

WHELEN[®]

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Installation Guide:
Pioneer™ Series LED Floodlight
115 Volts AC
Pole Mount (Flood/Flood)



Warnings to Installers

Whelen's emergency vehicle warning devices must be properly mounted and wired in order to be effective and safe. Read and follow all of Whelen's written instructions when installing or using this device. Emergency vehicles are often operated under high speed stressful conditions which must be accounted for when installing all emergency warning devices. Controls should be placed within convenient reach of the operator so that they can operate the system without taking their eyes off the roadway. Emergency warning devices can 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 vehicle damage, including fire. Many electronic devices used in emergency vehicles can create or be affected by electromagnetic interference. Therefore, after installation of any electronic device it is necessary to test all electronic equipment simultaneously to insure that they operate free of interference from other components within the vehicle. Never power emergency warning equipment from the same circuit or share the same grounding circuit with radio communication equipment. 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 air bags (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. Whelen assumes no liability for any loss resulting from the use of this warning device. 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.

Warnings to Users

Whelen's emergency vehicle warning devices are intended to alert other operators and pedestrians to the presence and operation of emergency vehicles and personnel. However, the use of this or any other Whelen emergency warning device does not guarantee that you will have the right-of-way or that other drivers and pedestrians will properly heed an emergency warning signal. Never assume you have the right-of-way. It is your responsibility to proceed safely before entering an intersection, driving against traffic, responding at a high rate of speed, or walking on or around traffic lanes. Emergency vehicle warning devices should be tested on a daily basis to ensure that they operate properly. When in actual use, the operator must ensure that both visual and audible warnings are not blocked by vehicle components (i.e.: open trunks or compartment doors), people, vehicles, or other obstructions. It is the user's responsibility to understand and obey all laws regarding emergency warning devices. The user should be familiar with all applicable laws and regulations prior to the use of any emergency vehicle warning device. Whelen's audible warning devices are designed to project sound in a forward direction away from the vehicle occupants. However, because sustained periodic exposure to loud sounds can cause hearing loss, all audible warning devices should be installed and operated in accordance with the standards established by the National Fire Protection Association.

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.**
- **Whelen Engineering requires the use of waterproof butt splices and/or connectors if that connector could be exposed to moisture.**
- **Failure to use specified installation parts and/or hardware will void the product warranty.**
- **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 (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!**

Mounting...

1. Remove the 2 screws (#15) securing the switch assembly to the switch box (#16). Separate this assembly from the switch box to gain access to the input wires. **Note: These components are shipped loose. The above procedure is provided as a reference.**
2. Route the input cable (customer supplied) into the switch box through one of two styles:
Style A - Route the input cable up through the Adjustment Knuckle (#9) and into the switch box.
Style B - Route the input cable through the Cord Grip cable clamp (#20) and into the switch box.
3. Using the wire nuts provided, connect the input cable to the Pioneer wires as shown.
4. Tuck the wires back into the switch box and re-mount the switch assembly onto the Pioneer.
5. Connect the input cable to a 120VAC power source.

Wiring...

All components, equipment and installation procedures shall conform to NFPA 1901, *Standard For Automotive Fire Apparatus* and NFPA *National Electrical Code*.

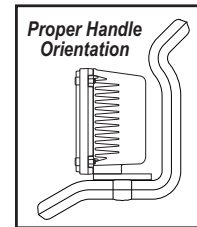
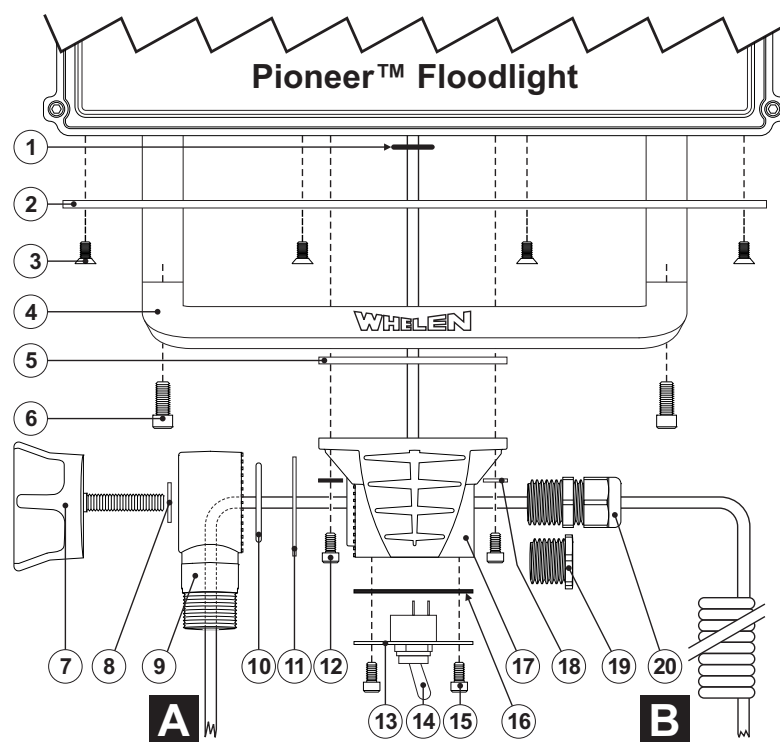
- Make sure that power is OFF before connecting any wires to the power source!
- Make sure that the power source used features an appropriately sized circuit protection device!
- If necessary, extend lighththead wires using minimum 16 AWG wire.

Refer to the wiring guide included with your Pioneer for wire functions, fuse values and optional switch connections.

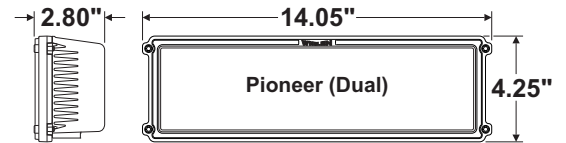
Product Specifications...

Operating Voltage 115VAC / 60Hz
 Watts / Amps 75W / .625A Each (150W / 1.25A Total)

IMPORTANT! Before returning the vehicle to active service, visually confirm the proper operation of this product, as well as all vehicle components/equipment.



Pioneer Dimensions



Note that if the customer supplied input cable is routed through the adjustment knuckle (Style A), the cable must be completely enclosed in metal and not exposed! Also, the plug provided (19) must be used in place of the cable clamp (20) used with Style B.

Input Cable Requirements:

- Type SOOW or equivalent
- 18 AWG UL-approved wire
- 600V Rated

Wiring:

White - Neutral
 Green - Chassis Ground
 Black - Power

QTY	ITEM	DESCRIPTION
*		Dual Pioneer™AC Flood/Flood Pole Mount Kit
1	1	O - Ring
1	2	Bracket, Mounting Switch Box Dual
4	3	Screw, #10-24 x 3/8 PFHMS SS
1	4	Handle
1	5	Gasket, Switch Box
2	6	Screw, 1/4-20 x 3/4 Socket Head Cap, SS
1	7	Knob, Adjustment
1	8	Washer, Flat Nylon .340 ID .740 OD x .067
1	9	Knuckle, Adjustment
1	10	O-Ring, 1 1/2 OD x .105
1	11	Washer, Flat Nylon 1.562 ID 1.875 OD x .062
4	12	Screw, 10-24 x 1/2 Socket Head Cap, SS
1	13	Plate, Two Switch
2	14	Switch, Toggle
2	15	Screw, 10-24 x 3/8 Socket Head Cap, SS
1	16	Gasket, Switch Plate
1	17	Switch Box, Pole Mount
1	18	Washer, Flat Nylon .188 ID, .3438 OD x .050
1	19	Hole Plug, Threaded 1/2"
1	20	Cord Grip, .875" Straight-Thru