

**Pilot's Operating Handbook and  
FAA Approved Airplane Flight Manual  
Supplement  
for**

**Spectra Wing Tips**

When Spectra Wing Tips are installed on the aircraft, this POH Supplement is applicable and must be inserted in the Supplements section (Section 9) of the Pilot's Operating Handbook. This document must be carried in the airplane at all times. Information in this supplement adds to, supersedes, or deletes information in the basic Pilot's Operating Handbook.

FAA Approved *William P. Tower* <sup>Mar 30, 2017</sup>  
Date \_\_\_\_\_  
for Timothy Smyth, Manager  
Chicago Aircraft Certification Office, ACE-115C  
Federal Aviation Administration

## **Section 1 - General**

No change.

## **Section 2 - Limitations**

No change.

## **Section 3 - Emergency Procedures**

No change.

## **Section 3A - Abnormal Procedures**

No change.

## **Section 4 - Normal Procedures**

### **Environmental Considerations**

#### ***Flight During Night IMC***

• Note •

Avoid strobe operation during night IMC.

## **Section 5 - Performance**

No change.

## **Section 6 - Weight & Balance**

No change.

## Section 7 - System Description

### Lighting Systems

#### Exterior Lighting

The airplane is equipped with Spectra Wing Tips with integral position lights, anti-collision lights, wing tip-mounted landing lights, and Recognition (Halo) lights.

*Serials w/ Convenience Lighting:* Spectra Wing Tips also include integral ground illumination lights.

#### Position Lights

The position lights are controlled through the NAV switch on the instrument panel bolster.

28 VDC for the position lights is supplied through the 5-amp NAV LIGHTS circuit breaker on the Non-Essential Bus.

#### Anti-collision Lights

The anti-collision lights are controlled through the STROBE switch on the instrument panel bolster.

28 VDC for the anti-collision lights is supplied through the 5-amp STROBE LIGHTS circuit breaker on the Non-Essential Bus.

#### Wing Tip-mounted Landing/Taxi Lights

The wing tip-mounted landing/taxi lights are controlled through the LAND switch on the instrument panel bolster, and work in conjunction with the landing light located in the lower cowl.

28 VDC for the wing tip-mounted landing lights is supplied through the 15-amp LANDING LIGHTS circuit breaker on Main Bus 3.

#### Recognition (Halo) Lights

The Recognition (Halo) lights provide improved ramp presence and additional lighting during preflight inspection. The brightness of the Recognition (Halo) lights is controlled by an ambient light sensor located in the glare shield. The lights dim during low levels of ambient light, such as in the evening and at night.

*Serials w/o Convenience Lighting:* 28 VDC for the Recognition (Halo) lights is supplied through the 5-amp CABIN LIGHTS circuit breaker on Main Bus 1.

*Serials w/ Convenience Lighting:* 28 VDC for the Recognition (Halo) lights is supplied through the 3-amp CONV LIGHTS circuit breaker on Conv Bus.

### ***Recognition (Halo) Lights Operation - Serials w/o Convenience Lighting***

The Recognition (Halo) lights are enabled by the BAT 1 switch on the instrument bolster panel.

When the BAT 1 switch is in the ON position:

- Recognition (Halo) lights will remain on if the aircraft is either on the ground or in flight below approximately 300 feet AGL.
- Recognition (Halo) lights will automatically turn off shortly after takeoff, and will turn on prior to landing.

The CABIN LIGHTS circuit breaker can be used to extinguish the Recognition (Halo) lights if the automatic altitude-based switch fails.

### ***Recognition (Halo) Lights Operation - Serials w/ Convenience Lighting***

The Recognition (Halo) lights are enabled by the dome light switch.

When the dome light switch is in the AUTO or ON position and the BAT 1 switch is in the OFF position:

- Opening either cabin door will turn the Recognition (Halo) lights on. Lights will turn off after 1 minute of inactivity.
- Unlocking the cabin doors using the key fob will turn the Recognition (Halo) lights on. Lights will turn off after 5 minutes of inactivity.
- Closing both cabin doors will turn the Recognition (Halo) lights off.
- Locking the cabin doors using the key fob will turn the Recognition (Halo) lights off.

When the dome light switch is in the AUTO or ON position and the BAT 1 switch is in the ON position:

- Recognition (Halo) lights will remain on if the aircraft is either on the ground or in flight below approximately 300 feet AGL.
- Recognition (Halo) lights will automatically turn off shortly after takeoff, and will turn on prior to landing.

When the dome light switch is in the OFF position, the Recognition (Halo) lights extinguish in the event the automatic altitude-based switch fails.

## **Ground Illumination Lights**

*Serials w/ Convenience Lighting:*

Ground illumination lights provide additional lighting during preflight inspection.

28 VDC for the ground illumination lights is supplied through the 3-amp CONV LIGHTS circuit breaker on Conv Bus.

### ***Ground Illumination Lights Operation***

The ground illumination lights are enabled by the dome light switch.

When the dome light switch is in the AUTO or ON position:

- Opening either cabin door will turn the ground illumination lights on. Lights will turn off after 1 minute of inactivity.
- Unlocking the cabin doors using the key fob will turn the ground illumination lights on. Lights will turn off after 5 minutes of inactivity.
- Closing both cabin doors will turn the ground illumination lights off.
- Locking the cabin doors using the key fob will turn the ground illumination lights off.

When the dome light switch is in the OFF position, the ground illumination lights will remain off.

## **Section 8 – Handling, Service, & Maintenance**

No change.

## **Section 10 – Safety Information**

No change.