

# SERVICE BULLETIN

**AA-SB-33-001**

## LED LANDING & TAXI LIGHTS

### **1. Planning Information**

#### **1.1 EFFECTIVITY**

Alpha R2000 Series Aircraft  
HR200 Series Aircraft S/N 001 to 378  
R2000 Series Aircraft S/N 001 to 378

#### **1.2 CONCURRENT REQUIREMENTS**

Nil.

#### **1.3 REASON**

To enable the installation of LED lights with less current draw and longer service life.

#### **1.4 DESCRIPTION**

The incandescent 12v GE PAR36 lamps are removed and 12v LED PAR36 lamps installed.

#### **1.5 COMPLIANCE**

Optional, on an "as required" basis.

#### **1.6 APPROVAL**

By delegated Authority: Alpha Aviation Design Organisation DO75992. Refer COA AA/60/1128

#### **1.7 WEIGHT AND BALANCE**

Negligible effect on weight and balance.

#### **1.8 REFERENCES**

Alpha R2000 Service Manual  
APEX R2000 Service Manual  
APEX HR200 Service Manual

### **2. Material Information**

#### **2.1 MATERIALS IDENTIFICATION**

<u>Part Number</u>	<u>Description</u>	<u>Quantity</u>
01-0771424-10	PLED1L Whelen LED Landing Light	1
01-0771424-15	PLED1T Whelen LED Taxi Light	1

#### **2.2 CONSUMABLES**

Nil

#### **2.3 OTHER PUBLICATIONS AFFECTED**

Nil

#### **2.4 SPECIAL TOOLING**

Nil

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### **3. Accomplishment Instructions**

Refer to the Service Manual. Ensure Master Switches OFF, ground power OFF and aircraft is in a safe state before commencing work.

#### **3.1 REMOVAL AND INSTALLATION OF LANDING AND TAXI LAMPS**

1. Remove attaching screws and Landing light cover 64.26.06.000 from LH wing outboard end of leading edge.
2. Noting the measurements of the spacers (to enable correct alignment for reinstallation) remove the 4 screws from each lamp frame. Also note the orientation of the lamp frames as these are rectangular and may foul on the cover if installed orientated incorrectly.
3. Disconnect the wiring and remove the incandescent lamps from the lamp frames.
4. Connect wire LC2C16 to the +VE terminal and wire LC2D16N to the GND terminal of LED lamp PLED1L.
5. Install the PLED1L lamp into the inboard lamp frame and reinstall the lamp and spacers to measurements noted in step 2 above.
6. Connect wire LC1C16 to the +VE terminal and wire LC1D16N to the GND terminal of LED lamp PLED1T.
7. Install the PLED1T lamp into the outboard lamp frame and reinstall the lamp and spacers to measurements noted in step 2 above.
8. Check the wiring is secured clear of the wing structure and will not chafe.
9. Using onboard or ground power check the Landing light switch operates the inboard lamp and that the Taxi light switch operates the outboard lamp. Rectify by swapping the wiring at the lamps if necessary. Note that the Taxi light is a flood beam and the Landing light is a spot beam and therefore the lamp positions cannot be swapped.
10. Check the alignment of the lamps in accordance with the Service Manual.
11. Reinstall the Landing light cover and screws.

#### **3.2 RETURN TO SERVICE**

Record accomplishment of this Service Bulletin in the aircraft log book.

#### **Contact Information:**



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