

TROUBLE ANALYSIS CHART FOR COIN STATION TEST LINE

TROUBLE	ACTION
1 Unable to seize Coin Station Test Line (CSTL).	Check TJ jack for plug. If in No. 5 Crossbar office, check position of MB switch. Check all power sources and fuses. Check seizure relay sequence, SC1 of SD-1C29701.
2 No CSTL intermittent coin and/or dial tone.	Check tone sources from office. If steady tones are heard, check INTR relay, 120 IPM source, and -48 volt source. ON relay should be operated for dial tone and released for coin tone. CT relay should be operated for coin tone and released for dial tone. Check Circuit SD-1C297-01-B3 and Section 201-833-501, Step A.
3 Two beep answer for DTF ground removal test rather than one beep answer, with no 8A range extender (Coin REG) in circuit.	Check A relay operation in the coin station. Check SCR(Q1) on CA7 for short. Check relay sequence per SC1. Check CPA 962 for constant current output.
4 One beep answer for CF ground removal test rather than two beeps, with no 8A range extender (Coin REG) in circuit.	Check wiring on coin station for CF service. Check Q1 on CA7. Should turn on during test. If it does, check answer generating relay sequence per SC5. Check CPA 962. Check + 48 volt supply voltage.
5 Wrong test is registered or unable to dial test.	Check dial pulse registration (P) relay sequence per SC2 for various digits. Check for dirty contacts on P relays. If ON relay is operated, check illegal number gating circuit per FS3. Check dial on coin station.
6 Erroneous ground, loop, and leakage test answers.	Calibrate CSTL resistance tests per Section 201-833-501. Check calibration box SD-1C395-01 resistors and changes. Check trimpots on CPA 962 and 963 for damage. Check that all circuit packs are connected. Check to assure that coin station used for calibration procedures is not grounded except through the calibration box. Option Z0-check calibration circuits per FS6 and SE4. Check AUX4 relay operation per SC4 if all fail answers occur, for leakage test.
7 No ringing answer with receiver on-hook.	Check ringing voltage source. Check 60 IPM source. Check relay sequence chart, SC5.

TROUBLE	ACTION
8 No coin disposal.	Check station ringer. Check for totalizer off-normal.
9 CSTL fails to disconnect about 60 seconds after hang up.	Check the return and collect coin control voltage sources. Check A relay operation in coin station if DTF. Check relays operation. relay sequence chart, SC3. Check ground path between station and CSTL.
10 Circuit fails to disconnect with on-hook condition in less than 60 seconds.	Check the CPD3 circuit. Check relay sequence with chart S6.
11 No answer forthcoming during coin relay time test. All other tests OK.	Check that handset is placed on-hook only with interrupted dial tone. Switchhook must flash after dial 5 test to obtain interrupted dial tone.
12 Consistent 4 beep answer for coin relay time test regardless of coin relay time adjustment.	Check 4 volt power supply per Section 201-833-501. Check CPA 964, 966, and 973. Check relay sequence per chart, SC7.
13 Rotary dial seizes CSTL OK but TT does not.	Check diode CR4 on CPA 964 for short. Check CPA 964, 966, and 973. Check ICGD and CGD diodes.
14 CSTL coin disposal problems in step-by-step office.	Check TOUCH-TONE dial and receiver. Check wiring between receiver and CSTL. Check battery supply to TOUCH-TONE receiver. Check for excessive loop resistance.
15 Timing difficulties on any test.	Check option S. For CF service, option S is necessary but for DTF service option S will cause the coin station A relay to operate and interfere with coin disposal operations.
16 Loop FEMF test (option ZK) gives false fail answers on long loops, or false fail answers on dial 2 leakage tests.	Check plug in D3 cords associated with TM1, TM2, TM3, and DISC by substitution.
17 Dial 8 and 9 tests (option ZO) give wrong answers.	Check AUX4 and AUX5 operation per SC8 or SC4, if AUX4 does not operate momentarily when TM2 relay operates, number 2 break contact of TM2 relay could be defective.
	Check calibration procedure per Section 201-833-501, Issue 6. Check standard resistors on CA 20-22, check operation or CAL1 and CAL2 and other relays.