

INSTALLATION & OPERATION MANUAL



SUPERVISORTL™



SuperVisorTL™

Interior Lighting System
Ford Crown Victoria
2006 Model

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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.*

Introduction

The SuperVisorTL™ is an interior lighting system that fits in the visor area near the top of the windshield. It delivers an amazing warning signal. The SuperVisorTL is designed on a modular basis, which means that the lightbar can be customized to meet most any requirement. The SuperVisorTL has room for up to ten LED lighthoods. Each lighthood is individually wired for any flash pattern or combination of flash patterns required.

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.

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.

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 airbags (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.



Unpacking & Pre-installation

Carefully remove the SuperVisorTL™ and place it on a flat surface, taking care not to scratch the lenses or damage the cable coming out of the side. Examine the unit for transit damage, broken lamps, etc. Report any damage to the carrier and keep the shipping carton.

Standard lightbars are built to operate on 12 volt D.C. negative ground (earth) vehicles. If you have an electrical system other than 12 volt D.C. negative ground (earth), and have not ordered a specially wired lightbar, contact the factory for instructions.

Test the unit before installation. To test, touch the black wire to the ground (earth) and the other wires to +12 volts D.C., in accordance with the instructions attached to the cable (an automotive battery is preferable for this test). Some units may be factory wired for control by an LED flasher in which case the cable's wire tag should be consulted. A battery charger may be used, but please note that some electronic options (flashers, stingrays, etc.) may not operate normally when powered by a battery charger. If problems occur at this point, contact the factory.

WARNING!



Utilizing non-factory supplied screws and/or mounting brackets and/or the improper number of screws may result in loss of warranty coverage on the equipment.

Mounting Hardware - All mounting hardware is packed in a small box inside the main carton. There are four brackets used to mount the SuperVisorTL™ to the vehicle. These are discussed in detail later.

Step 1-Removing Sun Visors

Begin the installation by removing the Crown Victoria's driver and passenger sun visors. Identify each visor with tape or other marking to indicate the driver from the passenger side unit; they are not identical. There are three screws that hold the pivotal arm of the sun visor to the headliner. Remove each screw using a small #20 torx screwdriver starting with the lower screw as shown in Figure 1. Then unclip the sun visor and rotate it over to expose and remove the two upper screws.

Step 2 Remove the visor retaining clips

Remove the sun visor retaining clips, unscrew the single torx screw holding it in place as shown in Figure 2.



FIGURE 1



FIGURE 2

Step 3 Attach the pivot arm brackets

Attach the outer brackets that are supplied noting the difference between passenger and driver side brackets (see Figure 3 -Driver side shown). Rotate the Pivot Arm on the Driver's side sun visor and verify the orientation of the Outer Bracket as shown in Figure 4. Position the Driver's Side pivot arm and attach the first Torx screw as shown in Figure 5. Next, move the sun visor over in order to gain access to install the other two Torx screws. Repeat this operation for the Passenger Side pivot arm and outer bracket. Do not tighten any of the screws at this time.



FIGURE 3



FIGURE 4



FIGURE 5

Step 4 Attach brackets to sun visor retaining clips

Place the inner bracket on the retaining clip as shown in Figures 6 and 7. Attach the inner bracket and retaining clip to the headliner as illustrated in Figure 8. Do not tighten these screws at this time.



FIGURE 6



FIGURE 7



FIGURE 8

Step 5 Mounting the SuperVisorTL™

Once all four brackets and sun visors are attached, the SuperVisorTL is now ready to be installed. Rotate the rear view mirror down as far out of the way as possible. Route the power cable across the top and along the passenger side of the SuperVisorTL, then route it through the notch provided on the front and passenger side of the outer panel. This will prevent it from interfering with the head liner or the windshield during installation. Carefully move the SuperVisorTL into position by tilting one end up with the front outer tip of the SuperVisorTL in front of the corner post of the Crown Vic as shown in Figure 9, then swing the other end up into position being very careful not to scratch the Crown Vic's plastic corner post covers (Note: It may be helpful to have an assistant gently push on the vehicle's plastic corner door post cover as you swing the SuperVisorTL into position to prevent scratching the plastic cover. Also make sure there is no slack in the SuperVisorTL's power cable and it is not interfering with the positioning of the SuperVisorTL). Line up the mounting holes in the outer mounting brackets with the threaded holes in the SuperVisorTL and thread the supplied 1/4"-20 bolts and internal tooth lock washers into the SuperVisorTL's Outer Panel (see Figure 10). Next line up the mounting holes in the Inner mounting brackets with the threaded holes in the SuperVisorTL and loosely thread the supplied 1/4"-20 bolts and internal tooth lock washers into holes in the SuperVisorTL's Outer Panel (see Figure 11). Tighten the 1/4"-20 bolts in the Outer Mounting Brackets (see Figure 12), then tighten the three Torx screws in each of the two outer Pivot Brackets. Tighten the two center inner mounting screws, then while pushing up on the SuperVisorTL's Outer Panel, tighten the last two 1/4"-20 bolts at the Inner Mounting Brackets (see Figure 13).



FIGURE 9



FIGURE 10



FIGURE 11



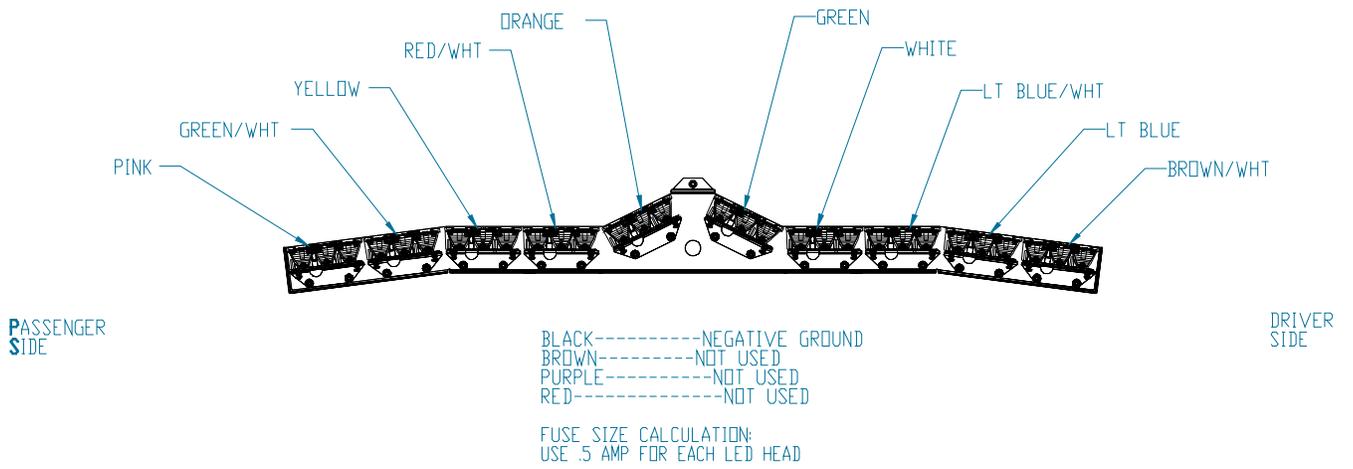
FIGURE 12



FIGURE 13

The bracket fasteners make excellent hard mounting points for radar guns and video cameras etc.

Caution:Drilling into the housing of the lightbar could damage wiring or other internal components.

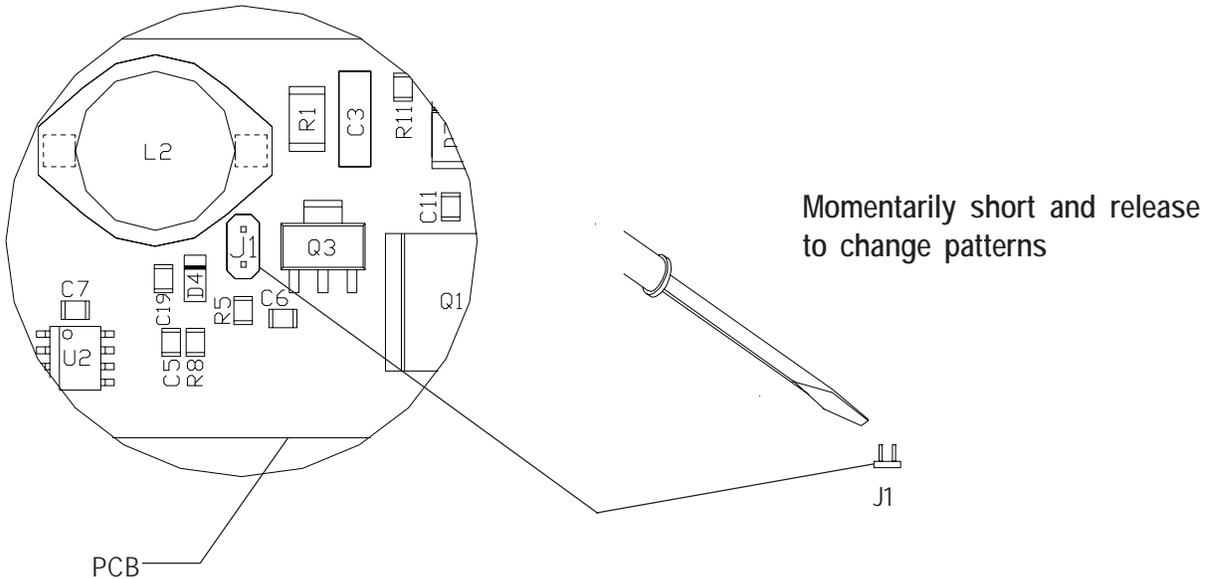


Wiring Diagram

Directional module Flash Pattern - Table 2

CycleFlash (DEFAULT)
 NFPA QuadFlash75
 Steadyburn
 ModelFlash
 ActiveFlash
 FiveFlash70
 QuadFlash70
 TripleFlash70
 DoubleFlash70
 SingleFlash75

Quad Pop Flash75
 Triple Pop Flash75
 SingleFlash375
 SingleFlash250
 SingleFlash150
 FiveFlash150
 QuadFlash150
 DoubleFlash150
 TripleFlash150



Flash Pattern Header for OPTIX/LEDX

Troubleshooting

All SuperVisorTLs 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.

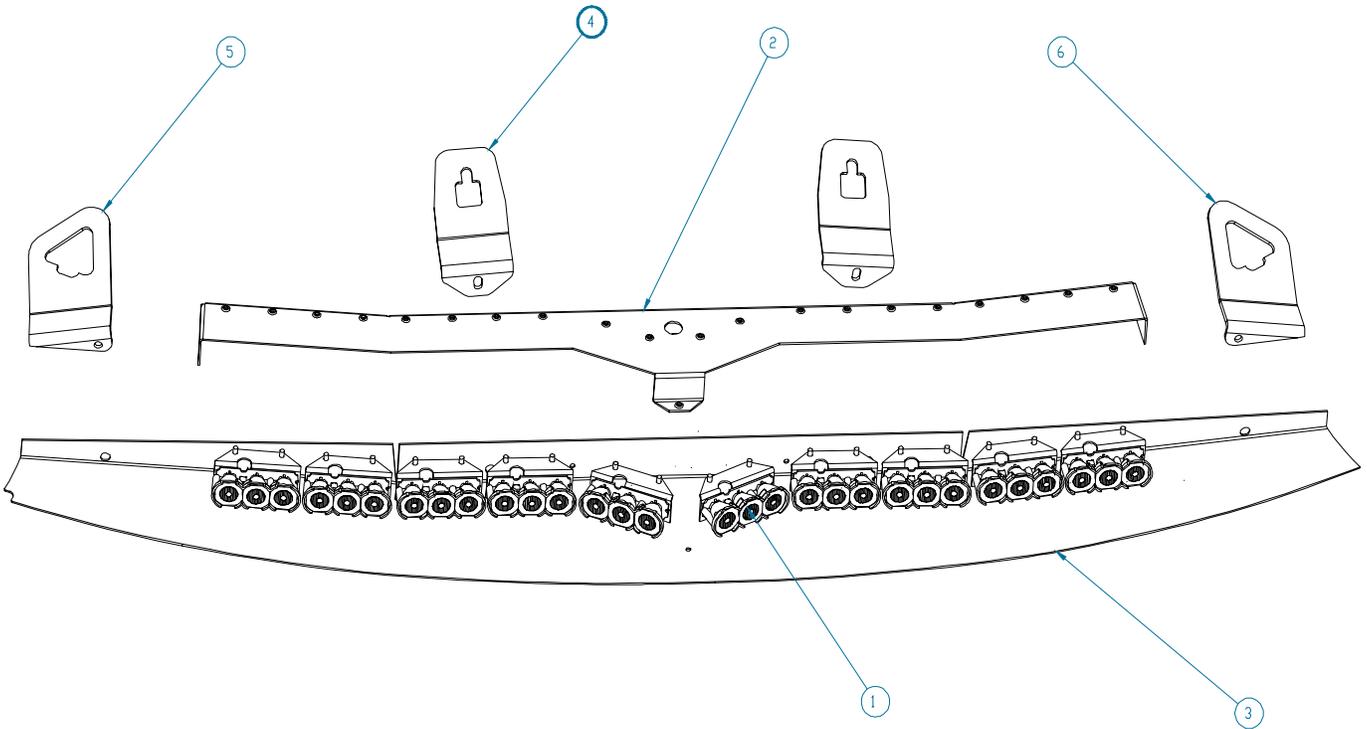
Follow the guide below for information on repair and troubleshooting.

TROUBLESHOOTING GUIDE

Note: LED modules must be replaced as a module. There are no user serviceable parts.

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

Parts List



<u>Reference Number</u>	<u>Part Description</u>	<u>Part Number</u>
1	*LED Module	*Contact Code 3, Inc for P/N
2	Chassis	T14712
3	Outer Panel	T14711
4	Inner Mtg. Brkt. Crown Vic	T14708
5	Outer Mtg. Brkt. Crown Vic Pass Side	T14710
6	Outer Mtg. Brkt. Crown Vic Drivr Side	T14709

Notes

Notes

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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.

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.

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

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