

ALP 80														ORG. FORMAT				MAN		
5 0180-01	A	B	C	D	E	F	G	H	I	J	K	L	M	N	A1	A2	A3	A4	A3	A4
SCHEMATIC	X																	2		2
ASSY DRWG	X																	1		1
PINOUTS	X																	1		1
BLOCKDIAGRAMM																				

ALP 80A														ORG. FORMAT				MAN		
5 9004-01	A	B	C	D	E	F	G	H	I	J	K	L	M	N	A1	A2	A3	A4	A3	A4
SCHEMATIC	X																	1		1
ASSY DRWG	X																	1		1
PINOUTS																				
BLOCKDIAGRAMM																				

MASTER SCHEMATIC 3250														ORG. FORMAT				MAN		
5 3250-01	A	B	C	D	E	F	G	H	I	J	K	L	M	N	A1	A2	A3	A4	A3	A4
SCHEMATIC					X										2		1			3
ASSY DRWG					X												1			1
PINOUTS																		1		1
BLOCKDIAGRAMM																				

TIMEBASE														ORG.FORMAT				MAN		
5 3250-03	A	B	C	D	E	F	G	H	I	J	K	L	M	N	A1	A2	A3	A4	A3	A4
SCHEMATIC				X												1	1			2
ASSY DRWG				X													1			1
PINOUTS																		2		2
BLOCKDIAGRAMM																				

INPUT BOARD														ORG.FORMAT				MAN		
5 3250-03	A	B	C	D	E	F	G	H	I	J	K	L	M	N	A1	A2	A3	A4	A3	A4
SCHEMATIC				X													2	1		3
ASSY DRWGAC/BD				X													2			2
PINOUTS																		1		1
BLOCKDIAGRAMM																				

KEYBOARD														ORG. FORMAT				MAN		
5 3250-04	A	B	C	D	E	F	G	H	I	J	K	L	M	N	A1	A2	A3	A4	A3	A4
SCHEMATIC			X														1	1		2
ASSY DRWG			X														1			1
PINOUTS																		1		1
BLOCKDIAGRAMM																				

CPU BOARD														ORG. FORMAT				MAN		
5 3250-05	A	B	C	D	E	F	G	H	I	J	K	L	M	N	A1	A2	A3	A4	A3	A4
SCHEMATIC		X														1		1		2
ASSY DRWG		X															1			1
PINOUTS																		2		2
BLOCKDIAGRAMM																	1			1

MEMORY BOARD 1														ORG. FORMAT				MAN		
5 3250-06	A	B	C	D	E	F	G	H	I	J	K	L	M	N	A1	A2	A3	A4	A3	A4
SCHEMATIC	X															1		1		2
ASSY DRWG	X																1			1
PINOUTS																		1		1
BLOCKDIAGRAMM																				

MENORY BOARD 2														ORG. FORMAT				MAN		
5 3250-07	A	B	C	D	E	F	G	H	I	J	K	L	M	N	A1	A2	A3	A4	A3	A4
SCHEMATIC	X															1		1		2
ASSY DRWG	X																1			1
PINOUTS																		1		1
BLOCKDIAGRAMM																				

RASTER COUNTER														ORG.FORMAT				MAN		
5 4850-03	A	B	C	D	E	F	G	H	I	J	K	L	M	N	A1	A2	A3	A4	A3	A4
SCHEMATIC									X							1	1			2
ASSY DRWG									X								1			1
PINOUTS																		1		1
BLOCKDIAGRAMM																	1			1

CHARACTER BOARD														ORG.FORMAT				MAN		
5 4850-04	A	B	C	D	E	F	G	H	I	J	K	L	M	N	A1	A2	A3	A4	A3	A4
SCHEMATIC							X								1		1			2
ASSY DRWG							X										1			1
PINOUTS																		1		1
BLOCKDIAGRAMM																	1			1

SBLA BOARD														ORG.FORMAT				MAN		
5 4850-06	A	B	C	D	E	F	G	H	I	J	K	L	M	N	A1	A2	A3	A4	A3	A4
SCHEMATIC									X							1	1			2
ASSY DRWG									X								1			1
PINOUTS																		1		1
BLOCKDIAGRAMM																	1			1

CONTROL BOARD														ORG. FORMAT				MAN		
5 4850-07	A	B	C	D	E	F	G	H	I	J	K	L	M	N	A1	A2	A3	A4	A3	A4
SCHEMATIC								X								2	1			3
ASSY DRWG								X									1			1
PINOUTS																		1		1
BLOCKDIAGRAMM																	1			1

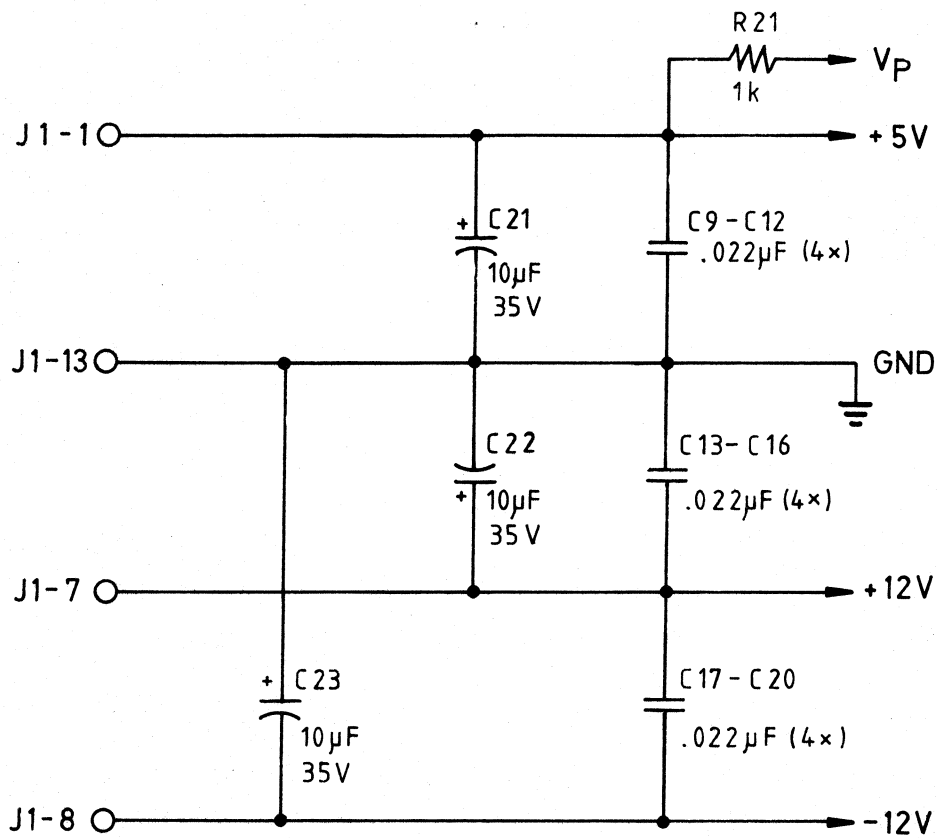
GPIB/THRESHOLD BOARD														ORG. FORMAT				MAN		
5 4850-08 A2	A	B	C	D	E	F	G	H	I	J	K	L	M	N	A1	A2	A3	A4	A3	A4
SCHEMATIC							X										3			3
ASSY DRWG							X										1			1
PINOUTS																		2		2
BLOCKDIAGRAMM																				

TRIGGER BOARD														ORG. FORMAT				MAN		
5 4850-10	A	B	C	D	E	F	G	H	I	J	K	L	M	N	A1	A2	A3	A4	A3	A4
SCHEMATIC									X							2	1			3
ASSY DRWG									X								1			1
PINOUTS																		1		1
BLOCKDIAGRAMM																	1			1

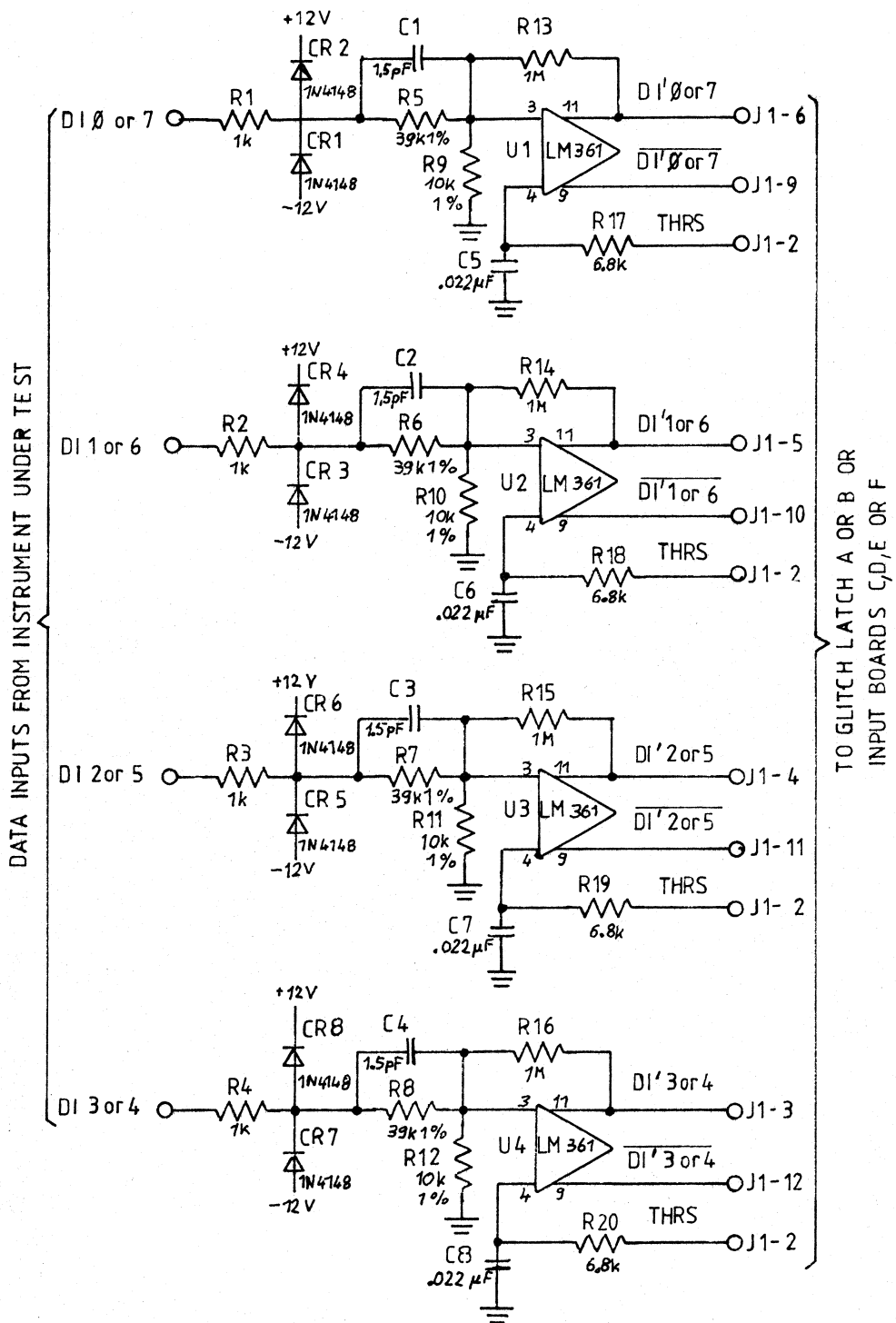
MONITOR 3Q														ORG.FORMAT				MAN		
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	A1	A2	A3	A4	A3	A4
SCHEMATIC																1				1
ASSY DRWG																2				2
PINOUTS																		1		1
BLOCKDIAGRAMM																				

MONITOR TM														ORG.FORMAT				MAN		
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	A1	A2	A3	A4	A3	A4
SCHEMATIC																	4			4
ASSY DRWG																	5			5
PINOUTS																				
BLOCKDIAGRAMM																				

GPIB BUS CONNECTOR AND VIDEO CONNECTOR														ORG.FORMAT				MAN		
4850-10 5/6of9	A	B	C	D	E	F	G	H	I	J	K	L	M	N	A1	A2	A3	A4	A3	A4
SCHEMATIC																				
ASSY DRWG																				
PINOUTS																		2		2
BLOCKDIAGRAMM																				



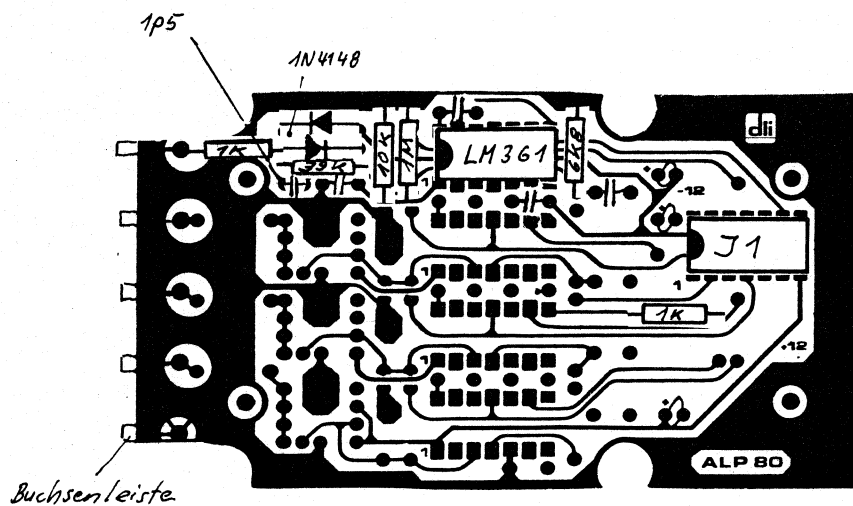
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DATE		NAME			
REVISIONS		DATE			
CODE	ERN	CHECK	DRAWN	ALP 80	
PART NUMBER				SHEET	
5 0180-01					

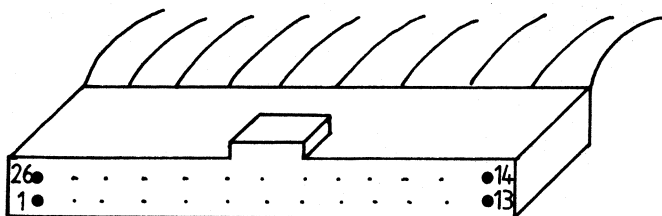
POS.	ITEM	QTY.	POS.	ITEM	QTY.
	LM 361 / NE 529	4		Buchsenleiste sp. (Comatel)	1
	1N4148	8			
	1K Ω	5			
	1M Ω	4			
	6K8	4			
	10K Ω 1%	4			
	39K Ω 1%	4			
	1p5	4			
	22nF	16			
	10 μ F / 35V (Tantal)	3			

Mengenangabe nur für eine Leiterplatte

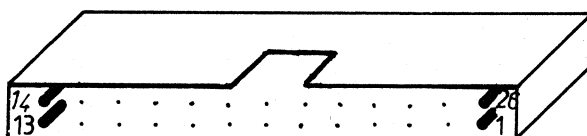


CODE	ERN	DATE	REVISIONS	DATE	NAME		ASS'Y DRAWING - PART LIST ALP 80	PART NUMBER 5 0180 - 01A	SHEET 1
CHECK	DRAWN	19.9.80	CLGUS						

PIN ASIGNET
ALP CONNECTOR
ALP SIDE



PIN ASSIGNEMENT
ALP INPUT
CONNECTOR
LAM SIDE



+12V	7	8	-12 V
DI'Ø OR 7	6	9	DI'Ø OR 7
DI'1 OR 6	5	10	DI'1 OR 6
DI'2 OR 5	4	11	DI'2 OR 5
DI'3 OR 4	3	12	DI'3 OR 4
THRS	2	13	GND
+5V	1	14	

INPUT CONNECTOR ALP

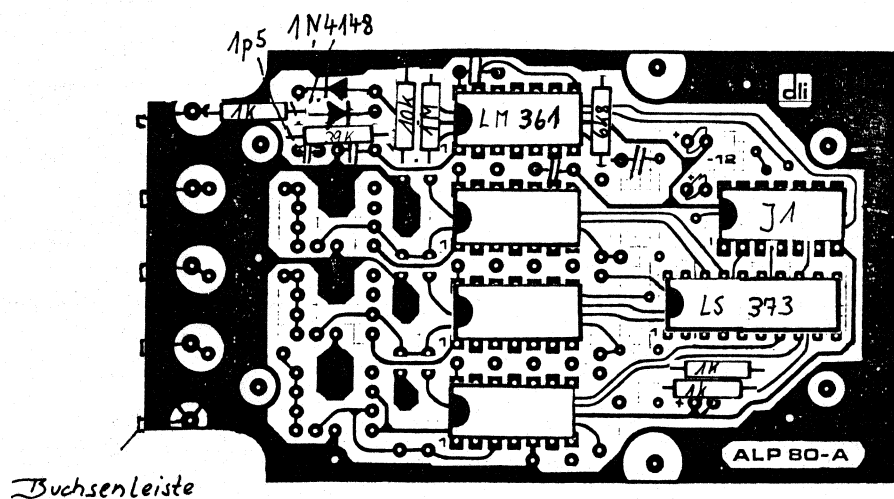
+12V	13	14	-12V
DI'Ø	12	15	DI'Ø
DI'1	11	16	DI'1
DI'2	10	17	DI'2
DI'3	9	18	DI'3
THRES	8	19	GND
+5V	7	20	+5V
GND	6	21	THRES
DI'4	5	22	DI'4
DI'5	4	23	DI'5
DI'6	3	24	DI'6
DI'7	2	25	DI'7
-12V	1	26	+12V

				ALP 80			
				PART NUMBER			
				5 0180 - 01			
				SHEET			
				1 / 1			

CODE	ERN	DATE	REVISIONS	DATE	NAME
CHECK	DRAWN				

POS.	ITEM	QTY	POS.	ITEM	QTY
	LM 361	4		1p5	4
				22nF	16
	1N4148	8			
				10 μ F/35V (Tantal)	3
	1K Ω	6			
	1M Ω	4		Buchsenleiste 5pol. (comatl)	1
	6K8	4			
	10K 1%	4		74 LS 373	1
	39K 1%	4			

Mengenangabe nur für eine
Leiterplatte



				Maßstab		LAM 4850	
				ASS'Y DRAWING - PART LIST			
				Datum	Name		
				Bearb.			
				Gepr.			
				Norm			
						ALP 80-A	
						Blatt	
						BL	
Zust.	Änderung	Datum	Name				

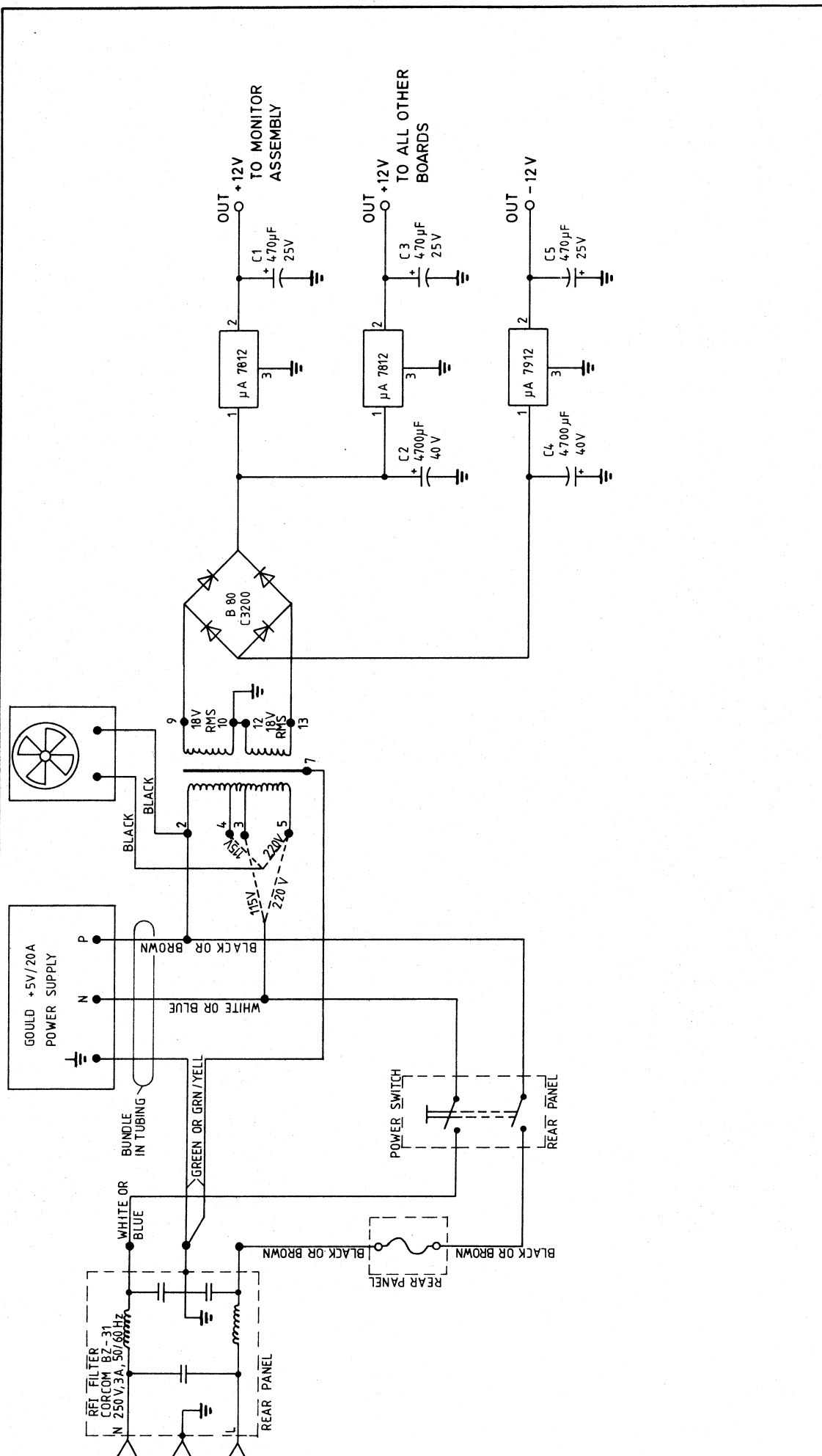


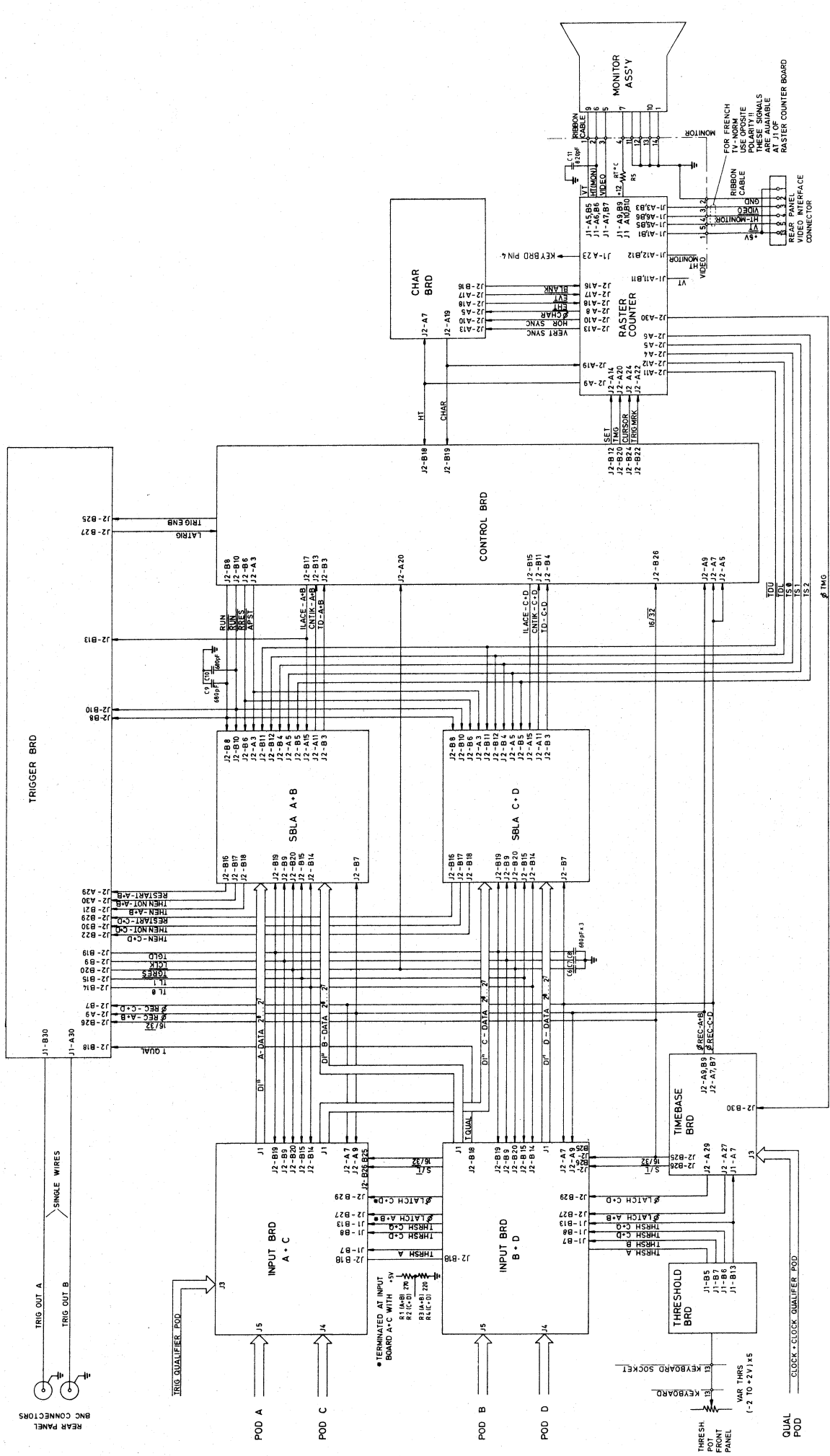
MASTER SCHEMATIC

3250

REVISIONS		DRAWN		SHEET	
CODE	DATE	NAME	DATE	1	3
A	6.5.80		6.5.80		
B	10.6.80				
E	15.5.81				

PART NUMBER	
5	3250-01





DOLCH LOGIC INSTRUMENTS	
MASTER SCHEMATIC	
3250	
CHECK	DRAWN
DATE	DATE
REVISION	REVISION
CODE	REV
BY	BY
DATE	DATE
1.80	10.6.80
5	REV 8/81
PART NUMBER	SHEET
5 3250-01	3 3

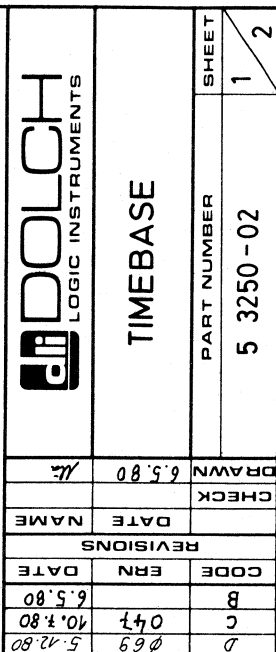
REMOTE PORT 6	8	9	RESET
GND	7	10	GPIB INTER
	6	11	
	5	12	
	4	13	
REMOTE PORT 0	3	14	
SERIAL IN			
REMOTE PORT 2	2	15	
SERIAL OUT			
GND	1	16	

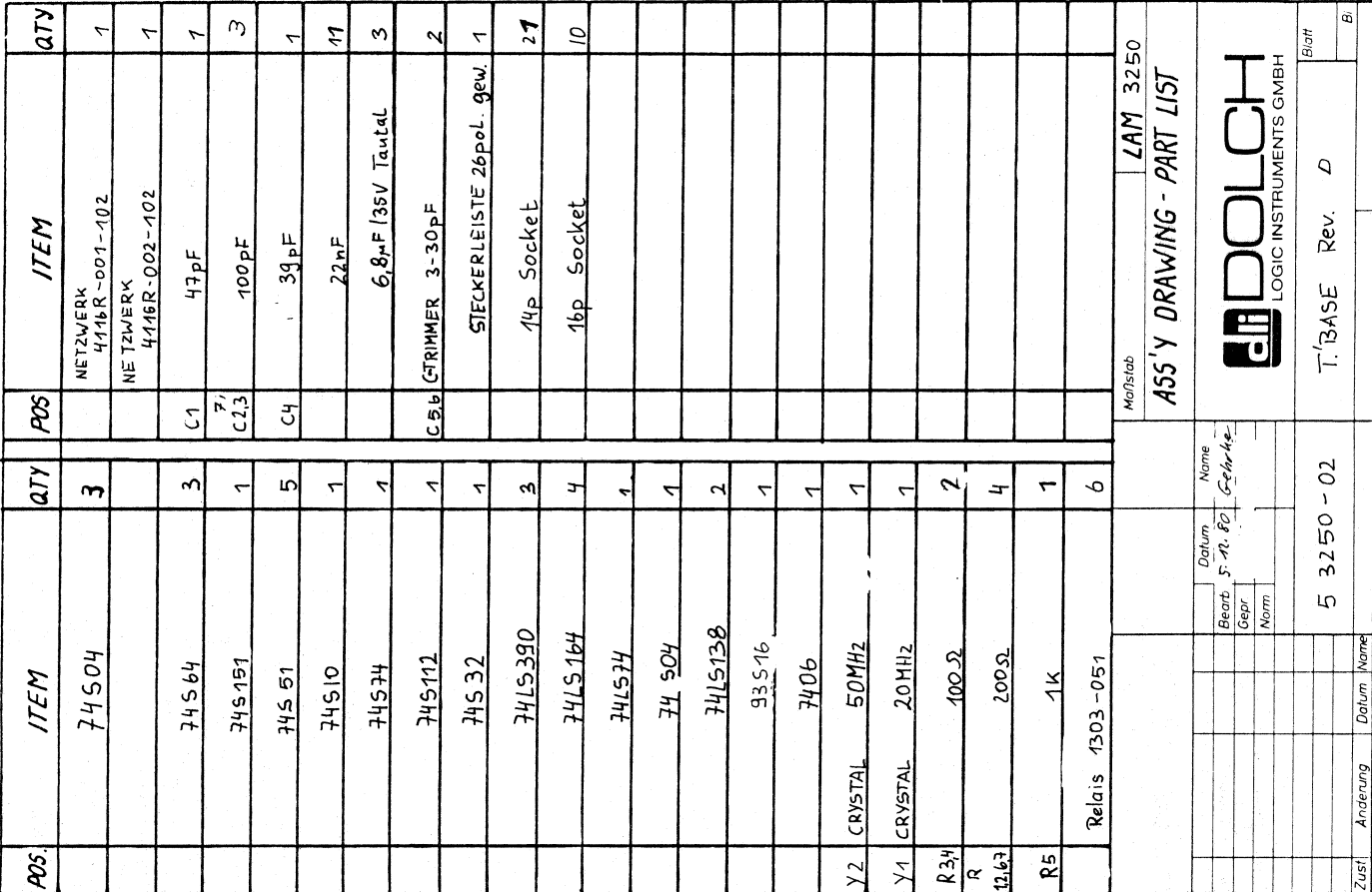
+12V	13	14	-12V
C0=I/O-RD	12	15	C2=I/O-WR
A 1	11	16	A 0
A 3	10	17	A 2
A 5	9	18	A 4
A 7	8	19	A 6
D 7	7	20	D 6
D 5	6	21	D 4
D 3	5	22	D 2
D 1	4	23	D 0
BRDS 0	3	24	KEYBDS
NC	2	25	+5V
GND	1	26	GND

5 4850 - 01
SHEET

KEYBOARD	3
MONITOR	3
VIDEO INTERFACE	3
RS 323 / V24	4
GPIB	5
VIDEO INTERFACE	6
MONITOR	9

		DATE					
		REVISIONS		NAME			
		DATE				MOTHERBOARD	
		CODE		CHECK		PART NUMBER	
		ERN		DRAWN		5 3250 - 01	
						SHEET	
						1 / 1	





A J1 B

+5V	1	+5V
+5V	2	+5V
	3	BRDS 0
	4	BRDS 1
	5	BRDS 2
	6	BRDS 3
	7	BRDS 4
	8	BRDS 5
	9	BRDS 6
	10	
	11	
	12	
	13	
-12V	14	-12V
-12V	15	-12V
+12V	16	+12V
+12V	17	+12V
C7=MRKLD	18	C6=CACKN
C5=CRDY	19	C4=CHAR RD
C3=ACKN	20	C2=I/O-WR
C1=DATA RDY	21	C0=I/O-RD
A 1	22	A 0
A 3	23	A 2
A 5	24	A 4
A 7	25	A 6
D 7	26	D 6
D 5	27	D 4
D 3	28	D 2
D 1	29	D 0
GND	30	
GND	31	GND
	32	GND

A J2 B

GND	1	GND
GND	2	GND
	3	
	4	
NC	5	NC
	6	
0 REC C+D	7	0 REC C+D
	8	
0 REC A+B	9	0 REC A+B
	10	
	11	
	12	
	13	
	14	
	15	
	16	
	17	
	18	
	19	
	20	
	21	
	22	
	23	
	24	
	25	16/32
	26	SAMPLE/LATCH
0 LATCH A+B	27	0 LATCH A+B
	28	
0 LATCH C+D	29	0 LATCH C+D
	30	0 TMG
+5V	31	+5V
+5V	32	+5V

DATE	NAME	CHECK	DRAWN
REVISIONS	DATE	CHECK	DRAWN
CODE	ERZ	CHECK	DRAWN



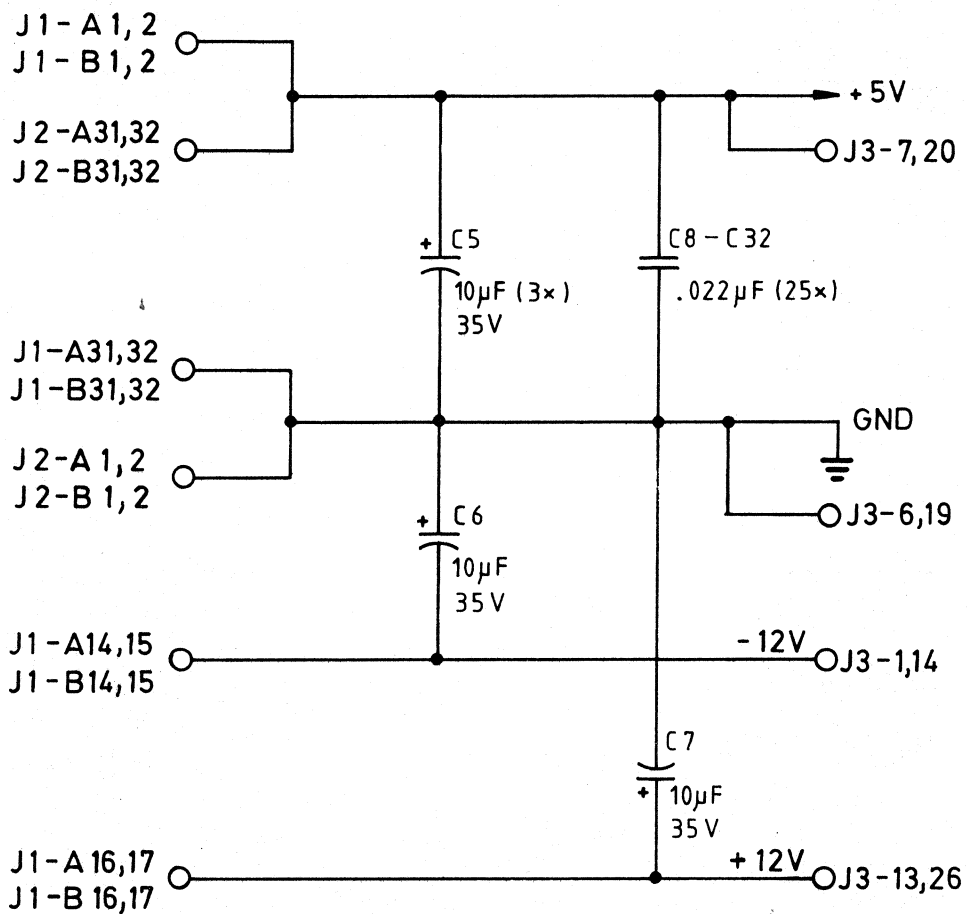
TIMEBASE

PART NUMBER	SHEET
5 3250 - 02	1 2

J 3

+12V	13	14	-12V
CLK 0+	12	15	CLK 0-
Q 1-	11	16	Q 1+
Q 2-	10	17	Q 2+
Q 3-	9	18	Q 3+
THRS C+O	8	19	GND
+5V	7	20	+5V
GND	6	21	THRES C+O
CLK 4-	5	22	CLK 4+
Q 5+	4	23	Q 5-
Q 6+	3	24	Q 6-
Q 7+	2	25	Q 7-
-12V	1	26	+12V

		DATE					
		REVISIONS					
		DATE		NAME		TIMEBASE	
		CODE		CHECK		PART NUMBER	
				DRAWN		SHEET	
						2 / 2	
						5 3250 - 02	



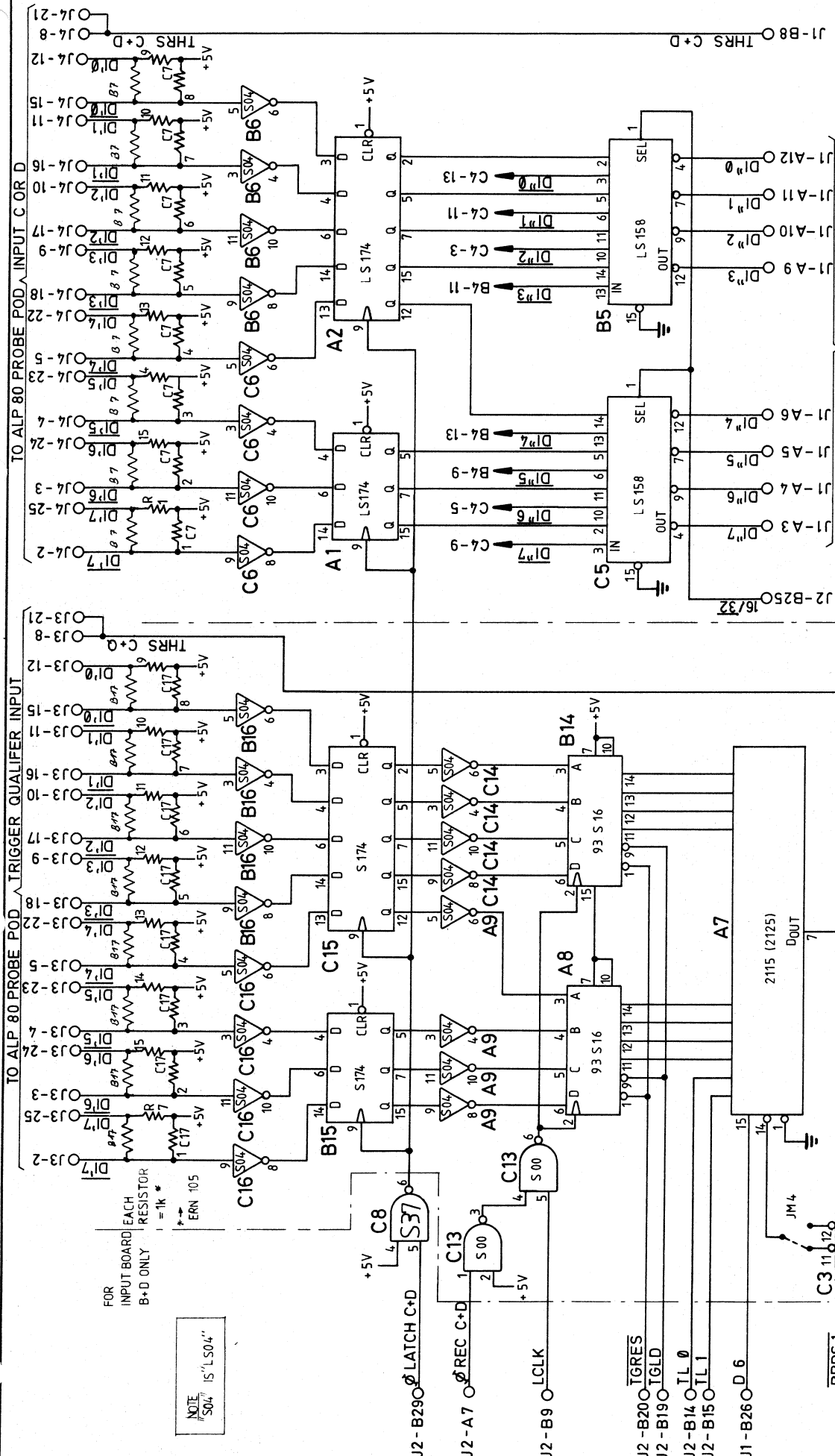
24.6.81		6.8.80		6.5.80		6.5.80			
D	B	A	CODE	ER	N	DATE	NAME	DATE	INPUT BOARD
CHECK DRAWN 6.5.80 <i>Mc</i>									

TO ALP 80 PROBE POD TRIGGER QUALIFIER INPUT

TO ALP 80 PROBE POD INPUT C OR D

FOR
INPUT BOARD
B+D ONLY
= 1k *
ERN 105

NOTE
S04 IS "LS04"



DOLCH
LOGIC INSTRUMENTS

INPUT BOARD

REVISIONS		CHECK	DRAWN
CODE	DATE	DATE	NAME
A	6.5.80		
C	10.7.80		

PART NUMBER		SHEET
5 3250 - 03		2 3

J1-A13 BRDS 1

J1-B20 I/O-WR

J2-B20 IGRES

J2-B19 TGLD

J2-B14 IL 0

J2-B15 TL 1

J1-B26 D 6

J1-A23 A3

J1-B23 A2

J1-A22 A1

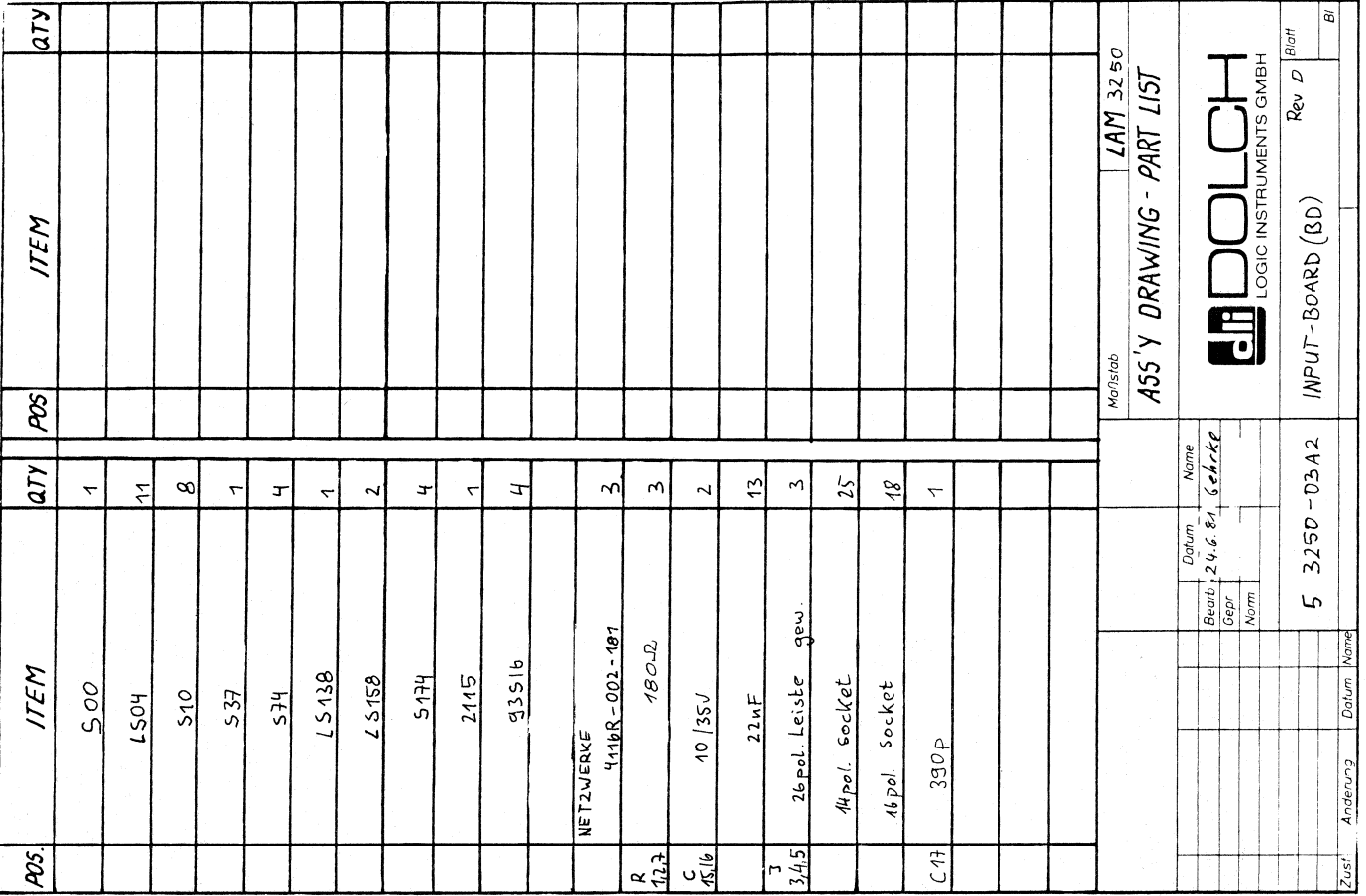
J1-B22 A0

J2-B18 TUAL

J1-B13 THRS C+Q

J2-B25 16/32

J1-B8 THRS C+D



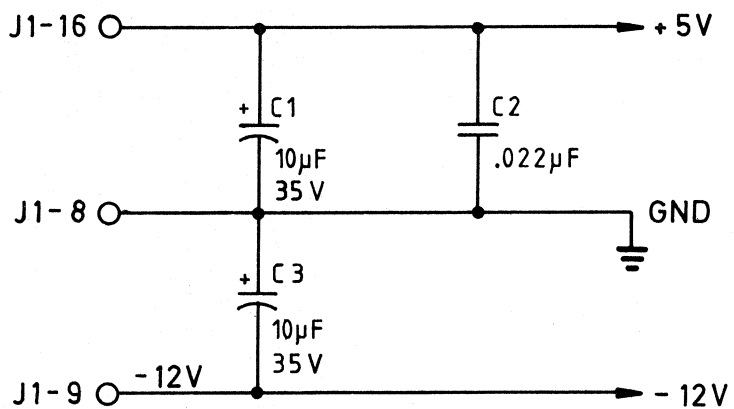
J 3,J 4,J 5, = ALP 80 CONNECTOR

A		J1	B
+5V		1	+5V
+5V		2	+5V
DI"C 7 OR DI"D 7		3	DI"A 7 OR DI"B 7
DI"C 6 OR DI"D 6		4	DI"A 6 OR DI"B 6
DI"C 5 OR DI"D 5		5	DI"A 5 OR DI"B 5
DI"C 4 OR DI"D 4		6	DI"A 4 OR DI"B 4
		7	THRS A OR THRS B
		8	THRS C+D
DI"C 3 OR DI"D 3		9	DI"A 3 OR DI"B 3
DI"C 2 OR DI"D 2		10	DI"A 2 OR DI"B 2
DI"C 1 OR DI"D 1		11	DI"A 1 OR DI"B 1
DI"C 0 OR DI"D 0		12	DI"A 0 OR DI"B 0
BRDS1		13	THRS C+Q
-12V		14	-12V
-12V		15	-12V
+12V		16	+12V
+12V		17	+12V
		18	
		19	
		20	I/O-WR
		21	
A 1		22	A 0
A 3		23	A 2
		24	
		25	
		26	D 6
		27	
		28	
		29	
		30	
GND		31	GND
GND		32	GND

A	J2	B
	1	GND
	2	GND
	3	APST
	4	
	5	
	6	
	7	
	8	
	9	LCLK
	10	
	11	
	12	
	13	
	14	TL 0
	15	TL 1
	16	
	17	
	18	TQUAL
	19	TGLD
	20	TGRES
	21	
	22	
	23	
	24	
	25	16/32
	26	SAMPLE/LATCH
	27	0 LATCH A OR 0 LATCH B
	28	
	29	0 LATCH C OR 0 LATCH D
	30	
	31	+5V
	32	+5V

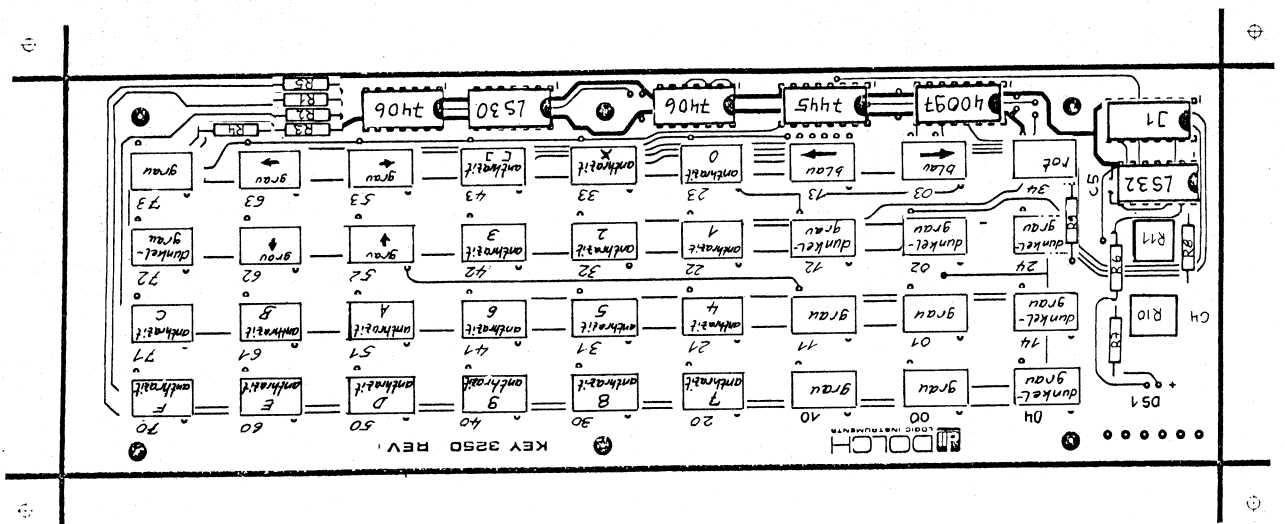
DATE	NAME	REVISIONS	CHECK	DRAWN

		INPUT BOARD	
PART NUMBER	5 3250 - 03	SHEET	1/1



C	A	CODE	REVISIONS		CHECK DRAWN	DATE	NAME		KEYBOARD	PART NUMBER	SHEET
			ERN	DATE							
						6.5.80	Li			5 3250-04	1/2

LHM 3250



POS.	ITEM	QTY	POS	ITEM	QTY
	7406	2		TASTEN 6450 0006 (CROT)	1
	L530	1		TASTEN 6450 0001 (GRAU) $\leftrightarrow$	4
	L532	1		TASTE 6450 0003 (BLAU) TEIL (L)	1
	7445	1		TASTE 6450 0001 (CROT)	1
	L5367/40097/80097	1			
R1-5	470 Ω	5			
R6	330 Ω	1			
R7	120 Ω	1			
R8	2K2	1			
R9	10K	1			
R10	TRIMMER 100K	1			
R11	TRIMMER 5K	1			
C4	1nF	1			
	10nF Tantal 35V	1			
	22nF	2			
D51	LED (gr.)	1			
J1	16pol FIACHBANKABEL	1			
	TASTEN 6450 0001 (GRAU)	5			
	TASTEN 6450 0003 (DUNKELGRAU)	6			
	TASTEN 6450 0005 (ANTHRAZIT) 0-9	10			
	TASTEN 6450 0005 (ANTHRAZIT) A-F	6			
	TASTEN 6450 0005 (ANTHRAZIT) X / L	2			

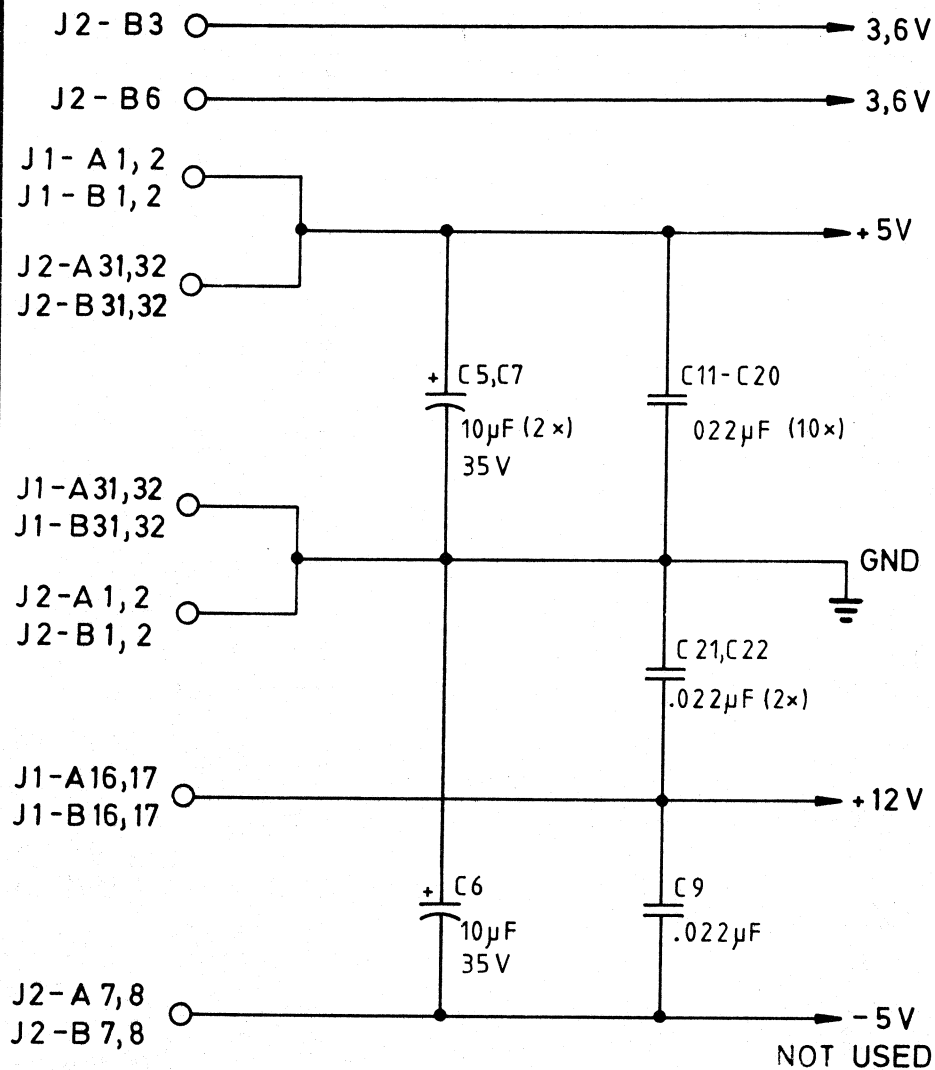
Mafislab		LAM 3250	
ASS'Y DRAWING - PART LIST			
Name	Datum	Bearb.	Gepr.
6444	4.6.81		
Norm			
5-3250-041		Rev.C	
Zust.	Änderung	Datum	Name

		LOGIC INSTRUMENTS GMBH	
KEYBOARD		Blatt	
		Rev.C	
		Bl	

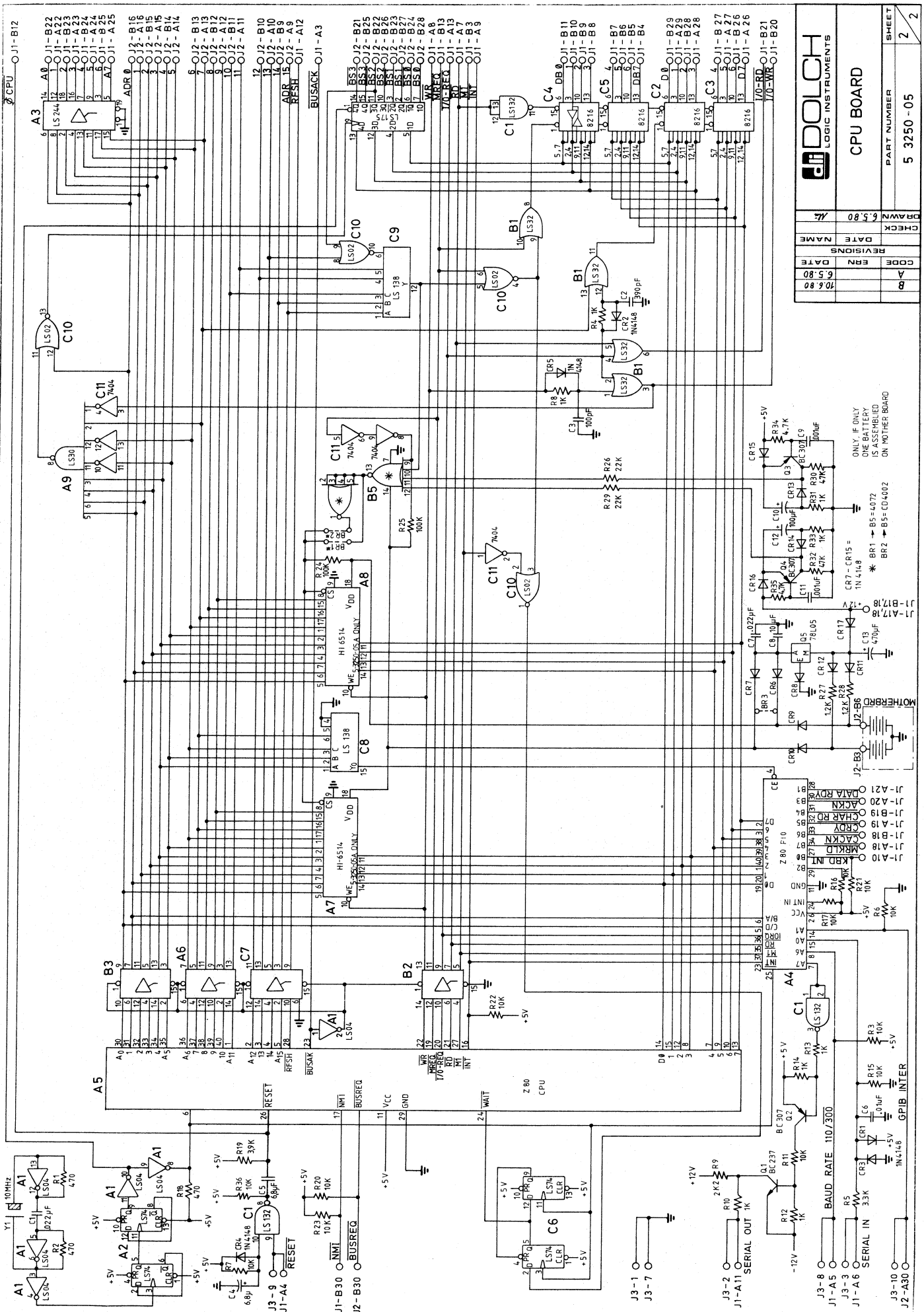
J 3

GND	8	9	-12 V
A 1	7	10	$\overline{\text{BRDS}} \emptyset$
A $\emptyset$	6	11	A 2
$\overline{\text{I/O-RD}}$	5	12	KEYBD INT
$\overline{\text{KEYBDS}}$	4	13	D 5
D 4	3	14	D 3
D 2	2	15	D 1
D $\emptyset$	1	16	+5V

[illegible]



10.6.80		6.5.80		DATE		NAME		N.			
B		A		ERN		DATE		CHECK		CPU BOARD	
CODE		DATE		DRAWN		6.5.80		PART NUMBER		SHEET	
5		3250-05		1		2					



CODE		REVISIONS	CHECK	SHEET	
A	10.6.80	DATE	NAME	5 3250-05	2
B	6.5.80	DATE	NAME	5 3250-05	2

CODE		REVISIONS	CHECK	SHEET	
A	10.6.80	DATE	NAME	5 3250-05	2
B	6.5.80	DATE	NAME	5 3250-05	2

CODE		REVISIONS	CHECK	SHEET	
A	10.6.80	DATE	NAME	5 3250-05	2
B	6.5.80	DATE	NAME	5 3250-05	2

CODE		REVISIONS	CHECK	SHEET	
A	10.6.80	DATE	NAME	5 3250-05	2
B	6.5.80	DATE	NAME	5 3250-05	2

CODE		REVISIONS	CHECK	SHEET	
A	10.6.80	DATE	NAME	5 3250-05	2
B	6.5.80	DATE	NAME	5 3250-05	2

CODE		REVISIONS	CHECK	SHEET	
A	10.6.80	DATE	NAME	5 3250-05	2
B	6.5.80	DATE	NAME	5 3250-05	2

CODE		REVISIONS	CHECK	SHEET	
A	10.6.80	DATE	NAME	5 3250-05	2
B	6.5.80	DATE	NAME	5 3250-05	2

CODE		REVISIONS	CHECK	SHEET	
A	10.6.80	DATE	NAME	5 3250-05	2
B	6.5.80	DATE	NAME	5 3250-05	2

CODE		REVISIONS	CHECK	SHEET	
A	10.6.80	DATE	NAME	5 3250-05	2
B	6.5.80	DATE	NAME	5 3250-05	2

CODE		REVISIONS	CHECK	SHEET	
A	10.6.80	DATE	NAME	5 3250-05	2
B	6.5.80	DATE	NAME	5 3250-05	2

A J1 B

+5V	1	+5V
+5V	2	+5V
BUSACK	3	M 1
RESET	4	DB 7
BAUDE RATE	5	DB 6
SERIAL IN	6	DB 5
RD	7	DB 4
WR	8	DB 3
INT	9	DB 2
KEYBD INT	10	DB 1
SERIAL OUT	11	DB 0
REFSH	12	0
I/O-REQ	13	MREQ
-12V	14	-12V
-12V	15	-12V
+12V	16	+12V
+12V	17	+12V
C7=MRKLD	18	C6=CAKN
C5=CRDY	19	C4=CHAR RD
C3=ACKN	20	C2=I/O-WR
C1=DATA RDY	21	C0=I/O-RD
A 1	22	A 0
A 3	23	A 2
A 5	24	A 4
A 7	25	A 6
D 7	26	D 6
D 5	27	D 4
D 3	28	D 2
D 1	29	D 0
	30	NMI
GND	31	GND
GND	32	GND

A J2 B

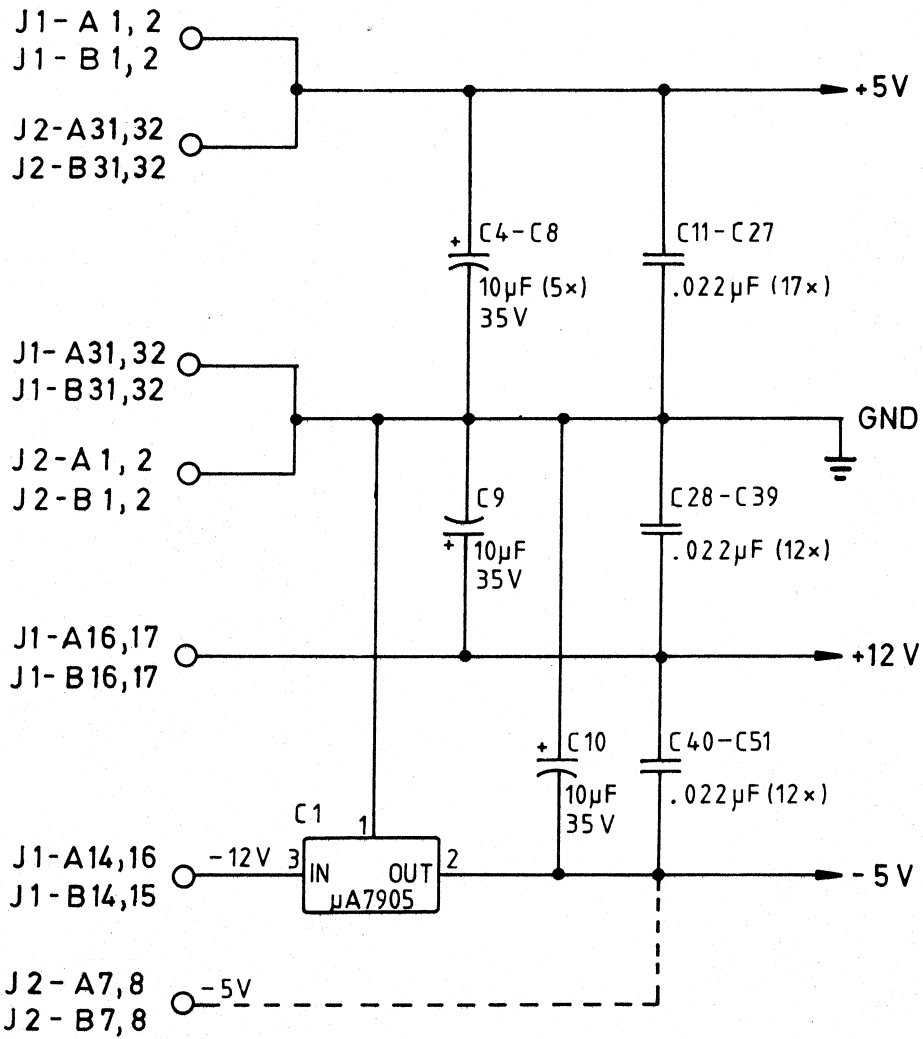
GND	1	GND
GND	2	GND
	3	BATTERY 1 +3,6V
	4	
	5	
	6	BATTERY 2 +3,6V
-5V	7	-5V
-5V	8	-5V
ADR 15	9	ADR 14
ADR 13	10	ADR 12
ADR 11	11	ADR 10
ADR 9	12	ADR 8
ADR 7	13	ADR 6
ADR 5	14	ADR 4
ADR 3	15	ADR 2
ADR 1	16	ADR 0
	17	
	18	
	19	
	20	
	21	BS 3
	22	BS 2
	23	BS 1
	24	BS 0
	25	BS 3
	26	BS 2
	27	BS 1
	28	BS 0
	29	
GPIB INTER	30	BUSREQ
+5V	31	+5V
+5V	32	+5V

		CPU BOARD	
DATE	REVISIONS	CHECK	DRAWN
NAME	DATE	PART NUMBER	SHEET
		5 3250 - 05	1 / 2

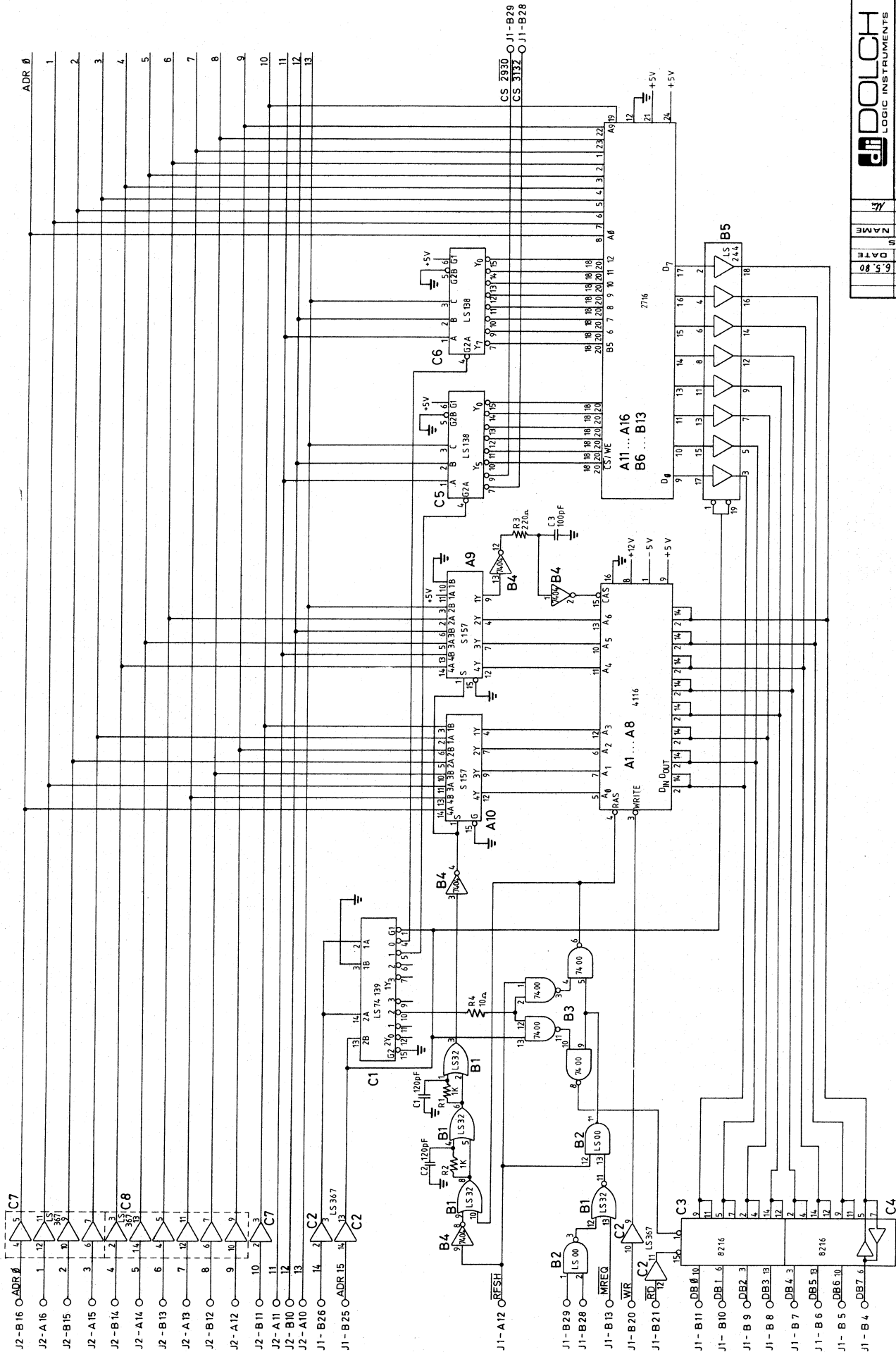
J 3

BAUD RATE 110/300	8	9	RESET
GND	7	10	GPIB INTER
	6	11	
	5	12	
	4	13	
SERIAL IN	3	14	
SERIAL OUT	2	15	
GND	1	16	

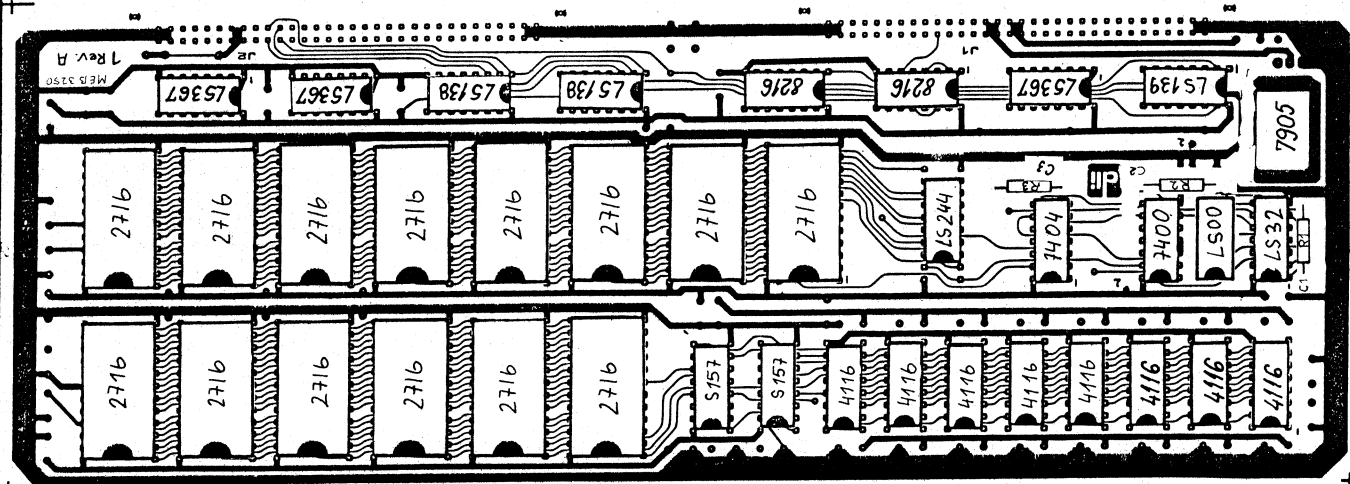
									
								CPU BOARD	
								PART NUMBER	
								5 3250 - 05	
								SHEET	
								2 / 2	



6.5.80		DATE		NAME			
A		ERN		DATE		MEMORY BOARD 1	
CODE		REVISIONS		CHECK		PART NUMBER	
A		6.5.80		DRAWN		5 3250-06	
							SHEET
							1
							2



DRAWN 6.5.80		CHECK 6.5.80		DATE 6.5.80		REVISIONS		CODE A		PART NUMBER 5 3250-06		SHEET 2 2	
NAME		DATE		DATE		DATE		DATE		DATE		DATE	
NAME		DATE		DATE		DATE		DATE		DATE		DATE	
NAME		DATE		DATE		DATE		DATE		DATE		DATE	



POS.	ITEM	QTY	POS	ITEM	QTY
	7400	1			
	7404	1		16P socket	18
	LS 32	1		14P socket	4
	LS 00	1		20P socket	1
	LS 139	1		24P socket	14
	S 157	2			
	LS 244	1			
	LS 367	3			
	LS 138	1			
	8216	2			
	4116	8			
	2716	14			
	7905 Voltage Regulator	1			
R12	1K	2			
R3	220Ω	1			
C12	120p	2			
C3	100p	1			
	10μF/35V	8			
	22n	38			
			Maßstab	LAM 3250	
ASS'Y DRAWING - PART LIST					
			DOLCH LOGIC INSTRUMENTS GMBH		
			MEB 1 3250 A		
			Blatt		
			BI		

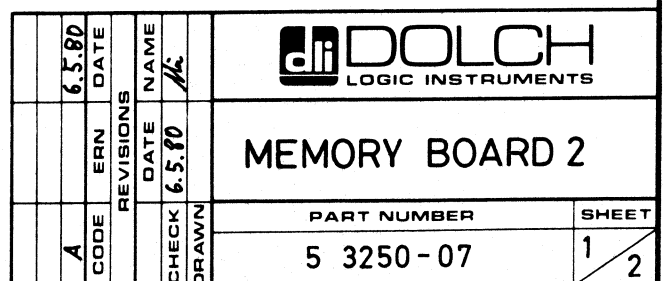
A J1 B

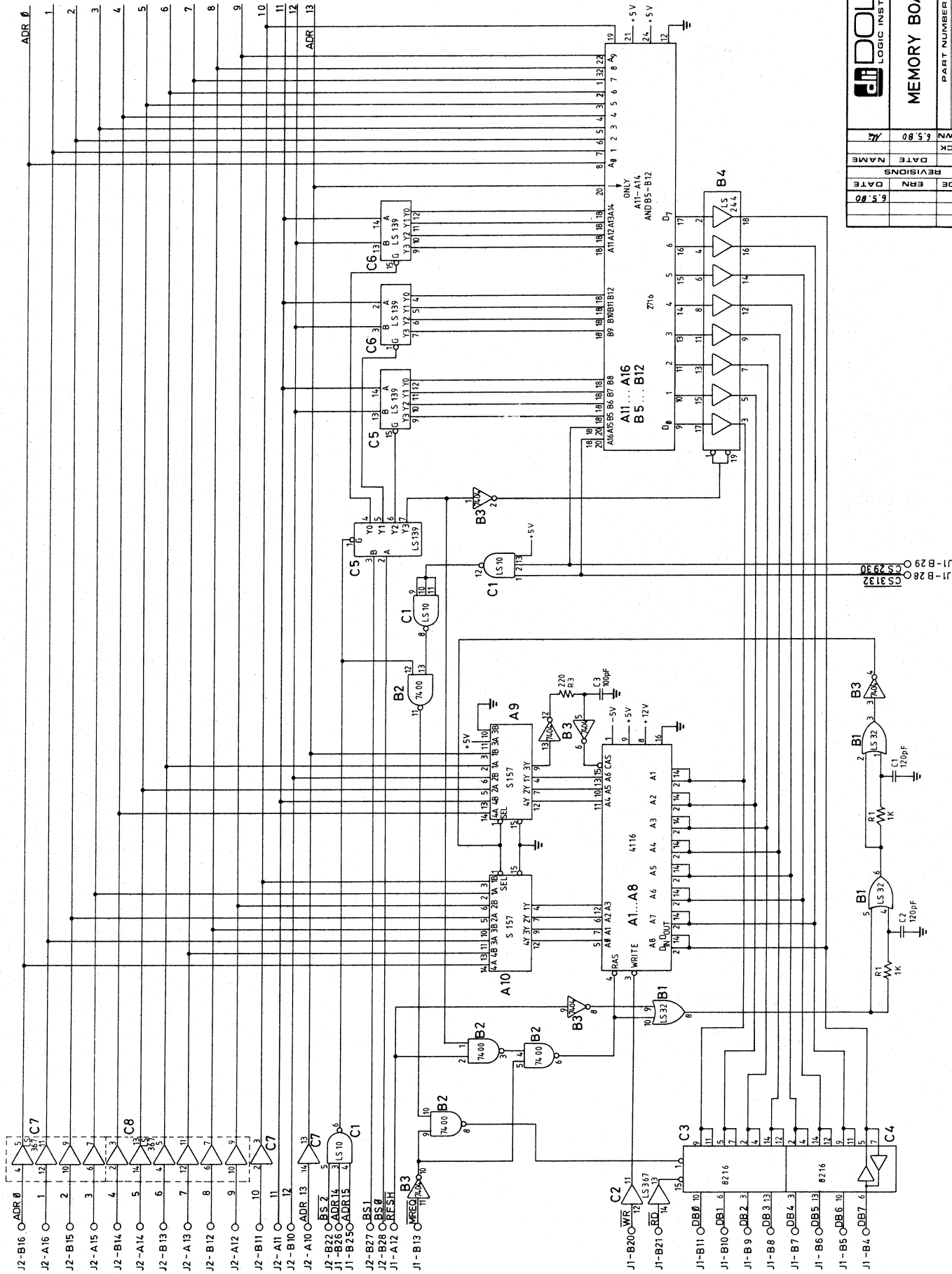
+5V	1	+5V
+5V	2	+5V
	3	
	4	DB 7
	5	DB 6
	6	DB 5
	7	DB 4
	8	DB 3
	9	DB 2
	10	DB 1
	11	DB 0
	12	0
	13	MREQ
-12V	14	-12V
-12V	15	-12V
+12V	16	+12V
+12V	17	+12V
	18	
	19	
	20	WR
	21	
	22	RD
	23	
	24	
	25	ADR 15
	26	ADR 14
	27	
	28	CS 3132
	29	CS 2930
	30	
GND	31	GND
GND	32	GND

A J2 B

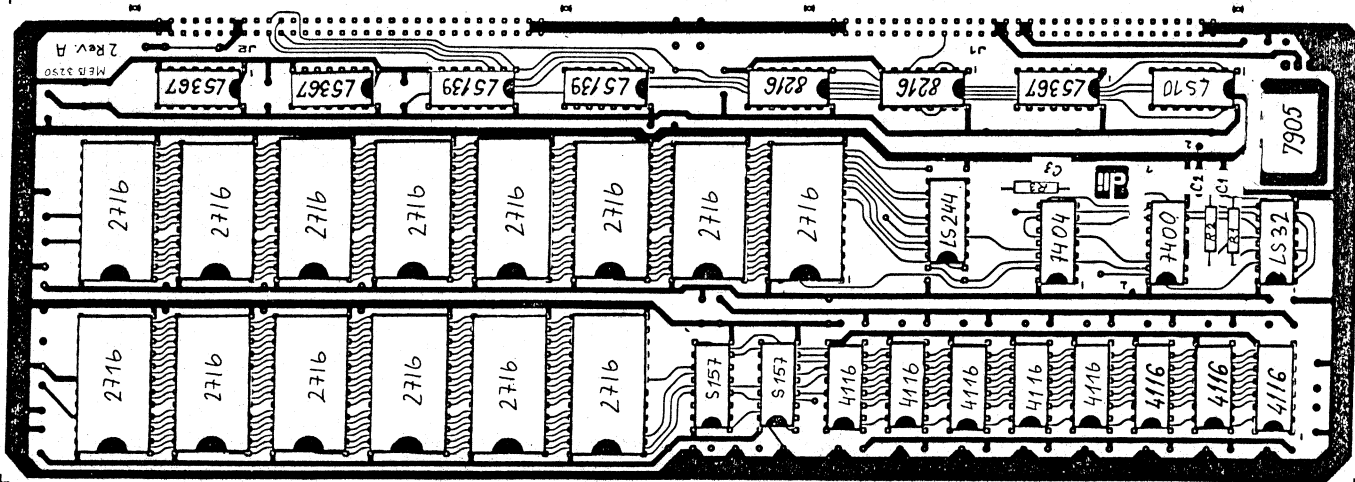
GND	1	GND
GND	2	GND
	3	
	4	
	5	
	6	
-5V	7	-5V
-5V	8	-5V
	9	
ADR 13	10	ADR 12
ADR 11	11	ADR 10
ADR 9	12	ADR 8
ADR 7	13	ADR 6
ADR 5	14	ADR 4
ADR 3	15	ADR 2
ADR 1	16	ADR 0
	17	
	18	
	19	
	20	
	21	
	22	
	23	
	24	
	25	
	26	
	27	
	28	
	29	
	30	
+5V	31	+5V
+5V	32	+5V

		MEMORY BOARD 1	
REVISIONS	DATE	CHECK	DRAWN
CODE	ERN	PART NUMBER	SHEET
		5 3250 - 06	1 / 1





DOLCH LOGIC INSTRUMENTS		MEMORY BOARD 2	
CHECK	DATE	PART NUMBER	SHEET
6.5.80	NAME	5 3250 - 07	2
REVISIONS			
CODE	ERN	DATE	
A		6.5.80	



POS.	ITEM	QTY	POS	ITEM	QTY
	7400	1			
	7404	1		16P socket	1
	LS 32	1		14P socket	4
	LS 10	1		20P socket	1
	LS 139	2		24P socket	1
	5 157	2			
	LS 244	1			
	LS 367	3			
	8216	2			
	4116	8			
	2716	14			
	7905 Voltage Regulator	1			
R1,2	1K	2			
R3	220 Ω	1			
C1,2	120 p	2			
C3	100 p	1			
	10µF / 35 V	8			
	22 n	40			

Maßstab		LAM 3250	
ASS'Y DRAWING - PART LIST			
Name		Date	
Gepr.		28.07.80	
Norm		644-KE	
Zust.		Änderung	
S 3250-07		MEB 2 3250 A	
Bis		F	



A J1 B

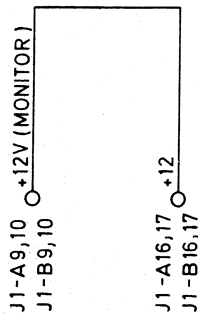
+5V	1	+5V
+5V	2	+5V
	3	
	4	DB 7
	5	DB 6
	6	DB 5
	7	DB 4
	8	DB 3
	9	DB 2
	10	DB 1
	11	DB 0
	12	0
	13	MREQ
	14	-12V
	15	-12V
	16	+12V
	17	+12V
	18	
	19	
	20	WR
	21	RD
	22	
	23	
	24	
	25	ADR 15
	26	ADR 14
	27	
	28	CS 3132
	29	CS 2930
	30	
	31	GND
	32	GND

A J2 B

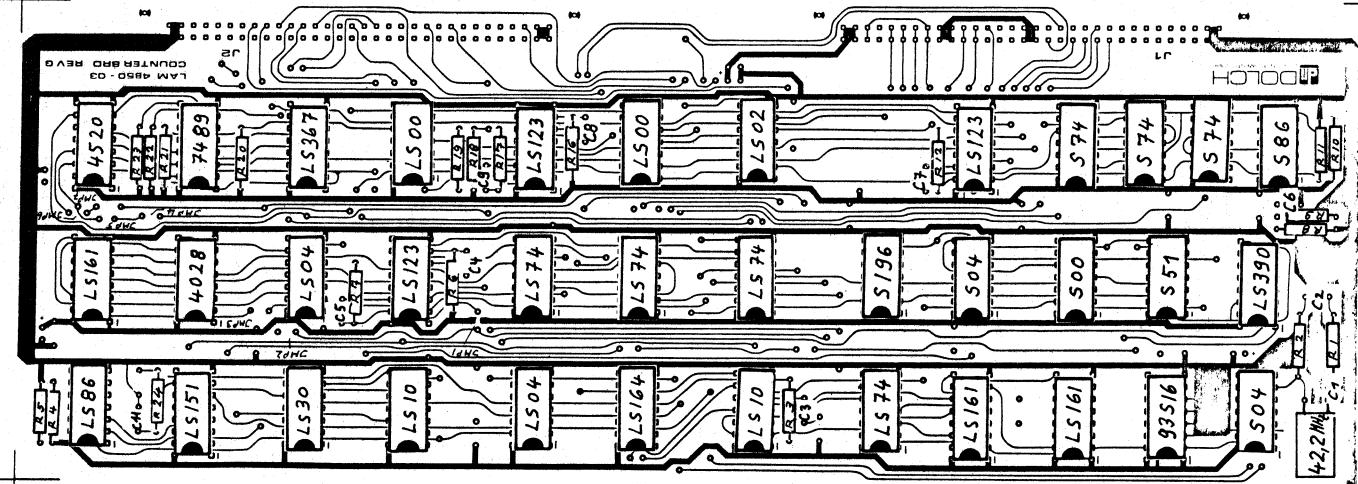
GND	1	GND
GND	2	GND
	3	
	4	
	5	
	6	
	7	-5V
	8	-5V
	9	
	10	ADR 12
	11	ADR 10
	12	ADR 8
	13	ADR 6
	14	ADR 4
	15	ADR 2
	16	ADR 0
	17	
	18	
	19	
	20	
	21	
	22	BS 2
	23	
	24	
	25	
	26	
	27	BS 1
	28	BS 0
	29	
	30	
	31	+5V
	32	+5V

DATE	NAME	CHECK	DRAWN
DATE	REVISIONS	CHECK	DRAWN
DATE	REVISIONS	CHECK	DRAWN

	
MEMORY BOARD 2	
PART NUMBER	SHEET
5 3250 - 07	1/1



		LOGIC INSTRUMENTS	
RASTER COUNTER			
PART NUMBER		SHEET	
5 4850 - 03		1 / 2	
REVISIONS		CHECK	
CODE	ERN	DATE	NAME
I		24.10.84	
H		10.6.80	
G		6.5.80	
DRAWN		6.5.80	
6.5.80		/K	



Jumper W-Germay: JH 1 13 15, 7
USA: JH 2 14 16

POS	ITEM	QTY	POS.	ITEM	QTY
	LS 00	2	R _{1,2}	200 Ω	2
	S 00	1	R ₂₄	300 Ω	1
	LS 04	2	R _{3,8,5,10,19}	220 Ω	5
	S 04	2	R _{4,18,9,11}	270 Ω	4
	LS 02	1	R _{6,7}	4k7	2
	LS 10	2	R _{12,16,17}	6k8	3
	LS 30	1	R _{20,21,22,23}	3k3	4
	S 51	1	*	330 Ω	1
	LS 74	4			
	S 74	3			
	LS 86	1	C ₁	4p7	1
	S 86	1	C ₂	39p	1
	LS 123	3	C ₃	10n	1
	LS 151	1	C _{4,5,8,9}	22p	4
	LS 161 / LS 163	3	C ₆	390p	1
	93 516 / 5163	1	C ₇	27p	1
	LS 164	1	C ₁₁	820p	1
	S 196	1			
	LS 367	1			
	LS 390 (nur Texas (C's verwenden))	1			
	7489	1		10μF/35V	5
	4520	1		22n	13
	4028	1			
	Quartz 42.2 MHz	1		14p Sockel	23
				16p Sockel	13
*	1N4148				

* auf der Platine noch nicht vorgesehen

J1

A

+5V	1
+5V	2
VIDEO	3
VT	4
HT (MONITOR)	5
VIDEO	6
VIDEO	7
+12 V (MONITOR)	8
+12 V (MONITOR)	9
VT	10
BRDS 6	11
-12 V	12
-12 V	13
+12 V	14
+12 V	15
C7= MRKLD	16
C5= CRDY	17
C3= ACKN	18
C1= DATA RDY	19
A1	20
A3	21
A5	22
A7	23
D7	24
D5	25
D3	26
D1	27
GND	28
GND	29
GND	30
GND	31
GND	32

B

+5V	1
+5V	2
VIDEO	3
VT	4
HT (MONITOR)	5
VIDEO	6
VIDEO	7
+12 V (MONITOR)	8
+12 V (MONITOR)	9
VT	10
N/C	11
-12 V	12
-12 V	13
+12 V	14
+12 V	15
C6= CACKN	16
C4= CHAR RD	17
C2= I/O-WR	18
C0= I/O-RD	19
A0	20
A2	21
A4	22
A6	23
D6	24
D4	25
D2	26
D0	27
GND	28
GND	29
GND	30
GND	31
GND	32

A J2

B

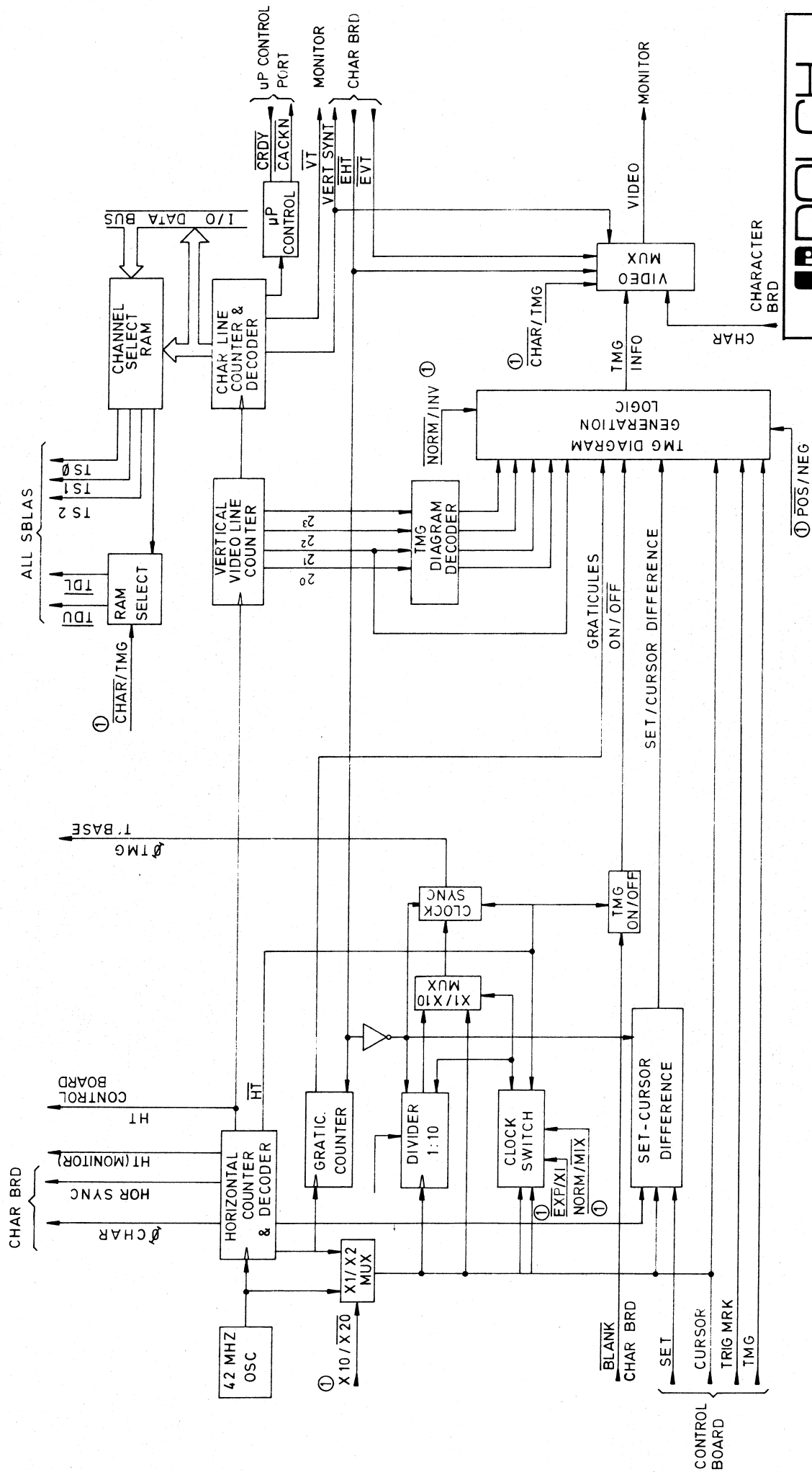
GND	1
GND	2
TS0	3
TS1	4
TS2	5
0 CHAR	6
HT	7
HOR SYNC	8
IDU	9
TDL	10
VERT SYNC	11
SET	12
BLANK	13
EVT	14
EHT	15
CHAR	16
TMG	17
TRIG MRK	18
CURSOR	19
0 TMG	20
+5V	21
+5V	22
+5V	23
+5V	24
+5V	25
+5V	26
+5V	27
+5V	28
+5V	29
+5V	30
+5V	31
+5V	32

NAME	DATE	REVISIONS	CODE	CHECK



RASTER COUNTER BOARD

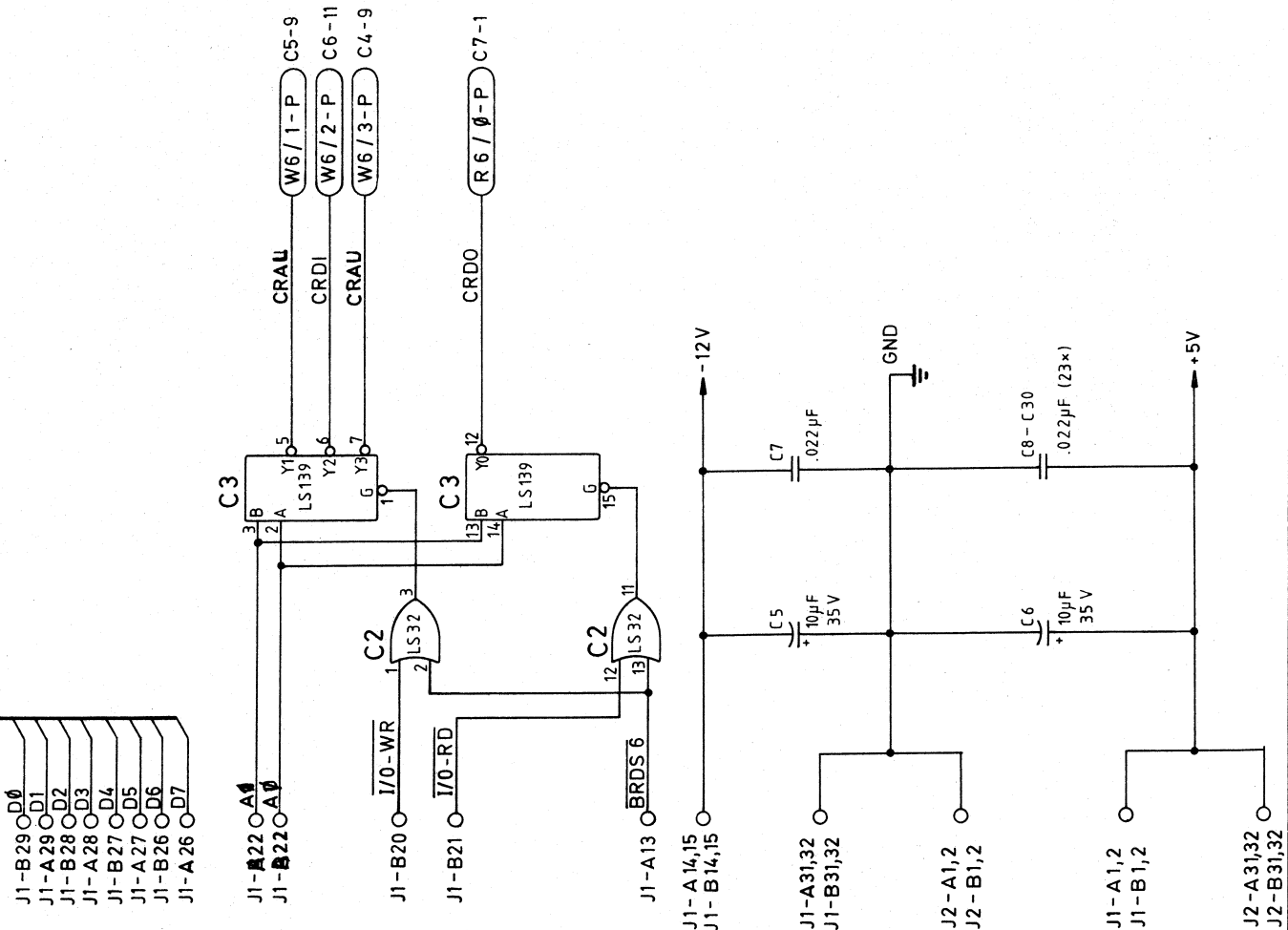
PART NUMBER	SHEET
5 4850 - 03	1 1



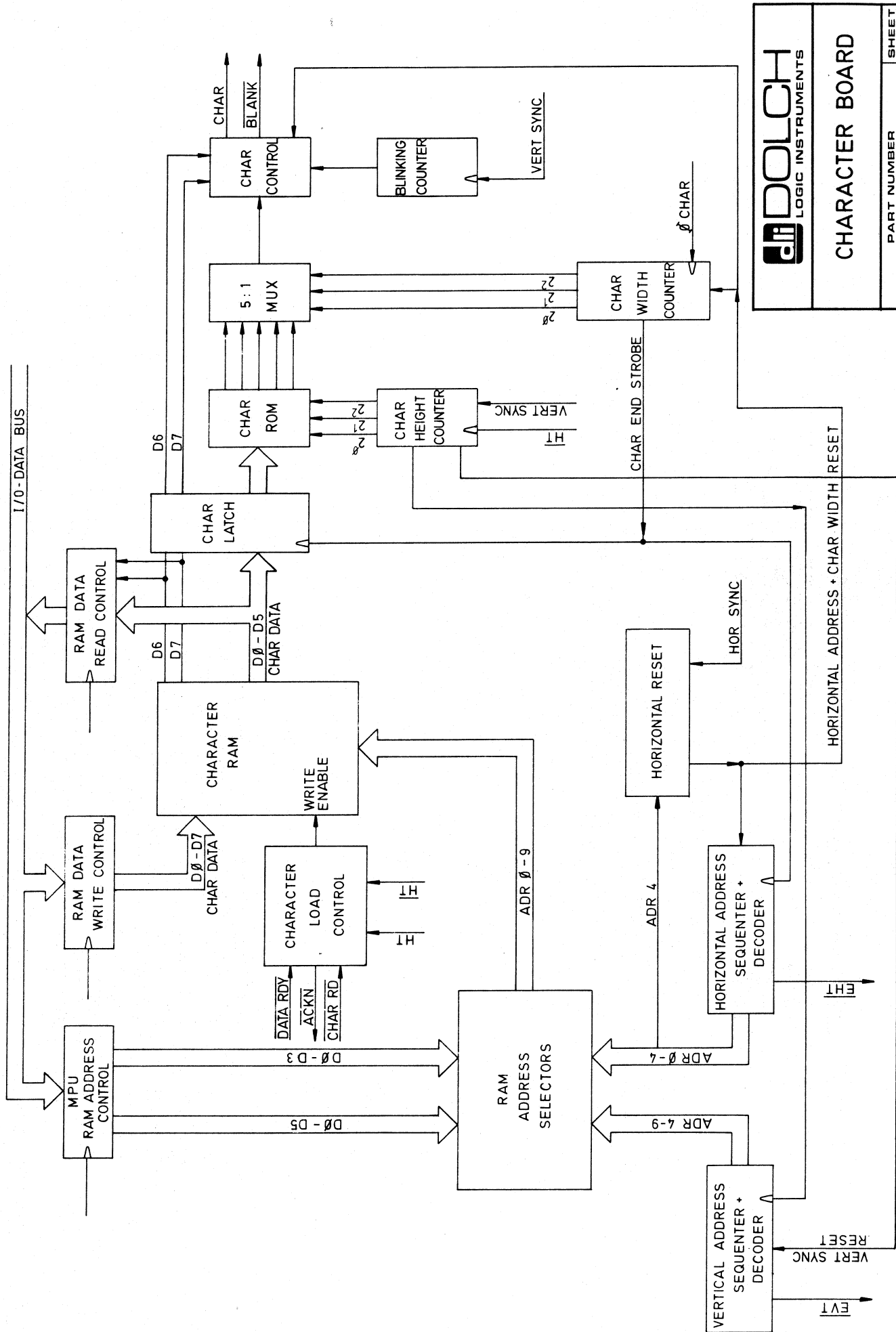
NOTES: ① FROM DCR (= DISPLAY CONTROL REGISTER)

RASTER COUNTER	
PART NUMBER	SHEET
5 4850 -03	1
	1

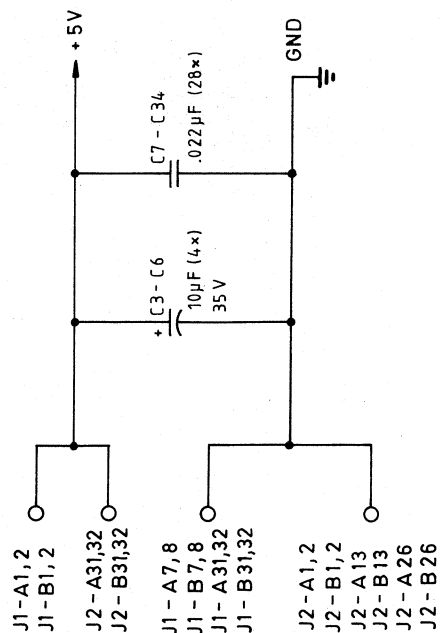
I/O DATA BUS

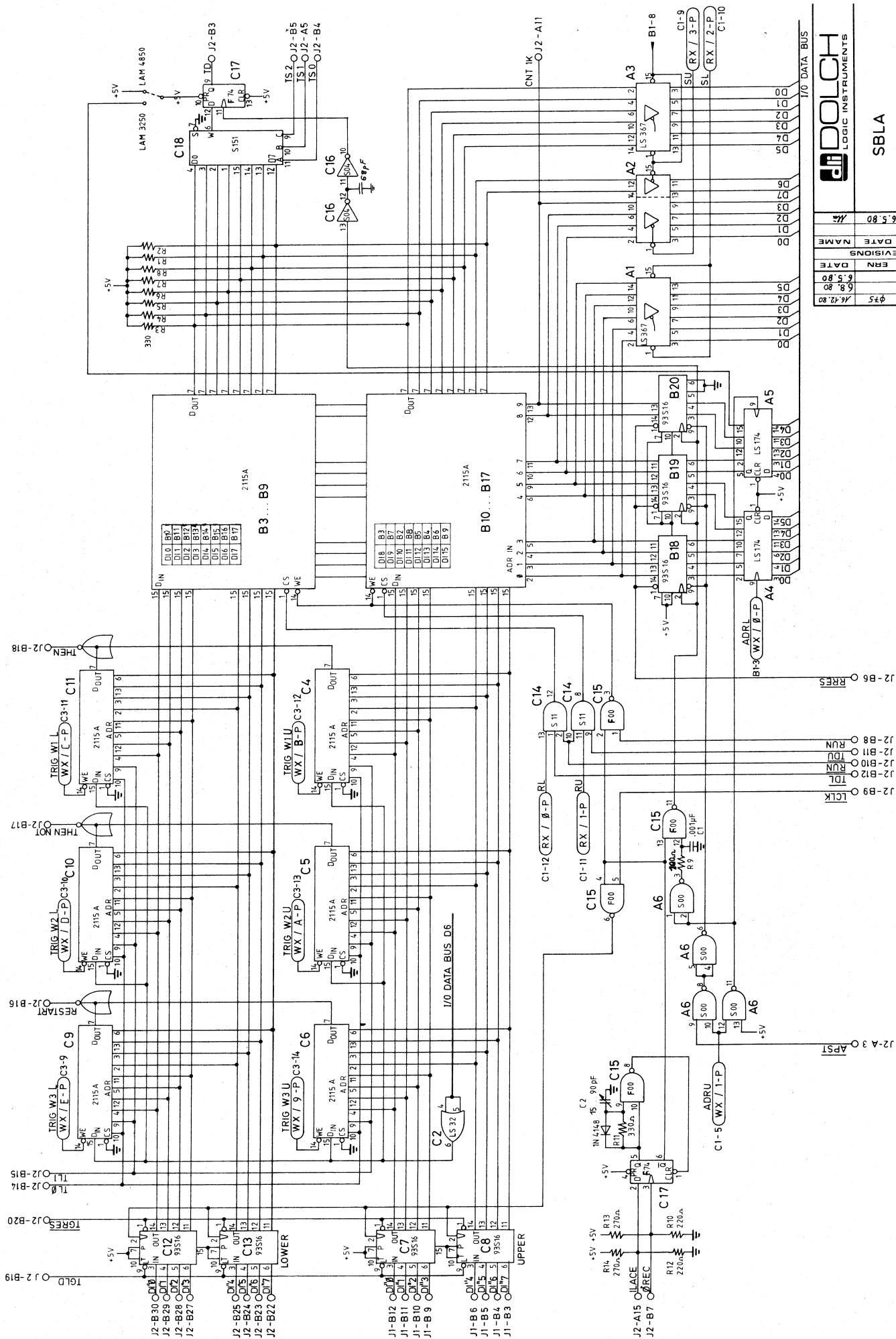


		CHARACTER BOARD	
DRAWN	6.5.80	CHECK	
NAME	DATE	REVISIONS	
CODE	ERN	DATE	
6	20.5.84	6.5.80	
PART NUMBER	5 4850 -04	SHEET	1
			2



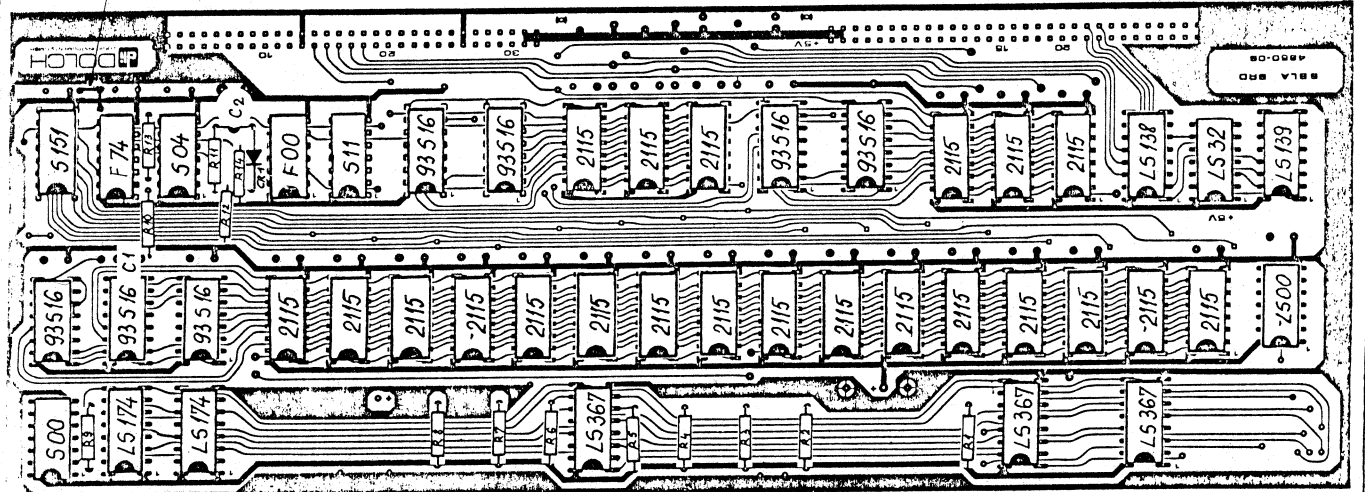
I/O DATA BUS

[illegible]



DRAWN 6.5.80		CHECK		PART NUMBER		SHEET	
DATE		REVISIONS		5 4850-06		2	
NAME		DATE					

CODE		REV		DATE		NAME	
I		F		6.5.80		6.5.80	



3 zwischen P. n 12
und 14 von 1c C 16
auf Lötlseite.
Hb Rev. K im Lagout
— LAM 3950
LAM 4850 !
Jumper

LAM 4850 A7
LAM 3250 A2

POS	ITEM	QTY	POS	ITEM	QTY
	L500	1		10 μ F / 35V	4
	500	1		22n	28
	504	1	C3	68p	1
	511	1		14p Sockel	7
	L532	1		46p Sockel	37
	F74	1			
	L5138	1			
	L5139	1			
	5151	1			
	L5174	2			
	L5367	3			
	F00	1			
	93516	7			
	2115	22			
R41	330 Ω	1			
R1-8	330 Ω	8			
R10,12	220 Ω	2			
R13,14	270 Ω	2			
R9	100 Ω	1			
C41	AN4148	1			
C1	1nF	1			
C2	5-90pF	1			

Maßstab

ASS'Y DRAWING - PART LIST

LAM 32 50

GEPRÜFT V. A. 01.1.1990

Datum	Name
Bearb. 24.3.81	Gehrig
Gepr.	
Norm.	

Zust. Änderung Datum Name

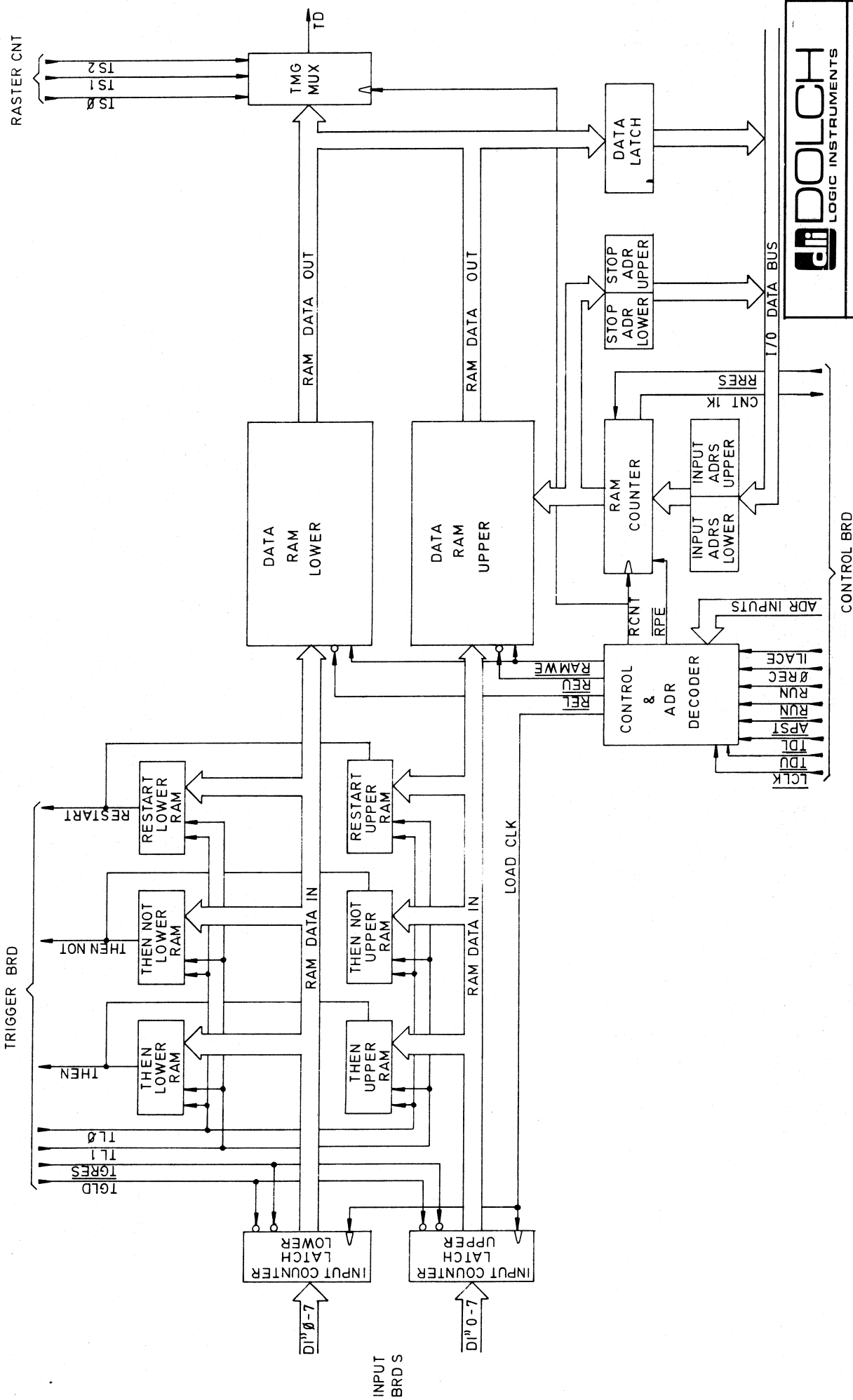
5 4850-6 A2
A1

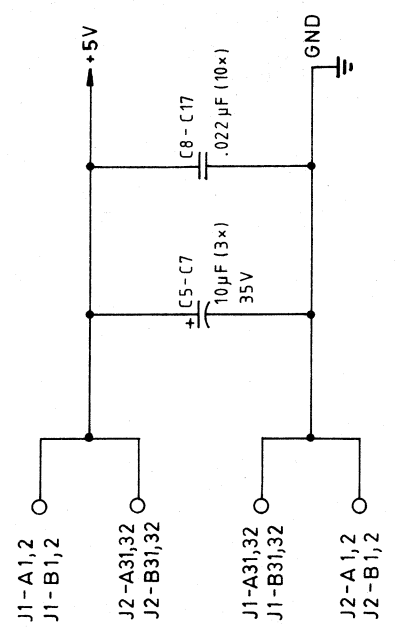
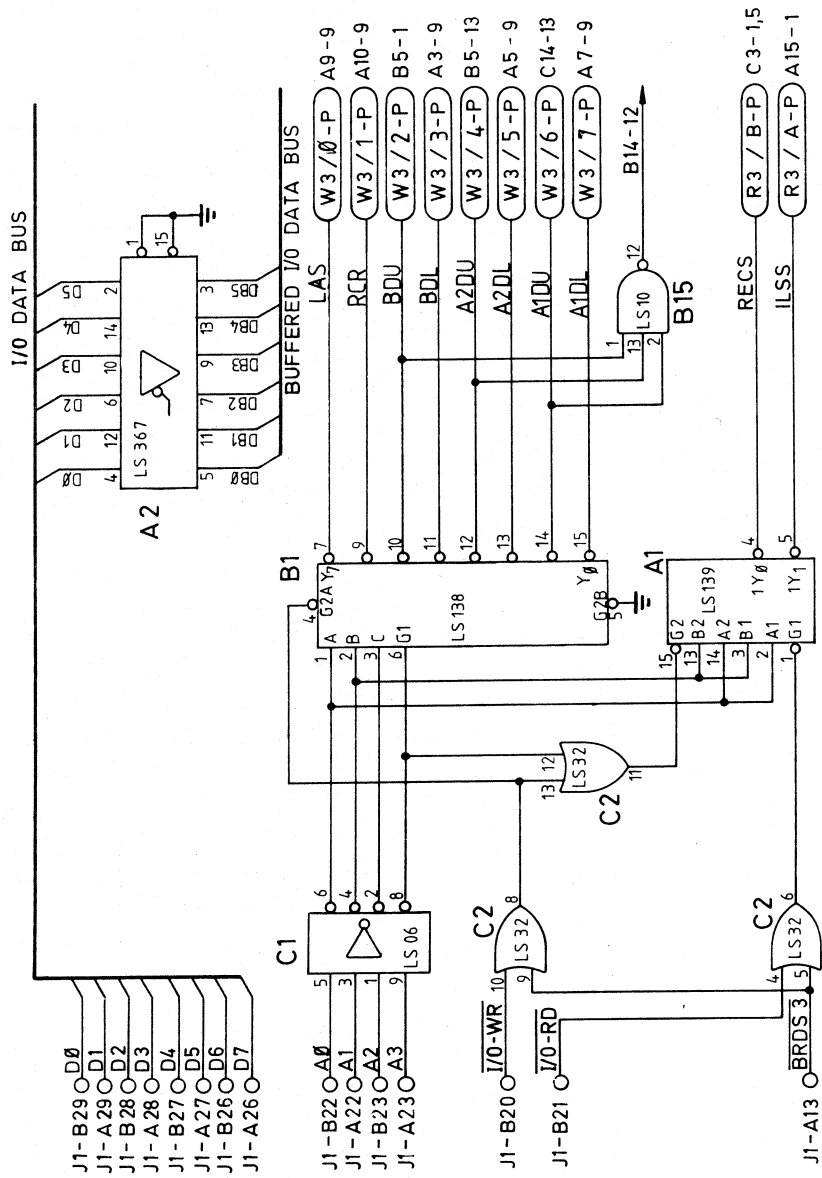
Blatt

ADOLCH
LOGIC INSTRUMENTS GMBH

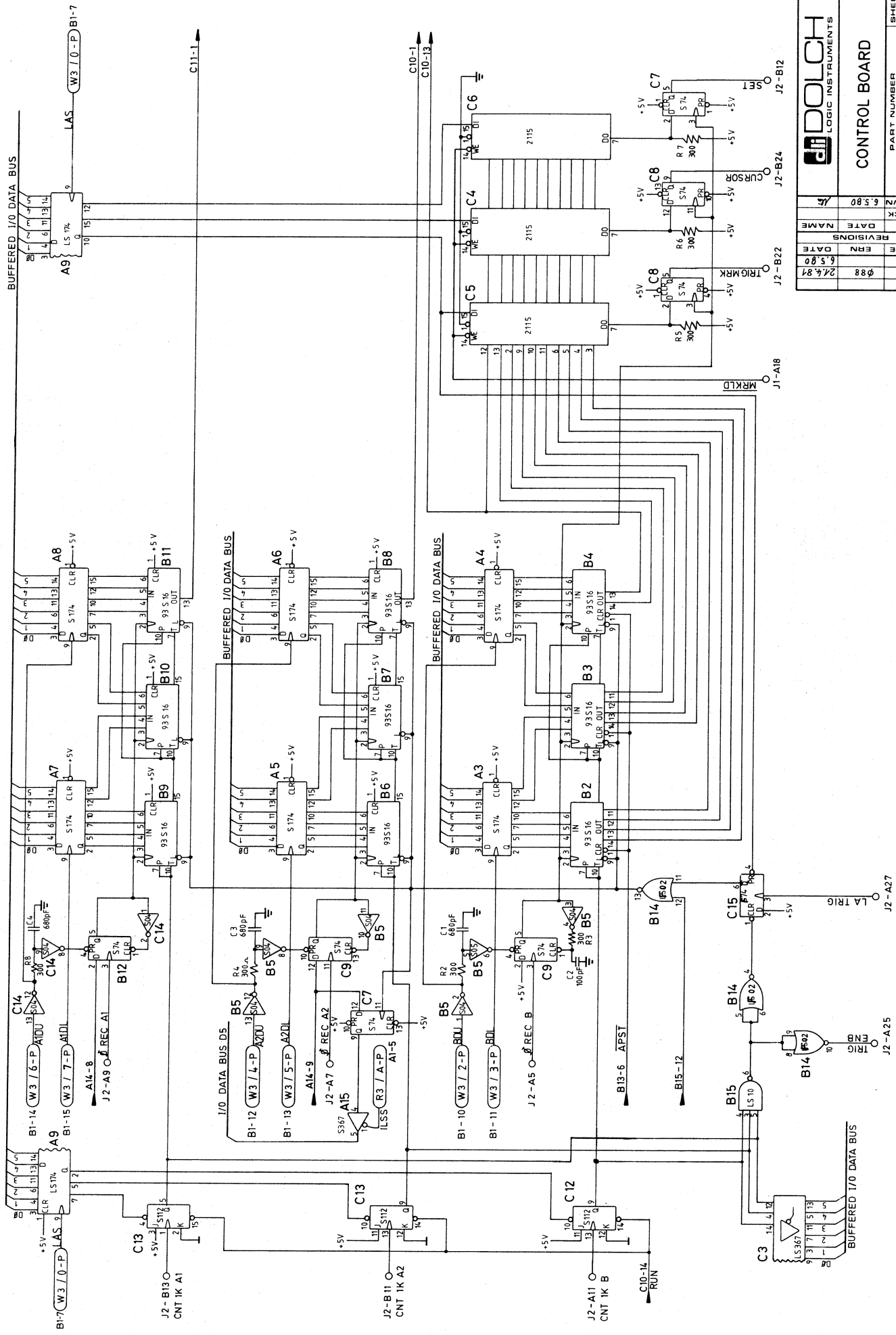
SBLA BOARD 1

Blatt

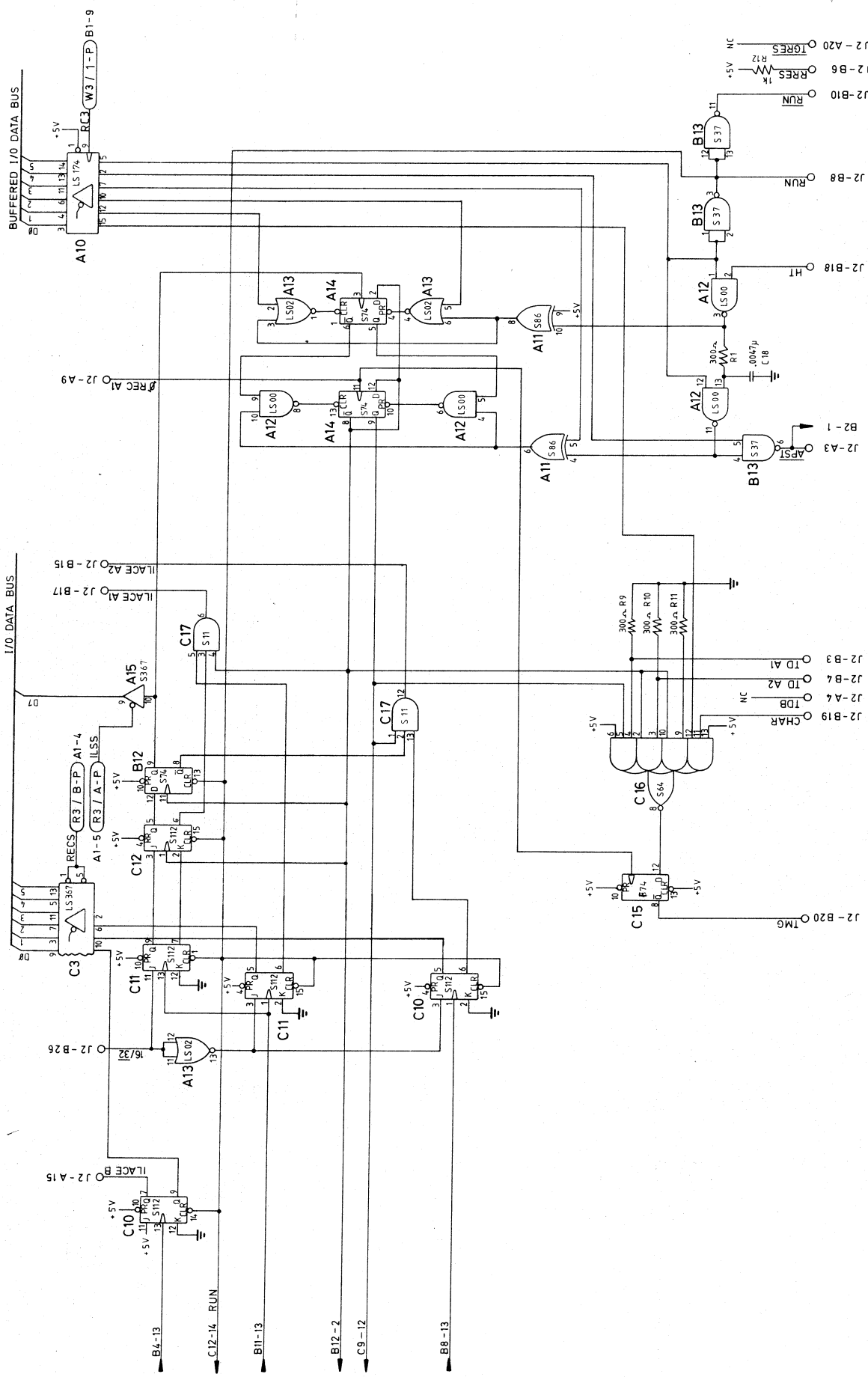




		CONTROL BOARD	
CHECK	DATE	PART NUMBER	SHEET
6.5.80	21.4.81	5 4850-07	1 3



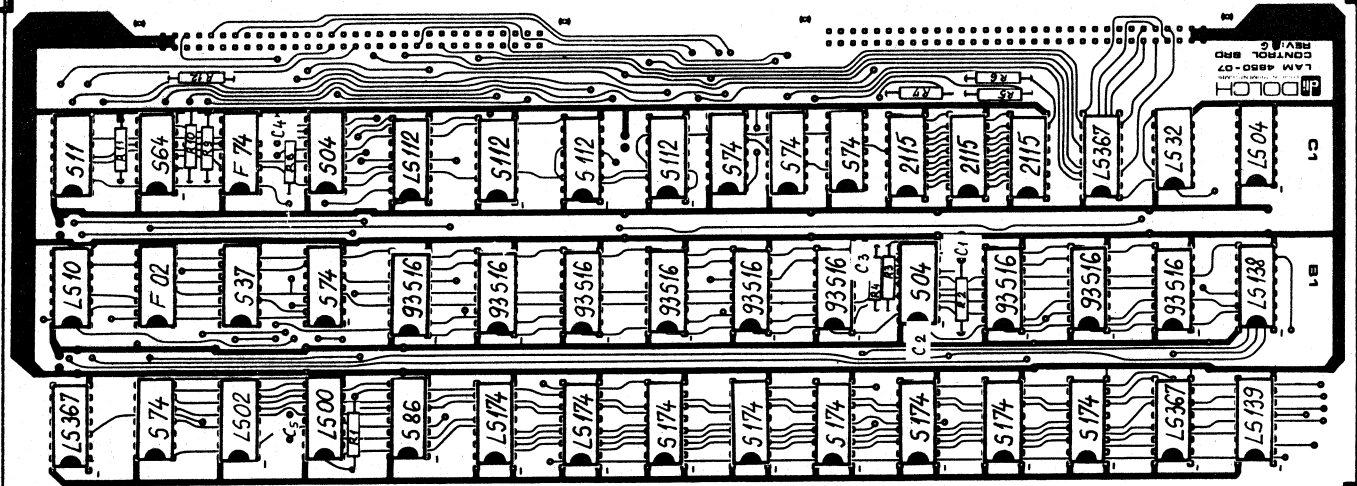
DOLCH LOGIC INSTRUMENTS				CONTROL BOARD		PART NUMBER	SHEET
CHECK	DATE	REVISIONS	CODE	φ88	G	5 4850-07	2 3
DRAWN	6.5.80	6.5.80	6.5.80				



DRAWN: 6.580		CHECK: 6.580		DATE: 1/4	
REVISIONS		DATE		NAME	
CODE	ERN	DATE	DATE	DATE	DATE
6	6.5.80	2/4.81	6.5.80	2/4.81	6.5.80
H	φ88				
PART NUMBER		5 4850-07		SHEET	
				3	



CONTROL BOARD

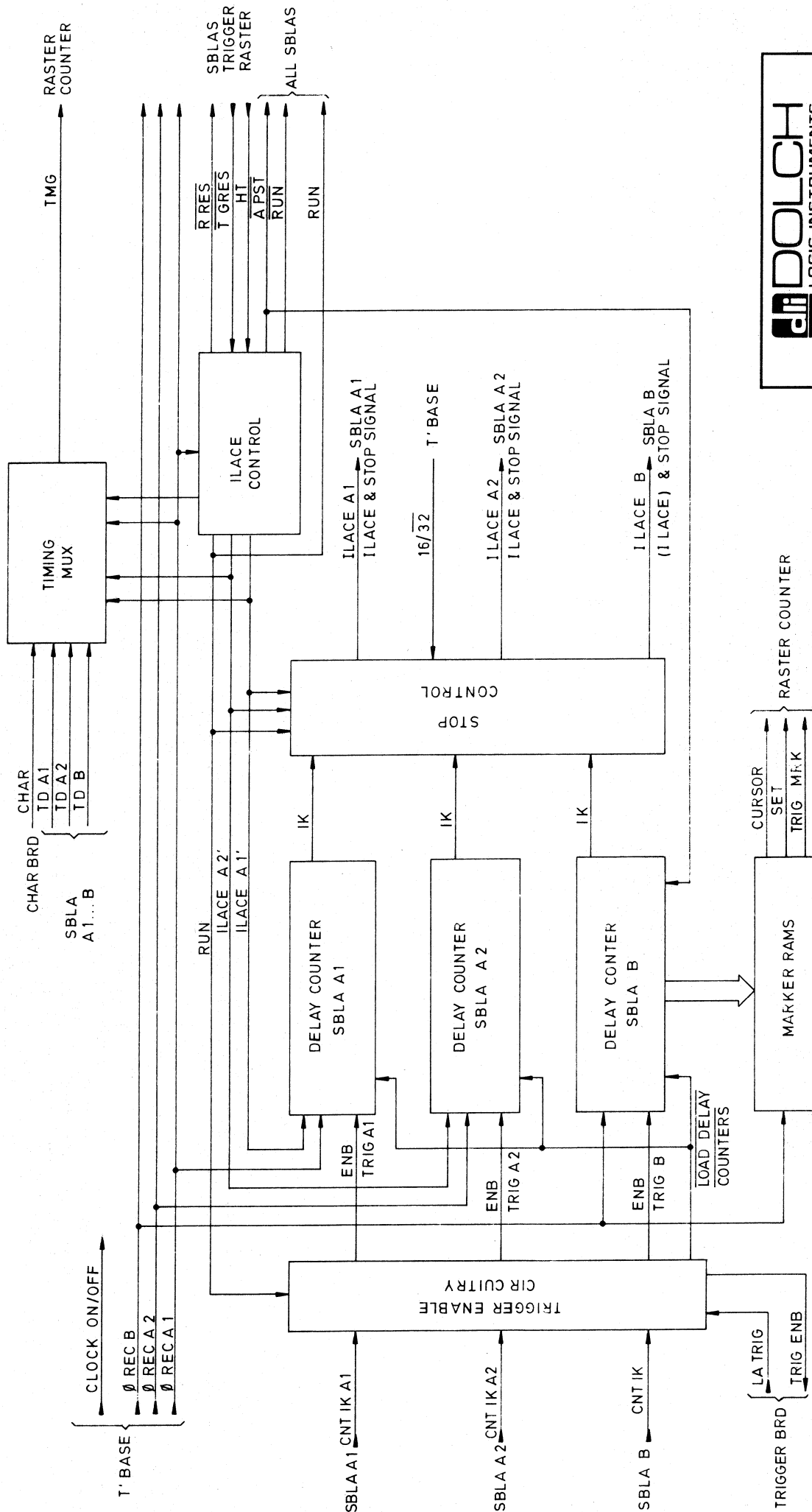


POS.	ITEM	QTY	POS	ITEM	QTY
	LS 00	1	R11	300 Ω	11
	LS 02	1	R12	1K	1
	F 02	1	C5	47n	1
	LS 04	1	C134	680pF	3
	504	2	C2	100p	1
	LS 10	1		10μF / 35V	3
	511	1		22 n	11
	LS 32	1			
	537	1		14P Sockel	18
	564	1		16P Sockel	29
	574	5			
	586	1			
	LS 112	1			
	5112	3			
	LS 138	1			
	LS 139	1			
	LS 174	2			
	5174	6			
	LS 367	3			
	93 516	9			
	2115	3			
	F 74	1			

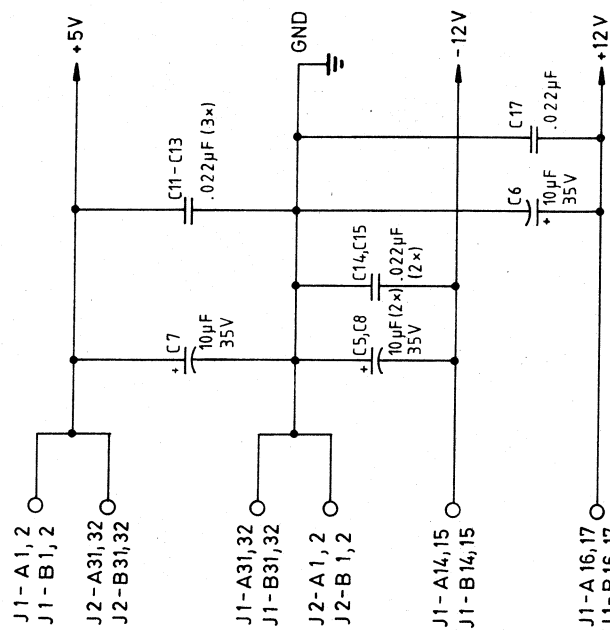
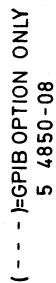
Maßstab		LAM 4850	
ASS'Y DRAWING - PART LIST			
Bearb.	Datum	Name	
22.4.84	84	544-ke	
Gepr.			
Norm			
Zust.	Änderung	Datum	Name
5 4850-07		CONTROL BOARD H	

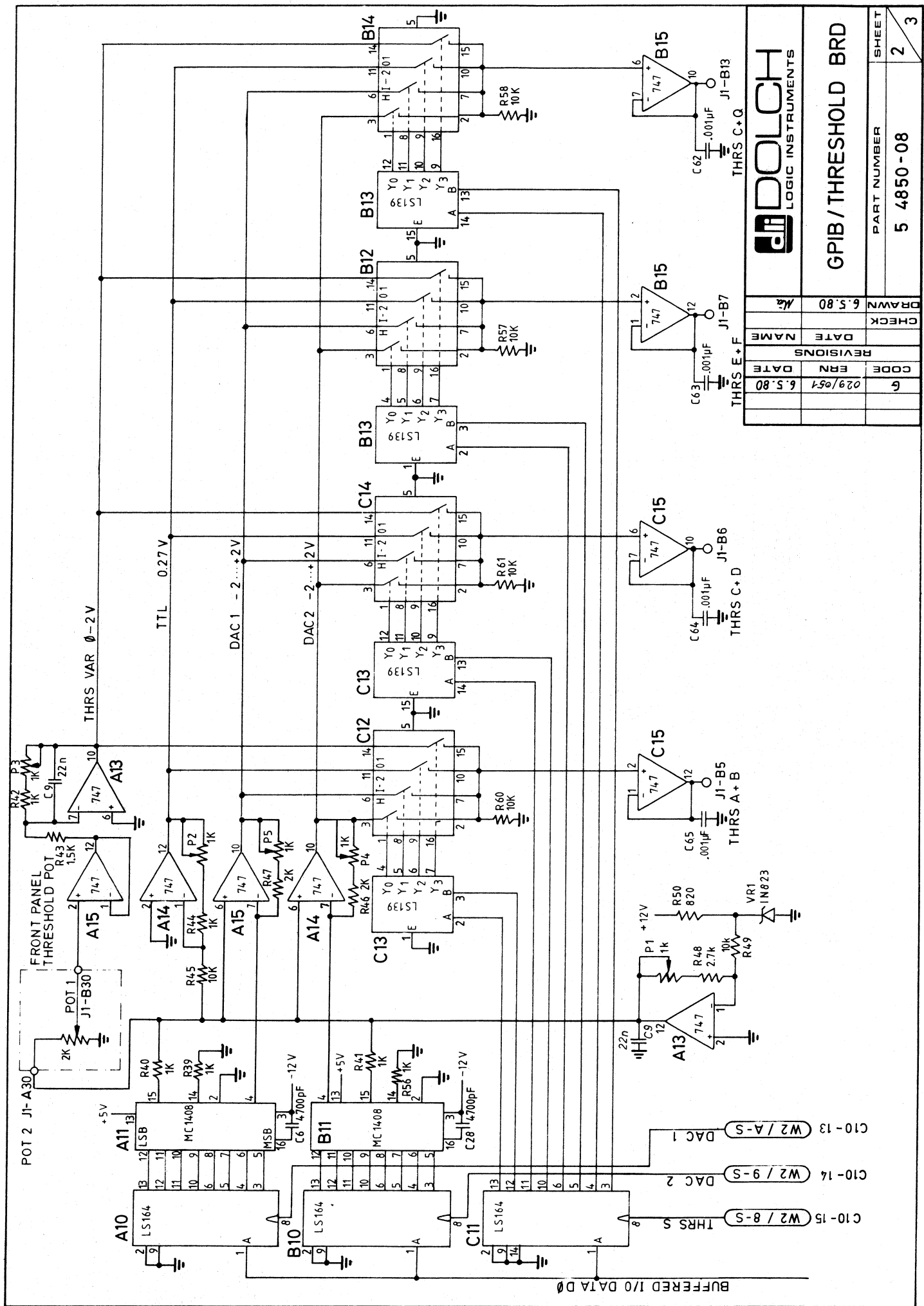


CONTROL BOARD H



1.THRESHOLD BOARD WITHOUT GPIB LAYOUT: TO 5 4850 -09





GPIB / THRESHOLD BRD

REVISIONS		CHECK	PART NUMBER	SHEET
DATE	NAME			
02/05/81	6	6.5.80	5 4850-08	2
				3

DRAWN 6.5.80		CHECK	
DATE		NAME	
REVISED		DATE	
CODE	ERN	DATE	
6	029/051	6.5.80	
PART NUMBER		SHEET	
5 4850 -08		3	

ONLY ASSEMBLED
ON 5 4850-08A2



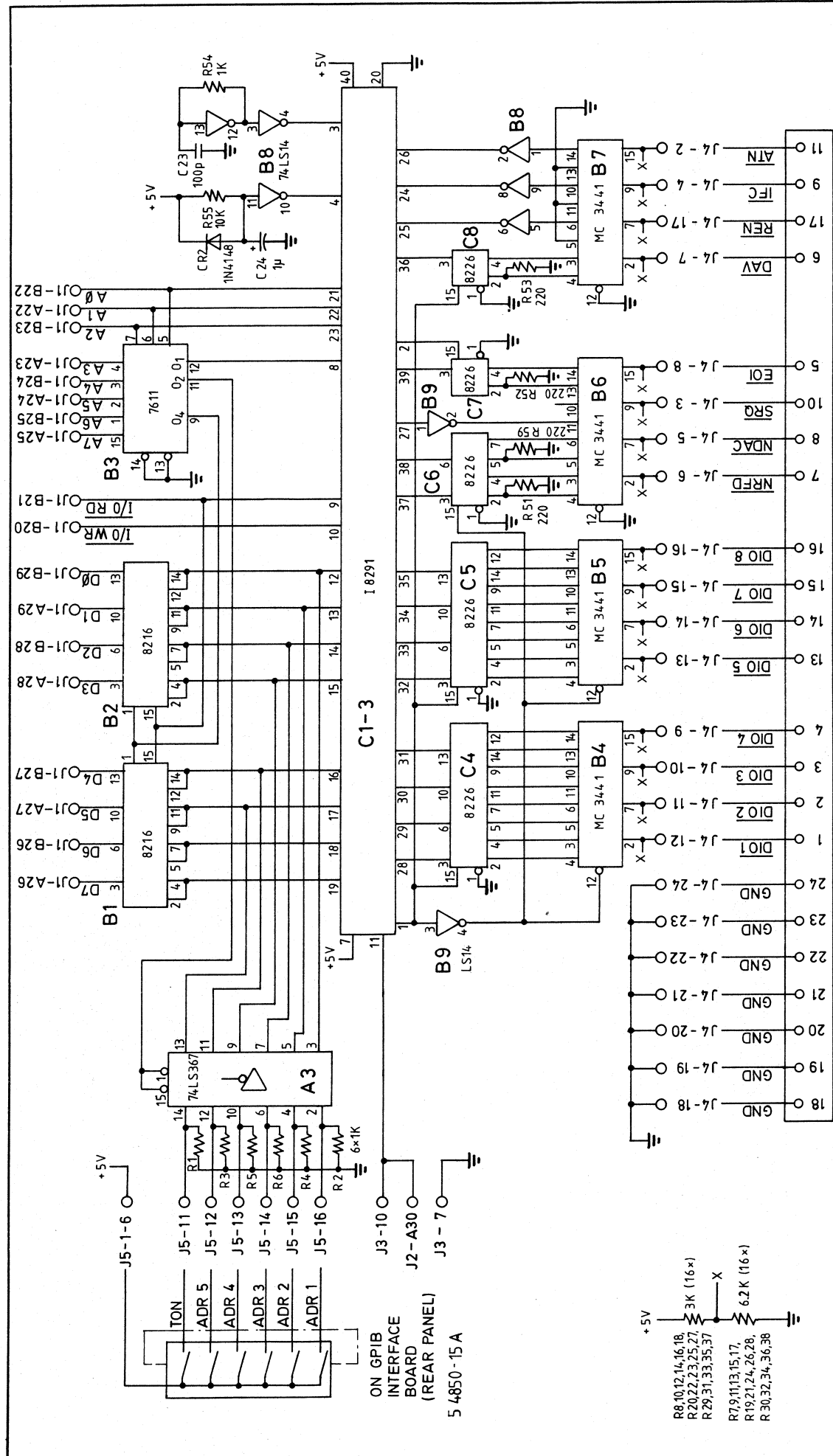
DOLCH
LOGIC INSTRUMENTS

GPIB/THRESHOLD BRD

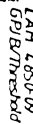
DRAWN 6.5.80		CHECK	
DATE		NAME	
REVISED		DATE	
CODE	ERN	DATE	
6	029/051	6.5.80	
PART NUMBER		SHEET	
5 4850 -08		3	

11	ATN	J4-2	X
9	IFC	J4-4	X
17	REN	J4-17	X
6	DAV	J4-7	X
5	EOL	J4-8	X
10	SRO	J4-3	X
8	NDAC	J4-5	X
7	NRF	J4-6	X
16	DIO 8	J4-16	X
15	DIO 7	J4-15	X
14	DIO 6	J4-14	X
13	DIO 5	J4-13	X
4	DIO 4	J4-9	X
3	DIO 3	J4-10	X
2	DIO 2	J4-11	X
1	DIO 1	J4-12	X
24	GND	J4-24	
23	GND	J4-23	
22	GND	J4-22	
21	GND	J4-21	
20	GND	J4-20	
19	GND	J4-19	
18	GND	J4-18	

GPIB BUS CONNECTOR
(REAR PANEL)



ON GPIB
INTERFACE
BOARD
(REAR PANEL)
5 4850 -15A



B'	
----	--

J 3

	8	9	
GND	7	10	GPIB INT
	6	11	
	5	12	
	4	13	
	3	14	
	2	15	
	1	16	

J 4

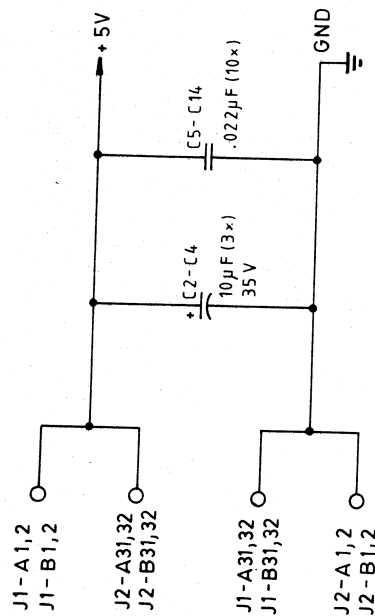
DIO 1	12	13	DIO 5
DIO 2	11	14	DIO 6
DIO 3	10	15	DIO 7
DIO 4	9	16	DIO 8
EOI	8	17	REN
DAV	7	18	GND
NRFD	6	19	GND
NDAC	5	20	GND
IFC	4	21	GND
SRO	3	22	GND
ATN	2	23	GND
	1	24	GND

J 5

	8	9	
	7	10	
+5V	6	11	TON
+5V	5	12	ADR 5
+5V	4	13	ADR 4
+5V	3	14	ADR 3
+5V	2	15	ADR 2
+5V	1	16	ADR 1

		DATE					
		REVISIONS					
		DATE		NAME		GPIB/THRESHOLD BOARD	
CODE		ERN		CHECK		PART NUMBER	
				DRAWN		5 4850 - 08	
						SHEET	
						2 / 2	

1. SHEET 3 = REVISION G ONLY



		TRIGGER BOARD		SHEET 1 / 3	
NAME		DATE		PART NUMBER	
70.6.80		6.5.80		5 4850-10	
REVISIONS					
CODE	ERN	DATE			
I		6.5.80			
DRAWN					
CHECK					
6.5.80					

J1

A

B

1	+ 5 V	1	+ 5 V
2	+ 5 V	2	+ 5 V
3		3	TRIG QUAL 1
4		4	TRIG QUAL 2
5		5	CLOCK ON/OFF
6		6	
7		7	
8		8	
9		9	
10		10	
11		11	
12		12	
13	BROS 2	13	
14	-12V	14	-12V
15	-12V	15	-12V
16	+12V	16	+12V
17	+12V	17	+12V
18	C7=MRKLD	18	C6=CAKN
19	C5=CRDY	19	C4=CHAR RD
20	C3=ACKN	20	C2=I/O-WR
21	C1=DATA RDY	21	C0=I/O-RD
22	A1	22	A0
23	A3	23	A2
24	A5	24	A4
25	A7	25	A6
26	D7	26	D6
27	D5	27	D4
28	D3	28	D2
29	D1	29	D0
30	TRIG OUT B	30	TRIG OUT A
31	GND	31	GND
32	GND	32	GND

J2

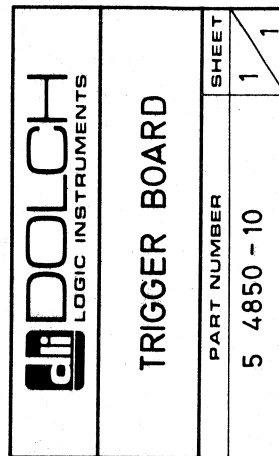
A

B

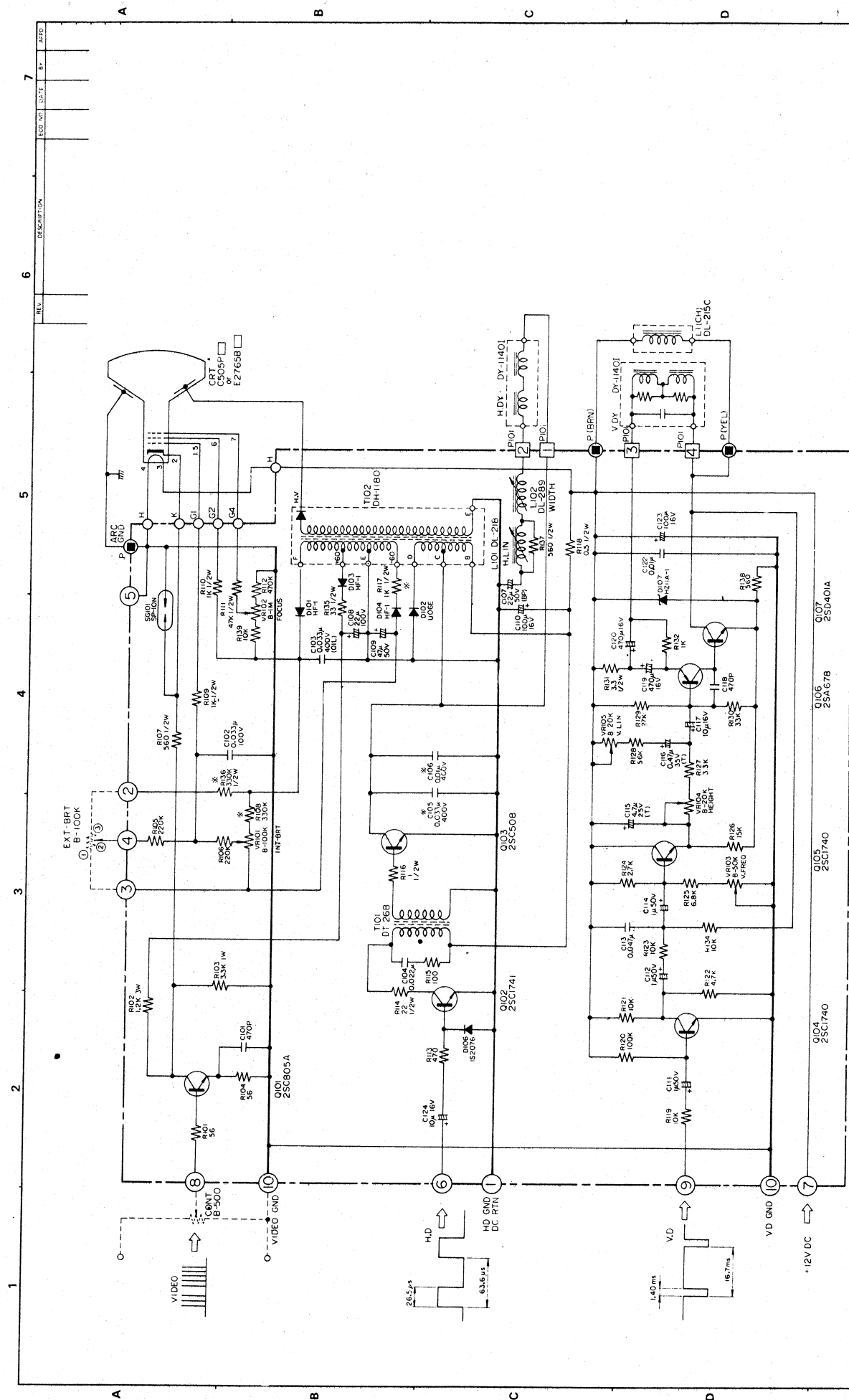
1	GND	1	GND
2	GND	2	GND
3		3	
4		4	
5		5	REC B
6		6	
7		7	REC A 2
8		8	RUN
9	REC A 1	9	LCLK
10		10	RUN
11		11	
12		12	
13		13	
14		14	TL 0
15		15	TL 1
16		16	RESTART B
17		17	THEN NOT B
18		18	THEN B
19		19	TGLO
20		20	TGRES
21		21	THEN A 1
22		22	THEN A 2
23		23	
24		24	
25		25	TRIG ENB 1
26		26	16/32
27		27	LA TRIG
28		28	
29	RESTART A 1	29	RESTART A 2
30	THEN NOT A 1	30	THEN NOT A 2
31	+ 5 V	31	+ 5 V
32	+ 5 V	32	+ 5 V

NAME	CHECK	DRAWN
DATE		
REVISIONS		
DATE		
CODE		
ER2		

DOLCH LOGIC INSTRUMENTS		TRIGGER BOARD	
PART NUMBER		SHEET	
5 4850 - 10		1 1	



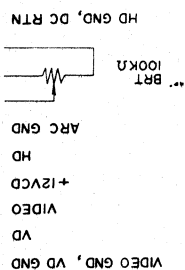
TRIGGER BOARD



NOTES

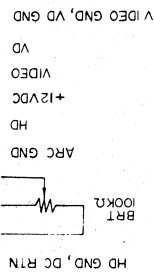
1. RESISTORS UNLESS OTHERWISE NOTED ARE 1/4W.
2. CAPACITORS UNLESS OTHERWISE NOTED ARE 50V.
3. * ADJUSTED

REV		DESCRIPTION		ECO NO		DATE		BY		APPD	
6		7		8		9		10		11	
30 CHUOMUSEN CO. LTD. QDM-5C SCHEMATIC DIAGRAM 2 C 779-203 DATE: 7/1/79 DESIGN: S. TSUKURUTA CHECK: K. H. E. L. G. APPROVED: 7/1/79 SIZE: A2 SHEET: 1 OF 1											
MATERIAL		FINISH		TOLERANCE		SCALE		IN		MM	
								5		6	



1. RESISTORS UNLESS OTHERWISE NOTED ARE 1/4W.
2. CAPACITORS UNLESS OTHERWISE NOTED ARE 50V.
3. * ADJUSTED.

[illegible]

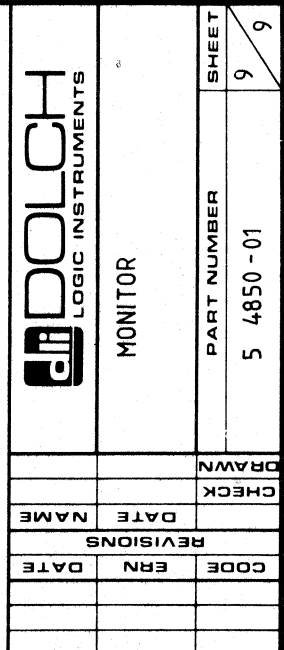


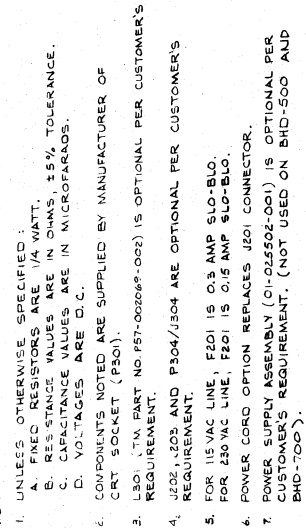
1. RESISTORS UNLESS OTHERWISE NOTED ARE 1/4W.
2. CAPACITORS UNLESS OTHERWISE NOTED ARE 50V.
3. * ADJUSTED



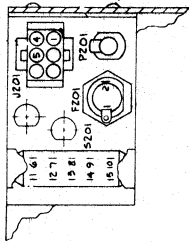
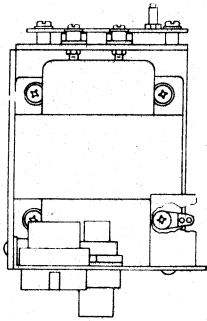
A technical drawing of a bolt and nut assembly. The bolt is shown in profile, passing through a hole in a plate. The nut is threaded onto the end of the bolt. The plate has two other holes, one above and one below the central one.

[illegible]

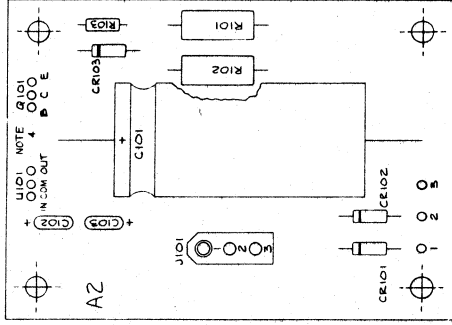
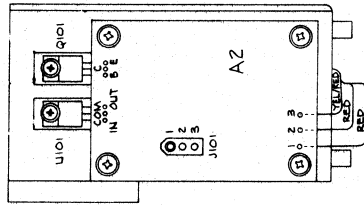
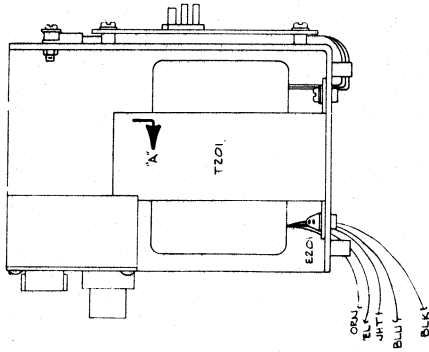




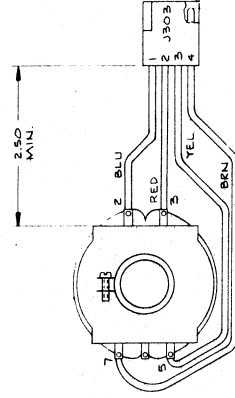
DO NOT SCALE THIS DRAWING UNLESS OTHERWISE INDICATED	DRAWN BY <i>W. J. L.</i> DATE <i>8-2-79</i>	 TeleMation A Division of Bell & Howell
UNLESS OTHERWISE INDICATED	APPROVED BY <i>W. J. L.</i> DATE <i>8-2-79</i>	
TOLERANCES UNLESS OTHERWISE INDICATED	THIS MATERIAL IS AND CONTAINS CONFIDENTIAL INFORMATION OF BELL & HOWELL. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF BELL & HOWELL.	
— BHD-720 BHD-500 BHD-500 BHD-500 BHD-720	APPROVED BY <i>W. J. L.</i> DATE <i>8-2-79</i> THIS MATERIAL IS AND CONTAINS CONFIDENTIAL INFORMATION OF BELL & HOWELL. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF BELL & HOWELL.	
NET ASSEMBLY USED ON	Dwg NO <i>51-025500-000</i> Scale <i>AS SHOWN</i> Copyright, 1979 Bell & Howell Company. All rights reserved.	
APPLICATION	INTERCONNECTION DIAGRAM BHD SERIES MONITOR	
	SHEET 1 OF 1	



SECTION A-A



ITEM NO.		QTY.	DESCRIPTION	PART NO.	
LIST OF MATERIALS					
DO NOT SCALE THIS DRAWING					
DIMENSIONS IN INCHES					
UNLESS OTHERWISE INDICATED					
TOLERANCES					
UNLESS OTHERWISE INDICATED					
FRACTIONS					
ANGLES					
APPROVED BY: <i>[Signature]</i> DATE: 10/1/79					
TELEMETRIC A Division of Bell & Howell					
ASSEMBLY, REGULATOR CARD					
DRAWN BY: <i>[Signature]</i> DATE: 10/1/79					
CHECKED BY: <i>[Signature]</i> DATE: 10/1/79					
NO. REV. DATE					
01-025503	1	01-025503-001	01-025503-001	01-025503-001	01-025503-001
SCALE 2/1					
SHEET 1 OF 1					



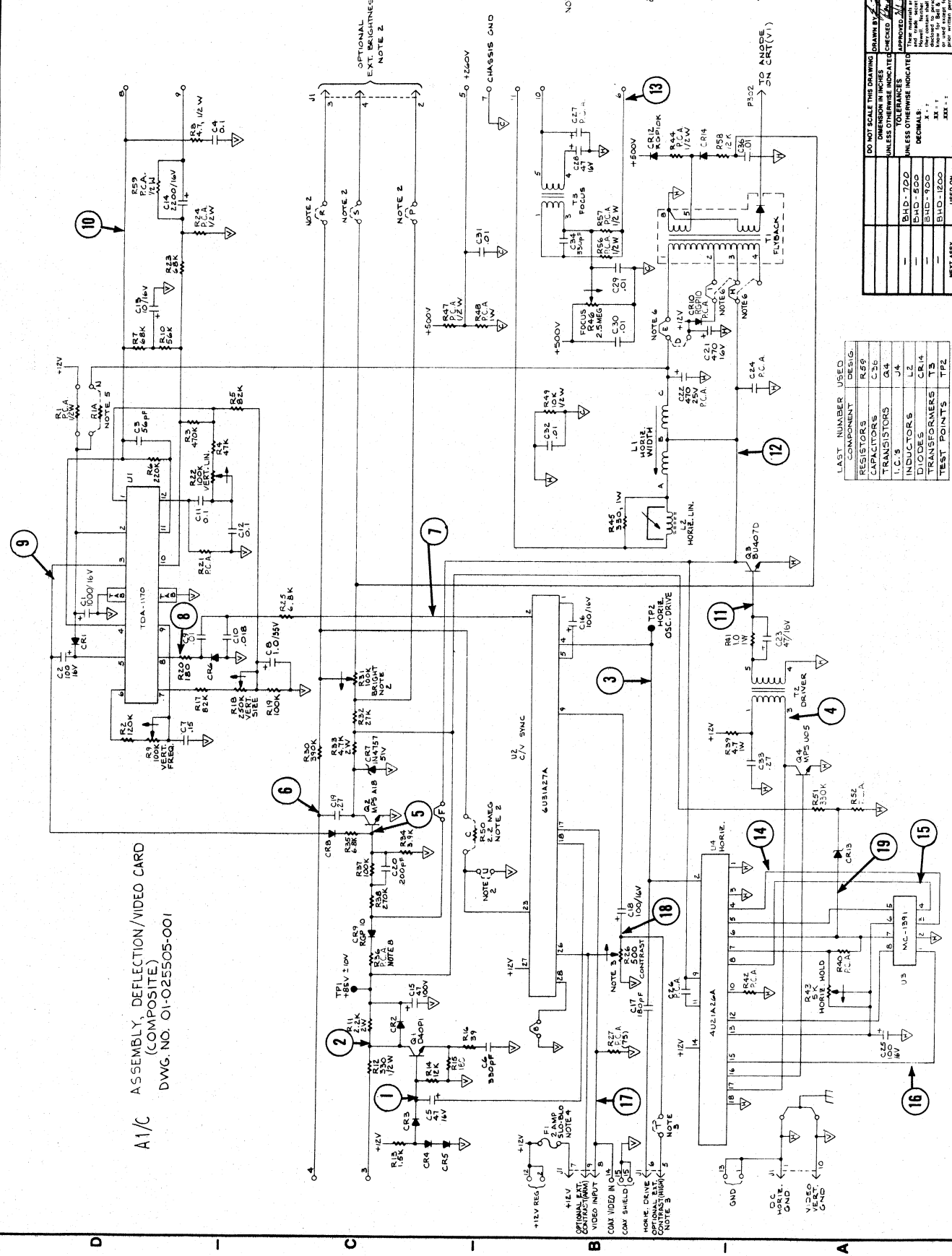
DO NOT SCALE THIS DRAWING		DRAWN BY: <u>SG</u> DATE: <u>10/1/79</u>	
DIMENSIONS IN INCHES		CHECKED BY: <u>SG</u> DATE: <u>10/1/79</u>	
UNLESS OTHERWISE INDICATED		TELEMETRIC A Division of Bell & Howell	
TOLERANCES		ASSEMBLY, POWER SUPPLY	
DIMENSIONS		DRAWN BY: <u>SG</u> DATE: <u>10/1/79</u>	
UNLESS OTHERWISE INDICATED		CHECKED BY: <u>SG</u> DATE: <u>10/1/79</u>	
FRACTIONS		NO. REV. DATE	
ANGLES		D A NO 01-0256028-TAB	
APPROVED BY: <u>SG</u> DATE: <u>10/1/79</u>		SCALE 1/1	
SHEET 1 OF 1		SHEET 1 OF 1	

01-025028-005	POWER CORD	—			
01-025028-004	6 PIN CONN	—			
01-025028-003	ENCLOSURE	—			
01-025028-002	POWER CORD	A	2515-2	EDT	3/1/80
01-025028-001	6 PIN CONN.	A	2515-1	EDT	3/1/80
PART NO.	DESCRIPTION	REVISE	ECO NO.	INC. BY	DATE
TABULATION		REVISION STATUS			

DO NOT SCALE THIS DRAWING		DATE 8/1/79	
DIMENSIONS IN INCHES		DRAWN BY [Signature]	
UNLESS OTHERWISE INDICATED		CHECKED [Signature]	
TOLERANCES		APPROVED [Signature]	
DIMENSIONS		DATE 11/1/79	
UNLESS OTHERWISE INDICATED		TELEMETRIC A Division of Bell & Howell	
FRACTIONS		ASSEMBLY	
ANGLES		DESCRIPTION	
APPROVED BY: [Signature]		DATE	
TELEMETRIC		REV	
ASSEMBLY		NO	
DESCRIPTION		DWG	
DATE		SCALE	
REV		SHEET	
NO		OF	
DWG		1	
SCALE		1/1	
SHEET		1	
OF		1	

REVISIONS		DATE		APPROVED	
LETTER	DESCRIPTION				
A	RELEASED TO PRODUCTION				
B	INCORPORATED EGO NO 6577-4 10/28/69				
C	INCORPORATED EGO NO 6523-4 10/28/69				

A1/C ASSEMBLY, DEFLECTION/VIDEO CARD
(COMPOSITE)
DWG. NO. 01-025505-001



COMPONENT	DESIGN
RESISTORS	REF
CAPACITORS	C36
TRANSISTORS	Q4
IC'S	Q4
INDUCTORS	Q2
DIODES	CR14
TRANSFORMERS	T3
TEST POINTS	TP2

DO NOT SCALE THIS DRAWING
DIMENSIONS IN INCHES
UNLESS OTHERWISE INDICATED
UNLESS OTHERWISE INDICATED

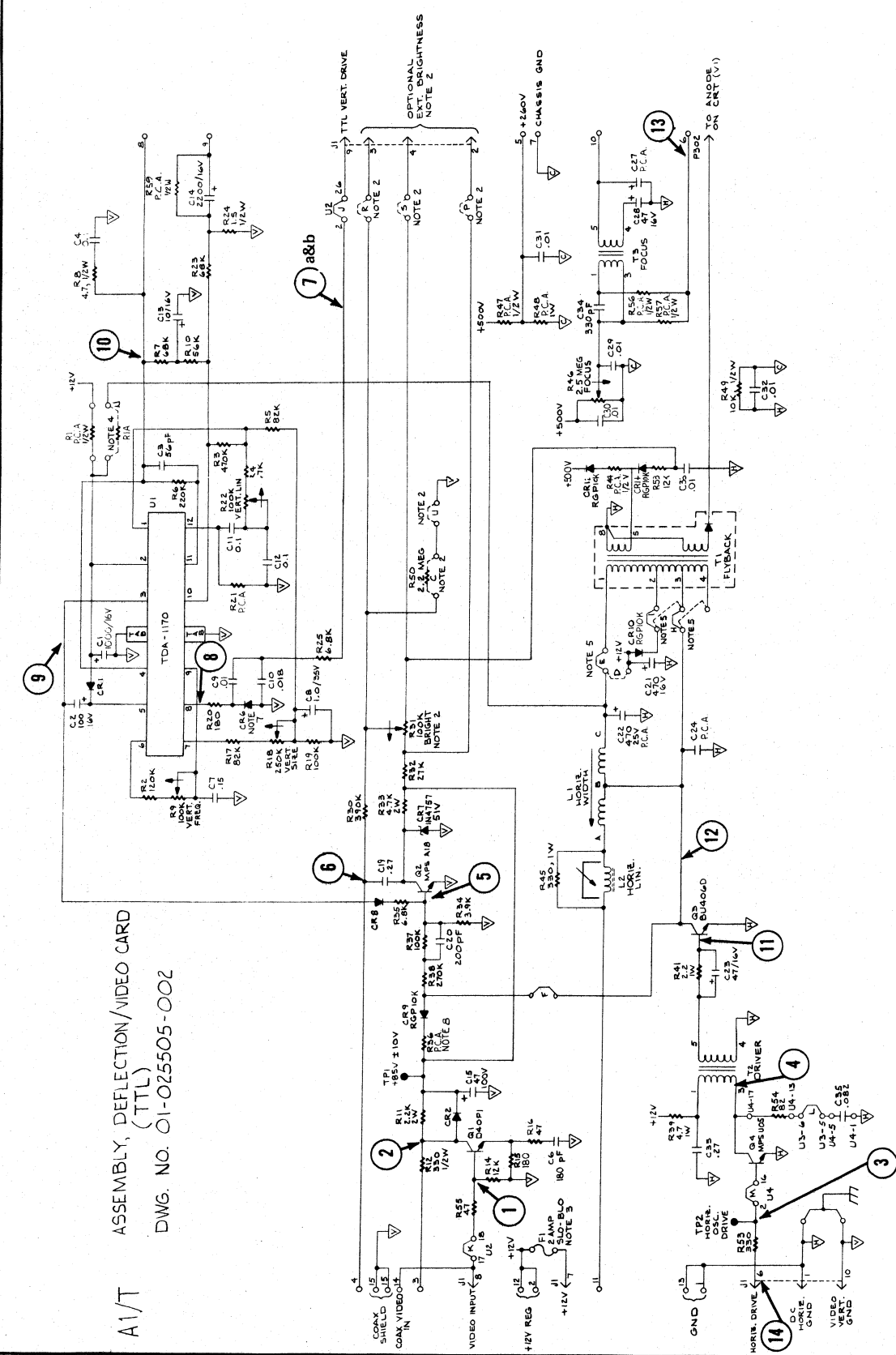
DATE: 10/28/69
APPROVED: [Signature]
ELECTRICAL SCHEMATIC
DEFLECTION/VIDEO CARD
(COMPOSITE)
A1/C

SIZE: 11x17
REV: 3
DWG: 01-025505-000
SHEET: 1 OF 1

- NOTES:
1. UNLESS OTHERWISE SPECIFIED:
A. WIRE RESISTORS ARE 1/4 WATT.
B. RESISTANCE VALUES ARE IN OHMS, 1% TOL.
C. CAPACITANCE VALUES ARE IN MICROFARADS.
D. VOLTAGES ARE IN VOLTS.
E. DIODES ARE IN INCHES.
 2. FOR OPTIONAL EXTERNAL BRIGHTNESS CONTROL (SUPPLIED BY CUSTOMER - TRU 91 CONNECTOR):
OMIT BRIGHT POT (R50), INSTALL 2.2 MEG RESISTOR (R50), AND INSTALL JUMPER AS INDICATED BY DASHED LINES.
 3. FOR OPTIONAL EXTERNAL CONTRAST CONTROL (SUPPLIED BY CUSTOMER - TRU 91 CONNECTOR):
OMIT CONTRAST POT (R51), AND INSTALL JUMPER AS INDICATED BY DASHED LINES.
 4. FOR OPTIONAL EXTERNAL 12VDC POWER (SUPPLIED BY CUSTOMER - TRU 91 CONNECTOR):
INSTALL 2.2K 1/2W 1% J5B (F1).
 5. OPTIONAL LOCATION FOR R1 (1/4 WATT), INSTALLED BY FACTORY WHEN REQUIRED.
 6. JUMPER SET BY FACTORY AS REQUIRED.
 7. PC-2 - PER CUSTOMER APPLICATION.
 8. FOR 9" AND 11" MONITORS USE 1/2 WATT FEEDBACK.
 9. FOR 5" AND 7" MONITORS USE 1/2 WATT FEEDBACK.

A1/T ASSEMBLY, DEFLECTION/VIDEO CARD (TTL) DWG. NO. 01-025505-002

REVISIONS	DATE	APPROVED
1	12/28/84	
2	12/28/84	
3	12/28/84	
4	12/28/84	
5	12/28/84	
6	12/28/84	
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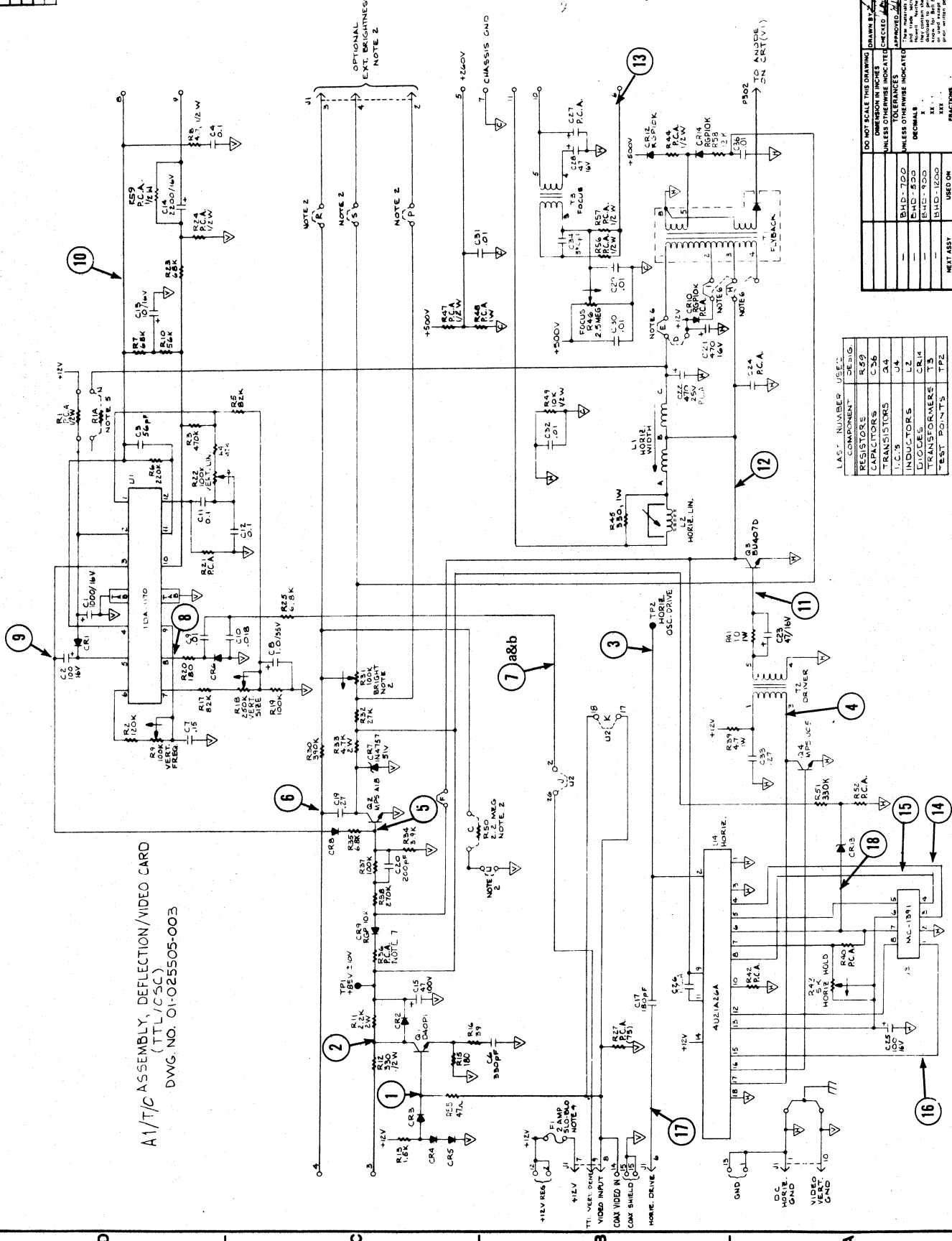
- NOTES:
- UNLESS OTHERWISE SPECIFIED:
A. FIXED RESISTORS ARE 1/4 WATT.
B. RESISTANCE VALUES ARE IN OHMS, ±5% TOL.
C. CAPACITANCE VALUES ARE IN MICROFARADS.
D. DIODES ARE IN AMPERES.
E. DIODES ARE IN VOLTS.
F. FOR OPTIONAL EXTERNAL BRIGHTNESS CONTROL, OMIT BRIGHT POT (R31), INSTALL 2.2 MEG RESISTOR (R30), AND INSTALL JUMPERS AS INDICATED BY DASHED LINES.
G. FOR OPTIONAL EXTERNAL ±12VDC POWER, INSTALL 2 AMP SLO-BLO FUSE (F1).
H. OPTIONAL LOCATION FOR R1 (1/4 WATT), INSTALLED IN FACTORY BY CUSTOMER.
I. JUMPERS SET BY FACTORY AS REQUIRED.
J. P.C.A. - PER CUSTOMER APPLICATIONS.
 - DIODE CRG-45 SHOWN USED FOR POSITIVE VERTICAL SYNC. REVERSE POLARITY OF CRG FOR NEGATIVE VERTICAL SYNC.
 - FOR 5" AND 12" MONITORS USE 1/2 WATT RESISTOR (R36).

LAST NUMBER USED	DESIG.
COMPONENT	
RESISTORS	R59
CAPACITORS	C36
TRANSISTORS	Q4
I.C.'S	U4
INDUCTORS	L2
DIODES	CR4
TRANSFORMERS	T3
TEST POINTS	TP2

DO NOT SCALE THIS DRAWING	DATE	APPROVED
UNLESS OTHERWISE INDICATED	12/28/84	
TOLERANCES		
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TeleMetric
A1/T
ELECTRONIC SCHEMATIC
DEFLECTION VIDEO CARD (TTL)
A1/T
DWG NO 01-025505-000
SCALE NONE
SHEET 1 OF 1

MEMORANDUM			
LETTER	DESCRIPTION	DATE	APPROVED
—	RELEASED TO PRODUCTION		
A	INCORPORATED ECO NO. 6571-5	2/22/40	SEA
B	INCORPORATED ECO NO. 6523-5	2/22/40	CHA

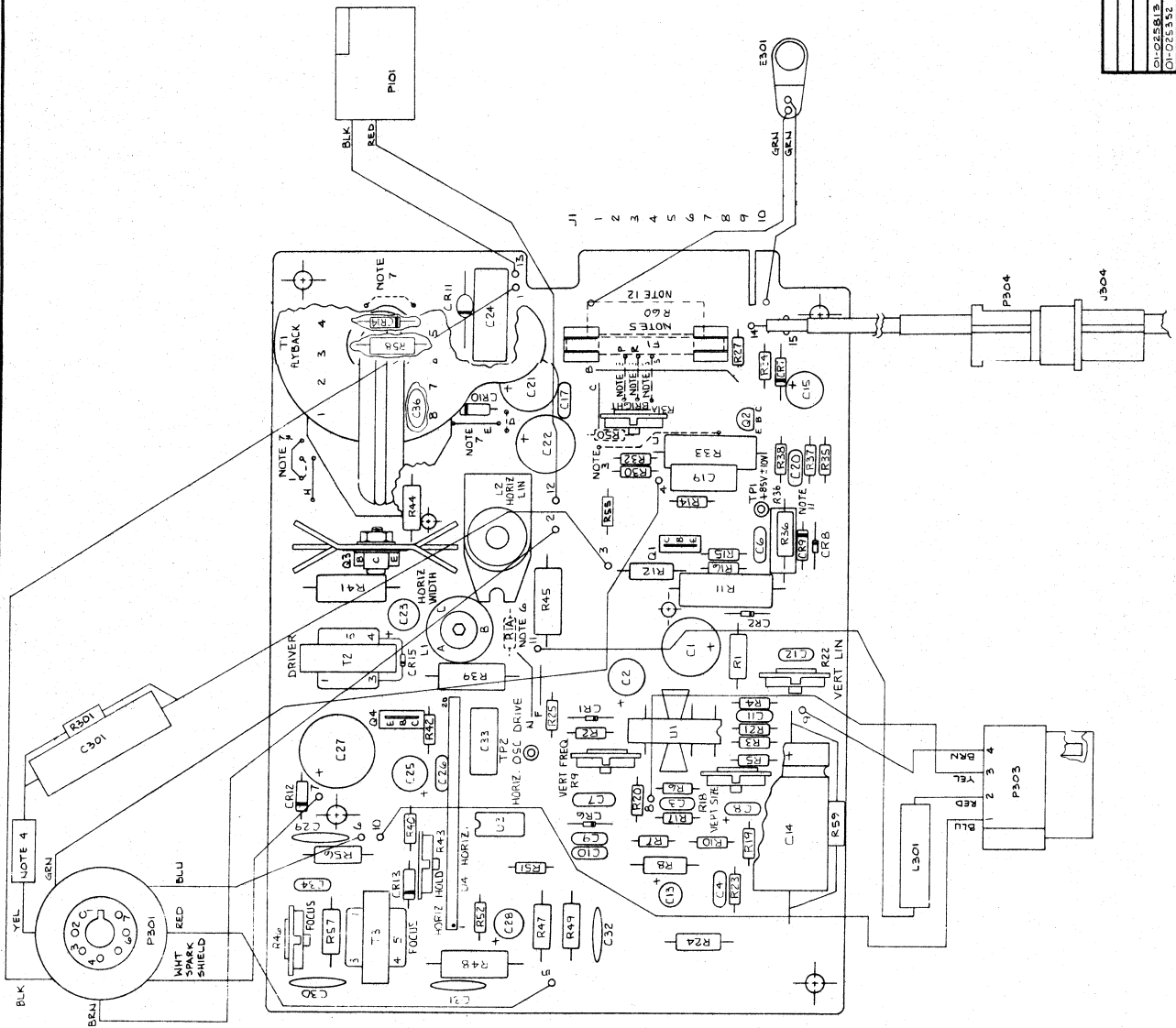


1. VALUES OF THERMISTORS SPECIFIED :
 - A. FIXED RESISTORS ARE 1/4 WATT.
 - B. RESISTANCE VALUES ARE 10 OHMS, 15% TOL.
 - C. CAPACITANCE VALUES ARE IN MICROFARADS.
 - D. VOLTAGES ARE D.C.
2. DIODES ARE 1N4148.
3. FOR OPTIONAL EXTERNAL BRIGHTNESS CONTROL (SUPPLIED BY CUSTOMER THRU PI CONNECTOR); OMIT BRIGHT POT (R31A), INSTALL 2.2 MEG RESISTOR (R50), AND INSTALL JUMPER AS INDICATED BY DASHED LINES.
4. P.C.A. - PER CUSTOMER APPLICATION.
5. FOR OPTIONAL EXTERNAL +12VDC POWER (SUPPLIED BY CUSTOMER THRU PI CONNECTOR); INSTALL 2 AMP 5.0-BOLO FUSE (F1).
6. OPTIONAL LOCATION FOR R1 (1/4 WATT), INSTALLED BY FACTORY WHEN REQUIRED.
7. JUMPERS SET BY FACTORY AS REQUIRED.
8. FOR 9" AND 12" MONITORS USE 1 WATT RESISTOR (R31C).
9. FOR 8.5" AND 7" MONITORS USE 1/2 WATT RESISTOR (R31B).

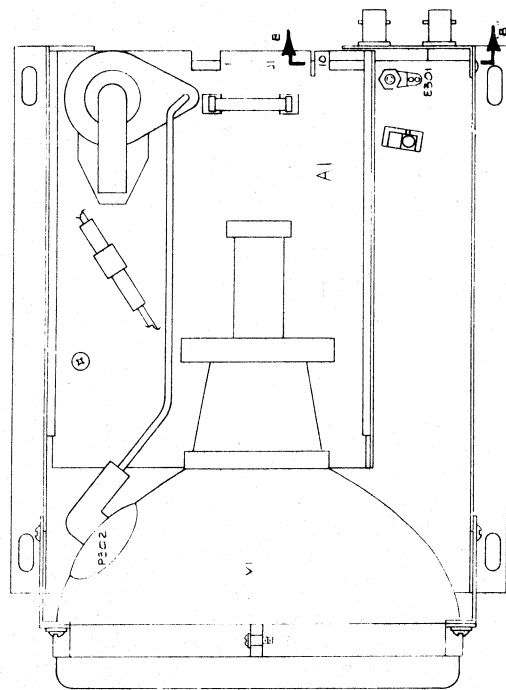
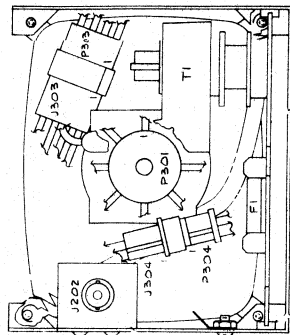
[illegible]

REVISIONS			DATE	APPROVED
LETTER	DESCRIPTION	RELEASED TO PRODUCTION		
A	INCORPORATED E.O. NO 4572-2	1/2/60	1/2/60	
B	INCORPORATED E.O. NO 4571-2	1/2/60	1/2/60	
C	INCORPORATED E.O. NO 4573-2	1/2/60	1/2/60	
D	INCORPORATED E.O. NO 4544-2	1/2/60	1/2/60	
E	INCORPORATED E.O. NO 4548-2	1/2/60	1/2/60	
F	INCORPORATED E.O. NO 4542-2	1/2/60	1/2/60	
G	INCORPORATED E.O. NO 4543-2	1/2/60	1/2/60	
H	INCORPORATED E.O. NO 4545-2	1/2/60	1/2/60	

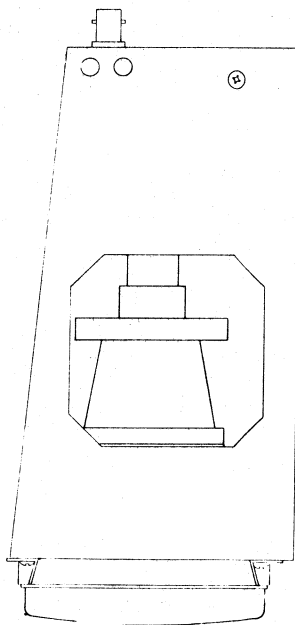
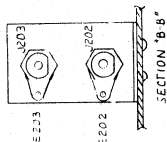
- NOTES:
1. LIST OF MATERIALS: LM01-025505-003.
 2. ELECTRICAL SCHEMATIC: 50-026241-000.
 3. FOR OPTIONAL EXTERNAL BRIGHTNESS CONTROL (SUPPLIED BY CUSTOMER THRU PI CONNECTOR); OMIT BRIGHT POT (33A), INSTALL 2.2 MEGA 1/4 WATT RESISTOR (35Q), AND INSTALL JUMPERS AS INDICATED BY DASHED LINE.
 4. THIS IN LINE COMPONENT (PART OF ITEMS 10, 14 AND 35) MAY BE RELOCATED, IN LINE, TO FACILITATE ADDITIONAL COMPONENT INSTALLATION.
 5. FOR OPTIONAL EXTERNAL +12VDC POWER (SUPPLIED BY CUSTOMER THRU PI CONNECTOR); INSTALL 2 AMP FUSE (F1), OPTIONAL LOCATION FOR RESISTOR 1/4 WATT INSTALLED BY FACTORY WHEN REQUIRED.
 6. FOR 3" AND 12" MONITORS USE 1 WATT RESISTOR (13B), FOR 5" AND 7" MONITORS USE 1/2 WATT RESISTOR (13B).
 7. RESISTOR 360 SHALL BE USED IN PLACE OF F1 FOR 5" MONITOR OPERATION.



DO NOT SCALE THIS DRAWING		DRAWN BY: [Signature]	DATE: 1/2/60	CHECKED BY: [Signature]	DATE: 1/2/60	APPROVED BY: [Signature]	DATE: 1/2/60
TOLERANCES		UNLESS OTHERWISE INDICATED					
DECIMALS		UNLESS OTHERWISE INDICATED					
FRACTIONS		UNLESS OTHERWISE INDICATED					
ANGLES		UNLESS OTHERWISE INDICATED					
APPLICATION		UNLESS OTHERWISE INDICATED					
BHD-700		BHD-700					
BHD-500		BHD-500					
BHD-300		BHD-300					
BHD-1200		BHD-1200					
HEAT ASBY		USED ON					
ASSEMBLY		DEFLECTION / VIDEO CHIPS					
TELEVISION		ASSEMBLY					
DEFLECTION / VIDEO CHIPS		(TTL/OSC) N/T/D					
SIZE		DWG NO 01-025505-003					
REV		SCALE 2/1					
SHEET		3 OF 4					



VIEW A-A



NUMBER CONNECTION DIAGRAM: 51-025500-000.

DO NOT SCALE THIS DRAWING	DRAWN BY: <i>CSH</i>	DATE: <i>2/26/68</i>	 TeleMation A Division of Bell & Howell
DIMENSION IN INCHES	CHECKED: <i>WHL</i>	DATE: <i>8/20/67</i>	
UNLESS OTHERWISE INDICATED	APPROVED: <i>WHL</i>	CONTRACT NO. <i>01-025352</i>	
TOLERANCES UNLESS OTHERWISE INDICATED DECIMALS .125 - .0015 .0015 - .0005 .0005 - .0002 .0002 - .0001 .0001 - .00005 .00005 - .00001			
BHD - 500 R.T. BHD - 500 BHD - 500	The material for this drawing was furnished by Bell & Howell. No other information of Bell & Howell is to be used in this drawing. This drawing is to be used for the purpose of manufacturing parts. It is not to be used for any other purpose. For your written permission of Bell & Howell. Company, All rights reserved.		
PART ASBY APPLICATION	SIZE SCALE	NET 1/1	DWG NO. 01-025352-TAB
			SHEET 1 OF 1

01-025532-200	KIT	-	6511-2	BOX	7/1/80	Completed
01-025532-001	SHOWN	B				
	DESCRIPTION	REV LTR	ECO NO.	INC.	BY	DATE APPROVED
PART NO	TABULATION	REVISION STATUS				

DO NOT SCALE THE DRAWING	DATE: <u>10/1/77</u>	DESIGNED BY: <u>W. J. H. H.</u>	DATE: <u>10/1/77</u>	 The Motion A Drive
ENGLISH IN INCHES	CHECKED BY: <u>W. J. H. H.</u>	DATE: <u>10/1/77</u>	SIZE: <u>D</u> TAB: <u>1</u> SHEET: <u>1</u> DATE: <u>10-02-77</u> NO: <u>3-TAB</u>	
UNLESS OTHERWISE SPECIFIED	TOLERANCES: <u>±.005</u> <u>±.002</u> <u>±.001</u>	DECIMALS: <u>2</u> <u>3</u> <u>4</u>	UNITS: <u>INCHES</u>	ASSEMBLY 7" MONITOR
BHD-700 KIT BHD-700 BHD-700	NET ASBY USED ON APPLICATION	THIS DRAWING IS THE PROPERTY OF THE MOTION DRIVE COMPANY. IT IS TO BE USED ONLY FOR THE PURPOSES SPECIFIED HEREON. IT IS NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE MOTION DRIVE COMPANY.	THIS DRAWING IS THE PROPERTY OF THE MOTION DRIVE COMPANY. IT IS TO BE USED ONLY FOR THE PURPOSES SPECIFIED HEREON. IT IS NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE MOTION DRIVE COMPANY.	THIS DRAWING IS THE PROPERTY OF THE MOTION DRIVE COMPANY. IT IS TO BE USED ONLY FOR THE PURPOSES SPECIFIED HEREON. IT IS NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE MOTION DRIVE COMPANY.

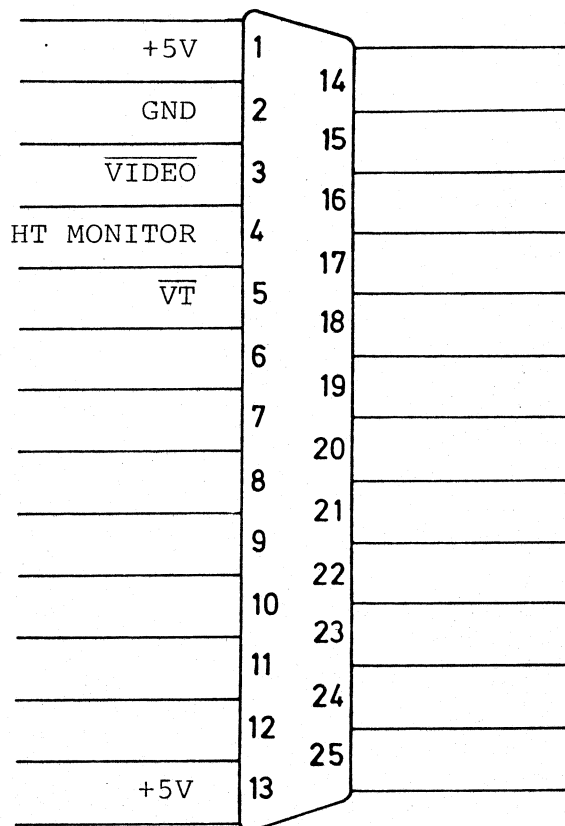
01-025613-002	7" MONITOR KIT	-				
01-01-026813-001	7" MONITOR (KNOWN)	B	CS11-1	BDT	3/6/80	CCF AND JAMES
PART NO.	DESCRIPTION	REV LTR	ECO NO.	INC. BY	DATE	APPROVED
TABULATION						SAMPLES

GPIB BUS CONNECTOR

DIO 1	1	13	DIO 5
DIO 2	2	14	DIO 6
DIO 3	3	15	DIO 7
DIO 4	4	16	DIO 8
EOI	5	17	REN
DAV	6	18	GND
NRFD	7	19	GND
NDAC	8	20	GND
IFC	9	21	GND
SRO	10	22	GND
ATN	11	23	GND
	12	24	GND

							
						BPIB ON REAR PANEL	
						PART NUMBER	
						5 4850 - 01	
						SHEET	
						5 / 9	

(ATTACHED TO MB ON BOTTOM TO J1 OF RC.)

[illegible]