



TJ - YJ TrailGate™

IMPORTANT: Thank you for purchasing this Poison Spyder product. Please read through this entire document before proceeding with installation. If you are not confident in your mechanical skills, please seek the help of a professional to perform the installation. 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, or if you need technical assistance with any aspect of this installation, call Poison Spyder at (951) 849-5911 as soon as possible. This document last updated January 2016.

APPLICATIONS

These installation instructions apply to the following Poison Spyder products:



- 14-66-010** TJ TrailGate™
- 13-66-010** YJ TrailGate™

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™ Gate Panel
- (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
- (1) 5/8" X 2.67 ft. Adhesive Back foam Rubber Bulb Seal
- (2) Trail Gate Hinge Spacer
- (1) TJ TrailGate™ Hardware Kit
PN: 14-66-010 includes:

- (2) 5/16-18 X 1 SS Button Head Cap Screw
- (2) 5/16-18 Nut-Sert
- (1) 5/16" Nut-Sert Install Tool - includes:
 - (1) 5/16-18 X 2 Gr5 Hex Head Cap Screw
 - (2) 5/16" SAE Hardened Flat Washer
 - (1) 3/8-16 X 1-1/8 Coupling Nut
 - (1) 5/16-18 Nut-Sert
- (12) 1/4-20 X 3/4 SS Button Head Cap Screw
- (8) 1/4-20 Nut-Sert
- (1) 1/4" Nut-Sert Install Tool - includes:
 - (1) 1/4-20 X 2 Gr8 Hex Head Cap Screw
 - (2) 1/4" SAE Hardened Flat Washer
 - (1) 3/8-16 X 1-1/8 Coupling Nut
 - (1) 1/4-20 Nut-Sert
- (4) 1/4-20 Nylon Insert Lock Nut
- (4) 1/4" SAE Hardened Flat Washer
- (12) #10-24 X 1 SS Button Head Cap Screw
- (12) #10-24 SS Nylon Insert Lock Nut
- (12) #10 SS Flat Washer
- (2) M5-0.8 X 50mm Hex Head Cap Screw
- (2) M5-0.8 Jam Nut

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 Nut-Sert Installation Tool. These are available from various online tool dealers, or through Poison Spyder (PN: 70-TS-325-RN)

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.

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 sheetmetal 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.



- 4. 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.



- 5. 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.

- 6. 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.



- 7. 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.
- 8. 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.



- 9. 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.
- 10. 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.



11. Temporarily install the Tramp Stamp using the supplied SS button head cap screws in the four nut-sets locations that were installed in the previous step. Make sure the Tramp Stamp™ still installs correctly aligned. If one or more of the nut-sets 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-sieze compound before threading them in.

12. 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™.

13. 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-sets into these holes.

14. 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™.

15. 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.

16. 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.

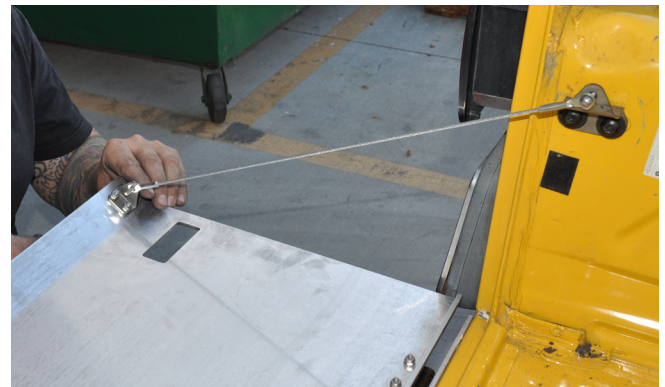
17. Re-Install the Tramp Stamp™, using all of the provided hardware. If one or more of the nut-sets has “walked” off-center during installation, you may need to oblong the hole(s) slightly with a small rat-tail file.

18. 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-tail file. *OPTIONAL: The supplied TrailGate Hinge Spacers may be installed between the hinge and the TrailGate, to more closely align the outer surface of the TrailGate with the Jeep’s body tub surface if Crusher Corners or Trail Corners are not installed.*

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



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



21. 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.

22. 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.



- 23. 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.
- 24. 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.
- 25. 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).