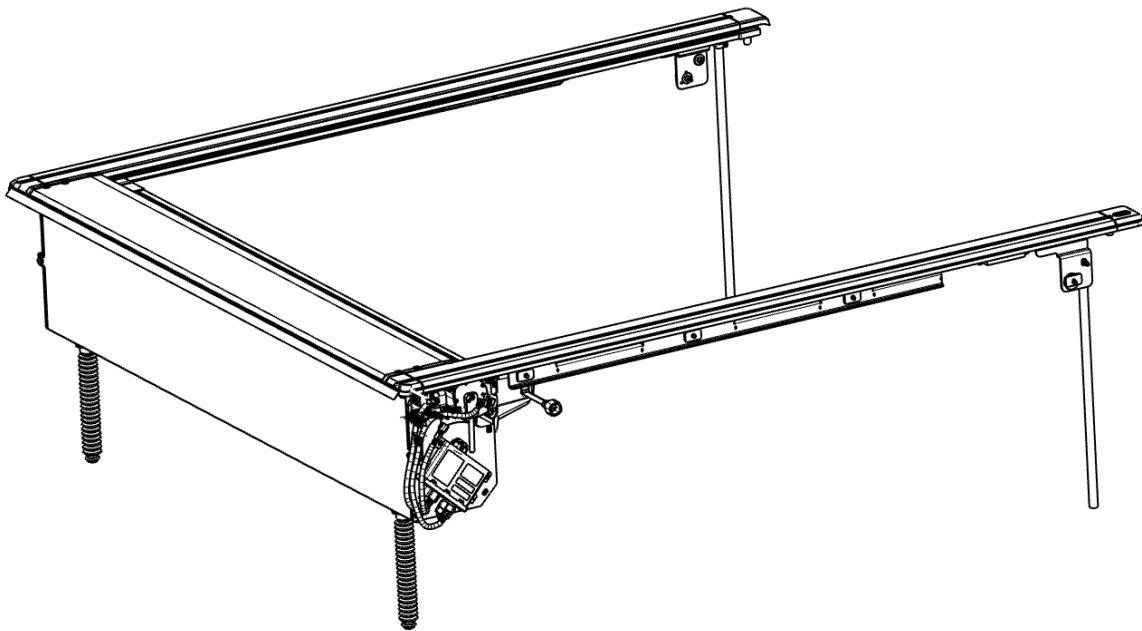


# Installation Instruction for Electric Roller Shutter

**Chevy Silverado 5.8FT**



**Estimated install time: 100 minutes**

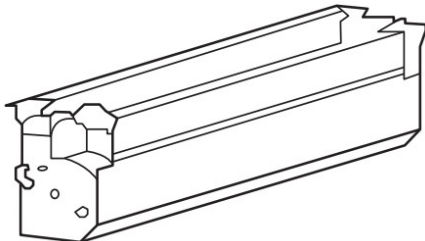
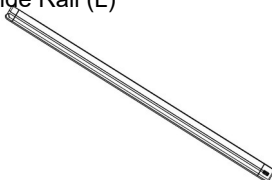
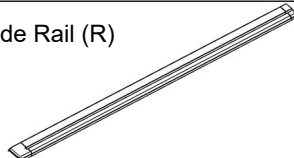
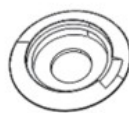
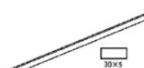
## Before Installation

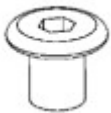
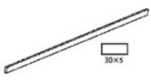
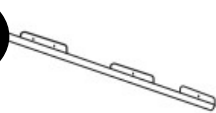
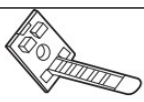
Please read the instruction completely for easy installation, which will also help you to avoid scratches or other potential damages to your appealing car.

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.

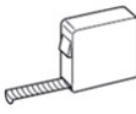
## PART LIST

|                                                                                                                                                           |                                                                                                                                                       |                                                                                                                                                            |                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>A</div> <div></div> <div>Canister Assembly</div>                    | <div>B</div> <div></div> <div>Side Rail (L)</div>                   |                                                                                                                                                            |                                                                                                                                                                                                                                                                 |
|                                                                                                                                                           | <div>C</div> <div></div> <div>Side Rail (R)</div>                  |                                                                                                                                                            |                                                                                                                                                                                                                                                                 |
| <div>D</div> <div></div> <div>Canister cover plate</div>               | <div>E</div> <div></div> <div>Standard bar</div>                    | <div>1</div> <div></div> <div>6-1.00mm x 16mm<br/>Torx Bolt x 12</div> | <div>2</div> <div></div> <div>6-1.00mm x 20mm<br/>Torx Bolt x 6</div>                                                                                                       |
| <div>3</div> <div></div> <div>6mm T-channel Nut<br/>Block x 12</div>   | <div>4</div> <div></div> <div>8mm Threaded Nut<br/>Plate x 8</div> | <div>5</div> <div></div> <div>8mm Flange Nut x 2</div>                 | <div>6</div> <div></div> <div>8mm Spring Washer<br/>x 10</div>                                                                                                             |
| <div>7</div> <div></div> <div>8-1.25mm x 25mm<br/>Torx Bolt x 10</div> | <div>8</div> <div></div> <div><div>12</div>Ring x 2</div>          | <div>9</div> <div></div> <div>Front Drain Tube<br/>Adapter x 2</div>   | <div>10</div> <div></div> <div>Front Drain Tube x 2</div>                                                                                                                  |
| <div>11</div> <div></div> <div>Tube Clamp x 2</div>                    | <div>12</div> <div></div> <div>Rear Drain Tube x 2</div>           |                                                                                                                                                            | <div>13</div> <div></div> <div>Adhesion<br/>Promoter x 1</div>                                                                                                              |
| <div>15</div>                                                                                                                                             | <div></div>                                                        | <div></div>                                                            | <div><div>14</div><div></div><div>Motor Clutch<br/>Handle x 1</div></div> <div></div> |

|                                                                                                                                      |                                                                                                                                   |                                                                                                                                        |                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <br>5mm x 8mm Flat Head<br>Screw x 4                |                                                                                                                                   | Plastic Ring x 4                                                                                                                       |                                                                                                                                    |
| <br>19<br>Bed Front Gap Foam<br>Spacer x 1          | <br>20<br>Driver/Left Front Mount<br>Bracket x 1 | <br>21<br>Passenger/Right Front<br>Mount Bracket x 1 | <br>22<br>Driver/Left Rear<br>Mount Bracket x 1 |
| <br>23<br>Passenger/Right Rear<br>Mount Bracket x 1 | <br>24<br>Nylon Ties x 10                        | <br>25<br>Fastening Buckle x 8                       | <br>26<br>S3 Allen Wrench x 1                   |
| <br>27<br>T40 Torx Wrench x 1                     | <br>28<br>T30 Torx Wrench x 1                  | <br>29<br>Power Cable x 1                           | <br>30<br>PKE Key Fob<br>Remote x 2            |
| <br>31<br>ECU wiring ( A+B ) x1                   |                                                                                                                                   |                                                                                                                                        |                                                                                                                                    |



### Tools and materials needed

|                                                                                                     |                                                                                                             |                                                                                              |                                                                                                                            |                                                                                                           |                                                                                                       |
|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <br>Tape measure | <br>Hole Saw (Ø19mm) x 1 | <br>Drill | <br>Drill Bit 10mm (3/8")<br>6mm (1/4") | <br>Vise Grip Pliers | <br>Caulking Gun |
|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|

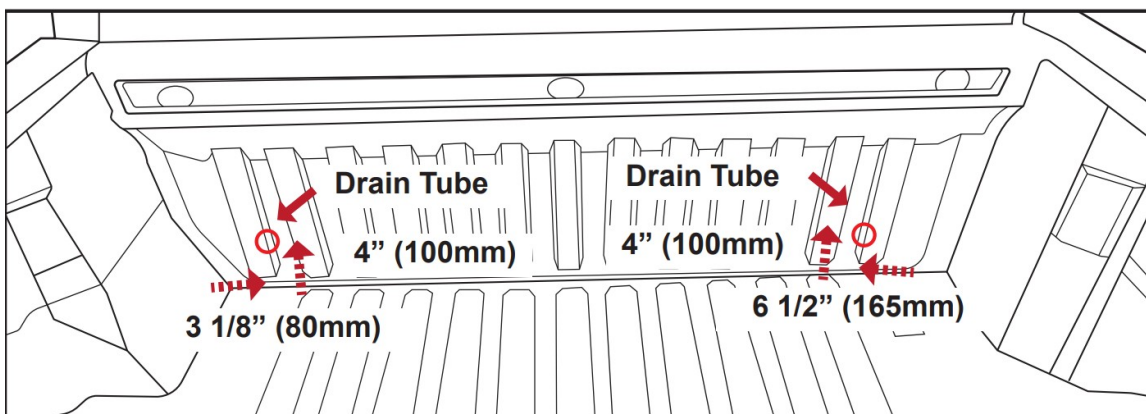
## STEP 1

**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

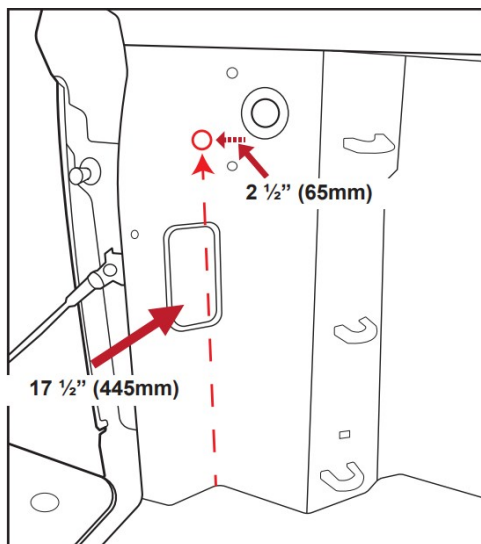
## STEP 2

**PREP TRUCK BED FOR INSTALLATION** Drilling is required to install the front and rear drain tubes. **INSTALLATION INSTRUCTIONS** Caulking Gun Use caution when drilling through the front of the bed to not hit the cab, a drill stop may be used to help prevent this

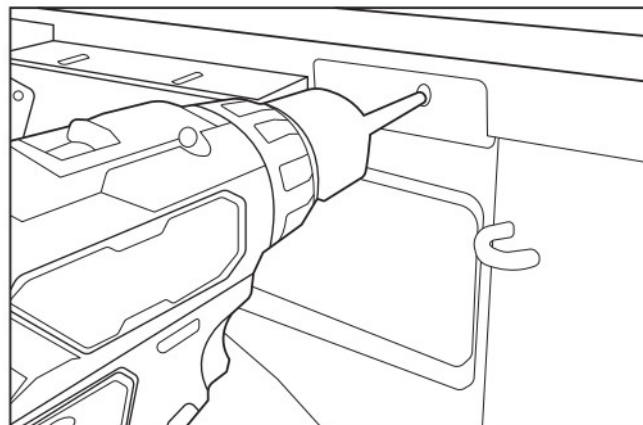
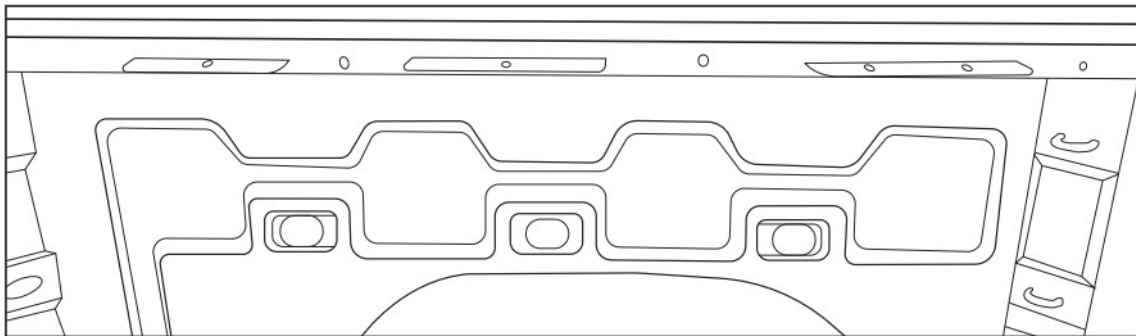
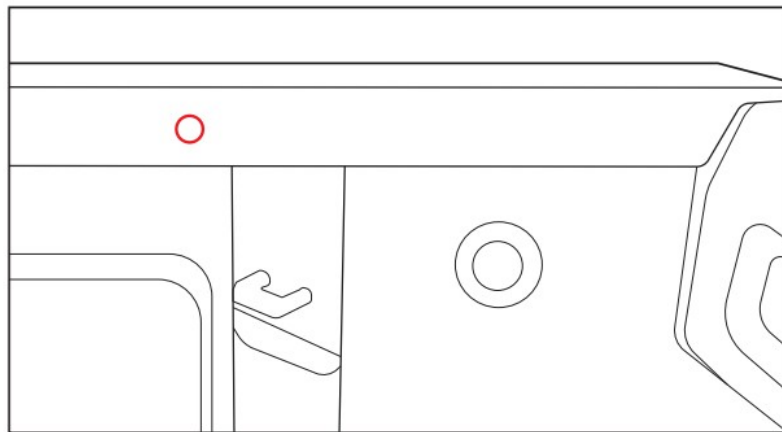
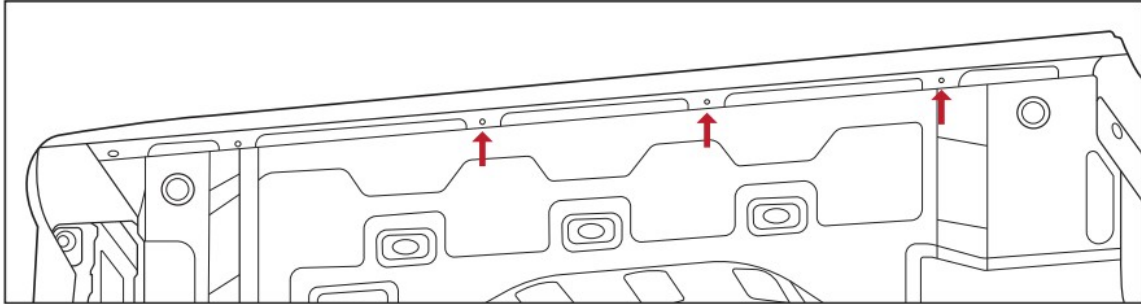
**Front Drain Tubes:** On the driver side, measure approximately 3 1/8" (80mm) from the side of the bed, and 4" (100mm) up from the base of the bed. On the passenger side, measure approximately 6 1/2" (165mm) from the side of the bed, and 4" (100mm) up from the base of the bed. Use a 19mm hole saw to cut the drain tube holes. The holes will be drilled into the raised vertical ribs at the front of the bed



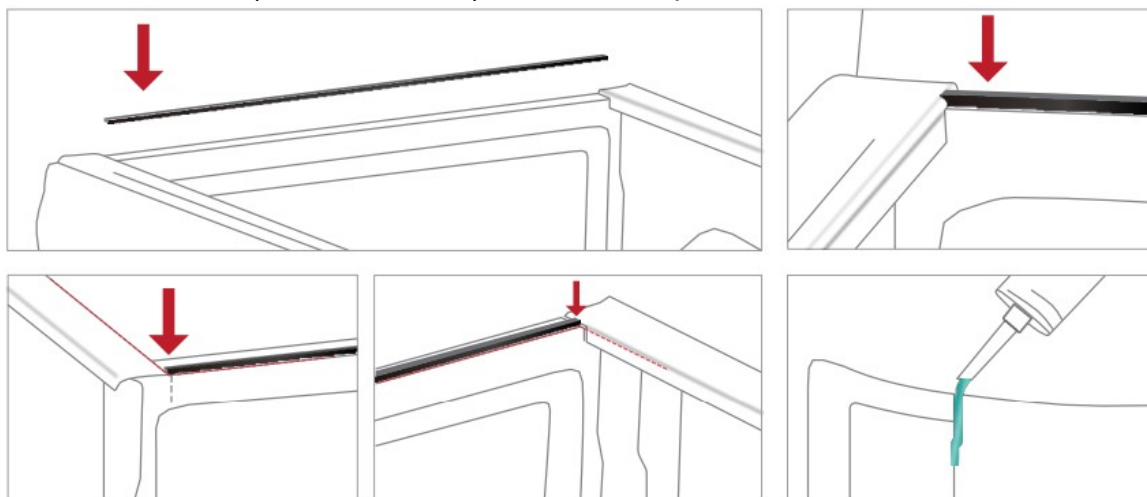
**Rear Drain Tubes:** Measure approximately 2 1/2" (65mm) rearward from the large stake pocket hole on the side of the bed. Measure approximately 17 1/2" (445mm) from the base of the bed. Use a 19mm hole saw to drill one hole on each side of the bed.



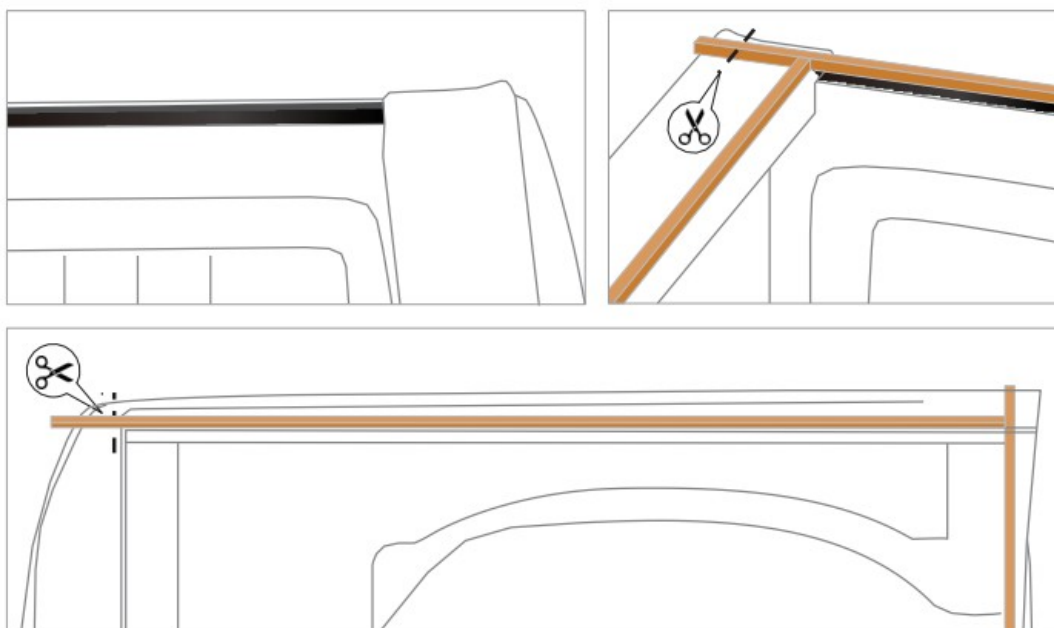
**Front Mount Brackets:** The front mount brackets will use holes in the metal bed rails behind the plastic bed caps. The first hole is 10.5in (167mm) from the front of the bed. Mark the hole on the plastic bed cap and use a 1/4" (6mm) drill bit to carefully drill through the plastic, making sure to not make contact with the metal behind. The front mount bracket can be temporarily clamped to the bed side to help locate the mounting holes, remove the mount bracket after all the holes have been drilled. Repeat this process for the other side



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.

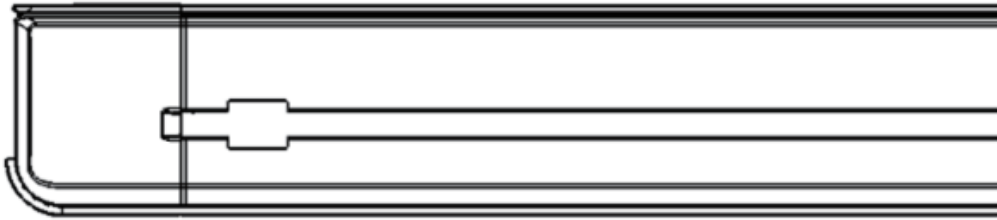
## Left Rail



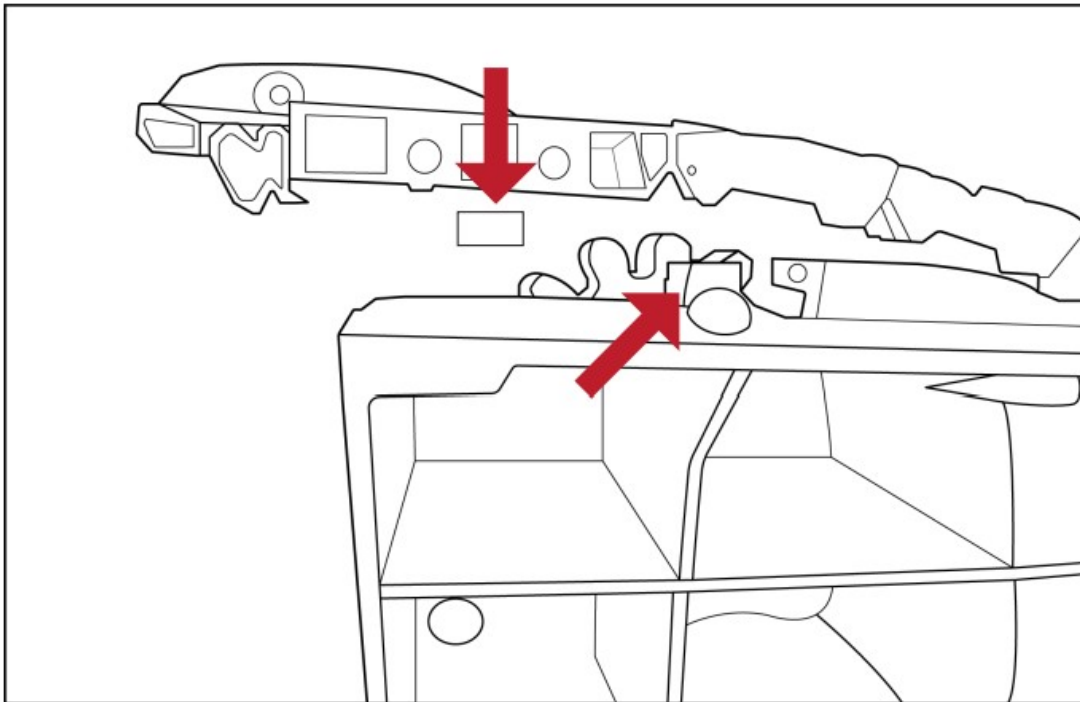
**Tailgate End**

**Right Rail**

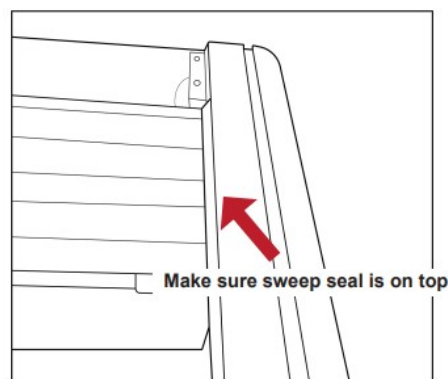
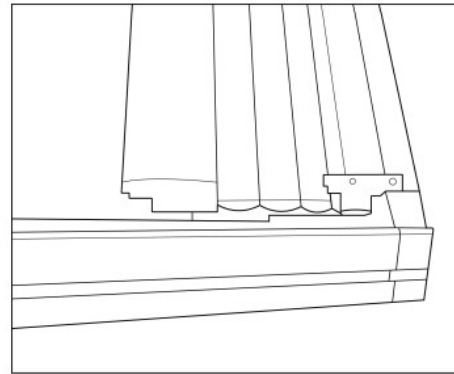
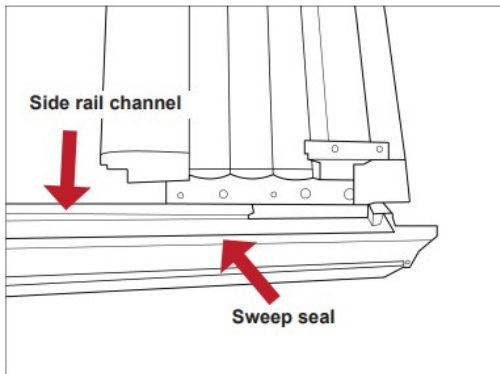
**Cab End**



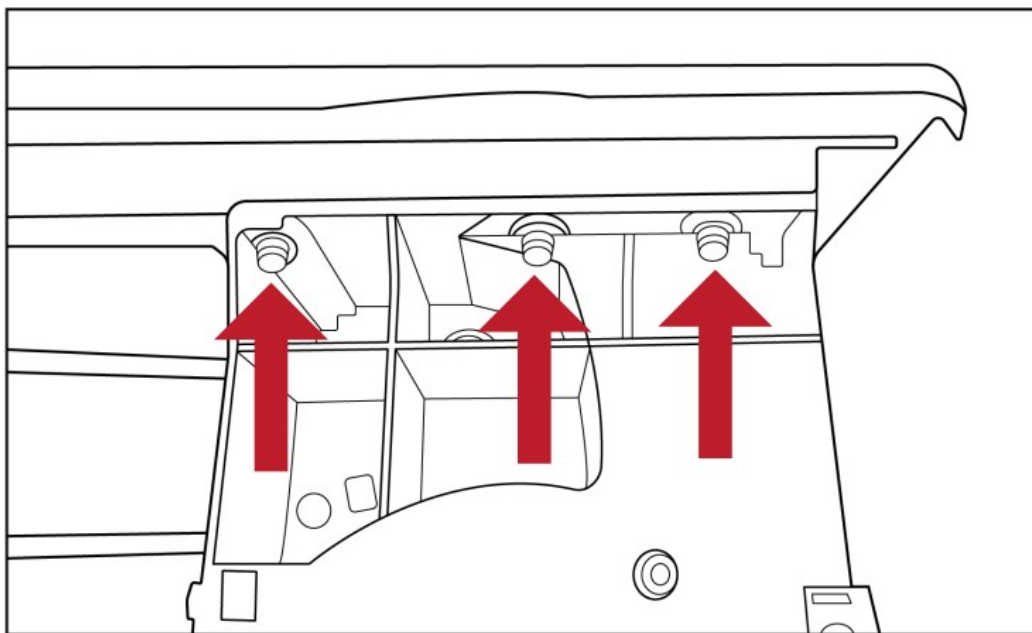
Lift the motor clutch handle to disengage the motor, and carefully pull the tonneau cover out from the canister and ensure that the stopper on the tonneau cover is in front of the limit block on the canister



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.



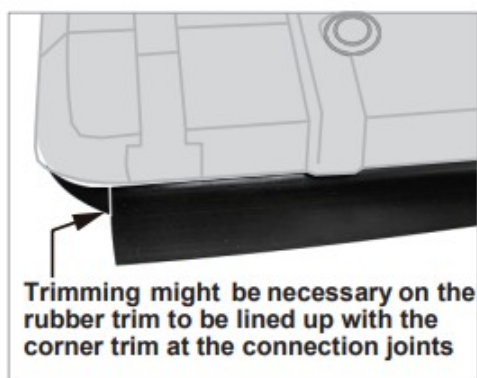
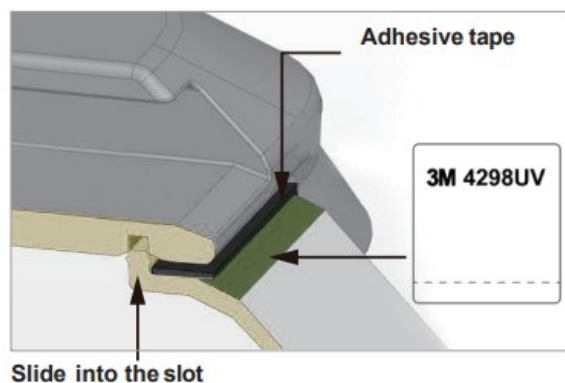
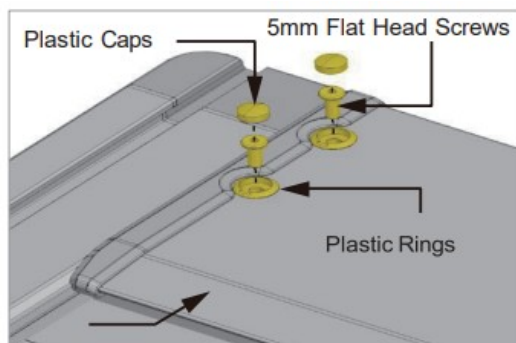
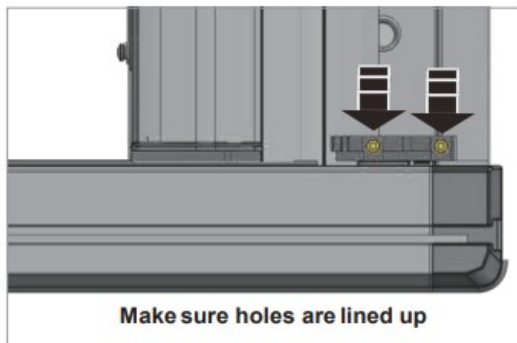
Repeat this process to install the other side rail Note: The top of the original shipping package may be used to hold up the ends of the side rails to help make this part of the installation easier



## STEP 4

### INSTALL CANISTER COVER PLATE

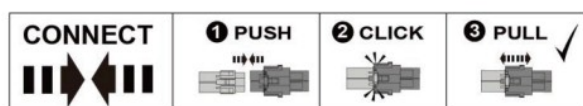
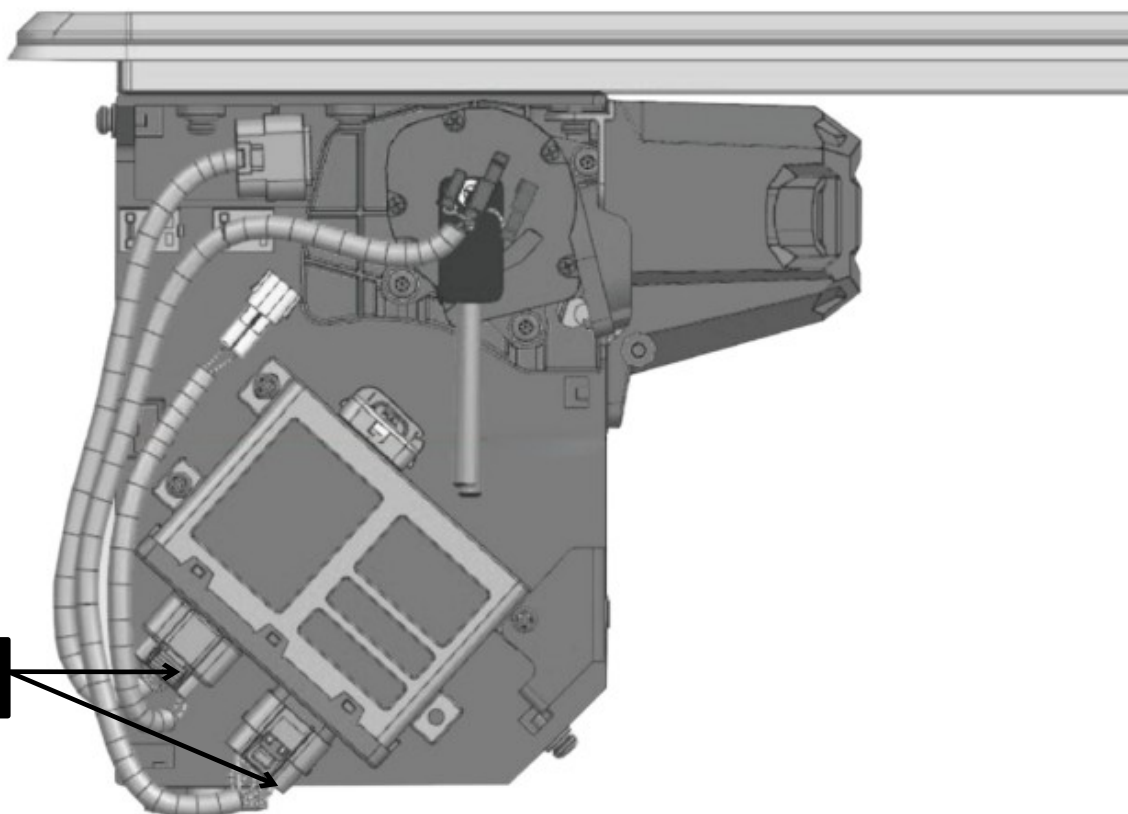
Place the canister cover plate on top of the canister and make sure the mount holes line up with the mount points on the canister. Place one (1) plastic ring into each hole on the canister cover plate, then use four (4) 5mm x 8mm flat head screws to attach the canister cover plate to the canister. Remove 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



## 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

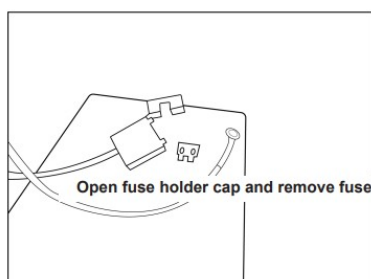
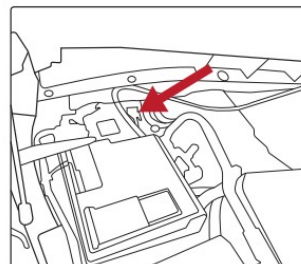
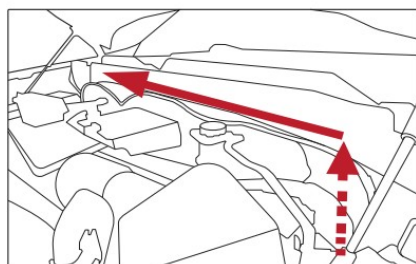
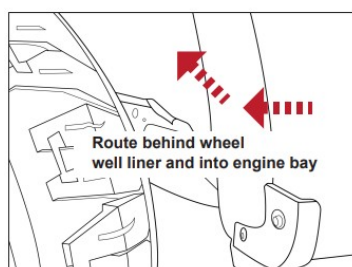
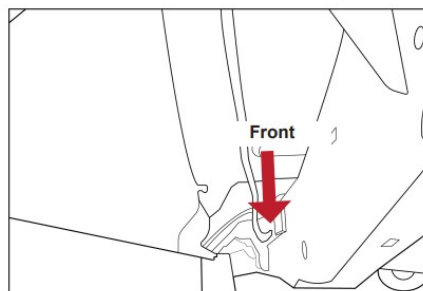
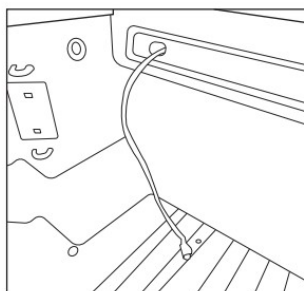
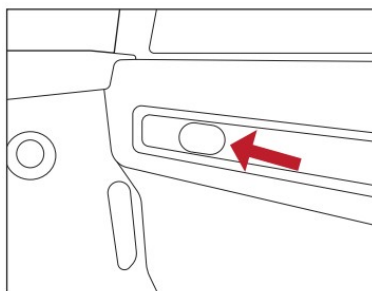


PULL THE CONNECTORS  
NOT THE CABLE

## STEP 6

### ROUTE THE POWER HARNESS

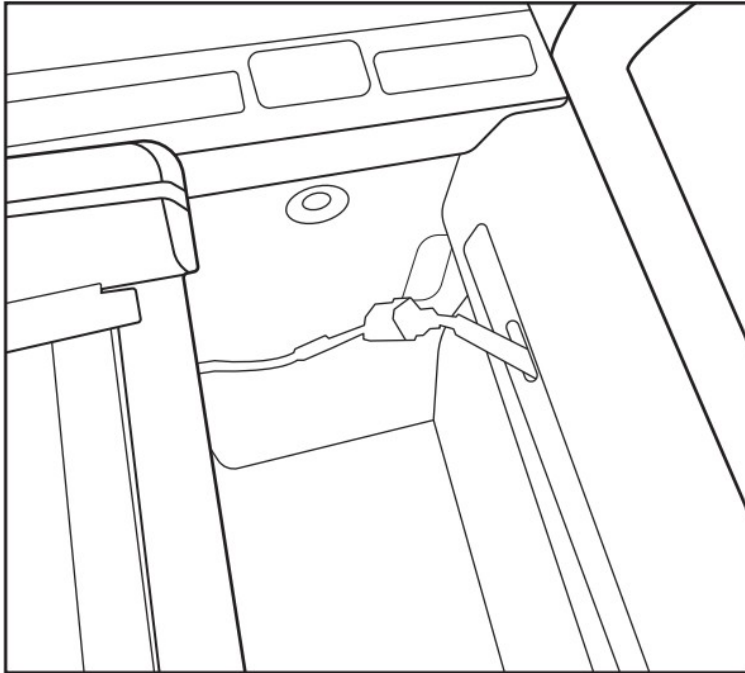
Remove the plastic plug from the top driver side of the bed. Route the power harness out of the bed through this hole, down the length of the vehicle frame, up into the engine bay, and to the vehicle battery on the passenger side. Using wire ties, secure the wire harness so it does not come into contact 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.



## **STEP 7**

### **INSTALL TONNEAU COVER ON TRUCK BED**

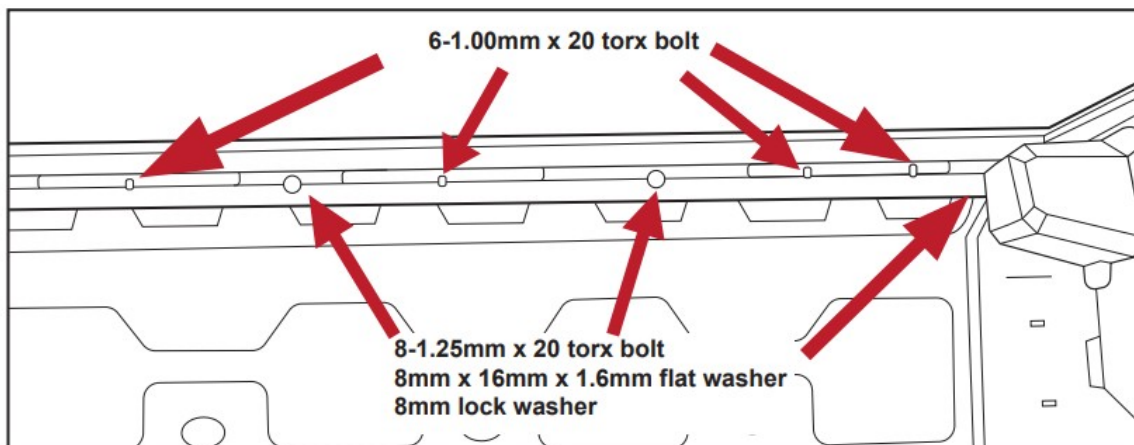
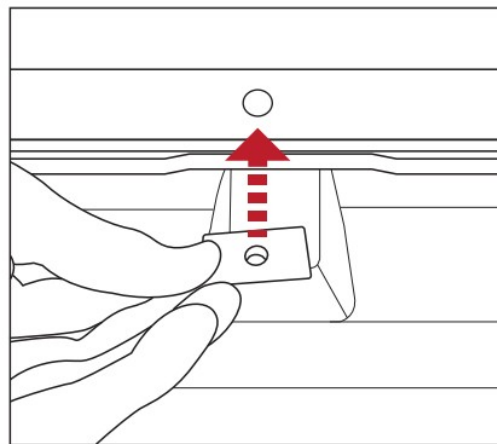
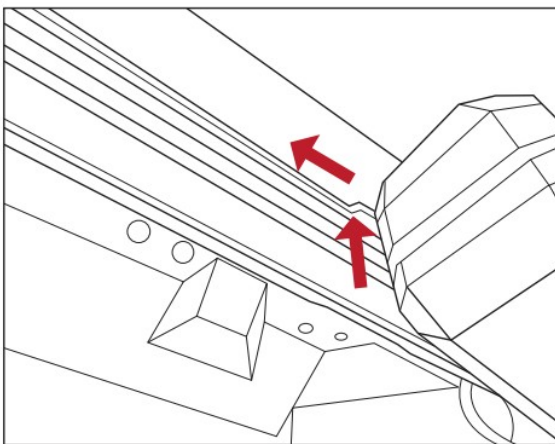
With assistance, carefully lift the tonneau cover assembly and place it on top of the truck bed. Do not slide the tonneau cover along the bed as this will damage the foam seals. Leave the front of the tonneau cover about 1ft from the front of the bed and connect the power harness to the connector on the ECU main harness. Carefully lift the tonneau cover and position it as far forward as possible without touching the bed, leave a small gap between the tonneau cover canister and the front of the bed. Be careful not to pinch the wire harness between the tonneau cover and the bed as it may get damaged.



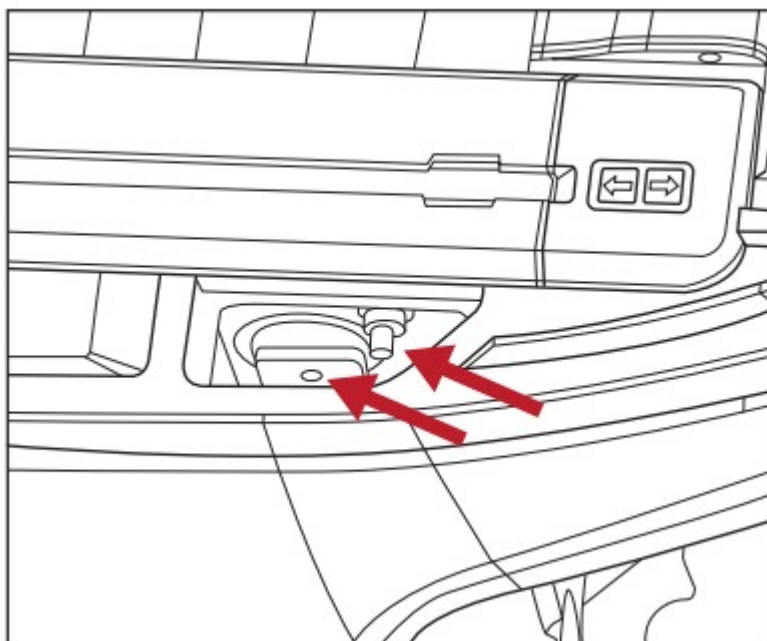
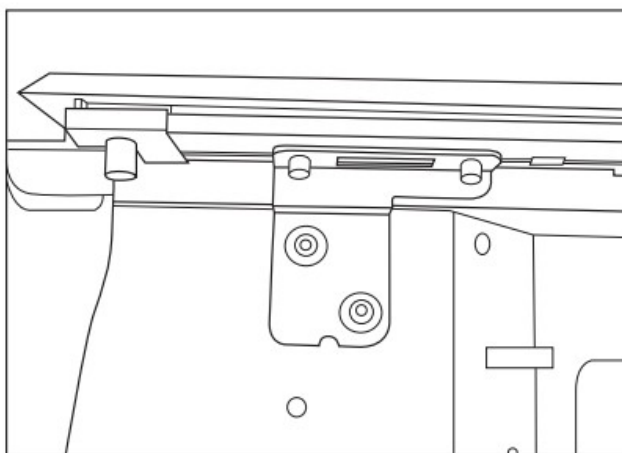
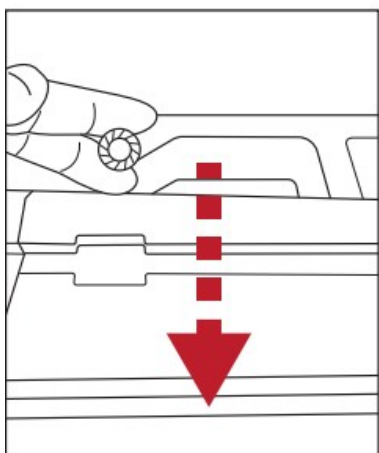
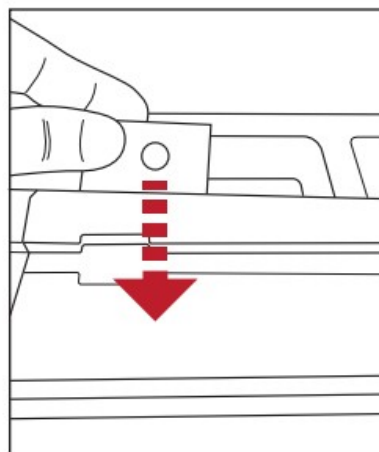
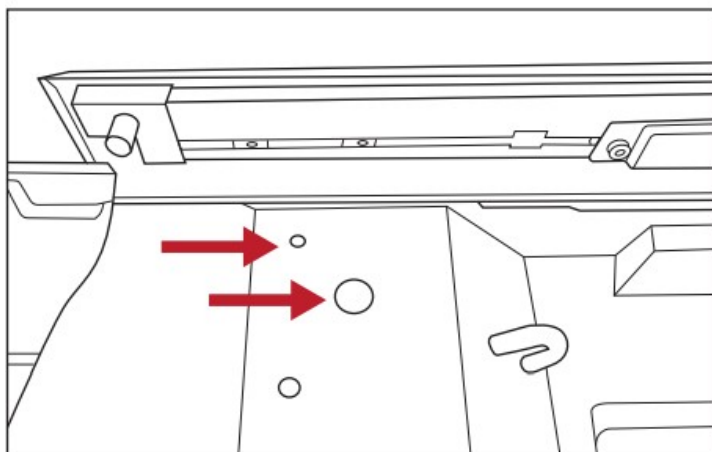
## STEP 8

### INSTALL MOUNT BRACKETS

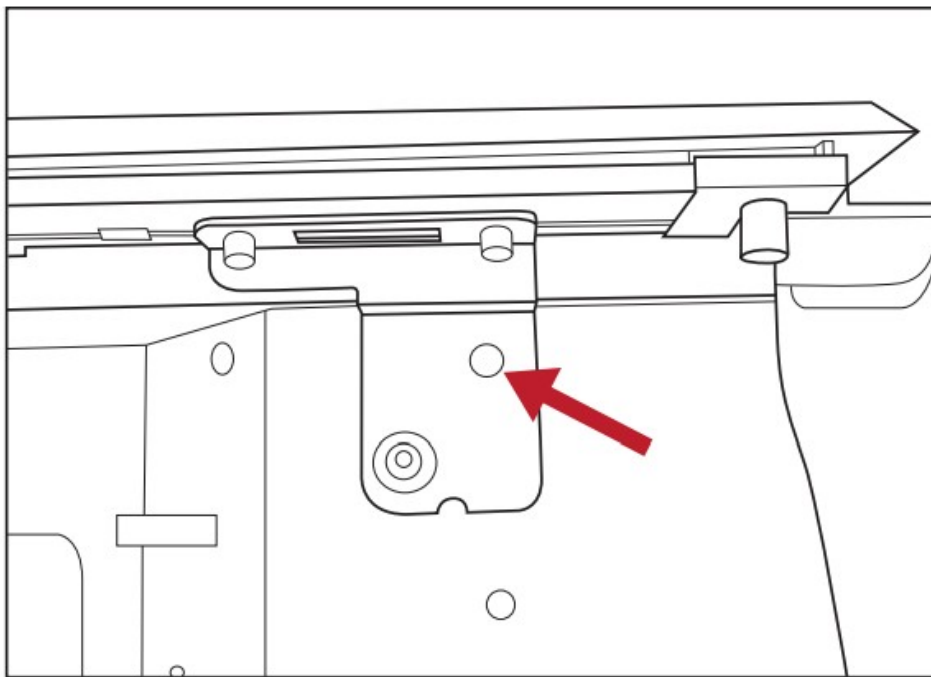
**Front Bracket:** Start on the driver side. Insert four (4) 6mm t-channel blocks into the channel on the bottom of the driver side rail. Use the driver side front mount bracket and line it up with the holes on the truck bed side, it may be helpful to temporarily clamp the bracket to the bed side to hold it in place while installing the mount hardware. Use four (4) 6-1.00mm x 20mm T30 torx bolts to attach the mount bracket to the side rail and use three (3) 8-1.25mm x 25mm T40 torx bolts, three (3) 8mm x 16mm x 1.6mm flat washers, three (3) 8mm spring washers, and three (3) 8mm threaded nut plates to attach the mount bracket to the bed side. Leave all mount bracket hardware loose at this time. Repeat this process for the passenger side.



**Rear Bracket:** Start on the driver side. Insert two (2) 6mm t-channel blocks into the channel on the bottom of the side rail, behind the antenna. Use two (2) 6-1.00mm x 20mm T30 torx bolts to attach the mount bracket to the side rail. Use one (1) 8-1.25mm x 25 T40 torx bolt, one (1) 8mm x 16mm x 1.6mm flat washer, one (1) 8mm spring washer, and one (1) 8mm threaded nut plate for the lower bracket mount point. Use one (1) 8-1.25mm x 25 T40 torx bolt, one (1) 8mm x 16mm x 1.6mm flat washer, one (1) 8mm spring washer, and one (1) 8mm serrated flange nut for the upper mount point. Leave all mount bracket hardware loose at this time. Repeat this process for the passenger side.



Special note for the passenger side rear bracket: A hole will need to be drilled for the upper mount point. Once the hardware for the other mount points are installed the bracket is securely in place, use the hole in the bracket to mark the location to drill. Remove the mount bracket and use a 10mm (3/8") drill bit to drill a hole in the side of the bed. Clean the edges of the hole, treat any exposed metal to prevent rust, and reinstall the mount bracket. Leave the hardware loose at this time

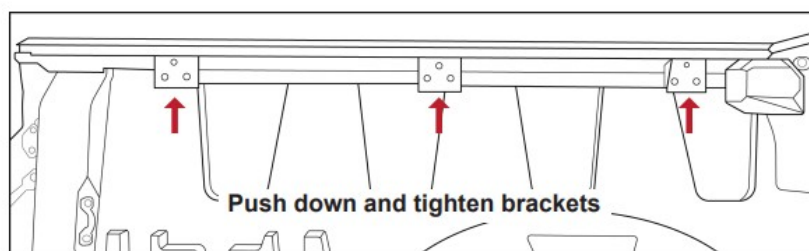
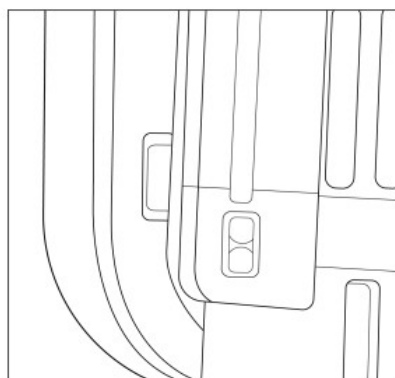
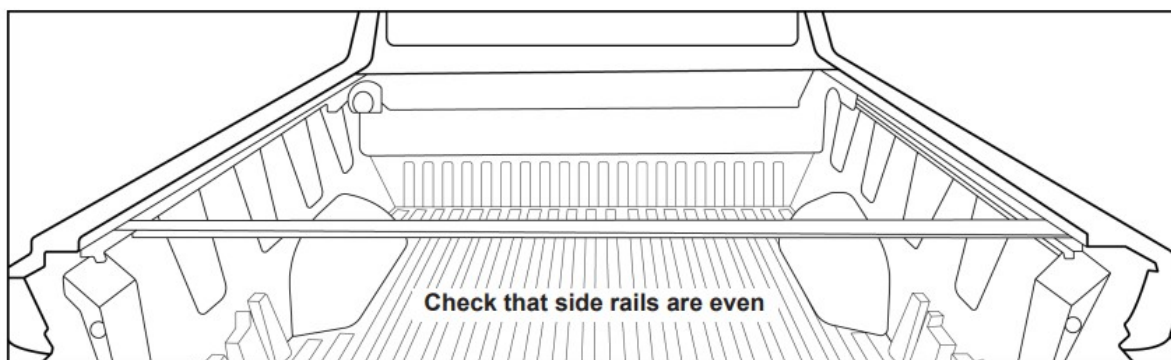




## STEP 9

### 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

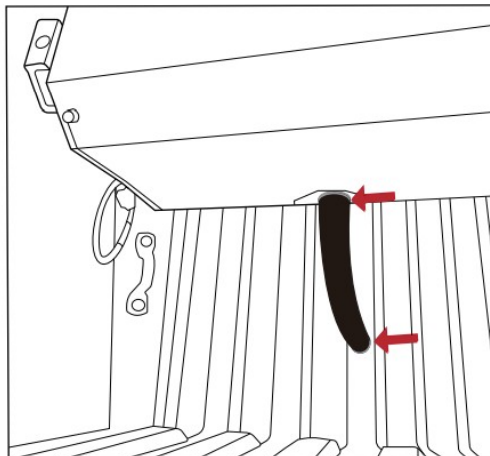
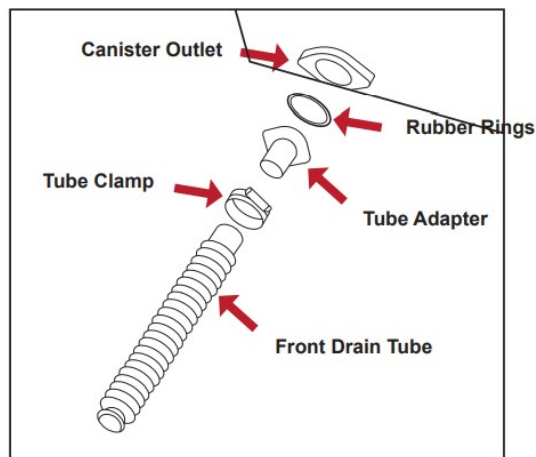




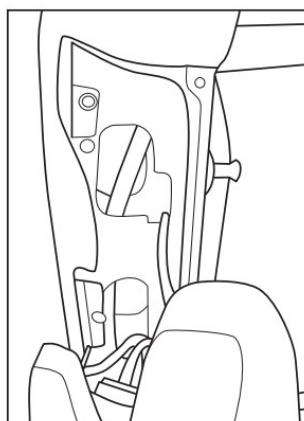
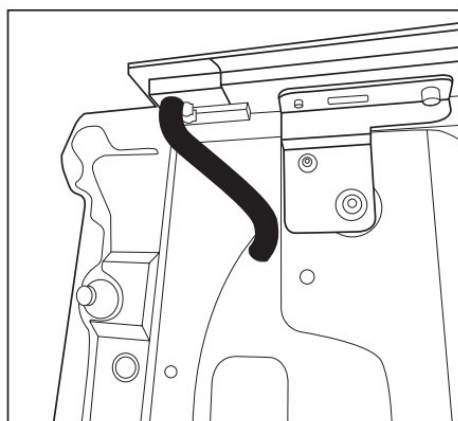
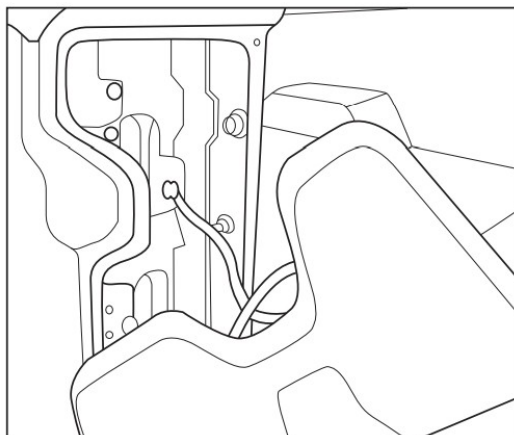
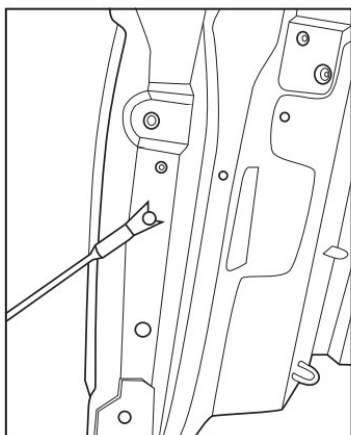
## STEP 10

### INSTALL DRAIN TUBES

Install the front drain tube adapters onto the front drain tubes and tighten using the supplied tube clamps. Screw the drain tube adapter into the threaded mount hole on the bottom of the canister. Do not over tighten as this may damage the plastic fittings. Route the end of the front drain tube through the hole that was cut into the base of the bed from Step 2.

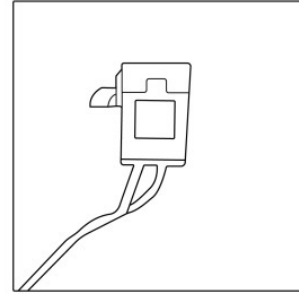
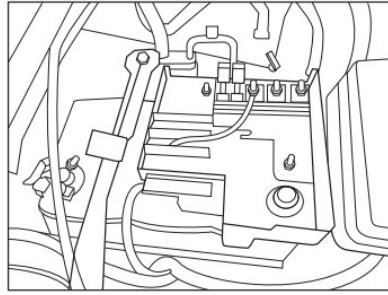
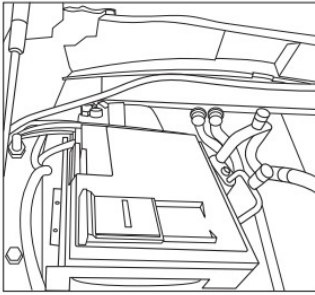


Rear: Temporarily remove the taillight housing by removing two screws on the inside and pulling firmly back to release the two tabs on the outside. Slip the end of the rear drain tube with the pre-installed tube clamp onto the drain outlet at the end of the side rail (the tube clamp may need to be loosened to fit over the drain outlet). Route the bottom of the rear drain tube through the hole near the top of the bed that was drilled in Step 2. Reach in the cavity behind the taillight housing and guide the drain tube down and around any obstructions. 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. Reinstall taillight housing.



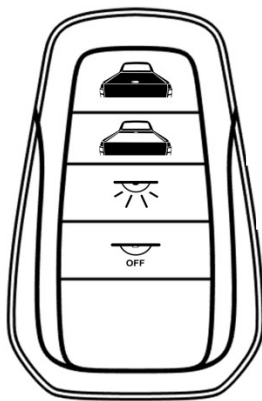
## STEP 11

### CONNECTING WIRING TO VEHICLE BATTERY



### OPERATION OF THE TONNEAU COVER

#### Side Rail Mounted Buttons

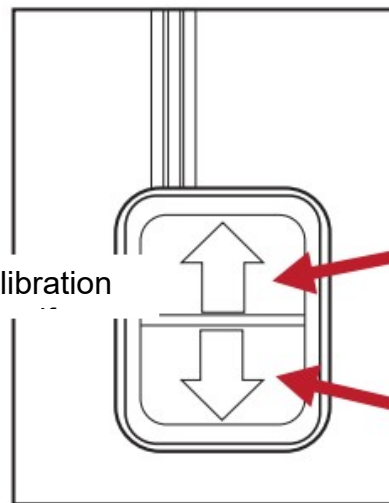


Lock

Unlock

Light on/ self-calibration

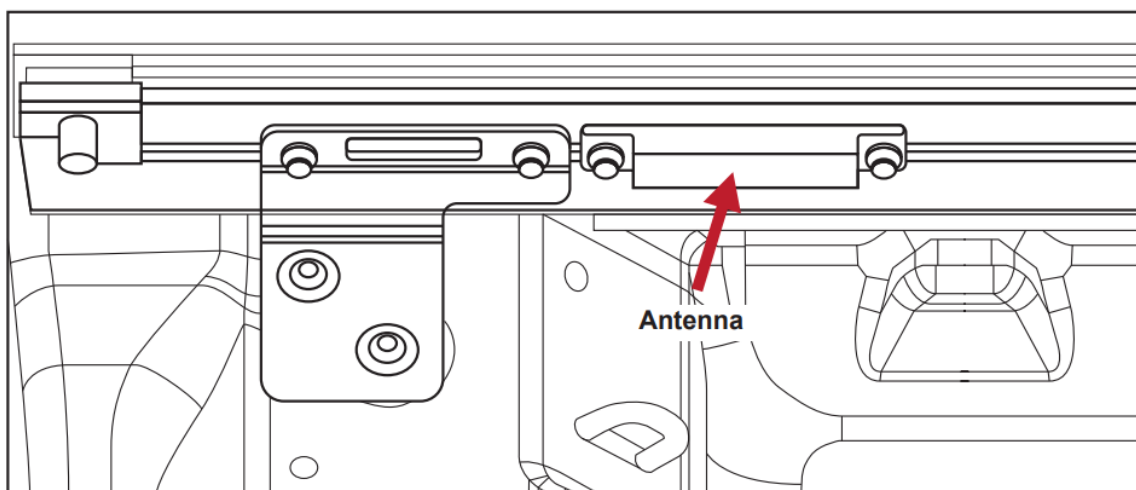
Light off



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.

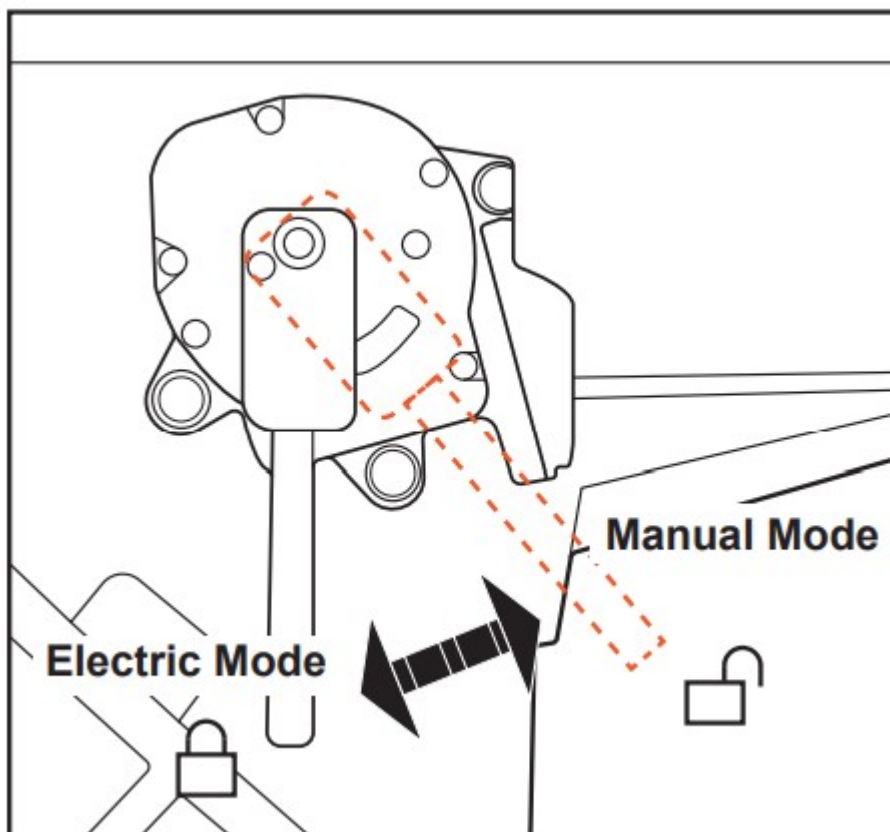
## The self-calibration function should be used under the following conditions:

- 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