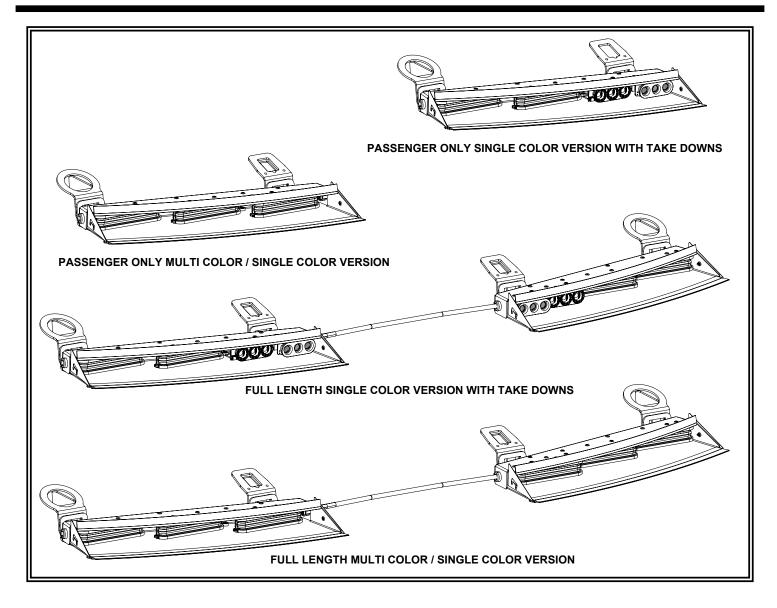


Installation and Operation Manual SuperVisor Flex™Series Interior Lighting System



Introduction: SuperVisor Flex Series
The SuperVisor Flex is an interior lighting
system that fits in the visor area near the top
of the windshield. The SuperVisor Flex comes
with up to (6) 18 LED Multi Color Light Heads
or (6) 9 LED Single Color Light Heads or a totally Single Color Version with up to (4) 9 LED
Single Color Torus Light Heads and up to (4)
Torus Take Downs or (4) 3 LED IF Light Heads.

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Product Specifications:

Unpacking & Pre-installation:

Carefully remove the Unit and place it on a flat surface, taking care not to scratch the lenses or damage the cable coming out of the Housing. Examine the unit for transit damage, broken optics, LED's, etc. Report any damage to the carrier and keep the shipping carton.

Standard light bars 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 light bar, 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). A battery charger may be used, but note that some electronic options may not operate normally when powered by a battery charger. If problems occur at this point, contact the factory!

Note: Before beginning the installation process, be absolutely certain that the Light Bar functions as desired (See pages 9 - 13 for wiring and available light head configurations)!

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 manufacturers recommendations may result in property damage, serious injury, and/or death to those you are seeking to protect!

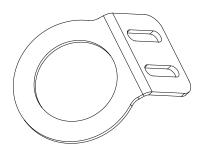


Do not install and/or operate this safety product unless you have read and understand the safety information contained in this manual.

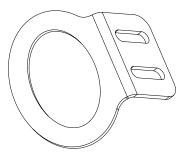
- 1. Proper installation combined with operator training in the use, care, and maintenance of emergency warning devices are essential to ensure the safety of emergency personnel and the public.
- Emergency warning devices often require high electrical voltages and/or currents. Exercise caution when working 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.

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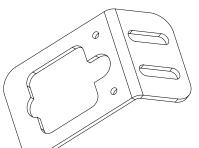
Individual Mounting Bracket Identification: Universal Kits.



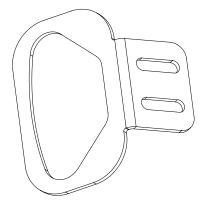
STANDARD ROUND OUTER MOUNTING BRACKET UNIVERSAL KITS 2012+ DODGE DURANGO



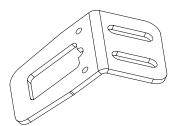
OVAL OUTER
MOUNTING BRACKET
UNIVERSAL KITS



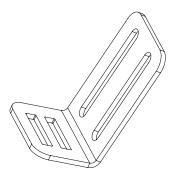
RECTANGULAR
OUTER MOUNTING BRACKET
UNIVERSAL KITS
2012-2014 FORD F150
2012+ PI SEDAN



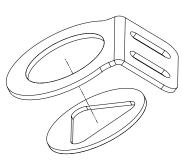
SUV (TAHOE) OUTER MOUNTING BRACKET UNIVERSAL KITS 2005 TO 2014 CHEVY TAHOE 2005 TO 2014 SUBURBAN 2005 TO 2014 SILVERADO



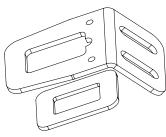
STANDARD INNER
MOUNTING BRACKET
UNIVERSAL KITS
2012+ PI SEDAN
2012+ FORD FUSION
2005+ CHEVY IMPALA
2004+ FORD CROWN VIC
2012-2014 FORD F150
2012+ DODGE DURANGO



SLOTTED MOUNTING BRACKET USED IN ALL VEHICLES EXCEPT UNIVERSAL KITS NOT FOR DEDICATED BRACKET KITS



STANDARD ROUND OUTER MOUNTING BRACKET W TRIANGULAR WASHER UNIVERSAL KITS 2004+ FORD CROWN VIC 2004+ CHEVY IMPALA



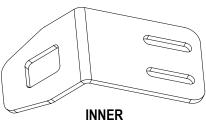
STANDARD INNER
MOUNTING BRACKET
W RECTANGULAR WASHER
UNIVERSAL KITS
2005 TO 2014 CHEVY TAHOE
2005 TO 2014 SUBURBAN
2005 TO 2014 SILVERADO
2005 TO 2014 DODGE CHARGER EXCEPT
NOT FOR DEDICATED DODGE CHARGER



OUTER MOUNTING PLATE USED WITH J CLIP & 2015+ FORD F150 OUTER MOUNTING BRACKET SHOWN BELOW FOR 2012+ FORD FUSION



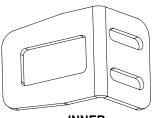
MOUNTING BRACKET UNIVERSAL KITS 2015+ FORD F150 2012+ FORD FUSION



MOUNTING BRACKET UNIVERSAL KITS 2015+ FORD F150

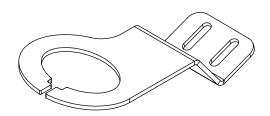


OUTER
MOUNTING BRACKET
UNIVERSAL KITS
2012+ DODGE RAM

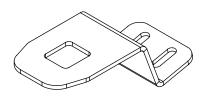


INNER
MOUNTING BRACKET
UNIVERSAL KITS
2012+ DODGE RAM

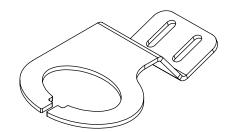
Individual Mounting Bracket Identification: Dedicated Kits.



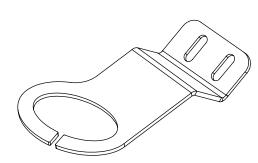
DEDICATED DRIVER OUTER MOUNTING BRACKET 2012+FORD PI UTILITY PART #220-0821-00



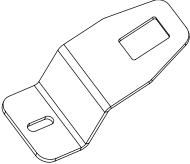
DEDICATED INNER MOUNTING BRACKET 2012+ FORD PI UTILITY PART #220-0815-00



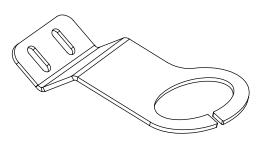
DEDICATED PASSENGER OUTER MOUNTING BRACKET 2012+FORD PI UTILITY PART #220-0820-00



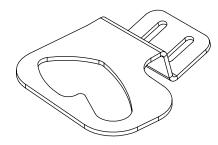
DEDICATED DRIVER OUTER MOUNTING BRACKET 2015+ DODGE CHARGER PART #220-0775-00



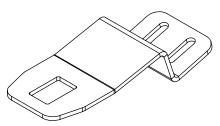
DEDICATED INNER MOUNTING BRACKET 2015+ DODGE CHARGER PART #220-0776-00



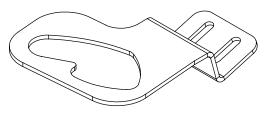
DEDICATED PASSENGER OUTER MOUNTING BRACKET 2015+ DODGE CHARGER PART #220-0774-00



DEDICATED DRIVER OUTER
MOUNTING BRACKET
2015+ CHEVY TAHOE
PART #220-0894-00



DEDICATED INNER MOUNTING BRACKET 2015+CHEVY TAHOE PART #220-0896-00



DEDICATED PASSENGER OUTER MOUNTING BRACKET 2015+ CHEVY TAHOE PART #220-0895-00



DEDICATED INNER
MOUNTING BRACKET SPACER
2015+ CHEVY TAHOE
PART #220-0897-00

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Installation & Mounting Instructions: Full or Passenger Side Only SuperVisor Flex.

Note: Dedicated, Vehicle Specific, Mounting Brackets & instructions are available for the following vehicles that greatly reduce & simplify the installation process.

- 1. 2012 or newer PI Utility, see pages 19, & 20 for Dedicated Mounting Bracket Installation Instructions.
- 2. 2015 or newer Dodge Charger, see pages 21, 22, & 23 for Dedicated Mounting Bracket Installation Instructions.
- 3. 2015 or newer Chevy Tahoe, see pages 24, 25, & 26 for Dedicated Mounting Bracket Installation Instructions.

For a 2012 or newer Ford Fusion, see pages 27, 28, & 29. Note: These Instructions on pages 27, 28, & 29 are for the Outer Mounting Bracket Installation Instructions Only. For the remainder of the installation instructions for the Ford Fusion, continue on to Step 2 below.

If your vehicle is not one of the vehicles above continue on with these instructions.

Note to the installer:

The following steps for the installation of the Unit may seem redundant or unnecessary, but in order for the product to fit and perform properly these steps are necessary. The Unit's Inner and Outer Mounting Brackets may require some trimming to properly fit the irregular recessed shapes of the the vehicle's headliner fabric, the shapes of the plastic sun visor pivot brackets, and the shapes of the sun visor clip brackets. Many times the plastic brackets are recessed up into the fabric of the headliner. These recesses will require that the outer edges of the Unit's Outer Mounting Brackets be trimmed to fit into the recess. The fit of the Unit's Inner and Outer Mounting Brackets to the headliner can greatly affect the angles the brackets will be at when installed due to the inconsistant crush of the vehicle's headliner fabric and the irregular shapes of the vehicle's sheet metal above the headliner fabric. The Unit's Inner and Outer Mounting Brackets may require bending to align with the Unit's Slotted Mounting Brackets and Outer Panels in the final assembly. The most important issue in the installation is that the Unit must be securely fastened to the vehicle for passeneger safety and the unit must be level in the vehicle to insure that the light bar will perform as intended (See Figure 1 on page 7). The installation process may require trial and error to make adjustments to the Unit's Brackets to fit properly in their final location.



WARNING!

When drilling into any vehicle surface, make sure that the area is free from any electrical wires, fuel lines, sensors, vehicle upholstery,etc. that could be damaged.

Step 1 Remove the vehicle's plastic outer visor pivot brackets to determine which of the Unit's Outer Mounting Bracket sets best fit the vehicle (See Individual Mounting Bracket Identifications on pages 3 & 4 for the available options). The Standard Round Outer Mounting Bracket with the Triangular Washer will be the most commonly used set as the Triangular Washer allows the Round Outer Mounting Bracket to rotate to accomodate extreme angles of rotation for adjustment while allowing the triangular hole in the washer to align with the most common visor pivot brackets. If none of the Unit's Outer Mounting Bracket versions appear to work for your application the Unit's Rectangular Outer Mounting Brackets may be cut off as shown in Figure 2 on page 8. The brackets may then be used as a template to drill (2) 9/64" .140" diameter mounting holes directly through the fabric of the headliner and through the vehicle's sheet metal above the headliner so that the brackets can be mounted directly to the vehicle's headliner using the supplied #8 X 1" Black Phillips Truss Head Sheet Metal Screws. Caution: Before doing any drilling in the vehicle, refer to the vehicle's service manual to pull the fabric headliner down slightly and observe the locations of any wiring or sensing devices to avoid doing damage to them!!! Also be very careful not to drill through the vehicle's roof. If none of the bracket options are appropriate to the vehicle you are installing the Unit in, it may be necessary to make your own mounting brackets.

Step 2 Remove the vehicle's plastic inner visor clips. In a majority of vehicles the plastic inner visor clips will fit in the rectangular hole in the Unit's Inner Mounting Brackets but the Inner Mounting Brackets may require some modification with a file or other cutting tool to clear the shapes in the vehicle's plastic visor clips. For vehicles with smaller inner visor clips you may need to use the supplied Rectangular Washer in your vehicle application. Make any necessary modifications to the Inner Mounting Brackets to make the vehicle's plastic visor brackets fit in the hole. If the Inner Mounting Brackets do not work, the Inner Mounting Brackets may also be cut off as shown in Figure 2 on page 8 and the brackets can be mounted by using the brackets as a template to drill (2) 9/64" .140" diameter mounting holes directly in the vehicle's headliner and the sheet metal above the headliner fabric so that the brackets can be mounted directly to the vehicle's headliner using the supplied #8 X 1" Black Phillips Truss Head Sheet Metal Screws. Caution Again: Before doing any drilling in the vehicle, pull the headliner down slightly and observe the locations of any wiring or sensing devices to avoid doing damage to them!!! Again as with the Outer Mounting Brackets, be very careful not to drill through the vehicle's roof. If none of the bracket options are appropriate to the vehicle you are installing the Unit in, it may be necessary to make your own mounting brackets for your application.

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Installation & Mounting Instructions: Continued.

Step 3 Loosely fasten each of the Unit's Outer and Inner Mounting Brackets to a Slotted Mounting Bracket with (2) of each of the provided 1/4"-20 X 1/2" long Carriage Bolts, 1/4" Internal Tooth Lock Washers, and the 1/4"-20 Acorn Nuts as shown in Figure-3 on page 8. The Carriage bolts can be located in the slots in the brackets in what ever combination of locations works best for your application to position the brackets at the required angles.

Note: Figure-3 only shows the assembly of the Unit's Inner Mounting Brackets but the assembly of the Outer Mounting Brackets is the same. As stated above and as shown in Figure-3, it is recommended that each Outer or Inner Mounting Bracket is attached to a Slotted Mounting Bracket with (2) of each of the 1/4"-20 X 1/2" long Carriage Bolts, 1/4" Internal Tooth Lock Washers, and the 1/4"-20 Acorn Nuts. While the design allows for a good deal of adjustment in some circumstances where the brackets need to be attached at an extreme angle to each other, it may be necessary to file out the mounting slots slightly in the brackets to accommodate the second fastener.

Step 4 Have an assistant hold either the Passenger or the Driver side of the the Unit up to the vehicle's windshield as close as possible to desired location. Make sure that the rubber gasket on the Unit's lower Panel folds down to conform to the vehicle's windshield curve and that the gasket at the top of the Unit folds back towards the passenger compartment to conform to the angle of the vehicle's windshield (See Figure 1 on page 7). Note: In operation, the purpose of these gaskets is to block out as much flash back light from the driver's view as possible so that the driver will not be distracted. While the Unit is held in position, hold up the Inner and Outer Mounting Bracket assemblies to the Outer Panel of the Unit to determine the appropriate mounting hole locations that best line up with the slots in the Slotted Mounting Brackets for each of the bracket assemblies.

Step 5 Loosely thread the 1/4" Internal Tooth Lock Washers, and the 1/4"-20 X 3/8" long Phillips Pan Head Screws into the the closest appropriate mounting hole locations for the hardware and make adjustments to position them close to their final position. See the under side view of the Unit Assembly in Figure 4 on page 8 for bracket assembly orientation and mounting hole adjustment choices. Line up the flanges in the Unit's Inner and Outer Mounting Brackets with the appropriate locations in the vehicle's headliner where the vehicle's visor pivot brackets and the visor clips were installed. Once the brackets are aligned, tighten the screws in the Unit's Outer Panel only tight enough to keep the Slotted Brackets in their orientation and keep them from moving so that they will stay in position.

Step 6 Observe the angles & positions of the Inner & Outer Mounting Brackets & then disassemble & remove them from the Slotted Mounting Brackets.

Step 7 Hold the Unit's Outer Mounting Bracket for the side of the vehicle you have been working on in position with the hole in the vehicle's headliner where the plastic outer visor pivot bracket was. Determine if any modifications will be required to make it fit up against the headliner at the approximate angle it was at when you observed it in step 6 above. Make any required modifications to make the bracket fit up against the headliner and fit the vehicle's plastic outer pivot bracket.

Step 8 Mount the Unit's Outer Mounting Bracket and the vehicle's plastic visor pivot bracket using the vehicle's OEM fasteners making sure the bracket is oriented at approximately the same angle it was at when you observed it in step 6 above. If the vehicle's OEM fasteners are too short either use the supplied #8 X 1" Black Phillips Truss Head Sheet Metal Screws or if the supplied fasteners will not work obtain appropriate screws at your local hardware store. Tighten the screws up to snug the Outer Mounting Bracket tight up against the vehicle's headliner and in position.

Step 9 Mount the Unit's Inner Mounting Bracket and the vehicle's inner visor clip using the vehicle's OEM fastener making sure the bracket is oriented at approximately the same angle it was at when you observed it in step 6 above. If the vehicle's OEM fastener is too short either use the supplied #8 X 1" Black Phillips Truss Head Sheet Metal Screw or if the supplied fasteners will not work obtain appropriate screws at your local hardware store. Tighten the screw up to snug the Inner Mounting Bracket tight up against the vehicle's headliner and in position.

Step 10 Hold the Unit Back up to the Installed Unit's Outer and Inner Mounting Brackets and determine if the angles of the brackets need to be bent to realign them with the angled mounting tabs of the Slotted Mounting Brackets to facilitate the final installation of the Unit. If necessary remove the Outer and Inner Mounting Brackets and bend the angles to line them up with the Slotted Mounting Brackets or remove and bend the angles of the Slotted Mounting Brackets so that they line up with the Unit's Inner and Outer Mounting Brackets.

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Installation and Mounting Instructions: Continued.

Step 11 After all adjustments to the Mounting Brackets are made, reposition the Brackets, remount them loosely to the vehicle's headliner, loosely refasten the Slotted Mounting Brackets to the Inner and Outer Mounting Brackets, then reposition the Unit and loosely thread the 1/4" Internal Tooth Lock Washers, and 1/4"-20 X 3/8" long Phillips Pan Head Screws through the slots in the Slotted Mounting Brackets and into the appropriate mounting holes in the bottom of the Unit.

Note 1: In it's final position, the Unit's Gaskets must be up against the vehicle's windshield or headliner to block out as much light as possible.

Note 2: The Unit must be as close to level to the ground as possible in the front to back direction when it is in it's final location. The Unit may be slightly out of level in the left to right direction but should still be somewhat close to level in order to obtain maximum performance from the product when installed (See Figure 1 below). It is very important that the vehicle is setting on a level floor when checking the Unit for level before making adjustments for the final assembly.

Step 12 Note: If the Unit you are installing is a Multi Color SuperVisor Flex, you can skip Step 12 and move on to Step 13. Using the arrow labels on the under side of the Unit as a guide to aim the lights, adjust the Unit position on each side to aim the Take Down Light Heads in the forward direction (See Figure 4 on Page 8 which shows the Light Head Direction Arrow Labels). While aiming the Unit, make sure the upper and lower gaskets are still engaged enough with the windshield and headliner to block out any flashback light.

Step 13 Make all required final adjustments and tighten all hardware making sure the unit is held in the desired position and doesn't move during the process of tightening the fasteners.

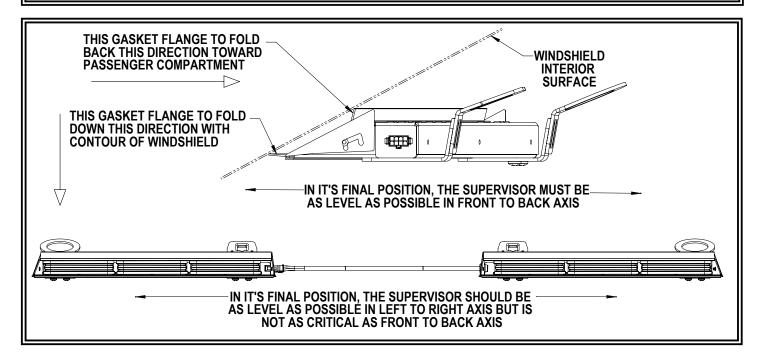
Step 14 Repeat steps 1 through 13 for the opposite side of the Unit.

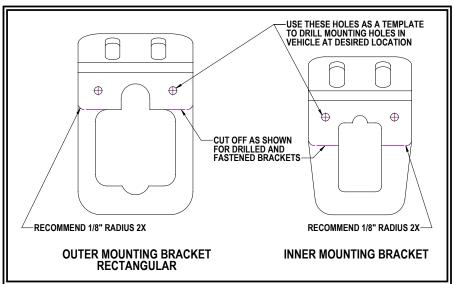
Step 15 Once both sides of the Unit are installed, leveled and in the final position, loosen the screws on each of the Side Light Blockers, adjust their position so they are up against the windshield & retighten the screws to block out any flash back light that might come out the sides of the Unit (see Figure 5 on page 8). If necessary drill holes or trim the Light Blockers as needed with scissors to allow enough adjustment so that they will block as much light as possible.

Note: If light escapes through the mounting holes in the bottom of the unit, the holes can be plugged using the provided 3/16" diameter T01237 Cap Plugs from the hardware kit (See Figures 6 & 7 on Page 11 & See "UN-USED MOUNTING HOLES" Note in Figure 4 on Page 8).

Step 16 See pages 8 through 11 for detailed wiring instructions.

Important: This unit is a safety device, and it must be connected to its own separate, fused power point to assure its continued operation should any other electrical accessory fail.





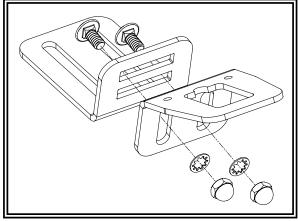


FIGURE 3

FIGURE 2

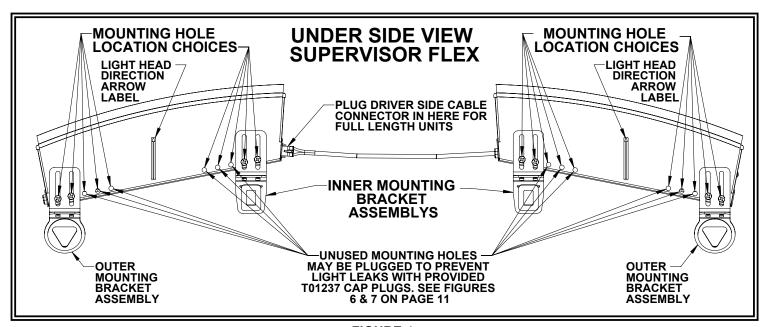
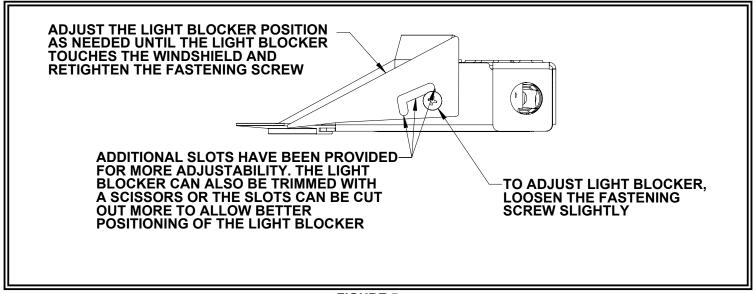


FIGURE 4



Wiring Instructions:

Route the Unit's cable as desired and plug the Unit's Driver Side Center Cable Connector into the Passenger Side Connector (Full Length Versions Only! See note in Figure-4 on Page 7). **Note: It is advisable to leave an extra loop of cable when installing the light bar to allow for future changes or reinstallations.**

Single Color Versions: For wiring the Single Color Versions of the SuperVisor Flex, connect the black lead to a solid frame ground (earth), preferably the (-) or ground (earth) side of the battery, & connect the remaining wires as shown in the Wiring Diagrams Labeled "Single Color Version Wiring Diagrams" on pages 10 & 11 to the +12V terminal of the battery.

Multi Color Versions: For wiring the Multi Color SuperVisor Flex, see the Wiring Diagram Labeled "Full 18 LED Multi Color Version Wiring Diagrams" on page 10 & see the Multi Color SuperVisor CC Controller Wiring Diagram on page 12.



WARNING! Do not apply 12 volts to the wire colors that are not shown in the diagram for the version of the unit you have purchased as this could potentially cause a direct short circuit.

LED Fusing Considerations - Single Color Independant Flashing Versions

Although the average current draw per module is very low, due to the type of circuit used to power each module, the instantaneous peak current to a module can be significantly higher during low voltage conditions. To avoid prematurely blowing ATO style fuses or tripping breakers it is recommended the following rule-of-thumb be used to size fuses or breakers. This is especially important in lightbars with many LED modules running off a single fused source.

Minimum fuse size calculation: (See Wiring Diagrams pages 9&10)

For LED 12 volt electrical current

- 1.5 X (number of 9LED modules being fused) = Total Electrical Current at 12.8 VDC or
- 0.5 X (number of 3LED modules being fused) = Total Electrical Current at 12.8 VDC

LED MODULES

Operating Specifications - directional module: Operating Voltage: 10-16 VDC, Reverse Polarity Protection

Current Draw: Flashing Module

Red/Amber - .25A avg @ 12.8 Volts Blue/White - .40A avg @ 12.8 Volts

Steady Burn Module

Red/Amber - .50A avg @ 12.8 Volts Blue/White - .80A avg @ 12.8 Volts

LED Fusing Considerations - Multi Color CC Versions

NOTE: The Components of the Multi Color SuperVisor Flex System are circuit protected by the Multi Color SuperVisor Flex System CC Board so the individual wires in the System do not require fusing.



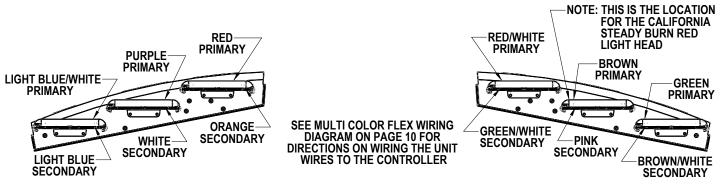
WARNING! Do not apply 12 volts directly to the supervisor flex wires after they are connected to the Supervisor Multi Color CC Box. The Multi Color Supervisor Flex CC Board or the light heads could be damaged by applying 12 volts to the CC outputs.

IMPORTANT WIRING NOTES:

- 1. Larger wires and tight connections will provide longer service life for components. For high current wires it is highly recommended that terminal blocks or soldered connections be used with heat shrink tubing to protect the connections.
- 2. Route wiring using grommets and sealant when passing through compartment walls. Minimize the number of splices to reduce voltage drop. NOTE: High ambient temperatures (e.g. under hood) will significantly reduce the current carrying capacity of wires, fuses, and circuit breakers. All wiring should conform to the minimum wire size and other recommendations of the manufacturer and be protected from moving parts and hot surfaces. Looms, grommets, cable ties, and similar installation hardware should be used to anchor and protect all wiring.
- 3. Fuses or circuit breakers should be located as close to the power takeoff points as possible and properly sized to protect the wiring and devices.
- 4. Particular attention should be paid to the location and method of making electrical connections and splices to protect these points from corrosion and loss of conductivity.
- 5. Ground terminations should only be made to substantial chassis components, preferably directly to the vehicle battery.
- 6. Circuit breakers are very sensitive to high temperatures and will "false trip" when mounted in hot environments or operated close to their capacity.

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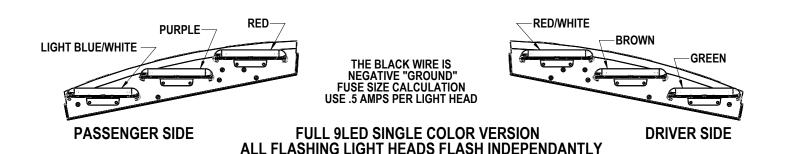
MULTI COLOR SUPERVISOR FLEX INTERNAL WIRE COLOR DIAGRAMS FULL UNITS SHOWN-PASSENGER SIDE UNITS ARE SAME WIRE COLORS

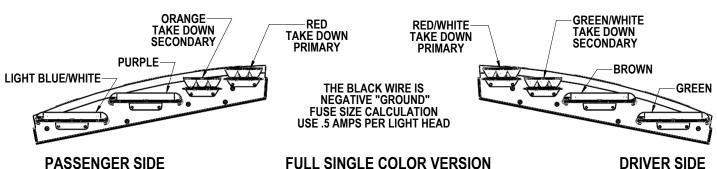


PASSENGER SIDE

FULL 18LED MULTI COLOR VERSION

DRIVER SIDE





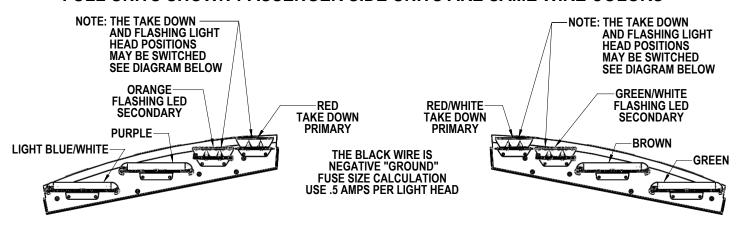
FULL SINGLE COLOR VERSION
(4) 9LED IF HEADS & (4) TAKE DOWNS
ALL FLASHING LIGHT HEADS FLASH INDEPENDANTLY



FULL SINGLE COLOR VERSION
(4) 9LED IF HEADS & (4) 3LED IF HEADS
ALL FLASHING LIGHT HEADS FLASH INDEPENDANTLY

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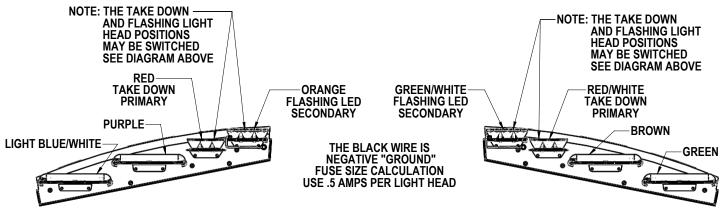
MULTI COLOR SUPERVISOR FLEX INTERNAL WIRE COLOR DIAGRAMS CONT: FULL UNITS SHOWN-PASSENGER SIDE UNITS ARE SAME WIRE COLORS



PASSENGER SIDE

FULL SINGLE COLOR VERSION
(4) 9LED IF HEADS, (2) TAKE DOWNS & (2) 3LED IF HEADS
ALL FLASHING LIGHT HEADS FLASH INDEPENDANTLY

DRIVER SIDE



PASSENGER SIDE FULL SINGLE COLOR VERSION WITH 3LED HEADS SWITCHED DRIVER SIDE (4) 9LED IF HEADS, (2) TAKE DOWNS & (2) 3LED IF HEADS ALL FLASHING LIGHT HEADS FLASH INDEPENDANTLY



FIGURE 6

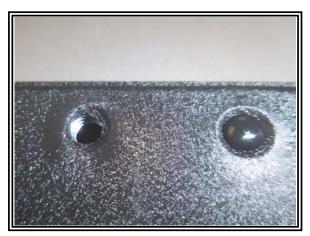
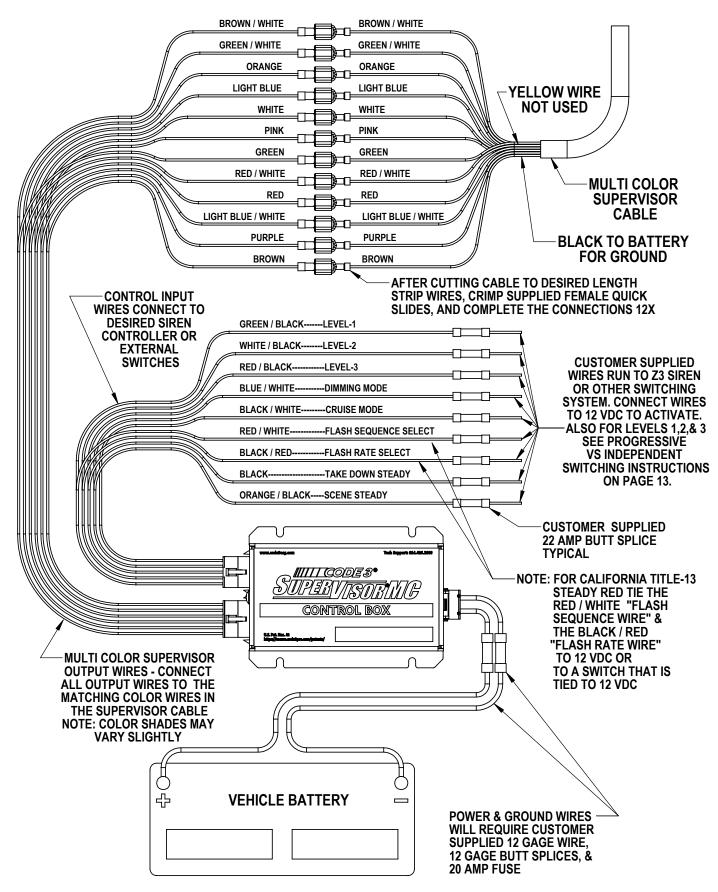


FIGURE 7

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MULTI COLOR SUPERVISOR & CC WIRING DIAGRAM



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Progressive vs. Independent Switching

In a 3-level progressive switch application there are only 3 patterns that typically need to be set. Using the defaults in the Switching Table below, the patterns displayed would be as follows.

Pattern 1: As the switch is moved from the off position (with the progressive levels notated in parentheses). The defaults listed in this manual are for the progressive 3 levels.

Pattern 2: In an application with 2- or 3- independent switches there are "combinations" of wire colors that can have unique flash patterns defined, thus allowing the switches to simulate a progressive style application. It is intuitive to think that only three unique flash patterns can be displayed in a system with 3 independent switches; however, seven patterns are available. In the Switching Table below, independent switches can mimic a 3-level progressive switch or create a total of seven different lighting levels.

Note: Remember that the switches that are not progressive, operate completely independent of each other.

Pattern 3: There are seven possible 3-Level modes (see Switching Table below). The factory default is different for each of the 3-Level modes. The standard progressive switch will use the Level-1, Level-2 and Level-3 modes. The defaults for Level-1, Level-2 (L1 + L2) and Level-3 (L1 + L2 + L3) are identified below. When using individual non-progressive switches, make sure to select patterns for all switch combinations that will be utilized.

Switching Table: 3-Level Modes of Operation

MODE NUMBER	WIRES ACTIVATED
L1	GRN/BLK (LEVEL-1)
L2	WHT/BLK
L1 + L2	GRN/BLK & WHT/BLK (LEVEL-2)
L3	RED/BLK
L1 + L3	GRN/BLK & RED/BLK
L2 + L3	WHT/BLK & RED/BLK
L1 + L2 + L3GR	N/BLK, WHT/BLK, & RED/BLK (LEVEL-3)

Flash Pattern Instructions: SUPERVISOR FLEX Multi Color Units

Choose one of the levels to set by firmly connecting it to +12V. See page 12 for Control Input Wires and see page 14 for available Flash Rates and Sequences.

Incrementing Sequence (or Rate):

Hold the Sequence (or Rate) Select wire to +12V to increment to the next sequence (or rate) in the list for the chosen level. The Select wire can be removed from +12V when the lights turn on steady. (Do not hold longer than a second. Only a tap of the wire to +12V is necessary)

Decrementing Sequence (or Rate):

Hold the Sequence (or Rate) Select wire to +12V for 3 seconds. The Select wire can be removed from the +12V when the lights turn on steady and then off steady. This will decrement to the previous Sequence (or Rate) in the list for the chosen level. (Do not allow the lights to turn on a second time.)

Default Reset Sequence (or Rate):

Hold the Sequence (or Rate) Select wire to +12V for 5 seconds. The Select wire can be removed from the +12V when the lights turn on steady, then off steady, and then back on steady a second time. This will reset to the default Sequence (or Rate) in the list for the chosen level.

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Flash Pattern Instructions: SUPERVISOR FLEX Multi Color Units Cont:



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

INSTALLER NOTE: FLASH RATE + FLASH SEQUENCE = FLASH PATTERN

<u>Light Head Flash Sequences - Multi Color</u>

LEFT / RIGHT Primary & Secondary

Primary Only - LEVEL - 1 DEFAULT (DEFAULT)

Secondary Only

Primary w/Secondary Pops - LEVEL - 3 DEFAULT

Primary w/Secondary Random

EVEN / ODD Primary & Secondary

Primary Only - LEVEL - 2 DEFAULT

Secondary Only

Primary w/Secondary Pops

Primary w/Secondary Random

IN / OUT Primary & Secondary

> **Primary Only** Secondary Only

Primary w/Secondary Pops Primary w/Secondary Random

RANDOM

Primary & Secondary Primary Only

Secondary Only Primary w/Secondary Pops

Primary w/Secondary Random

CYCLE SEQUENCE Primary & Secondary

Primary Only Secondary Only **RANDOM**

Primary w/Secondary Pops Primary w/Secondary Random

ALL ON RANDOM Primary & Secondary

SWEEP LEFT / RIGHT Primary & Secondary

Primary Only Secondary Only

Primary w/Secondary Pops Primary w/Secondary Random

NULL All Light Heads OFF **Light Head Flash Rates - Multi Color**

Double Flash-75 - LEVEL - 2 DEFAULT Triple Flash-75

Quad Flash-75 Quint Flash-75

Double Flash-150 - LEVEL - 3 DEFAULT Triple Flash-150 - LEVEL - 1 DEFAULT

Quad Flash-150

Quint Flash-150 Triple Pop Flash-150 Quad Pop Flash-150

Single Flash-375 Cycle Rates

Cruise is configurable to any symetric setting. TD Steady is configurable to any symetric setting.

Cruise **Scene Steady**

2 Outer Secondary Steady

2 Outer Secondary Flicker 4 Outer Secondary Steady

4 Outer Secondary Flicker 6 Outer Secondary Steady

6 Outer Secondary Flicker

TD Steady

All 6 Secondary

2 Inner Secondary 2 Middle Secondary

2 Outer Secondary

4 Inner/Middle Secondary 4 Outer/Middle Secondary 4 Inner/Outer Secondary

Cruise is lowest priority and will not work when any other feature is enabled. Different combinations of lights can be used as Cruise by tapping the Sequence wire to +12V while **Only the Cruise** is turned on.

TD Steady will work with or without Level 1, 2, or 3 lights engaged. Different combinations of lights can be used as the TD by tapping the Sequence wire to +12V while Only the TD Steady is turned on.

Scene Steady overrides all other functions.

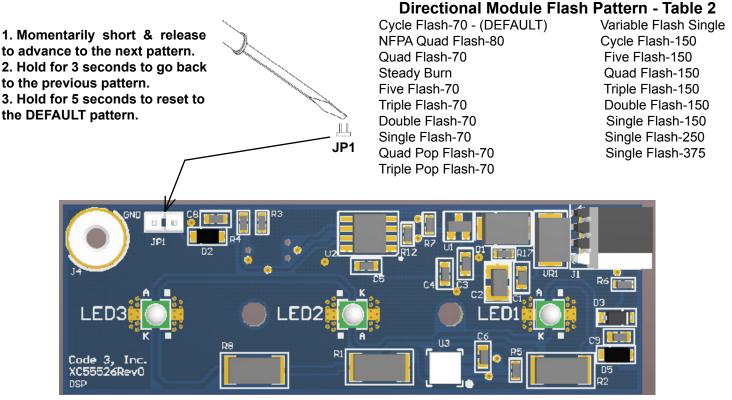
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Flash Pattern Instructions: SuperVisor Flex Independant Flashing Units

Changing Flash Patterns

To change the flash patterns on the LED Light Heads, remove the mounting screws that attach the Cover to gain access to the printed circuit boards inside. Momentarily short and release the pattern change prongs as shown below to change patterns. Carefully replace the cover and fasten cover mounting screws.

Note: Be extremely careful to replace the wiring such that you don't pinch a wire when you replace the cover. Test the unit to be sure that it works as intended.



Torus 3LED PCB Shown Flash Pattern Header for Torus

Troubleshooting

All SuperVisor Flex Bars 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.

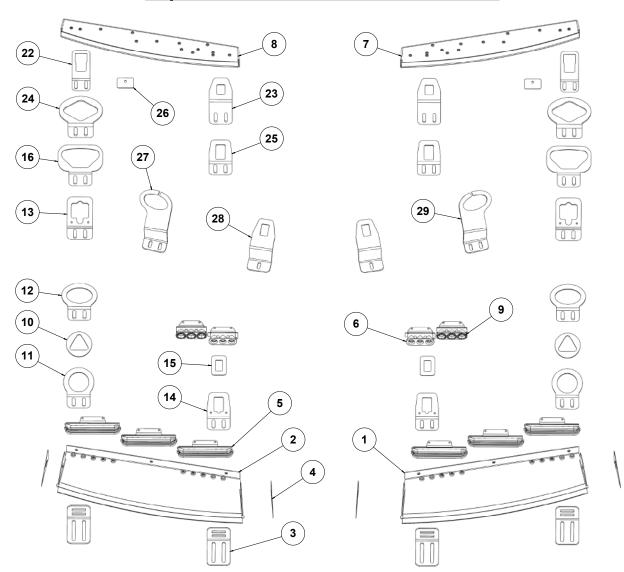
TROUBLESHOOTING GUIDE

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	N/A	Bad power/ground connection.	a. Fix connection.
powered.		b. Defective module.	b. Replace module

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Replacement Parts: SUPERVISOR FLEX



Reference Numb	er Part Description	Part Number	Quantity
1	Outer Panel - Driver Side Sedan Version	T17184	1
2	Outer Panel -Passenger Side Sedan Version	T17185	1
3	Mounting Brkt-Slotted	T15531	4
4	Light Blocker-Sedan Version	T17194	4
5	18LED Multi or 9 LED Single Color Light Head Module	Contact Code 3, Inc for P/N	Up To 6
6	3 LED Torus Take Down	Contact Code 3, Inc for P/N	Up To 4
7	Chassis-Driver Side	T17186	1
8	Chassis-Passenger Side	T17187	1
9	3 LED Torus IF Light Head	Contact Code 3, Inc for P/N	Up To 4
10	Triangular Washer-Outer Mounting Bracket	T15519	2

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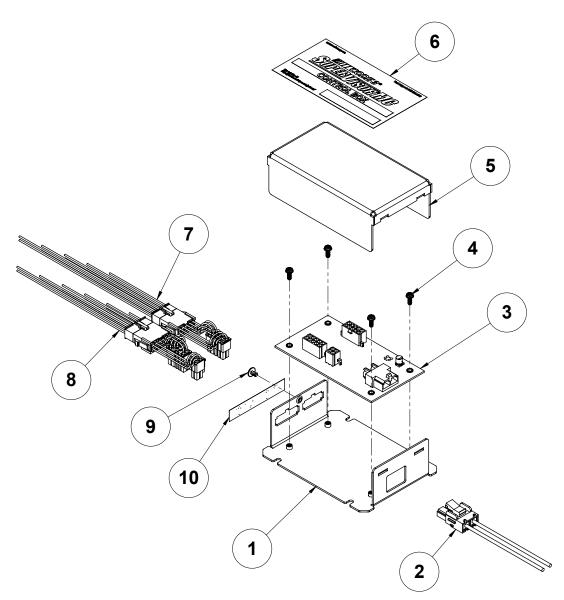
Replacement Parts: SUPERVISOR FLEX - CONTINUED

Reference	<u>Part Description</u> <u>F</u>	Part Number	Quantity
11	Outer Mounting Bracket-Round	T15533	2
12	Outer Mounting Bracket-Oval	T15536	2
13	Outer Mounting Bracket-Rectangular	T15537	2
14	Inner Mounting Brackets	T15526	2
15	Rectangular Washer-Inner Mounting Bracket	T15548	2
16	Outer Mounting Bracket-Tahoe	T15547	2
17	1/4"-20 X 1/2" Long Carriage Bolt Black Zinc - NOT SHOWN	T15541	8
18	1/4"-20 Acorn Nut Black Zinc - NOT SHOWN	T15540	8
19	1/4"-20 X 3/8" Long Phillips Pan Head Screw Black Zinc - NOT SHOWN	T89965	8
20	1/4"Internal Tooth Lock Washer - NOT SHOWN	T06935	16
21	#8 X 1" Lg Phillips Trss Hd Sheet Metal Sc Black Oxide - NOT SHOWN	T15280	10
22	Outer Mounting Bracket - 2015+ Ford F150	T17198	2
23	Inner Mounting Bracket - 2015+ Ford F150	T17199	2
24	Outer Mounting Bracket - 2012+ Dodge Ram	T17182	2
25	Inner Mounting Bracket - 2012+ Dodge Ram	T17181	2
26	Mounting Plate-Outer Mounting Bracket - 2012+ Ford Fusion	220-0772-00	2
27	Passenger Side Outer Mtg Bracket - Dedicated - 2015+ Dodge Charger	220-0774-00	1
28	Inner Mounting Bracket - Dedicated - 2015+ Dodge Charger	220-0776-00	2
29	Driver Side Outer Mtg Bracket - Dedicated - 2015+ Dodge Charger	220-0775-00	1
30	3/16" Black Cap Plugs (Light Blockers - Threaded Holes) NOT SHOWN	T01237	12

Note: Some of the above listed parts may not be available for purchase!

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Replacement Parts: SUPERVISOR FLEX Multi Color CC Box



Reference Nu	mber Part Description	Part Number	Quantity
1	E-Tray - Multi Color SuperVisor	T17164	1
2	Power Ground CableMass State Police Slick Top System	T56637	1
3	PCB Central Controller-Midrange	T57137	1
4	#6-32 X.375 Phil Rd M/S, Stl, Zinc	T04250	4
5	Cover-CC Housing-Multi Color SuperVisor	T17165	1
6	Label-CC Box-Multi Color SuperVisor	T17168	1
7	Input Harness-Multi Color SuperVisor CC Box	T17166	1
8	Output Harness-Multi Color SuperVisor CC Box	T17167	1
9	#8 X .25 SMS Phillips Truss Head Screw-Black Oxided	T89905	1
10	Label-CC Box-Multi Color SuperVisor-INPUT/OUTPUT	T17168	Part of Item 6 Above
			D 10 -f 00

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""" CODE 3 SuperVisor Flex TM For 2012+ Ford PI Utility

Installation Instructions "DRIVER SIDE SHOWN"

Step 1 Remove the plastic covers from the driver and passenger outer sun visor pivot brackets (see Figure 1 below). Remove the (2) small Torx screws from each pivot bracket as shown in Figure 2 below and discard the screws. Pull the visor pivot brackets down from the headliner and carefully allow the sun visors to hang by the vehicle's vanity mirror light wires.

Step 2 Remove the plastic visor clips by removing the single Torx screw holding each clip in place as shown in Figure 3 on page 20 and discard the screws.

Step 3 Slip an Outer Mounting Bracket over the vanity mirror wire noting the difference between the passenger and driver side brackets (See Figure 4 on page 20) and position it up against the vehicle's headliner (see Figure 5 on page 20). Reposition the plastic outer visor pivot brackets over the Outer Mounting Bracket and fasten with (2) of the provided #8 X 1" Phillips Truss Head Black Oxide Screws as shown in Figure 6 on page 20. Leave the screws very loose so that you can position the SuperVisor Flex.

Step 4 Position the inner visor clip brackets to the SuperVisor Inner Mounting Brackets as shown in Figure 7 on page 20 and position them up to the headliner. Thread the supplied #8 X 1" Phillips Truss Head Black Oxide Screw through the vehicle's plastic inner visor clip and into the screw hole in the vehicle's headliner (See Figure 8 on page 20). Leave the screws very loose so that you can position the SuperVisor Flex later.

Step 5 Position the SuperVisor Flex up into position on the mounting flanges of the inner and outer mounting brackets making sure the upper gasket is folded back correctly and locate the unit so that it is in position against the windshield. Thread the supplied 1/4"-20 screws and internal tooth lock washers through the slots in the SuperVisor's Inner and Outer Mounting Brackets and into the SuperVisor's Outer Panel. See Figure 9 on page 20 for proper locations of the screws. Note: The passenger side screw positions are a mirror image of the driver side. Thread all of the screws so that they are up against the mounting brackets but only finger tight and still loose enough to allow for adjustment of the units location.

Step 6 While alternately tightening the visor pivot bracket screws and inner clip bracket screws, continuously adjust the SuperVisor Flex unit so that it stays in the optimal location in relation to the windshield. Continue tightening until the unit is snugly positioned and both gaskets are touching the windshield. Do not over tighten the #8 screws. Tighten the 1/4"-20 screws.

Step 7 Replace the plastic covers on the outer sun visor pivot brackets (see Figure 10 on page 20). Plug the center cable from the driver side into the passenger side connector and route the SuperVisor Flex Cable as desired.



FIGURE 1



FIGURE 2

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Installation Instructions Dedicated Mounting Brackets-2012+ Ford PI Utility Continued:



FIGURE 3

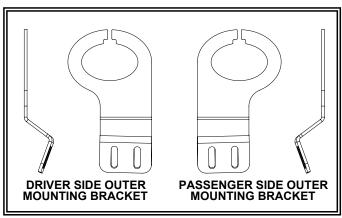


FIGURE 4

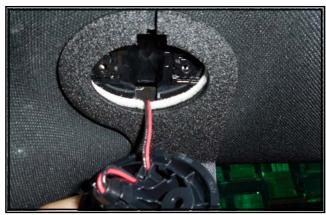


FIGURE 5



FIGURE 6



FIGURE 7



FIGURE 8



FIGURE 9

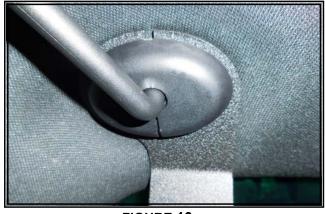


FIGURE 10

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Installation Instructions "PASSENGER SIDE SHOWN"

Step 1 Remove the plastic covers from the driver and passenger outer sun visor pivot brackets (see Figures 1 & 2 on page 22). Remove the (2) small Torx screws from each pivot bracket as shown in Figure 3 on page 22 but leave the screws slightly threaded in the plastic brackets. Pull the visor pivot brackets down from the headliner and carefully allow the sun visors to hang by the vehicle's vanity mirror light wires. Rethread the Torx screws back into the brackets until they are bottomed out.

Step 2 With a thin flat blade screwdriver remove the inner sun visor retaining clips by carefully prying open the small screw cover that is attached to the visor clips (see Figure 4 on page 22). Unscrew the single Torx screw holding each clip in place as shown in Figure 5 on page 22. Remove and discard the screws.

Step 3 Attach the inner visor clip brackets to the SuperVisor Inner Mounting Brackets as shown in Figure 6 on page 22 and position them up to the headliner as shown in Figure 7 on page 22. Thread the supplied #8 X 1" Phillips Truss Head Black Oxide Screw up through the vehicle's plastic inner visor clip and into the screw hole in the vehicle's headliner. Leave the screws very loose so that you can position the SuperVisor Flex later.

Step 4 Slip an Outer Mounting Bracket over the vanity mirror wire noting the difference between the passenger and driver side brackets (See Figure 8 on page 22) and position it up against the vehicle's headliner see Figure 9 on page 23. Position the plastic outer visor pivot brackets up over the Outer Mounting Bracket and screw the (2) Torx screws back into their individual holes as shown in Figure 10 on page 23. Leave the screws very loose so that you can position the SuperVisor Flex.

Step 5 Position the SuperVisor Flex up into position on the mounting flanges of the inner and outer mounting brackets making sure the upper gasket is folded back correctly and locate the unit so that it is in position against the windshield. Thread the supplied 1/4"-20 screws and internal tooth lock washers through the slots in the SuperVisor's Inner and Outer Mounting Brackets and into the SuperVisor's Outer Panel see Figure 11 on page 23 for proper locations of the screws. Thread all of the screws so they are up against the mounting brackets but only finger tight and still loose enough to allow for adjustment of the units location.

Step 6 While alternately tightening the visor pivot bracket screws and inner clip bracket screws, continuously adjust the SuperVisor Flex unit so that it stays in the optimal location in relation to the windshield. Continue tightening until the unit is snugly positioned and both gaskets are touching the windshield. Do not over tighten the screws.

Step 7 Replace the plastic covers on the outer sun visor pivot brackets (see Figure 12 on page 23). Plug the center cable from the driver side into the passenger side connector and route the SuperVisor Flex Cable as desired.

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Installation Instructions Dedicated Mounting Brackets-2015+ Dodge Charger Continued:



FIGURE 1



FIGURE 2



FIGURE 3



FIGURE 4



FIGURE 5



FIGURE 6



FIGURE 7

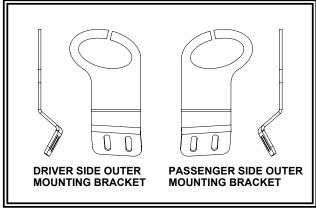


FIGURE 8

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Installation Instructions Dedicated Mounting Brackets-2015+ Dodge Charger Continued:



FIGURE 9



FIGURE 10



FIGURE 11-PASSENGER SIDE SHOWN



FIGURE 12

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Installation Instructions Dedicated Mtg Brackets SuperVisor FlexTM For 2015+ Chevy Tahoe

Installation Instructions "DRIVER SIDE SHOWN"

Step 1 Remove the plastic covers from the driver and passenger outer sun visor pivot brackets as shown in Figure 1 on page 25. Remove the (3) Torx screws from each pivot bracket as shown in Figure 2 on page 25. Pull the visor pivot brackets down from the headliner & carefully disconnect the vehicle's vanity mirror light wire connectors. Thread the screws all the way back into the plastic pivot bracket for easier assembly later.

Step 2 Pry open the small cover on the sun visor retaining clip with a small flat bladed screwdriver to gain access to the sun visor retaining clip screw (see Figure 3 on page 25). Remove the single Torx screw that holds each clip in place as shown in Figure 4 on page 25. Note: The plastic visor clips are held to the headliner fabric with stamped sheet metal clips that are located above the headliner fabric (See Figure 5 on page 25). Carefully pull & angle the plastic clips back and forth from side to side until the stamped sheet metal clips release the plastic clips from the headliner. Remove the stamped clips and discard them so they don't interfere with the Unit's Installation or cause rattles after the installation. Thread the Torx screw back into the plastic clip just slightly for easier assembly later.

Step 3 While the headliner is loose, position a provided 3/8" thick rectangular spacer above the headliner between the headliner and the inner roof sheet metal of the vehicle (The spacer is shown in Figure 6 on page 25). Line up the rectangular hole in the spacer with the rectangular hole in the headliner where the plastic visor clip was & temporarily tape the spacer in place to the headliner with masking tape so it can't move while you are completing the rest of the install. This spacer will give the Inner Mounting Brackets something to tighten up against when you fasten the Inner Mounting Brackets.

Step 4 Position the inner visor clip brackets into the rectangular hole in the SuperVisor Inner Mounting Brackets as shown in Figure 7 on page 25, then position them up to the headliner. Push the plastic visor clip up into the rectangular hole in the headliner and into the rectangular hole in the spacer until you can feel it bottom out against the vehicle's inner sheet metal roof. Remove any excess masking tape from step 3 and thread the small Torx screw back into the screw hole in the vehicle's headliner (See Figure 8 on page 25). Leave the screws very loose so that you can position the SuperVisor Flex later.

Step 5 Position an Outer Mounting Bracket onto the plastic visor pivot bracket noting the difference between the passenger and driver side brackets (Driver Side is shown see Figure 9 on page 26. Plug the vehicle's vanity mirror light wire connectors back together, position the mounting bracket up against the vehicle's headliner & fasten the Mounting Bracket & the visor pivot bracket to the headliner by tightening the (3) Torx screws as shown in Figure 10 on page 26. Leave the screws very loose so that you can position the SuperVisor Flex.

Step 6 Position the SuperVisor Flex up into position on the mounting flanges of the inner and outer mounting brackets making sure the upper gasket is folded back correctly and locate the unit so that it is in position against the windshield. Thread the supplied 1/4"-20 screws and internal tooth lock washers through the slots in the SuperVisor's Inner and Outer Mounting Brackets and into the SuperVisor's Outer Panel (See Figure 11 on page 26 for proper locations of the screws). **Note: The passenger side screw positions are a mirror image of the driver side.** Thread all of the 1/4"-20 screws so that they are up against the mounting brackets but only finger tight and still loose enough to allow for adjustment of the units location.

Step 7 While alternately tightening the visor pivot bracket screws and inner clip bracket screws, continuously adjust the SuperVisor Flex unit so that it stays in the optimal location in relation to the windshield. Continue tightening until the unit is snugly positioned and both gaskets are touching the windshield. Do not over tighten the #8 screws. Tighten the 1/4"-20 screws.

Step 8 Replace the plastic covers on the outer sun visor pivot brackets (see Figure 12 on page 26). Also snap the plastic inner visor clip covers closed. Plug the center cable from the driver side into the passenger side connector and route the SuperVisor Flex Cable as desired.

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Installation Instructions Dedicated Mounting Brackets-2015+ Chevy Tahoe Continued:

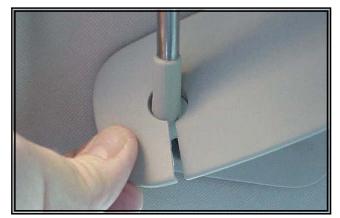


FIGURE 1

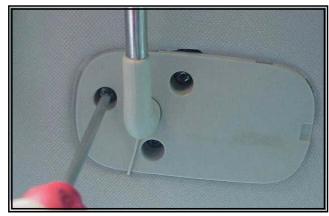


FIGURE 2



FIGURE 3

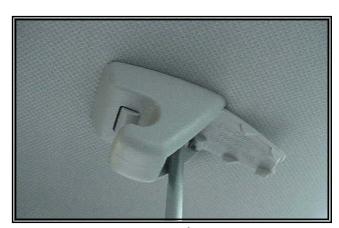


FIGURE 4



FIGURE 5

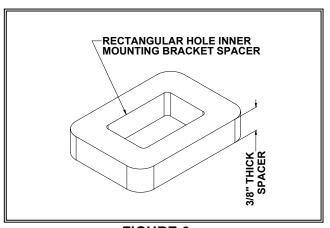


FIGURE 6



FIGURE 7



FIGURE 8 Page 25 of 32

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Installation Instructions Dedicated Mounting Brackets-2015+ Chevy Tahoe Continued:



FIGURE 9



FIGURE 10



FIGURE 11



FIGURE 12

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Installation Instructions



Special Outer Mounting Brackets SuperVisor Flex TM For 2012+ Ford Fusion

Special Outer Mtg Bkt Instructions - 2012+ Ford Fusion "PASSENGER SIDE SHOWN"

- Step-1 Carefully remove the small plastic rectangular cover on the vehicle's plastic visor pivot.
- Step-2 Remove the black stamped sheet metal retention clip holding the vehicle's visor pivot.
- **Step-3** Pull the plastic visor pivot down out of the rectangular hole in the vehicle's headliner along with the wire for the visor's vanity mirror light.
- **Step-4** Separate the connector for the visors vanity mirror light. There is a small retention tab you have to squeeze to separate the connector (See Figure 1 on page 28).
- **Step-5** Slip a provided 10-24 J Clip onto the vehicles sheet metal over the square hole in the vehicle's sheet metal (See Figures 2, 3, & 4 on page 28).
- **Step-6** Slip the Ford F150/Ford Fusion Mounting Bracket over the pivot bracket and position the assembly up into the visor pivot hole in the headliner (See Figure 5 on page 28).
- **Step-7** Swing the assembly up into position capturing the bracket between the plastic visor pivot and the headliner. It is a tight fit, so you have to work the bracket and visor pivot to get it into position (See Figure 6 on page 28).
- **Step-8** Once the bracket is in position, insert a supplied #10-24 X 7/8" Machine Screw into the hole in the provided Rectangular Bracket/Washer. Position it up into location over the visor pivot and the Ford F150/Ford Fusion, then thread the screw into the J Clip you previously installed in Step 5 (See Figures 7 & 8 on page 28).
- Step-9 Install the SuperVisor Flex Inner Mounting Brackets starting with Step 2 on page 5.
- **Step-10** Locate the SuperVisor Flex Unit on the Inner Mounting Bracket approximately as shown in Figure 9 on page 29 using a slotted mounting bracket and hardware from the Kit. **Note: Only one screw is shown in the picture in the bottom of the unit but (2) should be used.**
- **Step-11** Locate the SuperVisor Flex on the outer mounting bracket approximately as shown in Figure 10 on page 29 using a slotted mounting bracket and hardware from the kit. **Note: only one screw is shown in the picture** in the bottom of the unit but (2) should be used.
- Step-12 Adjust to desired fit and tighten all hardware (See Figure 11 on page 29).

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Installation Instructions Dedicated Mounting Brackets-2012+ Ford Fusion Continued:



FIGURE 1



FIGURE 2



FIGURE 3



FIGURE 4



FIGURE 5

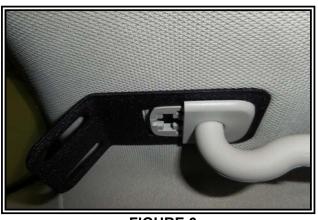


FIGURE 6



FIGURE 7



FIGURE 8

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Installation Instructions Dedicated Mounting Brackets-2012+ Ford Fusion Continued:





FIGURE 9 FIGURE 10



FIGURE 11

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NOTES:

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NOTES:

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