



WHELEN AEROSPACE TECHNOLOGIES

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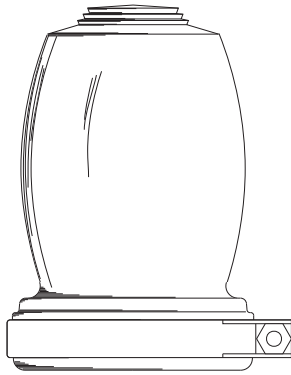
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## Installation Guide/ICA: Model 70509 Flasher

TSO-C96a  
APPROVED

*The conditions and tests required for TSO approval of this article are minimum performance standards. Those installing this article either on or within a specific type or class of aircraft must determine that the aircraft installation conditions are within the TSO standards which include any accepted integrated non-TSO functions. TSO articles and any accepted integrated non-TSO function(s) must have separate approval for installation in an aircraft. The article may be installed only according to 14 CFR part 43 or the applicable airworthiness requirements.*

**WARNING:** This product can expose you to chemicals including Methylene Chloride which is known to the State of California to cause cancer, and Bisphenol A, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).



**Model 70509  
Flasher**

**TSO-C96A  
Approved**

### 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."

**AIRWORTHINESS LIMITATIONS:** The Airworthiness Limitations section is FAA approved and specifies inspections and other maintenance required under §43.16 and §91.403 of the Federal Aviation Regulations, unless an alternative program has been approved. No airworthiness limitations are associated with the installation of the light assembly.

Inspect the lens, replace if there is excessive scratching, pitting, discoloration or cracking. For additional lens maintenance detail see SAE ARP5637.

### OPERATING INSTRUCTIONS...

<b>14V</b>	INPUT VOLTAGE	14V	
<b>UNIT</b>	INPUT CURRENT(LAMP ON)		2.7 AMPS
	INPUT CURRENT(AVERAGE)		1.3 AMPS
<b>28V</b>	INPUT VOLTAGE	28V	
<b>UNIT</b>	INPUT CURRENT(LAMP ON)		1.3 AMPS
	INPUT CURRENT(AVERAGE)		.65 AMPS
<b>FLASH RATE</b>		50 ±5 FPM	
<b>LAMP</b>		35W HALOGEN	
<b>DUTY CYCLE</b>		50%	

### INSTALLATION PROCEDURES...

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

1. Choose an appropriate Model 70509 flashing anti-collision light assembly (14V or 28V) which is applicable to your aircraft.
2. 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.
3. 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.
4. **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.  
28VDC 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.
5. 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.
6. Check all avionics systems for interference from this installation.
7. 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.
8. If required, update aircraft records utilizing FAA Field Approval (Form 337) or equivalent.

## 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 $\varnothing 250$	19-262353-000
20	#6-32 X 1/2 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

