

****THOROUGHLY READ THIS GUIDE, INCLUDING WARNINGS, BEFORE ATTEMPTING INSTALLATION****



PART #	Description	Bulb Base	Weight	VDC	Input Current
AL-NM1030-G	Wingtip Nav - GREEN	BAY15S	0.85 oz.	14VDC	260mA @14VDC
AL-NM1030-R	Wingtip Nav - RED	BAY15S	0.85 oz.	14VDC	260mA @ 14VDC
AL-1777NM-W	Rear Position - WHITE	BA15S	0.60 oz.	14VDC	260mA @ 14VDC
AL-NM1030-R	Wingtip Nav - RED	BAY15S	0.85oz	28VDC	140mA @28VDC
AL-NM1030-G	Wingtip Nav - GREEN	BAY15S	0.85oz	28VDC	140mA @28VDC
AL-307NM-W	Rear Position - WHITE	BA15S	0.60oz	28VDC	140mA @ 28VDC

INSTALLATION PROCEDURES:

IMPORTANT: It is imperative to inspect and replace each lens cover gasket if evidence of deterioration/cracking/dry-rot is noted. This gasket is the environmental seal for the bulbs and it is critical to inhibit water ingress to the LED which can cause premature failure of the LED bulb assemblies.

IMPORTANT: Poor grounding of the led may contribute to diminished performance of the led. To ensure a satisfactory electrical ground, it is imperative to inspect each socket and clean/remove any surface oxidation/galvanic corrosion that is found (Use an abrasive pad such as Scotch-Brite).

1. Remove existing bulb from fixture with reference to the instructions in your maintenance manual. Retain all OEM hardware.
2. Verify your currently installed wingtip lamp has a BAY15S indexed bayonet base. The BAY15S has two (2) offset indexing tabs that are mandatory for proper fit of the led in the wingtip light fixture.
3. Using the filament bulb as a reference, align the indexing tabs on the led bulb with indexing slots in the wingtip socket. Gently press the LED bulb into the socket and rotate the bulb in a clockwise direction. If properly indexed, bulb should twist approximately 20 degrees and lock into the socket.
4. Repeat step 1. for removal of the rear-facing position light bulb.
5. Verify the lamp base on the filament bulb is a BA15S (single contact bayonet base).
6. To install the tail position led, align the tabs on the bulb base with the slots in the light bulb socket. The tab orientation will not affect the installation of this led. Gently press the LED bulb into the socket while rotating the bulb in a clockwise direction.
7. Re-install lenses, new gaskets and original hardware in the reverse order from which removed.
8. Test the aircraft Position Light circuit via the appropriate procedure in the aircraft operating handbook to verify the new lamps function.
 - a. Test the full frequency spectrum of your aircraft's Communication and Navigation equipment to verify no adverse interference due to EMI or RFI while the light is in the ON position.
9. Make entry in appropriate aircraft logbook and update equipment list to reflect installed equipment.

Note: Retrofit installations have negligible affect to Aircraft Weight & Balance.

WARNING: If applicable: Post installation and before return to service - Test the full frequency spectrum of all radio equipment to verify no adverse interference noted due to EMI or RFI while the light is in the ON position.

WARNING: This product is not FAA-PMA/TSO approved; It is the sole responsibility of installer to determine installation eligibility for use, and to verify compatibility with other equipment and/or modifications.

MAINTENANCE & INSPECTION

Interval:	Action:	Remarks:
Every Flight	Perform function check of lamp(s)	If lamp is found defective, discontinue aircraft operation between sunset and sunrise until serviceable replacement lamp has been installed.
100hr	- Perform function check of lamp(s) - Inspect each light assembly for evidence of moisture/condensation beneath outer lens.	- Replace defective lamp before return to service. - Replace lens gasket on condition when evidence of moisture is noted
Annually	- Perform function check of lamp(s) - Inspect each light assembly for evidence of moisture/condensation beneath outer lens.	- Replace defective lamp before return to service. - Replace lens gasket on condition when evidence of moisture is noted