



Installation Manual

Powered Retractable Tonneau Cover

for the

Chevrolet Avalanche and Cadillac Escalade EXT



Parts List:

- Qty=1 Powered tonneau module

To attach pump Box

- Qty=2 M6 Screws, Length=30mm
- Qty=2 M6 Washers

Upper Receivers to mount to roof

- Qty=2 Upper Receivers

Tonneau connection parts

- Qty=8 M6 Bolts
- Qty=8 M6 Washers
- Qty=8 Shims
- Qty=1 Plastic wire housing tubing (length=18")
- Qty=2 Rail Seals

Control switch mounting and power

- Qty=2 Screws (Black #6, 1/2")
- Qty=5 Cable Harness straps
- Qty=1 Wire harness to battery with 30amp fuse

Tools and Materials Required:

- Hand Drill with 1/16" and 1/4" Drill Bit, (for mounting the switch and wire ties to inside of bed only)
- Torque wrench
- 4 and 5mm Allen wrenches
- Screwdriver (#2) Phillips
- Denatured Alcohol
- Clean cloths
- Masking Tape

Overview:

1. Remove the factory tonneau panels and brackets. Install rail seal
2. Run power line to battery.
3. Install Tonneau Module.
4. Set and install upper receivers.
5. Mount Control Switch, bed wiring, and bed seals.

Section 1.

Remove factory original tonneau panels and install rail seal

1. Remove the 3 original Tonneau panels from the bed.
2. Remove the plastic drain troughs on each side of the bed opening. Note: Save these drain troughs. They will be reinstalled later.
3. Unbolt all Tonneau panel attachment brackets from the vehicle. There are 4 brackets on each side.
4. Do **NOT** remove the drain troughs located at the front of the bed.
5. Thoroughly clean top of rail with denatured alcohol. Let dry before proceeding to next step.
6. Aligning the seal to the inboard edge of the rail, apply rail seal as shown along the entire length of the rail. Be sure not to stretch the seal when applying the seal to the rail. Push down on the entire length of the seal to ensure wet-out. Apply to both rails. Be sure the seal is completely wet-out to the rail.

Parts removed from old tonneau cover rails.



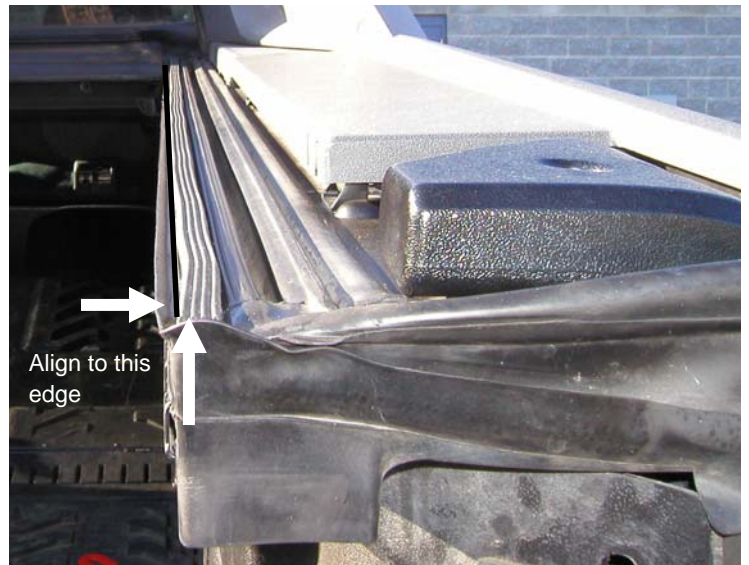
Plastic drain trough removed (2 pieces LH/RH) near tailgate opening



Plastic drain trough removed (2 pieces LH/RH)



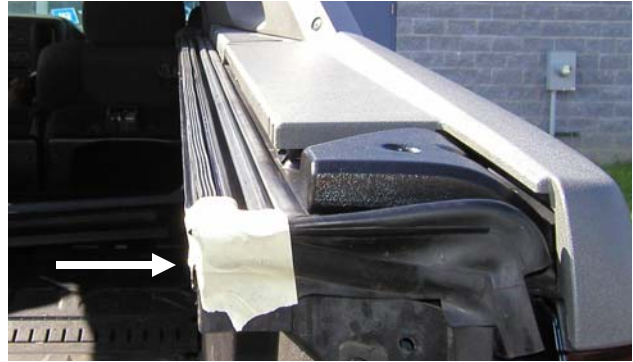
Tonneau attachment brackets removed



Install rail seal here on left and right hand side rails

Section 1. (continued)

7. Apply masking tape to the end of the seal. This will prevent the seal from peeling up when installing the tonneau in section 3.



Tape the end of the rail over the new seal to prevent peeling when installing the tonneau in section 3.

Section 2.

Run power line to the battery

1. From underneath the vehicle, run the power cable through the forward drain opening on the left hand side of the bed. Leave approximately 18 inches of cable in the bed to connect to the tonneau system. Attach the plastic wire sleeve over this section.
2. From the drain opening run the power wires with zip ties to the electrical bundle running along the frame rail to the engine compartment.
3. Run the cable up through the engine compartment to the battery. Take care to keep the wires away from hot and moving components. Zip tie the wire to the existing wire bundle.
4. At the battery, connect the red wire with ring terminal to the positive junction box. Ground the black wire with ring terminal to the body. Recommended attachment point is at one of the fender bolts located near the battery.



Route power cable through forward drain hole on left hand side.



Power cable shown with plastic sleeve.

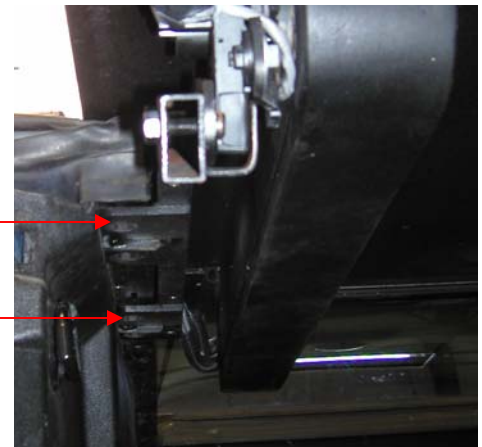
Section 3.

Install Tonneau Module

1. For ease of installation, remove rear window and lower mid-gate seatback.
2. Remove the tonneau system from the crate with the pump box and switch box on top of the panels as shown. With two people, load the tonneau system onto the bed of the truck. Slide the tonneau panels forward with the panels on top of the rails and the mounting brackets on the bottom of the rails. Note: The rubber flaps at the rear of mounting rails will push aside while sliding the tonneau system in to place.
3. Lower the pump box and switch box into the bed.
4. Continue sliding the panels forward until the seals contact the forward part of the bed.
5. Attach the tonneau to the rails with the 8 M6 screws and washers. Install 1 shim in between the bracket and rail at each screw location. Do not completely tighten the screws yet.
6. Check to make sure the tonneau is square on the bed. Align the tonneau system on the truck bed, so it runs parallel to the vehicle and it has a slight seal interference with the closed lift gate.
7. Slowly close the tailgate making sure there is good seal contact to the tonneau panel seal. Move the tonneau panels as necessary to ensure good contact along the entire length of the panel seal. Leave the lift gate closed.



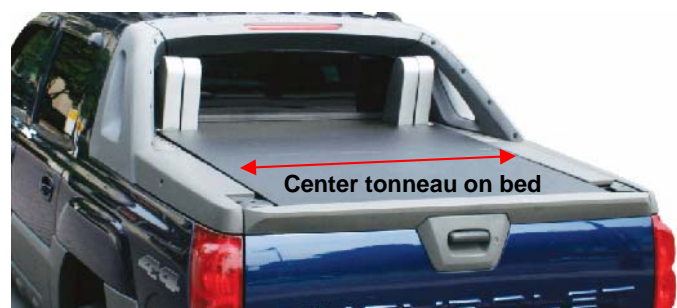
Tonneau Module shown with pump box and switch on top of panels



Slide the panels slowly onto the factory rails. Note the lower mounting brackets go below the rails.



Carefully lower pump box and switch into the bed

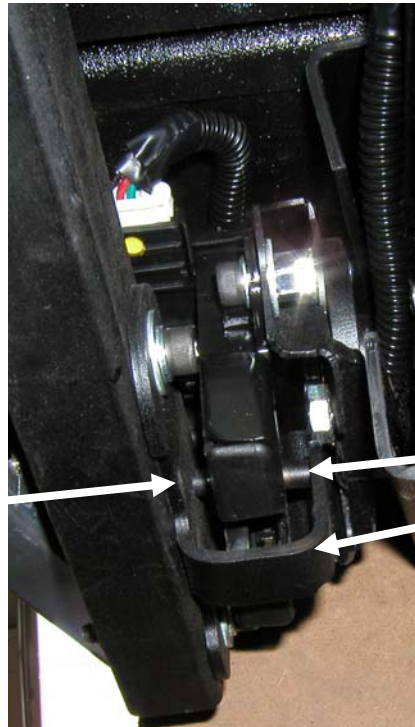


Center Tonneau system on the bed

Section 3.

Install Tonneau Module (continued)

9. Center the latch to the lower receiver . This can be adjusted by moving the mounting arms cross-car in the rear. You may need to hold the arms while you tighten the mounting screws in the next step.
10. Push the mounting arms outward and tighten the front screw on each side to 12 N-m (9 ft-lb)
11. Tighten the remaining mounting screws to 12 N-m. (9 ft-lb)
12. Close the mid-gate. Check for good seal contact between the front of the tonneau seal and mid-gate sealing surface.
13. Open and close the rear tailgate. Check seal engagement to the rear of the tonneau and that the tailgate latches correctly. If the tailgate is hard to latch, it may be necessary to adjust the tailgate latch receivers. **See Section 3A if you need to do this adjustment**
14. Attach the pump box with the 2 screws M6 and M6 washers . Tighten to 12 N-m. (9 ft-lb)
15. Attach the line from the battery to the pump box quick connects. Red lead to the red wire and black lead to the black wire.
16. Re-attach the rear water trough near the end of the tailgate.



Center latch to the lower receiver

Lower latch receiver



Mount the pump box to the tonneau frame at these locations



Re-attach the rear water trough near the tailgate

Section 3A

Adjusting the tailgate latch receivers

Following steps are required if you find it necessary to adjust the rear tailgate closing position.

1. Remove tail light lenses
2. Scribe the washer location.
3. Loosen the receiver and move the receiver fore-aft the required amount necessary to adjust for proper closing.
4. Tighten and close tailgate. Check for good seal contact. Make sure seal is not over compressed at the rear of the tonneau.
5. Repeat steps if not closing and latching properly.



Adjust receiver

Section 4.

Install Upper Receivers

Concept: Install the upper receivers to the roof of the vehicle so the tonneau latches can latch to the roof of the vehicle. It is important that the receivers are aligned to the latches on the tonneau panels for the latches to latch and operate correctly. The temperature of the panel and upper receiver adhesive tape should be at least 70 deg F for good adhesion of the tape to the roof.

1. Clean the roof area with denatured alcohol where the upper receivers mount to the roof. **IMPORTANT:** The roof area where the latches receivers are mounted must be absolutely clean to insure good adhesion to the roof.
2. Push the up button on the tonneau switch and bring the panels up to the roof as far as they will go. Release the up button when the panels are all the way up. Note: The system will not stop automatically as the latches have not been activated yet by the receivers.
3. Obtain the two upper receivers . Do **NOT** remove the adhesive liner yet. Manually lift up the panels and slide the latch receivers under and into the latch. Carefully position the receiver on the roof with the angled side facing forward, Repeat the process on the other side.
4. Center the receivers to the latches and to the roof.

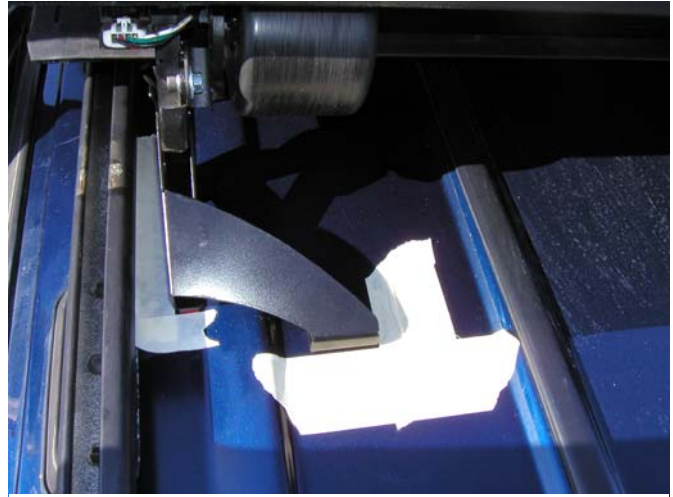
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Section 4.

Install Upper Receivers (continued)

5. Using masking tape, mark the position of the receiver on the roof.
6. Carefully cycle the tonneau to the closed position until it releases the upper receivers.
7. Remove the receivers from the roof.
8. Continue cycling the tonneau down to the closed position.
9. Clean the roof area with denatured alcohol where the upper receivers mount to the roof. **IMPORTANT:** The roof area where the latches receivers are mounted must be absolutely clean to insure good adhesion to the roof. **Insure the area is completely dry and that the roof and adhesive tape on upper receivers is above 70 deg F before adhering the upper receivers.**
10. Starting with one side, remove the adhesive liner on the receiver. Using the tape guides to position the receiver, apply the receiver to the roof. Press down firmly on the receiver to insure good wet-out of the adhesive tape. Repeat on the other side.
11. Wait 15-20 minutes for the adhesive to start curing.
12. Run the tonneau system up to insure the tonneau latches to the upper receiver. Run the tonneau back to the closed position
13. Re-check that the adhesive tape is completely wet-out to the roof. Press down firmly in any areas where the tape is not wet-out to the roof.
14. **NOTE:** The adhesive will need approximately 24 hours to gain full strength. It is recommended that the tonneau cover not be fully opened and latched to the upper receiver until the adhesive tape is fully cured.



Mark the position of the receiver on the roof with masking tape



Receiver installed on roof

IMPORTANT: For best results in adhering the upper receivers to the roof, the application temperature range should be between 70 to 100 deg F.

Section 5.

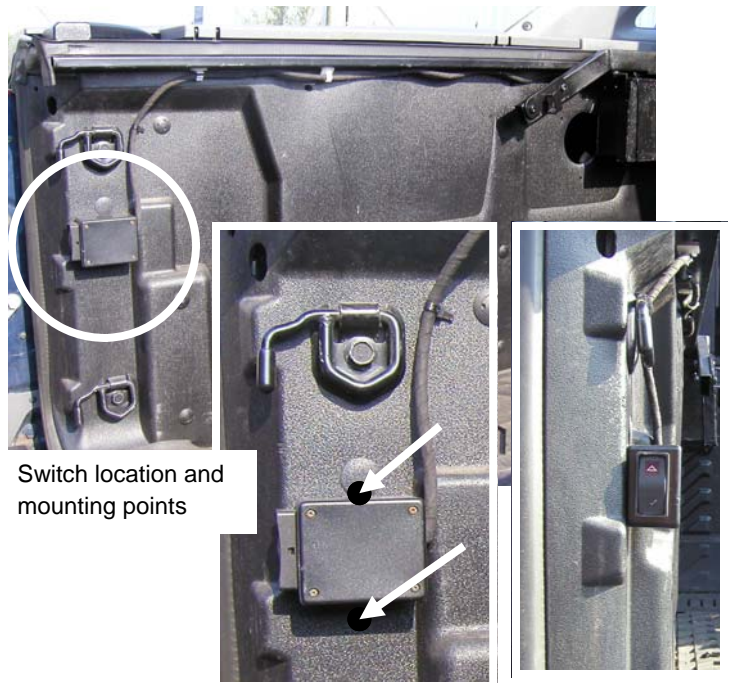
Mount Control Switch and Bed Wiring

1. For ease of mounting, run the tonneau up to the roof.
2. Locate the switch box to the rear left hand side bed wall. Be careful to locate the switch so that it does not interfere with the tailgate when closed.
3. Mark the mounting holes of the switch box on the side of the bed and drill a 1/16in pilot hole.
4. Attach the control switch with 2 screws (#6, 1/2" black sheet metal screws)
5. Install the cable harness straps as shown in the diagram. Drill a 1/4inch (6mm) size hole to install the cable strap to the bed. After securing the cable, trim the excess strap

Installation is now complete

Delivery to Customer

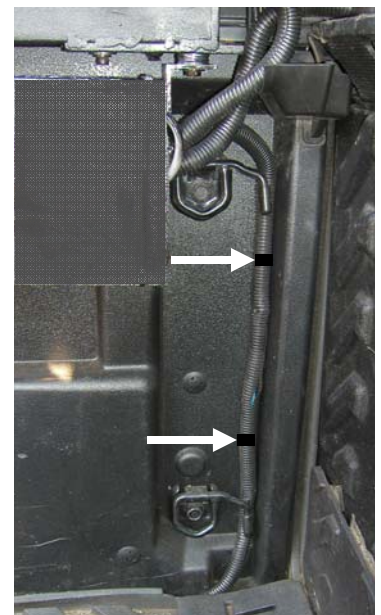
1. Make sure the customer receives the owner's manual.
2. Complete warranty card and return to Auto-Covers Inc.



Switch location and mounting points



Cable strap locations



Cable strap locations for power line to battery