

# INSTALLATION MANUAL

## CITADEL

### CHEVY TAHOE



A  
COMPONENT  
OF THE

# CELS

Coordinated Emergency  
Lighting System™

**CODE 3**<sup>®</sup>  
A PUBLIC SAFETY EQUIPMENT COMPANY

For future reference record your product's serial no. here \_\_\_\_\_

**IMPORTANT:** Read all instructions and warnings before installing and using.  
**INSTALLER:** This manual must be delivered to the end user of this equipment.

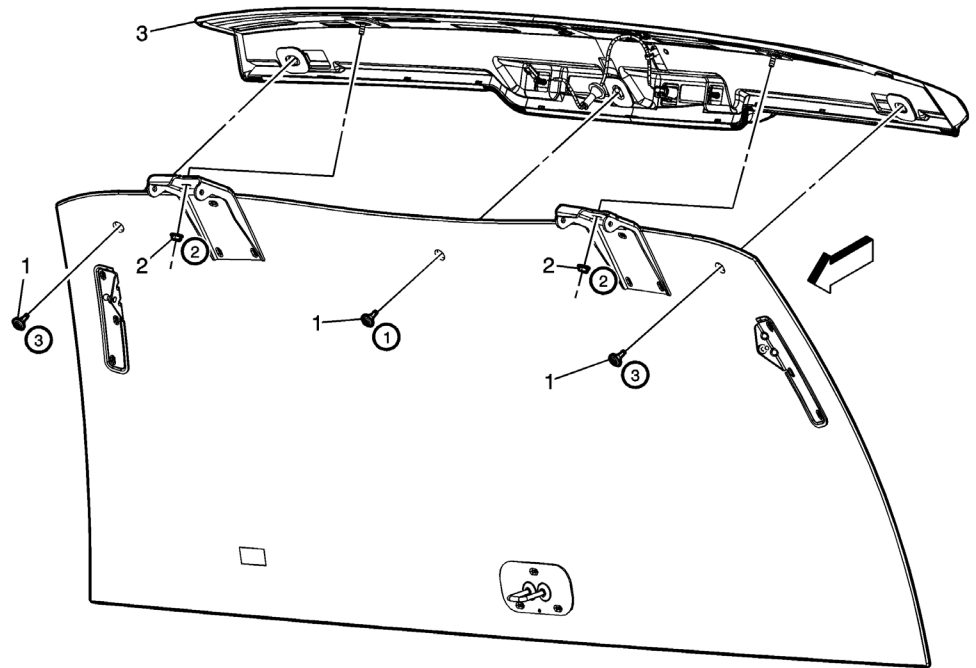
# Installation Instructions

## Tools Needed

10mm Socket

T25 Torx Driver

Torque Wrench



**Step-1.** Raise rear glass and locate the fasteners attaching the rear spoiler to the glass (Qty:5).

**Step-2.** Remove Torx fasteners (Qty:3) followed by 10mm nuts (Qty:2).

**Step-3.** Raise spoiler away from the vehicle to expose the electrical connector for the third brake light and disconnect.

**Step-4.** Remove spoiler from vehicle and lay part on a protected surface to prevent scratches.

**Step-5.** Remove 10 mm nuts from brake light assembly.

**Step-6.** Position Right/Left Citadel assembly over brake light fasteners.

**Step-7.** Reinstall 10 mm nuts from brake light assembly.

**Step-8.** Pull out the grommet, disconnect the other end of the wiring for the third brake light and discard the OEM third-brake light wiring (This part of the OEM wiring will be replaced by the Citadel cable and wiring).

**Step-9.** Route the Citadel cable following the path of the OEM brake light wiring & then route the Citadel Cable the rest of the way as desired. Plug the appropriate connector from the Citadel brake light wires into the connector of the vehicle's OEM wire harness for the third brake light. Pull the slack out of the Citadel Cable and plug the Citadel's grommet back into the grommet hole in the vehicle. Plug the opposite end connector of the Citadel brake light wire into the vehicle's OEM connector in the spoiler for the third brake light. (Note: the other Citadel wires in shrink tube should be positioned under spoiler).

**Step-10.** Place spoiler on the vehicle. Position the center spoiler screw first, followed by the hinge nuts second. **Note: make sure none of the wires are pinched as you reinstall the spoiler!**

**Step-12.** Install the outer screws last and torque the screws in the same sequence. Torque screws to 18 lb in Torque nuts to 80 lb in.

**Step-13.** The light heads in the CELS version of the Citadel are all **STEADY BURN ONLY** and require the CELS controller for power, lighting sequence, and flash patterns. See the Instruction Manual for the CELS-CC Housing for wiring connections and flash patterns.



**DO NOT APPLY 12 VOLTS DIRECTLY TO THE CITADEL WIRES AFTER IT IS CONNECTED TO THE CELS CC BOX. IF THE CITADEL IS A COMPONENT OF THE CELS SYSTEM THE CC BOARD OR THE LIGHT HEADS COULD BE DAMAGED BY APPLYING 12 VOLTS TO THE CC OUTPUTS!**

**WARNING!**



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

## Troubleshooting

All Citadel Products are thoroughly tested prior to shipment. However, should you encounter a problem during installation or during the life of the product, follow the guide below for information on repair and troubleshooting. Additional information may be obtained from the factory technical help line at 314-996-2800. Follow the guide below for information on repair and troubleshooting.

### TROUBLESHOOTING GUIDE

PROBLEM	QUESTIONS	POSSIBLE CAUSE	SOLUTION
XT Module not operating when powered.	N/A	a. Bad power/ground connection. b. Defective module.	a. Fix connection. b. Replace module

The use of this or any warning device does not ensure that 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, driving against traffic, responding at a high rate of speed, or walking on or around traffic lanes. The effectiveness of this warning device is highly dependent upon correct mounting and wiring. Read and follow the manufacturer's instructions before installing or using this device. The vehicle operator should insure daily that all features of the device operate correctly. In use, the vehicle operator should insure the projection of the warning signal is not blocked by vehicle components (i.e.: open trunks or compartment doors), people, vehicles, or other obstructions. This equipment is intended for use by authorized personnel only. It is the user's responsibility to understand and obey all laws regarding emergency warning devices. The user should check all applicable city, state and federal laws and regulations. Code 3, Inc., assumes no liability for any loss resulting from the use of this warning device. Proper installation is vital to the performance of this warning device and the safe operation of the emergency vehicle. It is important to recognize that the operator of the emergency vehicle is under psychological and physiological stress caused by the emergency situation. The warning device should be installed in such a manner as to: A) Not reduce the output performance of the system, B) Place the controls within convenient reach of the operator so that he can operate the system without losing eye contact with the roadway. Emergency warning devices often require high electrical voltages and/or currents. Properly protect and use caution around live electrical connections. Grounding or shorting of electrical connections can cause high current arcing, which can cause personal injury and/or severe vehicle damage, including fire. Any electronic device may create or be affected by electromagnetic interference. After installation of any electronic device operate all equipment simultaneously to insure that operation is free of interference. Never power emergency warning equipment from the same circuit or share the same grounding circuit with radio communication equipment. All devices should be mounted in accordance with the manufacturer's instructions and securely fastened to vehicle elements of sufficient strength to withstand the forces applied to the device. Driver and/or passenger air bags (SRS) will affect the way equipment should be mounted. This device should be mounted by permanent installation and within the zones specified by the vehicle manufacturer, if any. Any device mounted in the deployment area of an air bag will damage or reduce the effectiveness of the air bag and may damage or dislodge the device. Installer must be sure that this device, its mounting hardware and electrical supply wiring does not interfere with the air bag or the SRS wiring or sensors. Mounting the unit inside the vehicle by a method other than permanent installation is not recommended as unit may become dislodged during swerving, sudden braking or collision. Failure to follow instructions can result in personal injury. **PROPER INSTALLATION COMBINED WITH OPERATOR TRAINING IN THE PROPER USE OF EMERGENCY WARNING DEVICES IS ESSENTIAL TO INSURE THE SAFETY OF EMERGENCY PERSONNEL AND THE PUBLIC.**



# WARRANTY

Code 3, Inc.'s emergency devices are tested and found to be operational at the time of manufacture. Provided they are installed and operated in accordance with manufacturer's recommendations, Code 3, Inc. guarantees all parts and components except the lamps to a period of 1 year, LED Lighthouse modules to a period of 5 years (unless otherwise expressed) from the date of purchase or delivery, whichever is later. Units demonstrated to be defective within the warranty period will be repaired or replaced at the factory service center at no cost.

Use of lamp or other electrical load of a wattage higher than installed or recommended by the factory, or use of inappropriate or inadequate wiring or circuit protection causes this warranty to become void. Failure or destruction of the product resulting from abuse or unusual use and/or accidents is not covered by this warranty. Code 3, Inc. shall in no way be liable for other damages including consequential, indirect or special damages whether loss is due to negligence or breach of warranty.

CODE 3, INC. MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY INCLUDING, WITHOUT LIMITATION, WARRANTIES OF FITNESS OR MERCHANTABILITY, WITH RESPECT TO THIS PRODUCT.

**NEED HELP? Call our Technical Assistance HOTLINE - (314) 996-2800**

# 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.



Code 3®, Inc.  
10986 N. Warson Road  
St. Louis, Missouri 63114-2029—USA  
Ph. (314) 426-2700 Fax (314) 426-1337  
[www.code3pse.com](http://www.code3pse.com)

Revision 0, 07/18/2013 - Instruction Book Part No. T15702 ©2013  
Code 3, Inc. Printed in USA