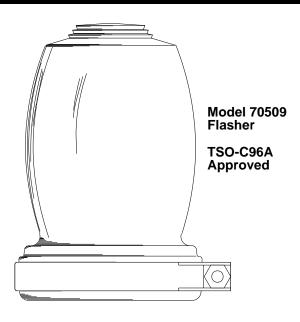


Route 145, Winthrop Road, Chester, Connecticut 06412 Phone: (860) 526-9504

Fax: (860) 526-2009 Internet: www.whelen.com

Sales/Service e-mail: aviation@whelen.com

Installation Guide Model 70509 Flasher



EQUIPMENT LIMITATIONS

The Model 70509 Flasher meets the requirements of FAR 23.1401 and 25.1401. "If certification for night operations is requested, the airplane must have an anti-collision light system that consists of one or more approved anti-collision lights located so that their light will not impair the flight crew members vision or detract from the conspicuity of the position lights."

OPERATING INSTRUCTIONS

14V INPUT VOLTAGE14V

UNIT INPUT CURRENT(LAMP ON)2.7 AMPS INPUT CURRENT(AVERAGE)1.3 AMPS

28V INPUT VOLTAGE 28V

UNIT INPUT CURRENT(LAMP ON)1.3 AMPS INPUT CURRENT(AVERAGE).65 AMPS

FLASH RATE 50 ±5 FPM

LAMP 35W HALOGEN

DUTY CYCLE 50%

INSTALLATION PROCEDURES

The following information is to assist you in installing a Whelen flashing anti-collision light system.

- Choose an appropriate Model 70509 flashing anticollision light assembly (14V or 28V) which is applicable to your aircraft.
- The installation procedure described in the following text will be confined to a single light installation, but is identical for multiple light installation if required.
- Remove old anti-collision light and flasher assembly. Locate and save existing applicable +14VDC or +28VDC lead and (-) ground lead. Clean and prep lead ends as required.
- 4. Connect existing +14VDC or +28 VDC lead to the (red or white) lead on the light assembly and connect existing (-) ground lead to the (black) lead on the light assembly. Both leads must be connected by an approved aircraft connection.

5. Breaker Requirements

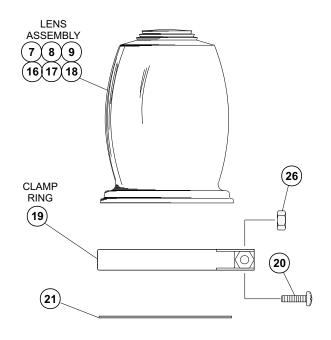
14VDC System - Make sure existing system is equipped with a maximum 5 amp breaker for one light and a maximum 10 amp breaker for a two light system.

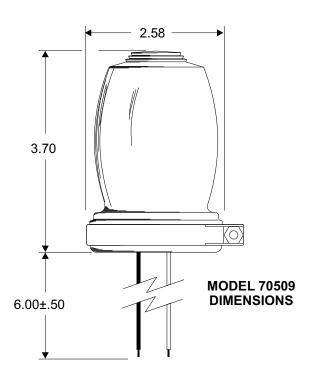
<u>28VDC</u> System - Make sure existing system is equipped with a maximum 2.5 amp breaker for one light and a maximum 5 amp breaker for a two light system.

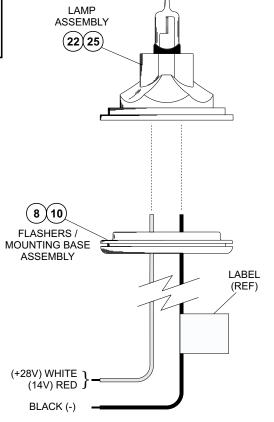
- Install light assembly and insure that all leads are clear of any obstructions. Secure light assembly, use lock washers and/or thread locker on all threaded fasteners.
- Check all avionics systems for interference from this installation.
- When necessary, waterproof the flasher base assembly to aircraft. Apply single part silicone (RTV) or equivalent around any open area where water could get in.
- 9. Update aircraft records and complete Form 337.
- 10. Obtain FAA field approval for installation.

©1997 Whelen Engineering Company Inc. Form No.13215C (041202)

MODEL 70509 REPLACEMENT PARTS		
ITEM	DESCRIPTION	PART NUMBER
1	14V FLASHER ASSY. (RED)	01-0770509-00
2	14V FLASHER ASSY. (WHITE)	01-0770509-01
3	14V FLASHER ASSY. (RED / WHITE)	01-0770509-02
4	28V FLASHER ASSY. (RED)	01-0770509-03
5	28V FLASHER ASSY. (WHITE)	01-0770509-04
6	28V FLASHER ASSY. (RED / WHITE)	01-0770509-05
7	LENS ASSY. (RED)	68-2170504-50
8	LENS ASSY. (WHITE)	68-2170504-30
9	LENS ASSY. (RED/WHITE)	68-2170504-60
10	14V FLASHER ASSY. (RED) W/HOLE	01-0770509-10
11	14V FLASHER ASSY. (WHITE) W/HOLE	01-0770509-11
12	14V FLASHER ASSY. (RED / WHITE) W/HOLE	01-0770509-12
13	28V FLASHER ASSY. (RED) W/HOLE	01-0770509-13
14	28V FLASHER ASSY. (WHITE) W/HOLE	01-0770509-14
15	28V FLASHER ASSY. (RED / WHITE) W/HOLE	01-0770509-15
16	LENS ASSY. (RED) W/HOLE	68-2170504-58
17	LENS ASSY. (WHITE) W/HOLE	68-2170504-38
18	LENS ASSY. (RED/WHITE) W/HOLE	68-2170504-68
19	CLAMP RING ø250	19-262353-000
20	#6-32 X ½ PHILLIPS PHMS	14-0050503-30
21	GASKET	38-0230840-00
22	LAMP ASSY. 14V	02-0350433-00
23	FLASHER BASE ASSY. 14V	02-0250627-00
24	FLASHER BASE ASSY. 28V	02-0250627-01
25	LAMP ASSY. 28V	02-0350433-01
26	#6-32 X 5/16 S.S. HEX NUT	13-0050513-64







Page 2