

WHELEN[®]

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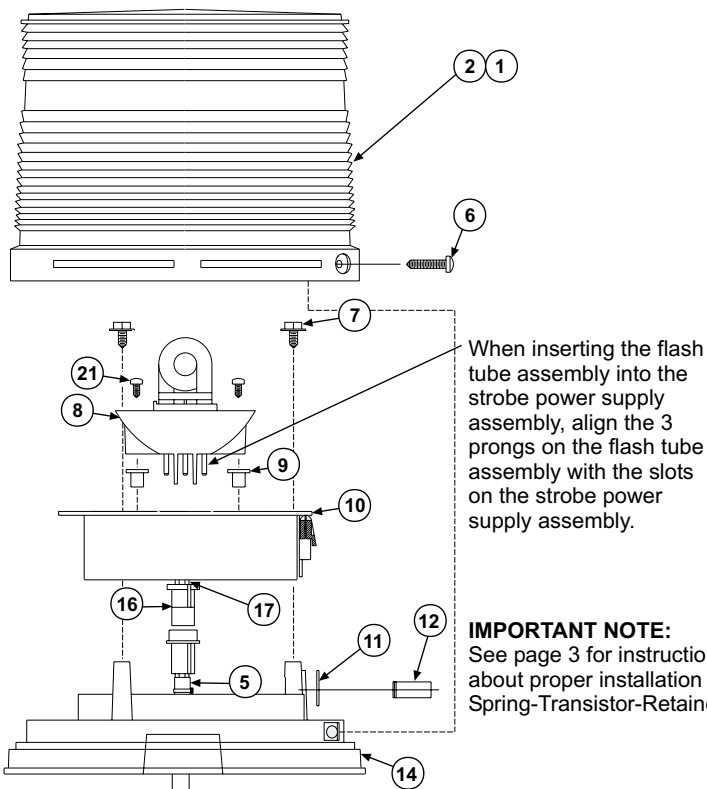
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Installation Guide: Harley-Davidson[®] Pole Light Assembly

Safety First

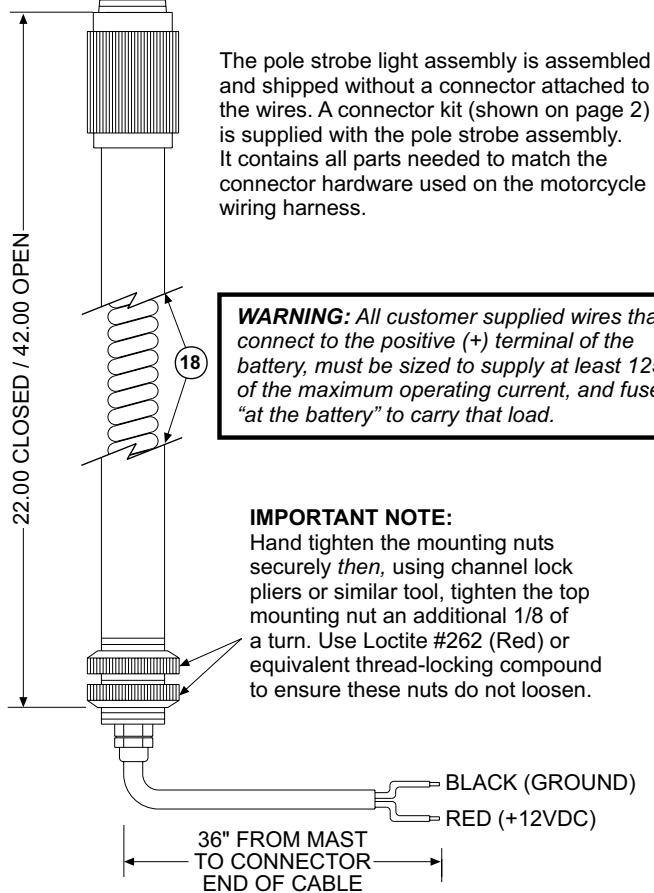
This document provides all the necessary information to allow your Whelen product to be properly and safely installed. Before beginning the installation and/or operation of your new product, the installation technician and operator must read this manual completely. Important information is contained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



IMPORTANT NOTE:
See page 3 for instructions about proper installation of Spring-Transistor-Retainer

PARTS LIST		
ITEM	DESCRIPTION	PART NUMBER
31	PLASTIC BAG 2 1/2 x 5	03-0610017-00
30	SECONDARY LOCK DEUTSCH	39-0015982-00
29	PIN TERMINAL DEUTSCH	39-1H00316-35
28	2 POS DEUTSCH HSG (DTO4-2-FOOY)	39-1H02014-35
27	AMP PIN	39-0501316-04
25	RING LUG 1/4" INSUL #31904	25-0116521-05
24	1 POS AMP PIN HOUSING	39-0401313-04
22	KIT, INSTALLATION	01-0415983-00
21	# 4 x 1/2 PHILLIPS PAN HD SMS SS	15-041416-080
18	MAST & CABLE ASS'Y W/ PINS - 36" CABLE	02-0262362-02
17	AMP SOCKET	39-0501326-04
16	AMP 2 SOCKET CONNECTOR	39-0402023-04
14	BASE-STROBE	06-180842-003
12	SPRING-TRANSISTOR RETAINING	23-0320760-00
11	CHO-THERM INSULATOR	56-000000-100
10	STROBE POWER SUPPLY ASSY.	02-0167204-01
9	GROMMET, #4 FASTEX	21-17020602-3
8	FLASH TUBE ASSY. (FT-20A)	36-0341567-00
7	6-32 x 5/16" HEX WASH HD THD FORM SCREW	15-066939-056
6	6 X 5/8 PPH PLASTI SS	15-065410-100
5	TY WRAP 6"	26-0215001-06
2	OPTIC DOME (RED) LEXAN	68-2180452-50
1	OPTIC DOME (BLUE) LEXAN	68-2180452-20
*	LIGHT ASSEMBLY (12V OR 24V)	01-0680866-00



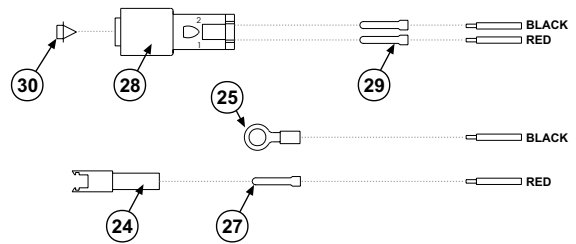
The pole strobe light assembly is assembled and shipped without a connector attached to the wires. A connector kit (shown on page 2) is supplied with the pole strobe assembly. It contains all parts needed to match the connector hardware used on the motorcycle wiring harness.

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.

IMPORTANT NOTE:
Hand tighten the mounting nuts securely *then*, using channel lock pliers or similar tool, tighten the top mounting nut an additional 1/8 of a turn. Use Loctite #262 (Red) or equivalent thread-locking compound to ensure these nuts do not loosen.

WARNING: The Strobe Power Supply is a High Voltage Device. Do Not Remove Tubes or Dismantle the Strobe Light Head Assembly While in Operation. Wait 10 Minutes After Turning Off Power Before Starting Work or Any Trouble Shooting.

This unit is designed to operate from a 12 VDC or 24 VDC power source (nominal).



1. Determine the Model number of motorcycle the pole strobe light assembly is to be mounted on.

2. In supplied connector kit, choose connector hardware to match motorcycle Model number, and install onto wires of the pole strobe light assembly.

IMPORTANT NOTE: WIRES MUST BE INSERTED INTO THE PROPER POSITIONS AS SHOWN IN FIGURES ON THIS PAGE, SINCE POLARITY IS IMPORTANT.

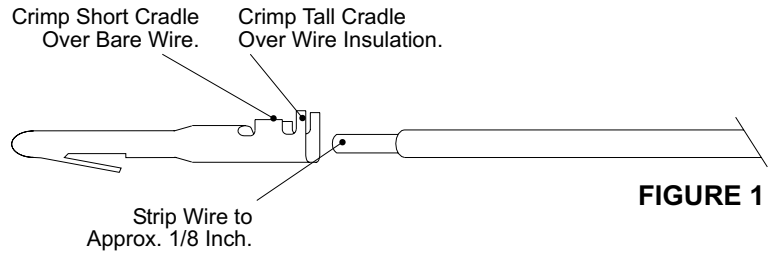


FIGURE 1

Models FLHTP and FXRP 1988-1992

FIGURE 2. Route cable to left side cover. Crimp ring terminal and AMP pin terminal on Black and Red wires. Insert pin in 1 position AMP connector. Connect Red wire with pin connector to main harness, and ground Black wire with ring terminal.

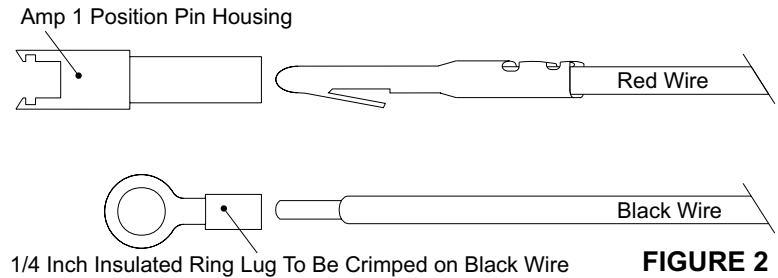


FIGURE 2

Model FLHTP 1994

FIGURES 3 TO 6. Cut cable to 10 inches long.

FIGURE 3. Crimp DEUTSCH pin terminals to Red and Black wires using DEUTSCH crimping tool DTT1600. Cut White wire flush with cable jacket.

FIGURE 4. To insert pin inside rear seal of connector, hold wire approximately one inch behind pin terminal.

FIGURE 5. Push pin terminal all the way inside the rear seal of the connector until a click is felt. A slight tug on the wire will confirm that the pin terminal is properly locked in place.

FIGURE 6. Once the two pin terminals are in place inside the connector housing, use a needle nose pliers to insert the orange pin wedge inside the connector housing from the other end. The pin wedge will have to be fitted inside the cavity below the two pins. Connect the pin connector to main harness at the back of the radio carrier.

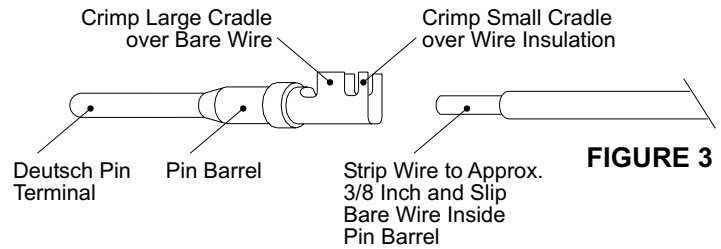


FIGURE 3

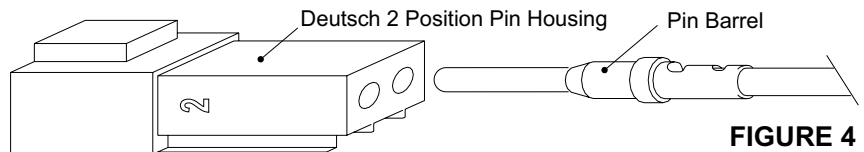


FIGURE 4

CONNECTOR KIT P/N 01-0415983-00 CONTAINS:

QTY.	DESCRIPTION	PART NUMBER
1	1 Position Amp Pin Connector	39-0401313-04
1	1/4 inch Insulated Ring Lug	25-0116521-05
1	Deutsch Orange Pin Wedge	39-0015982-00
1	Amp Pin Terminal	39-0501316-04
1	Deutsch 2 Position Pin Housing	39-1H02014-35
2	Deutsch Pin Terminals	39-1H00316-35

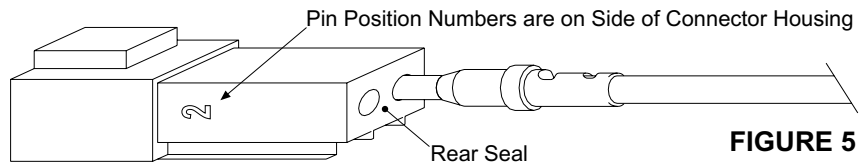


FIGURE 5

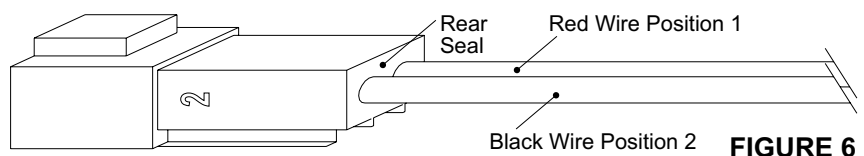
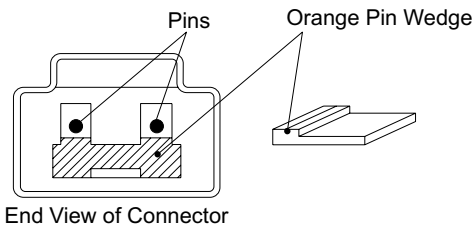


FIGURE 6

ASSEMBLY INSTRUCTIONS OF STROBE LIGHT POWER SUPPLY ASSEMBLY TO CAST ALUMINUM BASE, TO PREVENT ELECTRICAL SHORT CIRCUIT BETWEEN THESE TWO PARTS

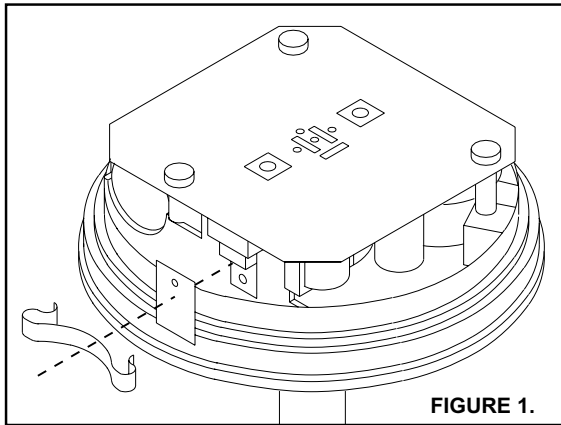


FIGURE 1.

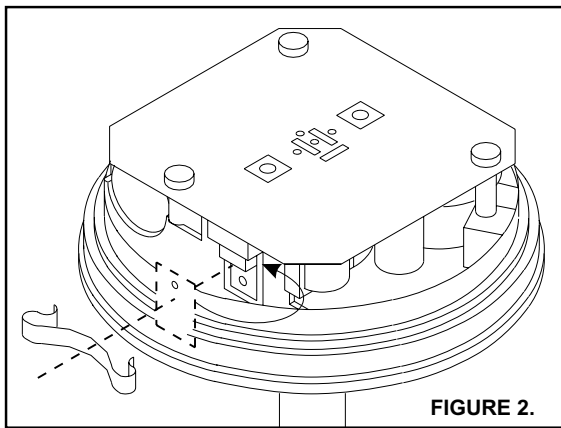


FIGURE 2.

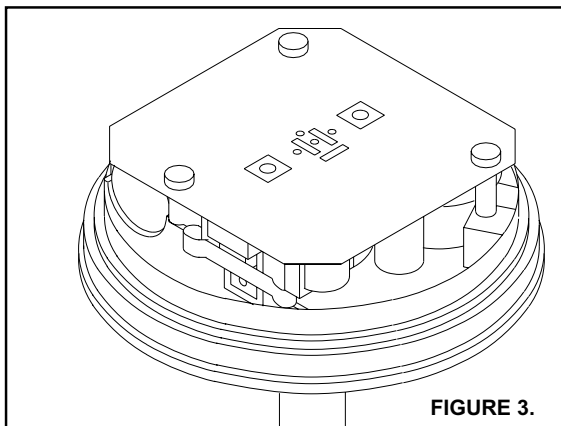


FIGURE 3.

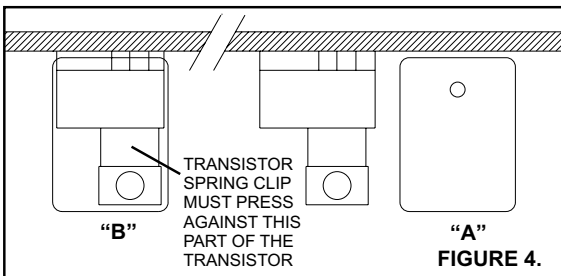
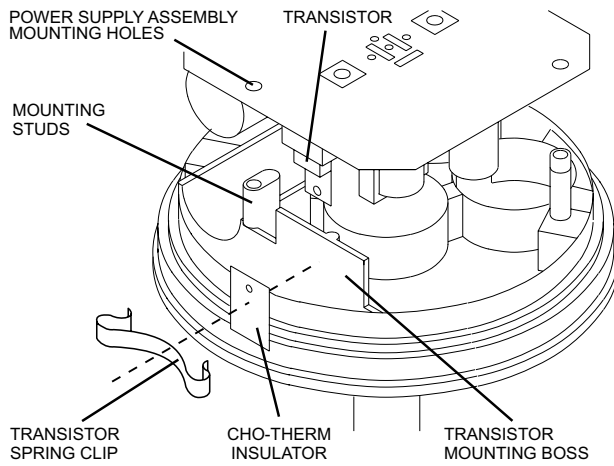


FIGURE 4.



WARNING: The strobe light power supply is a high voltage device. Do not touch or remove strobe tube assembly while unit is in operation. Wait at least 10 minutes after turning off power before starting work or any trouble shooting on the unit. On this page is described the assembly procedure of the strobe light power supply to the cast aluminum base. It is extremely important that the assembly steps, as described below, be followed exactly, to insure the proper insulation of the strobe light power supply from the cast aluminum base.

FIGURE 1. Lower the power supply assembly onto the cast aluminum base, with the three mounting holes lined up with the holes located on the three mounting studs of the cast aluminum base. During this assembly operation, the transistor on the power supply assembly has to be positioned on the outside of the transistor mounting boss. Secure the strobe light power supply assembly to the mounting studs with enclosed self tapping screws.

FIGURE 2. Slightly bend the transistor on the power supply away from the transistor mounting boss. Slip the Cho-Therm insulator behind the transistor with the hole directed towards the top (see figure 4 "A"). Position the top of the Cho-Therm insulator against the circuit board of the power supply assembly, making sure that some of it shows below the transistor (See figure 4 "B"). It is important that the transistor on the power supply assembly does not contact the transistor mounting boss at any place, as to prevent a damaging electrical short circuit between the strobe light power supply and the cast aluminum base.

FIGURE 3. Use the transistor spring clip to secure firmly the Cho-Therm insulator and the power supply transistor to the mounting boss of the cast aluminum base. Wrap one end of the clip around one side of the mounting boss, then press the other end in position using needle nose pliers. (See figure 5 and note in figure 4 "B").

TOP VIEW OF TRANSISTOR MOUNTING BOSS CHO-THERM INSULATOR AND TRANSISTOR TO BE SECURED BETWEEN TRANSISTOR SPRING CLIP AND TRANSISTOR MOUNTING BOSS (SEE NOTE IN FIGURE 4 "B")

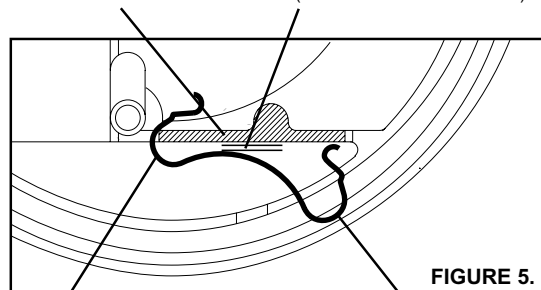


FIGURE 5.

SPRING CLIP AROUND ONE END OF TRANSISTOR MOUNTING BOSS PUSH OTHER END OF TRANSISTOR SPRING CLIP AROUND OTHER END OF TRANSISTOR MOUNTING BOSS