

Subject: Concerns about use of NAVAIR 17-20-AX-930 RF80-K Calibration Procedure

Ref: NAVAIR 17-20-AX-930, TD-661, TD-650 Operator's Manual

NAVAIR 17-20-AX-930 figure 3 shows connection of a current shunt across the RF80-K output. This can cause serious damage to the RF80-K and will void the warranty. The RF80-K should be turned on only with a battery connected or to a special test fixture during calibration used only by the factory or authorized Christie Service Center.

Steps 4.1.2 through 4.1.13 instruct the technician to run 25-35 amps directly through an external current shunt. This procedure can seriously damage the RF80-K power devices and render the unit unserviceable.

Steps 4.2.19 through 4.2.24 instructs the technician to apply between 45-65 volts DC using an external power supply. This exceeds the power rating of the RF80-K components. The RF80-K battery volts metering has a maximum reading of 48 volts which is limited by components on the control PC board. Furthermore, the C1 output capacitor is rated for a maximum of 60 volts DC, exceeding the capacitor's voltage can cause it to explode.

This unauthorized calibration procedure does not address critical areas such as the Discharge Termination Voltages and Reflex Points which are verified using the procedures listed in the TD-650 and TD-661. If these are out of alignment, these need to be adjusted as necessary by the factory or authorized Christie Service Center.

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, we suggest it be sent to the factory or an authorized Christie Service Center for repair, calibration, functional testing and re-certification.

We strongly suggest that use of the NAVAIR 17-20-AX-930 RF80-K Calibration be immediately discontinued and users be directed to the operator's manual for proper calibration procedures.

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