



Service Information Letter

SL1-121630-0808 Rev. A
August 28, 2008



SUBJECT: Prohibition of the use of NAVAIR 17-20-AX-930
Calibration Procedure for the RF80-K

MODELS: 121630-001 RF80-K
121630-006 RF80-K (CE)

SUMMARY:

NAVAIR procedure 17-20-AX-930 unnecessarily stresses the RF80-K beyond the limits of its design and fails to check critical calibration points. Use of this procedure can result in damage to the charger and an inaccurate calibration. Use of NAVAIR 17-20-AX-930 procedure should be immediately discontinued.

BACKGROUND:

Since 1992, the RF80-K has dependably serviced NiCad and Lead Acid batteries in battery shops worldwide. The RF80-K is a rugged aircraft battery charger with control circuitry designed to give the most accurate and dependable analysis in servicing batteries common to the aviation industry. This control circuitry not only automates the battery servicing process—it also constantly monitors the state of the battery to assure it is serviced as safe as possible. This circuitry protects both the battery and the charger.

NAVAIR procedure 17-20-AX-930 has been used as an unauthorized procedure for field calibration. After reviewing this procedure, we as the manufacturer have confirmed that this procedure is inadequate and harmful to the RF80-K. NAVAIR procedure 17-20-AX-930 was written to check the RF80-K as if it was a power supply. Several of these steps, particularly 4.1.2 through 4.1.13 which shunts the output and 4.2.19 through 4.2.24 which applies an external voltage across the output, are checks which extend beyond the scope of the charger's design and are harmful to the control circuitry and individual components in the charger.

NAVAIR procedure 17-20-AX-930 fails to address critical calibration areas such as the Discharge Termination Voltages and ReFlex points which are verified in factory authorized procedures. These points must be checked during annual calibration in order to assure proper operation of the RF80-K.

RECOMMENDED PROCEDURES:

The RF80-K Operator's Manual (TD-650 and TD-661) include a simple bench-top calibration procedure which when performed, allows continued service of the unit without removal from the battery shop. Refer to section 5 in the operator's manual for the specific instructions.

In the event the RF80-K fails the bench-top calibration test or has performance problems, it should be sent to the factory or an authorized Christie Service Center for repair, calibration, functional testing and re-certification.

WARRANTY:

The RF80-K has a standard 3 year warranty for parts and labor. The warranty does not cover annual calibration. Annual calibration checks as per the instructions in the Operator's Manual (TD-650 and TD-661) are required to maintain warranty coverage. *Use of NAVAIR procedure 17-20-AX-930 voids this warranty.*

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