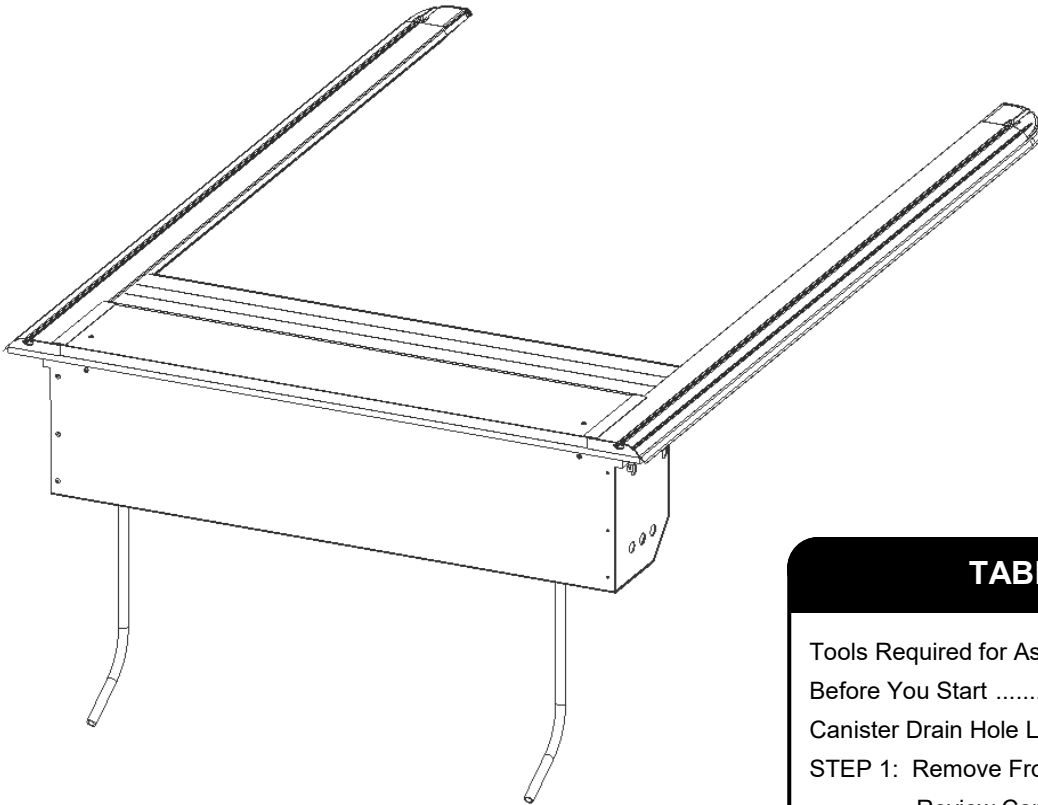


UltraGroove Electric™

Electric Retractable Tonneau Covers

INSTALLATION INSTRUCTIONS FORD F150 / MAVERICK



(800) 338-3697

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Pace Edwards Company

2400 Commercial Blvd.

Centralia WA 98531

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TOOLS REQUIRED FOR ASSEMBLY

- Tape Measure
- 3/8" Wrench
- Utility Knife
- Side Cut or Needle Nose Pliers
- Masking tape
- #2 Phillips Screwdriver
- 5/32 Allen Wrench

Note: There should be no drilling into the truck body needed on most standard or full-size trucks.

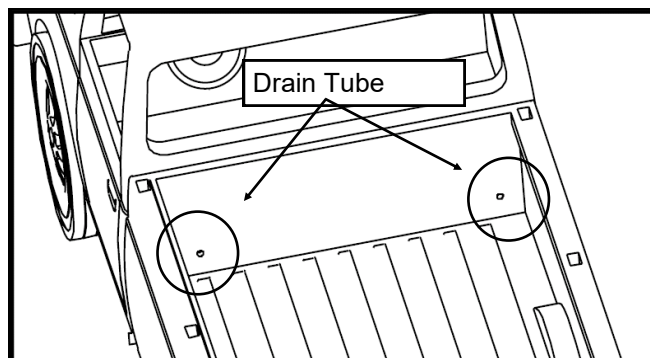
BEFORE YOU START:

Read the instructions carefully before you start. These instructions are written for one-person installation. We have noted where briefly having an extra person's assistance can make installation easier.

If you have questions regarding the installation of your new retractable tonneau cover, please call our Technical Support Line at (800) 338-3697 Ext #1.

CANISTER DRAIN HOLE LOCATIONS:

This tonneau cover is designed to carry rainwater from the cover into the canister and then out through the drains. Most truck models have standard OE drain holes or plastic/rubber access ports in the front of the truck bed. Check to make sure your truck has the OE drain holes so that drilling into the sheet metal is not required. If drilling is necessary, be sure to check the underside of the truck bed for the best location. The holes should be located near the side and as far forward as possible. Use a drill bit suitable for sheet metal (such as a taper drill or step drill). Drill drain tube clearance holes at 3/4" (19mm). This will need to be done before installing the cover. **(WARNING: Use caution not to drill into wires, hoses or the cab!)**



STEP 1: REMOVE FROM PACKAGING AND REVIEW CONTENTS

A complete unit will consist of one canister box (marked box 1 of 2) and one rail box (marked box 2 of 2). Remove the Top Cover, Canister, Clamp pack, Hardware pack, Foam, Clamp Extensions and Drain Tubes from the Canister box. Remove the rails from the rail box (see caution below). Perform a quick inventory of the packaging contents to ensure all parts are there.

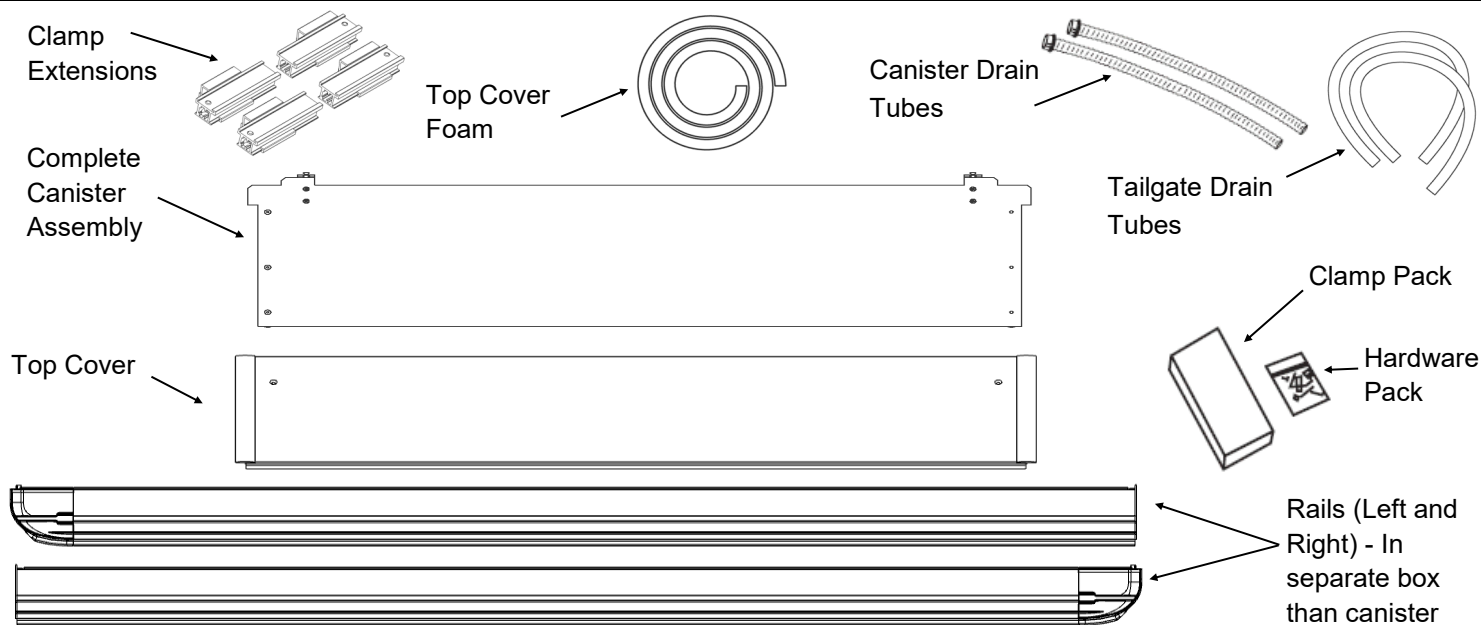
DISCARD PLYWOOD PACKAGING AND BOLTS!



TO AVOID SCRATCHING THE SURFACE OF THE RAILS, DO NOT SLIDE THEM OUT THE END OF THE BOX. OPEN THE BOX ALONG THE LENGTH, USE PLIERS TO PULL THE STAPLES, LIFT THE RAIL OUT. DO NOT USE A KNIFE TO CUT THE BOX



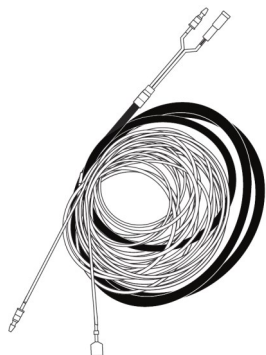
PACKAGING CONTENTS:



STEP 2: INSTALL WIRING HARNESS

HARDWARE USED:

(If the optional wire harness **Part # BL1120** is used, you may want to tape it to the main harness to ease having to pull them through the bottom of bed separately).



WIRE HARNESS x 1



ZIP TIES x 5

From inside the truck bed push the long wire harness end without the plug through the stake pocket on the drivers side of the truck and out the underside of the truck bed box.

Leave approximately one foot of slack inside the box for mounting the electronics.

Route the wire harness under the truck and to the battery in the engine compartment.

Attach the fuse holder to the end of the Red/positive wire.

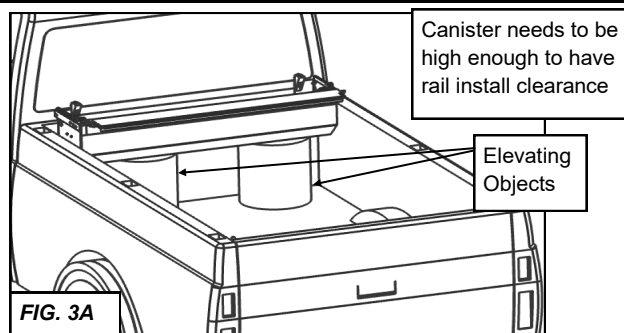
(Do not attach to the battery yet.)

Secure the harness with wire ties provided after slack from the canister had been taken out.

STEP 3: POSITIONING CANISTER

Place the Canister in truck bed just behind the cab and center it from side to side. You will need to place the canister on elevating objects, such as the box the canister came in or 5 gallon buckets. (If you have someone to help you, you can jump to step 4 and install the assembled canister and rails on the truck.)

Note: Ensuring that the canister is centered in the bed will help assemble the rails to canister in the next step.



STEP 4: INSTALLING RAILS

Identify the left and right side rails, the end with the plastic cap will be facing the tailgate (FIG. 4A).

REMOVE THE PROTECTIVE PAPER ON UNDERSIDE OF RAILS. THIS IS FOR PACKAGING PURPOSES ONLY!

Pull the Lead Rib Flange toward the tailgate enough to clear the Canister Flange and Canister Stop, then slide the Installation Tool onto the Canister Flange near the side that the rail is being installed on and rest the Lead Rib Flange on the Installation Tool (FIG.4B).

HARDWARE USED:



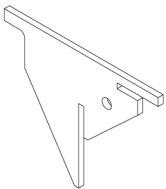
1/4-20 X 3/4" RAIL
SCREW x 2



1/4" LOCK
WASHER x 2



1/4" FLAT
WASHER x 2



INSTALLATION
TOOL x 1

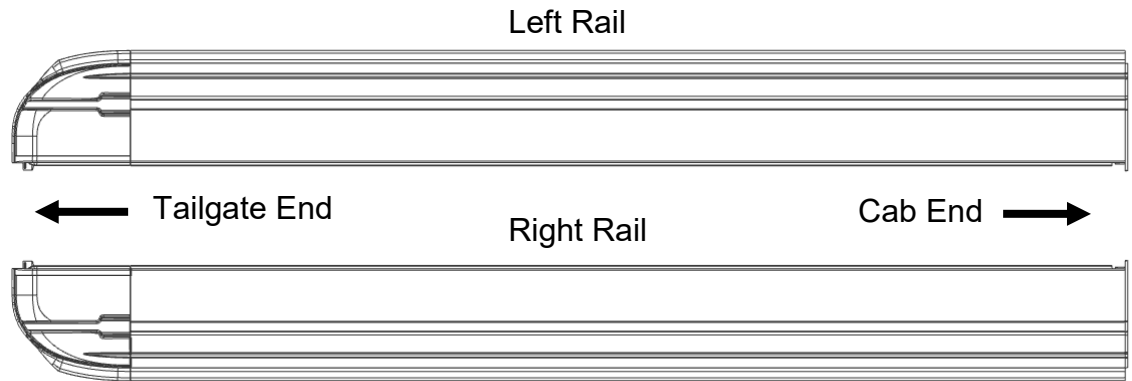


FIG. 4A

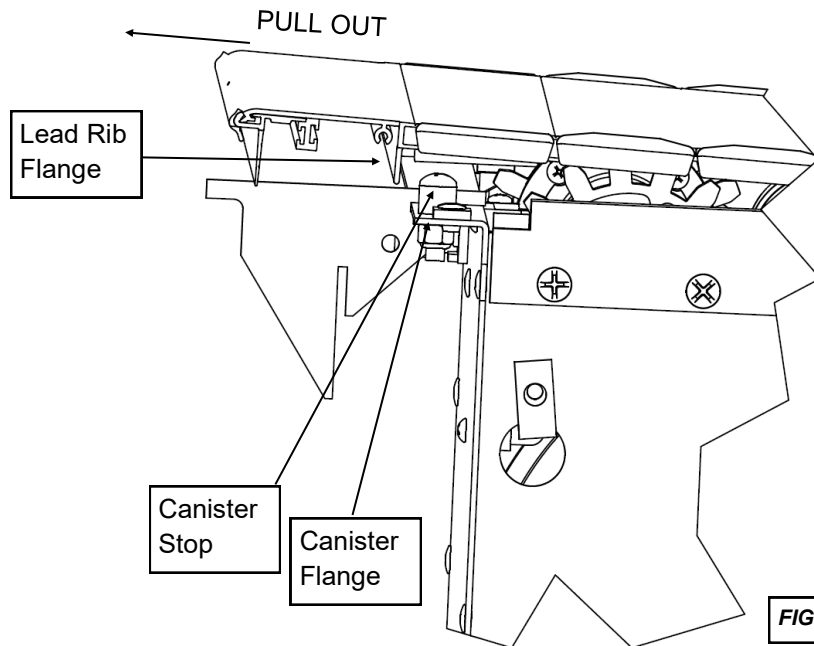


FIG. 4B

Slide along the rail grip until the rail vertical is parallel to the 2nd rib of the cover. Rotate the rail towards the canister, while keeping the outside edge of the rail locked in the outside groove making sure to not get the sweep seal folded back into the rail (FIG. 4C & 4D).

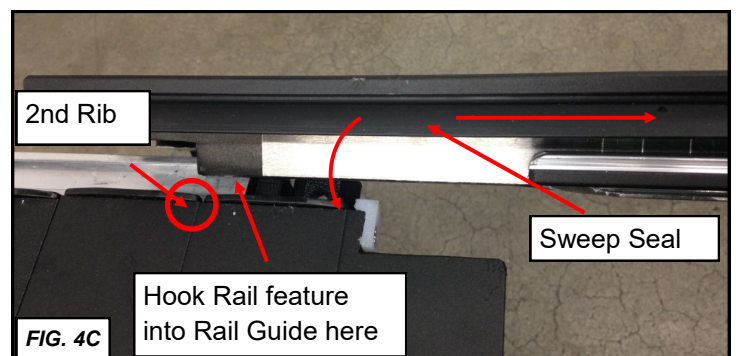
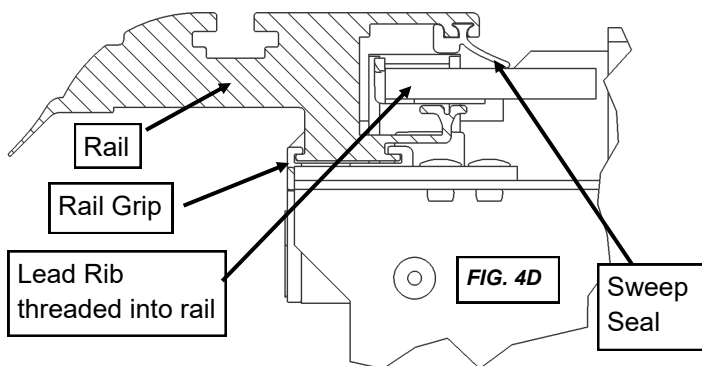
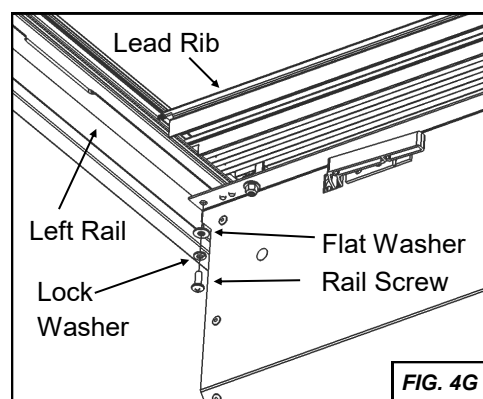
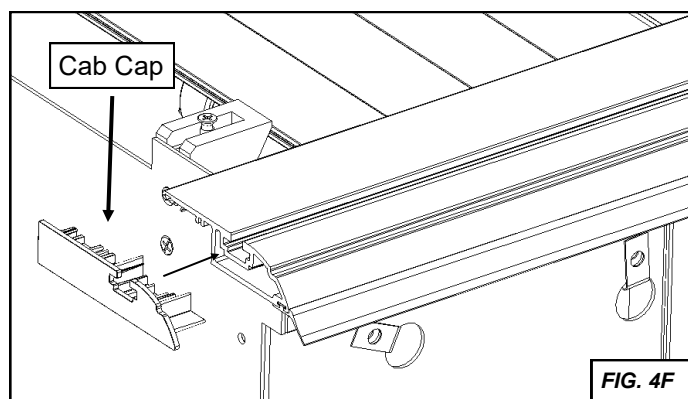


FIG. 4C

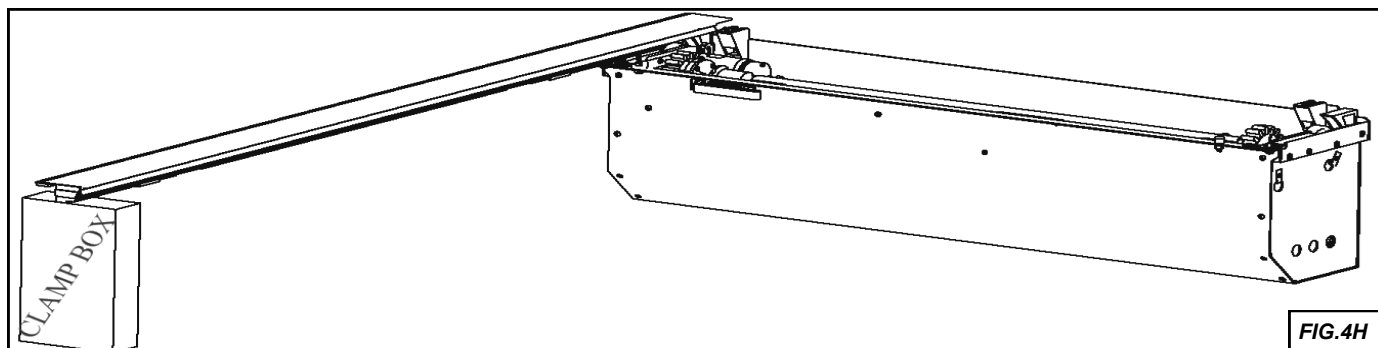


Once the rail is level with the grip, push the rail forward whilst maintaining light pressure over the rail (FIG. 4E).

Then you can thread the Lead Rib into the rail and push the rail forward to the end of the can (FIG.4E & 4F). Next push the cab caps into the front of the rails (FIG.4G). Finally thread the rail bolt with the lock washer and flat washer through the rail grip into the rail. Use a Philips #2 screwdriver to tighten (FIG.4H).



IF YOU ARE INSTALLING THE RAILS OUTSIDE THE TRUCK BED, USE THE CLAMP BOX TO SUPPORT THE FIRST RAIL TO PREVENT ANY DAMAGE TO THE RAIL. THIS WILL ALSO PREVENT THE CANISTER FROM TILTING (FIG. 4J)



The rails and canisters shown are for REFERENCE, and may not exactly match your own geometry.



DO NOT FORGET TO TAKE THE INSTALLATION TOOL OFF THE CANISTER ONCE BOTH RAILS ARE INSTALLED. THE TOOL WILL BE USED AGAIN TO ENSURE PROPER FITMENT OF YOUR TONNEAU COVER



STEP 5: INSTALLING THE TOP COVER

Remove the UV protectant sponge that is adhered to the underside of the Top Cover and set it aside for step 10. Shut the tailgate and pull the rails back until the tailgate cap seals have good engagement with your tailgate. A good way to check for proper engagement is to make sure the bottom cap and tailgate have 1/4" gap (FIG.5A).

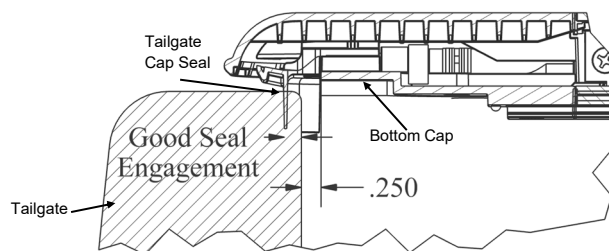
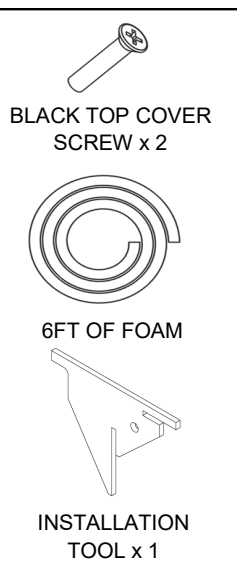


FIG. 5A

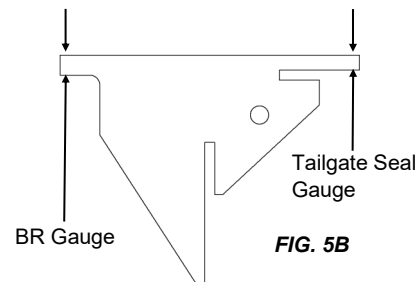


FIG. 5B

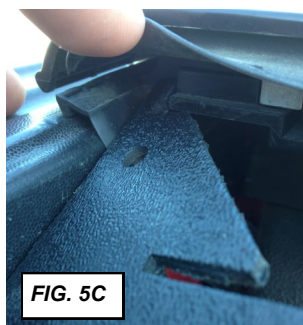


FIG. 5C

Another way to set the tailgate cap seals is to use the Tailgate Seal Gauge as shown in figure 5B & 5C. You should be able to just slide the Tailgate Seal Gauge in between the Tailgate Cap Seal and the Bottom Cap.

WARNING: Proper Tailgate Cap Seal Engagement is important for getting the best possible water resistance out of your cover!

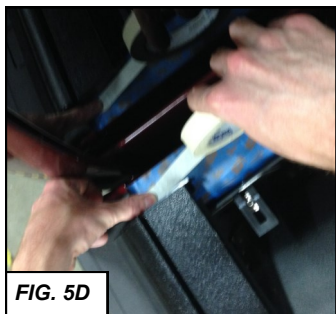


FIG. 5D

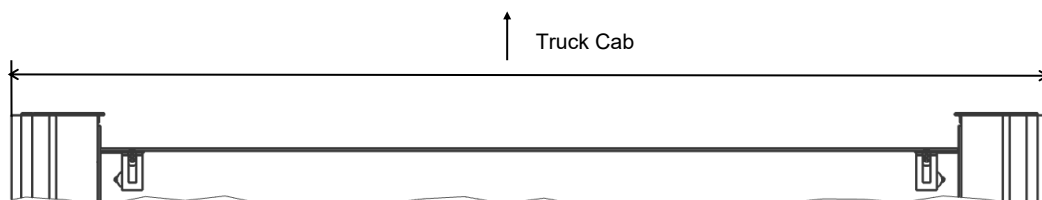


FIG. 5E

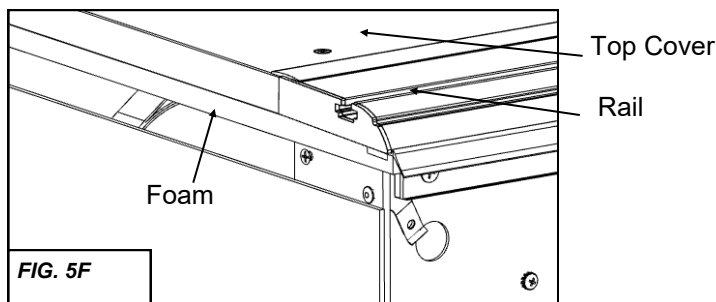


FIG. 5F

Next mark where the front of the rails sit and mark this position with masking tape, this will be a guide for placing your foam. (FIG.5D). Now pull the cover back until there is room to apply the foam. Lay the foam on the front sill of the truck from rail to rail, trimming the excess with a utility knife (FIG.5E).

Now scoot the rails and canister back on the foam and double check that your tailgate seal engagement is good. You can now install your top cover with the two Black Top Cover Screws while making sure it aligns with the front of your rails (FIG.5F).

WARNING: Proper top cover foam installation is important for getting the best possible water resistance out of your cover!

STEP 6: INSTALLING THE CLAMP EXTENSIONS

Slide the clamp extensions on the tailgate and cab end of each rail as pictured in Figure 6A-6E. Ensure that your tailgate end and cab end extensions are in the correct orientation and have the correct stick on shims. Each clamp extension is labeled for front left (FL), front right (FR), back left (BL), and back right (BR). The extensions go on the corners shown in figure 6A.

Tailgate End:

-1/8" Black Shim Shim

-Set Screw Hole Toward Tailgate

Cab End:

-1/16" White Shim

-Set Screw Hole Toward Cab

Next slide the extensions so they line up flush with the end of the clamp relief as shown in Figure 6G and tighten with a 5/32" Allen Wrench. If you have trouble sliding on the clamp extension, make sure your set screw is not sticking out the top of the clamp extension.

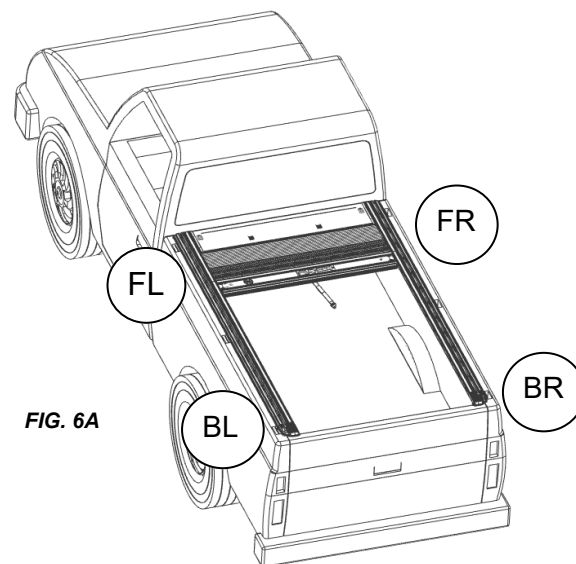


FIG. 6A

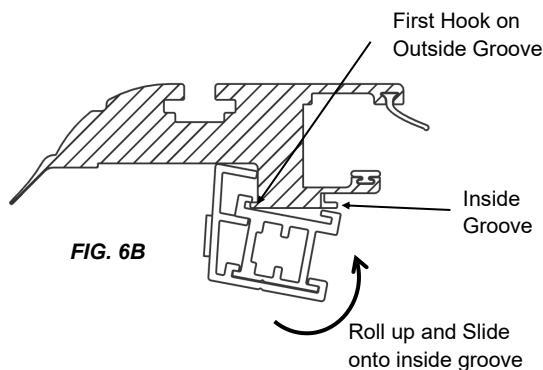


FIG. 6B

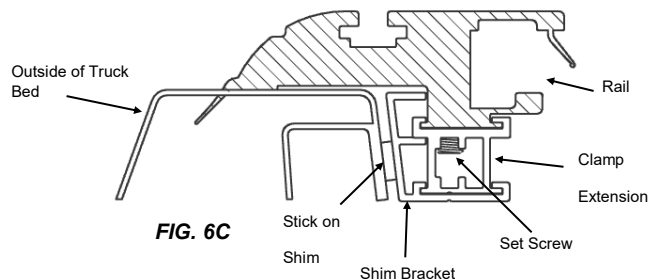


FIG. 6C

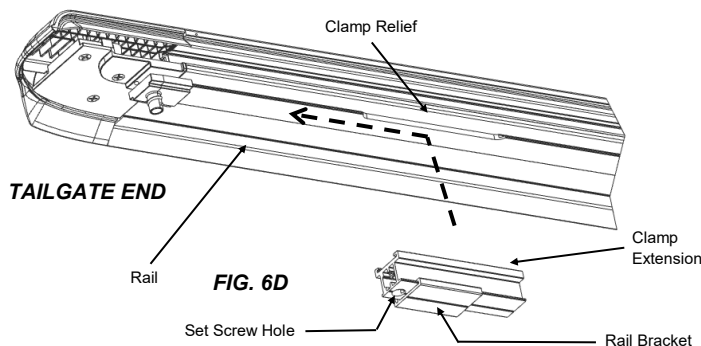


FIG. 6D

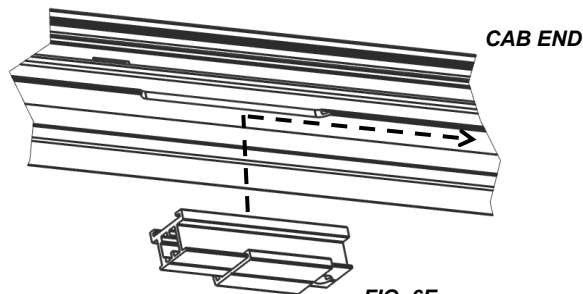


FIG. 6E

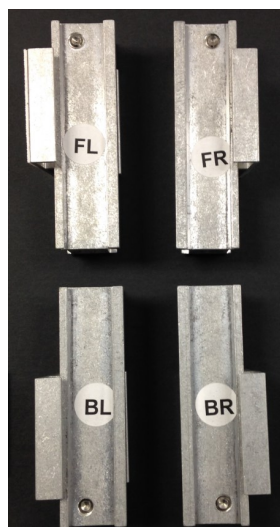


FIG. 6F

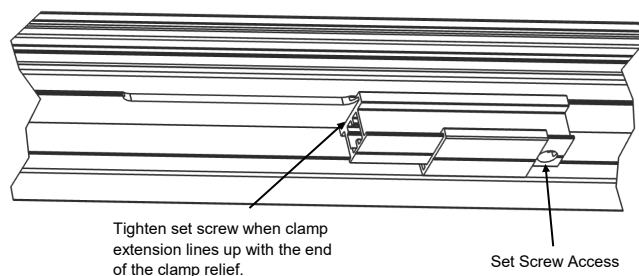


FIG. 6G

STEP 7: INSTALLING THE CLAMPS

Secure the rails to the truck bed by installing two clamp assemblies per rail. Slide the Clamp Grip onto the Clamp Extension toward the Shim Bracket and (FIG. 7A and 7B). Assemble the rest of the clamp parts as shown below (FIG. 7C & 7D). There are two CCW and two CW back plates in the kit. Rotate the back plate towards the center of the truck bed (FIG. 7D). Once the back plates are contacting the bed rails (FIG. 7C) and can no longer rotate, tighten the clamp bolts until the clamp is secure.

DO NOT FULLY TIGHTEN YET

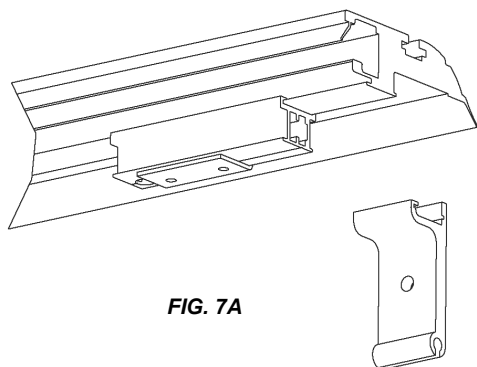


FIG. 7A

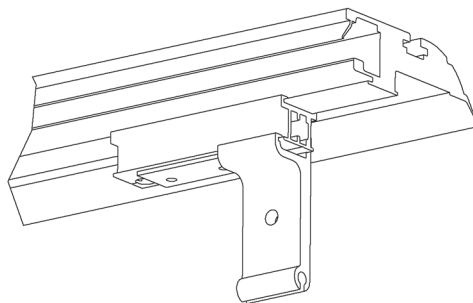


FIG. 7B

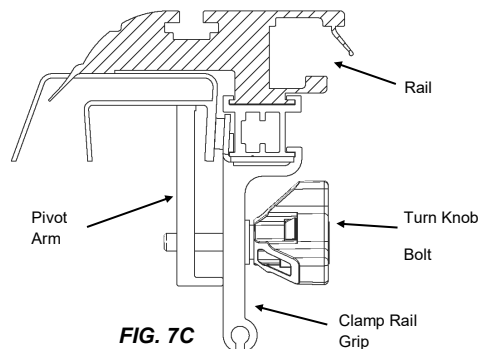


FIG. 7C

**Rotate back plates
towards center of
the truck bed**

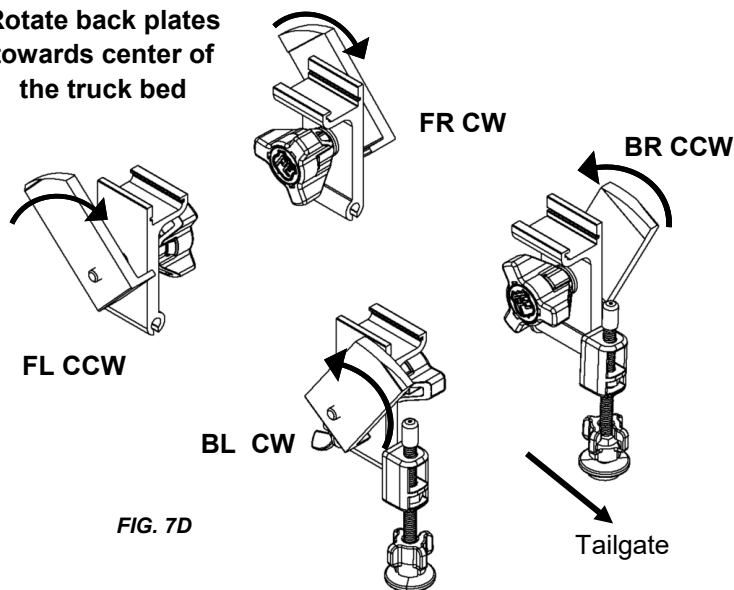


FIG. 7D

Part number is on the serial number label in the upper left corner of the canister (looking from tailgate).

PART NUMBER	BETWEEN RAILS (BR)
KE2171	58 9/16"
KE2172	58 9/16"
KE2173	58 9/16"
KE2184	48 5/16"

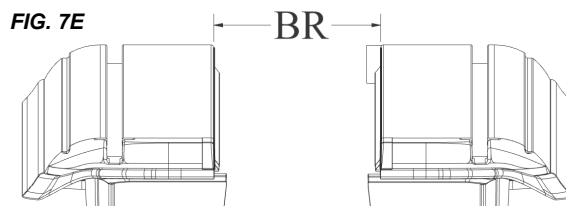


FIG. 7E

Check for proper spacing by measuring between the rails at the canister and the tailgate end of the rails (FIG. 7E). The measurement should be equal to or less than those in the table. The Rail Brackets and Shims have been pre-installed to achieve the proper Between the Rail dimensions (BR) when placed on an average factory truck bed. However, not all truck beds are average dimensionally and some have optional plastic caps or over the rail spray-in bedliners.

There are shims on the brackets that can be removed if the unit is too tight and shims in the hardware pack that can be added if too loose.

To remove the shims, take a flathead screwdriver or knife and gently pry the shim off the bracket (it is held on by a adhesive strip) if adjustment is needed.

Note: You must loosen the clamps to add/remove shims

The white shims are 1/16" and the black shims are 1/8", add or remove shims according to your own BR dimensions. Once the proper BR dimension has been achieved, tighten each clamp bolt to 70 in-lbs.

CAUTION!

Proper Between the Rails dimensions are critical to the optimal performance of your Tonneau Cover!

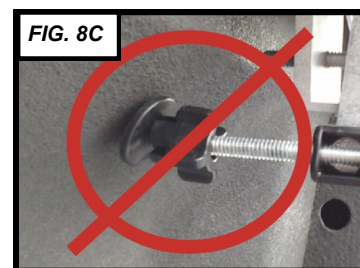
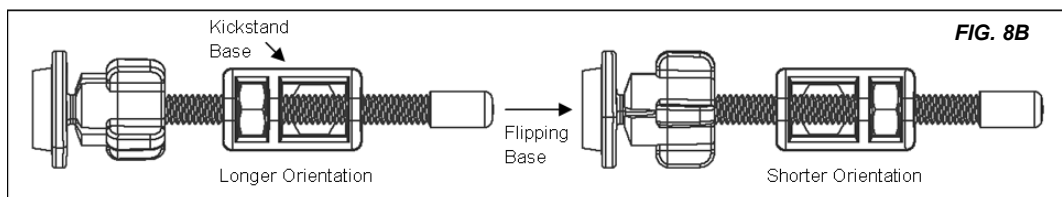
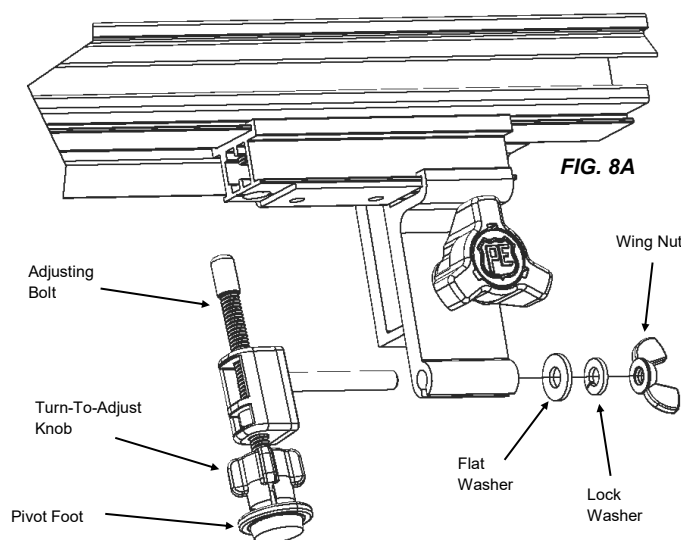
CAUTION!

STEP 8: INSTALLING KICKSTANDS

The Clamp Kickstands are not compatible with the factory Cargo Management System

Install the kickstands at the tailgate ends of the rails. Loosely fasten the kickstand assembly to the clamp grip, on the side of the grip where the pivot foot will land on the flattest section of bed wall. Rotate the assembly so that it will push as squarely as possible on the bed wall, then tighten the wing nut. If the assembly is not positioned squarely against the bed wall, the assembly will rotate out of position, or the foot or knob can dislodge when the rail is flexed or loaded (FIG. 8C).

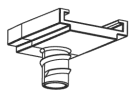
Run the adjusting bolt inward toward the bed wall, putting some pressure on the foot, then continue running the bolt inward using the knob until the rail is visually level. The adjusting bolt can be removed and the base flipped 180 degrees to adjust for varying clearance with the bed wall (FIG. 8B). Verify the BR dimension after the rails are leveled.



STEP 9: INSTALLING TAILGATE DRAINTUBES



TAILGATE DRAIN TUBES X 2



DRAIN FITTINGS X 2

FIG. 9A

To install the tailgate drain tubes you need to find suitable holes in the rear stiffener of your truck bed. Figure 9C shows possible hole locations.

Next you will screw the drain tube into the drain fitting and slide it on the tailgate cap as shown in Figure 9B. There is an interference bump on the cap that will lock the drain fitting in place. Next you will need to thread the drain tube in the desired hole and trim the length of the tube if needed. If there are no holes on the tailgate side of your truck you will need to drill holes, make sure to check for wires you could damage first (5/8" or 16mm).

WARNING: Drain tube installation is paramount to getting the best possible water resistance out of your cover!

FIG. 9B

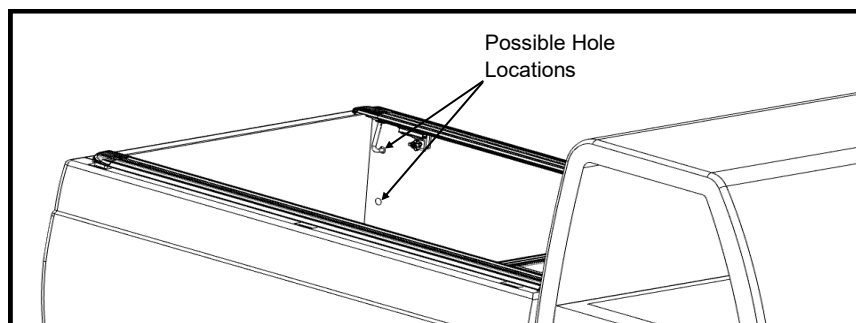
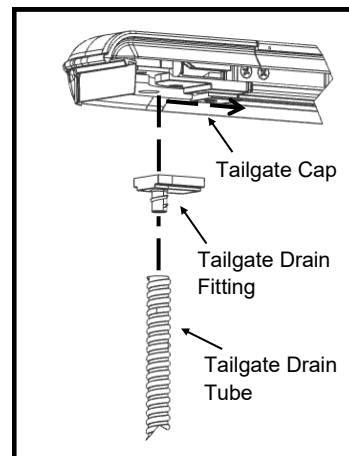


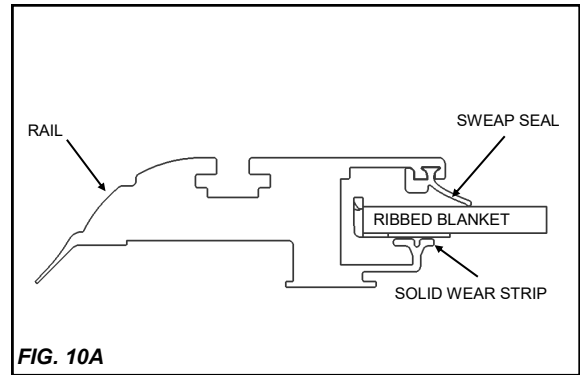
FIG. 9C

STEP 10: LUBRICATING & PLACING THE SWEEP SEALS

Locate the sweep seals (rubber weather strips) on the rails. Use the provided UV protectant to wipe the underside of the sweep seal and the top of the wear strip on each rail. The UV protectant can be found adhered to the underside of the top cover lid or in the hardware pack.

Extend the cover to the tailgate. Use an Allen Wrench if needed to carefully draw out the sweep seal (seal should be angled outwards toward the cover—not rolling in toward the bed rail). (Fig. 10A)

Proper care and placement of the sweep seal will ensure smooth operation of the cover. Alcohol, petroleum or silicone based cleaners should be avoided and **ARE NOT** recommended for our covers.



STEP 11: CONNECTING THE ELECTRONICS

HARDWARE USED:



2-BUTTON REMOTE
KEY FOB x 2

The electronics box has been pre-mounted to the inside of the canister.

Connect the battery wire harness into the 2-wire plug at the end of the canister (**also connect the optional manual switch harness, if installed at this time**)

Attach the Red (positive) and Black (negative) wires to the battery or the truck manufacturers suggested connection points at this time.

Unit is now ready to operate.

Press the Open button to open cover and press the Close button to shut the cover.

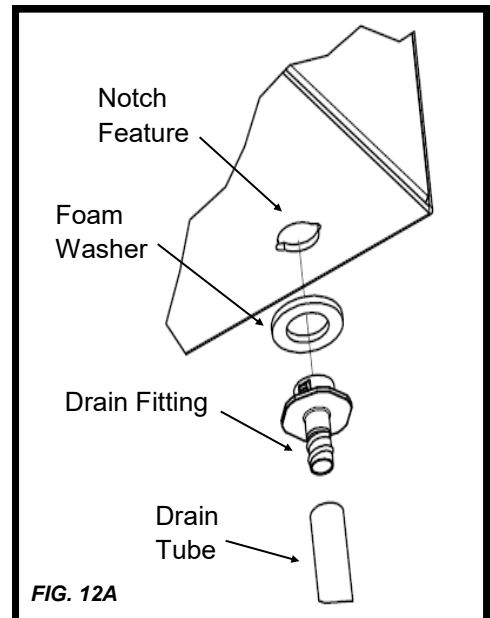
STEP 12: INSTALLING CANISTER DRAIN TUBES

First, ensure that the Foam Washer is in place on the Drain Fitting as this washer will help prevent water leakage. Next, test fit the drain tube to determine the length you want to trim it. Always caution on the long side. Trim the end that will be inserted through the truck bed using the wire cutters or a utility knife.

With the cover *opened*, insert the drain tube fittings into the pre-drilled holes on the underside of the canister by pushing them in place from under the canister. Drain Fitting should click into place.

Place the other end of the drain tube through the plastic/rubber access port or through the pre-drilled holes in the floor or the front wall of the truck bed. If routing through the front wall, ensure that the drain tubes are inserted and directed down so water flows out of the truck. (**WARNING: Use caution not to drill into wires, hoses or the cab!**)

To remove the drain tubes reach under the canister, grab the drain tube fitting and turn it while applying light downward pressure. When the retaining tabs align with notches in the bottom of the canister the Drain Tube and Fitting will drop out.



STEP 13: RELEASE HANDLE INSTRUCTIONS

If power is lost to the Ultragroove Electric unit or the electric drive system fails to operate and you have to use the cover right away you can do the following to open or close the cover:

1. You will need to gain access to the release handle located on the driver side of the canister at the front of the truck bed. Once you have access to it, Pull the handle out away from the canister and pull out the handle kickstand behind it.
2. Settle the kickstand into the notch on the handle to hold the handle in place.
3. Now you should be able to push or pull the paneled blanket manually open or closed.

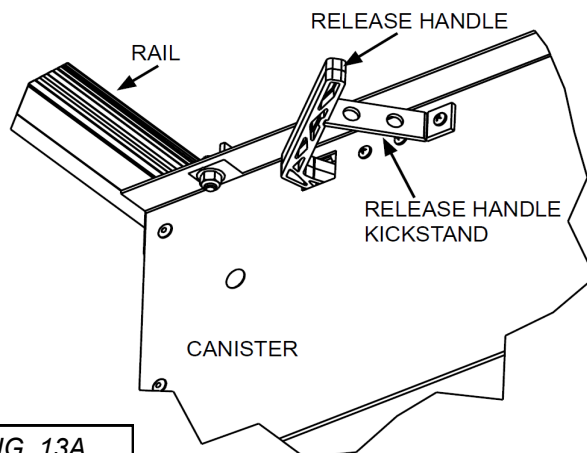


FIG. 13A

NOTE: The blanket will not lock unless you disengage the

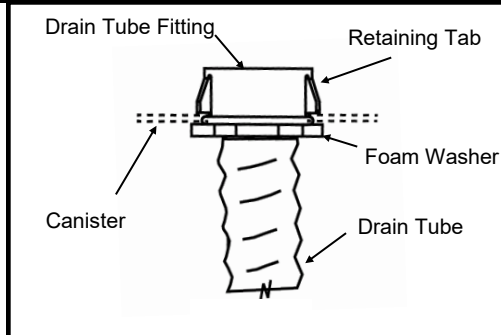
kickstand and lower the release handle. With the handle released the cover will move a short distance and the cover will then lock itself in place. (Cover may not lock tightly against tailgate) This process will allow you to use the cover until power is restored. It is not meant for extended or permanent use.

MAINTENANCE

After installation, if the cover is tight or hard to open and close, the shimming may need to be re-adjusted.

Periodically remove the Top Cover and clean out the canister.

Drain tubes may become clogged overtime and should be removed and cleaned. To remove the drain tubes reach under the canister, grab the drain tube fitting and turn it while applying light downward pressure. When the retaining tabs align with notches in the bottom of the canister the Drain Tube and Fitting will drop out.



To help keep your Ultragroove Electric Retractable Tonneau Cover looking it's best, we recommend washing it the same way you wash your truck. However you should not wax your cover.

RELEASE HANDLE ASSEMBLY MAINTENANCE

Maintenance of the Release Handle Assembly requires lubrication of the coupler located inside the canister. This is done during factory assembly but may need to be done from time to time during the life of your cover.

A small lubrication hole is provided on the coupler that a fine tipped grease gun can inject a small amount of grease into. A high quality waterproof wheel bearing grease is recommended.

To get to the coupler you will need to remove the rail clamps and end caps at the end of the rails. Use the manual release handle and **manually** pull the blanket out the end of the rails until you have access to the coupler inside the canister. Grease the coupler, cycle and spin it to distribute lubricant then reverse the process to re-assemble the cover being sure to **manually** push the cover back into place in the canister. **(DO NOT USE THE MOTOR TO RUN THE BLANKET INTO THE CANISTER OR YOU WILL DAMAGE THE RIB CAPS ON THE EDGES OF THE BLANKET.)**

ULTRAGROOVE™ METAL FULL-METAL™ JACKRABBIT® FULL-METAL JACKRABBIT MATTE ULTIMATE **LIFETIME** WARRANTY

This limited lifetime warranty covers: Failure of materials and workmanship. Warranty replacement will be issued at no cost for the life of the cover to the original owner on original vehicle – nontransferable.

- Separation of the UltraGroove Metal/Full Metal JackRabbit/Full Metal JackRabbit Matte deck panels
- All lock assemblies
- All hardware and components

ULTRAGROOVE ELECTRIC BEDLOCKER®/BEDLOCKER MATTE

For a period of seven (7) years from the date of purchase the Pace - Edwards electric retractable cover has the following limited warranty:

- Failure of materials and workmanship
- Separation of the UltraGroove Electric/BedLocker/BedLocker Matte deck panels
- Failure of the UltraGroove Electric/BedLocker/BedLocker Matte drive system and electrical components
- All hardware and components
- Warranty will be prorated after five (5) years

ULTRAGROOVE JACKRABBIT/JACKRABBIT MATTE

For a period of five (5) years from the date of purchase, the cover will have the following limited warranty:

- Delamination of the ArmorTek deck
- Failure of the Continuous Tension Spring
- All lock assemblies
- All hardware and components

SWITCHBLADE™/SWITCHBLADE METAL

For a period of two (2) years, the cover will have the following limited warranty:

- Delamination of the ArmorTek deck material
- Failure of the Continuous Tension Spring
- All hardware and components

EXCLUSIONS (ALL MODELS):

- Normal wear and tear over the life of the Pace Edwards cover (including fading or discoloration)
- Water intrusion at any location or any damage caused as a result
- Additional installed parts and accessories
- Acts of nature such as tornadoes or hurricanes, or other external causes

ITEMS WHICH WILL VOID WARRANTY:

- Use of lubrication other than prescribed in owners/ installation manual
- Misuse, negligence, or accident
- Improper installation of product
- Failure to adequately secure cargo to prevent damage to the Pace Edwards cover
- Installation of parts or accessory which may interfere with the Pace Edwards cover without written permission of Pace Edwards
- Additional installed parts and accessories
- Acts of nature such as tornadoes or hurricanes, or other external causes

CONDITIONS AND LIMITATIONS:

- Any part of the Pace Edwards retractable cover found to be defective under the terms of the warranty will be repaired or replaced, at the discretion of Pace Edwards.
- Pace Edwards will have the final decision if the part in question is defective.
- Pace Edwards has no responsibility with regards to installation by its dealers or agents.
- Pace Edwards does not, under any circumstances, assume response ability for loss of item, revenue, inconvenience, or other consequential damage including, but not limited to, expenses for telephone, food, lodging, travel, loss, or damage to the vehicle the cover is installed upon, or loss or damage to personal property of the purchaser or user of the product.
- Pace Edwards will not accept any responsibility to any purchaser for warranty expressed or implied by any of its dealers, distributors, or agents.
- Pace Edwards reserves the right to make changes in the design of, improvements to, or warranty of its products without imposing any obligation for any products manufactured.
- Under no circumstances will Pace Edwards be liable for special, indirect, incidental, or consequential damages incurred in connection with any Pace Edwards retractable cover or its accessories.

Effective February 20, 2023

WARRANTY REGISTRATION: Please return this form within 14 days of purchase to:
PACE-EDWARDS • Attn: Warranty Dept. • 2400 Commercial Blvd. • Centralia, WA 98531
OR register online at www.pace-edwards.com

Name _____

Address _____

City _____ State _____ Zip _____

Vehicle Year _____ Make _____ Model _____

Model Number _____ Serial Number _____

Email _____ Phone _____

Date of Purchase _____ Purchased From _____ Price Paid _____

Customer Signature _____