

SERVICE NOTICE

SUBJECT: KODIAK 100 Battery Care
EFFECTIVITY: As Required

BACKGROUND

This Service Notice is to make customers aware of recommended battery care and indications that should prompt a condition check.

DISCUSSION

The KODIAK 100 is certified for, and equipped with two Concord RG24-15 batteries. These batteries are adequate to start and operate all the systems on the aircraft. However, when the aircraft is not used regularly, owners/operators may observe diminished battery capacity when the aircraft is put back into service.

The average set of batteries will last for two to four hundred starts (one to two years). To get the best possible performance from the batteries, it is important to maintain them properly and keep them in an adequate state of charge at all times.

RECOMMENDED MAINTENANCE

Charge the battery frequently. If the aircraft is used less than weekly, or if the battery open circuit voltage is less than 25 volts, Quest recommends charging the battery for four hours each week.

Equipment and Method. Concord recommends the Battery minder 24041-AA-S5 four-amp model, with the aircraft system powered down. Or, use a ground power unit attached to the external connection, with the aircraft master switch turned on.

INDICATION OF WEAKENING/FAILING BATTERY

Because of the design of the KODIAK 100 electrical system, the number two (right side) battery has the tendency to diminish in capacity more rapidly than the number one battery if the high start feature is overused. To reduce this problem and optimize battery life, Quest recommends using low starts and swapping the batteries every 100 hours of operation.

Intermittent alternator failure. When the battery deteriorates, it tends to “open” and not provide an adequate load and filter for the alternator that powers the essential bus system. When this happens, the alternator voltage becomes less stable, which can result in an alternator fail annunciation. This type of annunciation should be followed up with a battery load test to determine battery condition, as outlined in the *KODIAK 100 Airplane Maintenance Manual*, Chapter 24.

For further information on battery care and maintenance, refer to Concord’s latest version of Manual 5-0171, available at www.concordebattery.com. If you have additional questions concerning battery issues, contact Quest Customer Service.

Quest Customer Service

Service Notice: SN13-04

Phone: (208) 263-1111 Toll Free: 1(866) 263-1112

Email: customerservice@questaircraft.com