QC Avionix LLC

Alternator Status Indicator & Alarm - Operating Instructions

The Alternator Status Indicator, ASI, will monitor the status of your alternator and electrical system and warn you with a flashing light and audible alarm of an alternator failure.

INSTALLATION

1. Find a place on your panel where the ASI is visible and does not obstruct your view of other instruments.
2. Set the System Voltage switch to match the voltage of your plane, 14 V or 28 V.
3. Velcro the ASI to the panel.
4. Route the cable to the Accessory/Cigar jack keeping the wire clear of controls and gauges.
5. Plug the fused plug into your Accessory/Cigar jack.

OPERATION

1. If you don't have an Avionics Master Switch, the ASI will alarm when you turn on your Master Switch. This is normal and is a check that the ASI is operating properly. It will remain alarmed until your alternator is on-line unless you press the MUTE button in which case the alarm will be disabled for a few minutes. If you have an Avionics Master Switch, the alarm can be tested by turning the alternator off momentarily while the engine is running.
2. When the electrical system is operating normally and the MUTE function is not active, the GREEN LED will be illuminated.
3. The MUTE function is also useful in a failure scenario to temporarily disable the ASI while you troubleshoot a problem. Note that when the MUTE button is pushed, the ASI sensor is disabled and will indicate normal operation with the green LED illuminated.
4. A few seconds after an alternator failure the RED LED will flash and the audible alarm will beep incessantly. First, try resetting your alternator. If that does not work, disconnect the ASI and turn off all unessential lights and equipment and land as soon as possible. The amount of time you have on the battery depends on many things including the load and condition of the battery. Remember that electrically operated gear and flaps draw significant amounts of current and may not work if your battery is low.
5. The ASI will beep and flash when you power down annoying you until you turn the Avionics Master Switch or aircraft Master Switch off!
6. If the alarm comes on but won't stop after the alternator is running, make sure the voltage setting matches the electrical system in the plane, 28 Volt setting in a 14 Volt plane will cause this.
7. It the alarm doesn't sound when running on the battery alone, check the voltage setting, 14 Volt setting in a 28 Volt plane will cause this.
8. If the Green light does not come on, assure the plug is securely inserted into the Cigar/Accessory jack.

DIAGNOSTICS WITH THE ASI

1. The ASI is handy to diagnose impending problems with your electrical system and getting familiar with the ASI operation under normal conditions will help you quickly assess problems later on.
2. ASI comes on intermittently is often an indication of a marginal alternator or regulator.
3. An alarm the instant you stop your engine is often a sign of a weak battery. It should take a few seconds for the alarm to sound.

SPECIFICATIONS: Typical Current Draw: 15 mA @ 14 VDC, 30 mA @ 28 VDC, Fuse: 1-2 Amperes type 3AG, Size: 2.25" x 1.6" x 0.9", 57mm x 41mm x 20mm

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