# 4 viation

# WHELEN® ENGINEERING COMPANY INC.

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 HRCFA & SACF Self-contained Strobe Anti-collision Light Assembly (FAA/PMA Approved)





### INSTALLATION...

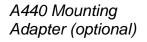
The HRCFA & SACF self-contained strobe light assemblies are interchangeable with Rotating Beacons on any aircraft with a 3.75 inch diameter fairing or mounting adapter. It is not necessary to change any of the existing wiring, or circuit breakers. The light assembly must be properly mounted to comply with FAR Part 91.205(c-2) & (c-3). When necessary (such as fuselage installation), the Whelen model A440 mounting adapter must be used

### **Specifications:**

Input Voltage ......14 to 28 Volts D.C.

Current Draw ......3.2 Amps @ 14 Volts D.C.

1.6 Amps @ 28 Volts D.C.





### **MOUNTING...**

- 1. Remove the existing beacon.
- Make the necessary wiring connections using the existing wiring. Positive (+) to the WHITE wire, and Ground (-) to the BLACK wires protruding from the light assembly. All connections must use FAA approved techniques.

Note: It is recommended to ground the unit to the buss bar or the battery. Using the airframe as ground may produce EMI/RFI interference.

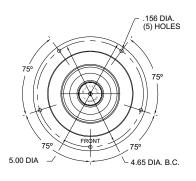
- Remove the three (3) 6-32 x 3/8" mounting screws from the light assembly. Do not use longer screws, damage to the unit may occur.
- Insert light assembly into mounting location and attach using screws as mentioned in step 3. There are two sets of mounting screw locations on the unit for installation versatility (unit may be sealed around periphery with RTV or equivalent).
- If the A440 mounting adapter is used, attach light assembly to adapter using screws as mentioned in step 3 (unit may be sealed around periphery with RTV or equivalent).
- If light assembly is mounted in an inverted position, drill a 1/ 8" diameter hole in lens as indicated on the lens label. For the model SACF series, remove the RTV plug from the hole in the lens.

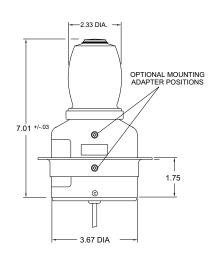
- When installing the light assembly in a rudder mount location, rudder balance must be checked with reference to the aircraft's service manual. The weight and balance should equal the original rotating beacon.
- 8. Check all avionics systems for interference from the installation with reference to AC 43.13-2a, Chapter 4, paragraph 52 (b).
- 9. Label all switches and breakers, install pilot warning placard.
- 10. Update aircraft records and complete FAA form #337.

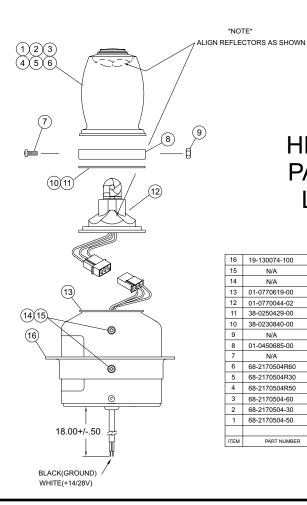
### Flash Tube Replacement...

- When a flash tube failure occurs, remove the #6 Phillips head screw on the clamp ring. Be careful not to lose the #6 hex nut.
- Remove the clamp ring.
- 3. Lift the lens assembly & gasket off the strobe tube.
- 4. Lift the strobe tube and carefully unplug the connector.
- 5. Replace with new strobe tube assembly.
- Attach all parts as required.
   See parts breakdown for replacement part numbers.

©2001 Whelen Engineering Company Inc. Form No.13611 (071801)



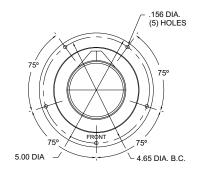


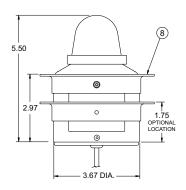


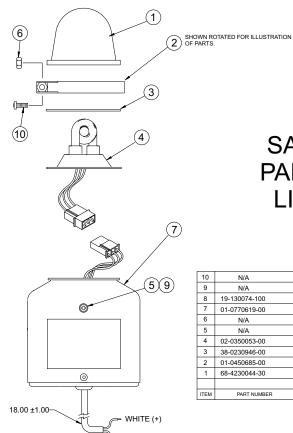
# **HRCFA PARTS** LIST

\*NOTE\*

16	19-130074-100	A440 MOUNTING FLANGE (OPTIONAL)
15	N/A	#6 INT. TOOTH LW(MS35333-71)
14	N/A	#6-32x3/8 PPHMS(MS51957-28)
13	01-0770619-00	POWER SUPPLY ASSEMBLY
12	01-0770044-02	A469B FLASH TUBE ASSY.
11	38-0250429-00	RFI GASKET
10	38-0230840-00	GASKET
9	N/A	#6-32 X 5/16 SS HEX NUT (MS35649-264)
8	01-0450685-00	CLAMP RING
7	N/A	#6-32x1/2 PPHMS(MS51957-30)
6	68-2170504R60	LENS, A402ADS
5	68-2170504R30	LENS, A402ADW
4	68-2170504R50	LENS, A402ADR
3	68-2170504-60	LENS, A402AS
2	68-2170504-30	LENS, A402AW
1	68-2170504-50	LENS, A402AR
ITEM	PART NUMBER	DESCRIPTION







# SACF **PARTS** LIST

10	N/A	#6-32 x 1/2 PPHMS (MS51957-30)
9	N/A	#6 INT TOOTH L/W (MS 35333-71)
8	19-130074-100	A440 MOUNTING FLANGE (OPTIONAL)
7	01-0770619-00	POWER SUPPLY HR-CF 14/28V
6	N/A	#6-32 x 5/16 SS HEX NUT (MS35649-264)
5	N/A	#6-32 x 3/8 PPHMS (MS51957-28)
4	02-0350053-00	SA406 FLASH TUBE ASSEMBLY
3	38-0230946-00	GASKET
2	01-0450685-00	CLAMP RING
1	68-4230044-30	SA402 LENS (CLEAR)
ITEM	PART NUMBER	DESCRIPTION

Page 2

► BLACK (GROUND)