



WHELEN AEROSPACE TECHNOLOGIES

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Installation Guide/ICA:
Model(s) 9035801, 9035802, 9035803, 9035804
P/N(s) 01-0790358-01, 01-0790358-02
01-0790358-03, 01-0790358-04
LED Anti-Collision / Position Light Ass'y

TSO-C30c TYPE I, II & III; APPROVED
TSO-C96a CLASS II; 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.

SPECIFICATIONS:

- Nominal Operational Voltage: 28 VDC
Input Current: LED Position Light 0.5 amps, LED Anti-Collision Light (Pulse@0.25 sec) 4.2 amps, LED Anti-Collision Light (Average) 0.8 amps
Flashrate: 45± 5 per min.
Total Weight: 9035801, 9035802 1.3 lbs., 9035803, 9035804 1.35 lbs.

EQUIPMENT LIMITATIONS: An approved lighting system consists of two lights, one located on each wingtip. The baseplate must be mounted parallel to the vertical and horizontal centerlines of the aircraft to project the patterns properly.

Certain types of installation may require additional testing.

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 this light assembly.

CONTINUED AIRWORTHINESS: The forward position light is designed with 6 LED's. The rear position light is designed with 3 LED's. The Anti-Collision light is designed with 36 LED's. If any one LED fails, the unit must be repaired or replaced. Inspect the lens. Replace if there is excessive scratching, pitting, discoloration or cracking. For additional lens maintenance detail, see SAE ARP5637.

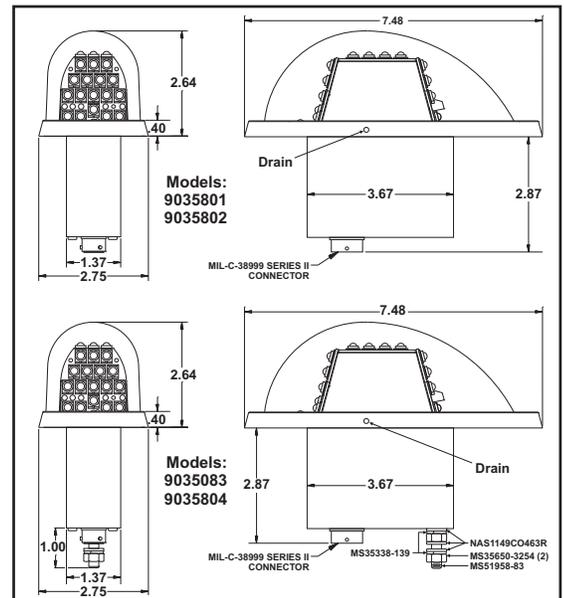
Note: The anti-collision light will automatically shut-off after 9-10 flashes if a failure is detected.

PERIODIC INSPECTIONS: An annual inspection shall be performed unless the OEM specifies a shorter interval.

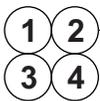
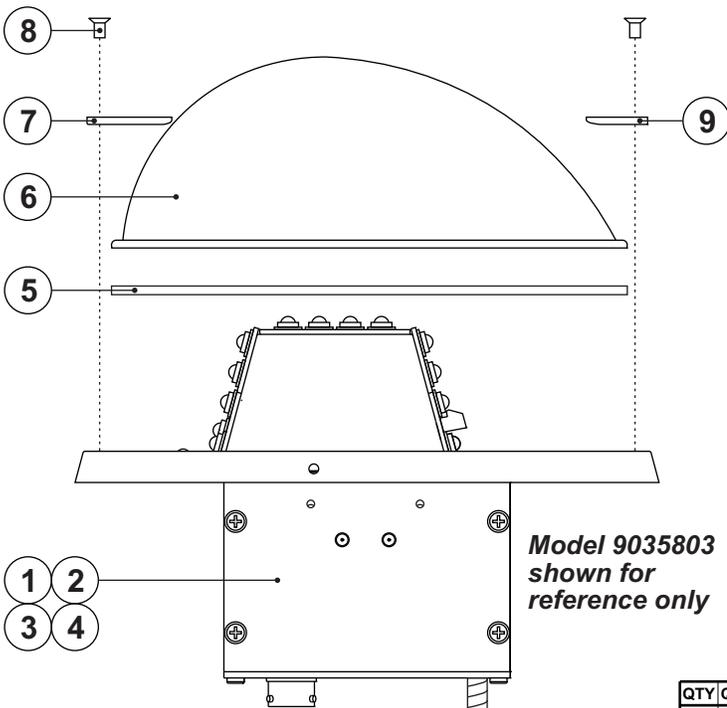
INSTALLATION PROCEDURES: The following information is to assist you in installing a WAT Anti-Collision / Position light system. Please refer to the OEM manual for your aircraft for specific removal and installation instructions.

- 1. Choose the appropriate Model 90358() replacement light assembly.
2. Connect the anti-collision inputs and the position light inputs according to the chart shown. Connections to be in accordance with FAA approved methods.

- NOTE: Models 9035803 and 9035804 have an additional grounding stud.
3. Carefully remove the 4 screws, retainers and lens. CAUTION! Do not touch the LEDs with either fingers or sharp objects, as this could soil or damage the LEDs and effect the optical performance of the light.
4. Using #8 flathead screws, install light assembly and insure that all leads are clear of any obstructions and ty-rap as required. Secure light assembly, using vibration resistant threaded fasteners.
5. Reinstall the lens.
6. Check all avionics systems for interference from this installation.
7. A flight check should be performed by a properly certified pilot.
8. When necessary, waterproof the light base to aircraft. Apply single part silicone (RTV) or equivalent around any open area where water could get in. Do not block the drain hole.
9. If required, update aircraft records utilizing FAA Field Approval (Form 337) or equivalent.

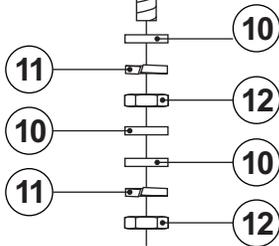


Aviation



MS27508E10A5P

CONNECTOR PINOUTS		
Position	28V	PIN A
Anti-Collision	28V	PIN B
SYNC.		PIN C
GROUND		PIN D



QTY	QTY	QTY	QTY	ITEM	PART NUMBER	DESCRIPTION
		*			01-0790358-01	ASS'Y, GREEN LED FINAL MODEL 9035801
		*			01-0790358-02	ASS'Y, RED LED FINAL MODEL 9035802
	*				01-0790358-03	ASS'Y, GREEN LED FINAL MODEL 9035803
*					01-0790358-04	ASS'Y, RED LED FINAL MODEL 9035804
-	-	-	1	1		ASS'Y, GRN MODULE 90358
-	-	1	-	2		ASS'Y, RED MODULE 90358
-	1	-	-	3		ASS'Y, GRN MODULE 90358
1	-	-	-	4		ASS'Y, RED MODULE 90358
1	1	1	1	5	38-0290396-00	GASKET, LENS
1	1	1	1	6	68-3990373A30	LENS, CLEAR HARD COAT
1	1	1	1	7	19-150928-000	RETAINER, FORWARD
4	4	4	4	8	14-0050508-27	SCREW, 6-32 5/16 PFHMS CSNK
1	1	1	1	9	19-150929-000	RETAINER, TAIL
3	3	-	-	10	16-1301620-62	WASHER, FLAT NAS1149CO463R
2	2	-	-	11	16-0050506139	WASHER, SPRING LOCK MS35338-139
2	2	-	-	12	13-138130-000	NUT, 1/4-28, HEX, SS MS35650-3254

