

WHELEN[®]

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Installation Guide: Model S30HA*P Strobe Light and HA239 Strobe Light with cable

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.

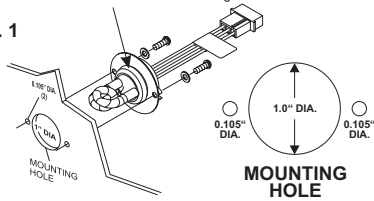
- **Proper installation of this product requires the installer to have a good understanding of automotive electronics, systems and procedures.**
- **If mounting this product requires drilling holes, the installer MUST be sure that no vehicle components or other vital parts could be damaged by the drilling process. Check both sides of the mounting surface before drilling begins. Also de-burr the 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.**
- **If this product contains strobe light(s), halogen light(s) or high-intensity LEDs, do not stare directly into these lights at a close distance. Momentary blindness and/or eye damage could result.**
- **If this product contains strobe light(s), halogen light(s) or high-intensity LEDs, use only soap and water to clean the lamp lens. Use of other chemicals could result in premature lens cracking (crazing) and discoloration. Lenses in this condition have significantly reduced effectiveness and should be replaced immediately. Inspect and operate this product regularly to confirm its proper operation and mounting condition. Do not use a pressure washer to clean this product.**
- **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

IMPORTANT WARNING!
USE OF THIS PRODUCT WITH A POWER SUPPLY OTHER THAN THOSE SHOWN ON PAGE 2 COULD CAUSE DAMAGE TO YOUR COMPOSITE HOUSING.

Apply a drop of liquid soap to this section to allow for easier initial installation of the thermal disc, as well as subsequent installation into the reflector housing.

FIG. 1



Top view of an automotive "composite" headlight or taillight housing assembly

Mounted position of the thermal disc

Focal point of reflector is the filament location of the lamp

FIG. 2

Insert the strobe lamp/thermal disc from the back or bottom of the headlight or rear stoplight housing, as close as possible to the focal point

ITEM	MODEL AND DESCRIPTION	QTY.	PART NO.
1.	S30HARP FLASH TUBE ASSEMBLY, RED	1	36-0363017-R0
	S30HACP FLASH TUBE ASSEMBLY, CLEAR	1	36-0363017-C0
	S30HABP FLASH TUBE ASSEMBLY, BLUE	1	36-0363017-B0
	S30HAAP FLASH TUBE ASSEMBLY, AMBER	1	36-0363017-A0
	S30HAVP FLASH TUBE ASSEMBLY, VIOLET	1	36-0363017-V0
	S30HAGP FLASH TUBE ASSEMBLY, GREEN	1	36-0363017-G0
	THERMAL DISC	1	07-742741-000
2.	5 FT. EXTENSION CABLE	-	01-0440624-05
	10 FT. EXTENSION CABLE	-	01-0440624-10
	15 FT. EXTENSION CABLE	-	01-0440624-15
	20 FT. EXTENSION CABLE	-	01-0440624-20
	25 FT. EXTENSION CABLE	-	01-0440624-25
	30 FT. EXTENSION CABLE	-	01-0440624-30

INSTALLATION OF A STROBE LIGHT INTO A COMPOSITE AUTOMOTIVE HEADLIGHT OR TAILLIGHT ASSEMBLY:

- Select the mounting location for the strobe light head, keeping in mind the following:
 - The strobe light will share the same reflector as the headlight, brake light, or signal light. Make sure that the strobe light does not interfere with the proper operation of these lights (Fig. 2).
 - There must be a minimum of 1" of space between the strobe light and the lens.
 - The strobe light must not be installed above the horizontal centerline of the reflector.
 - The strobe light must not be installed above any OEM-supplied light.
- Remove the reflector assembly from the vehicle. Choose a surface in the rear or bottom of the housing which is as flat as possible. Using a hole saw, cut a 1" hole (+0.030"/-0.000" tolerance) in the housing as shown in Fig. 1. Be sure to de-burr this hole completely. Mount the thermal disc onto the strobe light assembly with the disc holes aligned with the lamp ears as shown.
- Using a twisting motion, insert the lamp/thermal disc assembly into the reflector housing until it snaps into its proper position. Do not force the lamp into position. Mark the location for the two mounting holes (0.105" dia.). Remove the lamp assembly and drill the holes in this area.
- Re-install the lamp ass'y and using the hardware provided, secure the lamp to the reflector assembly as shown.

WARNING: High Voltage on glass tube. This strobe lamp unit is an open flash tube with no protective lens. Proper installation is required. Do not touch the strobe tube assembly while in operation.

IMPORTANT NOTE: If the S30HA_P is being used in an area previously occupied by an S30HA light assembly, it is important for the installation technician to seal the mounting holes used by the previous assembly with RTV or other suitable material!

CABLE INFORMATION

On each end of the optional 3-conductor power cable is a shield wire. Cut this wire on the end connected to the strobe light head assembly flush with

the cable jacket. The shield wire on the cable end to be connected to the strobe power supply is to be grounded to the vehicle chassis when the radio or other communication system interference is a problem. If this shield wire is not grounded, cut it flush with cable jacket. KEEP THIS WIRE AS SHORT AS POSSIBLE WHEN GROUNDING.

NOTE: For radio frequency interference protection, it is advisable to ground the shield wire on the power supply end.

NOTE: Whelen strobe light systems are designed to interface with the Whelen UPS strobe light power supply. Detailed wiring, switching and installation instructions are enclosed with the UPS unit.

WARNING: When connecting the AMP connector housing to the AMP pins and sockets located on the 3-conductor cable, OBSERVE THE COLOR OF THE WIRES TO BE CONNECTED TO PIN NUMBER POSITIONS as indicated in Fig. 3.

WARNING: The Strobe Light Power Supply is a high voltage device. Do not remove strobe tubes or dismantle strobe light head assembly while in operation. WAIT 10 MINUTES after turning off power before starting work or any trouble shooting.

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 FUSED at the battery to carry that load. DO NOT USE CIRCUIT BREAKERS WITH THIS PRODUCT!

WARNING! Automotive composite housings use low-temp plastic in their construction. The use of strobe power supplies in excess of 10 watts per outlet, may cause the housings to melt. Use the supplied thermal disc around each HA239 as shown to conduct the heat away from the vehicle reflector housing.

* When using the HA239 with the SPS660, it is important to follow these connectivity guidelines:

- When using only 2 strobe lights, ONLY USE outlets 1 & 2!
- When using only 4 strobe lights, ONLY USE outlets 3, 4, 5 & 6!

Modification of your vehicle's reflector housings may void your vehicle warranty. Check with dealer/supplier before installation.

