

ROUTE 145, WINTHROP ROAD
CHESTER, CONNECTICUT 06412-0684
TELEPHONE: (860) 526-9504
FAX: (860) 526-4078

The S360D can be configured so that the operator can control Hi/Lo power operation manually. This requires that a 3-position / center off switch, such as the PSW-3, be introduced into the operating circuit of the S360D. Also, dip switch configuration may need to be altered, depending on their existing position. This manual will outline the necessary procedure on not only how to wire the PSW-3 for this function, but also how to configure the S360D's dip switches so that this feature is enabled.

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

Dip Switch Configuration...

1. Locate the clamp ring securing the optic dome to the base. Remove the clamp ring screw, clamp ring and optic dome from the base. (Fig. 1)
2. Remove both the upper reflector and inner optic lens.
3. Lift the strobe assembly away from the base and disconnect this assembly by unplugging it from the strobe power supply circuit board.
4. Locate and remove the three phillips head screws, that attach the circuit board to the base.
5. Carefully remove the circuit board from the base.
6. Locate the dip switch bank on the component side of the circuit board. The dip switch bank is comprised of (4), "rocker style" switches. Using a pencil or similar tool, move all of these switches into their "OFF" position.

NOTE: A switch is in its off position when the end near the "OFF" side of the bank is down and the end near the numbered side of the bank is up.

Hi/Lo Power Control Wire...

When all of the dip switches are in their "OFF" position the S360D is now able to operate in either Hi or Lo power mode. The next section will outline the power modes and their control via the violet wire.

1. Locate the three position connector that connects the circuit board to the harness cable.
2. Locate the "looped" violet wire. Cut this wire where it re-enters the connector at pin 2. (Fig. 1)
3. Using similar gage (size) wire, extend the violet wire out through the bottom of the base and to the PSW-3.

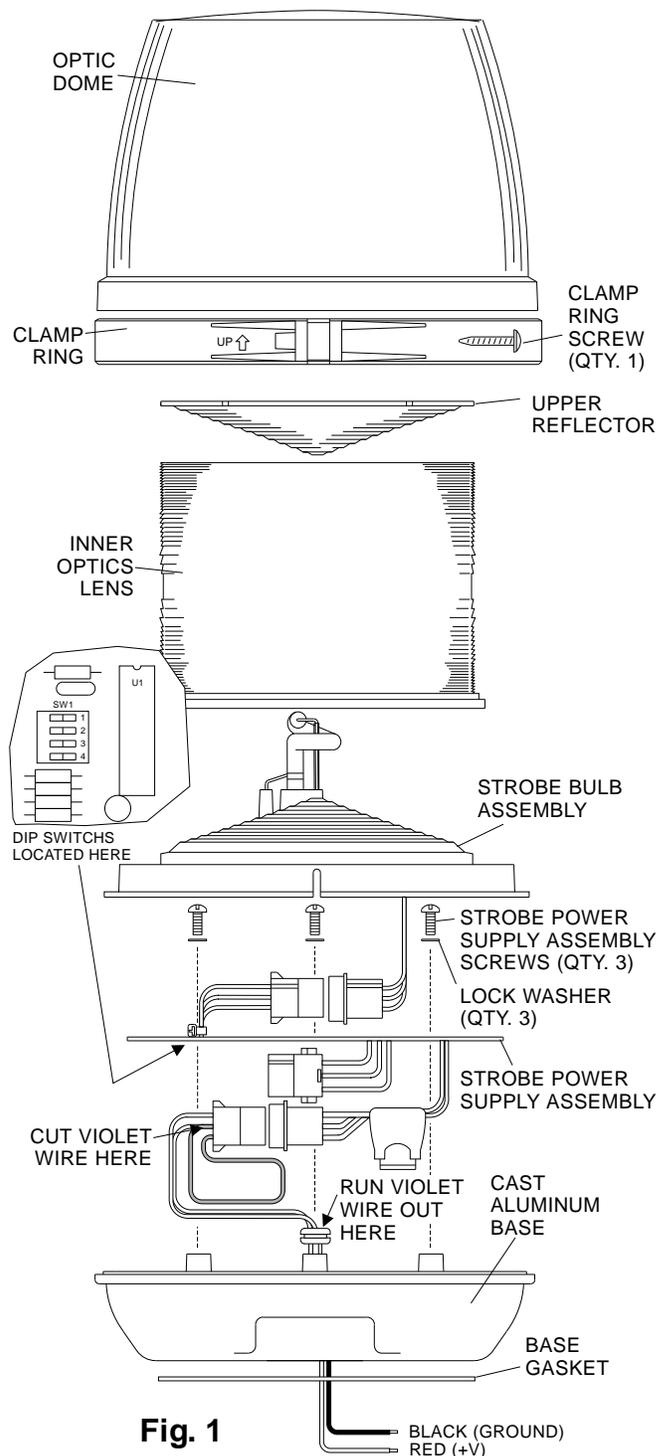


Fig. 1

Reassembling the S360D...

1. Reposition the circuit board onto the base, making sure that the wire slot on the board is aligned with the alignment tab on the base. (Fig. 2)
2. Mount the circuit board onto the base using its previously removed mounting screws. Make sure that the 3-position plug that connects to the strobe bulb assembly is not trapped under the circuit board after the board has been mounted.
3. Plug the 3-position plug into the strobe bulb assembly plug. Make sure that the wires from under the circuit board are routed through the wide slot in the circuit board shown in Fig. 2.
4. Re-position the strobe bulb assembly onto the base. Make sure that the wire notch in the assembly is positioned around the base alignment tab
5. Return the upper and inner optic lens to their mounting positions on top of the strobe bulb assembly. With these in position, re-mount the optic dome onto the base and secure it with the clamp ring and clamp ring screw.

Wiring the S360D with the PSW-3...

1. Extend the RED, BLACK and VIOLET wires from the S360D to the mounting location of the PSW-3.
2. Connect the BLACK wire from the S360D to the smaller gauge BLACK wire from the PSW-3.
3. Connect the RED wire from the S360D to the smaller gauge RED wire (without the fuse holder) from the PSW-3.
4. Connect the VIOLET wire from the S360D to the VIOLET wire from the PSW-3.
5. Extend the larger gauge BLACK wire from the PSW-3 to the vehicle's chassis ground.
6. Extend the larger RED wire (with the fuse holder) to the positive battery terminal.

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 the load.

After all of the connections are completed, test the operation of the S360D. The S360D is activated as follows:

PSW3 switch in "up" position = S360D is operating in Hi power mode.

PSW3 switch in "center" position = S360D is off

PSW3 switch in "down" position = S360D is operating in Lo power mode.

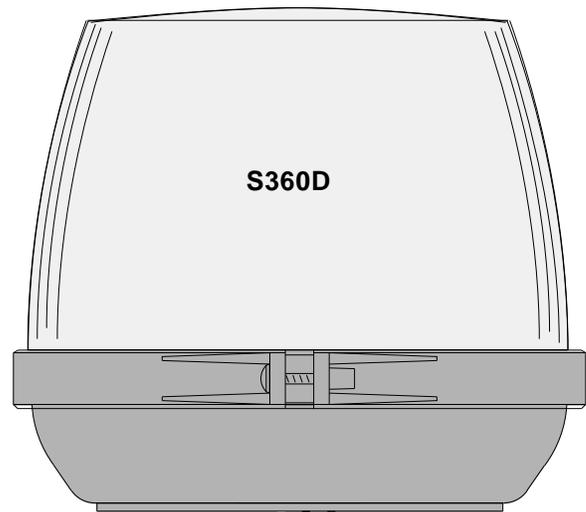
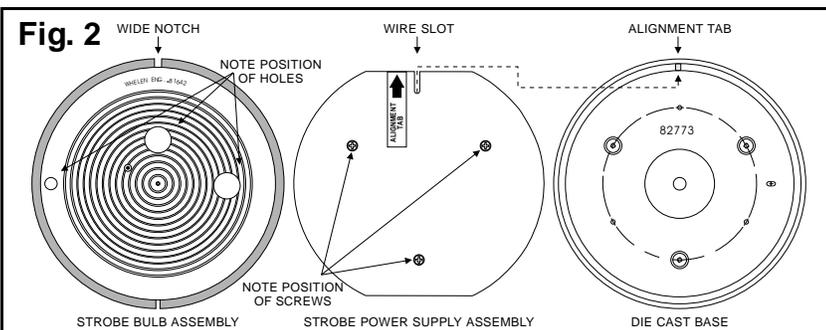
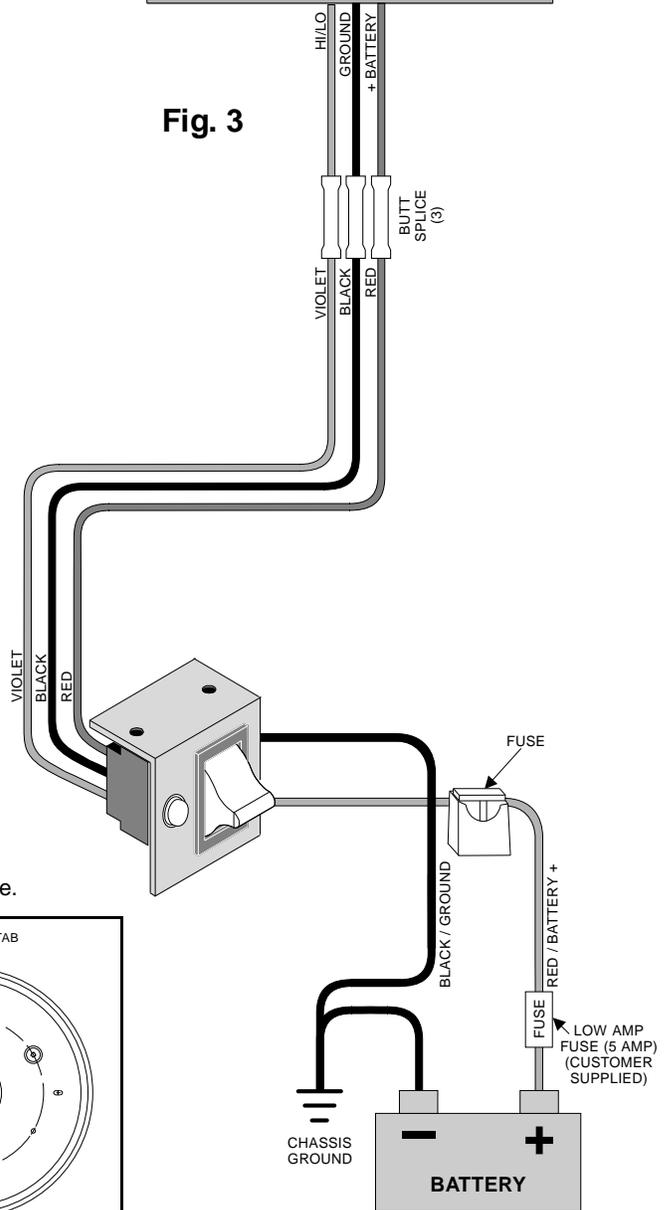


Fig. 3



WHELEN[®]

ENGINEERING COMPANY INC.

Route 145, Winthrop Road,
Chester, Connecticut 06412

Phone: (860) 526-9504

Fax: (860) 526-4078

Internet: www.whelen.com

Sales e-mail: autosale@whelen.com

Canadian Sales e-mail: autocan@whelen.com

Customer Service e-mail: custserv@whelen.com

Installation Guide PSW-3 and S360D Strobe Beacon

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 product is mounted with 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 owners 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 (this does not include products that use cigar power cords).**
- **If this product uses a remote device for activation or control, make sure that this device is located in an area that allows both the vehicle and the device to be operated safely in any driving condition.**
- **Do not attempt to activate or control this device in a hazardous driving situation.**
- **This product contains either strobe light(s), halogen light(s), high-intensity LEDs or a combination of these lights. Do not stare directly into these lights. Momentary blindness and/or eye damage could result.**
- **Use only soap and water to clean the outer 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!**

The S360D can be configured so that the operator can control Hi/Lo power operation manually. This requires that a 3-position / center off switch, such as the PSW-3, be introduced into the operating circuit of the S360D. Also, dip switch configuration may need to be altered, depending on their existing position. This manual will outline the necessary procedure on not only how to wire the PSW-3 for this function, but also how to configure the S360D's dip switches so that this feature is enabled.

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

Dip Switch Configuration...

1. Locate the clamp ring securing the optic dome to the base. Remove the clamp ring screw, clamp ring and optic dome from the base. (Fig. 1)
2. Remove both the upper reflector and inner optic lens.
3. Lift the strobe assembly away from the base and disconnect this assembly by unplugging it from the strobe power supply circuit board.
4. Locate and remove the three phillips head screws, that attach the circuit board to the base.
5. Carefully remove the circuit board from the base.
6. Locate the dip switch bank on the component side of the circuit board. The dip switch bank is comprised of (4), "rocker style" switches. Using a pencil or similar tool, move all of these switches into their "OFF" position.

Note: A switch is in its off position when the end near the "OFF" side of the bank is down and the end near the numbered side of the bank is up.

Hi/Lo Power Control Wire...

When all of the dip switches are in their "OFF" position the S360D is now able to operate in either Hi or Lo power mode. The next section will outline the power modes and their control via the violet wire.

1. Locate the three position connector that connects the circuit board to the harness cable.
2. Locate the "looped" violet wire. Cut this wire where it enters the connector at pin 2. (Fig. 1)
3. Using similar gage (size) wire, extend the violet wire out through the bottom of the base and to the PSW-3.

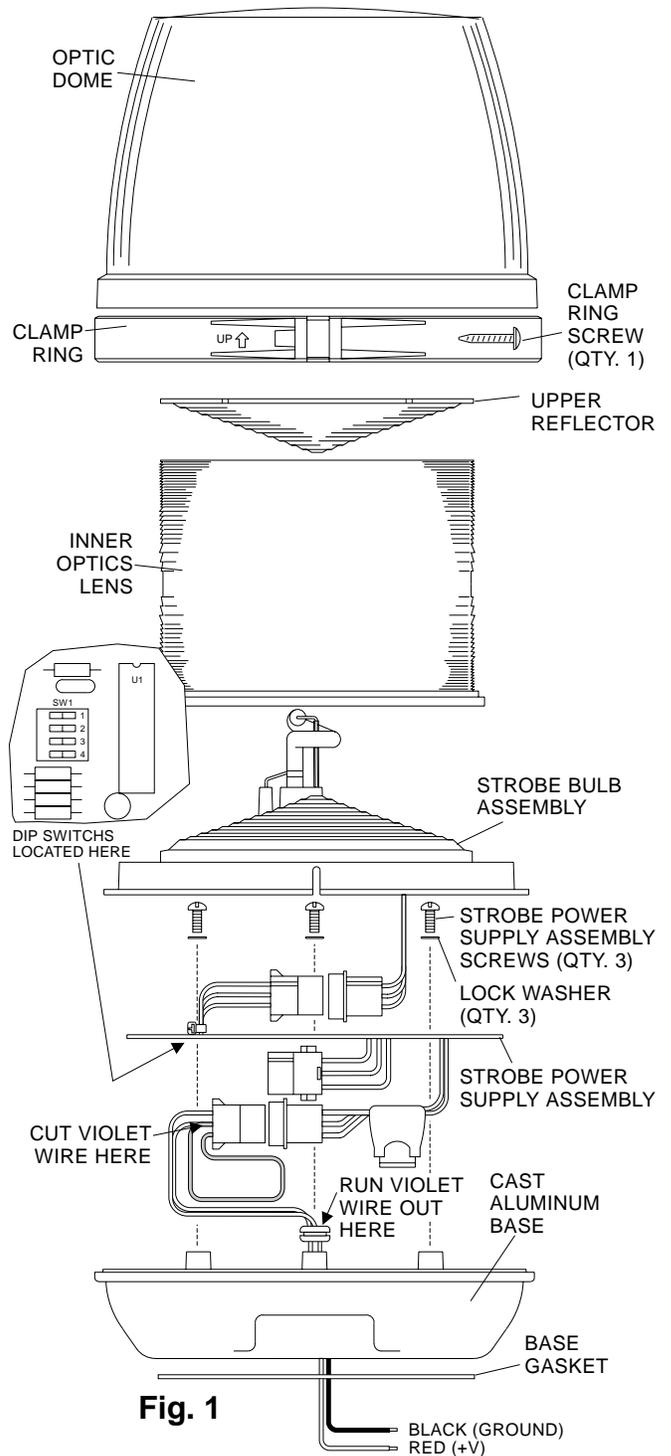


Fig. 1

Reassembling the S360D...

1. Reposition the circuit board onto the base, making sure that the wire slot on the board is aligned with the alignment tab on the base (Fig. 2).
2. Mount the circuit board onto the base using its previously removed mounting screws. Make sure that the 3-position plug that connects to the strobe bulb assembly is not trapped under the circuit board after the board has been mounted.
3. Plug the 3-position plug into the strobe bulb assembly plug. Make sure that the wires from under the circuit board are routed through the wide slot in the circuit board shown in Fig. 2.
4. Re-position the strobe bulb assembly onto the base. Make sure that the wire notch in the assembly is positioned around the base alignment tab
5. Return the upper and inner optic lens to their mounting positions on top of the strobe bulb assembly. With these in position, re-mount the optic dome onto the base and secure it with the clamp ring and clamp ring screw.

Wiring the S360D with the PSW-3...

1. Extend the RED, BLACK and VIOLET wires from the S360D to the mounting location of the PSW-3.
2. Connect the BLACK wire from the S360D to the smaller gauge BLACK wire from the PSW-3.
3. Connect the RED wire from the S360D to the smaller gauge RED wire (without the fuse holder) from the PSW-3.
4. Connect the VIOLET wire from the S360D to the VIOLET wire from the PSW-3.
5. Extend the larger gauge BLACK wire from the PSW-3 to the vehicle's chassis ground.
6. Extend the larger RED wire (with the fuse holder) to the positive battery terminal.

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 the load.

After all of the connections are completed, test the operation of the S360D. The S360D is activated as follows:

PSW3 switch in "up" position = S360D is operating in Hi power mode.

PSW3 switch in "center" position = S360D is off

PSW3 switch in "down" position = S360D is operating in Lo power mode.

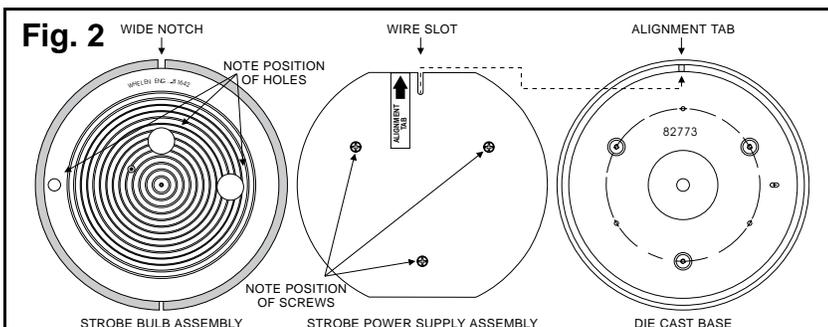


Fig. 3

