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JEEP JK LED TAIL-LIGHT CONVERSION KIT



Thank you for purchasing the **PANDEMIC LED TAIL-LIGHT CONVERSION KIT** for your Jeep JK. 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.

PARTS LIST

Please check over your kit upon arrival to ensure that everything listed below has arrived, and to check for damage during shipping. If anything is missing or damaged please call **PANDEMIC at 888.411.8493**.

(2) 16 Gauge precision cut & formed cold rolled steel conversion plates

(12) Stainless steel button head bolts & nylock nuts

(2) DOT approved 4" round flush mount LED Lights w/ pig tails

(2) ULTRA bright white 7/8" diameter backup lights

TOOLS NEEDED

- 17/64" drill bit
- Phillips head screwdriver
- Small flat head screwdriver
- C-clamps
- Measuring tape
- Drill
- Fine tip felt market
- Touch-up paint or clear coat
- 7/16" open end wrench
- 5/32" Hex key or driver bit & ratchet
- Angle grinder or cutoff wheel attachment to die grinder
- Masking tape
- Wire cutters
- Wire crimpers
- 12v Test light

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- Butt connectors

INSTALLATION PROCEDURE

1. Park vehicle and set the emergency brake.
2. Begin with the driver's side conversion plate installation. The procedure for both sides is mostly identical.
3. Remove the taillight lens and housing with a Phillips head screwdriver. Once the screws are removed, you can gently pry the housing away from the body. Use a small flat screwdriver or pick to release the tabs on the electrical connectors to disconnect the taillight assembly.
4. Observe the Jeep's body sheet metal around the taillight opening. Notice the two raised areas in the upper right and lower right corners where the OEM screws hold the original light housing (driver's side taillight, opposite for the passenger side). The raised areas & the indented flange section between them along the right vertical edge of the opening will have to be removed for proper fitment of the conversion plates and clearance for the LED taillights. Use a fine-tip felt marker to outline the area to be removed, as shown in **Figure 1**.

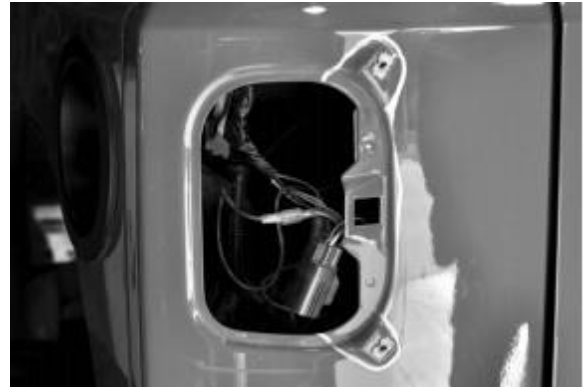


FIGURE 1

Important Safety Note: You should only continue after putting on eye & ear protection.

5. Use the tools of your choice to cut the body sheet metal along your cut mark. Note that part of the cut goes through double thick sheet metal and may be difficult to get through. Take special care to only cut the raised portion of the sheet metal. If you cut too much the plate may not completely cover the entire hole. The cut should look similar to **Figure 2** when you are finished.

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FIGURE 2

6. Use a small round file & a sanding disc to smooth around the edges of the freshly cut sheet metal. It is important to remove any burrs or sharp edges which may snag, fray or cut electrical wires over time. Use some touch-up paint or clear-coat to seal the bare metal around the edge of the cut & to protect it from rust in the future.

7. Place the driver's side conversion plate over the newly shaped opening on the Jeep. Use a measuring tape to ensure that the distance between the top edge of the plate and the top edge of the Jeep's tub is the same and securely clamp the plate into place as shown in **Figure 3**.



FIGURE 3

It is extremely important to ensure that the conversion plate is securely clamped into place. This will prevent the piece from shifting once you begin drilling. It will be necessary to place something in between the clamp and the plate to keep from damaging the finish on the plate. This will ultimately depend on the type of clamp you use.

8. Once you are satisfied with the location of the plate you can mark the center of each mounting hole. Now you can remove the plate and set it aside. Now you can use the 17/64" drill bit and drill through the Jeep's outer sheet metal at each of the previously marked hole locations. Be careful when drilling, as the thin sheet metal may want to catch on the bit and deform it.

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9. Use a flat screwdriver to gently pry the top plastic cover from the body side of the tailgate hinge. Reinstall it after the passenger plate is mounted. **Note:** Depending where you mount the plates it may be necessary to lightly sand the backside of the plastic cover if it overlaps the conversion plate.

10. Repeat Steps 3 through 8 for the passenger side.

LED TAIL LIGHT INSTALLATION

1. Disconnect the battery.

2. Pull the factory wiring harness tail light plug through the 4" LED hole to have room to work.

3. Cut the factory tail light plug from the stock tail light pigtail (between the plug and the tail light). You will re-use the tail light side of this plug. Leave as much wire as possible.

4. Refer to a service manual and the backside of the LED light to make the correct connections between the cut wires from the factory tail light plug, and the black, white & red wires on the supplied 4" LED pigtail harness. Finally connect the power and ground for the 7/8" BACKUP LED, but only after you have installed it into the plate. Whether you solder or crimp-connect, we recommend using heat shrink tubing on all connections. Once the necessary electrical connections have been made, plug the OEM pigtail plug (now with the LED pigtail attached) back into plug in the Jeep's chassis harness. Now plug the harness pigtail into the LED light.

5. Reconnect the battery at this time.

6. Check the operation by switching on turn signals, tail lights & brakes. If you have not installed LED load resistors in line with the LED wiring, the turn signal flash speed may faster than normal. You can check the operation of the backup lights by placing the Jeep in reverse with the key in the "on" position. If any light is not working properly, use a test light to check continuity at each of the connections you made, and redo as needed.

7. Secure any slack in the wiring harness with zip ties, split-loom, etc.

8. Install the LED light by slipping it into the rubber grommet and pushing it into the hole.

Congratulations, you have completed the installation of your PANDEMIC LED Light Conversion Kit!

HELPFUL TIPS AND TRICKS

1. Kit now includes (1) spare nylock nut
2. Kit now includes (1) 1 ¼" stainless steel button head bolt for the driver side lower right bolt location. **(See Note #1)**

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NOTE #1 : Use of this bolt is optional as it is better to use the smaller $\frac{3}{4}$ " bolt so that the body does not get pulled inwards towards the stronger inner section of metal, caused by over tightening.

LOAD RESISTOR INSTALLATION

1. Load resistors get **VERY HOT**. It is extremely important to mount the resistor to a metal surface away from any sensitive wires, etc. (**See Note #1**)
2. Load resistor's get wired (**RED = TURN LEAD**) & (**BLACK = GROUND**)

NOTE #1: UNDER NO CIRCUMSTANCES SHOULD YOU ZIP TIE OR TAPE THE RESISTOR TO ANY WIRING AS IT **WILL MELT** THE WIRING. (**See Figure 1**)

Figure 1



Wiring Procedure

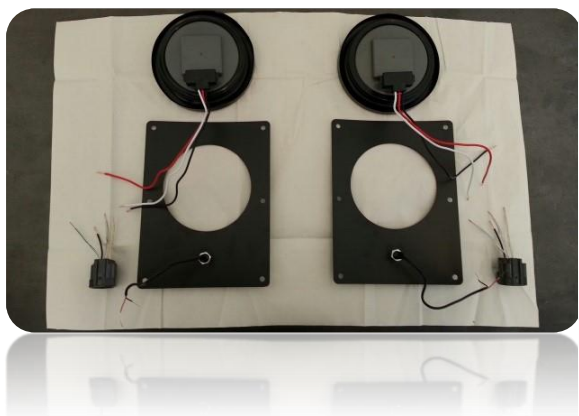
1. Remove OEM plug from chassis harness.
2. Cut wires all wires at approximately 4" of length.
3. Now you will have 4 wires remaining, discard the remaining wires that are not attached to the stock OEM plug. (**See Figure #1**)
4. Now you will need to strip, connect & crimp butt connectors to each wire.
5. See list below for color coding. **NOTE:** If your OEM plug wires differ in colors you will need use a test light to determine your wiring.

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OEM Plug	4" LED Harness (PT) & Reverse LED (RL)
Black - Ground	White (PT) – Black (RL)
White/Violet - Tail	Black (PT)
White/Yellow – Stop & Turn	Red (PT)
White/Green - Reverse	Red (RL)

Figure 1



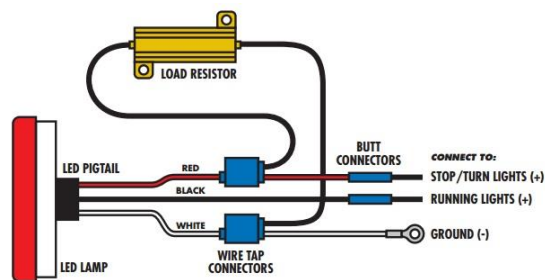
NOTE #1: DO NOT USE A HAMMER OF ANY TYPE TO INSTALL THE LIGHTS!!



Helpful Light Install Tips

It is necessary for the lights to fit tight into the plates to keep them in place due to the radius of the JK corners.

1. The Grommet gets installed into the plate first.
2. Use "Dawn" dish soap or equivalent and lube up the grommet
3. Evenly apply pressure to the light near the edges to prevent cracking of the lenses. **(See Note #1)**
4. Once the lights are installed you can rinse the lights off to remove any soap that remains.



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WARRANTY

PANDEMIC warrants this product for a period of no more than 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 installation nature the finish warranty will not be covered if it has been damaged in any way. Warranty is limited to repair or replacement. PANDEMIC does not offer any type of labor or shipping allowance and all warranty claims are subject to inspection by PANDEMIC. At the discretion of PANDEMIC, the products in question can be repaired or replaced when found defective. Prior to any replacement or repair, written authorization must be obtained from PANDEMIC

Failure to contact us prior to having warranty work performed 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 PANDEMIC, and any other expressed or implied warranties are hereby specifically excluded and disclaimed.

HOLD HARMLESS AGREEMENT

1. In purchasing a PANDEMIC Product I release, waive, discharge and covenant not to sue PANDEMIC 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 heir's 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 Washington.

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

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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 PANDEMIC sales representative and they will issue a call tag for the product in question. Once the product has been received by PANDEMIC a full refund will be issued. ©