

Phoenix Deer Valley and Goodyear Airports

Battery Maintainer Specifications and Procedures

Phoenix Deer Valley and Goodyear Airport Management recognize that tenants may wish to use modern battery maintainer technology to optimize the life of their aircraft batteries while the batteries are installed in the aircraft. This will be permitted for those installations complying with these specifications and procedures.

Specifications

1. Battery Maintainers will be of the computer-controlled, fully automated type with the following minimum features:
 - a. UL Listed and so marked on the device
 - b. Zero voltage on DC terminals prior to battery connection (**no sparks**)
 - c. Reverse polarity protection
 - d. Rejection of shorted battery
 - e. Reject batteries that are below a minimum Open Circuit Voltage (OCV) of 22.5V/11.25V, indicating a possible defective battery
 - f. Fully automated operating cycle
 - g. No AC extension cords
 - h. Direct plug-in connection to aircraft – no alligator clips are permitted
2. Referenced devices:

Schauer Models JAC0512-DVPA, JAC0524-DVPA, includes Extended DC Cable (1-800-899-8658), Ext. 13
<http://battery-chargers.com/our-products/mobile-equipment-electronic-chargers/>

BatteryMINDER Model 244CEC1 series (24 volt only), plus Extended DC Cable (1-800-379-5579)
<http://www.batteryminders.com/aircraft-battery-chargers>
3. Aircraft Connection will be via a hard-wired, direct connection to the aircraft electrical system with the following features:
 - a. Polarized, insulated, shielded socket mounted in the aircraft, outside the Hazard Area
 - b. Mating, polarized plug on the Battery Maintainer DC cable
 - c. No “alligator” clips are permitted
 - d. No opening of the aircraft battery box is permitted during connection or operation, if the aircraft the aircraft is so equipped.
 - e. Installation of the connection system in the aircraft will be in accordance with FAA AC43-1B standards
 - f. Referenced connection kit: Audio Authority Airframe Interface Kit, Model BM-AIK1 or equivalent: https://www.audioauthority.com/product_details/BM-AIK1

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This Procedure must be posted in the hangar near the AC power outlets

Operating Procedures

Connecting

1. Prior to connection to the aircraft, verify that the Battery Maintainer is **DISCONNECTED FROM AC POWER**
2. NO AC EXTENSION CORDS ARE PERMITTED
3. Locate the Battery Maintainer near the AC power outlet
4. Battery Maintainer Device may NOT be used within the Class I, Division II Hazard area
5. Extend the Battery Maintainer DC cable and plug into the aircraft maintainer socket
6. AFTER the DC cable is in place, connect the Battery Maintainer to AC power
7. Verify that the Battery Maintainer automatic cycle has begun

Disconnecting

1. **DISCONNECT AC POWER** from the Battery Maintainer
2. Disconnect the Battery Maintainer DC cable from the aircraft

CAUTION: AC POWER MUST BE REMOVED FROM THE BATTERY MAINTAINER BEFORE CONNECTING OR DISCONNECTING THE DC CABLE TO THE AIRCRAFT!