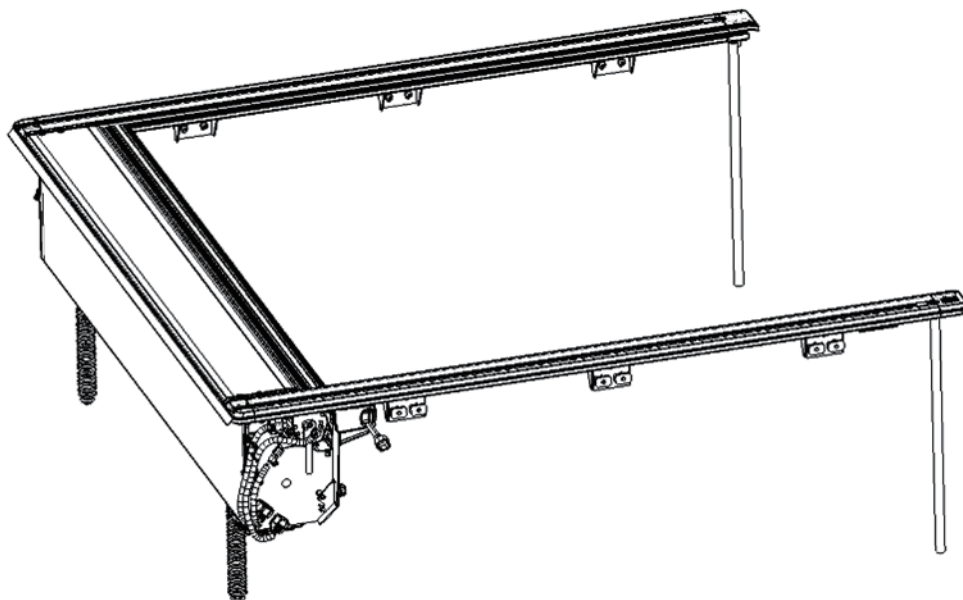


# ROUGH COUNTRY

## Chevy/GMC 1500 (19-25) | 5'7" Bed | Powered Retractable Bed Cover



Estimated Install time: 120 minutes

### Before you start:

- Read instructions carefully before beginning installation.
- Check that all parts/hardware are present and correct as depicted below.

### General Notes:

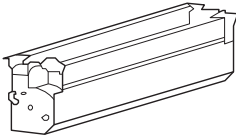
- Keep all boxes and packaging until the installation is complete.
- Unpack all components carefully to prevent damage.
- Ensure any bare metal surfaces are protected by automotive primer and touch up paint. Remove any dust/debris from vehicle mounting surfaces prior to installation.
- This tonneau cover is compatible with spray-on bed liners, **however any composite drop-in bed liners must be removed prior to tonneau cover installation**
- This product must be installed as outlined in these instructions. Failure to do so may result in damage to the vehicle or the product.
- Do not modify the structure of the Bed Cover in any way
- **Always wear eye protection when operating power tools**



# INSTALLATION INSTRUCTIONS

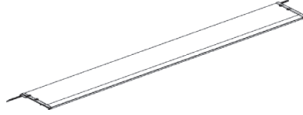
## PARTS LIST:

1



Tonneau Cover Canister Assembly x 1

2



Canister Cover Plate x 1

3



DS Side Rail x 1

4



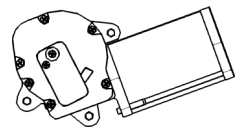
PS Side Rail x 1

5



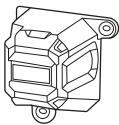
Calibration Crossbar x 1

6



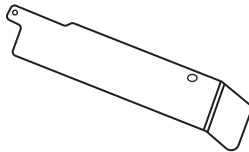
Motor x 1

7



Motor Housing x 1

8

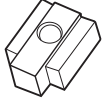


Block Off Panel x 1

# INSTALLATION INSTRUCTIONS

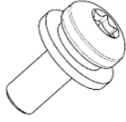
## HARDWARE LIST:

9



6mm T-channel Nut  
Block x 12

10



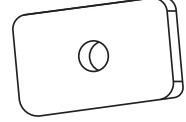
6-1.00mm x 16mm  
Torx Bolt x 12

11



6-1.00mm x 20mm  
Torx Bolt x 9

12



8mm Threaded  
Nut Plate x 8

13



8mm Serrated  
Flange Nut x 2

14



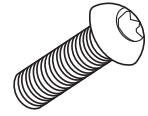
8mm Lock Washer  
x 10

15



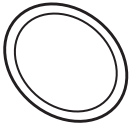
8mm x 16mm x 1.6mm  
Flat Washer x 10

16



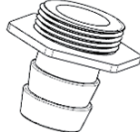
8-1.25mm x 25mm  
Torx Bolt x 10

17



Rubber O-Ring x 2

18



Front Drain  
Tube Adapter x 2

19



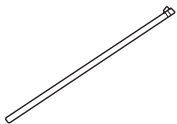
Front Drain Tube x 2

20



Tube Clamp x 2

21



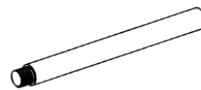
Rear Drain Tube x 2

22



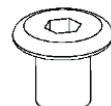
Adhesion Promoter x 1

23



Motor Clutch Handle x 1

24



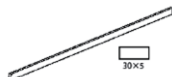
5mm x 8mm  
Flat Head Screw x 4

25



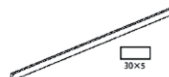
Plastic Cap x 4

26



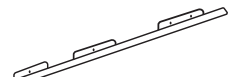
Bed Rail Top  
Foam Spacer x 3

27



Bed Front Gap  
Foam Spacer x 1

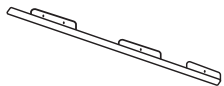
28



Driver/Left Front  
Mount Bracket x 1

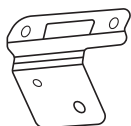
# INSTALLATION INSTRUCTIONS

29



Passenger/Right Front Mount Bracket x 1

30



Driver/Left Rear Mount Bracket x 1

31



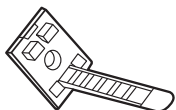
Passenger/Right Rear Mount Bracket x 1

32



Nylon Ties x 10

33



Fastening Buckle x 8

34



S3 Allen Wrench x 1

35



T40 Torx Wrench x 1

36



T30 Torx Wrench x 1

37



Power Cable x 1

38



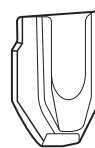
ECU Main Harness Set x 1

39



PKE Key Fob Remote x 2

40



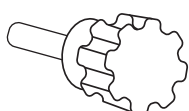
Key Fob Holder x 1

41



Plastic Ring x 4

42



Threaded Knob x 1

43



Hole Saw (Ø19mm) x 1

# INSTALLATION INSTRUCTIONS

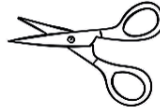
## TOOLS REQUIRED



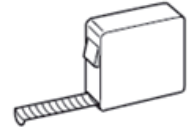
Phillips Screwdriver



Flat Screwdriver



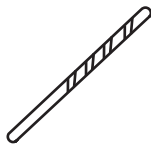
Scissors



Tape measure



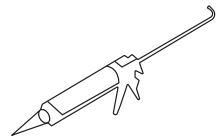
Drill



Drill Bit 10mm (3/8")  
6mm (1/4")



Vise Grip Pliers



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

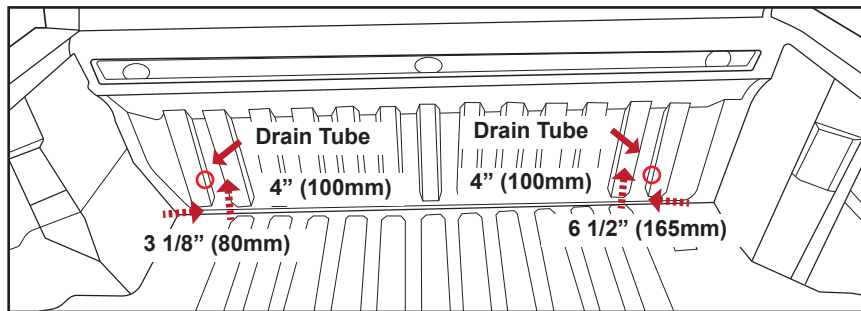
### PREP TRUCK BED FOR INSTALLATION

Drilling is required to install the front and rear drain tubes.

**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**

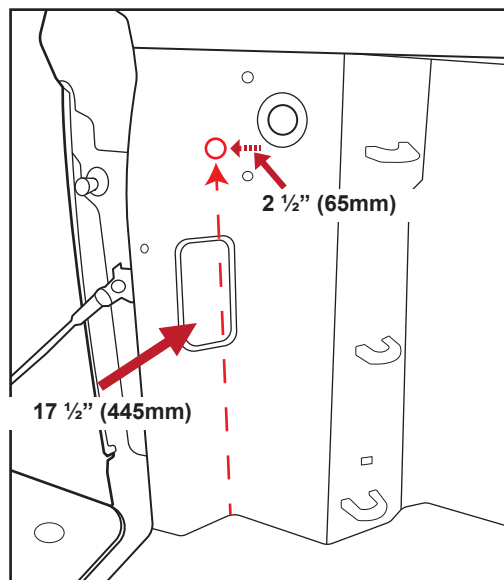
# INSTALLATION INSTRUCTIONS

**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:

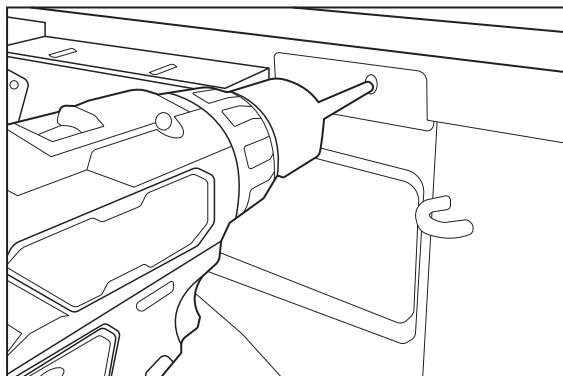
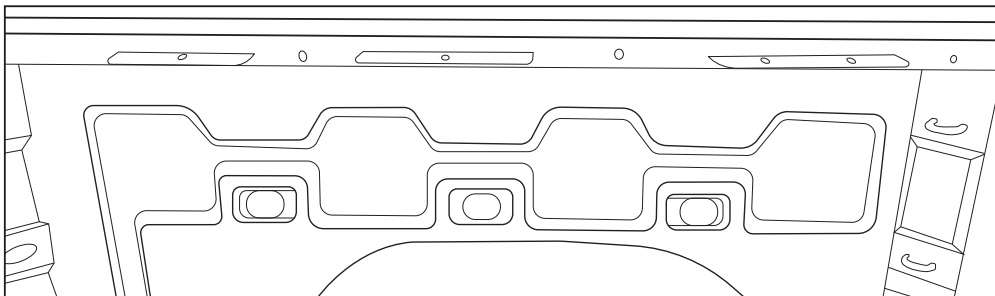
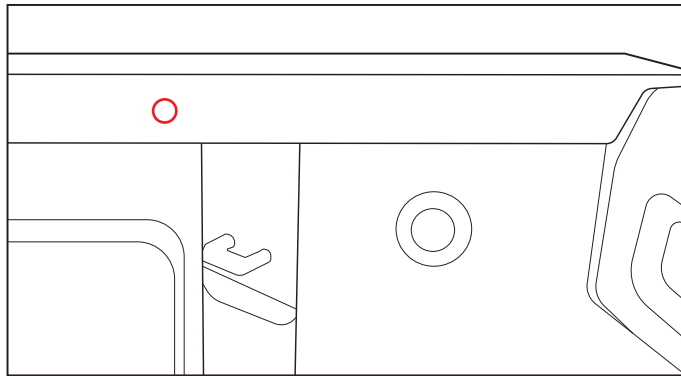
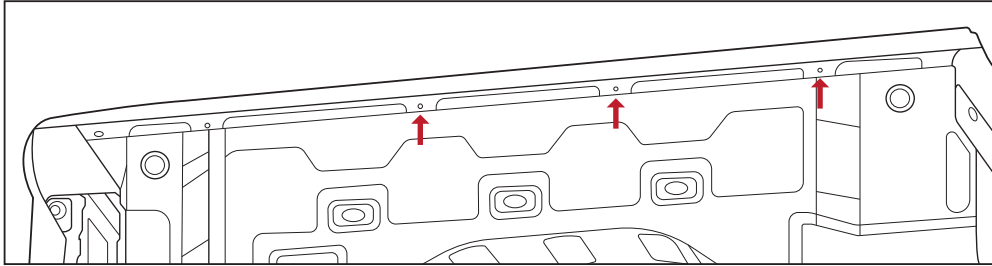
Measure approximately 2 1/2" (65mm) rearward from the large stake pocket hole on the side of the bed. Measure approximately 17 1/2" (445mm) from the base of the bed. Use a 19mm hole saw to drill one hole on each side of the bed.



# INSTALLATION INSTRUCTIONS

## Front Mount Brackets:

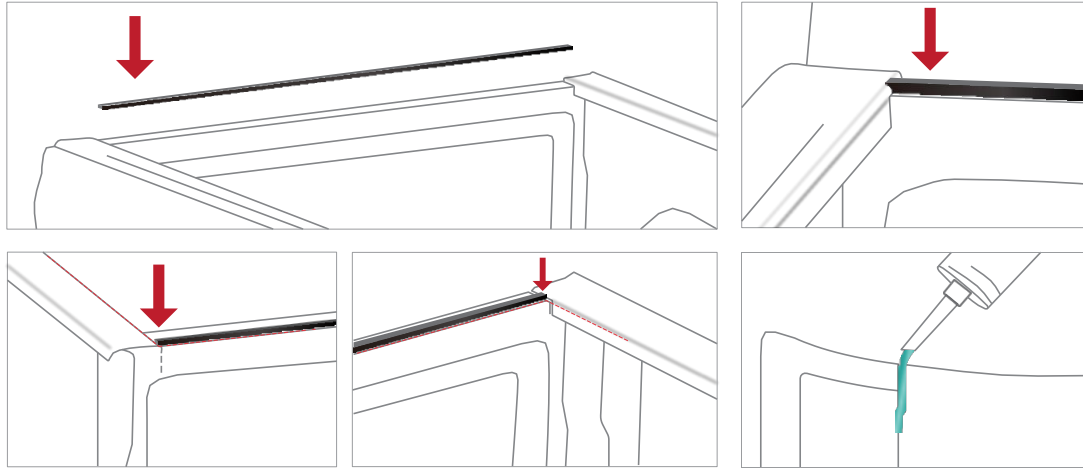
The front mount brackets will use holes in the metal bed rails behind the plastic bed caps. The first hole is 10.5in (167mm) from the front of the bed. Mark the hole on the plastic bed cap and use a 1/4" (6mm) drill bit to carefully drill through the plastic, making sure to not make contact with the 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



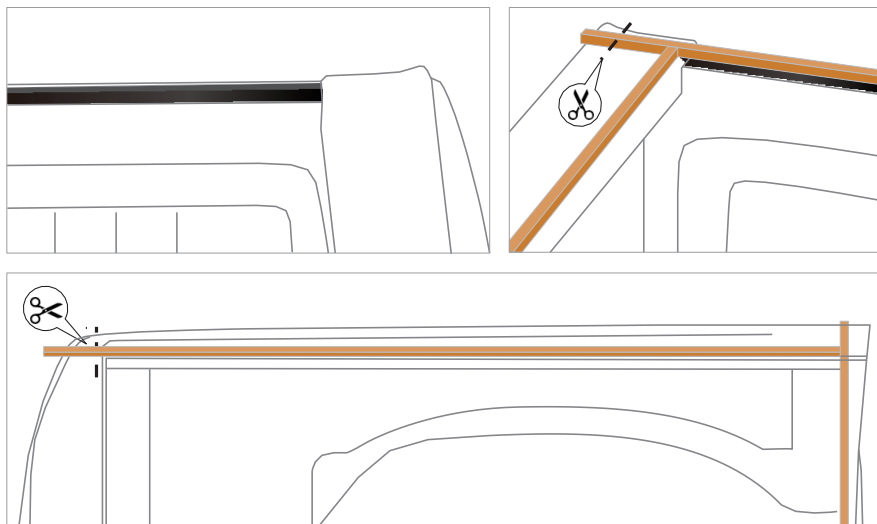
# INSTALLATION INSTRUCTIONS

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

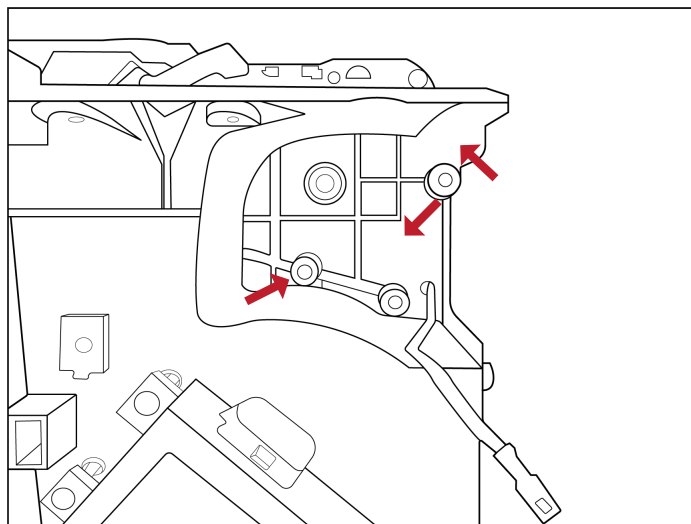


# INSTALLATION INSTRUCTIONS

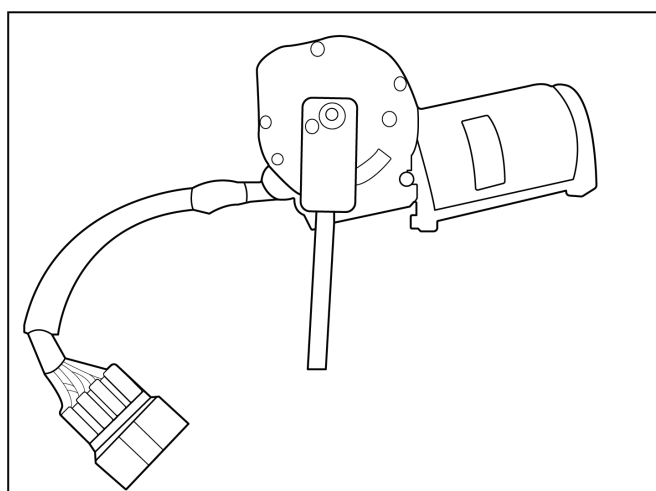
## STEP 3

### INSTALL MOTOR

Place the canister upright on level ground and locate the mounting location for the motor on the driver side

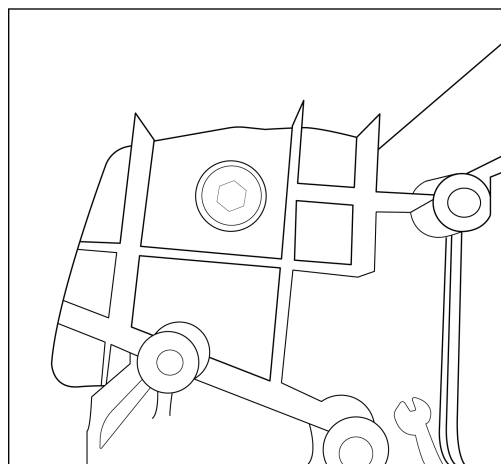
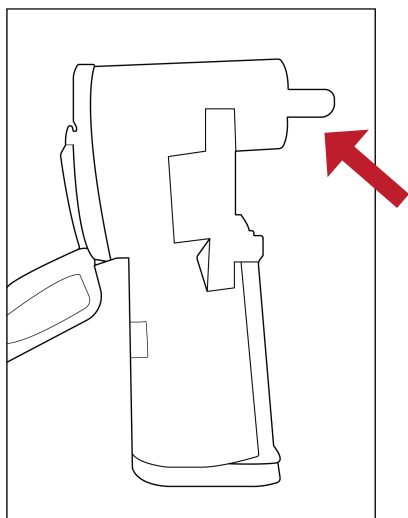


Install the motor clutch handle onto the motor assembly

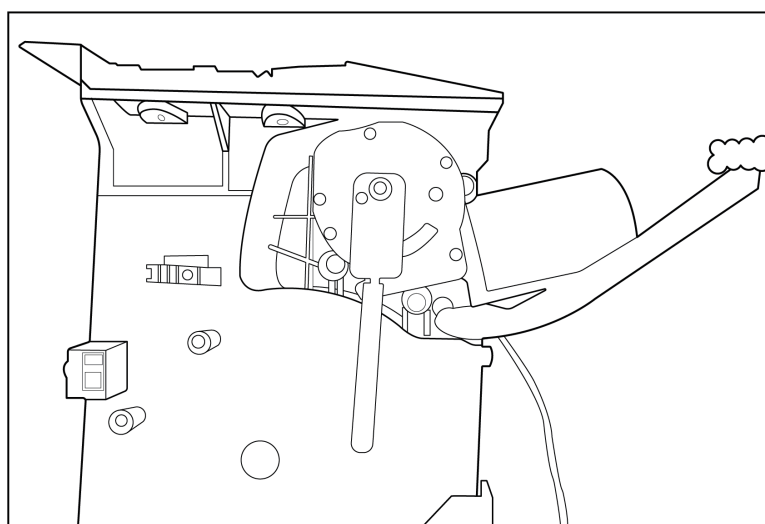


# INSTALLATION INSTRUCTIONS

Lift the clutch handle upward to disengage the motor. Rotate the motor arm so that it aligns with the rotating shaft in the canister.

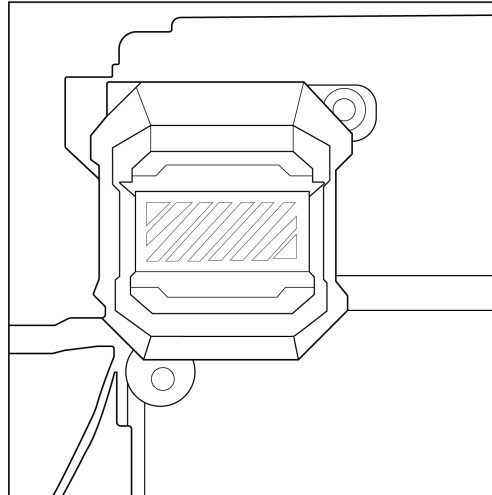
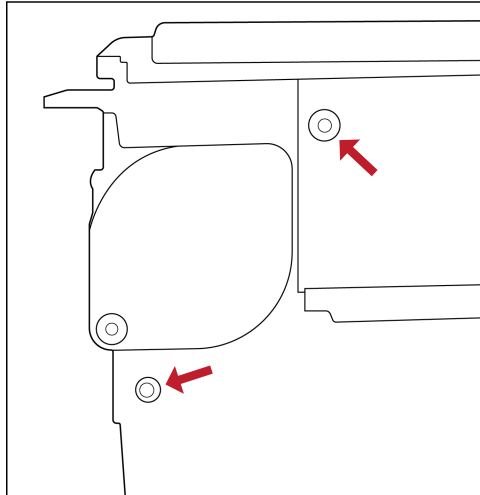


Route the motor harness and the canister light harness under the motor and use three (3) 6-1.00 x 20mm torx combo bolts to attach the motor to the canister



# INSTALLATION INSTRUCTIONS

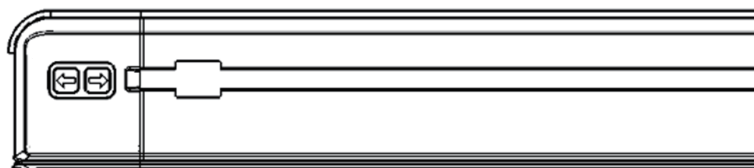
Temporarily remove two (2) T30 torx bolts from the canister. Line up the mount holes on the motor cover with the holes on the canister. Reinstall and tighten the two (2) T30 torx bolts that were previously removed from the canister



## STEP 4 INSTALL ECU AND 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

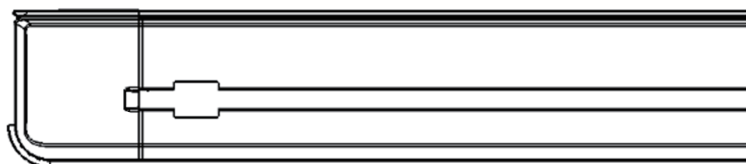
**Left Rail**



**Tailgate End**

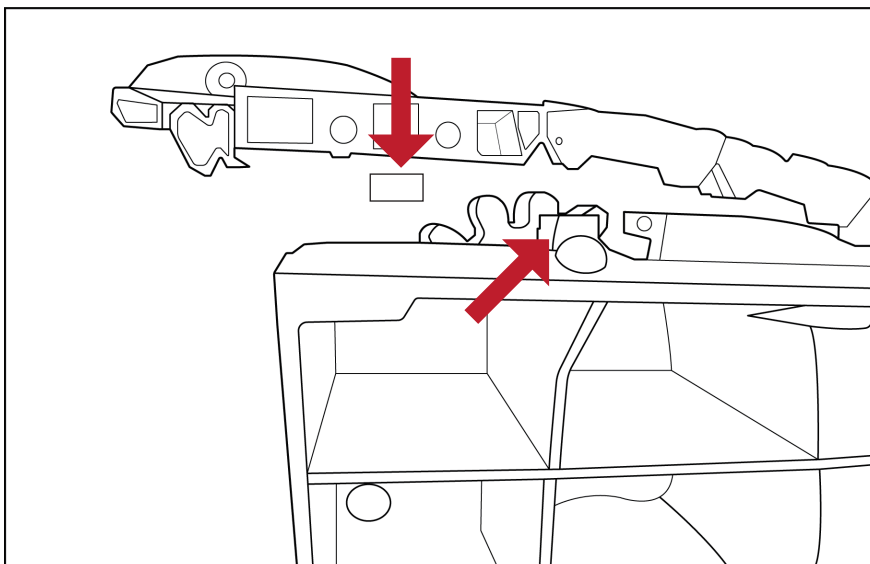
**Right Rail**

**Cab End**



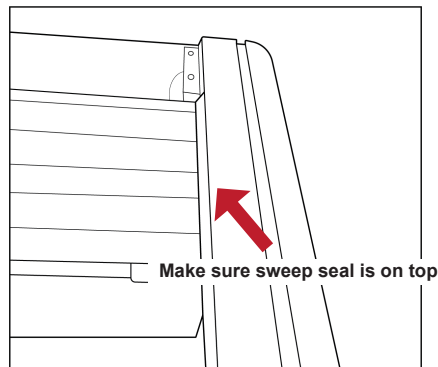
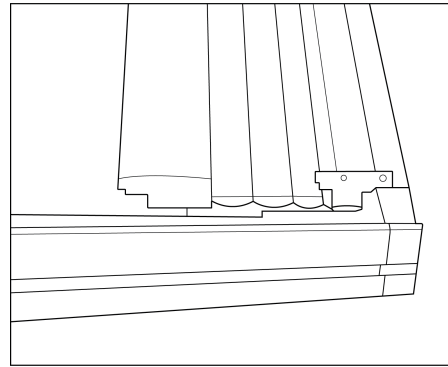
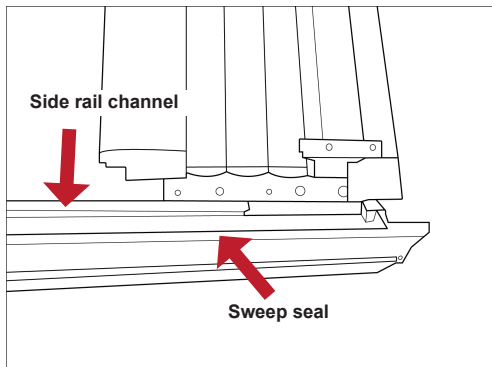
## INSTALLATION INSTRUCTIONS

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

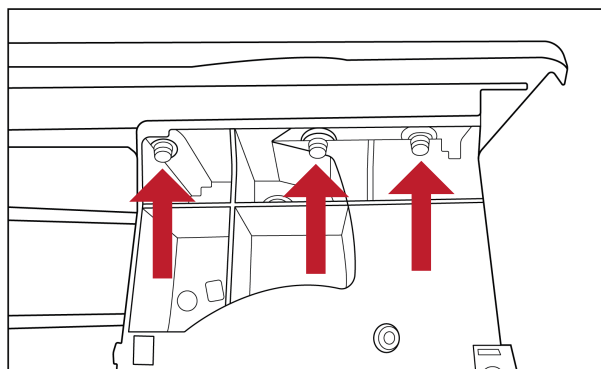


# INSTALLATION INSTRUCTIONS

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

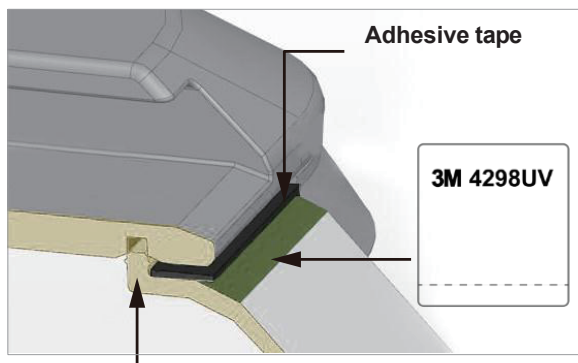
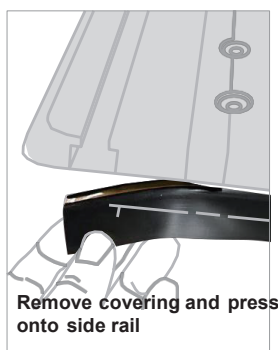
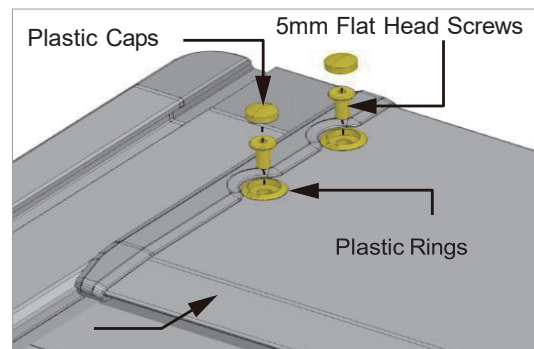
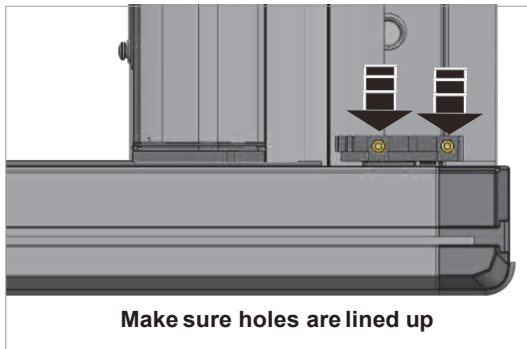
**Note: The top of the original shipping package may be used to hold up the ends of the side rails to help make this part of the installation easier**

# INSTALLATION INSTRUCTIONS

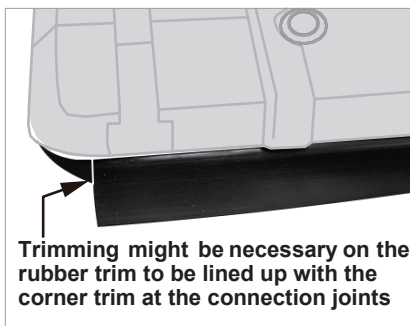
## STEP 5

### 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

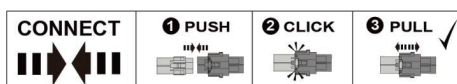
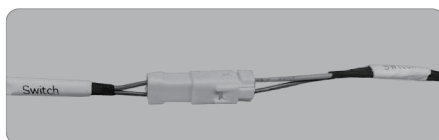
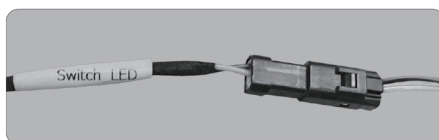
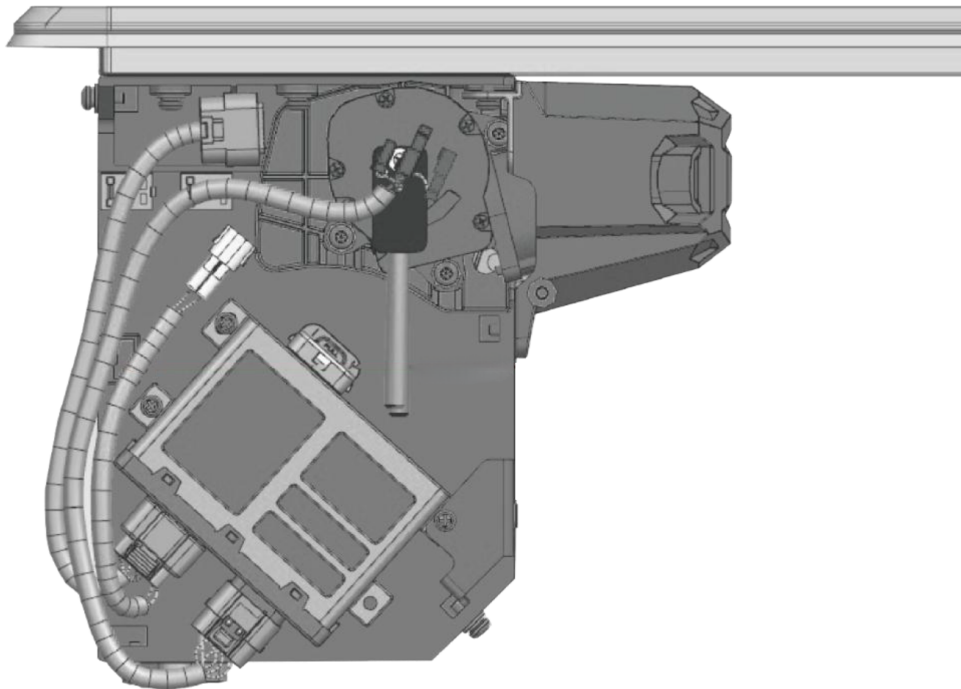


# INSTALLATION INSTRUCTIONS

## STEP 6

### 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



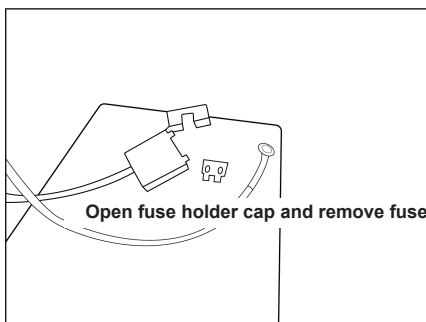
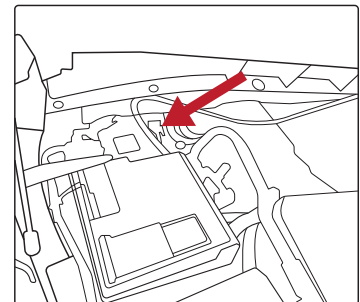
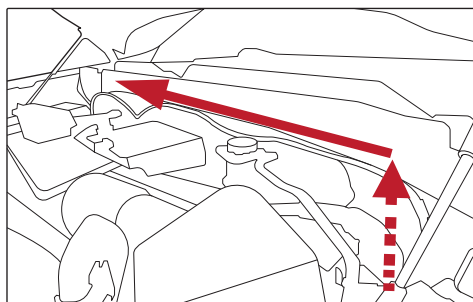
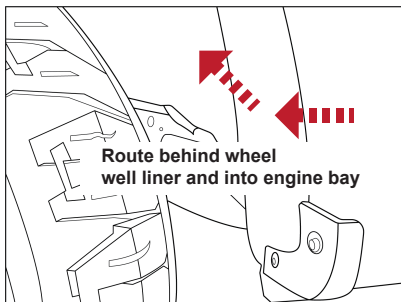
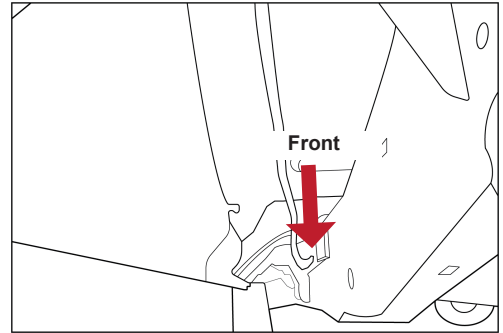
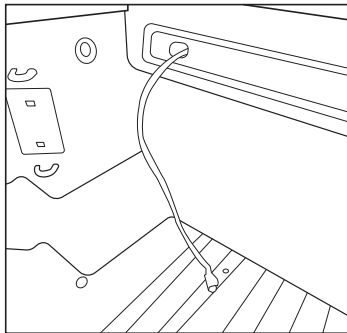
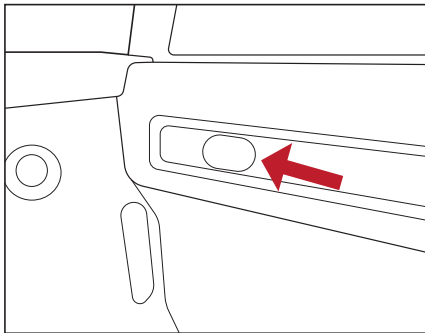
PULL THE CONNECTORS  
NOT THE CABLE

# INSTALLATION INSTRUCTIONS

## STEP 7

### 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

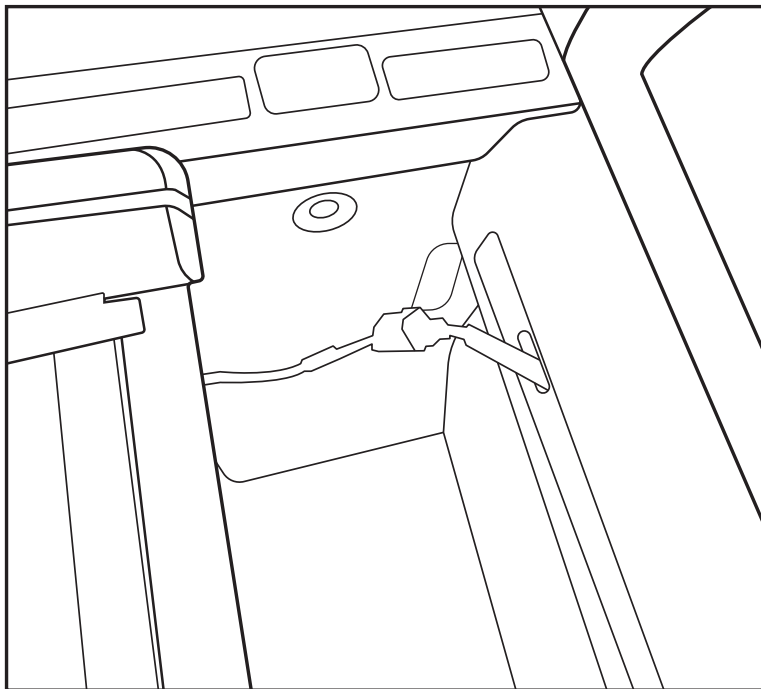


# INSTALLATION INSTRUCTIONS

## STEP 8

### 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.

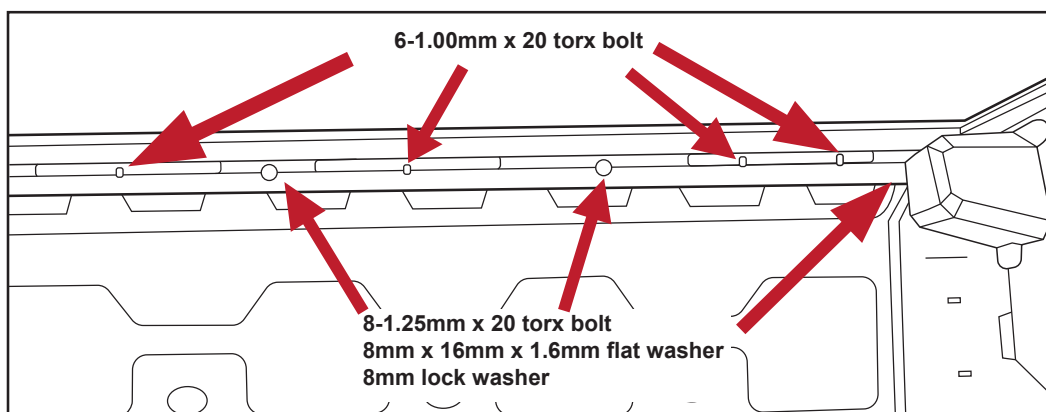
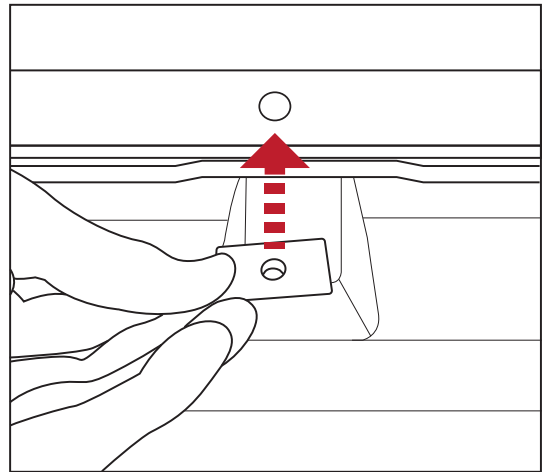
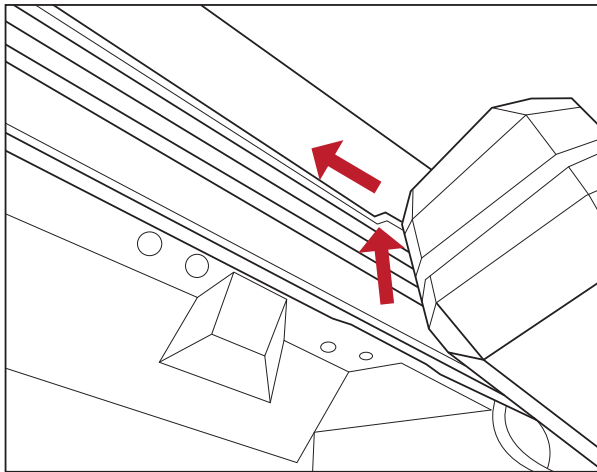


# INSTALLATION INSTRUCTIONS

## STEP 9

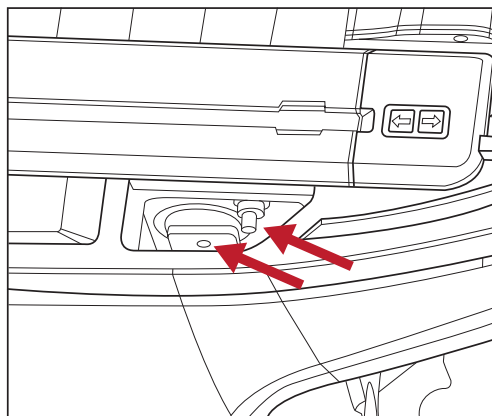
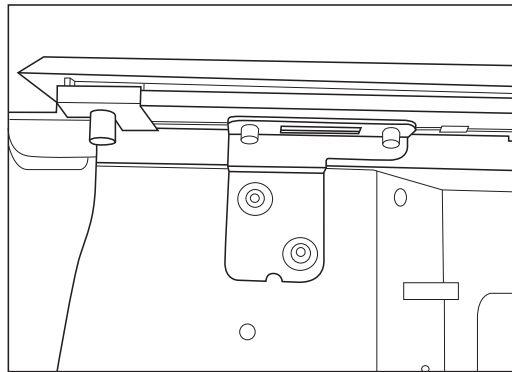
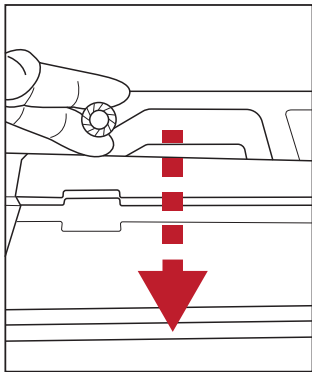
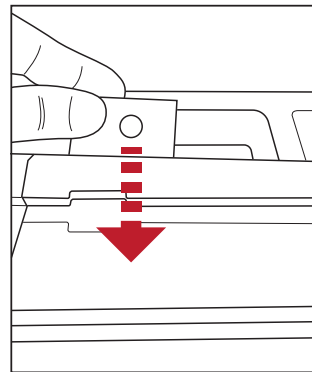
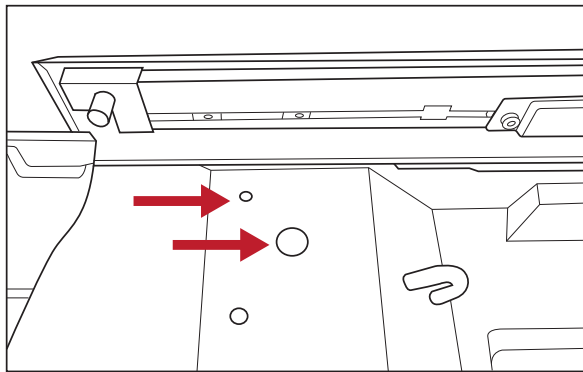
### INSTALL MOUNT BRACKETS

**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 lock 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.



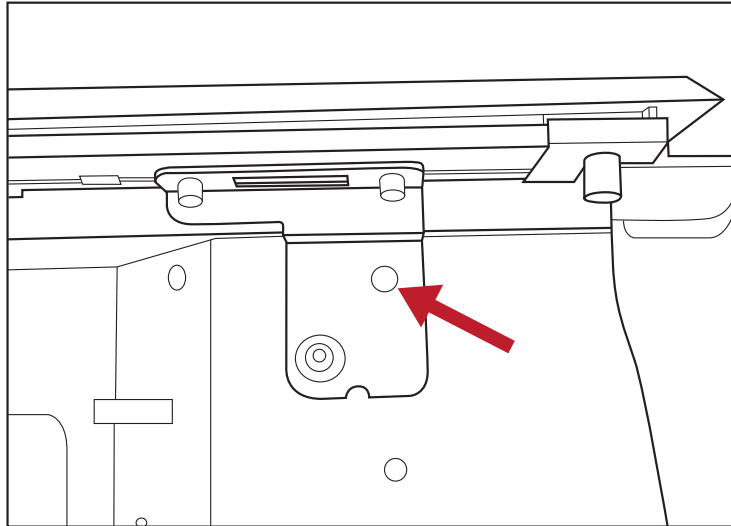
# INSTALLATION INSTRUCTIONS

**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 lock 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 lock 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.



# INSTALLATION INSTRUCTIONS

**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

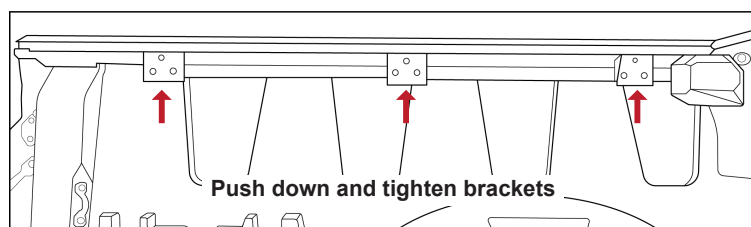
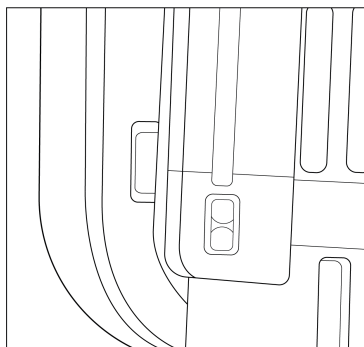
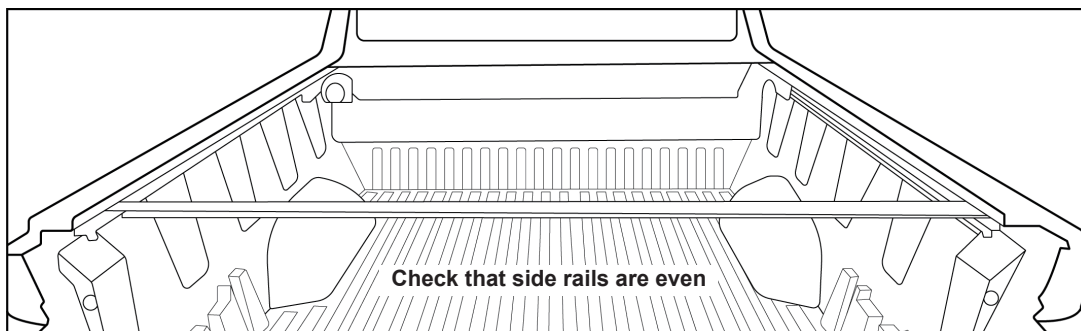


# INSTALLATION INSTRUCTIONS

## STEP 10

### ALIGN THE SIDE RAILS

Insert the included calibration bar into the channel on the inner side of both side rails. Slide the calibration 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 calibration 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

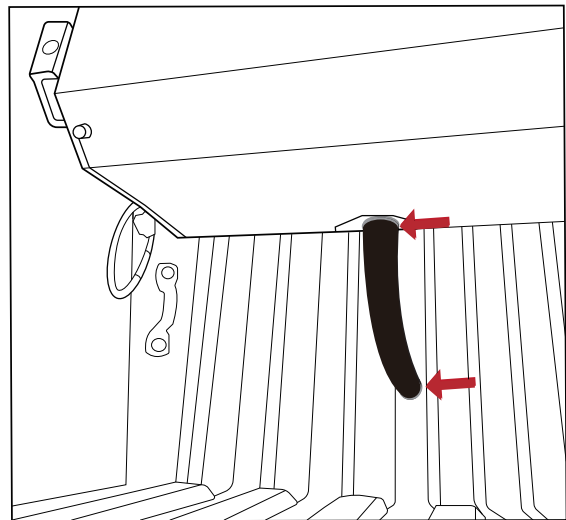
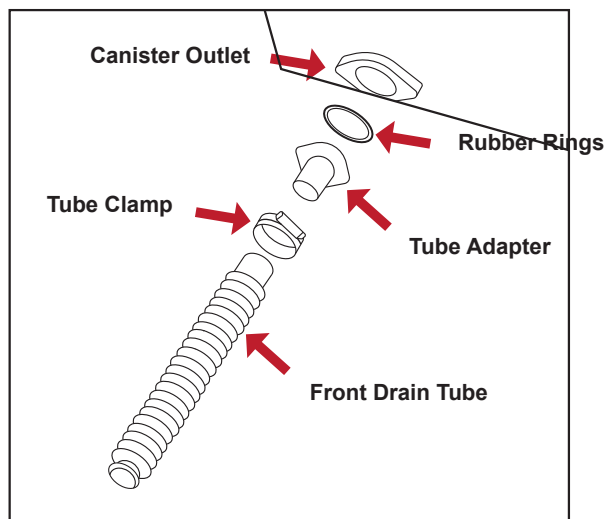


# INSTALLATION INSTRUCTIONS

## STEP 11

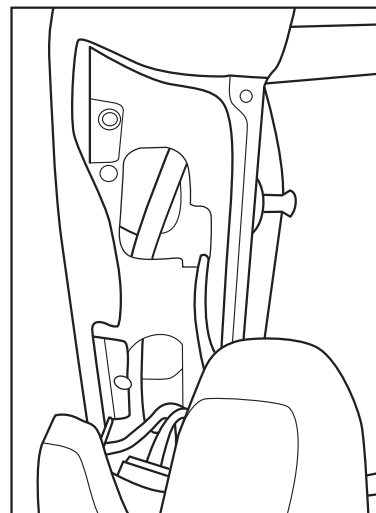
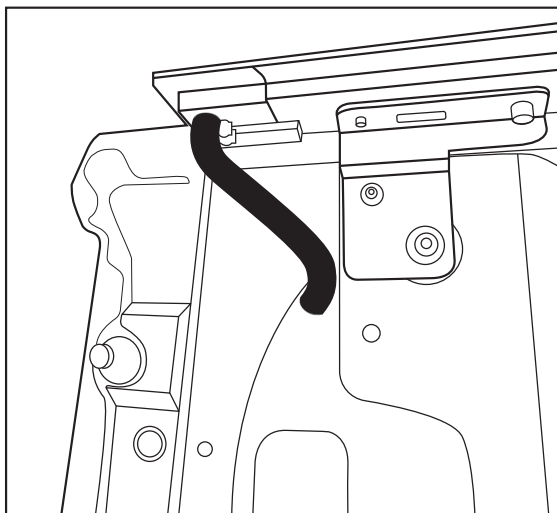
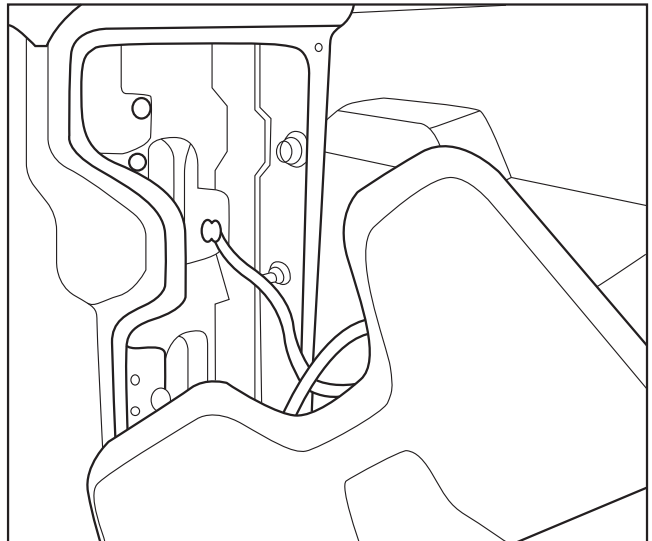
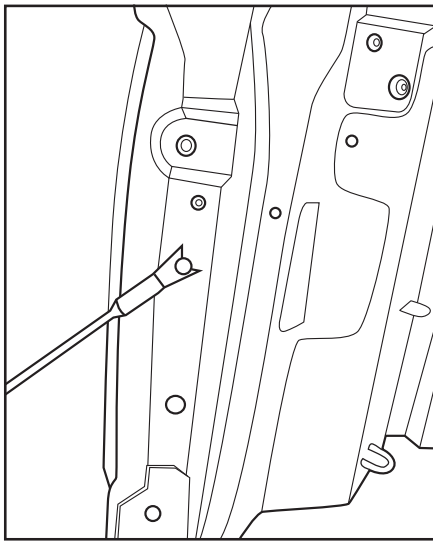
### INSTALL DRAIN TUBES

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.



# INSTALLATION INSTRUCTIONS

**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.



# INSTALLATION INSTRUCTIONS

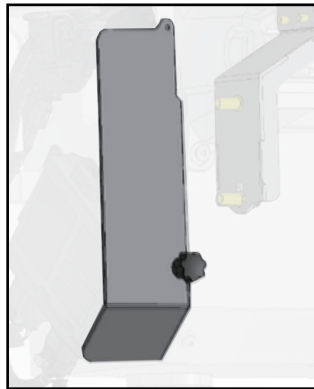
## STEP 12

### FINISH INSTALLATION

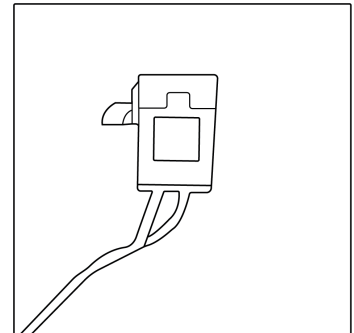
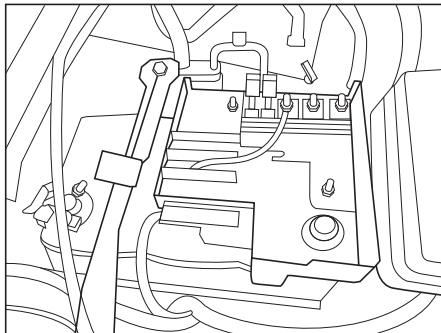
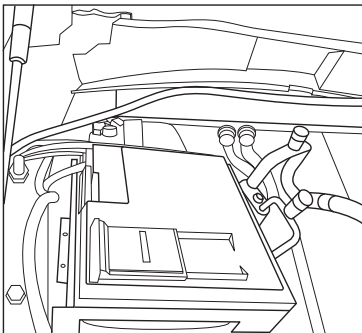
Double check that all bracket mount hardware is tight.

Ensure that the tonneau cover motor is engaged. If it is still in manual operation mode, push the motor clutch lever down, then pull on the end of the tonneau cover until the motor clicks, signifying that it is fully engaged

Install the block off panel on the driver side of the canister. Insert the nub on the top of the block off panel into the slot on the motor cover and pull down to hold it in place. Thread the knob into the bottom hole to lock the block off panel in place



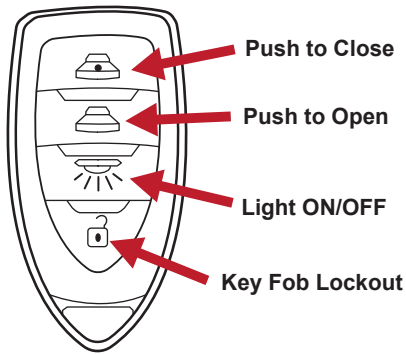
**Under the hood, locate the positive and negative terminals on the vehicle battery. Carefully install the positive and negative ends of the tonneau cover power harness onto the corresponding terminals on the vehicle battery. Once the tonneau cover power harness is securely attached to the vehicle battery, place the fuse back into the fuse holder and push the cap down until it is locked in place. Secure the wires in the engine bay so they will not get damaged by moving/hot components**



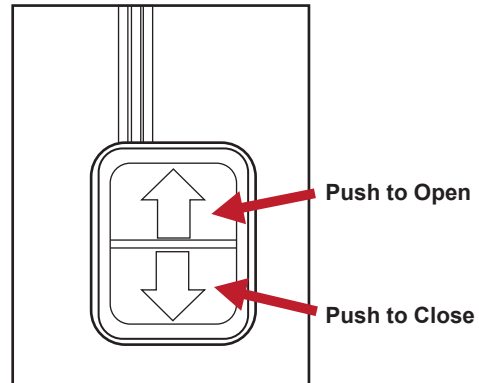
# INSTALLATION INSTRUCTIONS

## OPERATION OF THE TONNEAU COVER

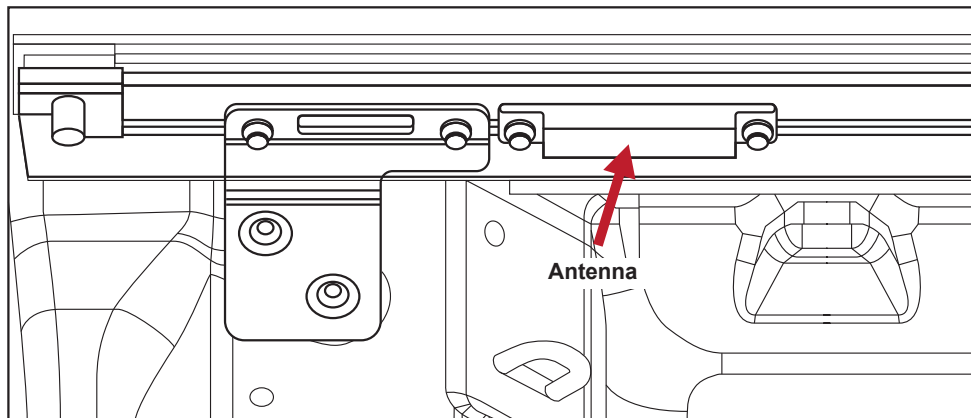
Remote Key Fob



Side Rail Mounted Buttons



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



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

- Press the Key Fob Lockout button to unlock the key fob, then press and hold the Light On/Off button for 3 seconds to activate the self-calibration function.
  - When it starts the LED light will flash 3 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.

# INSTALLATION INSTRUCTIONS

- o The tonneau cover will open all the way to learn the fully open position
- o After 2 seconds, the tonneau cover will automatically close all the way to learn the fully closed position
- o When the self-calibration is complete, the LED light will flash 3 times to confirm that the self-calibration process has been successfully 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

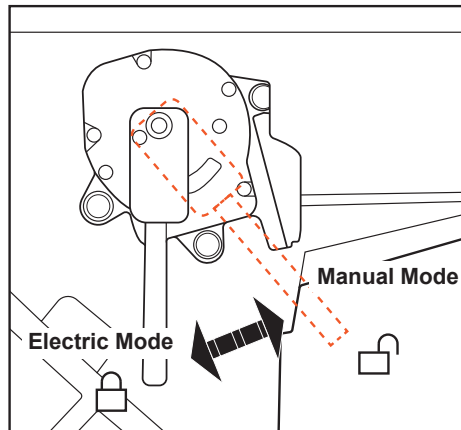
## Functions:

- **Tonneau Cover Key Fob Lockout- when the key fob is locked, the buttons on the key fob will not operate the tonneau cover until it is unlocked. The push buttons on the driver side tonneau cover side rail will still work as long as the key fob is within range**
  - o Press key fob lock button- key fob use will be locked/unlocked
  - o The key fob will automatically enter lockout mode if it is out of range of the antenna for more than 5 minutes
  - o The first time the tonneau cover is connected to power or if it is disconnected from power, the key fob will enter its default “locked” status
  - o The ECU will emit a sound to signify the status of the key fob each time the lock/unlock button is pressed
    - 1 beep- key fob is unlocked
    - 2 beeps- key fob is locked



# INSTALLATION INSTRUCTIONS

- To open the tonneau cover- with the key fob in range, either press the open button on the key fob (must be unlocked) 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 (must be unlocked) 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**

- 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; endwith 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

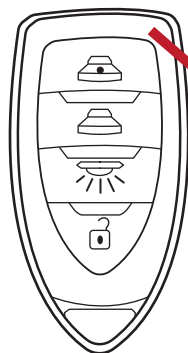
# INSTALLATION INSTRUCTIONS

## 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
- Inspect the remote key fob and replace the battery as needed. The LED light on the key fob will change from green to red to indicate low voltage from the battery and that it should be replaced soon



### Indicator LED

Normal Use: Green light when key fob is activated.

Low Battery: Red light to remind changing battery cell of the key fob within 3 months

# INSTALLATION INSTRUCTIONS

## WARNING AND SAFETY INFORMATION

- Do not use the truck bed as a passenger compartment. In case of entrapment: Disengage the motor by removing the cover panel and lift the clutch release handle upward (front driver side of bed). Pull on the tonneau cover to retract.
- Do not store or transport volatile materials such as solvents, chemicals, or liquids as fumes may accumulate inside the bed. Do not allow solvents, chemicals, or oils to come into contact with the tonneau cover. If this happens clean the tonneau cover immediately with a mild detergent and water solution.
- Do not stand/sit or rest heavy objects on the tonneau cover.
- Do not fill or store volatile liquid containers such as fuel cans while under the tonneau cover.
- Do not drive the vehicle with the motor clutch disengaged- free moving tonneau cover may move causing injury or damage to property while driving
- The tonneau cover is designed to be water and dust resistant in the majority of situations, in certain extreme environments a certain level of ingress is to be expected. Items that are of high value and are susceptible to water damage should be packaged accordingly. Condensation on the underside of the tonneau cover should be expected under certain conditions (cool days/nights).
- Do not subject the tonneau cover to excessive open/close forces. Excessive force may damage internal components, replacement of which may not be covered in your warranty
- While the tonneau cover has a built in safety feature to prevent damage and injury, you must keep obstructions clear of cover during opening/closing
- To ensure your tonneau cover continues to operate in a trouble free manner we recommend recalibrating the cover every 6 months. This interval may be reduced if you notice any irregularities when opening or closing the cover

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