

# NavMax Series – LED Replacement Aircraft Nav/Position Lamps



PART #	Description	Bulb Base	Weight	VDC	Input Current
AL-7512NM-G	Wingtip Nav - GREEN	BAY15S	0.85 oz.	14VDC	260mA @14VDC
AL-7512NM-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-7524NM-R	Wingtip Nav - RED	BAY15S	0.85oz	28VDC	140mA @14VDC
AL-7524NM-G	Wingtip Nav - GREEN	BAY15S	0.85oz	28VDC	140mA @28VDC
AL-307NM-W	Rear Position - WHITE	BA15S	0.60oz	28VDC	140mA @ 28VDC

## INSTALLATION PROCEDURES:

1. Remove existing bulb from fixture with reference to the instructions in your maintenance manual. Retain all OEM hardware.
2. Before proceeding, verify your currently installed wingtip lamp has a standard **BAY15S** base, or other approved alternate for this lamp. The BAY15S has two (2) offset indexing tabs that are mandatory for proper installation in the wingtip light fixture.

*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.*

3. With the LEDs oriented forward, align the indexing tabs on bulb with slots in the wingtip socket. Gently press the LED bulb into the socket and rotate the bulb in a clockwise direction. If properly aligned, bulb should twist approximately 20 degrees and seat in the socket.
4. Repeat step 1. for removal of the rear-facing position light bulb.
5. Verify the lamp base on the removed bulb is a BA15S (single contact bayonet base).
6. To install, align the indexing tabs on bulb with slots in the rear position light bulb socket. Gently press the LED bulb into the socket while rotating the bulb in a clockwise direction.
7. Re-install all lenses, gaskets and hardware in the reverse order from which it was 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.

## MAINTENANCE & INSPECTION

Interval:	Action:	Remarks:
Every Flight	<ul style="list-style-type: none"> <li>Perform function check of lamp(s)</li> </ul>	If lamp is found defective, discontinue aircraft operation between sunset and sunrise until serviceable replacement lamp has been installed.
100hr	<ul style="list-style-type: none"> <li>Perform function check of lamp(s)</li> <li>Inspect each light assembly for evidence of moisture/condensation beneath outer lens.</li> </ul>	<ul style="list-style-type: none"> <li>Replace defective lamp before return to service.</li> <li>Replace lens gasket on condition when evidence of moisture in noted</li> </ul>
Annually	<ul style="list-style-type: none"> <li>Perform function check of lamp(s)</li> <li>Inspect each light assembly for evidence of moisture/condensation beneath outer lens.</li> </ul>	<ul style="list-style-type: none"> <li>Replace defective lamp before return to service.</li> <li>Replace lens gasket on condition when evidence of moisture in noted</li> </ul>