

SECTION 578-120-300

4. TROUBLESHOOTING CHARTS

4.01 The troubleshooting charts are provided to simplify the troubleshooting of the buffer by referring to a specific trouble symptom.

4.02 The following troubleshooting charts refer to the entire CDBU801 buffer unit, and to Section I of the CDBU802 buffer unit. Numbers enclosed in parentheses refer to Section II of the CDBU802 buffer unit.

- CHART 1 — DATA DOES NOT TRANSFER INTO BUFFER
- CHART 2 — ONE DATA LEVEL ALWAYS MARKING OR ALWAYS SPACING
- CHART 3 — BUFFER RECEIVES DATA BUT WILL NOT TRANSMIT
- CHART 4 — PARTS OF THE TRANSMITTED MESSAGE ARE MISSING
- CHART 5 — TRANSMITTED DATA IS ERRORED, NO PATTERN TO ERRORS

CHART 1

DATA DOES NOT TRANSFER INTO BUFFER

NO.	SYMPTOM	CORRECTIVE ACTION
1.	Wrong option screw in PTI Terminator circuit card, MC969.	Check for "B" option on MC969 in ZC317 (ZC121).
2.	Power supply failure.	Check voltages at connector JB301.
3.	Defective circuit card in the control circuit.	Replace circuit cards in the following sequence: MC969 in ZC317 (ZC121) MC349 in ZC315 (ZC307) MC645/646 in ZC314 (ZC306) MC512 in ZC308 (ZC301) MC998 in ZC309 (ZC302) MC995 in ZC119
4.	Defective cables.	Check cables and cable connections.

CHART 2

ONE DATA LEVEL ALWAYS MARKING OR ALWAYS SPACING

NO.	SYMPTOM	CORRECTIVE ACTION
1.	Defective MOS Memory circuit card, MC955 or MC956.	Replace circuit card pertaining to defective level. For circuit card location, refer to 1059SD for CDBU801 and 1060SD for CDBU802.
2.	Incorrect or missing programming strap on the MOS Memory circuit card connectors.	For strapping information on the CDBU801, refer to 1059SD and 8988WD, and for CDBU802, refer to 1060SD and 8989WD.
3.	Defective circuit card in the data circuit.	Replace circuit cards in the following sequence: MC969 in ZC317 (ZC121) MC645/646 in ZC314 (ZC306) MC996 in ZC312 (ZC304) MC645/646 in ZC313 (ZC305) MC976 in ZC316 (ZC120)
4.	Defective input or output cable.	Check cables and cable connections.

CHART 3

BUFFER RECEIVES DATA BUT WILL NOT TRANSMIT

NO.	SYMPTOM	CORRECTIVE ACTION
1.	Wrong option on the In/Out Control circuit card.	Check MC349 for option and refer to 1349SD for information on programming the option.
2.	Defective In/Out Control circuit card.	Replace MC349 in location ZC315 (ZC307).
3.	Receiving device not functioning properly.	Check receiving device and cable between buffer and receiving device.
4.	Defective circuit card in the control circuit.	Replace circuit cards in the following sequence: MC976 in ZC316 (ZC120) MC645/646 in ZC313 (ZC305) MC512 in ZC308 (ZC301) MC998 in ZC309 (ZC302)

CHART 4

PARTS OF THE TRANSMITTED MESSAGE ARE MISSING

NO.	SYMPTOM	CORRECTIVE ACTION
	Modulo 6 Counters and Decoders circuit card not programmed properly.	Check options on circuit card MC998 in ZC309 (ZC302). Refer to 1998SD-1 for programming information.

CHART 5

TRANSMITTED DATA IS ERRORED, NO PATTERN TO ERRORS

NO.	SYMPTOM	CORRECTIVE ACTION
	Defective circuit card.	Replace circuit cards in the following sequence: MC976 in ZC316 (ZC120) MC998 in ZC309 (ZC302) MC512 in ZC308 (ZC301)