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TSO-C96a
APPROVED



90033 - () FLASHING ANTI-COLLISION LIGHT ASSEMBLY OPERATING INSTRUCTIONS.

Nominal Operational Voltage: 27.5 VDC
Average Input Current: 3.2 AMPS
Lamp for all Units: 28VDC, 150 Watts Max.

EQUIPMENT LIMITATIONS

An approved anti-collision system consists of two lights, one located on the top of the vertical fin, and one located on the underside of the fuselage.

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

- 1) Choose the appropriate Model 90033 - () replacement light assembly which is applicable to your aircraft.
- 2) 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.
- 3) Remove old anti-collision light, locate and save existing +28 VDC lead and (-) ground leads. Clean and prep lead ends as required.
- 4) Use existing mounting holes and hardware.

NOTE: If a special mounting adapter plate is required, contact Whelen Aviation Division for requirements.

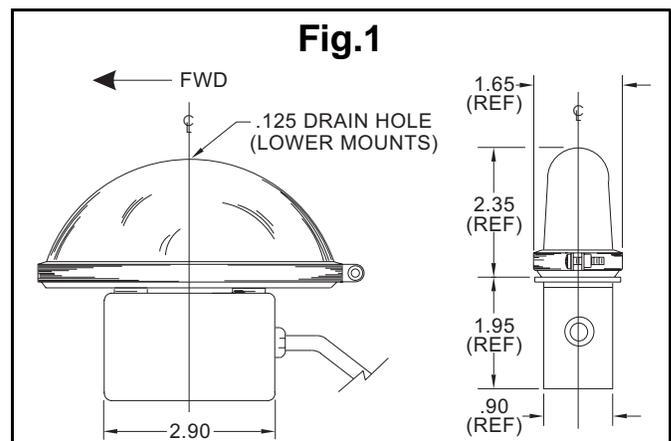
- 5) Connect existing +28 VDC lead to the white lead on the light assembly and connect existing (-) ground lead to the black lead on the light assembly. Both leads must be connected by an approved aircraft connection.
- 6) Breaker Requirements
Make sure existing system is equipped with an appropriate sized breaker.
- 7) Install light assembly and insure that all leads are clear of any

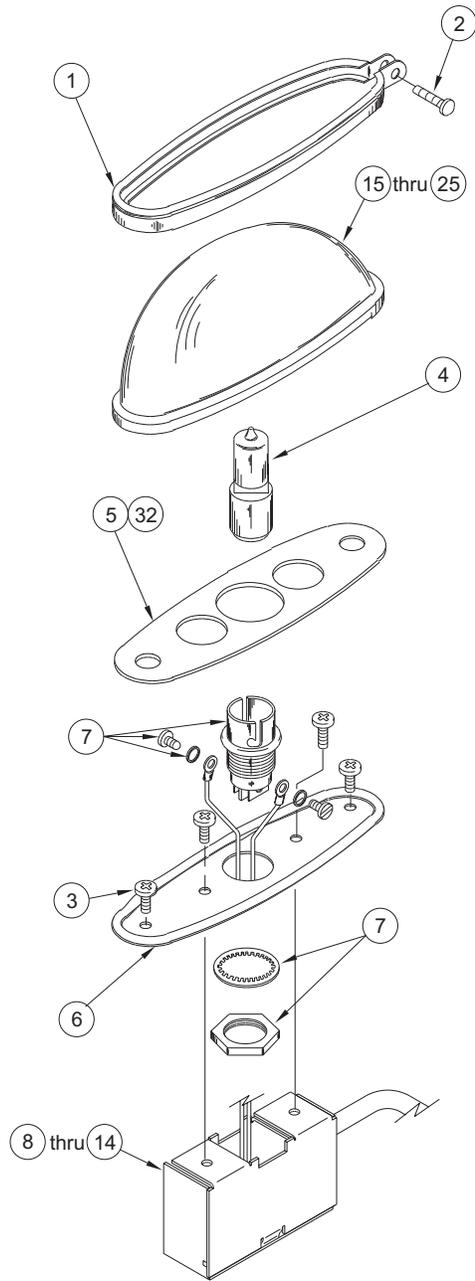
obstructions and ty-rop as required. Secure light assembly, use lock washers and/or thread lock, on all threaded fasteners.

- 8) Check all avionics systems for interference from this installation.
- 9) A flight check should be performed by a properly certified pilot.
- 10) 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.
- 11) Update aircraft records and complete Form 337.
- 12) Obtain FAA field approval for installation.

LAMP REPLACEMENT PROCEDURE

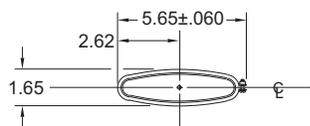
- 1) Remove clamp ring and lens. Remove old lamp.
- 2) Install new lamp. Wipe new lamp thoroughly.
- 3) Install lens and clamp ring. Confirm that the clamp ring and screw are oriented as shown in Fig. 1.



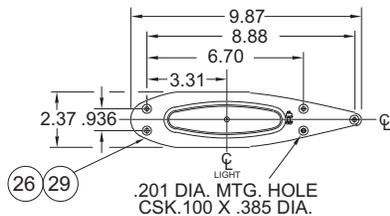


MODEL 90033 - () REPLACEMENT PARTS

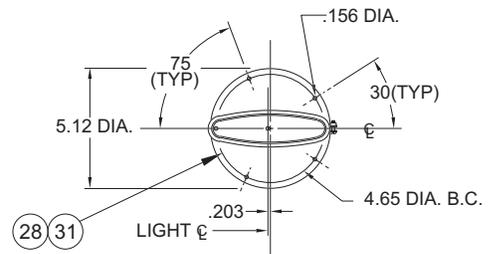
ITEM	DESCRIPTION	PART NUMBER	USED ON FINAL
1	CLAMP RING ASSEMBLY	19-250155-000	ALL
2	SCREW,#6-32 x 5/8 (MS51957-31)	14-0050503-31	ALL
3	SCREW,#8-32 x 5/8 (MS51957-43)	14-0050504-43	ALL
4	LAMP, 28V,150W	34-0226010-91	ALL
5	SEAL, LENS	38-0250154-00	-05,-06,-11,-12,-13,-14,-17 -18,-25,-26,-29,-30,-33,-34 -37,-38,-41,-42,-43,-44
6	BASE, MOUNTING	06-170166-000	ALL
7	LAMPHOLDER ASSEMBLY	33-06230359-0	ALL
8	FLASHER ASSEMBLY	01-0268469-00	-01,-02,-03,-04,-05,-06,-09 -10,-11,-12,-19,-20,-23,-24 -33,-34,-43,-44
9	FLASHER ASSEMBLY, MASTER	01-0270759-00	-29,-30
10	FLASHER ASSEMBLY, SLAVE	01-0270759-01	-31,-32
11	FLASHER ASSEMBLY	01-0270758-00	-07,-08,-13,-14,-17,-18,-25 -26
12	FLASHER ASSEMBLY, MASTER	01-0270762-00	-39,-40
13	FLASHER ASSEMBLY, SLAVE	01-0270761-00	-41,-42
14	BASE/CABLE ASSEMBLY	01-0270760-00	-37,-38
15	LENS, AVIATION RED	68-4270140-50	-05,-11,-13,-25,-29,-33,-43
16	LENS, AVIATION WHITE	68-4270140-30	-06,-12,-14,-26,-34,-44
17	LENS, AVIATION RED w/HOLE	68-4250258-58	-01,-03,-07,-09,-19,-23,-31
18	LENS, AVIATION WHITE w/HOLE	68-4250258-38	-02,-04,-08,-10,-20,-24,-32
19	LENS, AVIATION RED w/MASK	68-4250257-52	-17
20	LENS, AVIATION WHITE w/MASK	68-4250257-32	-18
21	LENS, AVIATION WHITE w/MASK	68-4250407-32	-30
22	LENS, AVIATION RED w/MASK	68-4270140-51	-37,-41
23	LENS, AVIATION WHITE w/MASK	68-4270140-31	-38,-42
24	LENS, AVIATION RED w/MASK	68-4270140-52	-39
25	LENS, AVIATION WHITE w/MASK	68-4270140-32	-40
26	ADAPTER, MOUNTING, SMALL	06-170277-008	-05,-06,-11,-12,-15,-16,-25 -26,-29,-30,-33,-34
27	ADAPTER, MOUNTING, LARGE	06-170278-008	-03,-04,-09,-10,-23,-24
28	ADAPTER, MOUNTING, ROUND	06-170276-008	-07,-08
29	GASKET, SMALL MTG. ADAPTOR	38-0270427-00	-05,-06,-11,-12,-15,-16,-25 -26,-29,-30,-33,-34
30	GASKET, LARGE MTG. ADAPTOR	38-0270333-00	-03,-04,-09,-10,-23,-24
31	GASKET, ROUND MTG. ADAPTOR	38-0270334-00	-07,-08
32	SEAL, LENS, FUEL RESISTANT	38-0250154-01	-01,-02,-03,-04,-07,-08,-09 -10,-5D,-6D,-19,-20,-23,-24 -31,-32,-39,-40



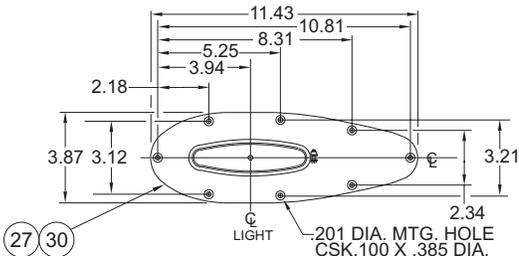
TOP VIEW 90033-1,-2,-13,-14,-17,-18,-19,-20,-31,-32,-37,-38 & -39 THRU -44



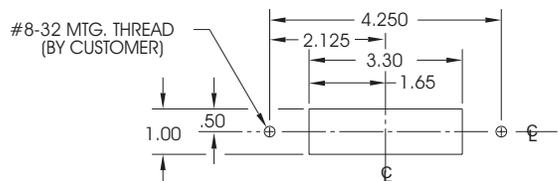
TOP VIEW 90033-5,-6,-11,-12,-25,-26,-29,-30,-33 & -34



TOP VIEW 90033-7 & -8 (LOWER MOUNT ONLY)



TOP VIEW 90033-3,-4,-9,-10,-23, & -24



90033-1,-2,-13,-14,-17,-18,-19,-20,-31,-32,-37 THRU -44