



Installation and Operation Instructions

Citadel EZ Mount^{PATENT PENDING} LED Lighting System for 2013+ Ford Police Interceptor Utility Vehicles

The Citadel™ lighting system is a sleek way to add lighting to the back of a vehicle. The Citadel EZ Mount installation system is easy to install and requires no drilling of holes and no need to remove the back spoiler for the Ford Police Interceptor Utility (PIU) vehicle. The Citadel EZ Mount system utilizes strong 3M™ VHB™ tape for easy mounting that requires less than 30 minutes for install. The Citadel EZ Mount is designed with six Mega Thin™ or XTP lightheads. The Citadel EZ Mount system is compatible with Ford PIU model years 2013 and newer.



IMPORTANT! Read all instructions before installing and using. Installer: This manual must be delivered to the end user.



WARNING!

Failure to install or use this product according to manufacturer's recommendations may result in property damage, serious injury, and/or death to those you are seeking to protect!



Do not install and/or operate this safety product unless you have read and understand the safety information contained in this manual.

1. Proper installation combined with operator training in the use, care, and maintenance of emergency warning devices are essential to ensure the safety of emergency personnel and the public.
2. Emergency warning devices often require high electrical voltages and/or currents. Exercise caution when working with live electrical connections.
3. This product must be properly grounded. Inadequate grounding and/or shorting of electrical connections can cause high current arcing, which can cause personal injury and/or severe vehicle damage, including fire.
4. Proper placement and installation is vital to the performance of this warning device. Install this product so that output performance of the system is maximized and the controls are placed within convenient reach of the operator so that s/he can operate the system without losing eye contact with the roadway.
5. It is the responsibility of the vehicle operator to ensure daily that all features of this product work correctly. In use, the vehicle operator should ensure the projection of the warning signal is not blocked by vehicle components (i.e., open trunks or compartment doors), people, vehicles or other obstructions.
6. The use of this or any other warning device does not ensure all drivers can or will observe or react to an emergency warning signal. Never take the right-of-way for granted. It is your responsibility to be sure you can proceed safely before entering an intersection, drive against traffic, respond at a high rate of speed, or walk on or around traffic lanes.
7. This equipment is intended for use by authorized personnel only. The user is responsible for understanding and obeying all laws regarding emergency warning devices. Therefore, the user should check all applicable city, state, and federal laws and regulations. The manufacturer assumes no liability for any loss resulting from the use of this warning device.

Citadel EZ Mount Kit Components:

| Qty. | Description | Part No. |
|------|--|-----------------|
| 1 | Passenger side housing and light head assembly | Contact Factory |
| 1 | Driver side housing and light head assembly | Contact Factory |
| 1 | Installation manual | 920-0693-00 |
| 1 | Adhesive tube | 998-0348-00 |
| 2 | Alcohol prep pad | 998-0262-00 |
| 2 | Tape primer ampule | T52206 |

For CELS and Multi-color Applications

| Qty. | Description | Part No. |
|------|--|-------------|
| 1 | Main cable (20') for CELS and MC version | 690-0766-00 |

Citadel EZ Mount Kit Installation:

Step-1. Remove the Citadel EZ Mount components from their packaging and check that all components listed above are present and undamaged. Contact the factory if there is a problem.

Step-2. With the lift gate closed, clean the rear window with detergent and water. Then prepare the glass surface area directly behind the housings by wiping with isopropyl (rubbing) alcohol pads. Then coat the area with tape primer and allow the primer to dry thoroughly. Both are included with the installation kit. The vehicles's surface temperature should be at least 50°F but 70°F is preferred. Remove the outer protective paper (shown in Figure 1) covering the VHB tape and position the housing under the spoiler as shown in Figure 2. **Do this carefully, once contact is made, readjustment may not be possible.** Make sure to align the curved edge of the housing to the mating curved edge of the spoiler next to the center mounted brake light as shown in Figure 3. **Do not lift or displace the spoiler when installing the housing.** There should be a slight gap between the housing and the spoiler with the spoiler remaining in its original position when the installation is complete. Do this for both housings being sure the harnesses remain located in their respective notches at the end of the housings as shown in Figure 4. Apply heavy pressure at each end of the housing and then at the center when installing. Hold the pressure for 10-15 seconds to assure the VHB tape has achieved full adhesion to the glass surface.



Figure 1



Figure 2

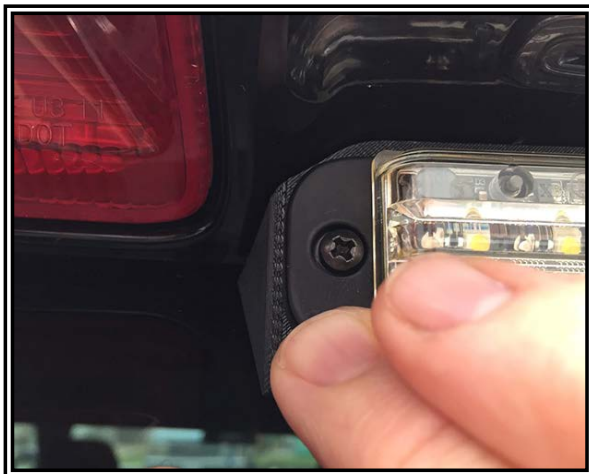


Figure 3



Figure 4

Step-3. Raise the lift gate and remove the grommet near the door hinge on both sides of the vehicle as shown in Figures 5 through 9. Carefully pull back the lift gate water seal rubber extrusion to expose the edge of the headliner. Pull down the edge of the headliner to expose the areas adjacent to the grommet holes, and loosen the corner trim molding to get more access to the corner area above the headliner.



Figure 5

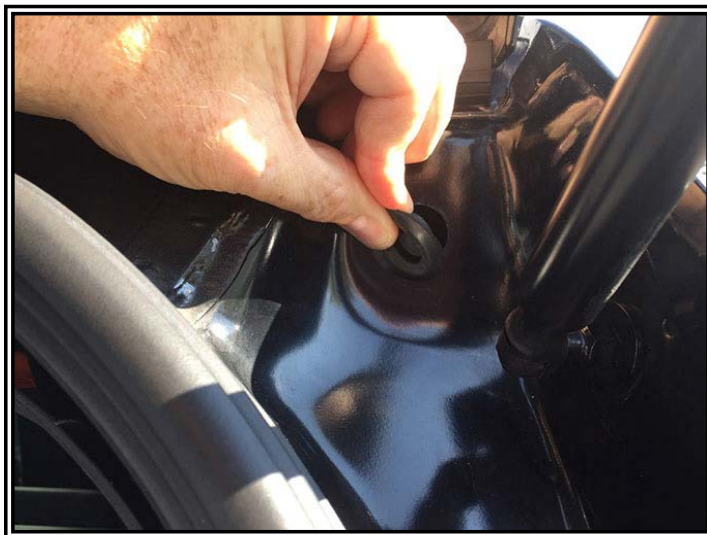


Figure 6



Figure 7



Figure 8



Figure 9

Step-4. Route each harness around the edge of the spoiler as shown in Figures 10 through 16 and feed the harness end through the grommet hole. Do this while guiding the harness end along the edge of the headliner to the area near the center of the vehicle.



Figure 10

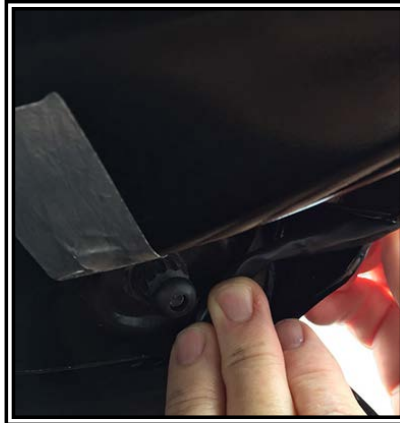


Figure 11

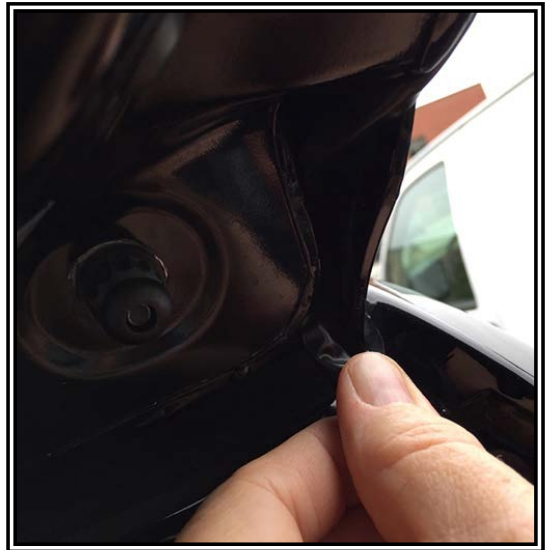


Figure 12

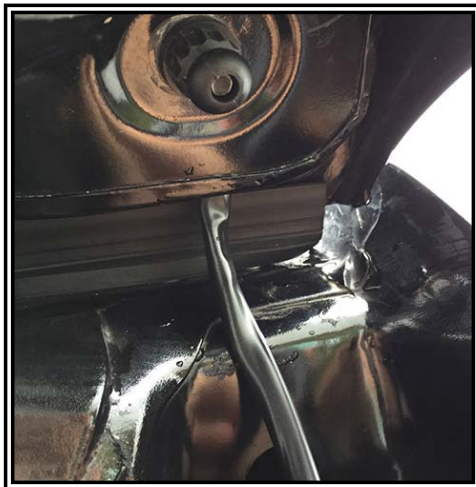


Figure 13



Figure 14



Figure 15



Figure 16

Step-5. Apply adhesive supplied with the retrofit kit to the outer edges of the harness grommets. Install and fully seat the harness grommets in their respective holes as shown in figures 17 through 19.



Figure 17



Figure 18



Figure 19

Step-6. Install the center “Y” harness cable in the headliner area and run the cable to the front of the vehicle for connection to +12 volt power and ground. Snap together the connectors on the ends of the driver and passenger harnesses to the “Y” harness connectors as shown in Figure 20 to complete the power connections as shown in Figure 21. For the independent flashing version, the driver side and passenger side harnesses are connected by quick slide terminals instead of connectors. No “Y” harness is needed and the remaining ends of the harness assembly are terminated to the customer supplied power cable using butt splices as shown in Figure 22 and 23.



Figure 20

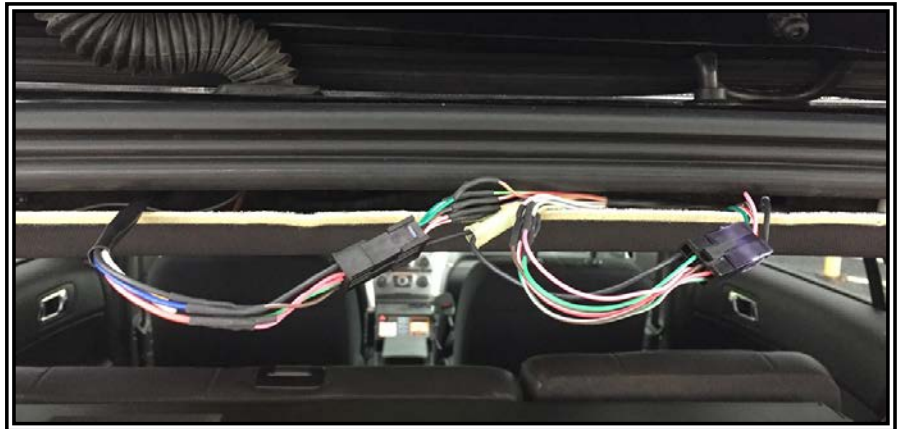


Figure 21



Figure 22



Figure 23

Step-7. Connect the +12v power to the Citadel EZ Mount power cable and test the lighting patterns. Refer to the CELS installation manuals for specific wiring instructions and control functions based on the product version purchased.

CAUTION: The light heads in the CELS version of the Citadel EZ Mount are all STEADY BURN ONLY and require the CELS controller for power, lighting sequence, and flash patterns.

Step-8. Tuck the wiring inside the headliner area and push the headliner back up into position being sure the retaining magnets make full contact. Push the corner trim molding back into position and reinstall the rubber extrusion gasket back over the edge of the headliner. Close the lift gate to check for any interference that may be caused by the wiring, gaskets, or trim molding not being fully reinstalled

Troubleshooting:

All Citadel EZ Mount Products are thoroughly tested prior to shipment. However, should you encounter a problem during installation or during the life of the product, please follow the suggestions below. Additional information may be obtained from the factory technical help line at 314-996-2800.

1. Lights do not operate:
 - a. Be sure +12v power or the CELS controller is reconnected to the cable.
 - b. Check the cable butt splice connections for continuity. (For the independent flashing version)
2. Lights do not flash in the pattern intended:
 - a. Check the cable butt splice connections for correct wire color to wire color splice. (For the independent flashing version)



WARNING!

Do not apply 12 volts directly to the Citadel EZ Mount wires after it is connected to the CELS central control box. If the Citadel EZ Mount is a component of the CELS system, the central control board or the light heads could be damaged by applying 12 volts to the central control outputs.



WARNING!

This product contains high intensity LED devices. To prevent eye damage, DO NOT stare into light beam at close range.

Note: In the event you should ever need to remove a light head, always reuse the Citadel EZ Mount factory provided #8 Phil Pan Head HI/Low fasteners. Use caution when tightening the fasteners to a maximum of 0.6Nm or 5-6 in lbs of torque. Never use a power screwdriver when installing the fasteners to ensure they are not overtightened.

NOTES:

Manufacturer Limited Warranty Policy:

Manufacturer warrants that on the date of purchase this product will conform to Manufacturer's specifications for this product (which are available from the Manufacturer upon request). This Limited Warranty extends for Sixty (60) months from the date of purchase.

DAMAGE TO PARTS OR PRODUCTS RESULTING FROM TAMPERING, ACCIDENT, ABUSE, MISUSE, NEGLIGENCE, UNAPPROVED MODIFICATIONS, FIRE OR OTHER HAZARD; IMPROPER INSTALLATION OR OPERATION; OR NOT BEING MAINTAINED IN ACCORDANCE WITH THE MAINTENANCE PROCEDURES SET FORTH IN MANUFACTURER'S INSTALLATION AND OPERATING INSTRUCTIONS Voids THIS LIMITED WARRANTY.

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MANUFACTURER MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED. THE IMPLIED WARRANTIES FOR MERCHANTABILITY, QUALITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ARISING FROM A COURSE OF DEALING, USAGE OR TRADE PRACTICE ARE HEREBY EXCLUDED AND SHALL NOT APPLY TO THE PRODUCT AND ARE HEREBY DISCLAIMED, EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW. ORAL STATEMENTS OR REPRESENTATIONS ABOUT THE PRODUCT DO NOT CONSTITUTE WARRANTIES.

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This Limited Warranty defines specific legal rights. You may have other legal rights which vary from jurisdiction to jurisdiction. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages.

Product Returns:

If a product must be returned for repair or replacement*, please contact our factory to obtain a Return Goods Authorization Number (RGA number) before you ship the product to Code 3®, Inc. Write the RGA number clearly on the package near the mailing label. Be sure you use sufficient packing materials to avoid damage to the product being returned while in transit.

*Code 3®, Inc. reserves the right to repair or replace at its discretion. Code 3®, Inc. assumes no responsibility or liability for expenses incurred for the removal and /or reinstallation of products requiring service and/or repair.; nor for the packaging, handling, and shipping; nor for the handling of products returned to sender after the service has been rendered.



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