

USED ON ASSEMBLY	PART NO
25002-7	25000-1
25003-7	
25004-7	
25005-7	
25006-7	
25007-7	

D

D

C

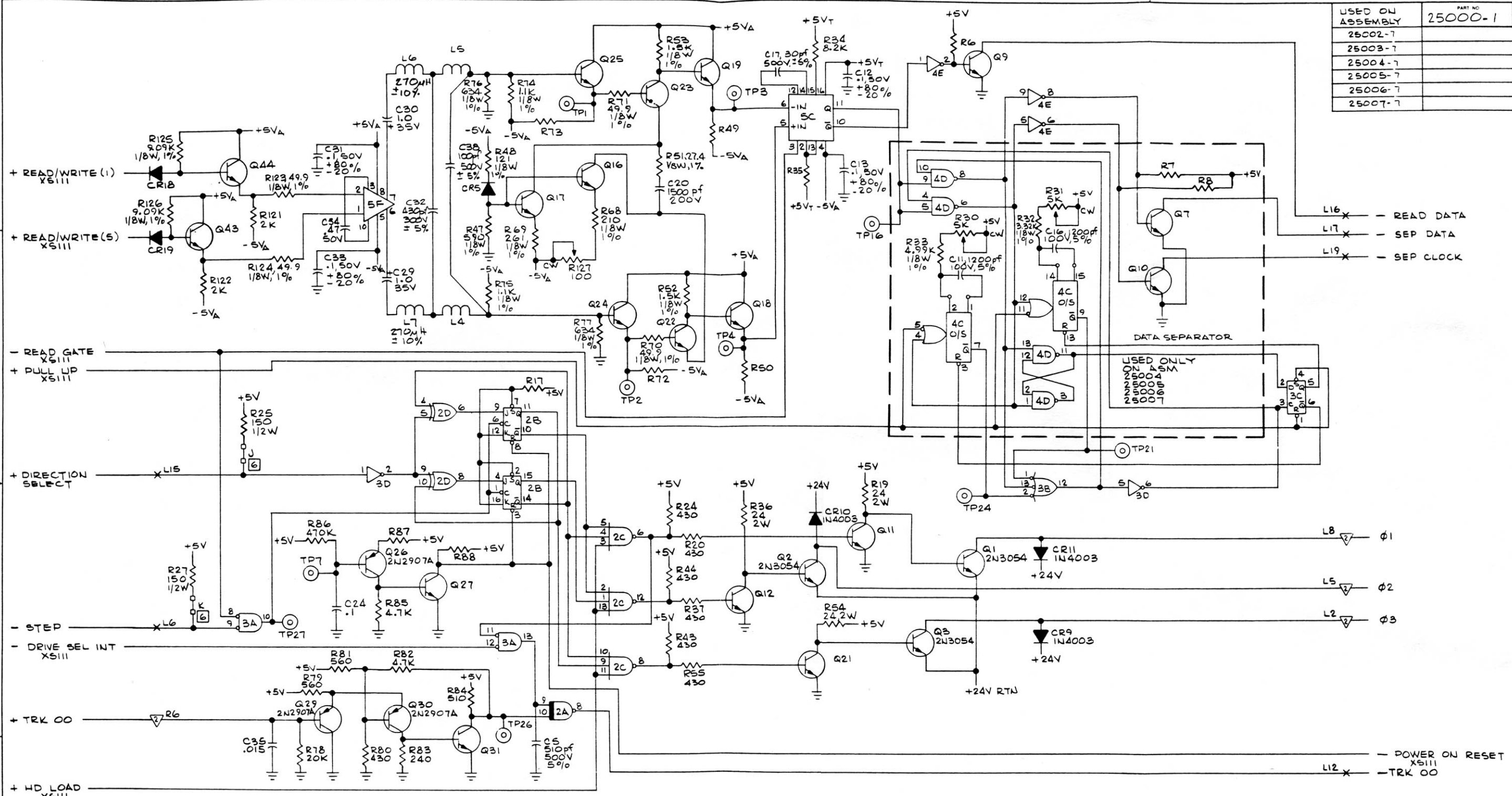
C

B

B

A

A



NOTES: UNLESS OTHERWISE SPECIFIED;

1. ALL RESISTORS ARE 1K, 1/4W, 5%.
2. ALL CAPACITORS ARE IN MICROFARADS, 100V, 10%.
3. ALL CHOKES ARE 100UH, 10%.
4. ALL DIODES ARE 1N4148.
5. ALL TRANSISTORS ARE 2N2222A.
6. SYMBOL: $\square$ = TRACE CUT CAPABILITY.
7. SYMBOL: $\square$ = JUMPER CAPABILITY.
8. CONNECTOR SYMBOL REFERENCES:
(X) = J1 (∇) = J2 (∇) = J3 (∇) = J5

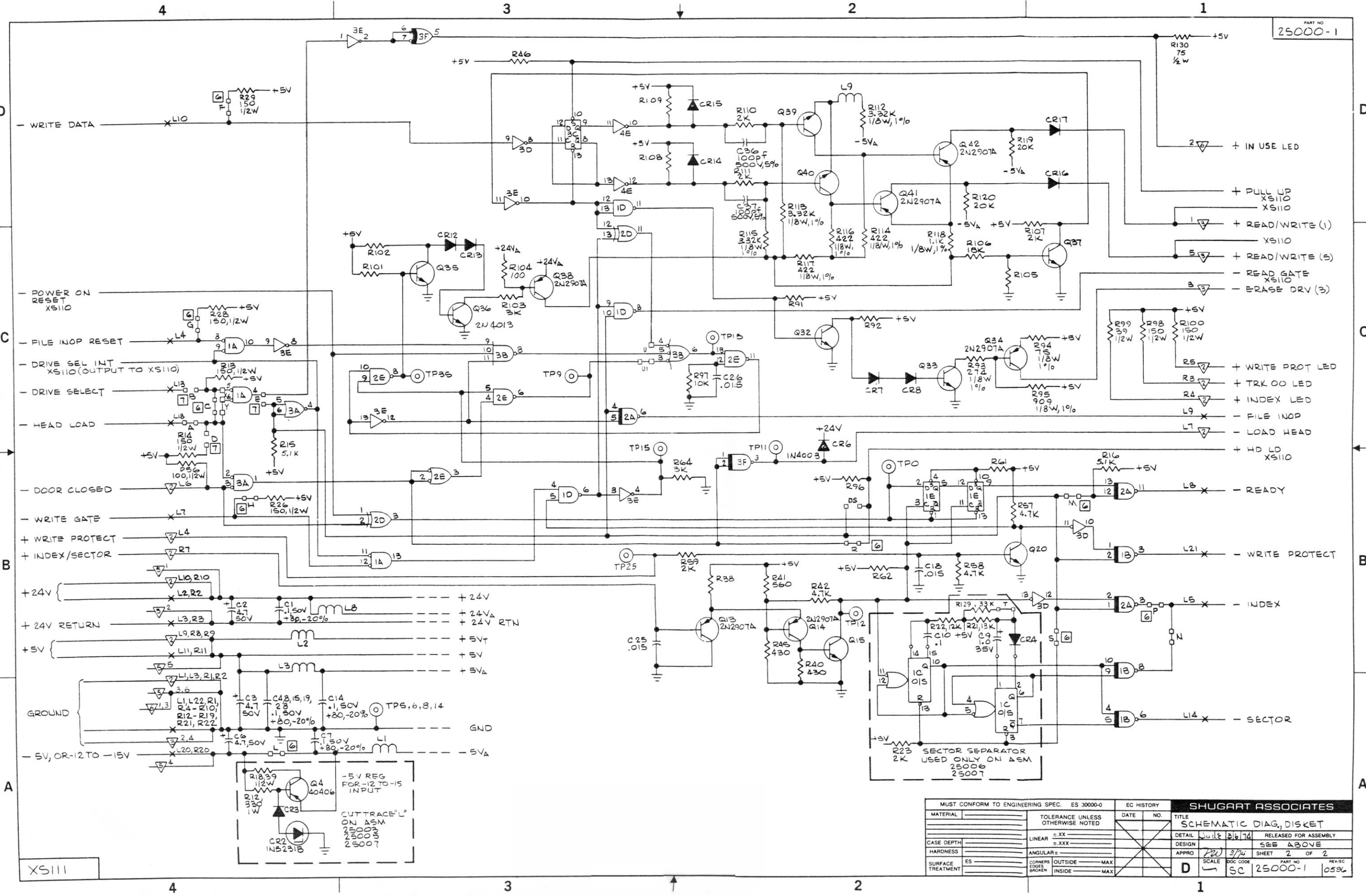
TYPE	POSITION	UNUSED ELEMENTS	+5V (PIN)	GND (PIN)
7400	1D, 4D, 2E	1D1	14	7
7402	1A, 3A	1A1		
7404	3D, 3E	3E3, 3D2		
7406	4E	4E2		
7410	3B, 2C			
7438	2A, 1B	1B4		
7474	1E, 3C		14	7
7476	2B		5	13
7486	2D		14	7
UA733	5F			
BT20	5C			8
9602	1C, 4C		16	8
75452P	3F		8	4

REF DESIGNATION
LAST USED
C3B
CR19
L9
Q44
R130
TP35

REF DESIGNATION
NOT USED
C21, 22, 23, 27
CR1
Q5, 6, 8, 2B
R1-5, 9-11, 39, 40, 63, 65-67, 89, 90
TP10, 11, 18, 19, 22, 23, 20
28, 29, 30, 31, 32, 33, 34

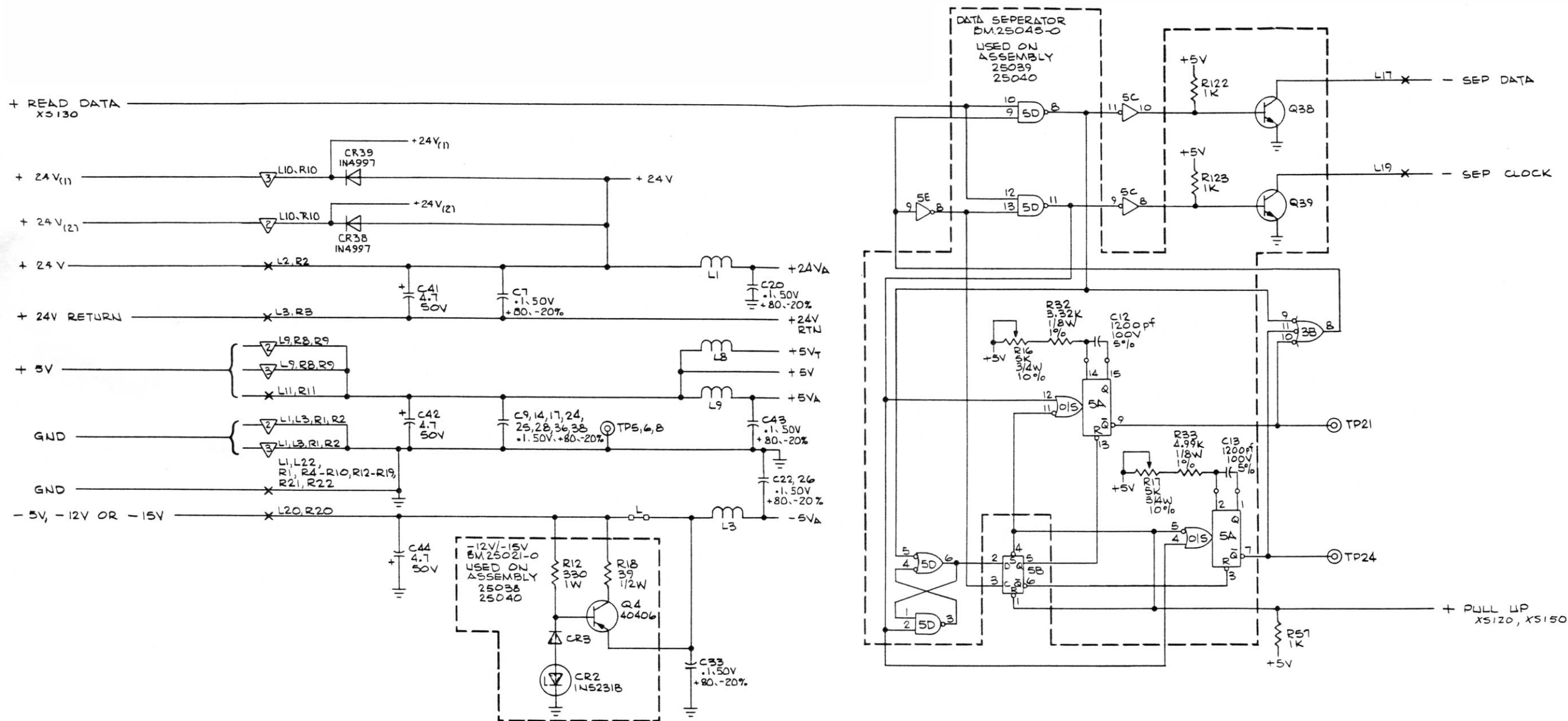
MUST CONFORM TO ENGINEERING SPEC. ES 30000-0				SHUGART ASSOCIATES			
MATERIAL	TOLERANCE UNLESS OTHERWISE NOTED	DATE	NO.	TITLE	DESIGN	APPRO	SCALE
	LINEAR = XX ANGULAR = XXX	3-75	035B	SCHEMATIC DIAG, DISKET	3/4/74	3/1-74	1 OF 2
CASE DEPTH		5-75	0396	DETAIL	3/4/74		RELEASED FOR ASSEMBLY
HARDNESS		8-75	0436	DESIGN			SEE ABOVE
SURFACE TREATMENT	CORNERS EDGES BROKEN	1-76	0485	APPRO	3/1-74		SHEET 1 OF 2
	OUTSIDE INSIDE	3-76	0517	SCALE			PART NO
		10-76	0596	D	SC	25000-1	REV/EC

XS110



MUST CONFORM TO ENGINEERING SPEC. ES 30000-0		EC HISTORY		SHUGART ASSOCIATES	
MATERIAL	TOLERANCE UNLESS OTHERWISE NOTED	DATE	NO.	TITLE	
CASE DEPTH	LINEAR ±.XX			SCHEMATIC DIAG, DISKET	
HARDNESS	ANGULAR ±.XXX			DETAIL 3/16/74	RELEASED FOR ASSEMBLY
SURFACE TREATMENT	CORNERS BROKEN OUTSIDE MAX			DESIGN	SEE ABOVE
	INSIDE MAX			APPRO	3/74
				SCALE	2 OF 2
				DOC CODE	25000-1
				PART NO	0596

3.11 902 SCHEMATIC DIAGRAMS



- NOTES: UNLESS OTHERWISE SPECIFIED;
 1. ALL CAPACITORS ARE IN MICROFARADS, 100V.
 2. ALL CHOKES ARE 100MH, 10%.
 3. ALL DIODES ARE IN4148.
 4. ALL RESISTORS ARE IN OHMS, 1/4W, 5%.
 5. ALL TRANSISTORS ARE 2N2222A.
 6. CONNECTOR SYMBOL REFERENCES:
 (X-J1), (J2-J3), (J4-J5).
 7. SYMBOL: -O-O- = CUT TRACE CAPABILITY.
 :O-O- = ADD JUMPER WIRE CAPABILITY.

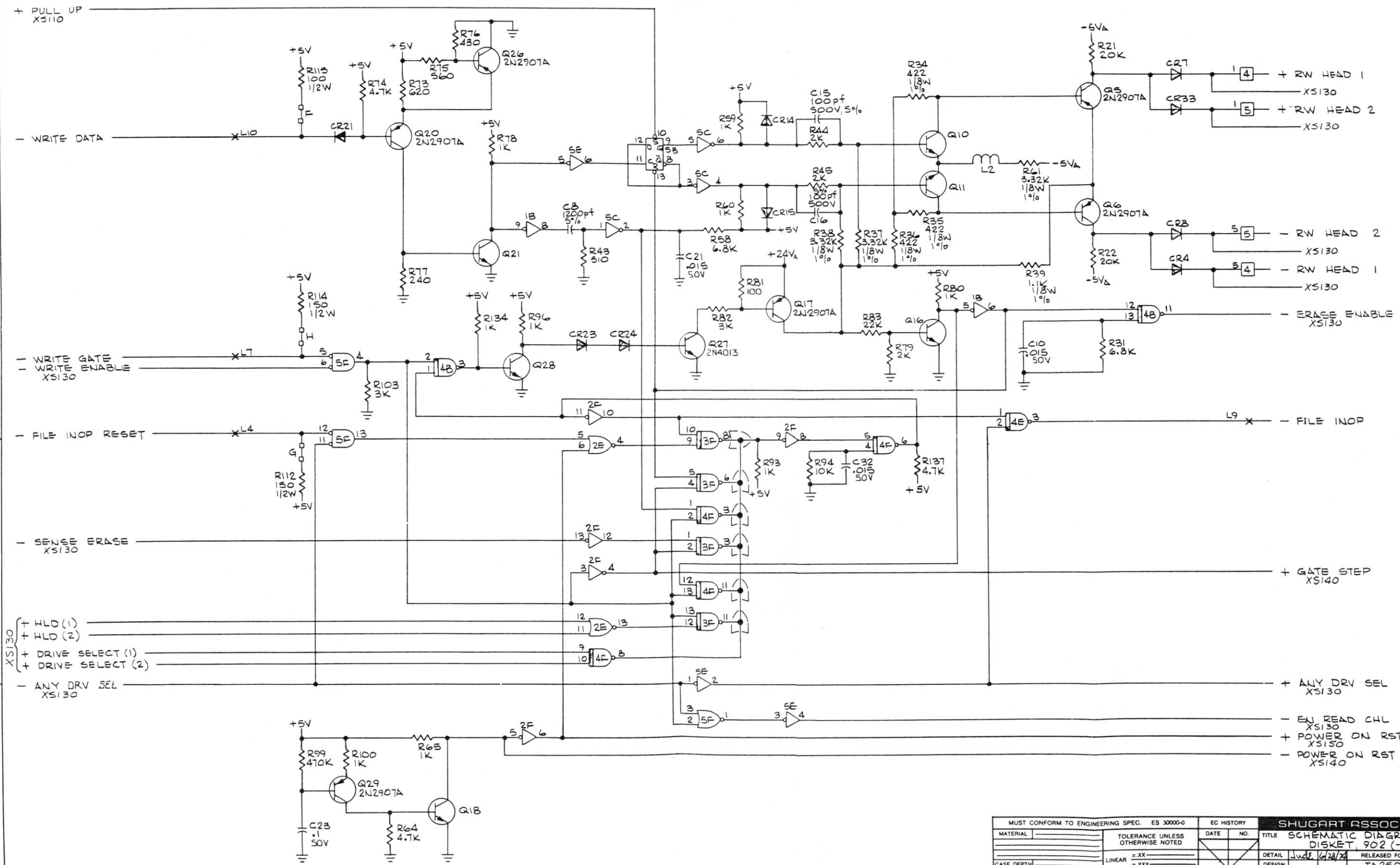
TYPE	POSITION	UNUSED ELEMENTS	VCC (PIN)	GND (PIN)
7400	5D		14	7
7402	2D, 2E, 5E		14	7
7404	1B, 5E, 2F	1B5	14	7
7406	5C		14	7
7410	3B, 1D, 1E		14	7
7438	4B, 2C, 4E, 3F, 4F		14	7
7474	5B, 4C, 4D		14	7
7476	1C, 1F		5	13
7486	1G		14	7
9602	5A		16	8
4A733	6E		-	-

TYPE	POSITION	UNUSED ELEMENTS	VCC (PIN)	GND (PIN)
BT20	5G		-	8
LM339	2B		3	12

REFERENCE DESIGNATION

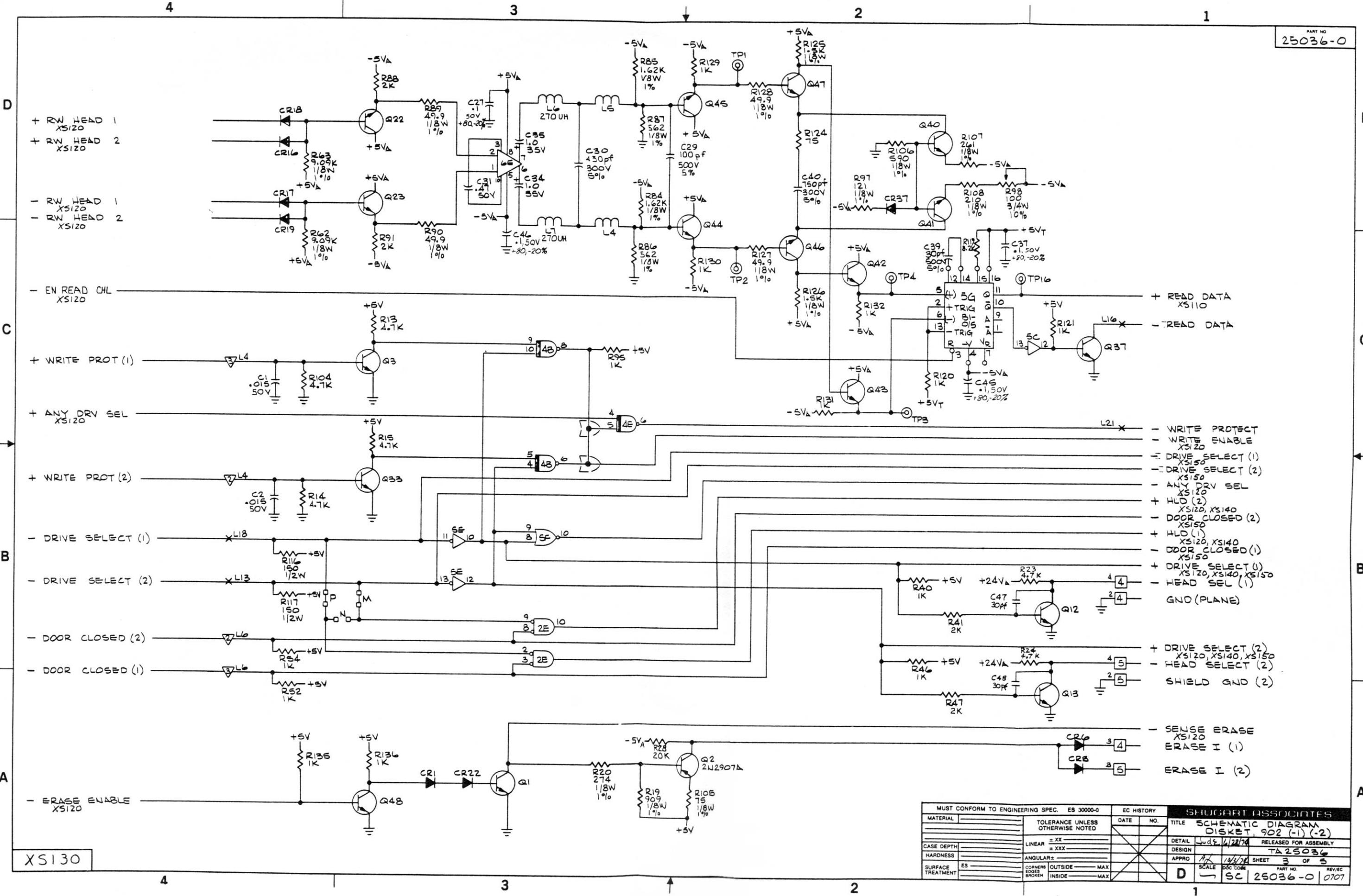
LAST USED	NOT USED
C48	C-11
CR39	CR9, 10, 26, 27, 28, 29, 30, 31, 32
L9	-
R139	R30
Q48	-
TP27	TP1, 9, 10, 11, 13, 14, 15, 17, 18, 19, 20, 22, 23, 25 (RESERVED)
J5	

MUST CONFORM TO ENGINEERING SPEC. ES 30000-0		EC HISTORY		SHUGART ASSOCIATES	
MATERIAL	TOLERANCE UNLESS OTHERWISE NOTED	DATE	NO.	TITLE SCHEMATIC DIAGRAM	
LINEAR	±.XX	10-74	0199	DISKET, 902 (-1) (-2)	
CASE DEPTH	±.XXX	10-74	0256	DESIGN	W.D. 6/28/74
HARDNESS	ANGULAR ±	3-75	0360	APPRO	TA25036
SURFACE TREATMENT	CORNERS EDGES BROKEN	5-75	0397	SCALE	10/2/74
	OUTSIDE MAX	12-75	0492	SHEET	1 OF 5
	INSIDE MAX	1-77	0707	DOC CODE	SC 25036-0
				PART NO	25036-0
				REV/EC	0707



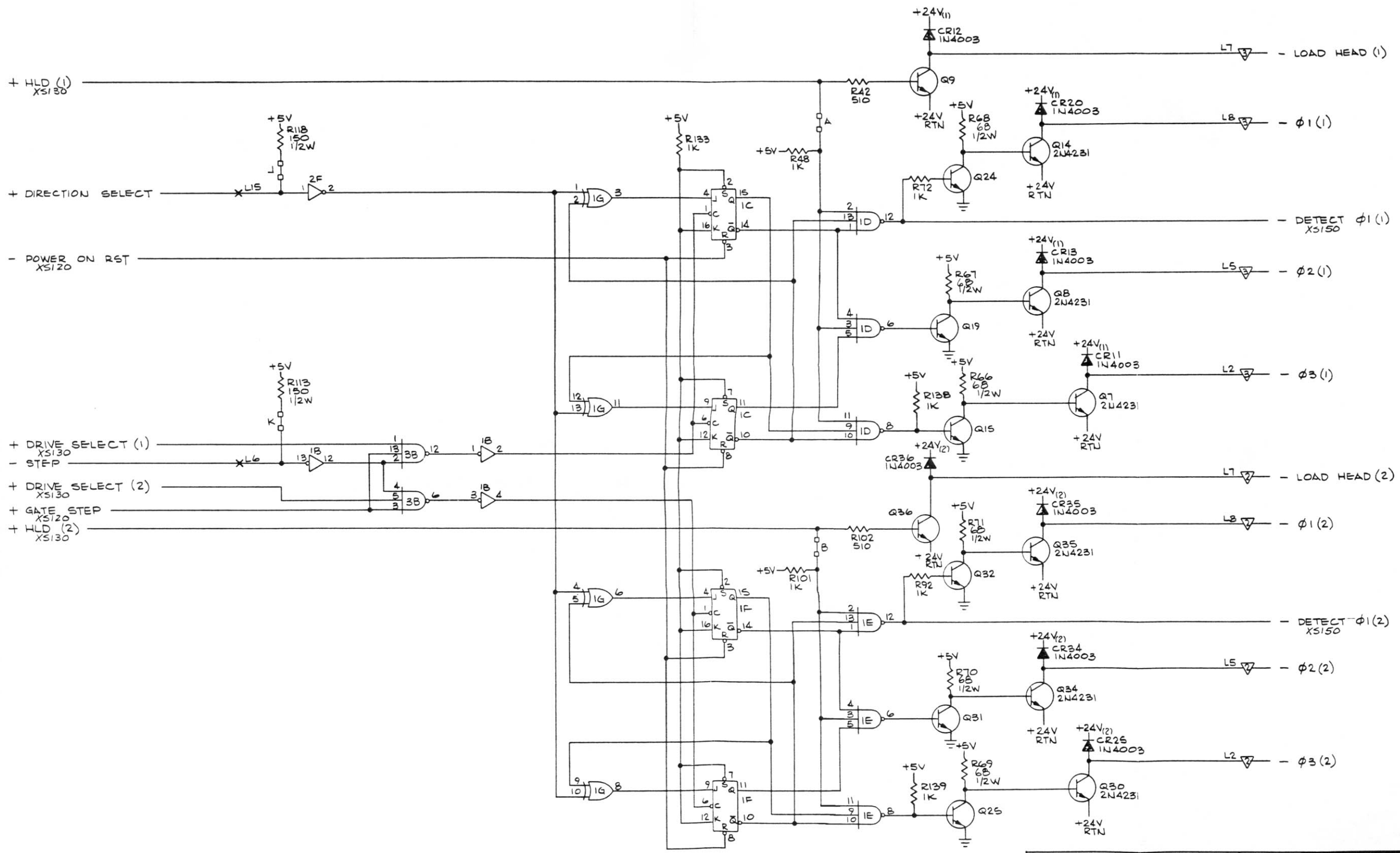
XS120

MUST CONFORM TO ENGINEERING SPEC. ES 30000-0				EC HISTORY		SHUGART ASSOCIATES			
MATERIAL		TOLERANCE UNLESS OTHERWISE NOTED		DATE	NO.	TITLE	SCHEMATIC DIAGRAM		
CASE DEPTH		LINEAR ±.XX				DESIGN	DISKET 902 (-1) (-2)		
HARDNESS		ANGULAR ±.XXX				APPRO	RELEASED FOR ASSEMBLY		
SURFACE TREATMENT	ES	CORNERS OUTSIDE MAX				SCALE	TA25036		
		EDGES INSIDE MAX				D	SHEET 2 OF 5		
						SC	PART NO 25036-0		
							REV/EC 0707		



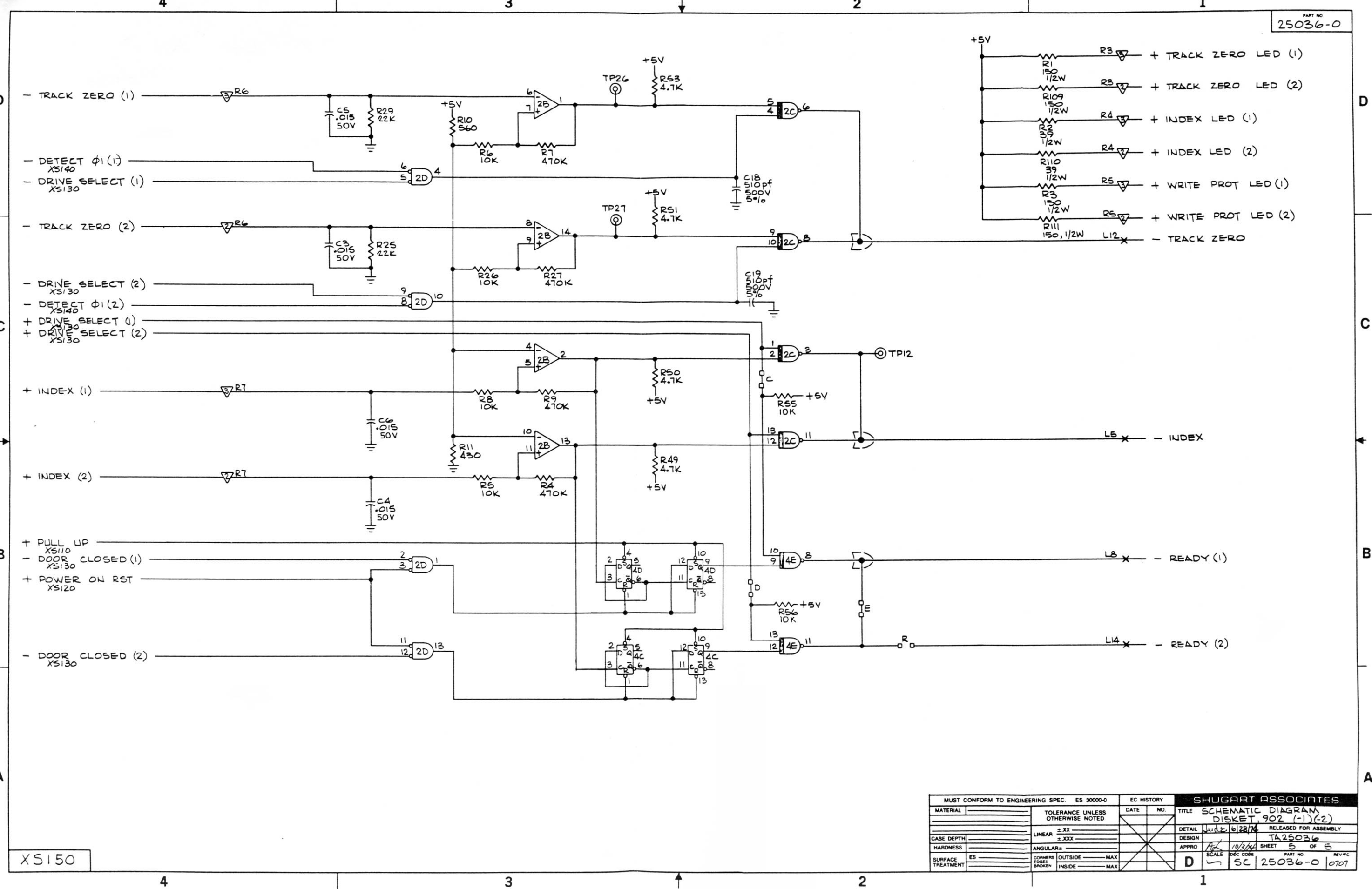
XS130

MUST CONFORM TO ENGINEERING SPEC. ES 30000-0				EC HISTORY		SHUGART ASSOCIATES	
MATERIAL	TOLERANCE UNLESS OTHERWISE NOTED	DATE	NO.	TITLE	DETAIL	DESIGN	APPRO
CASE DEPTH	LINEAR ±.XX ±.XXX			SCHEMATIC DIAGRAM	1/1/74	902 (-1) (-2)	
HARDNESS	ANGULAR ±			DISKET, 902 (-1) (-2)			
SURFACE TREATMENT	CORNERS OUTSIDE MAX EDGES BROKEN INSIDE MAX			RELEASED FOR ASSEMBLY			
				TA 25036			
				SCALE 1/1/74			
				3 OF 5			
				SC 25036-0			
				0707			



XS140

MUST CONFORM TO ENGINEERING SPEC. ES 30000-0			EC HISTORY		SHUGART ASSOCIATES		
MATERIAL	TOLERANCE UNLESS OTHERWISE NOTED		DATE	NO.	TITLE		
	LINEAR ±.XX				SCHEMATIC DIAGRAM		
	ANGULAR ±.XXX				DISKET, 902 (-1) (-2)		
CASE DEPTH	ANGULAR ±.XXX				RELEASED FOR ASSEMBLY		
HARDNESS	ANGULAR ±.XXX				DESIGN		
SURFACE TREATMENT	ANGULAR ±.XXX				APPRO		
	CORNERS BROKEN				SCALE		
	OUTSIDE MAX				DOC CODE		
	INSIDE MAX				PART NO		
					REV/EC		
					D SC 25036-0 0707		



XS150

MUST CONFORM TO ENGINEERING SPEC. ES 30000-0				EC HISTORY		SHUGART ASSOCIATES			
MATERIAL		TOLERANCE UNLESS OTHERWISE NOTED		DATE	NO.	TITLE	SCHEMATIC DIAGRAM		
		LINEAR	±.XX			DISKET, 902 (-1) (-2)	RELEASED FOR ASSEMBLY		
CASE DEPTH			±.XXX			DESIGN	10/26/74	TA25036	
HARDNESS		ANGULAR				APPRO	10/3/74	SHEET 5	OF 5
SURFACE TREATMENT	ES	CORNERS	OUTSIDE	MAX		SCALE	DOC CODE	PART NO.	REV/C
		EDGES	INSIDE	MAX		D	SC	25036-0	0707