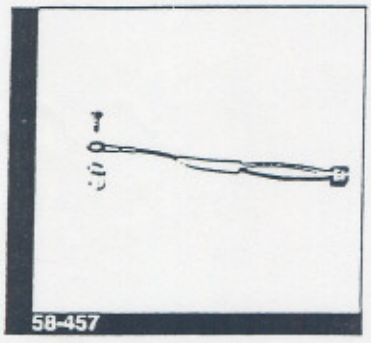
RF Commander® Regulator Update Kit

Document Number: 46-641-A
September, 1993



INSTALLATION INSTRUCTIONS

Product Summary

The RF Commander Regulator Update Kit pulls and holds regulator voltage to ground when the control panel enters the sleep mode. This controls voltage spikes that can cause altered or lost control panel memory.

Install the kit on any RF Commander control panel received before March 26, 1993, and that has a regulator positioned as described in the section, "Identifying the Regulator."

The kit consists of the following:

- 1 Standoff
- 1 Phillips head machine screw
- 1 Resistor cable
- 1 Set of installation instructions

Tools Needed

- A Phillips screwdriver (for removing the control panel and installing the Phillips machine head screw)
- A small needle-nose pliers (to tighten the standoff)

Identifying the Regulator

The following describes how to disassemble the control panel to locate and identify the regulator.

1) Unplug the control panel power transformer.
2) Remove the control panel from its mounted position, and disconnect the backup battery and all wiring harnesses.
3) To gain access to the control panel circuit board, follow steps a, b, and c in Figure 1.

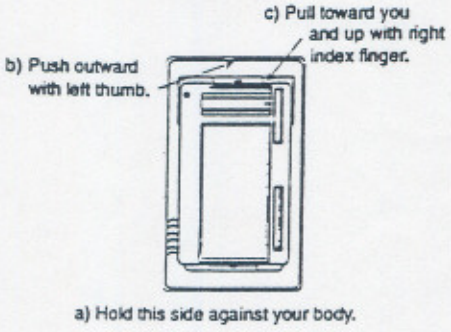


Figure 1. Disassembling the Control Panel

4) Locate the regulator on the circuit board (see Figure 2 drawings). If the regulator is positioned on the circuit board the same way as shown in the first drawing in Figure 2 with the leads facing left, go to the section, "Installing the Kit."

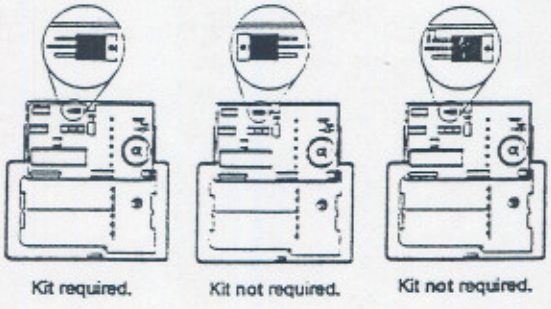


Figure 2. Regulator Location and Position

Note: If the regulator is positioned with the leads facing right, or with the leads facing left with a resistor, do not install the kit. Go to the section, "Reassembling and Testing."

Installing the Kit

The following describes how to install the kit.

1) Install the standoff on top of the existing nut that secures the regulator to the circuit board (see Figure 3).
2) Attach the lug end of the resistor cable to the standoff just installed with the Phillips head machine screw, as shown in Figure 3.
3) Attach the plug end of the resistor cable to the pins on the circuit board as shown in the round close-up in Figure 3. Observe polarity (red wire to right pin, black wire to left pin).

   WARNING: If the control panel backup battery is an alkaline type, you must cut the black wire at the two points indicated in Figure 3. If you cut just one end of the wire, it may short to the circuit board when the control panel is powered up.

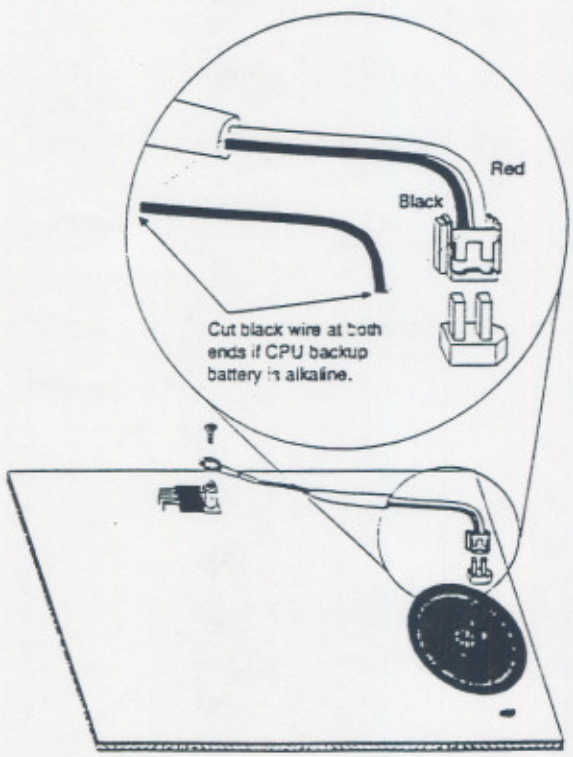


Figure 3. Installing the Resistor Cable

4) Route the resistor cable (see Figure 4) to avoid mechanical interference.

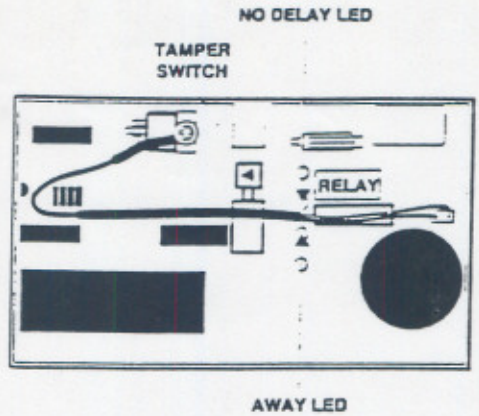


Figure 4. Resistor Cable Routing

Reassembling and Testing

The following describes how to reassemble the control panel and test the system.

1) Reassemble the control panel by reversing the order of steps a, b, and c in Figure 1.
2) Connect all wiring harnesses and the backup battery.
3) Secure the control panel to its mounting location and plug in the power transformer.
4) Test the system thoroughly as described in the *RF Commander Installation Manual* (part no. 46-487). Be sure to contact your central station before activating any alarms or phone tests.

Note: If the control panel responds inconsistently during testing, you should clear memory, reprogram, and retest the system.

Interactive Technologies, Inc
2266 North Second Street
North Saint Paul, MN 55109

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