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SERVICE MANUAL

53A-128

COMMUNICATIONS CARD

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53A-128 COMMUNICATIONS CARD

REV 8909-05-8

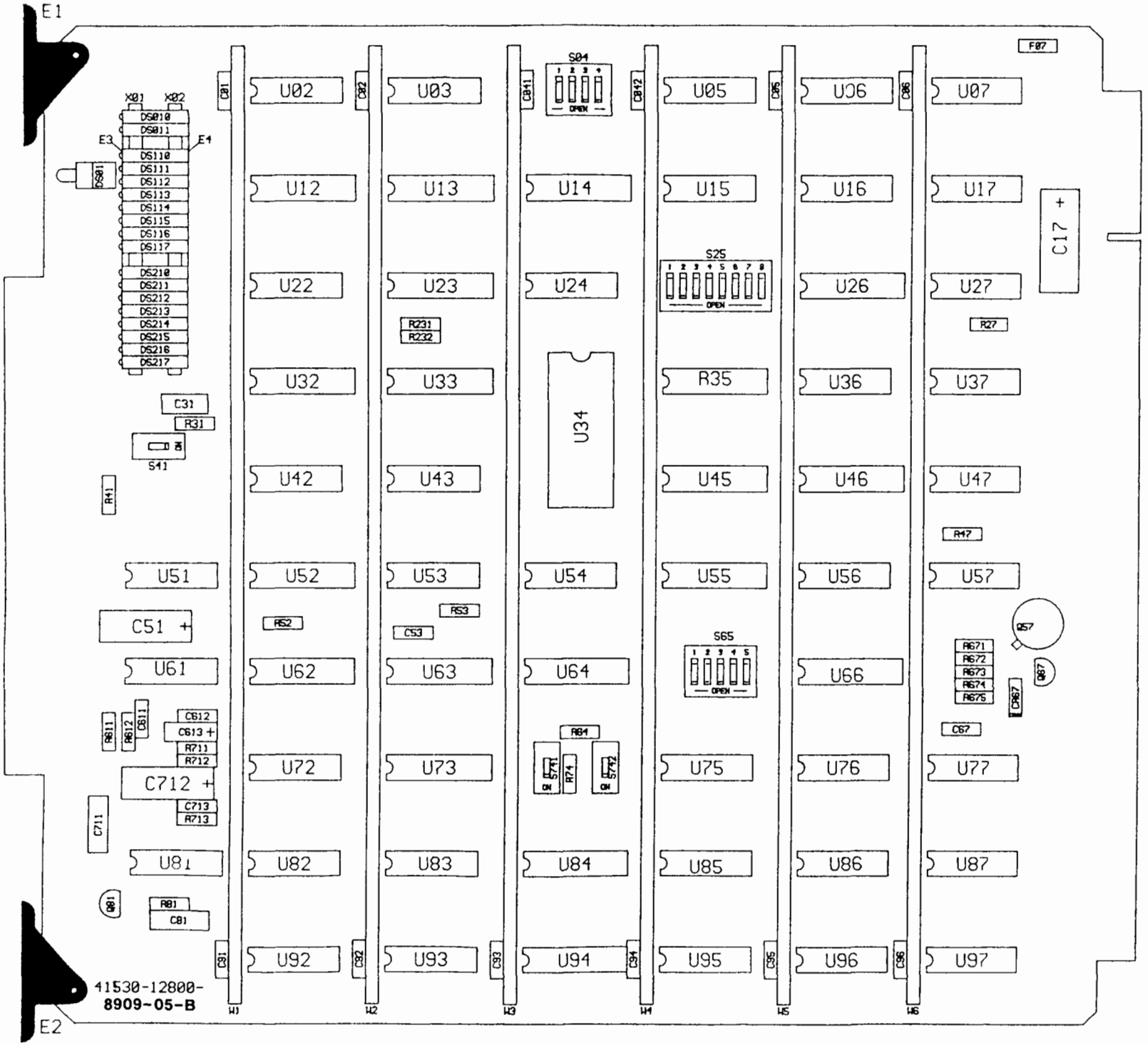
REFERENCE DESIGNATOR	CDS PART NUMBER	QTY.	PART DESCRIPTION	MFG. NUM.	MFG. PART NUMBER
C01,02,041,042,05,06,53,91,92,93 94,95,96	20128-10006	13	CAP FXD CER .1UF 20% 50VDCW	0058	C322C104M5U5CA
C17	21018-15009	1	CAP FXD ELECT 150UF 75% -10% 16VDCW	0025	NLW150-16
C31	21528-10003	1	CAP FXD MICA 100PF 5% 500VDCW	0012	DM5FY101J03
C51,712	21018-10008	2	CAP FXD ELECT 10UF 75% -10% 16VDCW	0025	NLW10-16
C611	20128-47004	1	CAP FXD CER .0047UF 10% STABLE 100VDCW	0005	SR205C472KAA
C612,713	20128-10005	2	CAP FXD CER .01UF 20% 50VDCW	0106	1C25Z5U103M050B
C613	22018-10007	1	CAP FXD TA 1UF 10% 50VDCW	0106	173D105X9050V
C67	20128-47005	1	CAP FXD CER .047UF 10% STABLE 100VDCW	0058	CK06BX473K
C711,81	21528-10004	2	CAP FXD MICA 1000PF 5% 100VDCW	0012	DM-15-102J
CR67	32000-04148	1	DIODE SILICON 75V 1A 5%	0078	1N4148
DS01	32000-00103	1	DIODE LIGHT EMITTING RED 50MA	0039	550-0103
DS010,011,110,111,112,113,114 115,116,117,210,211,212,213,214 215,216,217	32000-02003	18	DIODE LIGHT EMITTING RED WITH RESISTOR 0	0039	547-2003
E1	40401-00128	1	EJECTOR STAMP 53A-128 STYLE B GREEN	0026	40401-00128
E2	40401-10008	1	EJECTOR STAMP COMMO STYLE D GREEN	0026	40401-10008
E3	45050-03227	1	DCL LED 20POS DRW 00000-00463	0026	45050-03227
E4	45050-03228	1	DCL LED 20POS BLK DRW 0000 0-00464	0026	45050-03228
F07	42202-52001	1	FUSE SUB-MIN 2AMP	0061	251002
PCB	41530-12800	1	P.C. BOARD VERSION 2S 8909	0026	41530-12800

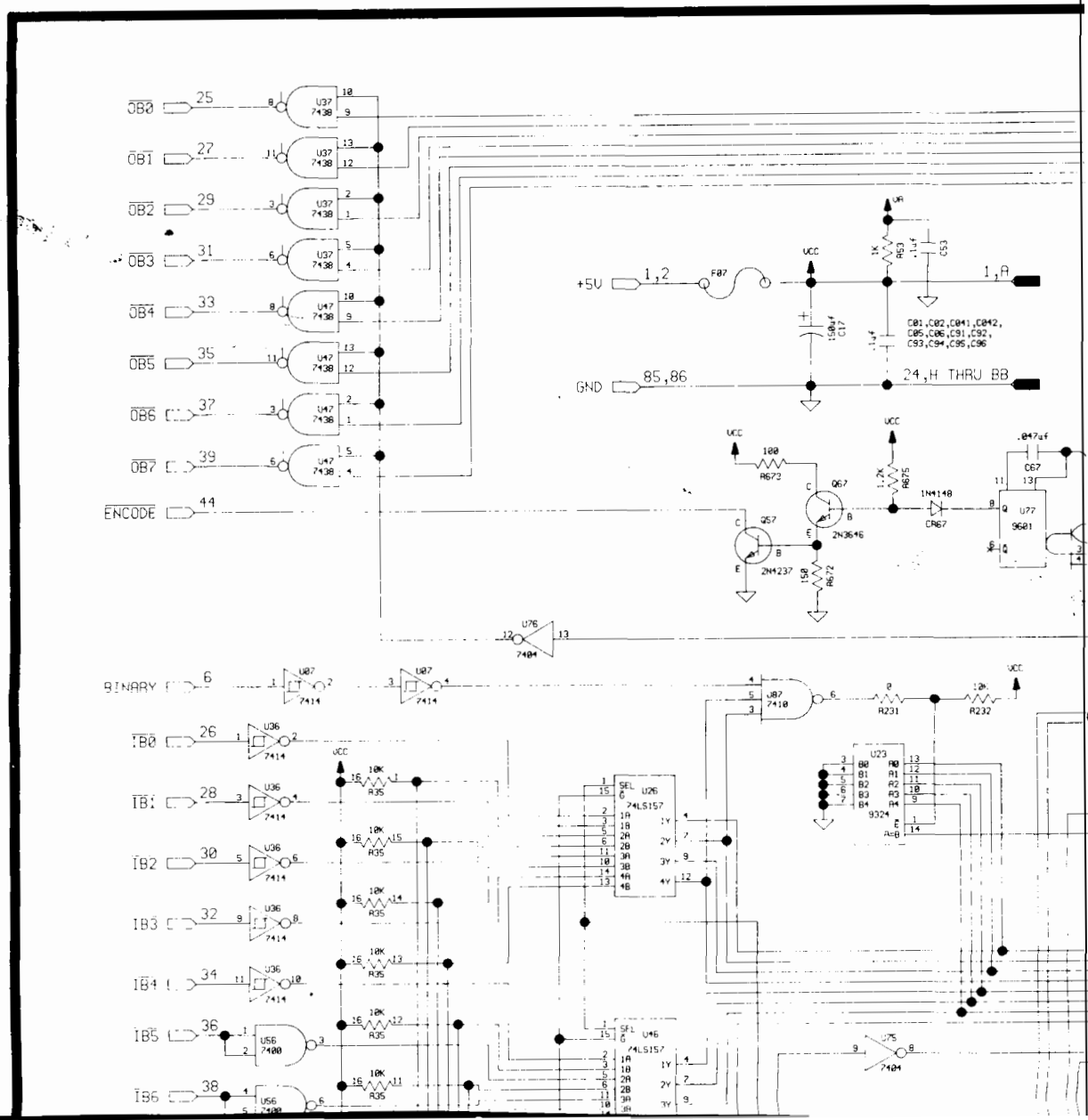
REV 8909-05-B

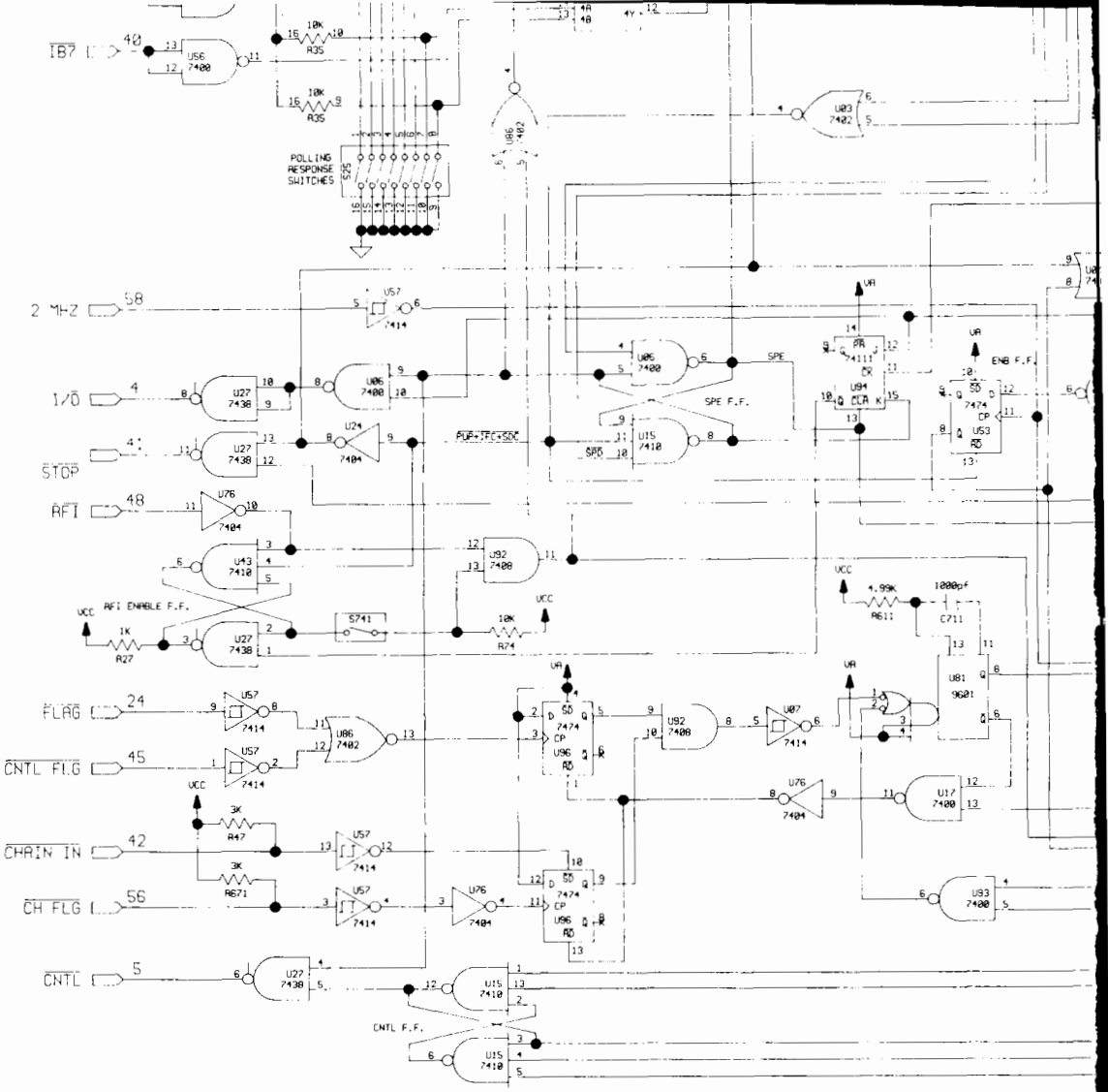
REFERENCE DESIGNATOR	CDS PART NUMBER	QTY.	PART DESCRIPTION	MFG. NUM.	MFG. PART NUMBER
Q57	51100-04237	1	TRANSISTOR NPN SWITCH	0074	2N4237
Q67,81	51100-03646	2	TRANSISTOR NPN HIGH SPEED SWITCH	0074	MPS3646
R231	10117-00000	1	0 OHM RESISTOR	0054	ZEROHM
R232,52,74	10117-10005	3	10K RES COMP 1-4W 5%	0087	R25J-10K-5%
R27,53,64	10117-10004	3	1K RES COMP 1-4W 5%	0087	R25J-1K-5%
R31	10117-33004	1	3.3K RES COMP 1-4W 5%	0087	R25J-3.3K-5%
R35	12002-10005	1	10K RES NETWORK 5% 1-4W 15-PKG	0037	MDP1601-103G
R41	10117-33003	1	330 OHM RES COMP 1-4W 5%	0087	R25J-330-5%
R47,671	10117-30004	2	3K RES COMP 1-4W 5%	0087	R25J-3K-5%
R611	14024-49904	1	4.99K RES FILM 1-4W 1% 100PPM	0035	RN55D4991F
R612,674,712	10117-33005	3	33K RES COMP 1-4W 5%	0087	R25J-33K-5%
R672	10117-15003	1	150 OHM RES COMP 1-4W 5%	0087	R25J-150-5%
R673	10117-10003	1	100 OHM RES COMP1-4W 5%	0087	R25J-100-5%
R675	10117-12004	1	1.2K RES COMP 1-4W 5%	0087	R25J-1.2K-5%
R711	10117-47005	1	47K RES COMP 1-4W 5%	0087	R25J-47K-5%
R713	10117-47004	1	4.7K RES COMP 1-4W 5%	0087	R25J-4.7K-5%
R81	10117-22003	1	220 OHM RES COMP 1-4W 5%	0087	R25J-220-5%
S04	42050-10104	1	SWITCH DIP 4POS SPST	0048	76SB04S
S25	42050-10108	1	SWITCH DIP 8POS SPST	0048	76SB08S
S41,741,742	42050-10101	3	SWITCH DIP 1POS SPST	0093	JS-8794-01
S65	42050-10105	1	SWITCH DIP 5POS SPST	0048	76SB05S
U02,15,43,82,85,87	76600-07410	6	IC TTL TRIPLE 3-INPUT NAND GATE	0107	7410
U03,83,86	76900-07402	3	IC TTL QUAD 2-INPUT NOR GATE	0107	7402
U05,54	76600-07430	2	IC TTL 8-INPUT NAND GATE	0107	7430

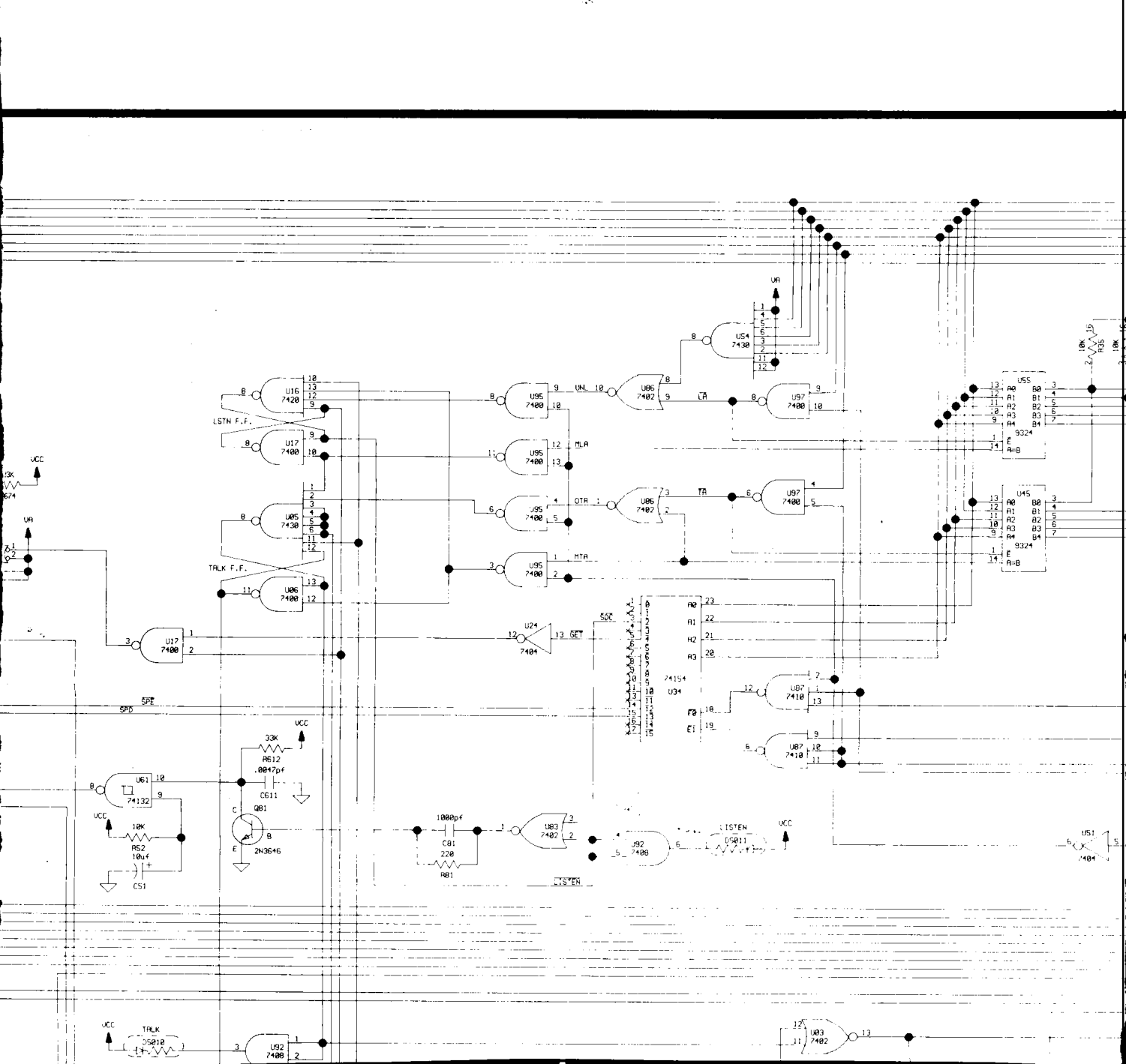
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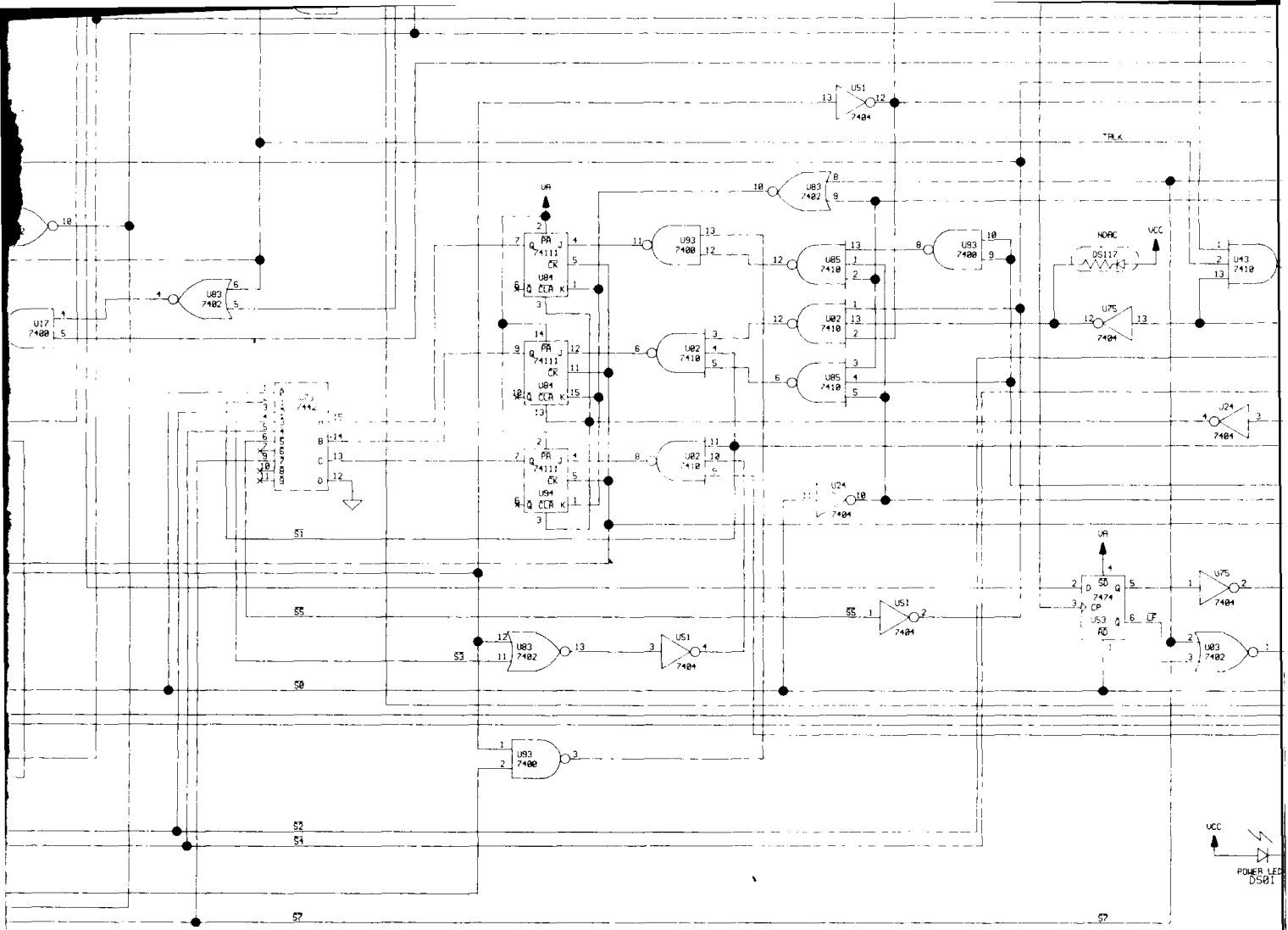
REFERENCE DESIGNATOR	CDS PART NUMBER	QTY.	PART DESCRIPTION	MFG. NUM.	MFG. PART NUMBER
U06,17,56,93,95,97	76600-07400	6	IC TTL QUAD 2-INPUT NAND GATE	0107	7400
U07,36,57	78401-07414	3	IC TTL HEX SCHMITT INVERTING BUFFER	0107	7414
U12,32,52,62	79600-03441	4	IC TTL QUAD INTERFACE BUS TRANSCEIVER	0074	MC3441AP
U13,14,33,63,64,66	73000-74175	6	IC TTL QUAD D-TYPE FLIP-FLOP	0107	74175
U16	76600-07420	1	IC TTL DUAL 4-INPUT NAND GATE	0107	7420
U22,24,42,51,75,76	73300-07404	6	IC TTL HEX INVERTER	0107	7404
U23,45,55	71702-09324	3	IC TTL 5-BIT COMPARATOR	0078	9324-PC
U26,46	79911-74157	2	IC TTL LS QUAD 2-TO-1 LINE DATA SEL-MUX	0107	74LS157
U27,37,47	76601-07438	3	IC TTL QUAD 2-INPUT NAND BUFFER W-OC	0107	7438
U34	79000-09311	1	IC TTL 1-OF-16 DIGITAL DECODER	0107	9311 OR 74154
U53,96	73000-07474	2	IC TTL DUAL D-TYPE EDGE-TRIG FLIP-FLOP	0107	7474
U61	78400-74132	1	IC TTL QUAD 2-INPUT NAND SCHMITT TRIGGER	0107	74132
U72	79606-00556	1	IC TTL DUAL TIMER	0107	NE556A
U73	79000-07442	1	IC TTL BCD-TO-DECIMAL DECODER	0107	7442
U77,81	74200-09601	2	IC TTL RETRIGGERABLE MONOSTABLE	0078	9601
U84,94	73300-74111	2	IC TTL DUAL J-K MASTER-SLAVE FLIP-FLOP	0107	74111
U92	77200-07408	1	IC TTL QUAD 2-INPUT AND GATE	0107	7408
W1,2,3,4,5,6	93517-75397	6	BUS BAR P.75 F.3 X9 L7.2	0090	M-833 9.75.3
X01,02	45010-20100	2	SOCKET SIP 20 PIN	0026	45010-20100

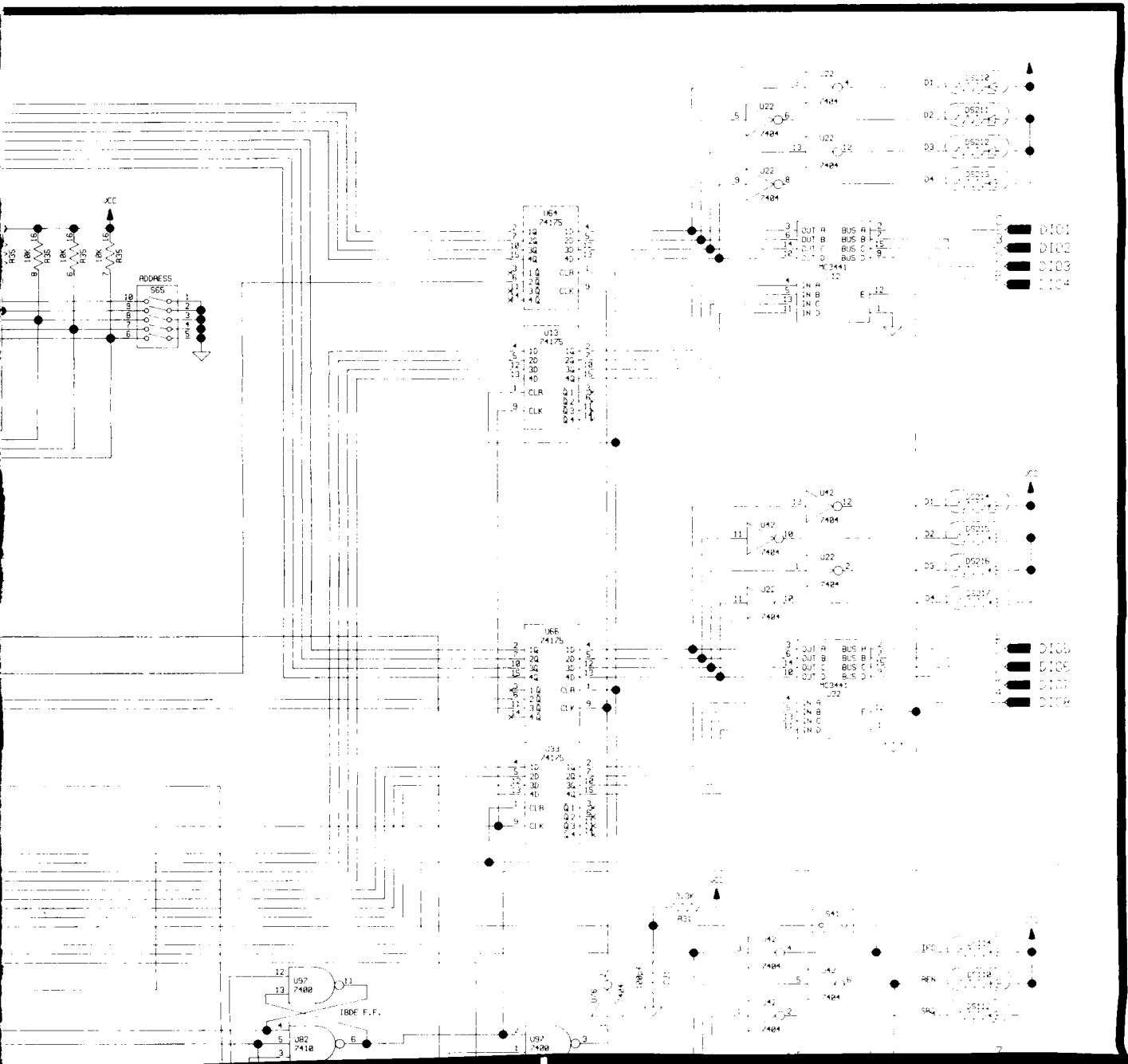

E1
E2
E3
E4
X01
X02
DS010
DS011
DS110
DS111
DS112
DS113
DS114
DS115
DS116
DS117
DS210
DS211
DS212
DS213
DS214
DS215
DS216
DS217
DS01
S01
S25
S65
S41
C31
R31
R41
C51 +
C712 +
C713 +
C711
C612
C613 +
C811
R611
R612
R711
R712
R713
R81
C81
Q81
R231
R232
R52
C53
R53
R84
R74
R27
R47
R671
R672
R673
R674
R675
C67
Q57
Q67
C17 +
F07
U01
U02
U03
U04
U05
U06
U07
U12
U13
U14
U15
U16
U17
U22
U23
U24
U26
U27
U32
U33
U34
R35
U36
U37
U42
U43
U45
U46
U47
U51
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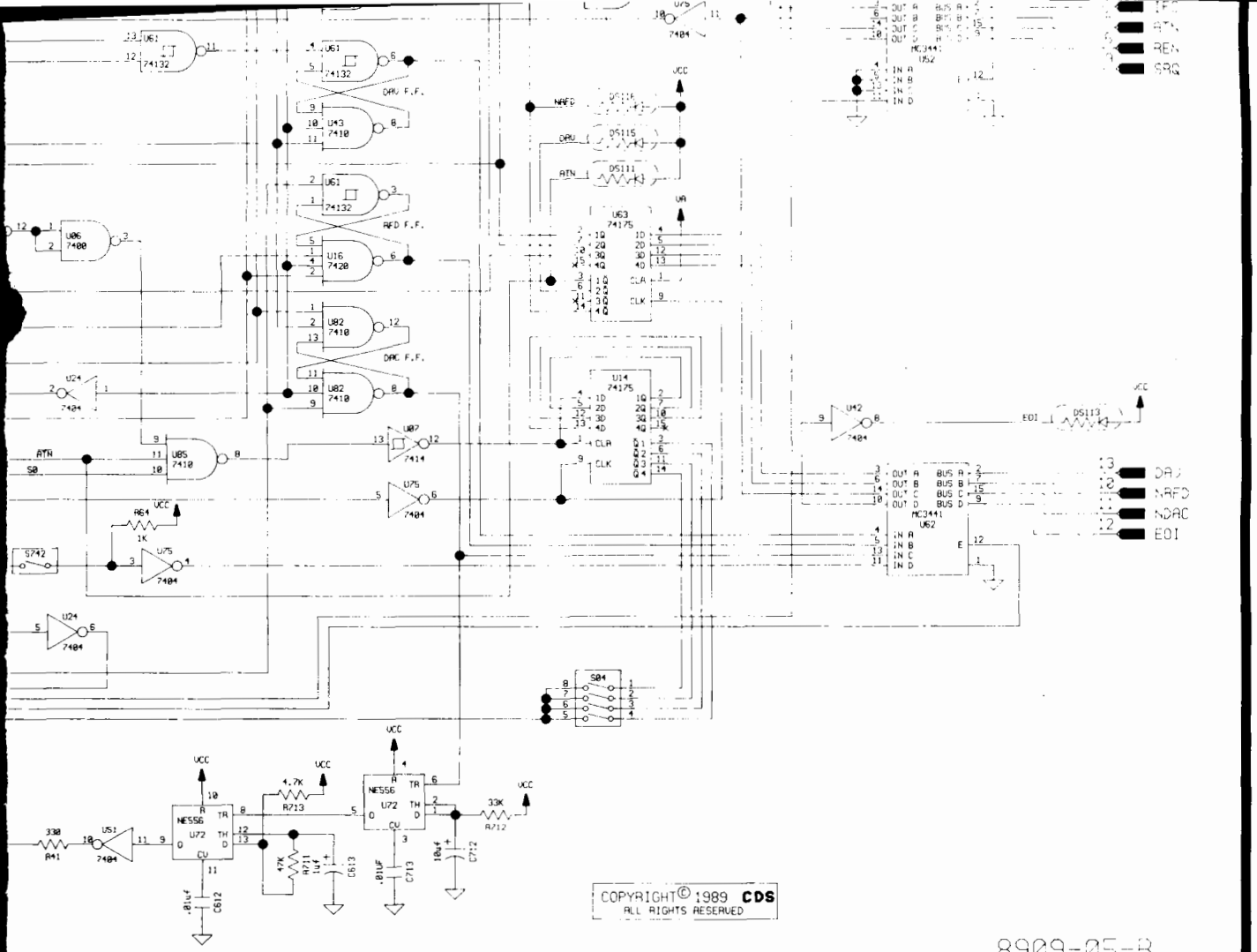

OB0
OB1
OB2
OB3
OB4
OB5
OB6
OB7
ENCODE
BINARY
IB0
IB1
IB2
IB3
IB4
IB5
IB6
+5V
GND
1,2
85,86
1,A
24,H THRU BB
VCC
VR
U37 7438
U47 7438
U87 7414
U36 7414
U56 7400
U76 7404
U75 7404
U87 7410
U26 74LS157
U46 74LS157
U23 9324
U77 9601
Q57 2N4237
Q67 2N3646
CR67 1N4148
F07
R673 100
R672 150
R675 1.2K
R53 1K
R231 0
R232 10K
R35 10K
C53 .1uf
C17 150uf
C67 .047uf
C01,C02,C041,C042, C05,C06,C91,C92, C93,C94,C95,C96


IB7
40
U56
7400
10K
R35
10K
R35
POLLING
RESPONSE
SWITCHES
S25
U86
7402
U83
7402
2 MHZ
58
U57
7414
I/O
4
U27
7438
U86
7400
U24
7404
STOP
47
U27
7438
PUE+TE+SDC
U86
7400
SPE
SPE F.F.
U15
7410
SPS
U94
CLR
PR
7474
CP
CR
U93
ENB F.F.
RFI
48
U76
7404
U43
7410
U92
7408
RFI ENABLE F.F.
VCC
1K
R27
U27
7438
S741
10K
R24
VCC
4.99K
R611
1000pF
C711
U81
9601
FLAG
24
U57
7414
U86
7402
CNTL FLG
45
U57
7414
U92
7408
U07
7414
U96
7474
U76
7404
U17
7400
VCC
3K
R47
CHAIN IN
42
U57
7414
3K
R671
CH FLG
56
U57
7414
U76
7404
U96
7474
U93
7400
CNTL
5
U27
7438
U15
7410
CNTL F.F.
U15
7410


VA
U54
7430
U16
7420
U17
7400
LSTN F.F.
U95
7400
UNL
U86
7402
LA
U97
7400
MLA
OTA
TA
U05
7430
TALK F.F.
U06
7400
MTA
U24
7404
GET
SDC
U34
74154
A0
A1
A2
A3
E0
E1
U87
7410
U55
U45
9324
A=B
SPE
SPD
VCC
33K
R612
.0047pf
C611
Q81
2N3646
U61
74132
10K
R52
10uf
C51
100pf
C81
220
R81
U83
7402
U92
7408
LISTEN
D5011
TALK
D5010
U03
7402
U51
7404


U51
7404
*RLK
VA
U83
7402
U93
7400
U85
7410
U02
7410
U84
74111
U94
74111
U17
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U75
7404
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VCC
DS117
U43
7410
U24
7404
U74
7474
U53
74LS
U03
7402
S1
S2
S3
S4
S5
S6
S7
POWER LED
DS01


VCC
ADDRESS
565
R35
10K
U64
74175
U13
74175
U66
74175
U33
74175
U22
7404
U42
7404
U97
7400
U82
7410
IBDE F.F.
U16
7414
U41
7442
MC3441
OUT A
OUT B
OUT C
OUT D
BUS A
BUS B
BUS C
BUS D
IN A
IN B
IN C
IN D
D1
D2
D3
D4
DS212
DS213
DS214
DS215
DS216
DS217
DI01
DI02
DI03
DI04
DI05
DI06
DI07
DI08
IBF
REN
SR
CLR
CLK



8909-05-B

REVISION LEVEL	ECO #	REVISION LEVEL	ECO #
8909-05-B	1117	8604-02-A	406
		8705-02-B	536
		8802-02-C	648
		8804-03-A	649
		8901-03-B	919
		8903-04-A	920
		8907-04-B	1059
		8908-05-A	1060

COLORADO DATA SYSTEMS

PART NO.: 53A-128

DESCRIPTION: IEEE 488 COMM CARD

P.C.B. NUMBER: 41530-12802

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