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Safety First

This document provides all the necessary information to allow your Whelen product to be properly and safely installed. Before beginning the installation and/or operation of your new product, the installation technician and operator must read this manual completely. Important information is contained herein that could prevent serious injury or damage.

- Proper installation of this product requires the installer to have a good understanding of automotive electronics, systems and procedures.
- If mounting this product requires drilling holes, the installer MUST be sure that no vehicle components or
 other vital parts could be damaged by the drilling process. Check both sides of the mounting surface
 before drilling begins. Also de-burr any holes and remove any metal shards or remnants. Install grommets
 into all wire passage holes.
- If this manual states that this product may be mounted with suction cups, magnets, tape or Velcro®, clean the mounting surface with a 50/50 mix of isopropyl alcohol and water and dry thoroughly.
- Do not install this product or route any wires in the deployment area of your air bag. Equipment mounted
 or located in the air bag deployment area will damage or reduce the effectiveness of the air bag, or
 become a projectile that could cause serious personal injury or death. Refer to your vehicle owner's
 manual for the air bag deployment area. The User/Installer assumes full responsibility to determine proper
 mounting location, based on providing ultimate safety to all passengers inside the vehicle.
- For this product to operate at optimum efficiency, a good electrical connection to chassis ground must be made. The recommended procedure requires the product ground wire to be connected directly to the NEGATIVE (-) battery post.
- If this product uses a remote device to activate or control this product, make sure that this control is located in an area that allows both the vehicle and the control to be operated safely in any driving condition.
- Do not attempt to activate or control this device in a hazardous driving situation.
- It is recommended that these instructions be stored in a safe place and referred to when performing maintenance and/or reinstallation of this product.
- FAILURE TO FOLLOW THESE SAFETY PRECAUTIONS AND INSTRUCTIONS COULD RESULT IN DAMAGE TO THE PRODUCT OR VEHICLE AND/OR SERIOUS INJURY TO YOU AND YOUR PASSENGERS!

For warranty information regarding this product, visit www.whelen.com/warranty

The CSP690 Strobe Power Supply, like all Whelen components, can be installed in many different types of vehicles. The guidelines for the installation of this product are written so that no matter what vehicle is being used, the installation and operation will be simple.

Selecting a Mounting Location:

The most common choice for a mounting area would be a trunk or similar compartment. However, due to the wide variety of vehicles an CSP690 can be installed, this is not always possible. The following guidelines will help the installer select an acceptable alternative:

- A) This unit should be mounted on a metal surface to aid heat dissipation. Be sure that this surface is not one that either generates or is exposed to excessive heat during normal operation of the vehicle.
- B) Do not select a location where the power supply will be exposed to potential damage from any unsecured or loose equipment in the vehicle.
- C) Be sure the area selected will not allow the unit to be exposed to water.
- D) When routing the power supply's wires, it is important to choose a path that will keep these wires away from excessive heat and from any vehicle equipment that could compromise the integrity of the wires (ex. trunk lids, door jams, etc.).
- **E)** When the best mounting location has been determined, securely fasten the CSPS690 to it's mounting surface using the supplied hardware.

WARNING! The Strobe Light Power Supply is a high voltage device. Do not touch or remove tube assembly in strobe light head assemblies while in operation. Wait 10 minutes after disconnecting the unit from its power source before starting work or troubleshooting on power supply or system.

Caution: Permanent mounting of this product will require drilling. It is absolutely necessary to make sure that no other vehicle components could be damaged by this process. Check both sides of the mounting surface before starting. If damage is likely, select a different mounting location.

- Position the power supply in its proposed mounting location to ensure that it fits properly. With the unit in place, insert an awl or other suitable tool into the mounting screw area of the power supply and scribe the areas that are to be drilled.
- Remove the CSP690 from its mounting area and, using a drill bit sized for a #8 Phillips pan head sheet metal screw, drill a hole in each of the areas scribed in the previous step.
- Return the unit to its mounting location and using the supplied sheet metal screws, mount the power supply onto its mounting surface. NOTE: the shorter screws go to the back of the unit.

Wiring the CSP690:

 Locate the 3-position Power Connector included with your CSP690 and plug it into the port indicated in Fig. 1. Extend the BLACK and RED wires from the Power Connector towards the battery.

WARNING! All customer supplied wires that connect to the positive terminal of the battery must be sized to supply at least 125% of the maximum operating current and <u>FUSED</u> at the battery to carry that load. DO NOT USE CIRCUIT BREAKERS WITH THIS PRODUCT!

Connect the RED wire to a fuse block (customer supplied) and then to the POSITIVE terminal on the battery.

Note: Although a 15 Amp fuse (customer supplied) is required to be used in the fuse block, do not install the fuse until <u>all</u> of the wire connections are completed.

- 3. Connect the BLACK wire to the factory chassis ground adjacent to the battery.
- Refer to Fig. 2 for wiring information for the Control Connector and for the Pattern Selection Connector.
- 5. As indicated in Fig. 2, there is a provision in the Power Connector for a wire (VIOLET) to activate Hi/Low Power strobe operation. If this feature is desired, locate the VIOLET wire included with your power supply and, with the Power Connector disconnected from the power supply, insert the pinned end of the VIOLET wire into position 3 of the Power Connector. Refer to Fig. 2 for wiring information.

