

TJ-YJ TRAILGATE INSTALLATION



Thank you for purchasing a Poison Spyder TrailGate™ for your Jeep. Installation is fairly simple with the right tools and good mechanical abilities. If you are not confident in your mechanical skills, please seek the help of a professional to perform the installation. Please read through these entire instructions before proceeding with installation.

IMPORTANT: Completely install and remove the TrailGate™ prior to painting or powder coating it. This will allow you to check for fitment or do any clearancing or fitting ahead of time, to reduce the chance of damage to the finish during final installation. Poison Spyder Customs Inc. is not responsible for costs for or damage to paint or powder coat finish under any circumstances, including paint or powder coat of incorrectly shipped or defective parts.

PARTS LIST

Please check your packages immediately upon arrival to ensure that everything listed is included, and to check for damage during shipping. If anything is missing or damaged, call Poison Spyder at (951) 849-5911 as soon as possible.

- (1) TrailGate™ Tramp Stamp™
- (1) Latch Cover Left
- (1) Latch Cover Right
- (2) Tub-Side Cable Bracket
- (2) Gate-Side Cable Bracket
- (2) Limit cable
- (2) Hinge
- (2) Lock-latch assembly
- (2) Weatherstrip
- (1) 1/4-20 nut-sert install tool
- (1) 5/16-18 nut-sert install tool
- (2) 5/16-18 X 1 SS button head cap screw
- (2) 5/16-18 nut-sert
- (12) 1/4-20 X 3/4 SS button head cap screw
- (8) 1/4-20 nut-sert
- (4) 1/4-20 nylon insert lock nut
- (4) 1/4 flat washer
- (12) 10-24 X 1 SS button head cap screw
- (12) 10-24 nylon insert lock nut
- (12) #10 flat washer
- (2) M5-.8 X 50 hex head cap screw

- (1) TrailGate™ Gate Panel

TOOLS NEEDED

- Fine-tip felt marker & measuring tape
- Mechanic's tool set including an assortment of hex keys, end wrenches, sockets and ratchet
- Drill motor with 1/4, 5/16, 25/64, 17/32 and 1/2 drill bits
- Grinder or cut-off wheel
- Thread anti-seize compound
- Touch-up paint
- Optional: Professional nut-sert install tool

NOTE: The Nut-sert installation tool provided is simple and inexpensive. It works but it can be tedious to use, especially when installing a large number of nut-serts. We highly recommend purchasing, renting, or borrowing a professional quality nut-sert installation tool, such as the "Marson Giant Thread Setter 325-RN 34604", available from www.blindrivetsupply.com.

INSTALLATION PROCEDURE

1. **Park vehicle on a level** surface and set the emergency brake. You will want to wear eye protection beyond this point in time.
2. **Remove the spare tire and stock tailgate**, if present. Fold back carpet so that it is out of the way, exposing the shetmetal of the Jeep's body tub, just inside of the tailgate on each side.
3. **Remove the OE inside latch mechanism**. Retain the two lower bolts, they will be used later.

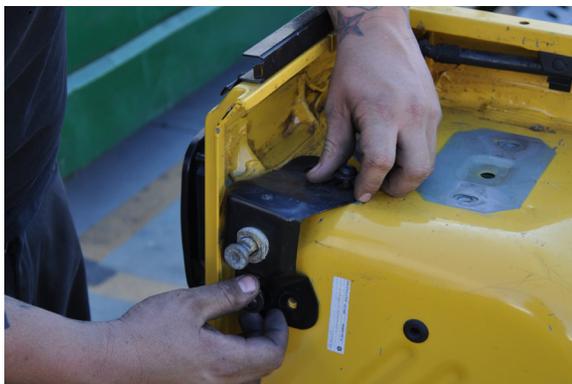


FIGURE 1

5. **Install one of the provided Tub-Side Cable Brackets** using the two lower bolt locations and OE hardware from the removal of the latch mechanism in the previous step. Make

sure the flange with the single hole is pointed upward, as shown in Figure 2.



FIGURE 2

6. **The other Tub-Side Cable Bracket** will need to be installed on the opposite (passenger side) wall of the Jeep's interior. There are no existing holes for this, so you will be installing the two supplied 5/16 nut-serts. Use a measuring tape and fine tip felt marker to measure the placement of the two existing bolt locations on the driver side, and mirror them to the passenger side. Measure the distance up from the floor, and in from the edge of the tailgate opening, for both holes. Mark or center-punch the two hole locations.
7. **Use the procedure outlined in the Nut-sert Install Tool Instructions** to install the two 5/16-18 nut-serts in the locations marked in the previous step. Use a 17/32" bit for the final hole size before installing the nut-serts.



FIGURE 3

8. **Use the provided 5/16-18 SS button head cap screws** to attach the remaining Tub-Side Cable Bracket where the nut-serts were installed in the previous step. Coat the threads of the screws with anti-sieze compound before threading them in.

9. Next, the lower portion of the TrailGate™, also known as the Tramp Stamp™, is installed. Begin by holding the Tramp Stamp™ up against the Jeep's body tub, on the horizontal surface below the tailgate opening. Visually align it so that it is centered between the edges of the tailgate opening, with the top edge of the Tramp Stamp™ flush with the bottom of the tailgate opening.



FIGURE 4

10. Use a center-punch or fine-tip felt marker to mark the two outer-most hole locations at either end of the Tramp Stamp™, then set the Tramp Stamp™ aside.
11. Use the procedure outlined in the Nut-sert Install Tool Instructions to install 1/4-20 nut-serts in the four locations marked in the previous step. Be very careful when drilling these first four holes, to make sure the bit doesn't "walk" from your mark. Use a 25/64" bit for the final hole size before installing the nut-serts. When installing these first four nut-serts, it is very important to try to keep the nut-sert from leaning away from the hole center as you crush the nut-sert into place.



FIGURE 5

12. Temporarily install the Tramp Stamp using the supplied SS button head cap screws in

the four nut-sert locations that were installed in the previous step. Make sure the Tramp Stamp™ still installs correctly aligned. If one or more of the nut-serts has "walked" off-center during installation, you may need to oblong the hole(s) slightly with a small rat-tail file. Coat the threads of the screws with anti-seize compound before threading them in.

13. Use a 1/4" drill bit to drill the remaining mounting holes, using the Tramp Stamp™ as a drill guide. Be sure to also drill the two hinge holes at either side. Remove the Tramp Stamp™.
14. In all but the hinge hole locations, drill the new 1/4" holes out to 25/64", then proceed with installing the 1/4-20 nut-serts into these holes.
15. At the 4 hinge hole locations, drill these holes out to 1/2". This will provide clearance for the nuts that holds the hinge to the Tramp Stamp™.
16. Apply some touch-up paint to the bare metal around the edges of each of the holes just drilled, to provide future protection against rust.
17. Install the two hinges into the corresponding holes along the top edge of the Tramp Stamp™, using the supplied SS button head cap screws and lock nuts.
18. Re-Install the Tramp Stamp™, using all of the provided hardware. If one or more of the nut-serts has "walked" off-center during installation, you may need to oblong the hole(s) slightly with a small rat-tail file.
19. Bolt the TrailGate™ to the hinges using the provided hardware. Take care to ensure that the TrailGate™ is properly aligned within the tailgate opening while tightening the hardware. There is a small amount of adjustment that may be made in the hinge bolts, if needed. If further adjustment is needed for proper alignment, oblong the holes slightly with a small rat-taille file.

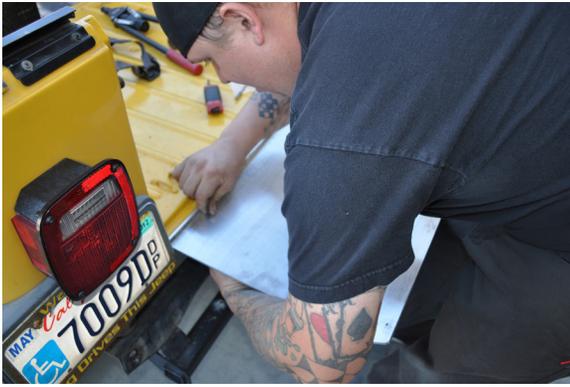


FIGURE 7

- 20. Bolt the two Gate-Side Cable Brackets to the TrailGate using the provided hardware.**



FIGURE 8

- 21. Attach the Limit Cable to the Gate-Side Cable Bracket, then to the Tub-Side Cable Bracket, as shown. Do this for both sides.**



FIGURE 9

- 22. Install the provided weatherstrips to the vertical flanges along either side of the tailgate opening. Make sure the bulb seal is oriented toward the rear, so that the TrailGate™ compresses it as it closes.**
- 23. Install the provided lock/latch mechanisms into each of the rectangular holes in the TrailGate™. Use the u-bracket provided in**

the latch kit to secure the mechanism in place. Use the provided jamb nuts and washers to orient and install the latch as shown in the photo below. Upon closing the TrailGate™, it is likely that the latch will require some adjustment. Loosen/tighten the jam nuts to move the latch in either direction, until the correct position is found. When installed,



FIGURE 10

- 24. Upon closing the TrailGate, it is likely that the latch will require some adjustment. Simple loosen/tighten the jam nuts to move the latch in or out. Adjust the latch so that the outer surface of the TrailGate™ is flush with the Jeep's tub when closed and latched.**
- 25. Use a grinder or pneumatic cut-off wheel to cut off the excess threads from the end of the latch stud. It will need to be shortened by about 1/4" for the latch to function properly after the latch cover is installed.**
- 26. Install the latch covers. Begin by removing the u-brackets that were installed in a previous step, and replace them with the latch covers using the M5-.8 X 50 hex head cap screws and #10 flat washers provided. Note that the latch covers are not identical, there is a right and left cover. Make sure the rectangular notch for the latch is oriented toward the bottom of the TrailGate™ (when gate is closed).**

WARRANTY

Poison Spyder Customs™ warranties all of the products we sell and distribute for one (1) year from the date of sale. These products will be free from defects in material and workmanship under normal installation, and use. Due to the intended use the powder coat finish is warranted for ninety (90) days. The finish warranty will not cover a product if it has been damaged in any way. Warranty is limited to repair or replacement. Poison Spyder Customs™ does not offer any type of labor or shipping allowance and all warranty claims are subject to inspection by Poison Spyder Customs™.

At the discretion of Poison Spyder Customs™, the products in question can be repaired or replaced when found defective. Prior to any replacement or repair, written authorization must be obtained from Poison Spyder Customs™. Failure to contact us prior to having warranty work preformed will immediately void all applicable warranties; and it is then the sole responsibility of the customer to remit any payment incurred.

The warranty expressed above is the sole warranty of Poison Spyder Customs™, and any other expressed or implied warranties are hereby specifically excluded and disclaimed.

HOLD HARMLESS AGREEMENT

1. In purchasing a Poison Spyder Customs Product™ I release, waive, discharge and covenant not to sue Poison Spyder Customs officers, servants, agents, or employees (hereinafter referred to as Releasees) from any and all liability, claims, demands, actions and causes of action whatsoever arising out of or related to any loss, damage, or injury, including death, that may be sustained by me (or anyone else), any property belonging to me (or anyone else), whether caused by the negligence of the releasees or otherwise, while working on, using or any activity related to this product.
2. I am fully aware of risks and hazards connected with the use of a this product and I elect to voluntarily engage in such use of this product knowing that the use may be hazardous to me and my property. I voluntarily assume full responsibility for any risks of loss, property damage or personal injury, including death,

that may be sustained by me (or anyone else), or any loss or damage to property owned by me (or anyone else), as a result of using this product, whether caused by the negligence of releasees or otherwise.

3. I further agree to indemnify and hold harmless the releasees from any loss, liability, damage or costs, including court cost and attorney fees, that they may incur due to my use of a this product, whether caused by negligence of releasees or otherwise.
4. It is my express intent that this Release and Hold Harmless Agreement shall bind the members of my family and spouse, if I am alive, and my heirs assigns and personal representative, if I am deceased, and shall be deemed as a release, waiver, discharge, and covenant not to sue the above named releasees. I further agree that this Waiver of Liability and Hold Harmless Agreement shall be construed in accordance with the laws of the State of California.

By accepting this product, I acknowledge and represent that I have read the above Waiver and Liability and Hold Harmless Agreement, understand it and accept it voluntarily as my own free act and deed; no oral presentations, statements, or inducements, apart from the foregoing written agreement, have been made; I am at least eighteen (18) years of age and fully competent; and I execute this Release for full, adequate and complete consideration fully intending to be bound by same.

If you do not agree with the preceding Hold Harmless Agreement, you may return the product and receive a full refund. Please, contact a Poison Spyder Customs™ sales representative and they will issue a call tag for the product in question. Once the product has been received by Poison Spyder Customs™ a full refund will be issued.

INSTALLATION INSTRUCTIONS