INTERTEC DATA SYSTEMS®

PRODUCT SCHEMATICS PACKAGE

SUPERBRAIN/SUPERBRAIN II
PRODUCT SCHEMATICS PACKAGE

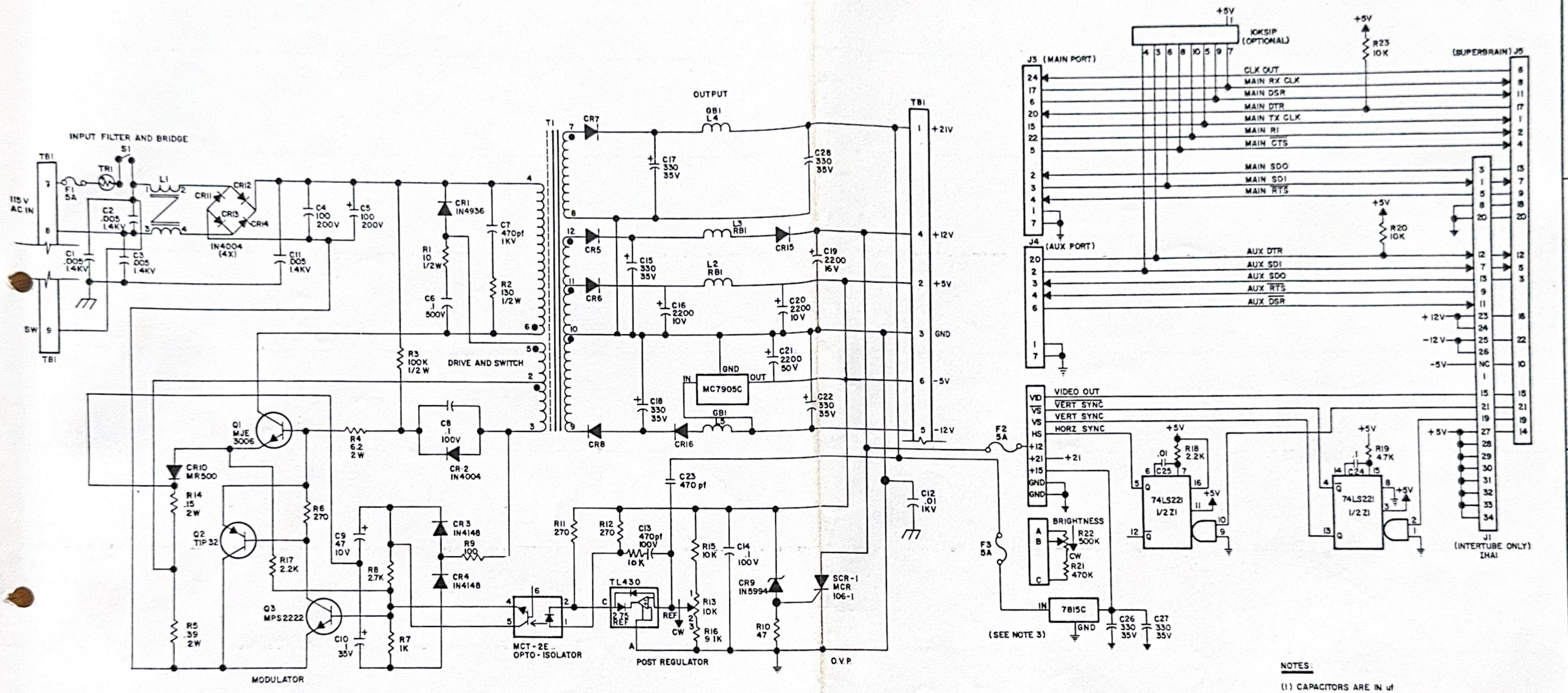
April, 1982

DRAWING/MODULE RELATIONSHIP TABLE

odules	DRAWING NUMBERS 400023	400027	400016	400017	200027	200028	200016	200017	500002	500037, Rev. A	500030 (2 Sheets)	500028	200029 (2 Sheets)	200030	200010 (2 Sheets)	200011 (2 Sheets)	200033 (2 Sheets)	200034	200031	200032	500018	200020	500048	200047
uperbrain	•	•			•	•			•	•			•	•	•	•	•	•	•	•	•			
uperbrain II			•	•	•	•	•	•			•	•	•	•	•	•	•	•	•	•				

b Designations	VPU POWER SUPPLY	CRT	TRAN-SITION BOARD	KEYBOARD/CPU MODULE	DISK DRIVES	HARD DISK ADAPTOR

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED



NOTES:

(1) CAPACITORS ARE IN uf
(2) RESISTORS ARE IN OHMS
(3) MOUNTED ON CRT FRAME

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			PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE
FRACTIONS ± DECIMALS .XX ± .XXX ± ANGLES ±

MATERIAL

FINISH

NEXT ASSY | USED ON

APPLICATION

DO NOT SCALE DRAWING

CONTRACT NO.

APPROVALS		DATE
DRAWN	SWH	6-18-81
CHECKED	GNL	6-18-81

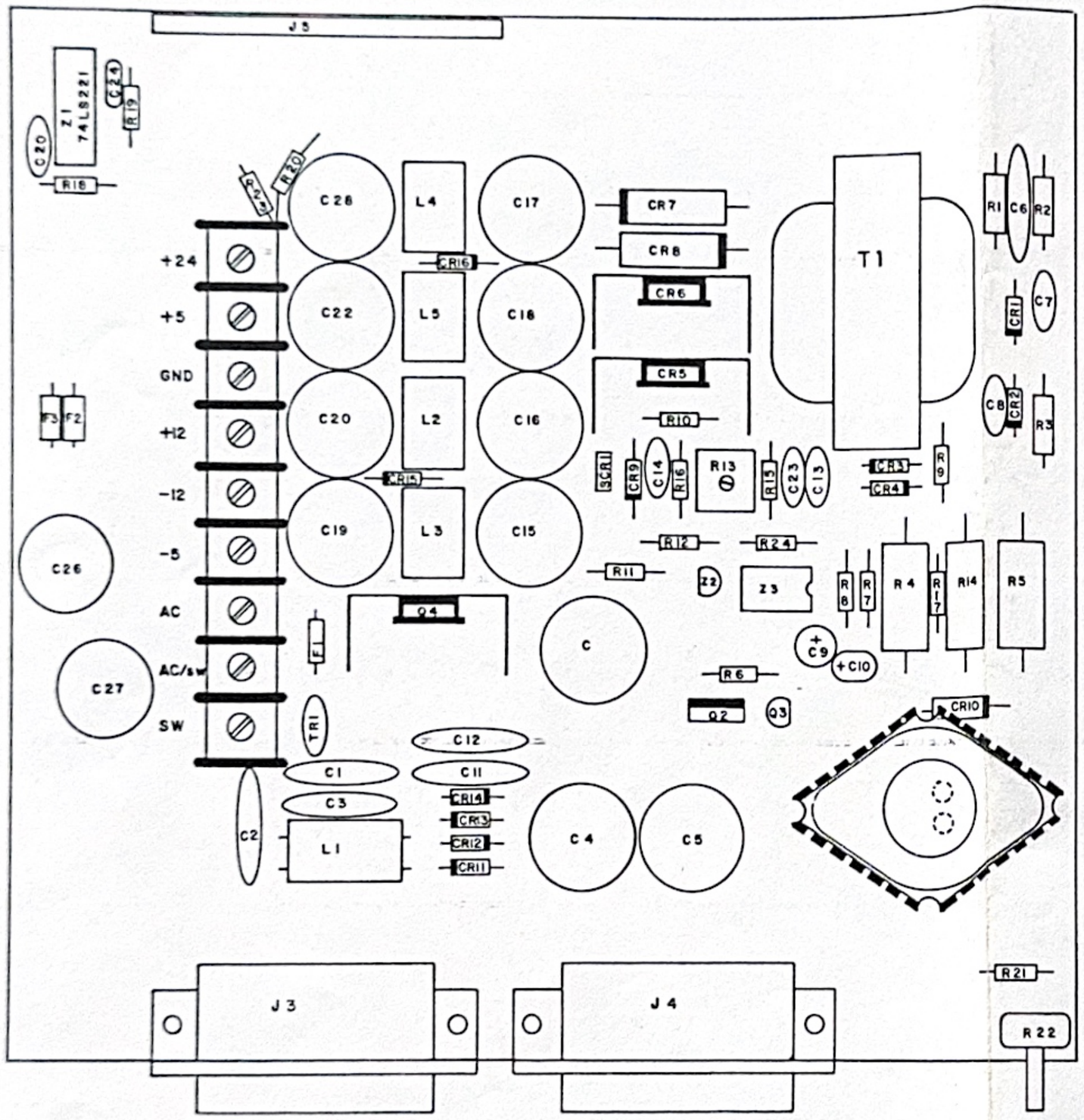
Intertec Data Systems

VPU
POWER SUPPLY SCHEMATIC

SIZE	CODE IDENT NO.	DRAWING NO.
D	S110	400023

SCALE —— SHEET 1 OF 1

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	A	RELEASED	11-3-81	



RESISTORS

R1	10	1/2W
R2	130	1/2W
R3	100K	1/2W
R4	6.2	2W
R5	.39	2W ±10%
R6	270	
R7	1K	
R8	2.7K	
R9	100	
R10	47	
R11	270	
R12	270	
R13	10K	
R14	J5	2W ±10%
R15	10K	
R16	9.1K	
R17	2.2K	
R18	2.2K	
R19	4.7K	
R20	10K	
R21	470K	
R22	500K	
R23	10K	
R24	10K	

DIODES

CR1	IN4936
CR2	IN4004
CR3	IN4148
CR4	IN4148
CR5	BYW 2950
CR6	BYW 2950
CR7	HR100
CR8	HR100
CR9	IN5994
CR10	HR 050
CR11	IN4004
CR12	IN4004
CR13	IN4004
CR14	IN4004
CR15	IN4004
CR16	IN4004
SCR1	MCR 106-1

CAPACITORS

C1	.005	1KV
C2	.005	1KV
C3	.005	1KV
C4	100	200V
C5	100	200V
C6	J	500V
C7	470 pf	1KV
C8	J	100V
C9	47	10V
C10	1	35V
C11	.005	1KV
C12	.01	1KV
C13	470 pf	100V
C14	J	100V
C15	330	35V
C16	2200	10V
C17	330	35V
C18	330	35V
C19	2200	16V
C20	4700	10V
C21	2200	10V
C22	330	35V
C23	470 pf	
C24	J	
C25	.01	
C26	330	35V
C27	330	35V
C28	330	35V

TRANSISTORS

Q1	MJ3030
Q2	TIP42
Q3	MPS2222
Q4	MC7905C

FUSES

F1	5A
F2	5A
F3	5A
F4	5A
F5	5A

IC'S

Z1	74LS221
Z2	TL430
Z3	MCT 2E

NOTES: 1) UNLESS OTHERWISE SPECIFIED ALL RESISTORS ARE IN OHMS, 1/4W, ±5%.
2) CAPACITORS ARE IN µf.

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CONTRACT NO.

APPROVALS	DATE
DRAWN A. CLANO	11-3-81
CHECKED	

MATERIAL

FINISH

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NEXT ASSY | USED ON

APPLICATION

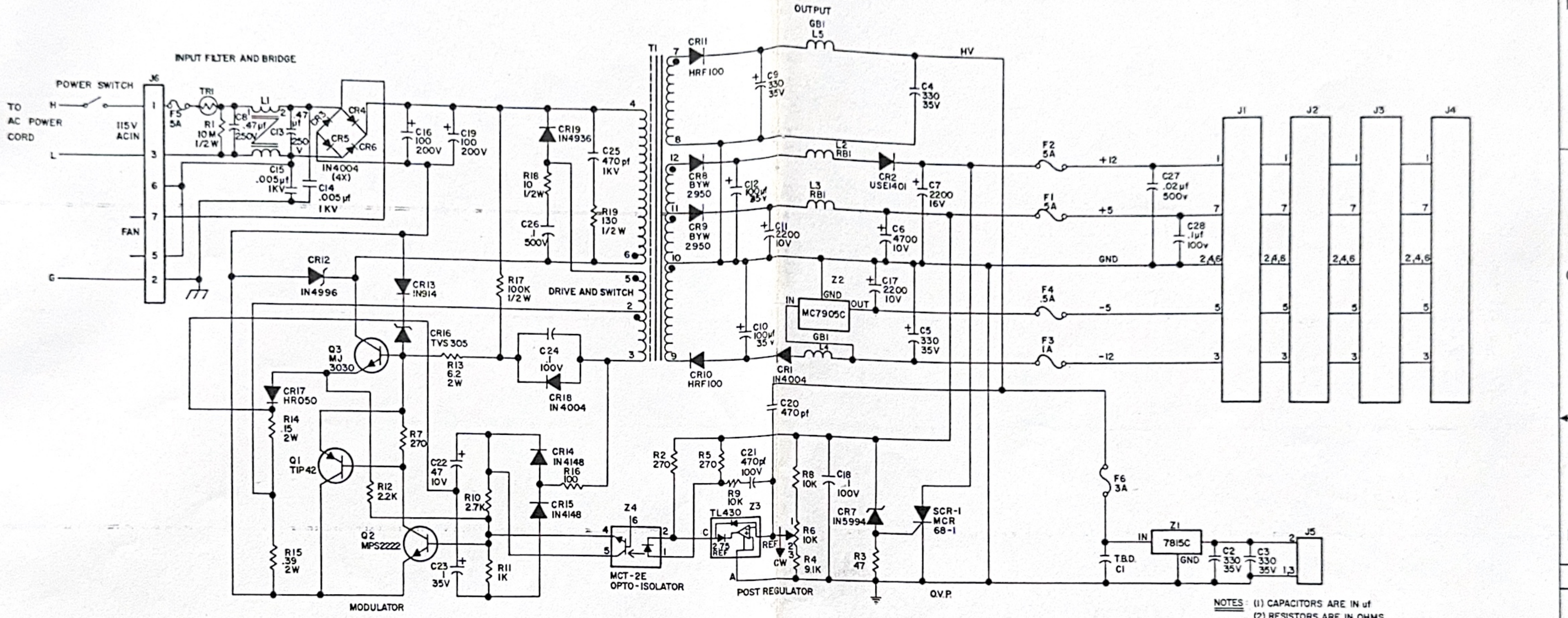
Intertec Data Systems

POWER SUPPLY ASSEMBLY

SIZE D | CODE IDENT NO. | DRAWING NO. 400027

SCALE 2 : 1 | SHEET 1 OF 1

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	A	RELEASED	4-1-82	



NOTES: (1) CAPACITORS ARE IN uf
(2) RESISTORS ARE IN OHMS

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MATERIAL	APPROVALS: DRAWN SWH 8-13-81; CHECKED GNL 8-13-81
FINISH	DO NOT SCALE DRAWING
NEXT ASSY / USED ON / APPLICATION	

Intertec Data Systems

VPU
POWER SUPPLY
SCHEMATIC DIAGRAM

SIZE	CODE IDENT NO.	DRAWING NO.
D		400016

SCALE NTS — SHEET 1 OF 1

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	A	RELEASE	10-14-81	
	B	REVISED PER RECORD COPY	1-18-82	
	C	REVISED PER RECORD COPY	3-9-82	

RESISTORS

R1	10M, 1/2 W
R2	270, 1/4 W
R3	47Ω, 1/4 W
R4	9.1K, 1/4 W
R5	270, 1/4 W
R6	10K VAR
R7	270, 1/4 W
R8	10K, 1/4 W
R9	10K, 1/4 W
R10	2.7K 1/4 W
R11	1K, 1/4 W
R12	2.2K, 1/4 W
R13	6.2 Ω, 2 W
R14	.15Ω, 2W
R15	.39Ω, 2W
R16	100, 1/4 W
R17	100K, 1/2 W
R18	10Ω, 1/2 W
R19	130Ω, 1/2 W

CAPACITORS

C1	TBD
C2	330 µf ELECTROLYTIC
C3	330 µf "
C4	330 µf "
C5	330 µf "
C6	4700 µf "
C7	2200 µf "
C8	.47 µf
C9	330 µf ELECTROLYTIC
C10	100 µf "
C11	2200 µf "
C12	100 µf "
C13	.47 µf
C14	.005 µf
C15	.005 µf
C16	100 µf ELECTROLYTIC
C17	2200 µf "
C18	.1 µf
C19	100 µf ELECTROLYTIC
C20	470 pf
C21	470 pf
C22	47 µf ELECTROLYTIC
C23	1µf
C24	.1µf
C25	470 pf
C26	.1µf
C27	.02 µf
C28	.1µf

THERMISTORS

TR1	RL-4504-10-73-548

DIODES

CR1	IN4004
CR2	USE 1401
CR3	IN4004
CR4	IN4004
CR5	IN4004
CR6	IN4004
CR7	IN5994
CR8	BYW2950
CR9	BYW2950
CR10	HRF100
CR11	HRF100
CR12	IN4996
CR13	IN914
CR14	IN4148
CR15	IN4148
CR16	TVS305
CR17	HR050
CR18	IN4004
CR19	IN4936

SCR's

SCR1	MCR 68-1

TRANSISTORS

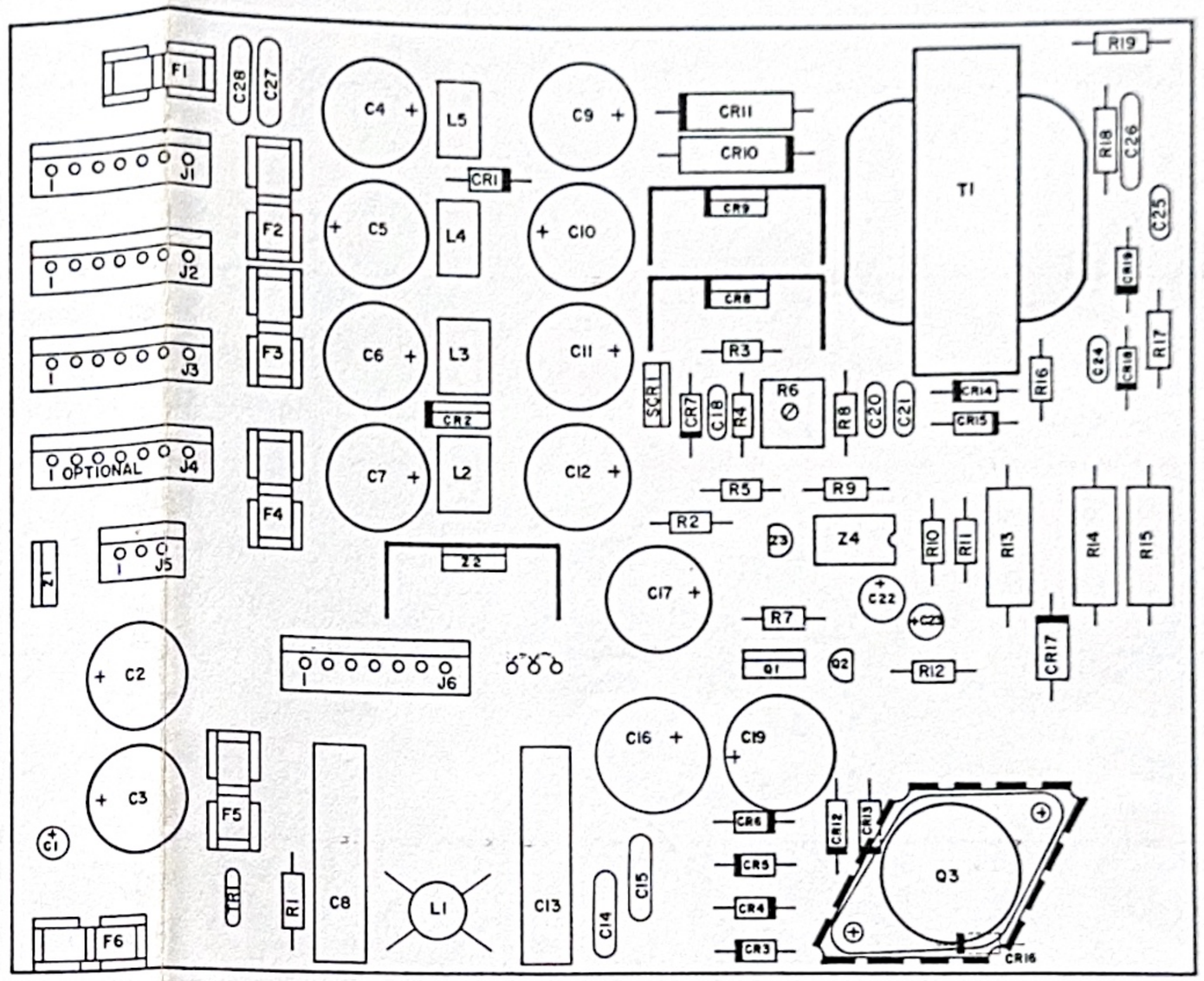
Q1	TIP42
Q2	FPN2222
Q3	MJ3030

IC's

Z1	7815C
Z2	7905C
Z3	TL430
Z4	MCT-2E

FUSES

F1	5 AMP 1AG
F2	5 AMP 1AG
F3	1 AMP 1AG
F4	1 AMP 1AG
F5	5 AMP 1AG
F6	3 AMP 1AG



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			PARTS LIST

NEXT ASSY	USED ON
APPLICATION	

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TOLERANCES ARE
FRACTIONS ± DECIMALS .XX ± .XXX ± ANGLES ±

MATERIAL

FINISH

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CONTRACT NO.

APPROVALS	DATE
DRAWN SWH	10-14-81
CHECKED GKX	10-14-81

Intertec Data Systems

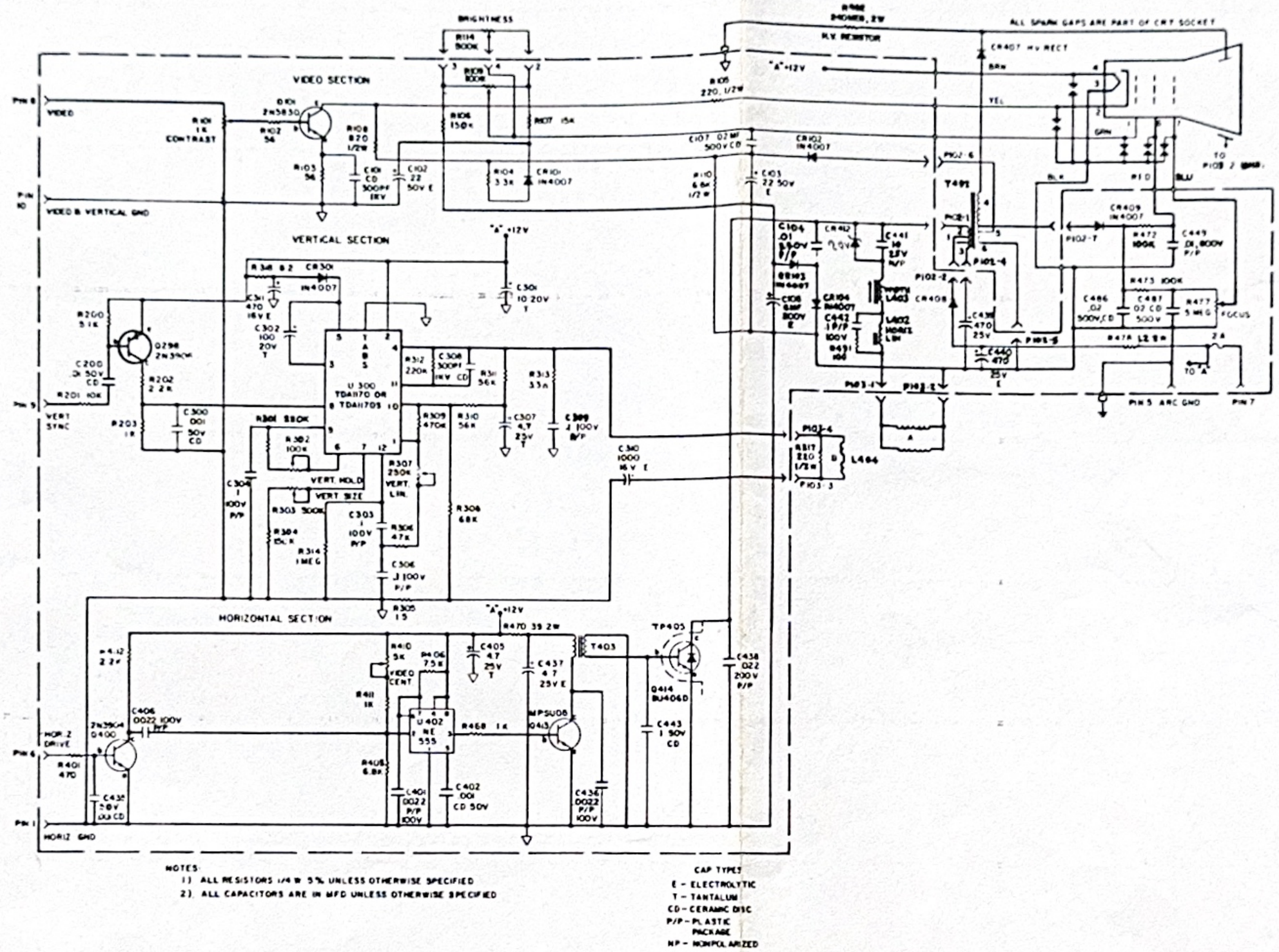
POWER SUPPLY FOR VPU ASSEMBLY DRAWING

SIZE	CODE IDENT NO.	DRAWING NO.
D		400017

SCALE —

SHEET 1 OF 1

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED



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CONTRACT NO.

APPROVALS	DATE
DRAWN	6-5-81
CHECKED GKX	6-5-81

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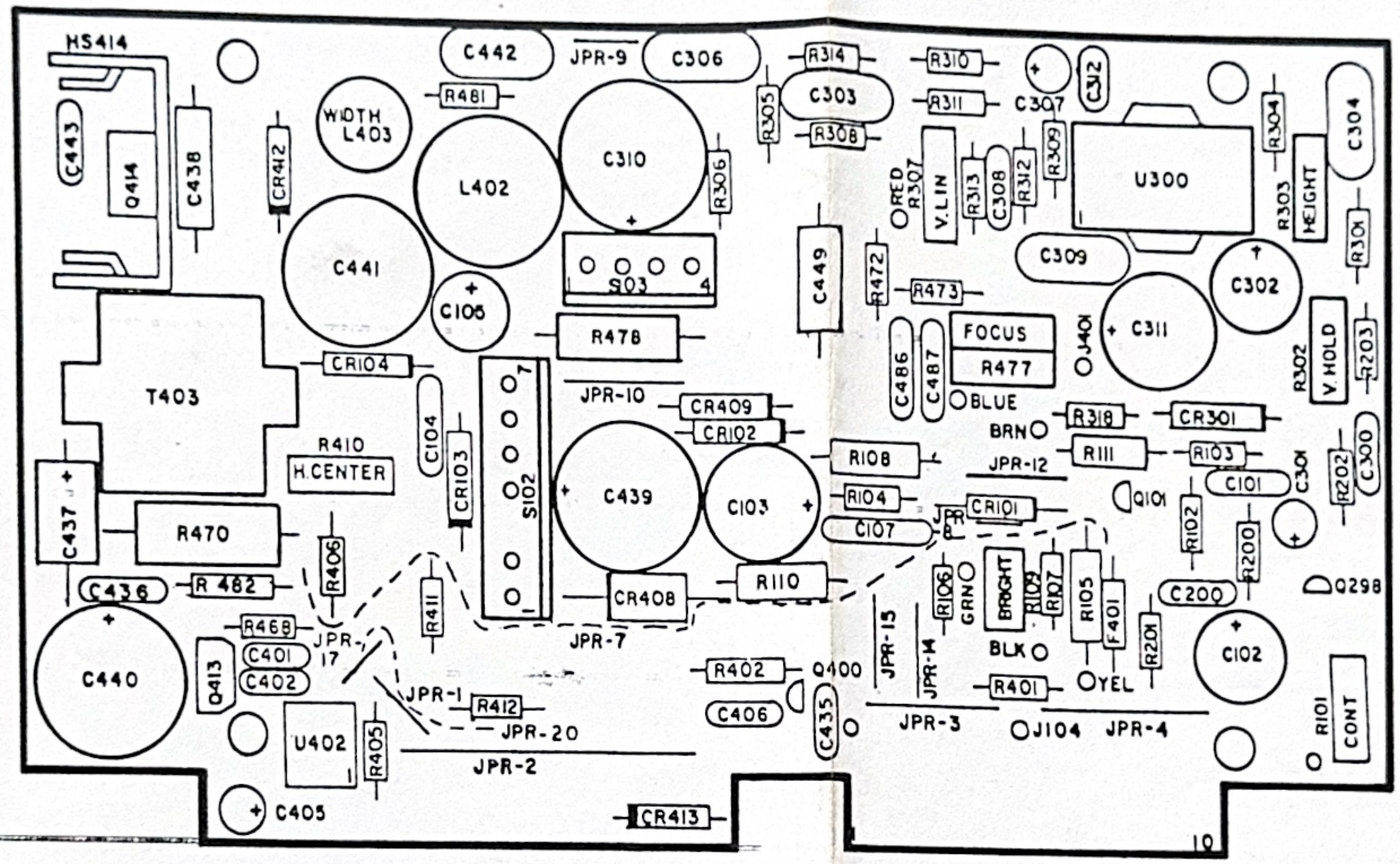
VPU VIDEO PCB
SCHEMATIC DIAGRAM

SIZE	CODE IDENT NO.	DRAWING NO.
B	S 96	200027

SCALE ——— SHEET 1 OF 1

BISHOP GRAPHICS/ACCUPRESS REORDER NO. A-8027

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED



ADDED JPR-20, R412, MOVED C436 R482, R406, J104, BLK, JPR-7	DAC	2/25/81	RGB
ADDED R482, CR413 CHANGED C449 SHAPE	DAC	12-1-80	RGB
UPDATED TO REV 10 PC ADDED C312, JPR-17, R111 MOVED J401, R318, CR301, BRN WAFERS WERE P___	DLW	9-23-80	RGB 9-258
C105 WAS A CERAMIC DISC LABELED J401	DLW	8-12-80	
JPR-15 WAS JPR-13	DLW	8-2-80	
REVISION	BY	DATE	APP'D

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NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
± .XX ± ±
.XXX ±

MATERIAL

FINISH

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CONTRACT NO

APPROVALS	DATE
DRAWN SWH	7-7-81
CHECKED GNL	7-7-81

Intertec Data Systems

VPU VIDEO PCB
ASSEMBLY DRAWING

SIZE	CODE IDENT NO.	DRAWING NO.
B	S105	200028

SCALE ——— SHEET 1 OF 1

BISHOP GRAPHICS/ACCUPRESS REORDER NO. A-8027

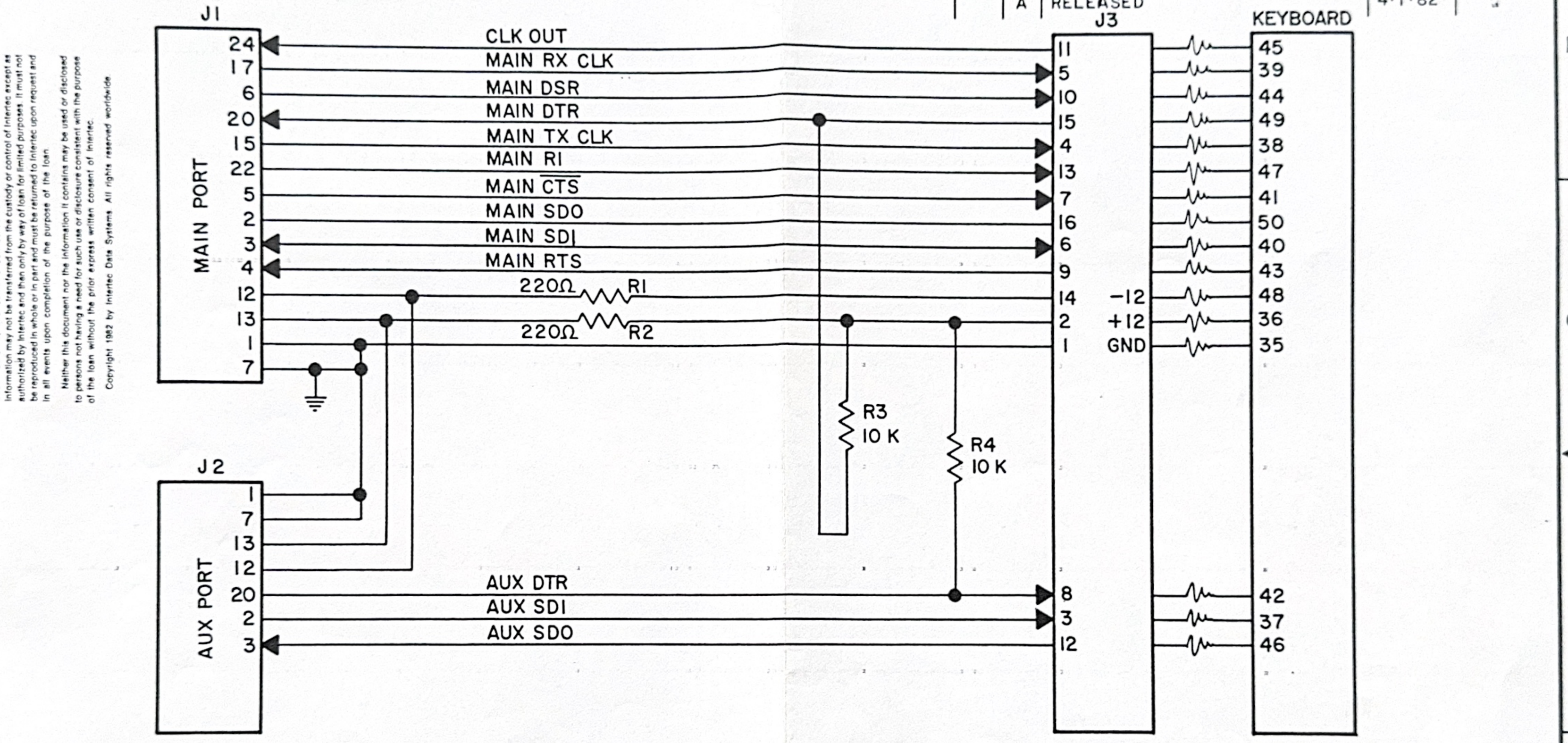
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	A	RELEASED	4·1·82	

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		MATERIAL	DRAWN SWH	10·13·81
			CHECKED GKX	10·13·81
		FINISH		
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APPLICATION		DO NOT SCALE DRAWING		

Intertec Data Systems

TRANSITION BOARD
SCHEMATIC DIAGRAM

SIZE	CODE IDENT NO.	DRAWING NO.
B		200016

SCALE —— SHEET 1 OF 1

BISHOP GRAPHICS/ACCUPRESS REORDER NO. A-8027

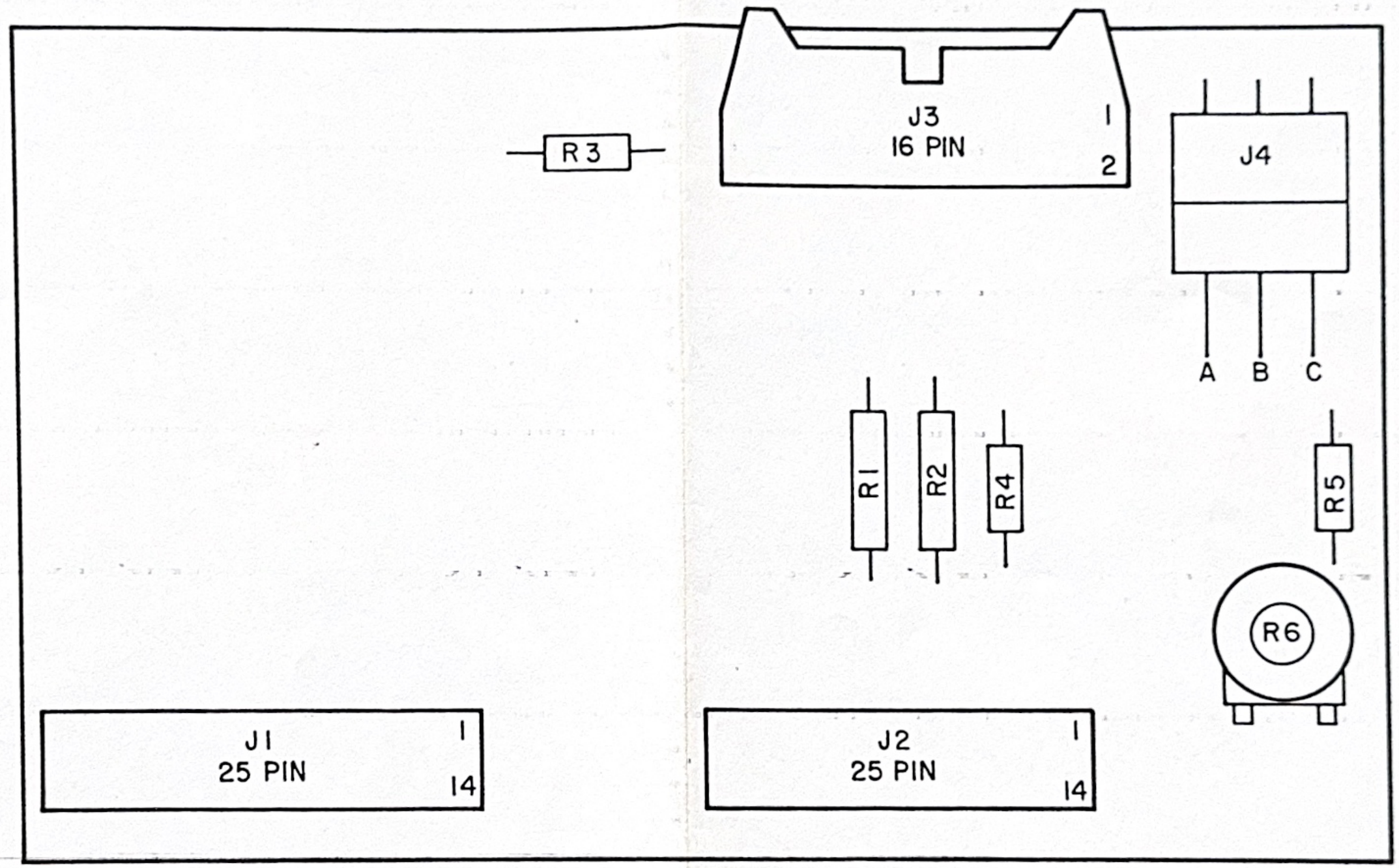
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REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	A	RELEASED	4·1·82	



RESISTORS

R1.....220 1/2 W
R2.....220 1/2 W
R3.....10K 1/4 W
R4.....10K 1/4 W
R5.....470K 1/4 W
R6.....500K VARIABLE

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
± .XX ± ±
.XXX ±

MATERIAL

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CONTRACT NO.

APPROVALS	DATE
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CHECKED GKX	10·12·81

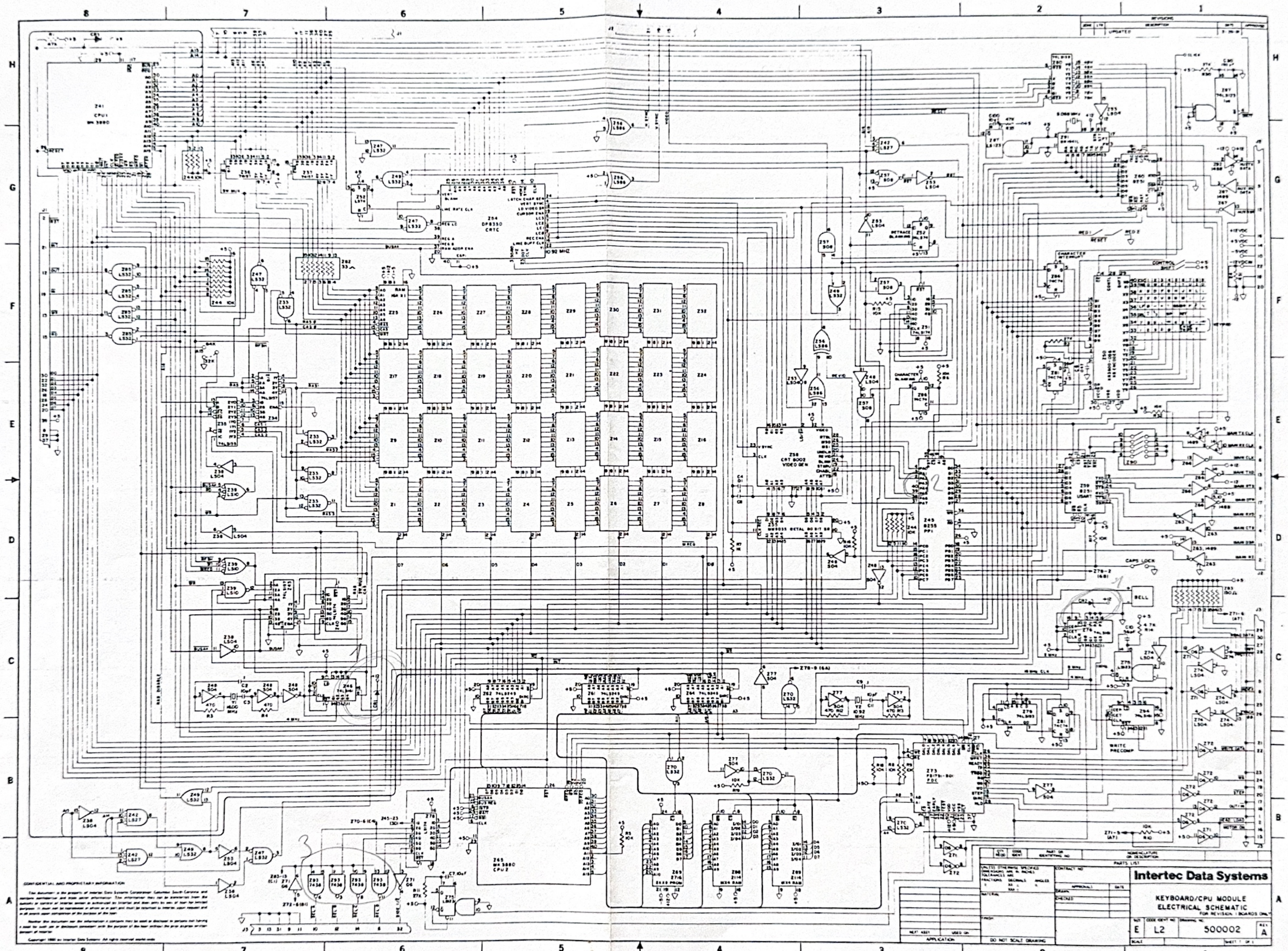
Intertec Data Systems

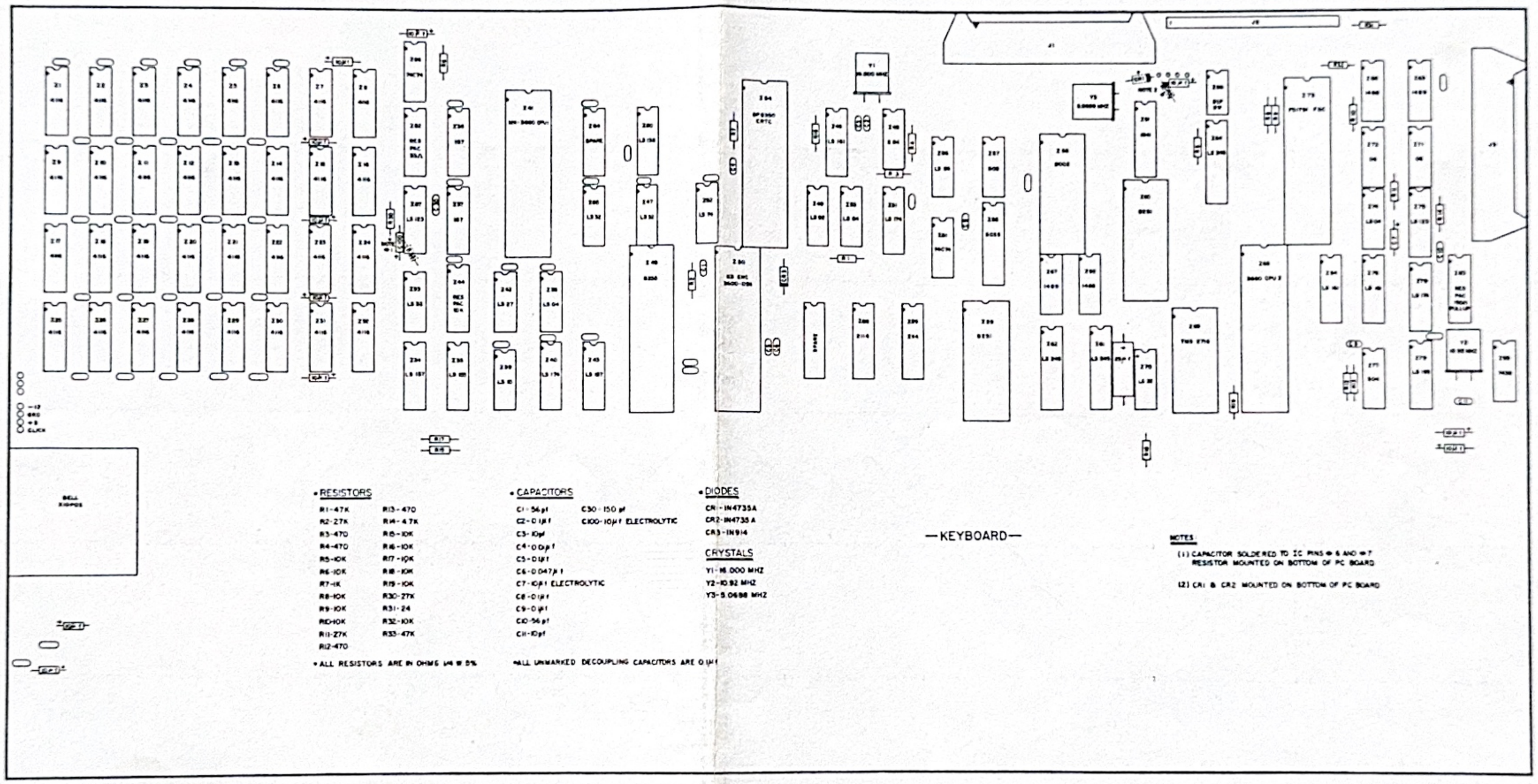
TRANSITION BOARD
ASSEMBLY DRAWING

SIZE	CODE IDENT NO.	DRAWING NO.
B		200017

SCALE —— SHEET 1 OF 1

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Z41 CPU1 MK 3880
Z54 DP8350 CRTC
Z58 CRT 8002 VIDEO GEN
Z65 MK 3880 CPU2
Z73 FD179x-B01 FDC
Intertec Data Systems
KEYBOARD/CPU MODULE
ELECTRICAL SCHEMATIC
FOR REVISION 1 BOARDS ONLY
E
L2
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—KEYBOARD—

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	A	RELEASED		

• RESISTORS

R1-47K	R13-470
R2-27K	R14-4.7K
R3-470	R15-10K
R4-470	R16-10K
R5-10K	R17-10K
R6-10K	R18-10K
R7-1K	R19-10K
R8-10K	R20-27K
R9-10K	R21-24
R10-10K	R22-10K
R11-27K	R23-47K
R12-470	

• ALL RESISTORS ARE IN OHMS 1/4 W 5%

• CAPACITORS

C1-56 pf	C20-150 pf
C2-0.1 µf	C100-10 µf ELECTROLYTIC
C3-10pf	
C4-0.0 µf	
C5-0.1 µf	
C6-0.047 µ f	
C7-10 µf ELECTROLYTIC	
C8-0.1 µf	
C9-0 µf	
C10-56 pf	
C11-10pf	

• ALL UNMARKED DECOUPLING CAPACITORS ARE 0.1 µf

• DIODES

CR1-IN4733A
CR2-IN4733A
CR3-IN914

CRYSTALS

Y1-16.000 MHZ
Y2-10.92 MHZ
Y3-5.0688 MHZ

NOTES

(1) CAPACITOR SOLDERED TO IC PINS 8 AND 7 RESISTOR MOUNTED ON BOTTOM OF PC BOARD

(2) CR1 & CR2 MOUNTED ON BOTTOM OF PC BOARD

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CONTRACT NO

APPROVALS	DATE
DRAWN SWH	5-20-82
RELEASED GAX	5-20-82

MATERIAL

FINISH

NEXT ASSY — USED ON

APPLICATION — DO NOT SCALE DRAWING

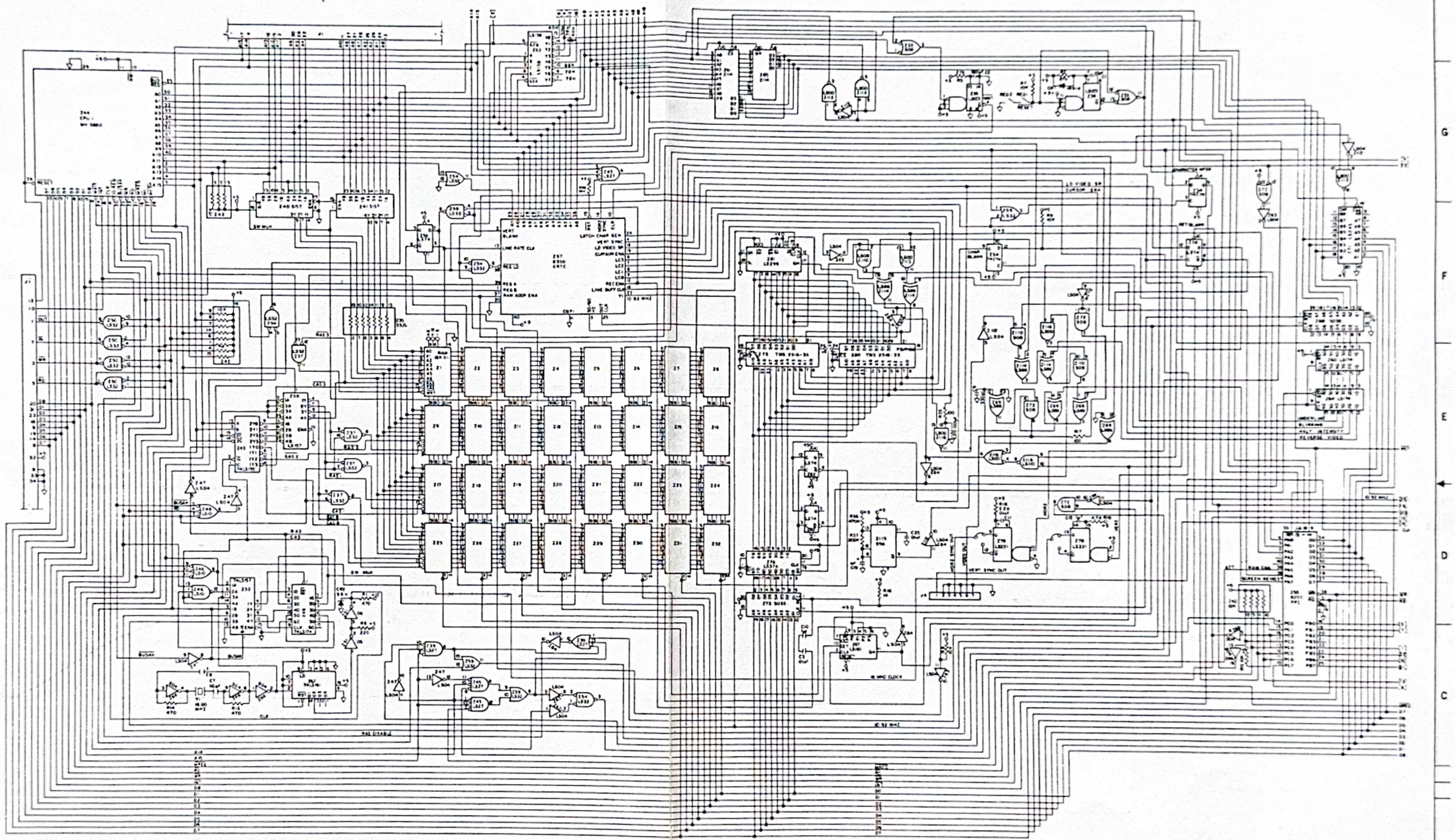
Intertec Data Systems

KEYBOARD / CPU MODULE ASSEMBLY DRAWING

REV A

SIZE E | CODE IDENT NO L2 | DRAWING NO 500037

SCALE DOUBLE | SHEET 1 OF 1



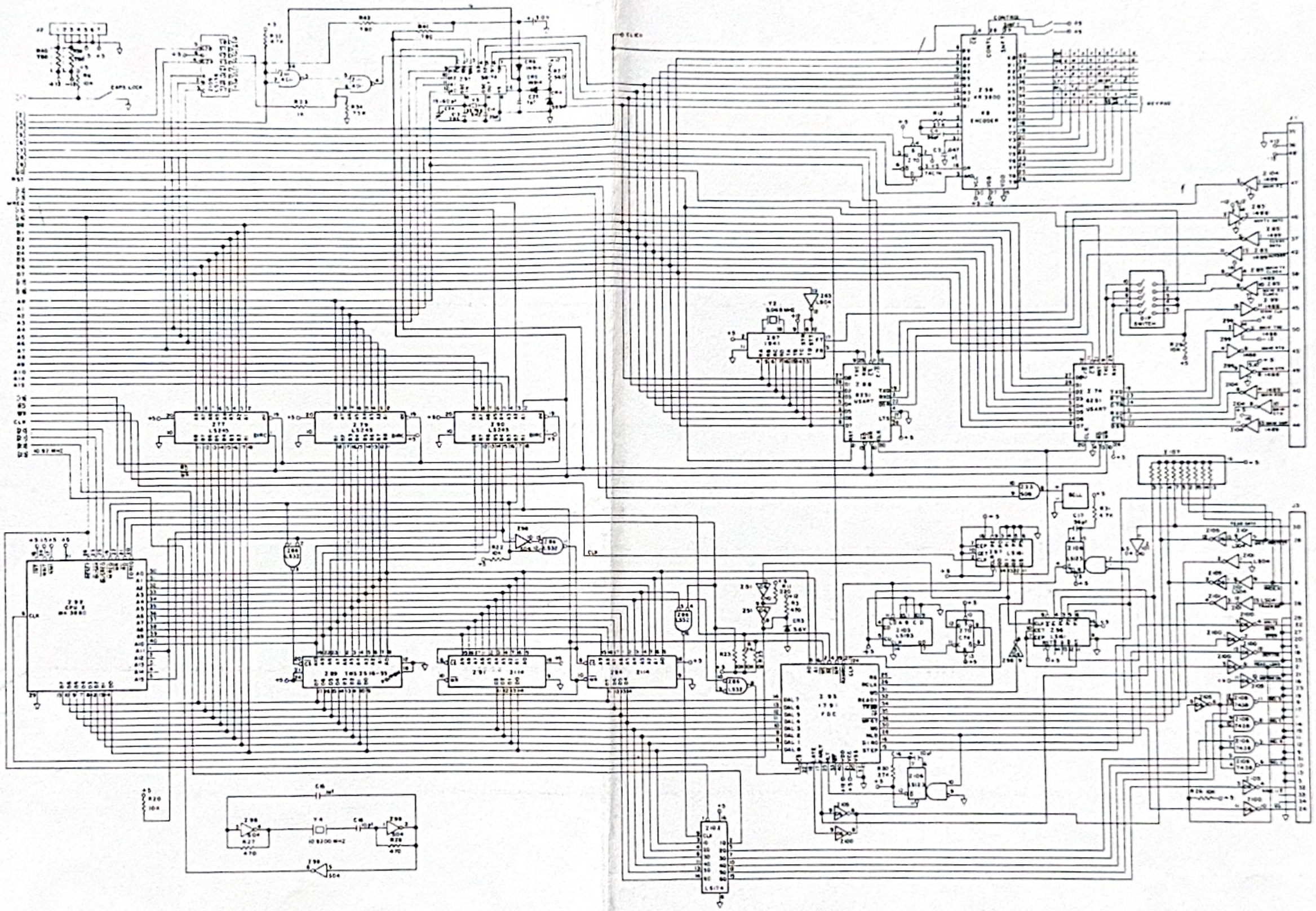
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			Intertec Data Systems
			KEYBOARD / CPU II SCHEMATIC
			E — 500030



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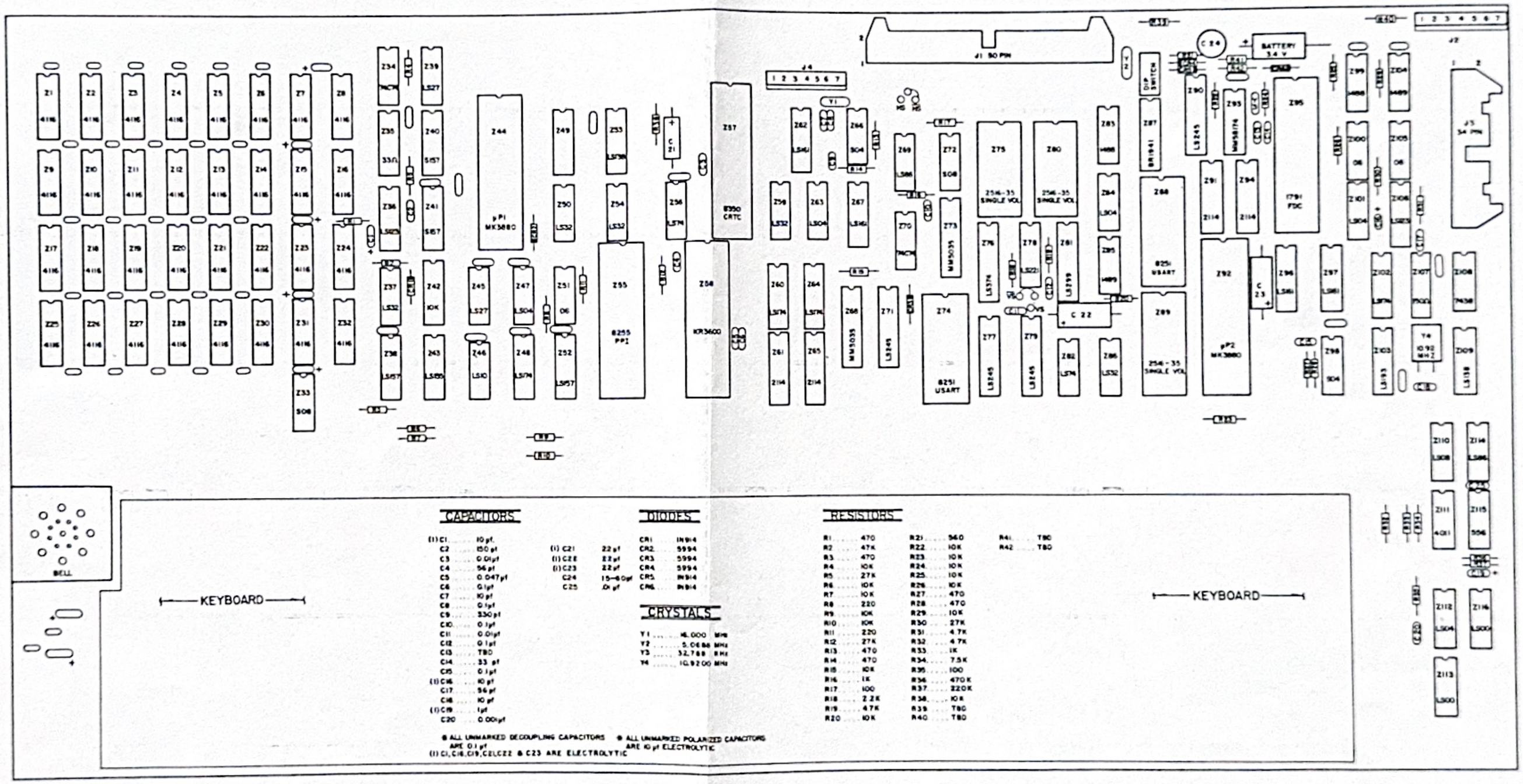
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Intertec Data Systems

KEYBOARD/CPU II
SCHEMATIC

500030



CAPACITORS

(1) C1	10 pf	(1) C21	22 pf		
C2	100 pf	(1) C22	22 pf		
C3	0.01 pf	(1) C23	22 pf		
C4	56 pf	C24	15–60 pf		
C5	0.047 pf	C25	.01 pf		
C6	0.1 pf				
C7	10 pf				
C8	0.1 pf				
C9	330 pf				
C10	0.1 pf				
C11	0.01 pf				
C12	0.1 pf				
C13	TBD				
C14	33 pf				
C15	0.1 pf				
(1) C16	10 pf				
C17	56 pf				
C18	10 pf				
(1) C19	1 pf				
C20	0.001 pf				

DIODES

CR1	IN914
CR2	5994
CR3	5994
CR4	5994
CR5	IN914
CR6	IN914

CRYSTALS

Y1	16.000 MHz
Y2	5.0688 MHz
Y3	32.768 KHz
Y4	10.92 00 MHz

RESISTORS

R1	470	R21	360	R41	TBD
R2	47K	R22	10K	R42	TBD
R3	470	R23	10K		
R4	10K	R24	10K		
R5	27K	R25	10K		
R6	10K	R26	10K		
R7	10K	R27	470		
R8	220	R28	470		
R9	10K	R29	10K		
R10	10K	R30	27K		
R11	220	R31	4.7K		
R12	27K	R32	4.7K		
R13	470	R33	1K		
R14	470	R34	7.5K		
R15	10K	R35	100		
R16	1K	R36	470K		
R17	100	R37	220K		
R18	2.2K	R38	10K		
R19	47K	R39	TBD		
R20	10K	R40	TBD		

* ALL UNMARKED DECOUPLING CAPACITORS ARE 0.1 pf
* ALL UNMARKED POLARIZED CAPACITORS ARE 10 pf ELECTROLYTIC
(1) C1, C16, C19, C21, C22 & C23 ARE ELECTROLYTIC

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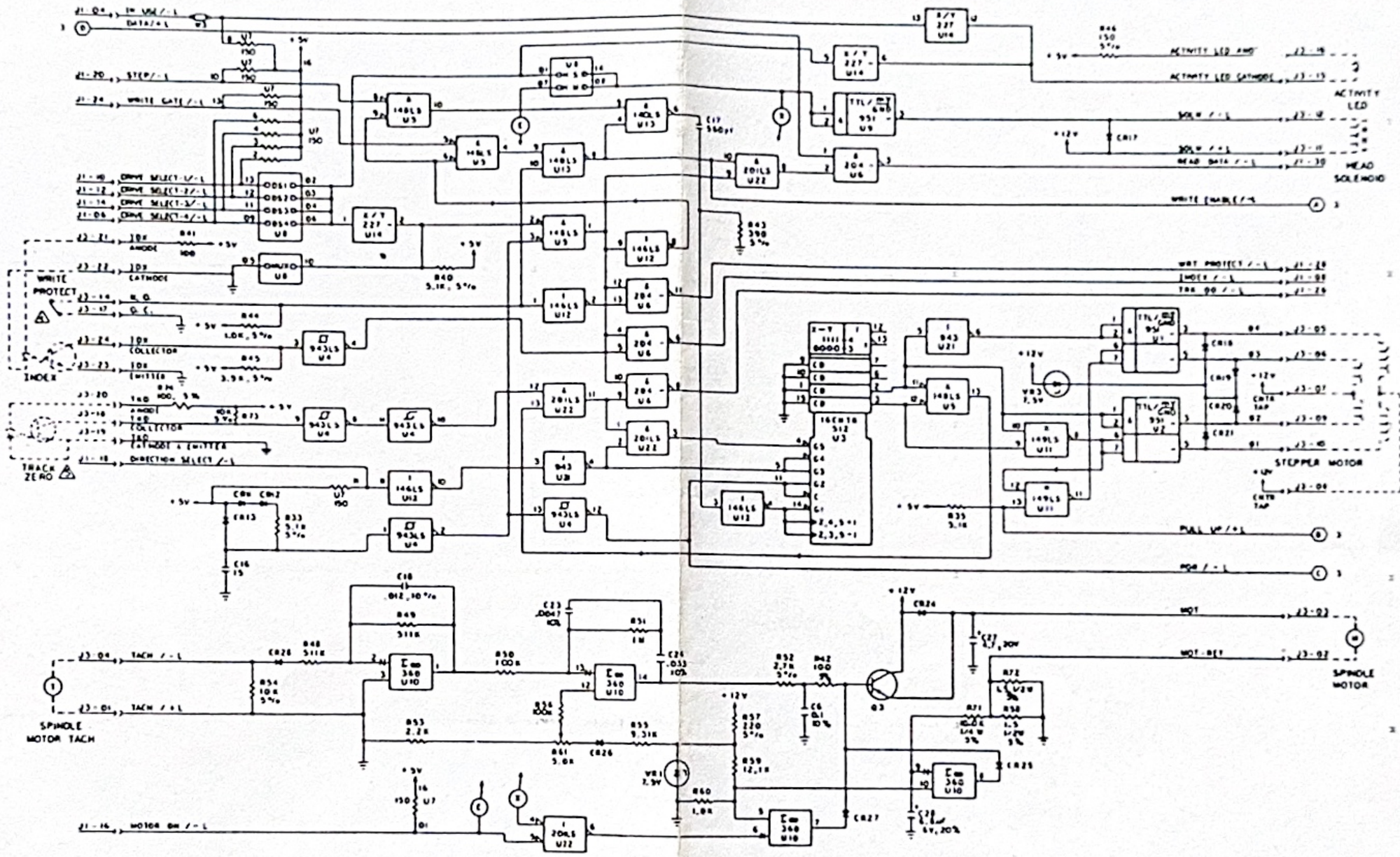
Intertec Data Systems

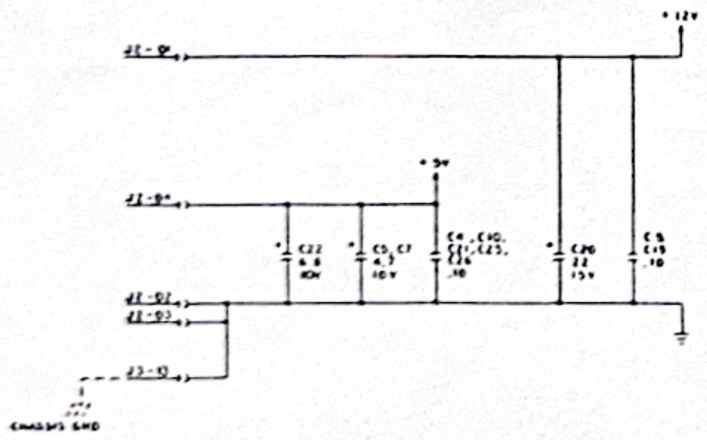
KEYBOARD/CPU II ASSEMBLY

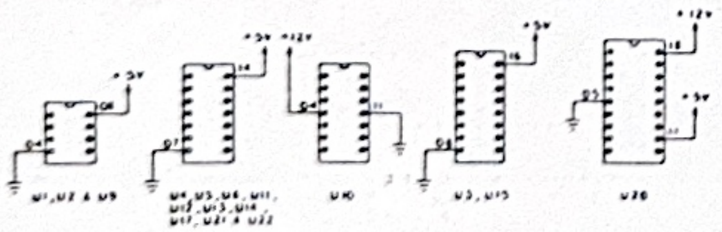
SIZE E | CODE IDENT NO L124 | DRAWING NO 500028

SCALE NTS | SHEET 1 OF 1

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED







NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
± .XX ± ±
.XXX ±

MATERIAL

FINISH

DO NOT SCALE DRAWING

CONTRACT NO.

APPROVALS	DATE
DRAWN	4-15-81
CHECKED	4-15-81

Intertec Data Systems

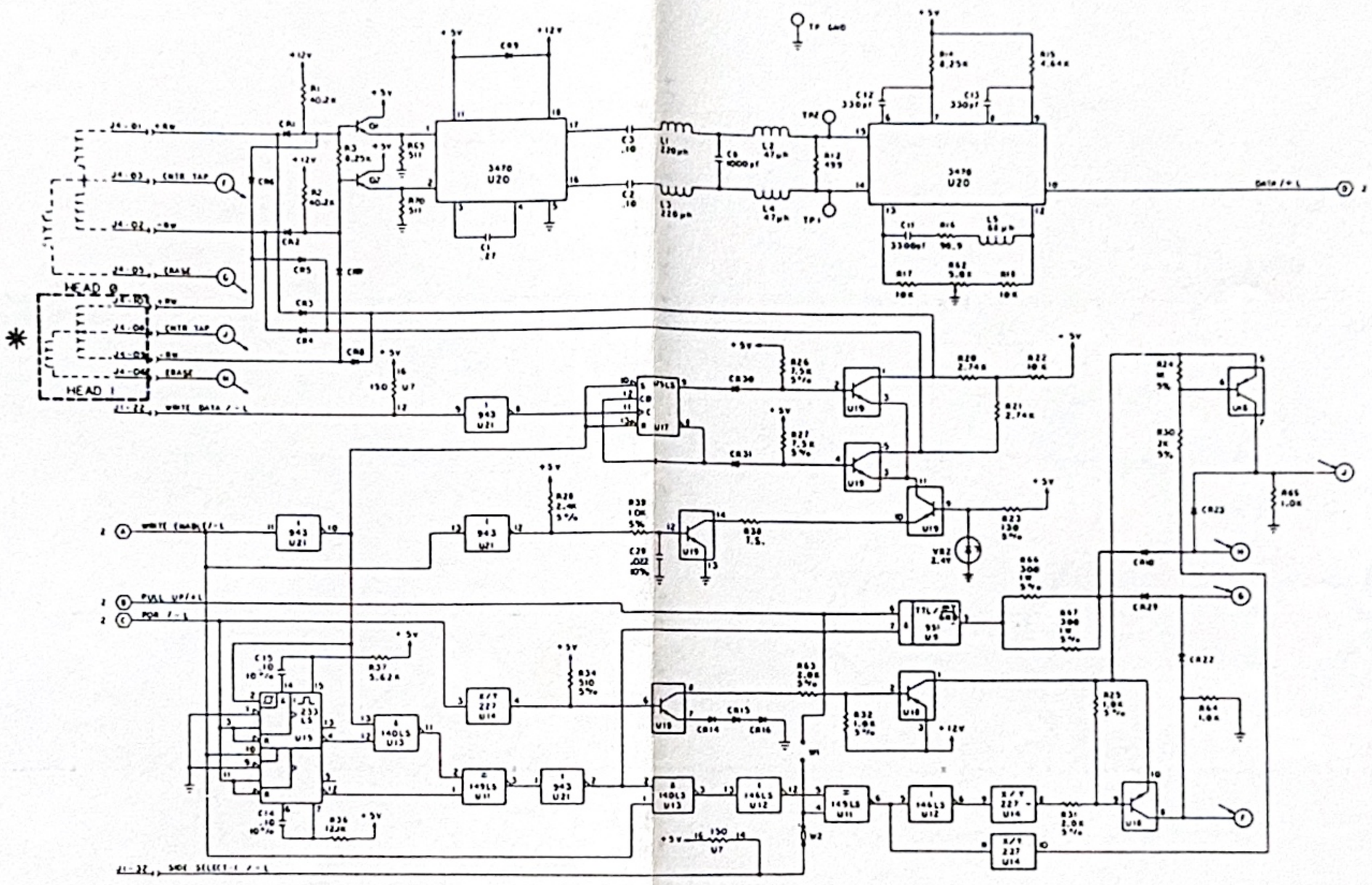
CDC-9408/9409
DISK DRIVE SCHEMATIC

SIZE	CODE IDENT NO.	DRAWING NO.
B	S 108	200029

SCALE —— SHEET 1 OF 2

BISHOP GRAPHICS/ACCUPRESS
REORDER NO. A-8027

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED



✱ USED ON SUPERBRAIN QD (9409) ONLY

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
± .XX ± ±
.XXX ±

MATERIAL

FINISH

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CONTRACT NO.

APPROVALS	DATE
DRAWN	4-15-81
CHECKED	4-15-81

Intertec Data Systems

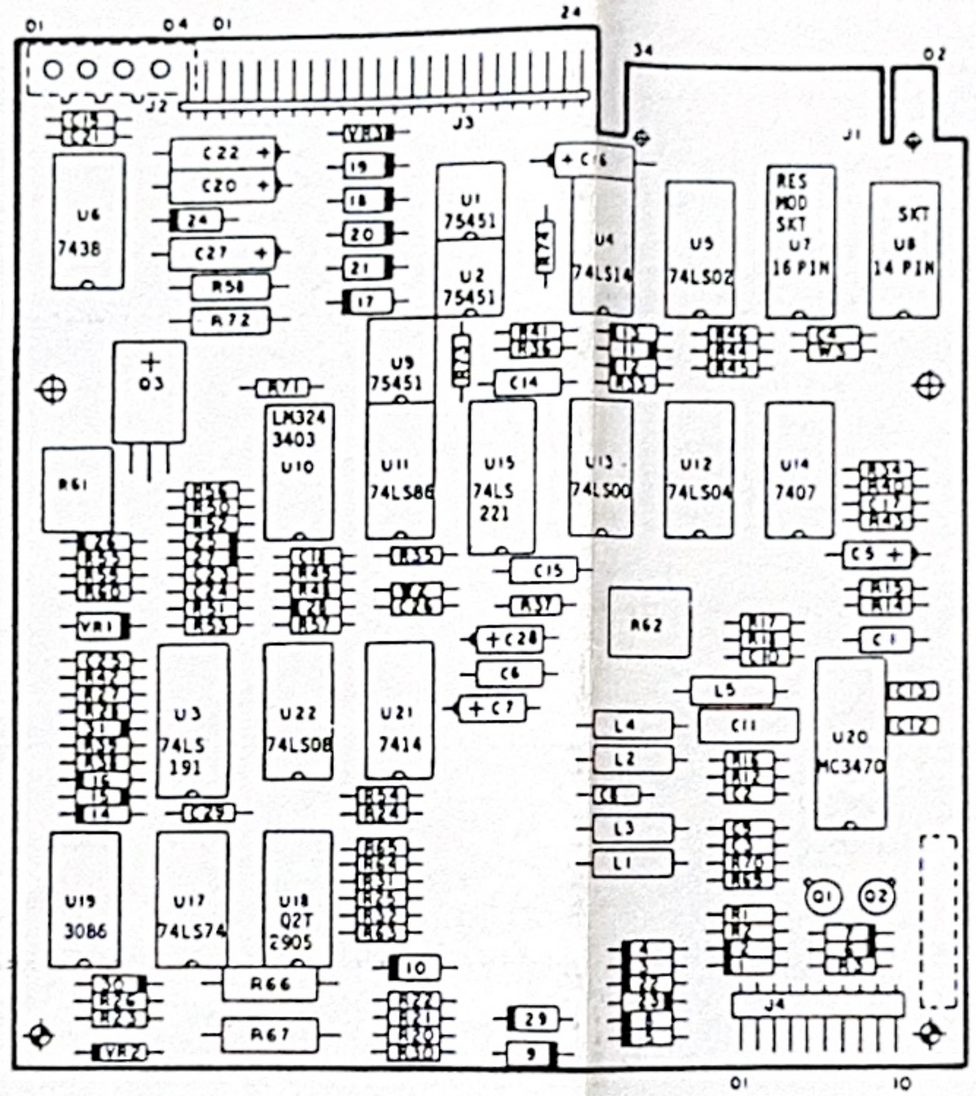
CDC-9408/9409
DISK DRIVE SCHEMATIC

SIZE	CODE IDENT NO.	DRAWING NO.
B	S108	200029

SCALE —— SHEET 2 OF 2

BISHOP GRAPHICS/ACCUPRESS REORDER NO. A-8027

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED



TRANSISTORS

Q1, Q2 - 2N2222
Q3 - T1P120

DIODES

CR1, CR2, CR3, CR4, CR5, CR6, CR7, CR8, CR11, CR12, CR13, CR14, CR15, CR16, CR18, CR19, CR20, CR22, CR23, CR25, CR26, CR27, CR28, CR30, CR31 } 1N914A

CR9, CR10, CR17, CR21, CR24, CR29 - 1N4001

VOLTAGE REGULATORS

VR1, VR3 - DIODE ZENER 7.5 V
VR2 - VOLT REG 5% 2.4 V

GG0924

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
± .XX ± ±
.XXX ±

MATERIAL

FINISH

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CONTRACT NO.

APPROVALS	DATE
DRAWN	4-15-81
CHECKED	4-15-81

Intertec Data Systems

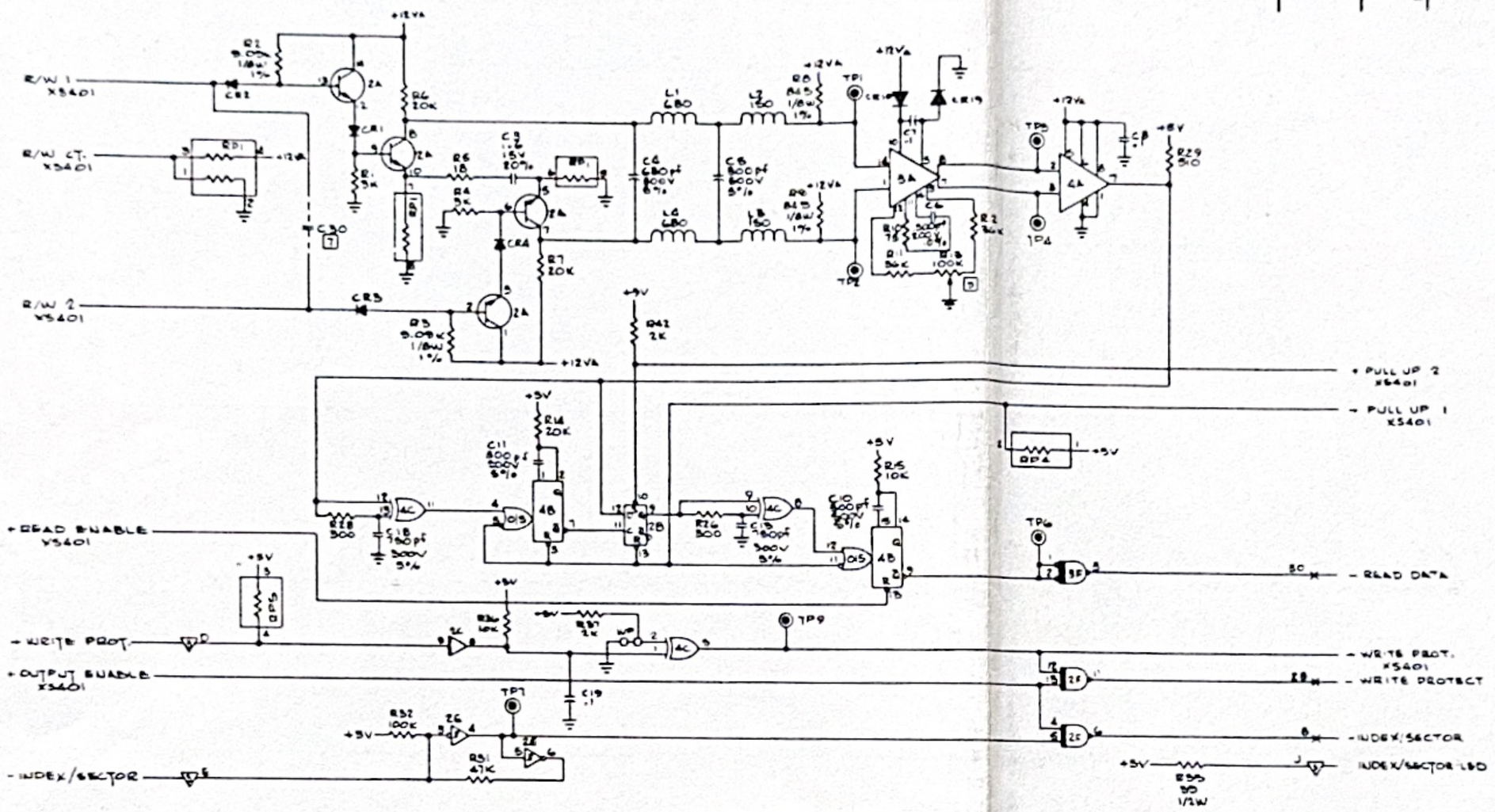
CDC-9408/9409
DISK DRIVE ASSEMBLY DRAWING

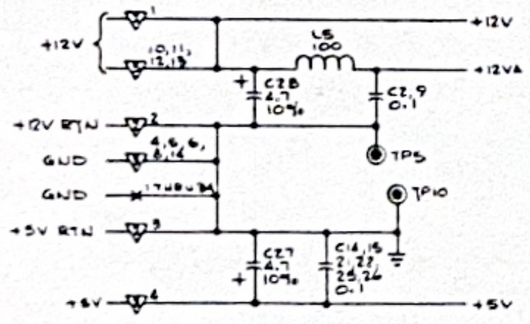
SIZE	CODE IDENT NO.	DRAWING NO.
B	S107	200030

SCALE ——— SHEET 1 OF 1

BISHOP GRAPHICS/ACCUPRESS

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED





RESISTOR ARRAY		
VALUE	POSITION	UNUSED
330Ω	RP2, 3	
680Ω	RP1	
150Ω	RP5	
1K	RP4	

TYPE	POS.	UNUSED	VCC (PIN)	GND (PIN)	VDD (PIN)	TYPE	POS.	UNUM'D	VCC (PIN)	GND (PIN)	VDD (PIN)
7400	9E		14	7	–	75453B	5F		8	4	–
7402	9B		14	7	–	LM311N	4A		–	1	8
74LS14	2E		14	7	–	4N6691A	3A		–	5	10
7407	10AD		14	7	–	7486	4C	4C3	14	7	–
7455	2D		14	7	–	9602	4B		16	8	–
7458	2F		14	7	–	2QT2222	2A		–	–	–
7474	2B,1D	1D1.6	14	7	–	2QT2906	1C		–	–	–
74LS5	5D		16	8	–	1902JL	1E	2	–	–	–
74LS221	9C		16	8	–	MM5837N	4F		–	–	–

REF DESIGNATION USED	REF DESIGNATION NOT USED
C31	C20,23,24
CR19	
L5	
Q7	
R42	
RP4	
TP9	

NOTES: UNLESS OTHERWISE SPECIFIED,

1. ALL CAPACITORS ARE IN MICROFARADS, 50V ±80 -20%.
2. ALL DIODES ARE 1N4148.
3. ALL INDUCTORS ARE IN MICROHENRIES, 10%.
4. ALL RESISTORS ARE IN OHMS, 1/4W, 5%.
5. DO INDICATES SHUNT SELECTABLE OPTIONS.
6. WIRE GAGES: ▽ INDICATES 22, ▽ INDICATES 26, ▽ INDICATES 24.

[1] COMPONENT NOT INSTALLED.
[2] PIN 4 OF ID 16 GROUND.
[3] R13 VALUE MAY BE 50K.

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN: INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
± .XX ± ±
.XXX ±

MATERIAL

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CONTRACT NO.

APPROVALS	DATE
DRAWN	6-5-81
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Intertec Data Systems

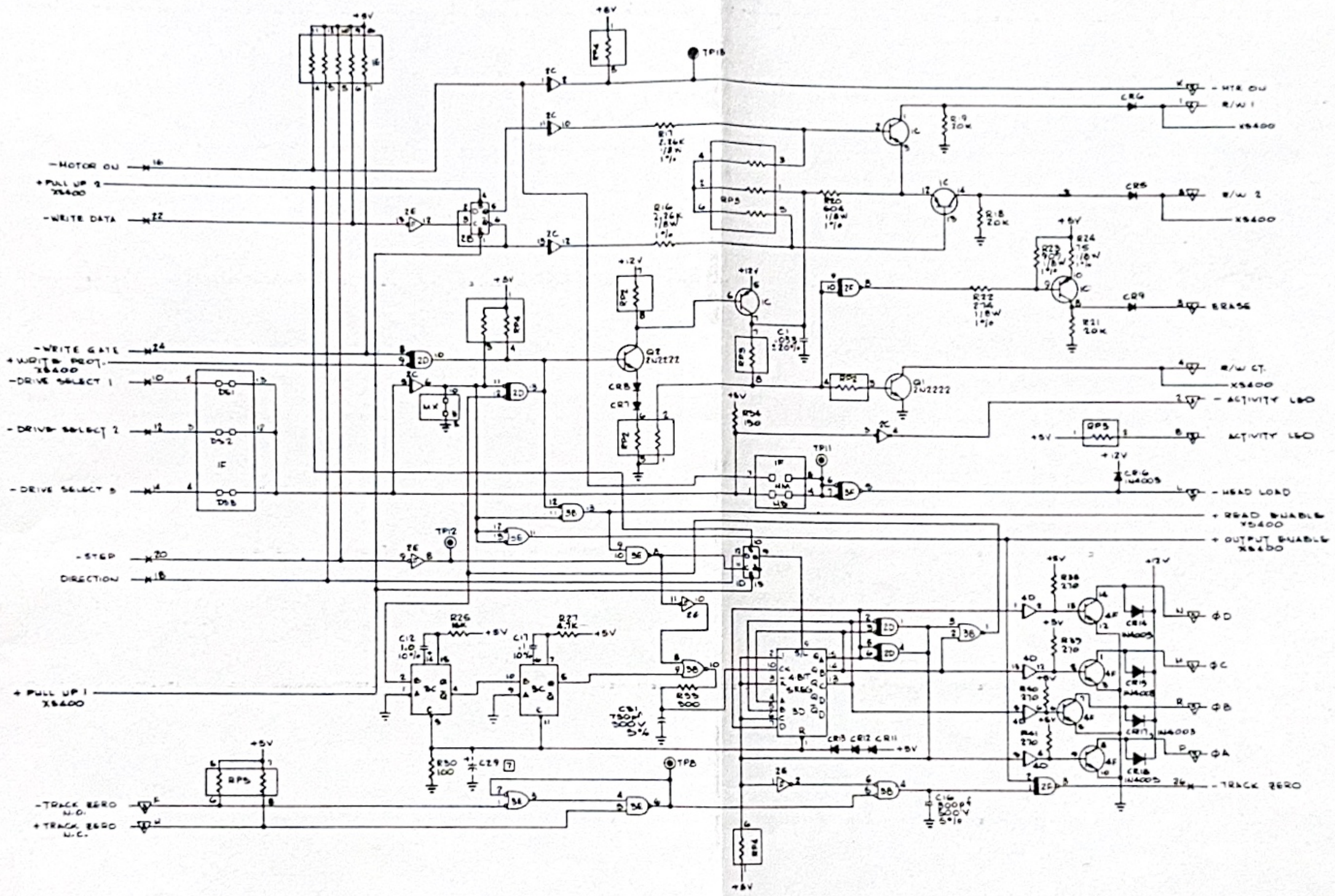
SA-400 DISK DRIVE

SIZE	CODE IDENT NO.	DRAWING NO.
B		200010

SCALE ——— | Issued: March, 1980 | SHEET 1 OF 2

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REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED



NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
± .XX ± ±
.XXX ±

MATERIAL

FINISH

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CONTRACT NO.

APPROVALS	DATE
DRAWN	6-5-81
CHECKED GKX	6-5-81

Intertec Data Systems

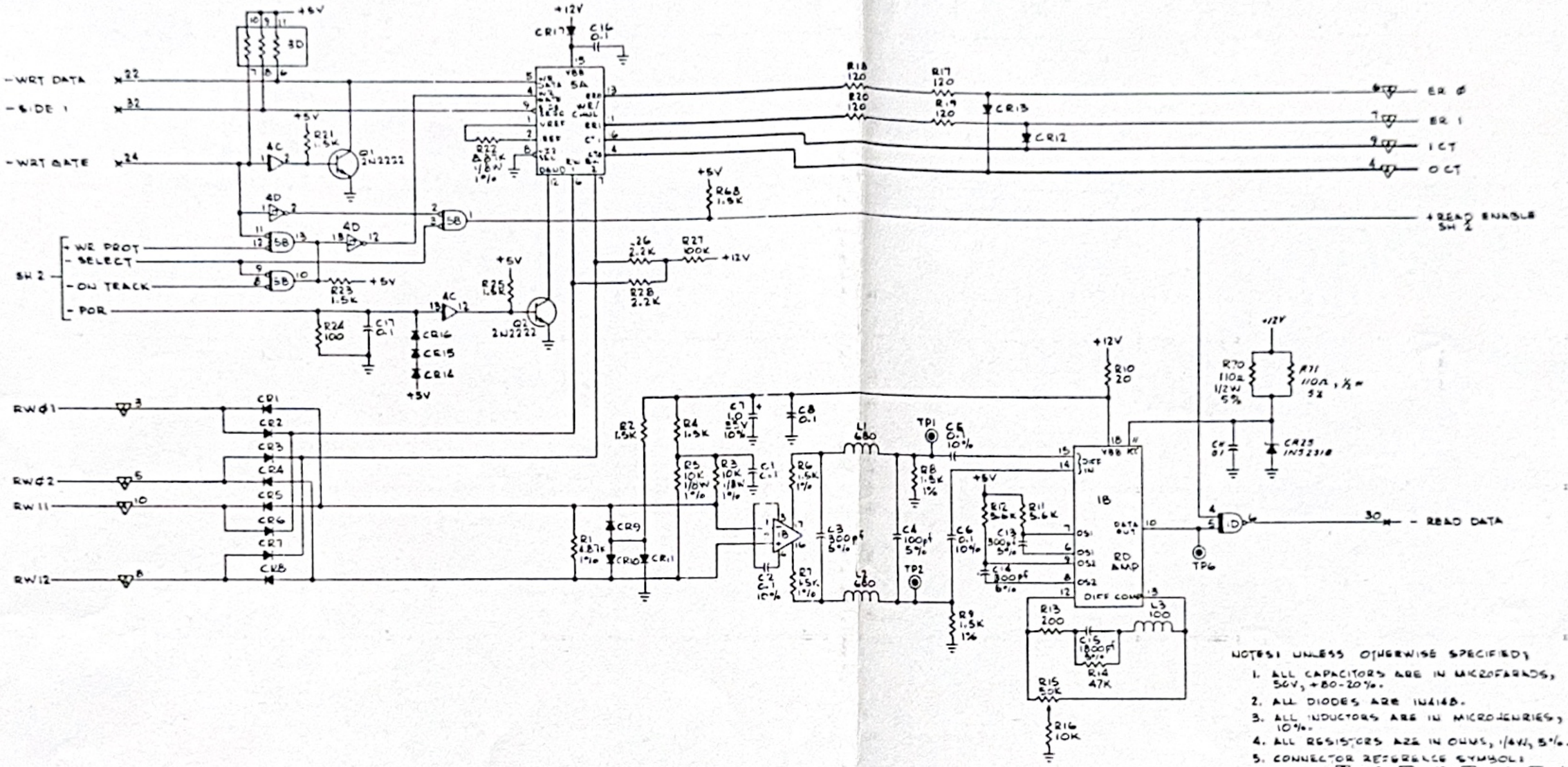
SA-400 DISK DRIVE

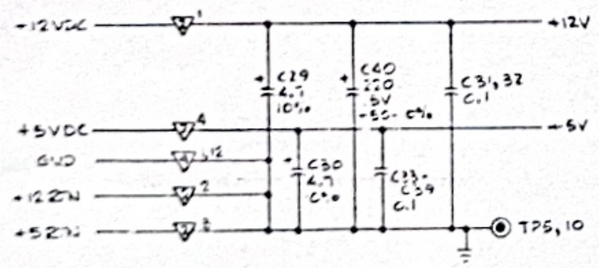
SIZE	CODE IDENT NO.	DRAWING NO.
B		200010

SCALE —— | Issued: March, 1980 | SHEET 2 OF 2

BISHOP GRAPHICS/ACCUPRESS REORDER NO. A-6027

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED





TYPE	POSITION	UNUSED EVENTS	+5V (PIN)	GND (PIN)
7407	4C		2	1
74LS74	4D		4	7
7432	5B		3	7
7400	5C		14	7
74LS38	6B		4	7
74LS139	5D		16	8
74LS191	5A		16	8
74LS32	6C		14	8
75326	6D		7	16
JACK (1)	6C		2	1
6312-0	6A		8	8
6268-1	7B		14	7
CAL (1)	3D		-	-
DP1(1)	6C		-	-
3214	4B	4B	12	7

REFERENCE DES SHAT OMD	
ASS'Y USED	NOT USED
C2D	C9, C10, C12
CR23	
L3	
Q4	
R71	
TP3	TP3, TP4

NOTES: UNLESS OTHERWISE SPECIFIED;
1. ALL CAPACITORS ARE IN MICROFARADS, 50V, +80-20%.
2. ALL DIODES ARE 1N4148.
3. ALL INDUCTORS ARE IN MICROHENRIES, 10%.
4. ALL RESISTORS ARE IN OHMS, 1/4W, 5%.
5. CONNECTOR REFERENCE SYMBOLS: ⏚ = J1; ⏚ = J2; ⏚ = J3; ⏚ = J4; ⏚ = J5.
6. —o—o— INDICATES CUT TRACE OPTION.
7. ⊡ INDICATES SHUNT BLOCK OPTION

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
± .XX ± ±
.XXX ±

MATERIAL

FINISH

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CONTRACT NO.

APPROVALS	DATE
DRAWN	6-5-81
CHECKED GKX	6-5-81

Intertec Data Systems

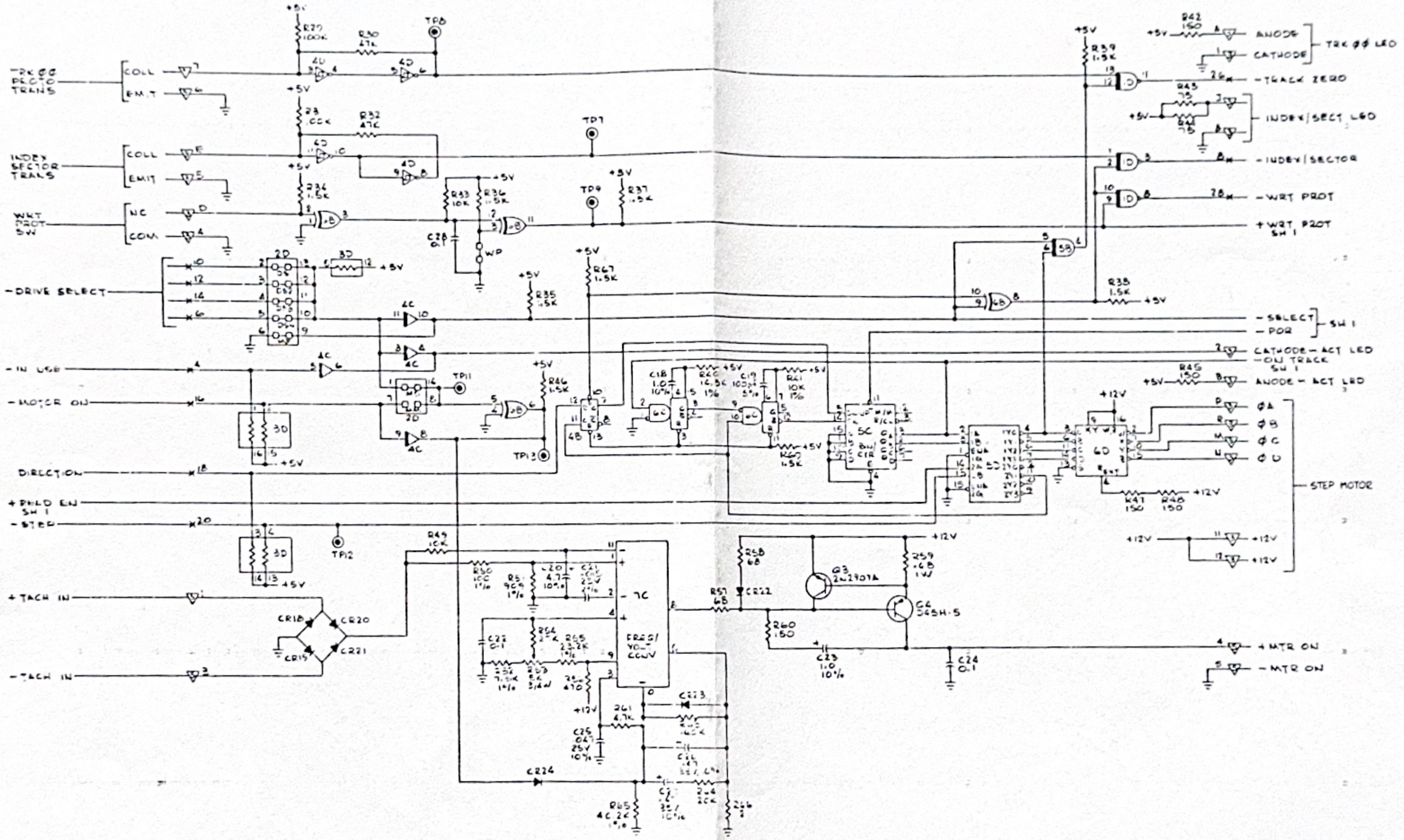
SA-450 DISK DRIVE

SIZE	CODE IDENT NO.	DRAWING NO.
B		200011

SCALE —— | Issued: March, 1980 | SHEET 1 OF 2

BISHOP GRAPHICS/ACCUPRESS REORDER NO. A-8027

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED



NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
± .XX ± ±
.XXX ±

MATERIAL

FINISH

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CONTRACT NO.

APPROVALS	DATE
DRAWN	6-5-81
CHECKED GKX	6-5-81

Intertec Data Systems

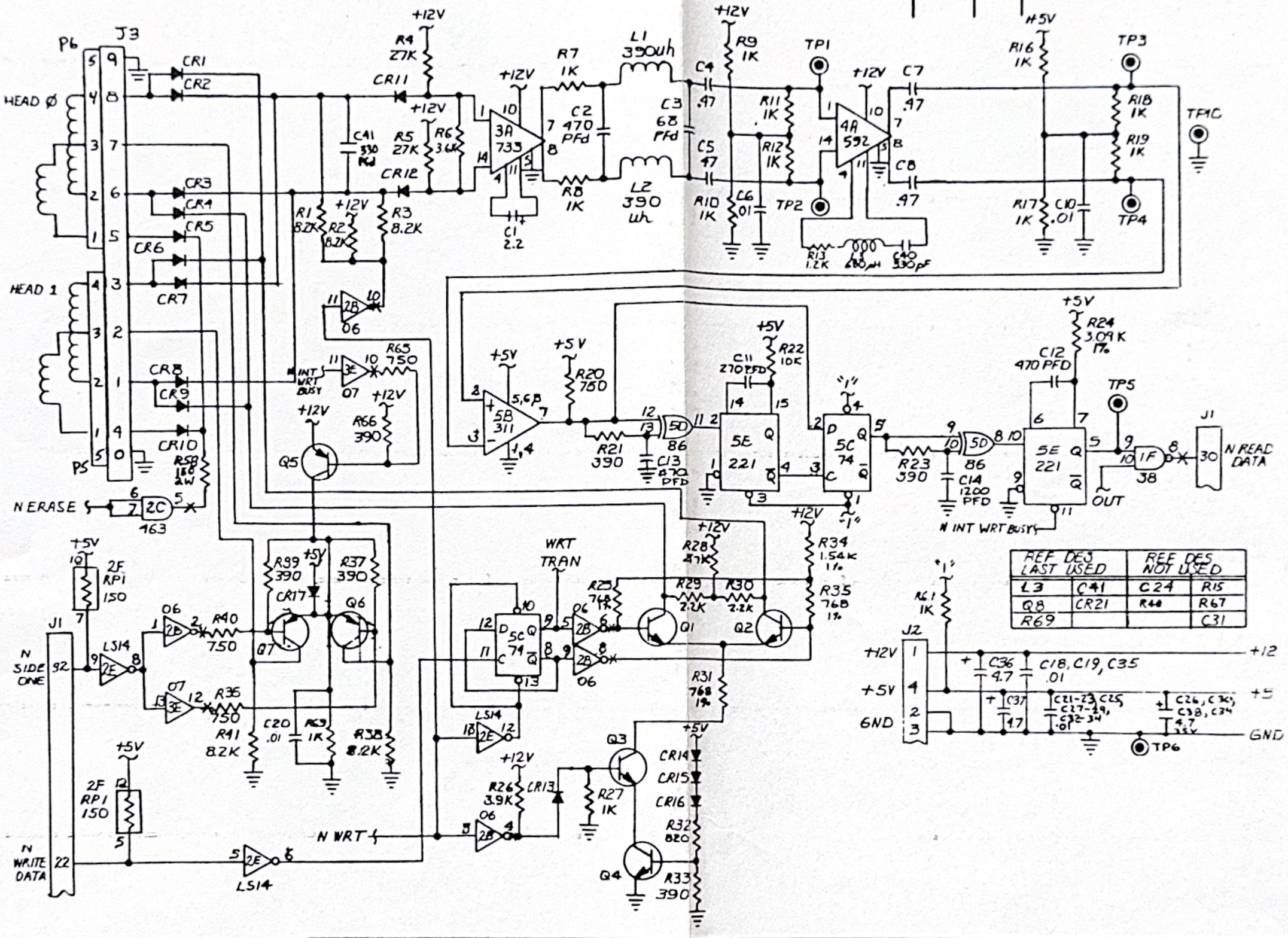
SA-450 DISK DRIVE

SIZE	CODE IDENT NO.	DRAWING NO.
B		200011

SCALE ——— | Issued: March, 1980 | SHEET 2 OF 2

BISHOP GRAPHICS/ACCUPRESS REORDER NO. A-9027

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED



REF DES LAST USED		REF DES NOT USED	
L3	C41	C24	R15
Q8	CR21	R40	R67
R69			C31

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS ± DECIMALS .XX ± .XXX ± ANGLES ±

MATERIAL

FINISH

DO NOT SCALE DRAWING

CONTRACT NO.

APPROVALS	DATE
DRAWN	6-5-81
CHECKED GKX	6-5-81

Intertec Data Systems

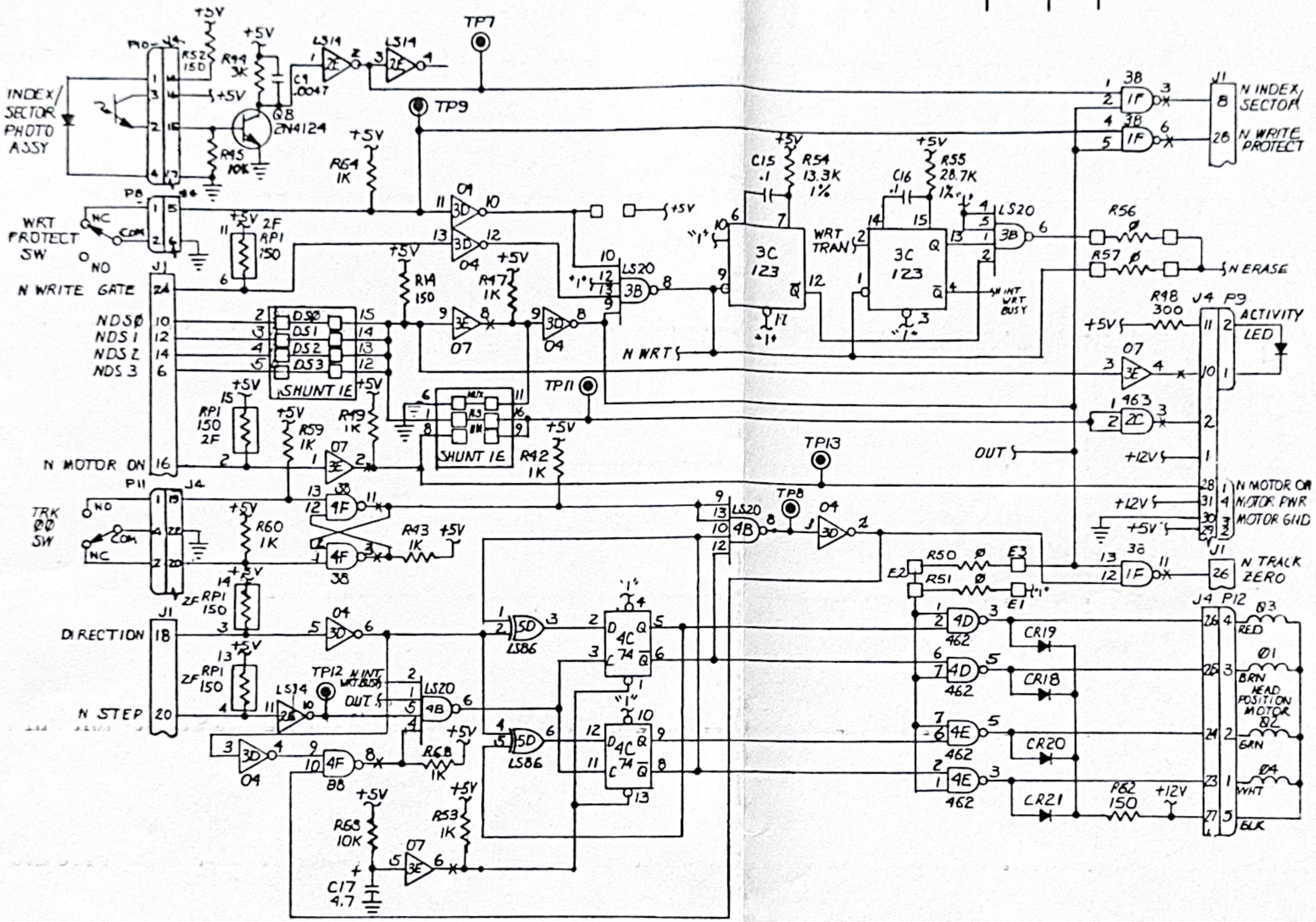
TANDON MAGNETICS
DISK DRIVE LOGIC SCHEMATIC

SIZE	CODE IDENT NO.	DRAWING NO.
B	S93	200033

SCALE —— SHEET 1 OF 2

BISHOP GRAPHICS/ACCUPRESS
REORDER NO. A-8027

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED



4. ALL TRANSISTORS NPN ARE 2N4124 & PNP ARE 2N4125
3. ALL DIODES ARE IN4446
2. ALL CAPS ARE IN UFD
1. ALL RESISTORS ARE IN OHMS, 1/4W, 5%

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
± .XX ± ±
.XXX ±

MATERIAL

FINISH

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CONTRACT NO.

APPROVALS	DATE
DRAWN	6-5-81
CHECKED GKX	6-5-81

Intertec Data Systems

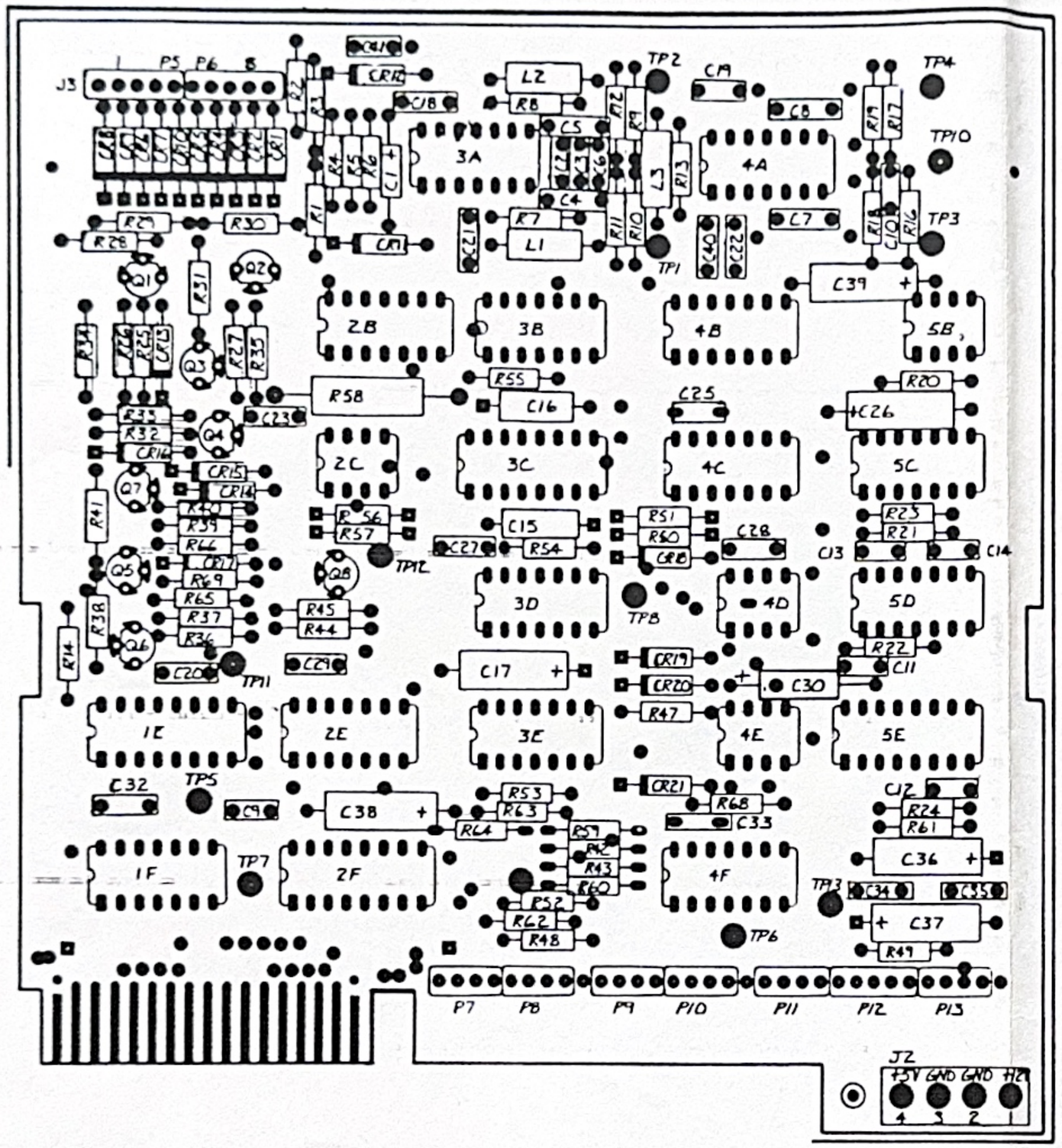
TANDON MAGNETICS
DISK DRIVE LOGIC SCHEMATIC

SIZE	CODE IDENT NO.	DRAWING NO.
B	S 93	200033

SCALE ——— SHEET 2 OF 2

BISHOP GRAPHICS/ACCUPRESS REORDER NO. A-8027

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED



1. COMPONENT HEIGHT NOT TO EXCEED .35 ABOVE P.C. BOARD.

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
± .XX ± ±
.XXX ±

MATERIAL

FINISH

DO NOT SCALE DRAWING

CONTRACT NO.

APPROVALS	DATE
DRAWN	6-5-81
CHECKED GKX	6-5-81

Intertec Data Systems

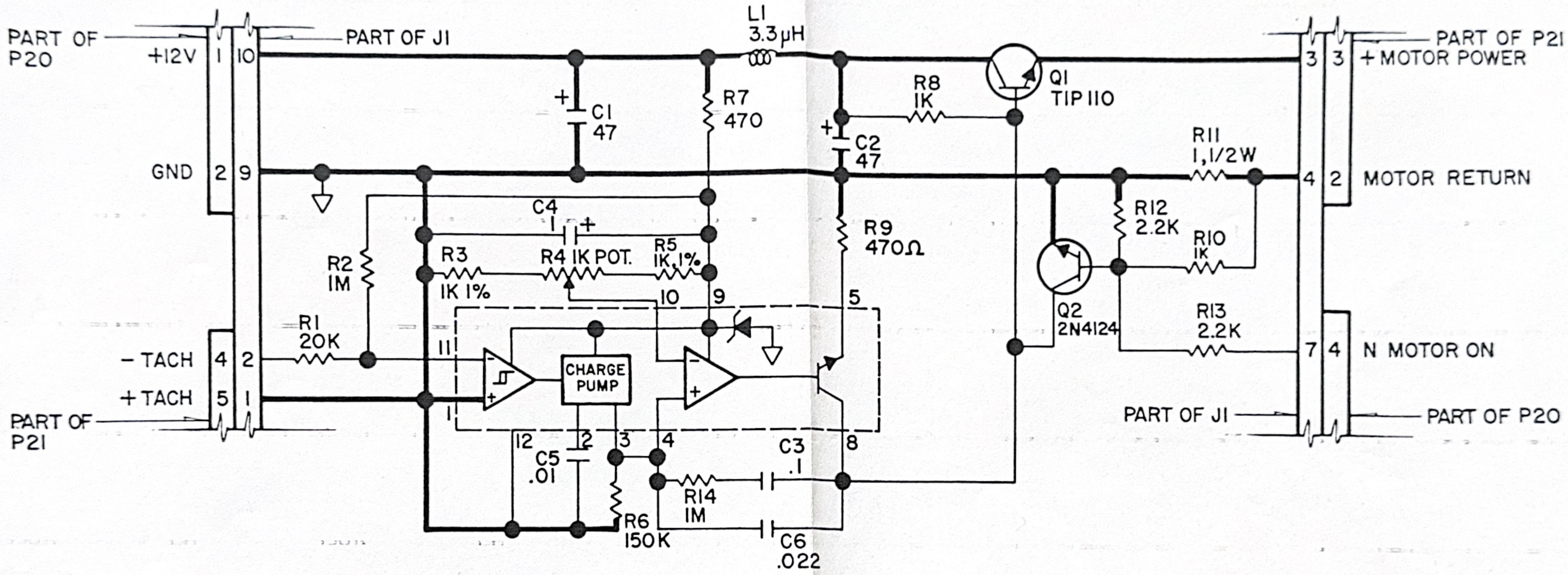
TANDON MAGNETICS
LOGIC PCB DRAWING

SIZE	CODE IDENT NO.	DRAWING NO.
B	S 92	200034

SCALE ——— SHEET | OF |

BISHOP GRAPHICS/ACCUPRESS
REORDER NO. A-8027

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED



3. CAPACITORS ARE IN µf, ± 20%, 35 V.
2. 1% RESISTORS ARE 1/8 W.
1. RESISTORS ARE IN OHMS, ±5%, 1/4W.

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
± .XX ± ±
.XXX ±

MATERIAL

FINISH

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CONTRACT NO.

APPROVALS	DATE
DRAWN SWH	6-5-81
CHECKED GNL	6-5-81

Intertec Data Systems

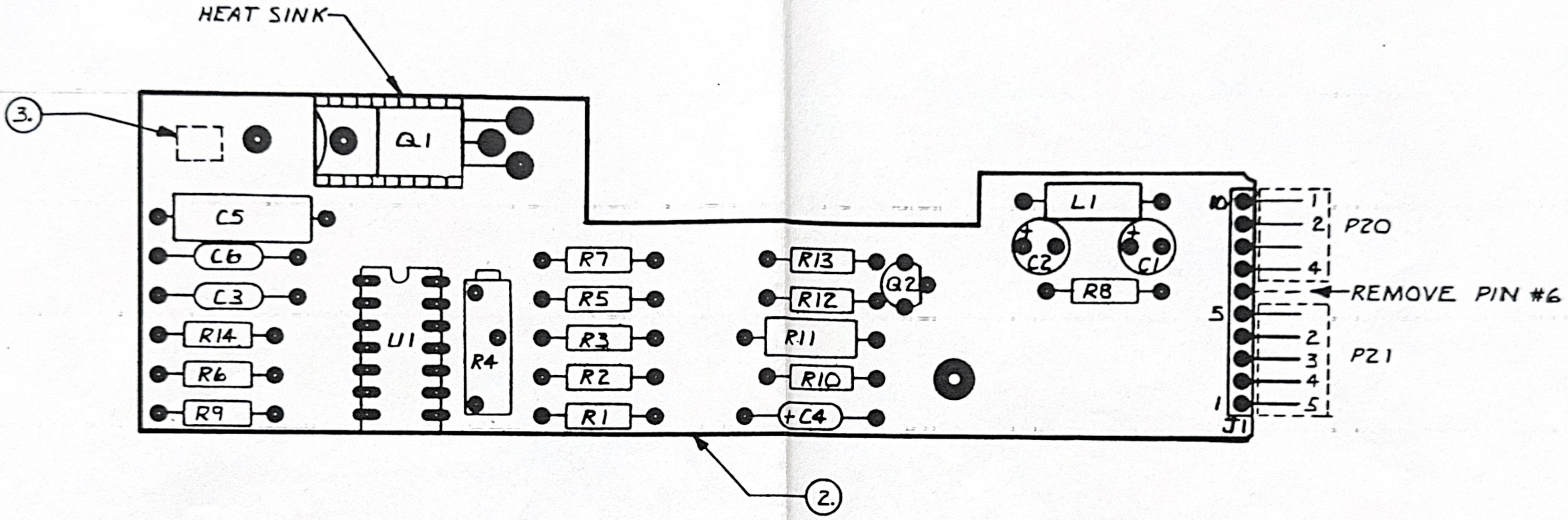
TANDON MAGNETICS
LINEAR SERVO SCHEMATIC

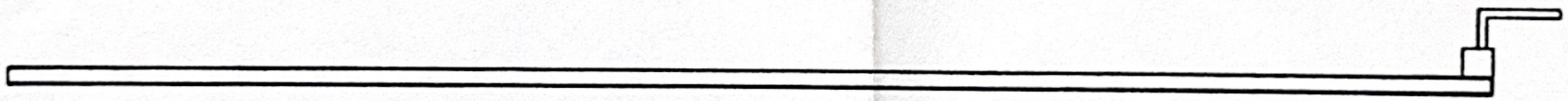
SIZE	CODE IDENT NO.	DRAWING NO.
B	S 125	200031

SCALE —— SHEET 1 OF 1

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REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED





NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS ± .XX ± .XXX ± DECIMALS ± ANGLES ±

MATERIAL

FINISH

DO NOT SCALE DRAWING

CONTRACT NO.

APPROVALS	DATE
DRAWN	6-5-81
CHECKED GKX	6-5-81

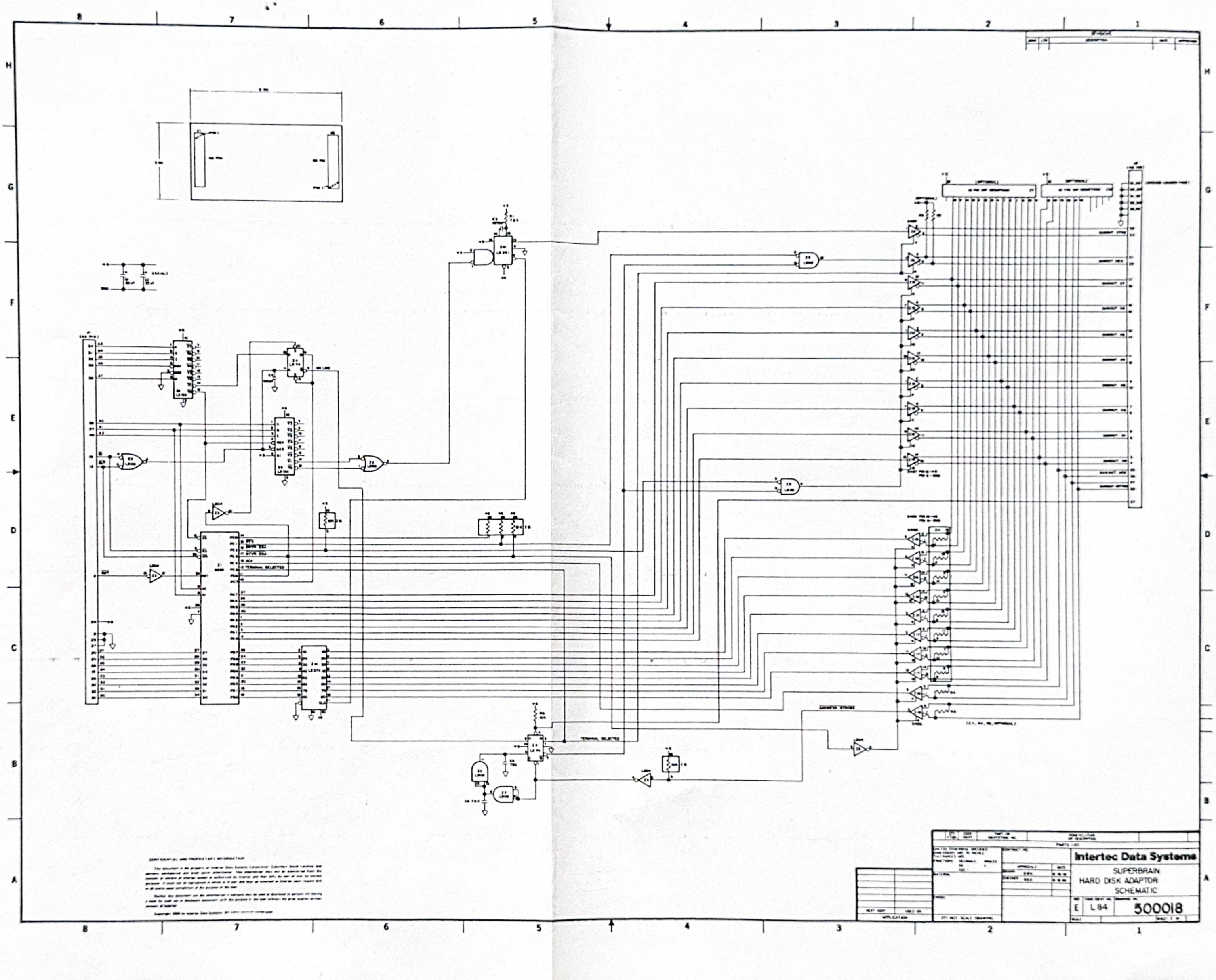
Intertec Data Systems

TANDON MAGNETICS
LINEAR SERVO PCB DRAWING

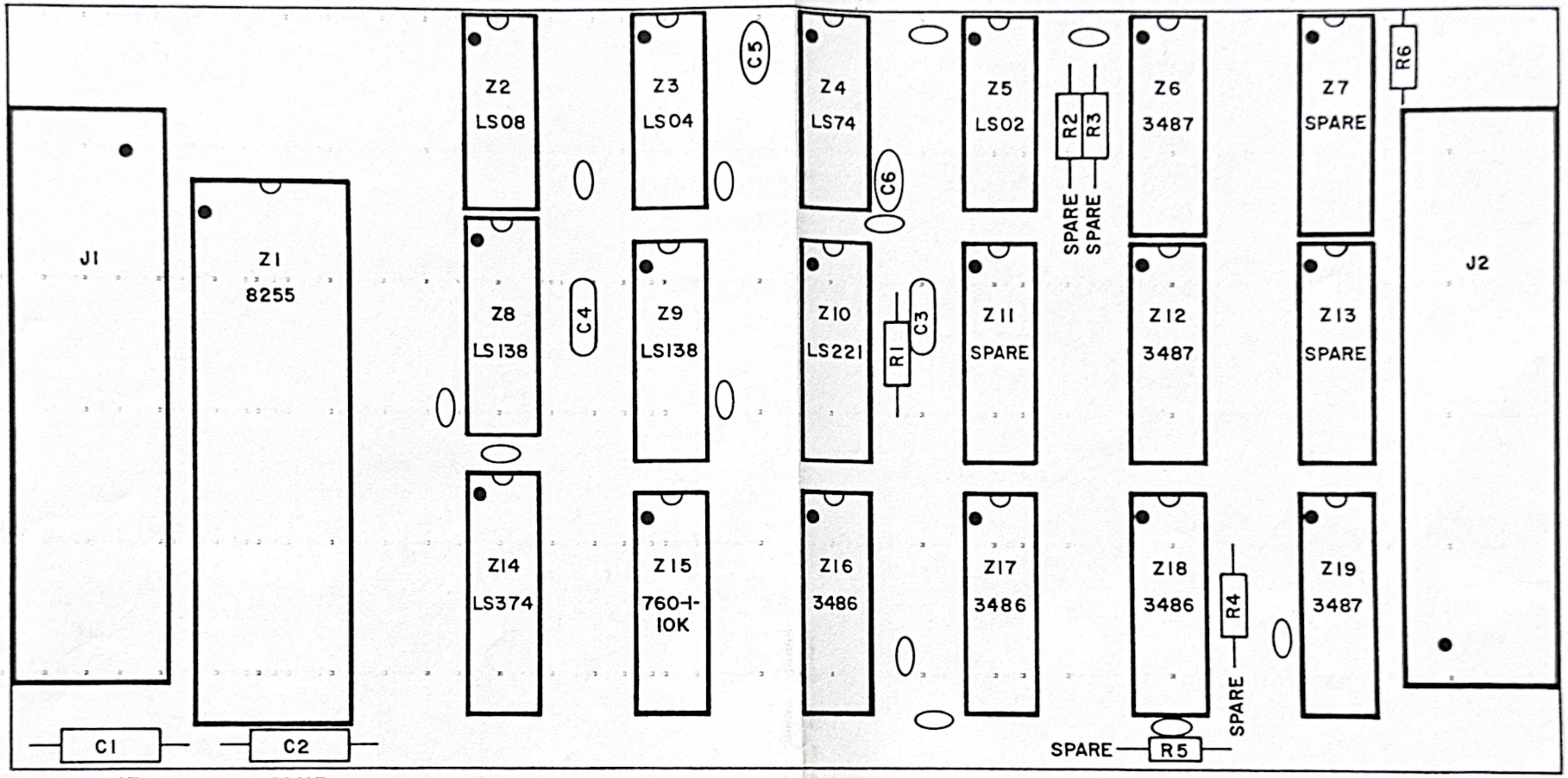
SIZE	CODE IDENT NO.	DRAWING NO.
B	S90	200032

SCALE ——— SHEET 1 OF 1

BISHOP GRAPHICS/ACCUPRESS REORDER NO. A-6027


Intertec Data Systems
SUPERBRAIN
HARD DISK ADAPTOR
SCHEMATIC
E
L84
500018

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED



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APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
± .XX ± ±
.XXX ±

MATERIAL

FINISH

DO NOT SCALE DRAWING

CONTRACT NO.

APPROVALS	DATE
DRAWN SWH	6-18-81
CHECKED GNL	6-18-81

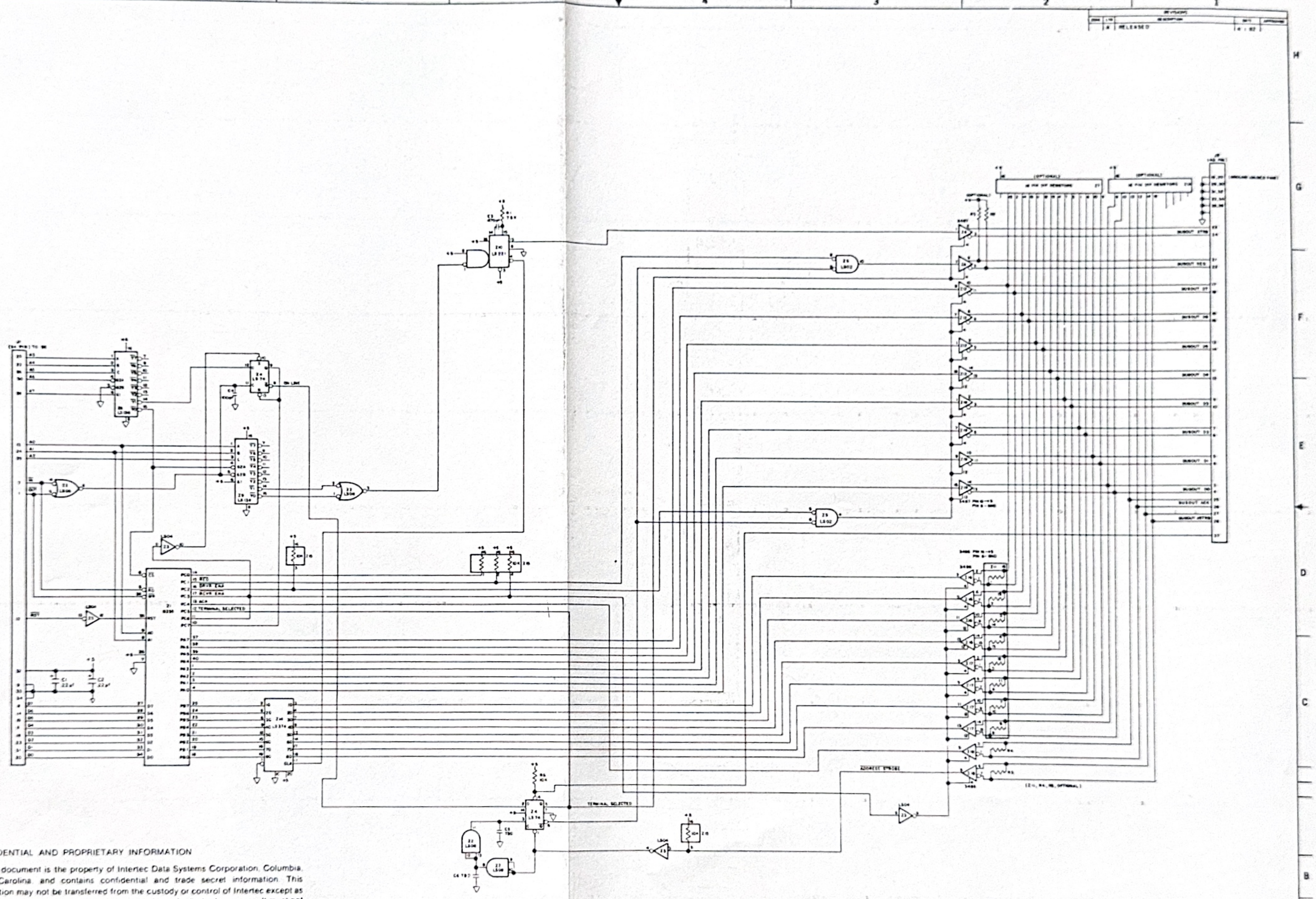
Intertec Data Systems

SUPERBRAIN HARD DISK ADAPTOR
ASSEMBLY DRAWING

SIZE	CODE IDENT NO.	DRAWING NO.
B	S9	200020

SCALE NTS | SHEET 1 OF 1

BISHOP GRAPHICS/ACCUPRESS
REORDER NO. A-8027



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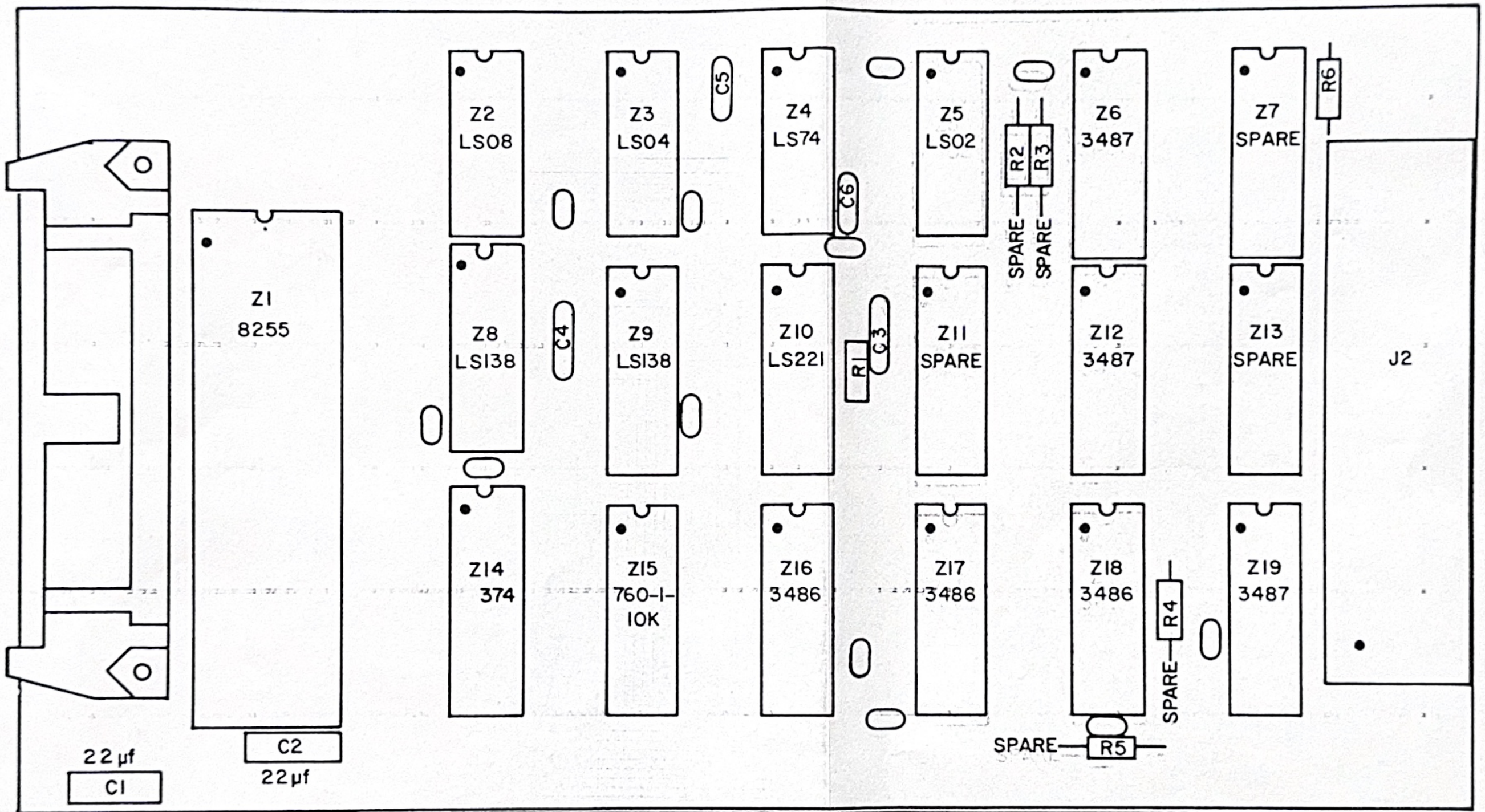
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Intertec Data Systems

SUPERBRAIN II
HARD DISK ADAPTOR CABLE
SCHEMATIC

E | L84 | 500048

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	A	RELEASED		
	B	REDRAWN PER RECORD COPY	3-11-82	MX



CAPACITORS

C1	22 µf
C2	22 µf
C3	470 pf
C4	100 pf
C5	TBD
C6	TBD

RESISTORS

R1	7.5 K
R6	10 K

NOTE:
ALL UNMARKED
DECOUPLING CAPACITORS
0.1 µf.

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NEXT ASSY	USED ON
APPLICATION	

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TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
± .XX ± ±
.XXX ±

MATERIAL

FINISH

DO NOT SCALE DRAWING

CONTRACT NO.

APPROVALS	DATE
DRAWN MTR	3-11-82
CHECKED	

Intertec Data Systems

SUPERBRAIN HARD DISK ADAPTOR
ASSEMBLY DRAWING
MODULE II

SIZE	CODE IDENT NO.	DRAWING NO.
B		200047

SCALE | SHEET 1 OF 1

BISHOP GRAPHICS/ACCUPRESS
REORDER NO. A16690