover. If it moves easily with no binding/rough spots, proceed with the rest of the installation. If it is difficult to operate or has rough spots, the side rails will need further adjustment until the tonneau cover operates smoothly

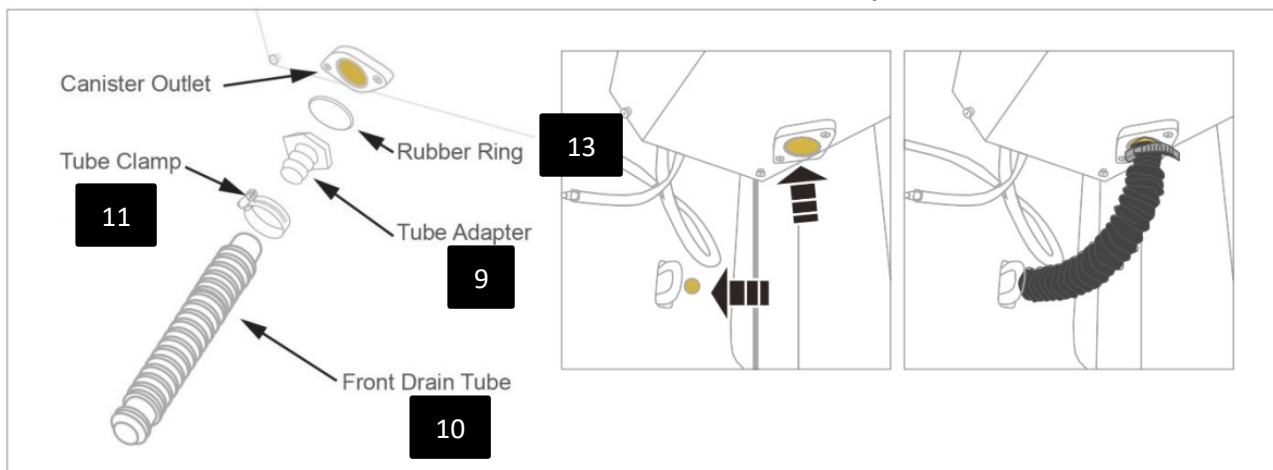


STEP 10

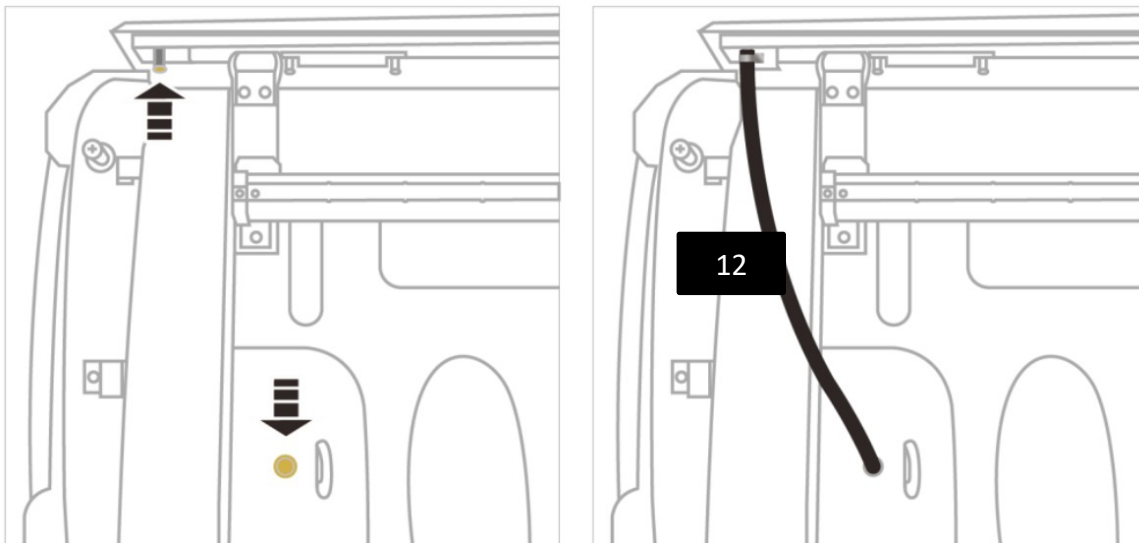
INSTALL DRAIN TUBES

No drilling is required to install the front and rear drain tubes, they will use existing holes in the bed. Install the front drain tube adapters onto the front drain tubes and tighten using the supplied tube clamps. Press the rubber ring into the groove in the canister outlet on the bottom of the canister, then screw the drain tube adapter into the canister outlet. Do not over tighten

as this may damage the plastic fittings. Route the end of the front drain tube through the hole in the side of the bed, located next to the front bed tie down hoop

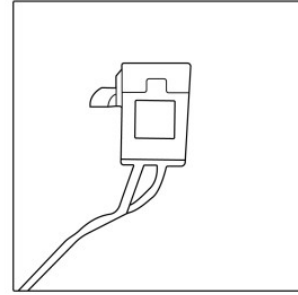
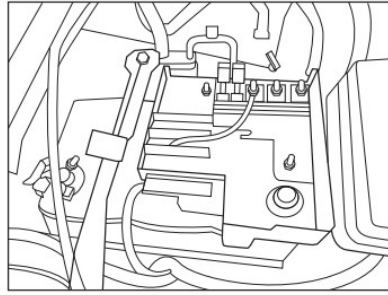
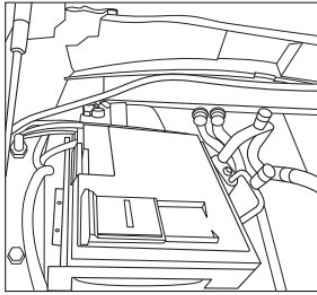


Slip the end of the rear drain tube with the pre-installed tube clamp onto the drain outlet at the end of the side rail (the tube clamp may need to be loosened to fit over the drain outlet). Route the bottom of the rear drain tube through the hole at the base of the bed, next to the rear bed tie down hoop. Tighten the tube clamp until the drain tube is snug on the drain outlet, do not over tighten as this may cause damage to the drain outlet.



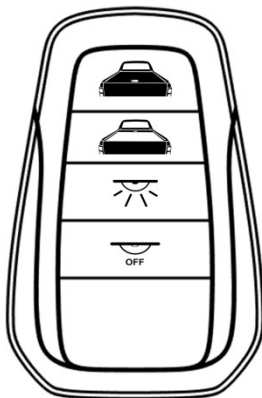
STEP 11

CONNECTING WIRING TO VEHICLE BATTERY



OPERATION OF THE TONNEAU COVER

Side Rail Mounted Buttons

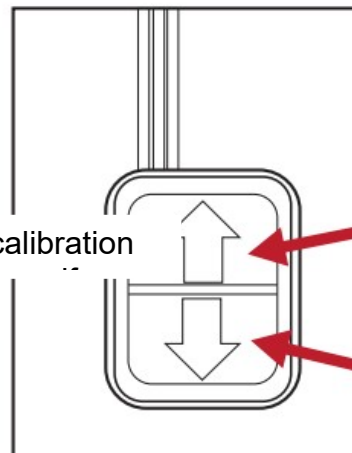


Lock

Unlock

Light on/ self-calibration

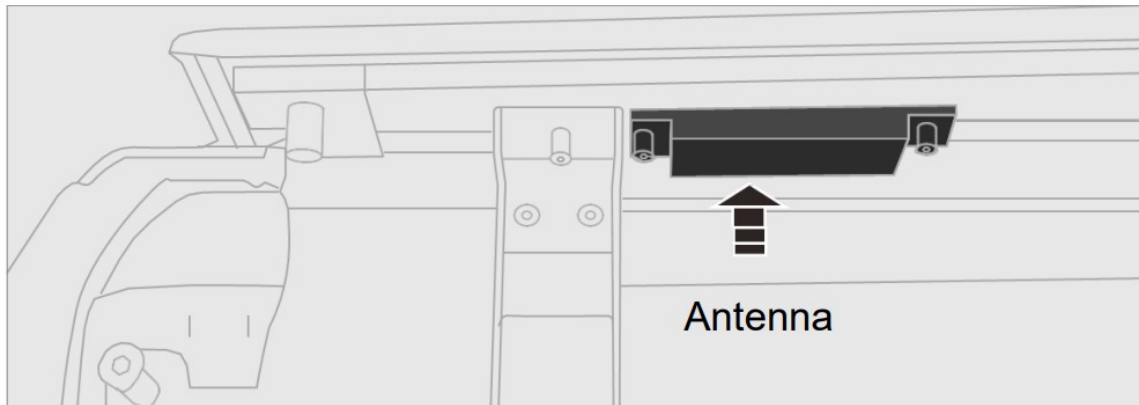
Light off



Push to Open

Push to Close

The operating range of the remote key fob is 4.5ft from the antenna located near the end of the driver side tonneau cover side rail



Antenna

Prior to the first use of the tonneau cover, the self-calibration process must be performed:

- Press and hold the Light On button for 3 seconds to activate the self-calibration function. o When it starts the LED light will flash 5 times to confirm it has entered the self-calibration process. Once the self-calibration has started, do not press any other buttons or interrupt the tonneau cover until the process has completed.

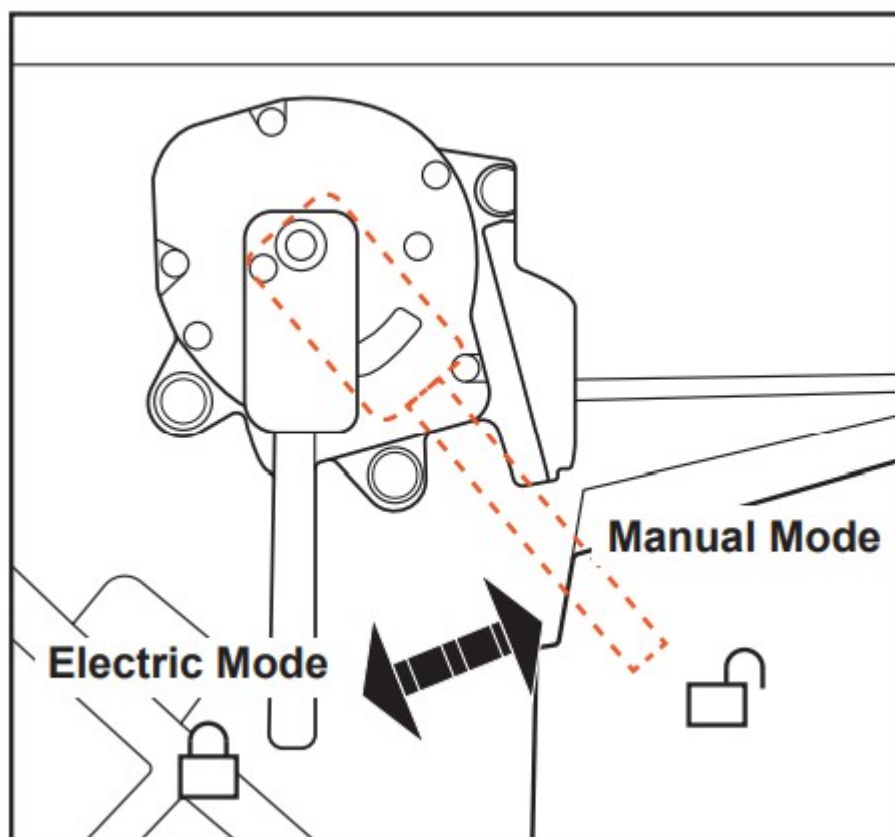
The self-calibration function should be used under the following conditions:

- The first time the tonneau cover is installed and connected to power
- Any time after the tonneau cover has been put into manual operation mode

- Any time it appears the tonneau cover is not fully opening or closing
- To open the tonneau cover- with the key fob in range, either press the open button on the key fob or press the open button on the driver side rail
- To close the tonneau cover- with the key fob in range, either press the close button on the key fob or press the close button on the driver side rail

When switching from manual mode to electric mode, the self-calibration process (described previously) must be performed prior to normal operation of the tonneau cover\ Manual Mode
Electric Mode

- System Status Indication (for repairing and troubleshooting ONLY): This function is used for troubleshooting when there's something wrong with the system and will indicate the status of the system through the flashing of the LED Light. There are two different signals of the LED Light, long flash and short flash, the error can be determined through the coding below:
 - o Self-Calibration: start with long flash 2 times, and short flash 3 times; end with long flash 2 times, and short flash 3 times
 - o Motor Position Sensor Error: long flash 3 times, and short flash 1 time
 - o High Voltage: long flash 4 times, and short flash 2 times
 - o Low Voltage: long flash 4 times, and short flash 3 times



FINAL NOTES

- Open and close the tonneau cover to ensure that it is operating without rubbing or binding
- Open and close the tailgate to check for proper movement

- On some models, a better fit with the tailgate may be obtained if the rear of the side rails are adjusted slightly up or down
- Recheck that all mounting hardware is tight.

MAINTENANCE AND CARE

- Periodically clean the canister of dirt or debris that may have been collected inside
- Periodically check front and rear drain tubes and clean as needed
- A non-graphite dry lubricant may be sprayed onto the circular track inside the canister to maintain smooth operation of the tonneau cover
- Remove any snow or large debris from on top of the tonneau cover before opening
- Clean with mild soap and water only, do not use strong chemicals or cleaners. Do not wax the tonneau cover
- Periodically check that the tonneau cover is securely attached to the truck bed and that the mount brackets have not come loose. Frequent usage of the tonneau cover or vibrations from driving on rough road may cause the tonneau cover to require adjustment