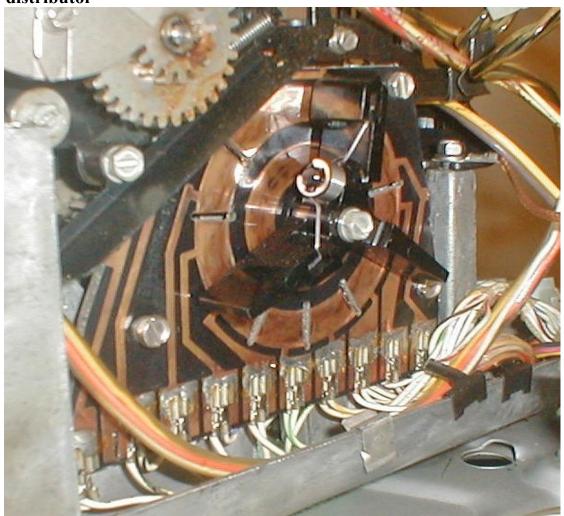
Troubleshooting a 33 ASR that is running open

If everything is working as it should the 33 will run open in Line mode and closed in Local Mode.

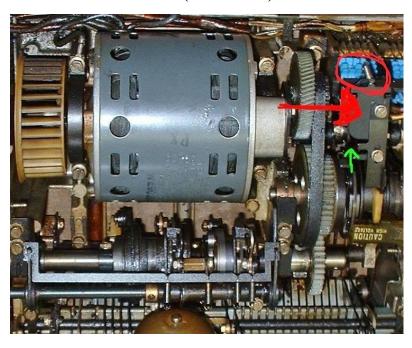
Most all 33 issues can be found by visual means or some simple testing with an ohmmeter or other means such as the 9 volt battery test explained later.

With the machine in Local mode, first step is to see if the distributor is spinning and if it is look for an armature out of place in the distributor area. Red arrow points to tape reader armature in distributor area.

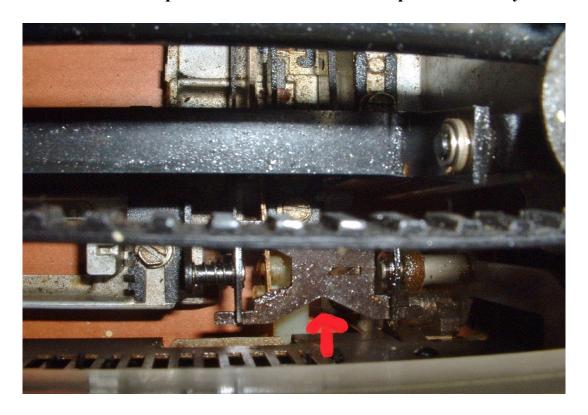




distributor armature (red arrow)



Also check to see if the H plate is installed between the printer and keyboard.

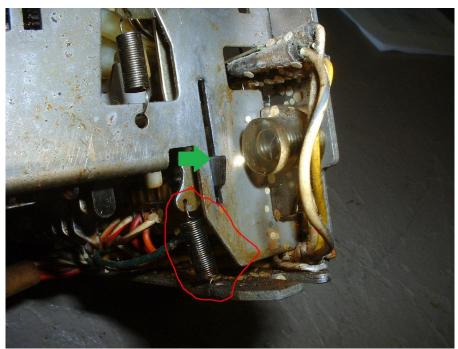


Lastly, check to see if the keyboard is resetting or if the reset lever is moving up and down.

Tripped

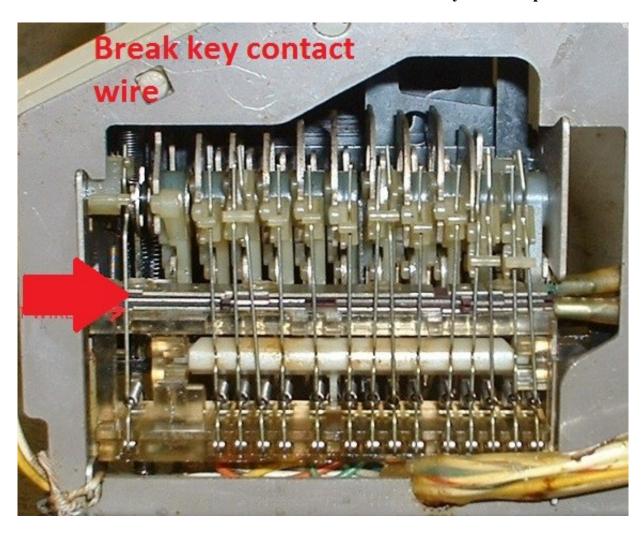


Reset



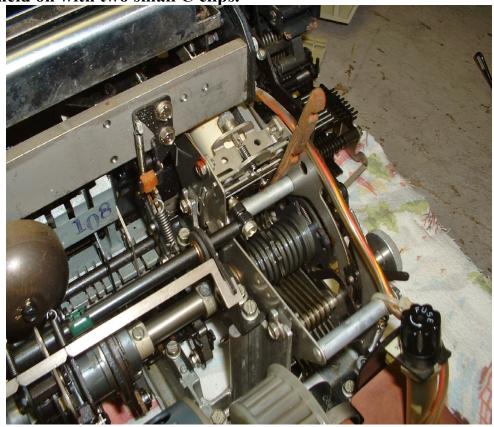
You can hold the lever down and see if that stops the distributor from spinning and clears the running open problem. If so, the H plate may need adjusting or the printer may not be fully in the 4 rubber mounts it sits in. Lots of visual checks before doing the H plate adjustment.

If the distributor is not spinning, check all three fuses in the UCC-6 fuse bank. If all are good, exercise the keyboard Break key a few times. Also check to see if the keyboard Break vertical contact wire is out of place or dirty where it touches the horizontal bar. It should touch the bar when the Break key is not depressed.

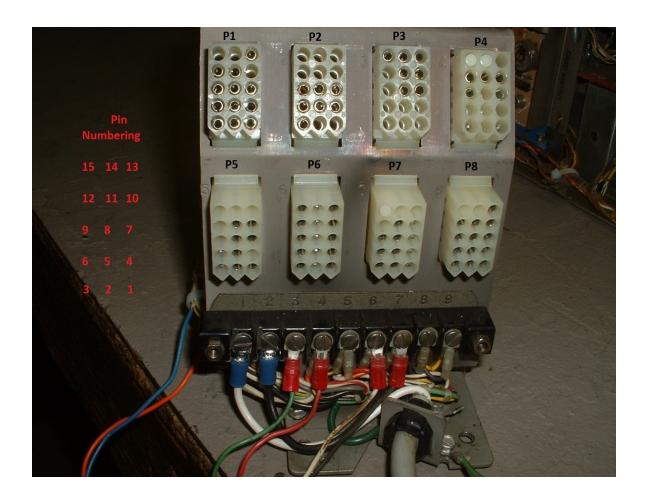


If the machine is still running open, insert a screwdriver or a wooden clothespin half split to about 1/3 its size as show in pic. If the machine is still running open there is a problem in the mainshaft. The clothespin or screwdriver simulates current holding the selector armature closed. If the running open stops, the problem is electrical. Be careful not to dislodge the little copper leaf spring on the

armature held on with two small C clips.



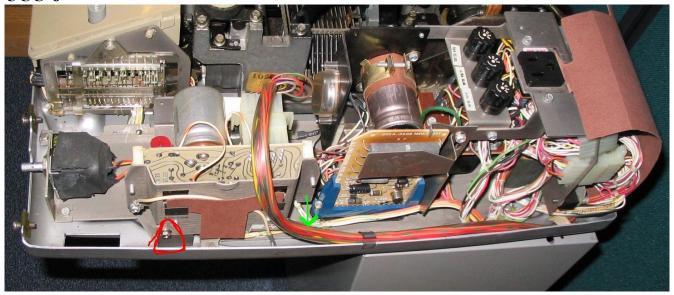
One more test to isolate the running open issue. Place the machine in Line mode and apply a 9 volt battery to pins 7 and 8 of P2 in the Molex bank of the UCC-6. If the printer still runs open reverse the polarity of the battery leads. If the running open stops, the electrical issue is in the Local Loop supply. The SMD card and power transistor are good and the likely problem is the large flat green resistor in the UCC-6.



If the machine is still running open, the issue is in the UCC-6 and you can resume testing in Local mode. It may be a bad solder joint on the vertical SMD card, defective SMD card, or the power transistor that sends current to the printer selector magnet may be defective.

Check the SMD card for bad solder joints and more troubleshooting in the UCC-6

UCC-6

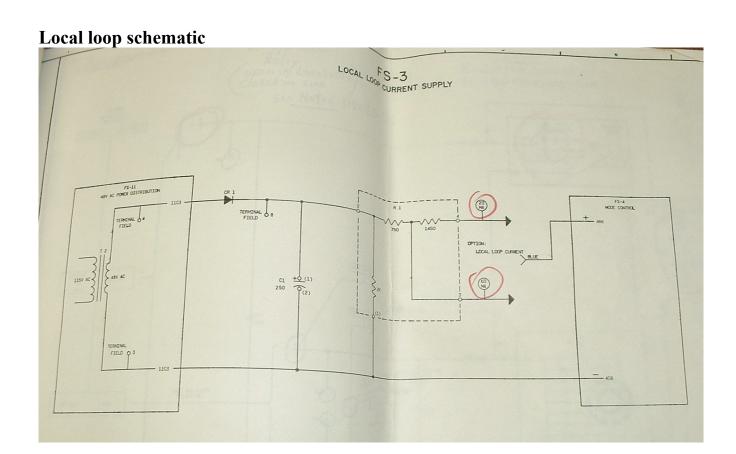


Green resistor, Local loop capacitor and power transistor hidden in UCC-6 pic.



The above work is probably good 95% of the time but anything that can go wrong will.

Some schematics to help below.



SMD card schematic

