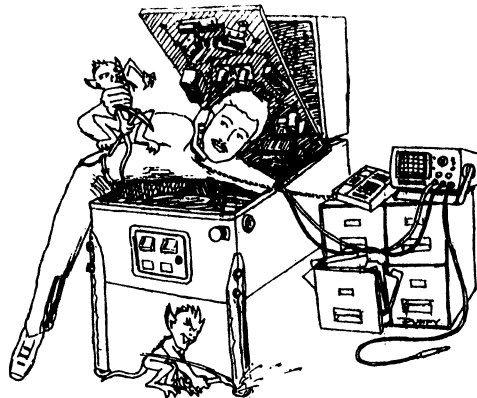




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## Technical Support

*Joe Blackwell, Technical Support Manager*  
*Eric Winston, Technical Support/QA Software Engineer*

TO: Service Managers  
DATE: December 16, 1993  
RE: **"Tales from the Crypt" PPB - L/R Relay Failure**

We have seen a number of Left/Right Relay failures on the PPB (Popcorn Popping Board). The manufacturer of our PPB boards had mistakenly installed a 24volt AC Relay instead of a 24volt DC Relay on *some* boards. We are being informed that the problem should exist only in a small number of games. In addition, we have inspected all boards in-house and have found none having the incorrect relay installed. I am sending you this memo so that you are aware there is a potential problem. If you have any questions, please feel free to call the technical support line.

*Symptom:* Solenoids activate randomly and flash lamps will not activate at all.

*Problem:* K-1 Relay on the PPB is not energizing. The relay coil has opened up due to the fact it is under rated for this application. You can identify this relay by visually inspecting the relay case for its coil voltage rating (Correct: 24v DC ... Incorrect: 24v AC).

You may also determine this by measuring the DC resistance of the relay coil windings;

24v AC - approx. 2 ohms  
24v DC - 650 ohms

*Solution:* Replace the relay or PPB board.

*Note:* All games after Serial # 101664 have been inspected for this potential problem.