

Installation procedures for ALFI Model 2434

You will require one SPST switch (not included), a few feet of aviation quality 18 gauge stranded wire and several closed loop crimp-on connectors. Additionally, you will need hardware to secure the ALFI control module at a location and by a means suitable for your aircraft.

Tools required: Very small cross-point screwdriver, standard No. 2 cross-point screwdriver and *wire stripper/crimper*.

At this point you should have already installed the desired LED exterior illumination lights and mounted a SPST switch [Alternative installation can utilize a SPDT (Center Off) for ON-OFF-FLASH operation], circuit protected with a 5A fuse or CB, labeled ALFI, preferably co-located with the existing landing/taxi light switch and electrically connected to the 24VDC power bus.

Please read the entire installation process before beginning the installation.

Be certain to remove all power to the 24VDC bus prior to proceeding.

Determine a suitable location for the ALFI control module and measure the wire run to the ALFI switch and landing/taxi light switch, or switches.

Remove existing LED landing and taxi light wires from load side of their respective switch.

Remove connectors and route these wires through the grommet of the ALFI module. Install new 18 gauge connectors on each wire then attach each to the blue(O), yellow(O), orange(I) and purple(I) coded locations on the terminal strip. Outboard lights to (O), inboard to (I). A one, two or three light system would be attached to any.

Attach 18 gauge wires to the load side of the existing landing/taxi light switch(s). Route these wires through the grommet on the ALFI module, attach crimp connectors then secure to the gold(O) and silver(I) coded locations on the terminal strip.

Locate the longer of two wires leading out from the ALFI module which is marked with a red band. Route this wire to the ALFI switch, install a crimp connector then secure to the load side of the ALFI switch. *The shorter of two wires leading out from the ALFI module is the ground wire.* Route this wire to suitable grounding location, install crimp connector and secure to airframe grounding location.

Apply power to the 24VDC bus then place the landing/taxi light switch(s) and the ALFI switch to the on position. Landing/taxi light(s) should be steadily illuminated. Now place the landing/taxi light(s) switch(s) to the off position. Landing/taxi light(s) should now be flashing in random patterns. If not, refer to troubleshooting.

Secure the empty base cover to the desired location using a suitable means. Weighing only 11 ounces, the ALFI control module may be secured with screws, hook and loop fasteners or even tie wraps. Care should be taken to not create any distortion of the case and screws must be countersunk and flush. Position the component side onto the base and secure with the four small self-tapping screws that were taped to the inside of the base. Use caution to not over tighten, drive to snug only.

TROUBLESHOOTING

Insure that the ground wire from the ALFI control module is connected.

Check that 24VDC is available at load side of ALFI switch when on.

Check integrity of 5A fuse or CB.

With light switches on, check to insure 24VDC is at module power strip.

Every effort has been made to provide our customers with a product that will work good and last a long time. Each ALFI control module is fully function tested following assembly prior to being given a serial number. If you encounter a problem that the foregoing troubleshooting did not solve, call the listed phone number for technical assistance or a return authorization.

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