

Xecomm RI Modification

01/06/00

ProTek jr classic

Version having a Xecomm DAA with a date code after 9801

The current production of the Xecomm XE0002 has a Ring Indicate (RI) output of a sawtooth at the ring frequency. All prior versions of the DAAs, including the Cermatek CH1816, the older Xecomm XE002, and the Dallas 6112, had a steady low output upon an inbound ring. Since these parts are now longer available, repairs made using the only currently available replacement (the Xecomm XE0002 dated coded 9801 or later) may result in the ProTek's exhibiting intermittent response to an inbound ring. Generally, the ProTek will miscount rings or not answer at all. The modification described below will restore the steady low required for consistent response and will be required on jr classics. This memo specifically covers the modification of Rev B PCBs. Aside from the location of the cut, the procedure should be identical for all jr classics except Rev D.

- 1 Remove the PCB from the cabinet.
- 2 On the bottom (solder-side) of the PCB, cut the PCB trace between U23 pin 11 and the via found less than 1/4 inch from U23-11. Refer to the accompanying diagram for exact location.
- 3 Carefully flatten the pins on a 74HCT14 so that they are in the same plane as the body of the IC. The resulting IC should somewhat resemble a flat pac device. Cut pins 1, 2, 3, 4, 10, 11, 12, 13, 14 at the plastic housing.
- 4 Using a hot glue gun mount the 74HCT14 adjacent to the U52 on the solder side of the PCB. Position the IC so that pin 5 of the IC may be soldered directly to pin 3 of the DAA U-52.
- 5 Install a short jumper from the added 74HCT14 pin 7 to U52-10 (ground).
- 6 Install a short jumper from the added 74HCT14 pin 14 to the occupied via at the immediate left of the IC pin 1 (5vdc). There is a trace leading to U52-1 from the correct via. Refer to the accompanying diagram for the exact location.
- 7 Install a 22uf tantalum capacitor positive side to U52-3, negative side to U52-10.
- 8 Install a jumper from pin 8 of the added 74HCT14 to U23-11.

XE002 Ring Indicate Modification

