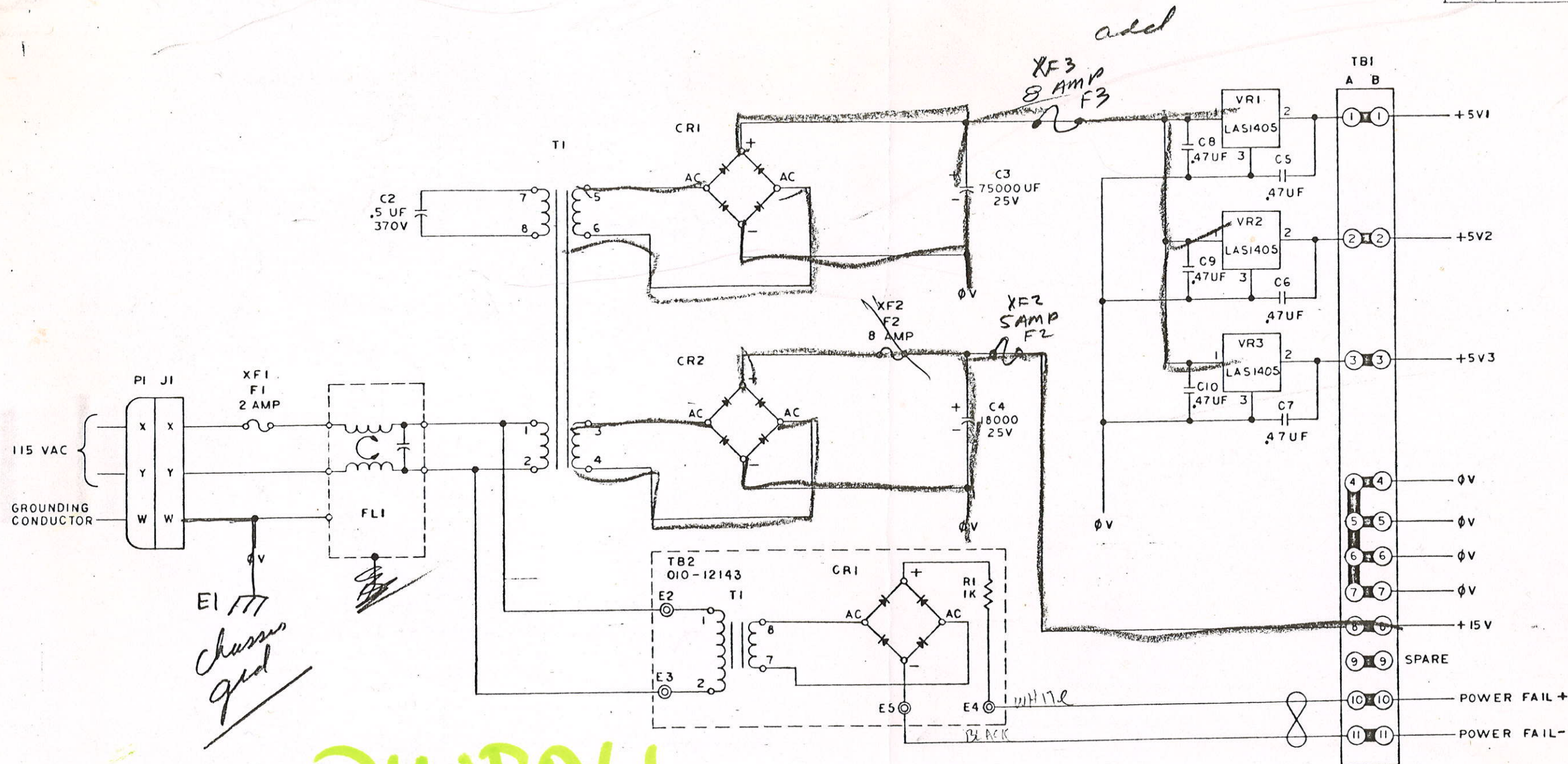


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ZONE		LTR		REVISIONS	DATE	APPROVED
	X1			PRE PRODUCTION REL.	11-1-77	
	A			PRODUCTION REL ER28	1-31-78	
	B			REVISED PER ER43	3-9-78	
	C			REVISED PER ER53	3-28-78	
	D			REVISED PER ER60	4-14-78	
	E			REVISED PER ER83	5-22-78	

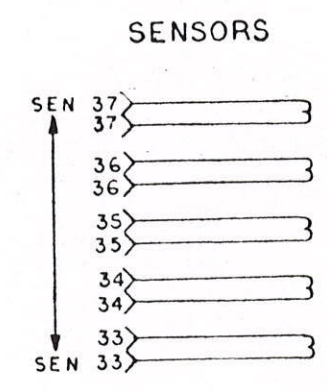
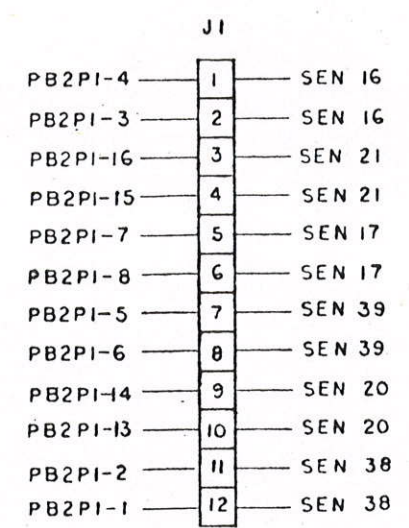
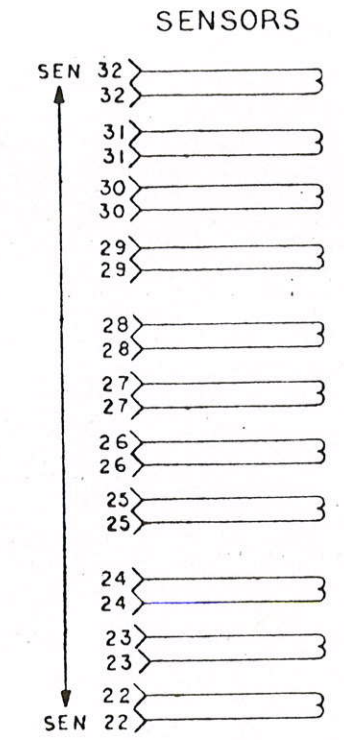
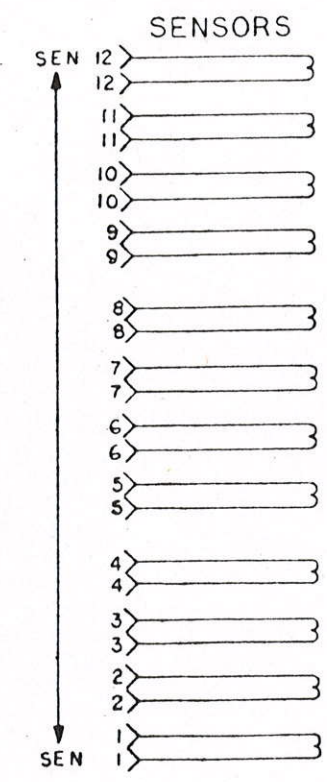
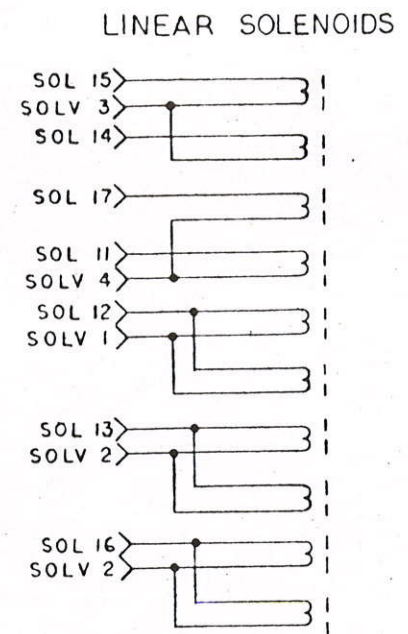
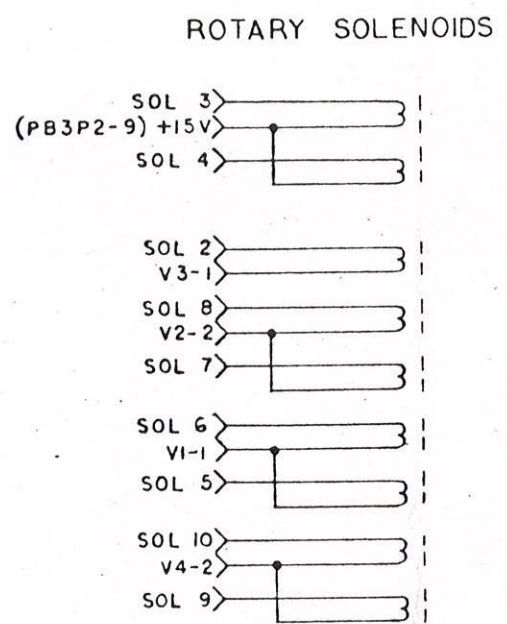
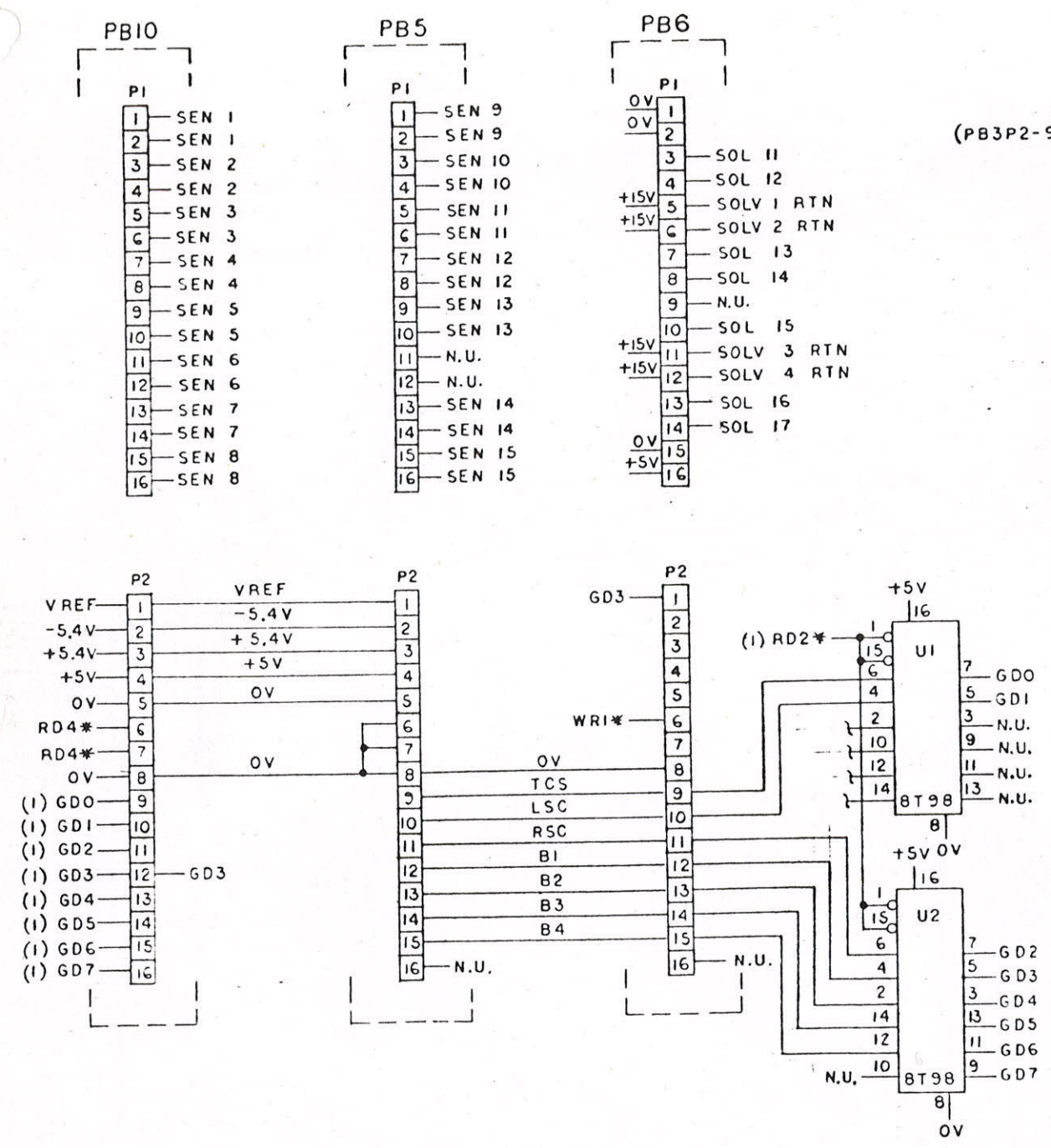


PINBALL
SCHEMATICS

3. RESISTANCE VALUES ARE IN OHMS, $\pm 5\%$, $\frac{1}{2}$ W
2. CAPACITANCE VALUES ARE IN MICROFARADS, $\pm 10\%$, 50V
1. FOR ASSEMBLY SEE 010-12198

NOTES: UNLESS OTHERWISE SPECIFIED

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.				DRAWN BY W. R. Huff		DATE 11-1-77	
DECIMALS ANGLES				CHECKED BY			
1 PLACE 2 PLACE 3 PLACE $\pm 1/2"$ $\pm .1$ $\pm .03$ $\pm .010$				ENGINEERING DEPT.			
MATERIAL				APPROVAL		1-3-78	
FINISH				APPROVAL			
HEAT TREAT				APPROVAL			
APPLICATION				QTY. REQD.			
DASH NO.				NEXT ASSY		USED ON	
REF				NEXT ASSY		FINAL ASSY	
001 010-12198-001				4047		REF	
TECHNOLOGY MARKETING INC.				SCHEMATIC DIAGRAM, POWER SUPPLY-MICROPIN			
SIZE				CODE IDENT NO.		LTR	
D				010-12198		E	
SCALE				SHEET		OF 1	

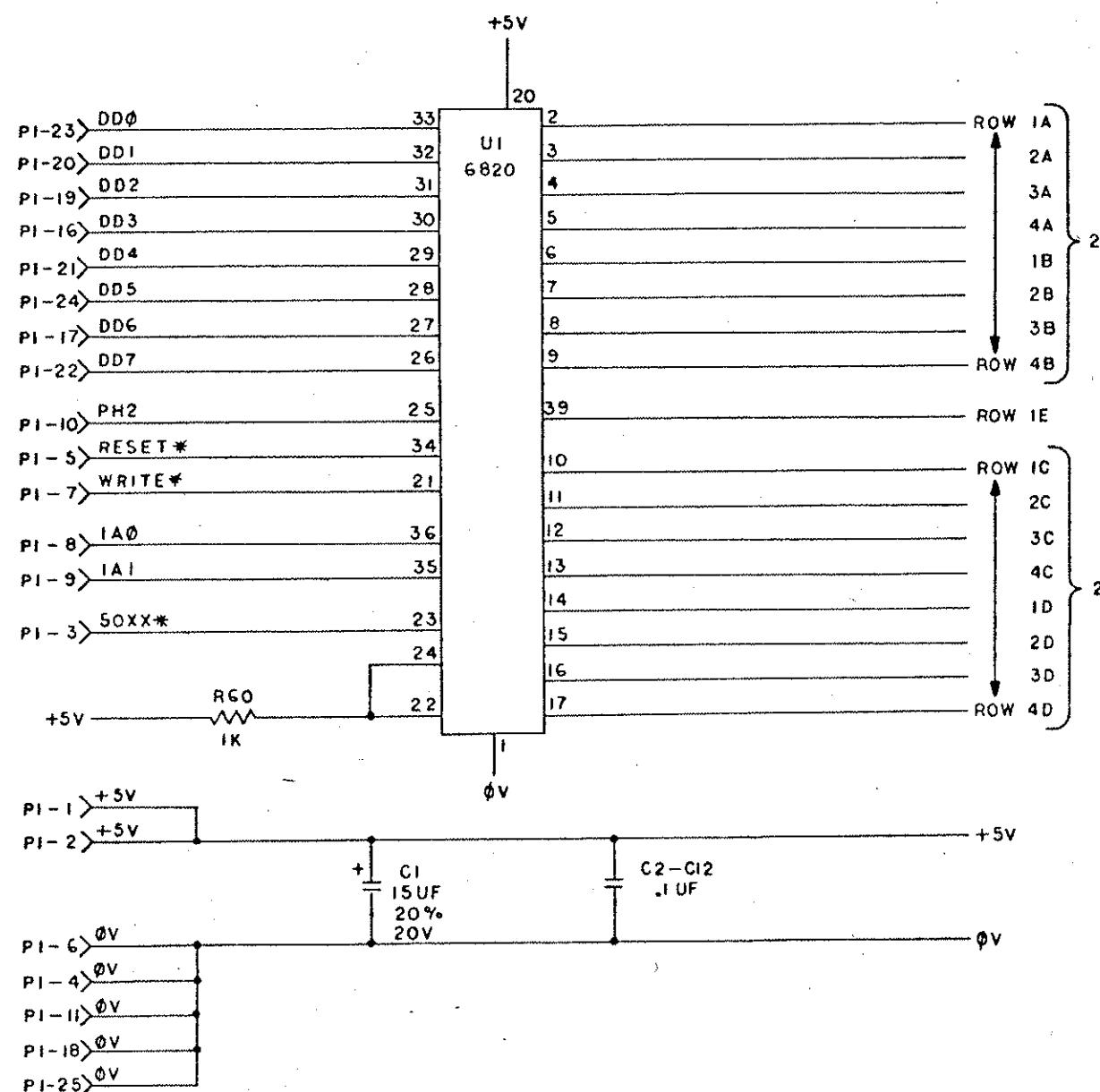


QTY	CODE	PART OR	NOMENCLATURE
REQD	IDENT	IDENTIFYING NO.	OR DESCRIPTION
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE		CONTRACT NO.	
FRACTIONS	DECIMALS	ANGLES	
XX	XX	XXX	
MATERIAL		APPROVALS	DATE
FINISH		CHECKED	
NEXT ASSY		USED ON	
APPLICATION		DO NOT SCALE DRAWING	
SIZE		CODE IDENT NO.	DRAWING NO.
D		014-12156	A
SCALE		SHEET 2 OF 2	

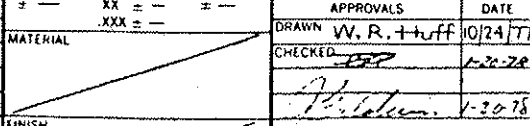
TECHNOLOGY MARKETING INC

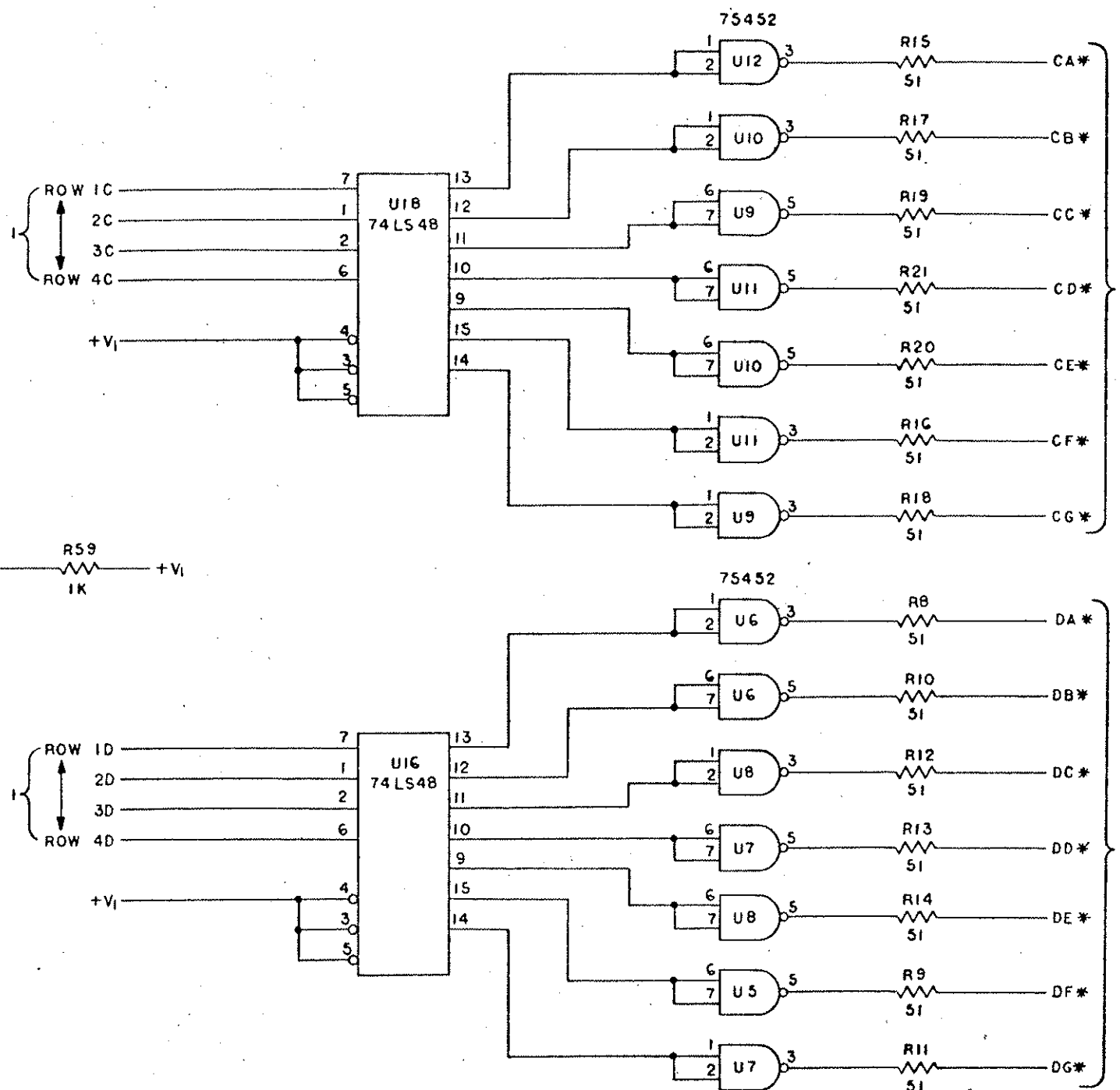
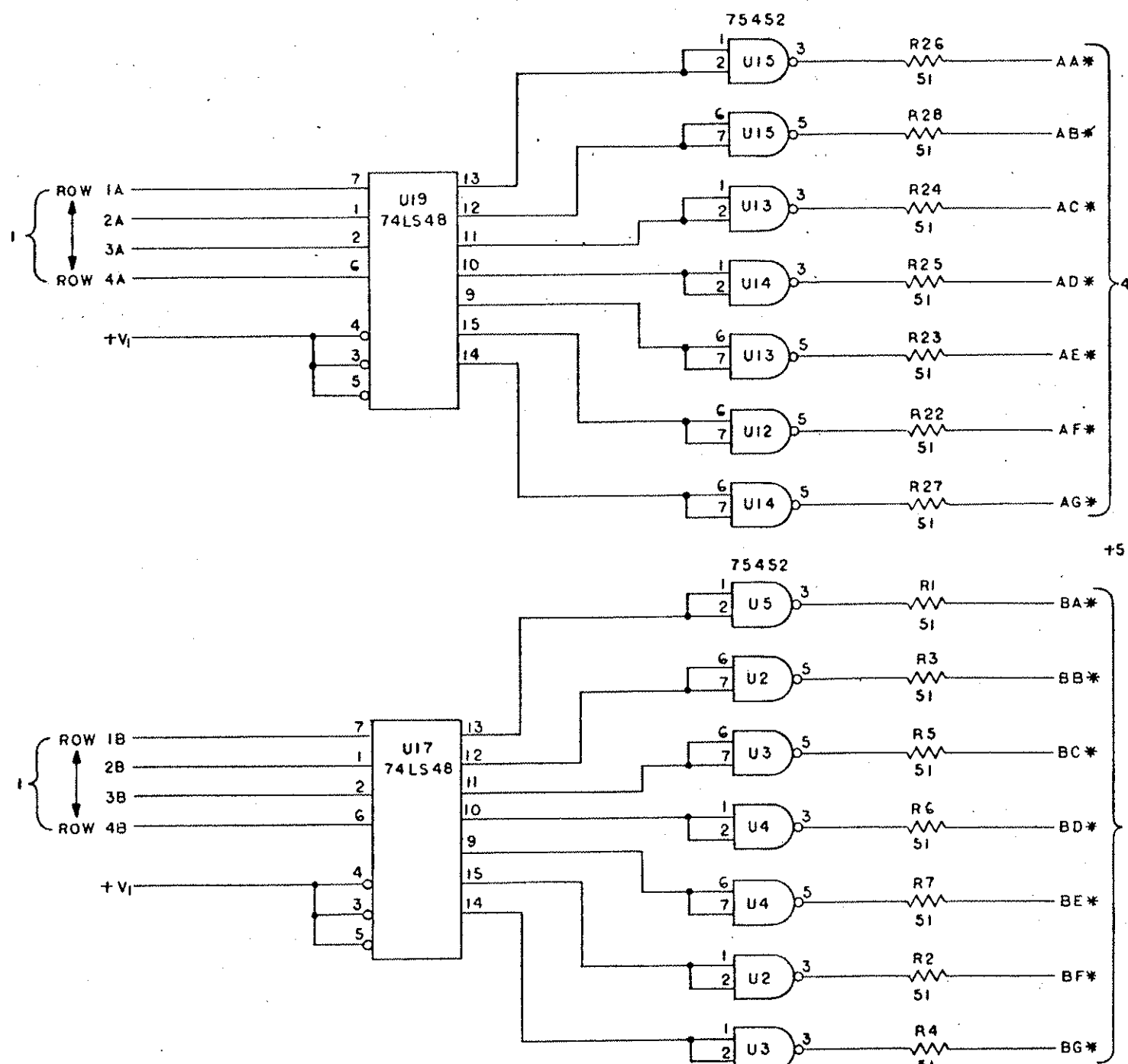
SCHEMATIC DIAGRAM,
GAME BOARD

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVE
	X1	PRE PRODUCTION RELEASE	10/24/77	
	X2	REVISED & REDRAWN	10/24/77	
	A	PRODUCTION REL. ER24	1-16-78	<i>[Signature]</i>



1. ALL DIODES ARE DATA DISPLAY PART NO. 200 BR
2. CAPACITANCE VALUES ARE IN MICROFARADS, $\pm 10\%$, 50V
3. RESISTANCE VALUES ARE IN OHMS, $\pm 5\%$, $\frac{1}{4}$ W
4. FOR ASSEMBLY SEE 010-12155
NOTES: UNLESS OTHERWISE SPECIFIED

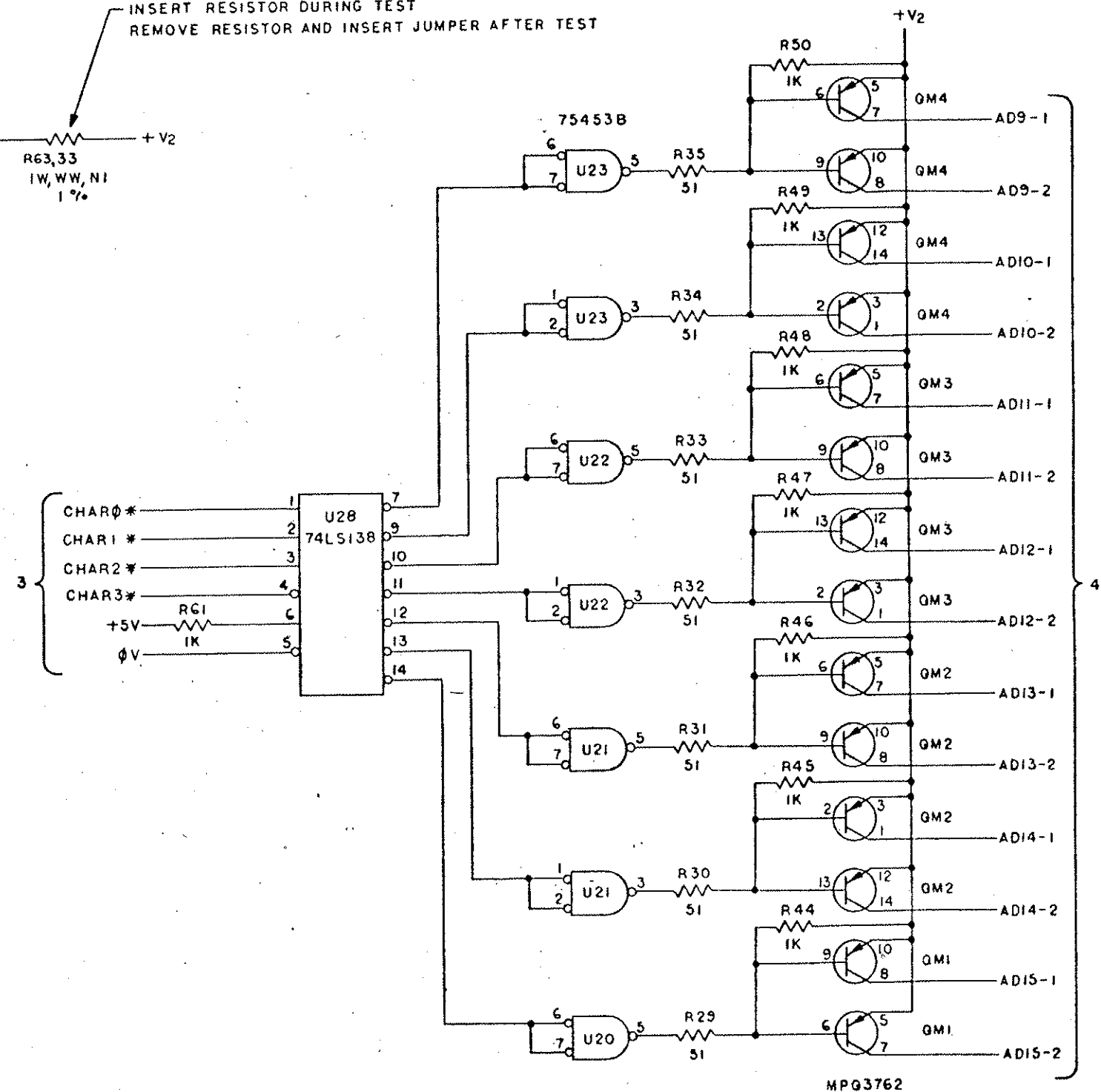
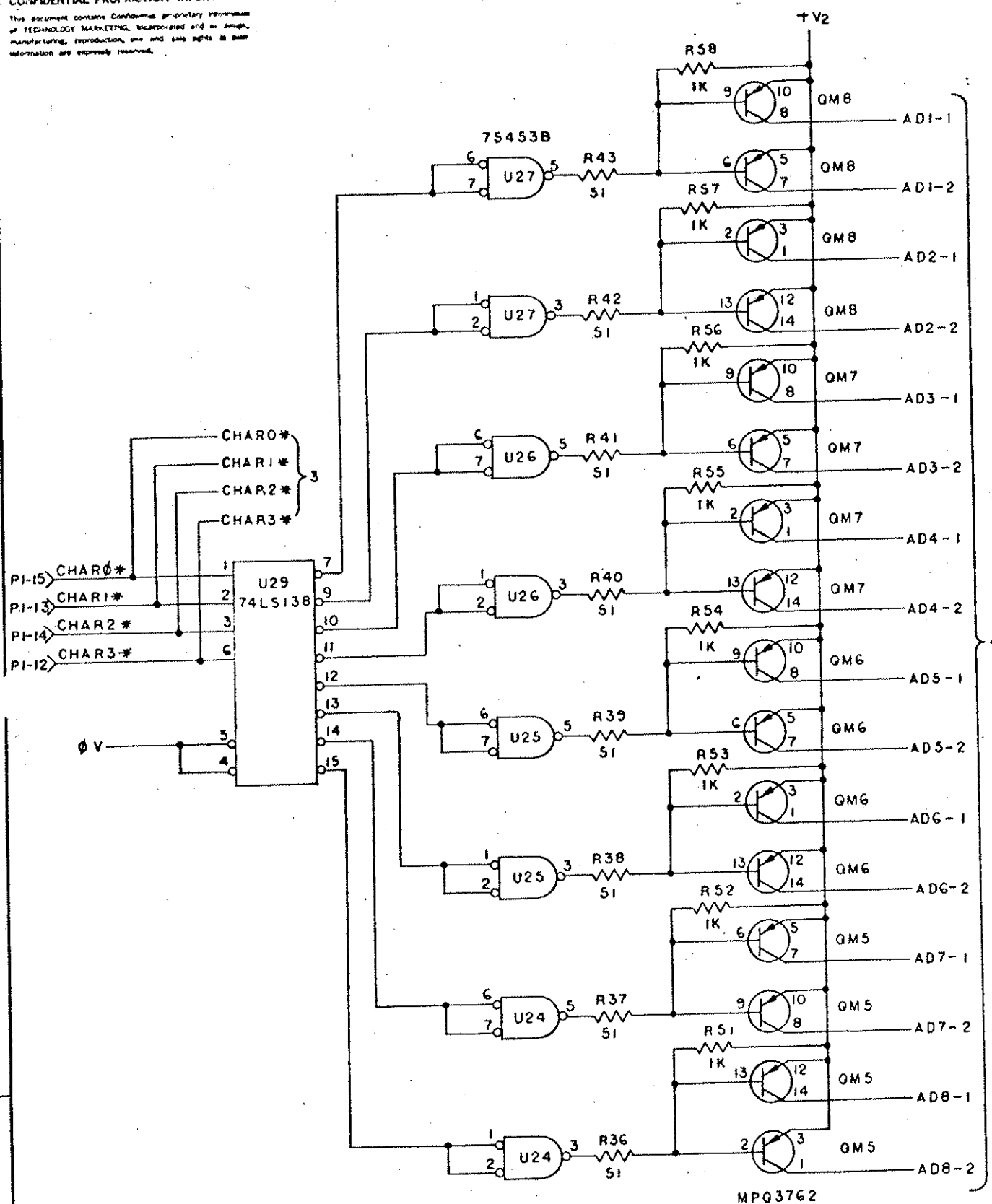
QTY RLQD		CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± — XX ± — ± — XXX ± —				PARTS LIST			
				CONTRACT NO.		 TECHNOLOGY MARKETING INC	
MATERIAL 				APPROVALS		DATE	
				DRAWN W. R. Huff		10/24/77	
FINISH				CHECKED 		1-30-78	
				 1-30-78			
OIO-12155-COI		4047		SIZE D		CODE IDENT NO.	DRAWING NO.
NEXT ASSY		USED ON					
APPLICATION		DO NOT SCALE DRAWING		SCALE 		SHEET 1 OF 4	
						014-12155 A	

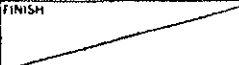


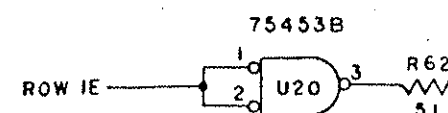
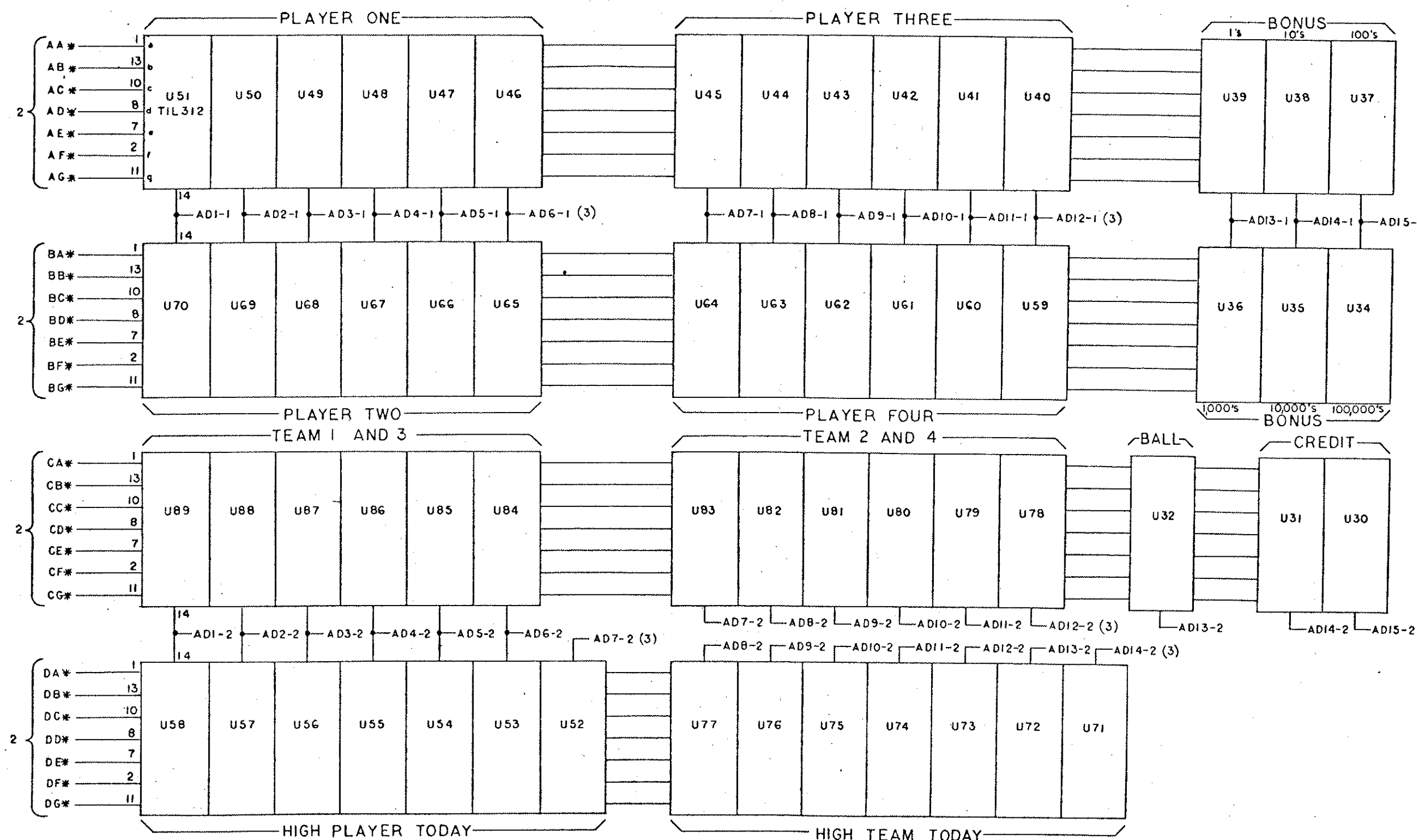
CATHODE DECODE AND DRIVE

QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:			
FRACTIONS	DECIMALS	ANGLES	
±	XX ±	XXX ±	
MATERIAL			
FINISH			
NEXT ASSY	USED ON	APPLICATION	
DO NOT SCALE DRAWING			

CONTRACT NO.		TECHNOLOGY MARKETING INC	
APPROVALS		DATE	
DRAWN W. R. Huff		10/24/77	
CHECKED		1-24-78	
SIZE	CODE IDENT NO.	DRAWING NO.	LTR
D		014-12155	A
SCALE		SHEET 2 OF	



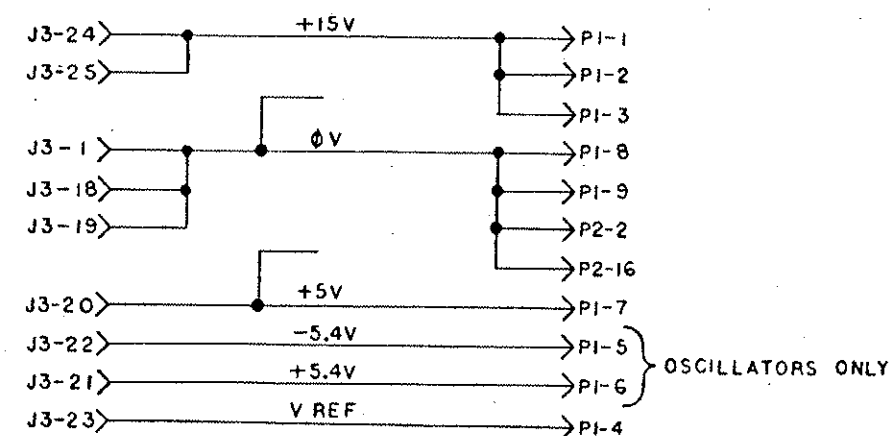
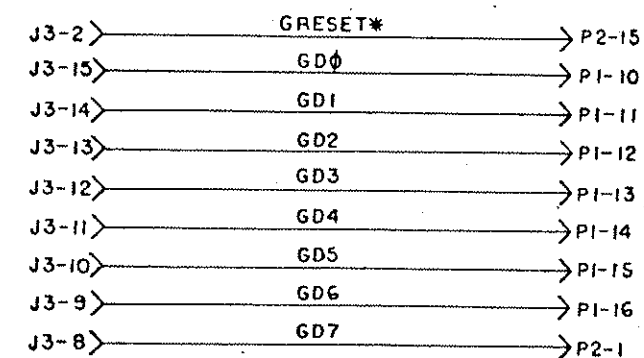
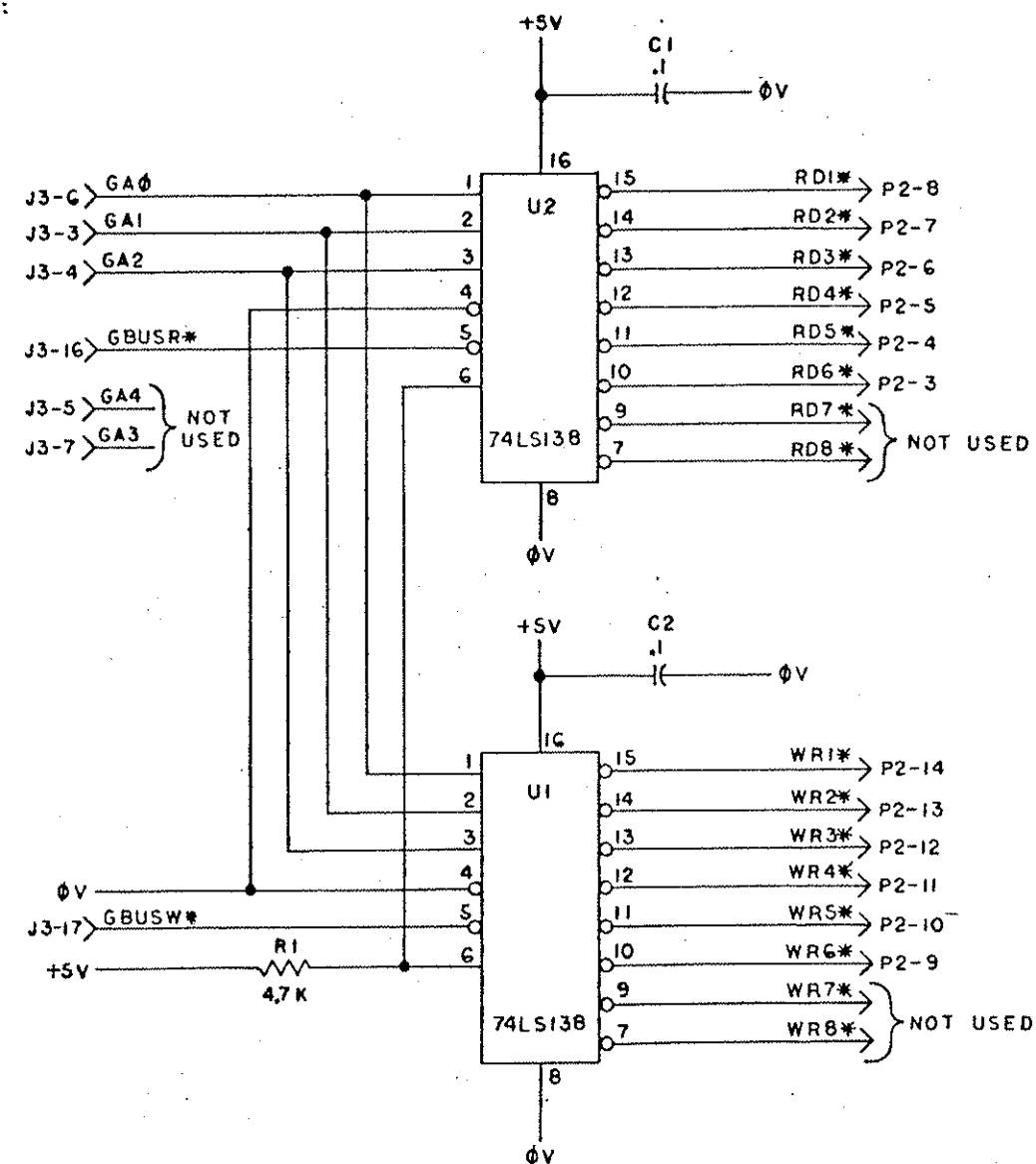
QTY REQD		CODE IDENT		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION	
						PARTS LIST	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE FRACTIONS DECIMALS ANGLES ± — .XX ± — ± — XXX ± —				CONTRACT NO		 TECHNOLOGY MARKETING INC	
MATERIAL  FINISH 				APPROVALS DATE DRAWN <u>W.R. Huff</u> 10/24/77 CHECKED <u>JEP</u> 1-20-78		SCHEMATIC DIAGRAM, DISPLAY	
NEXT ASSY		USED ON		SIZE		CODE IDENT NO	DRAWING NO
				D			014-12155
APPLICATION				DO NOT SCALE DRAWING		SCALE 	SHEET 3 OF



CR5	LED 1	AD1-1 "PLAYER 1"
CR6	LED 2	AD2-1 "PLAYER 2"
CR7	LED 3	AD3-1 "PLAYER 3"
CR8	LED 4	AD4-1 "PLAYER 4"
CR2	LED 5	AD5-2 "TILT"
CR3	LED 6	AD6-2 "PAY ATTENDANT"
CR4	LED 7	AD7-2 "GAME OVER"
CR1	LED 8	AD8-2 "SAME PLAYER"

QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
FRACTIONS DECIMALS ANGLES			
XX XX XX			
XXX XXX			
MATERIAL			
FINISH			
DO NOT SCALE DRAWING			
CONTRACT NO.			
APPROVALS DATE			
DRAWN W. R. Huff 10/24/77			
CHECKED J. R. Huff 11/2/77			
TECHNOLOGY MARKETING INC.			
SCHEMATIC DIAGRAM, DISPLAY			
SIZE CODE IDENT NO. DRAWING NO.			
D 014-12155			
LTA A			
SHEET 4 OF 4			

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVE
	XI	PRE PRODUCTION REL.	10-12-77	
	A	PRODUCTION REL. ER23	1-12-78	B



3. RESISTANCE VALUES ARE IN OHMS *50, 4M.
2. CAPACITANCE VALUES ARE IN MICROFARADS *100, 50V.
1. FOR ASSEMBLY SEE 010-12153

NOTES: UNLESS OTHERWISE SPECIFIED

QTY REQD		CODE IDENT		PART OR IDENTIFYING NO		NOMENCLATURE OR DESCRIPTION			
				PARTS LIST					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE FRACTIONS DECIMALS ANGLES ± — XX ± — ± — XXX — —				CONTRACT NO		 TECHNOLOGY MARKETING INC SCHEMATIC DIAGRAM, INTERFACE BOARD			
				APPROVALS					
MATERIAL				DRAWN <u>W.R. Huff</u>		10-12-77			
				CHECKED <u>J. Sullivan</u>		1-20-78			
FINISH									
NEXT ASSY		4047				SIZE D		CODE IDENT NO	
USED ON						DRAWING NO		014-12153	
APPLICATION		DO NOT SCALE DRAWING				SHEET		OF	

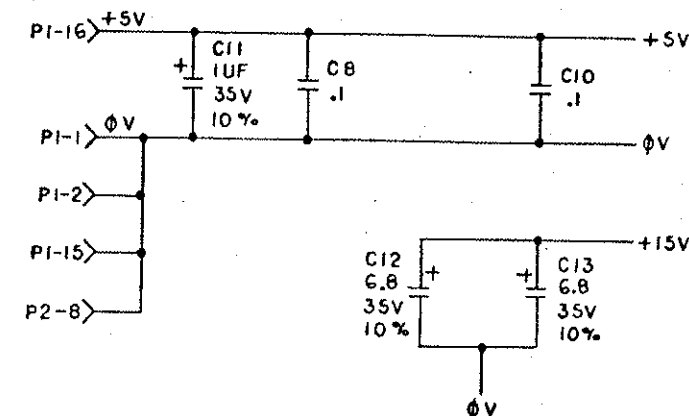
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REVISIONS			
ZONE	LTR	DESCRIPTION	DATE
	X1	PRE-PRODUCTION REL	7-20-77
	X2	REVISED & REDRAWN	10-19-77
	X3	SHT 2 ADDED RM1	1-4-78
	A	PRODUCTION REL ER23	1-12-78
	B	REVISED PER ER68	5-1-78

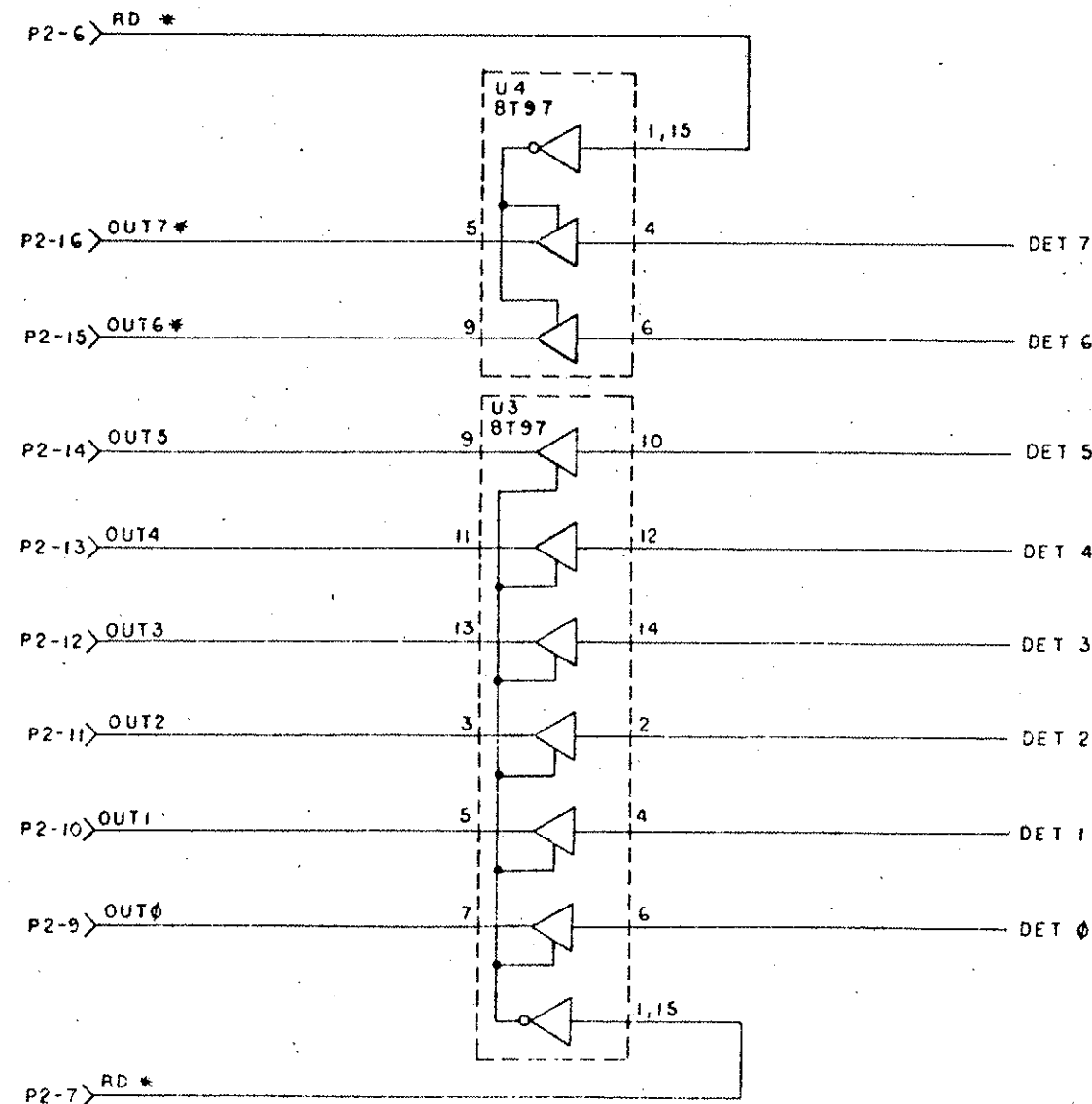
3. FOR ASSEMBLY SEE 010-12152
 2. RESISTANCE VALUES ARE IN OHMS, $\pm 5\%$, $\frac{1}{4}$ W
 1. CAPACITANCE VALUES ARE IN MICROFARADS, $\pm 10\%$, 50V
 NOTES: UNLESS OTHERWISE SPECIFIED

QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE FRACTIONS DECIMALS ANGLES ± — .XX ± — ± — XXX ± —		CONTRACT NO.	TECHNOLOGY MARKETING INC
MATERIAL		APPROVALS	DATE
FINISH		CHECKED W. R. + H	10/19/77
DO NOT SCALE DRAWING		1-4-78	1-20-78
010-12152-001	4047	SCHEMATIC DIAGRAM, CUSHION DRIVER	
NEXT ASSY	USED ON	SIZE	CODE IDENT NO
APPLICATION	DO NOT SCALE DRAWING	D	014-12152
		SCALE	DRAWING NO
			1
			2
			3
			4
			5
			6
			7
			8



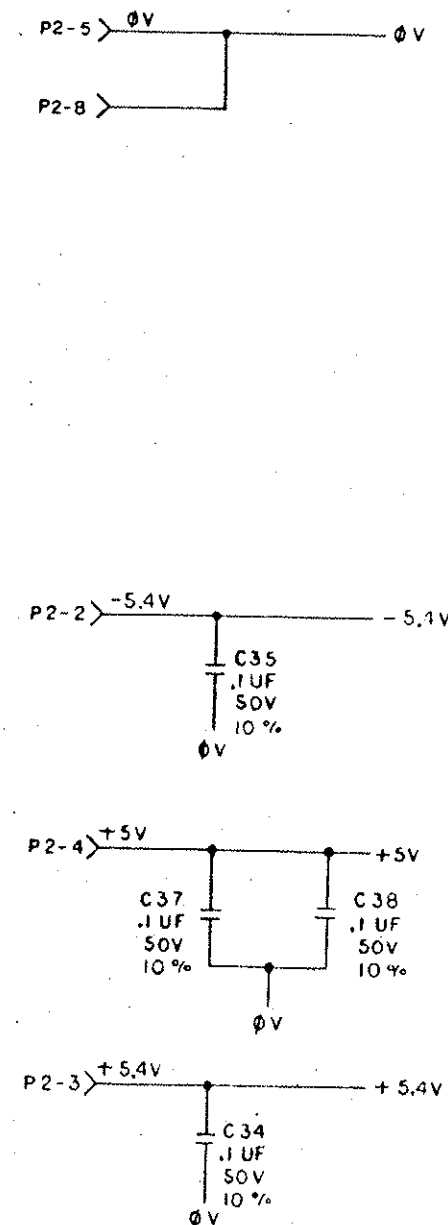
QTY REQD	CODE IDENT	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE FRACTIONS DECIMALS ANGLES ± — XX ± — ± —			PARTS LIST		
MATERIAL			 TECHNOLOGY MARKETING INC		
FINISH			SCHEMATIC DIAGRAM, CUSHION DRIVER		
DO NOT SCALE DRAWING			SIZE D CODE IDENT NO 014-12152 DRAWING NO 014-12152 LTR B		
			SCALE 1" = 1.00" SHEET 2 OF 2		

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
X1		PRE-PRODUCTION REL	10/17/77	
X2		REVISED & REDRAWN	10/17/77	
A		PRODUCTION REL. ER23	1-12-78	
B		REVISED PER ER36	2-7-78	



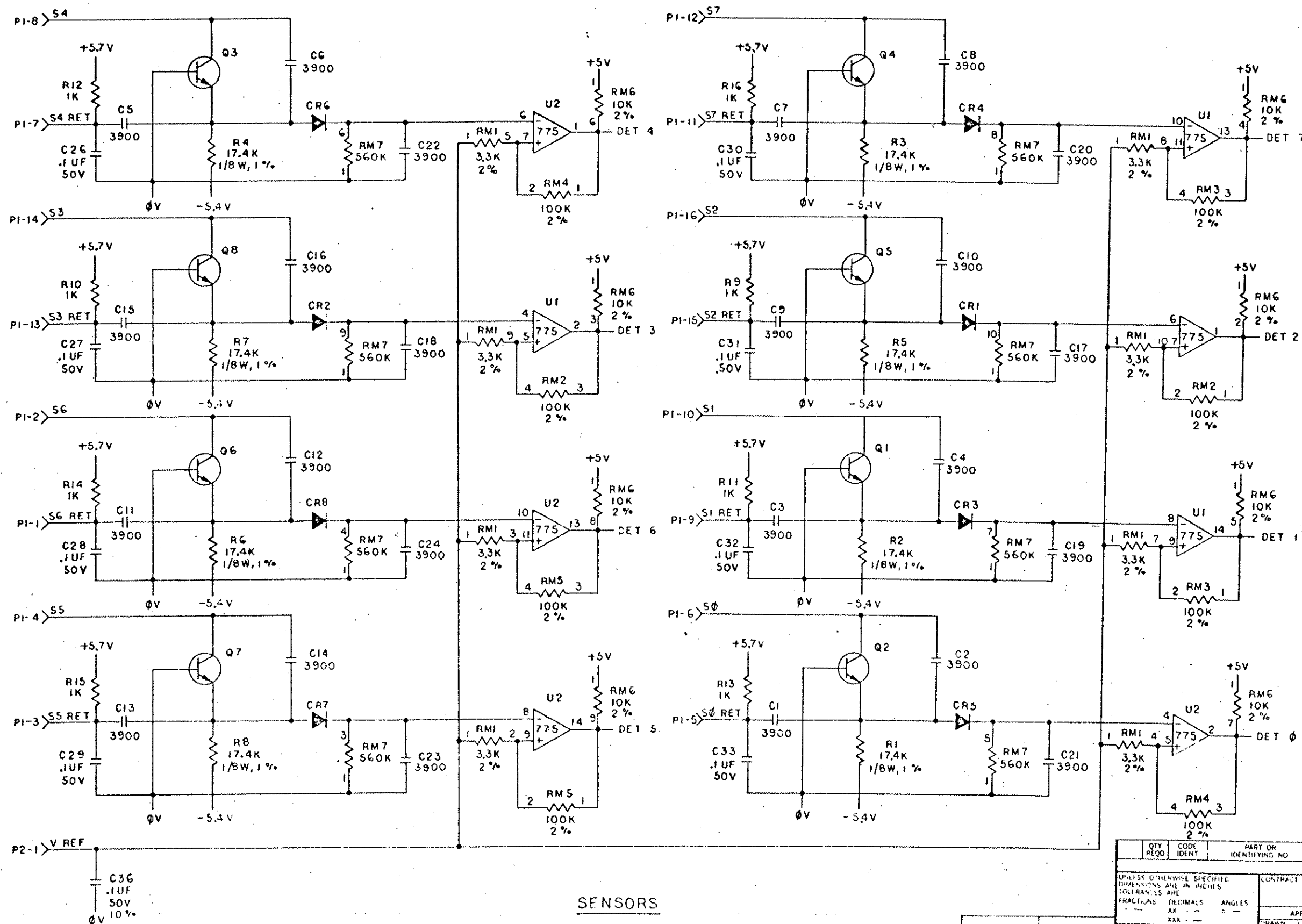
DETECTOR NO. 1

-001



5. ALL TRANSISTORS ARE 2N2369
 4. ALL DIODES ARE IN4607
 3. RESISTANCE VALUES ARE IN OHMS, 1/4 W, ±5%
 2. CAPACITANCE VALUES ARE IN PICO FARADS, 63V, ±2.5%
 1. FOR ASSEMBLY SEE 010-12151-001
- NOTES: UNLESS OTHERWISE SPECIFIED

QTY	CODE	PART OR	NOMENCLATURE
REQD	IDENT	IDENTIFYING NO	OR DESCRIPTION
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE FRACTIONS DECIMALS ANGLES XXX		APPROVALS DATE CHECKED DATE	
MATERIAL		TECHNOLOGY MARKETING INC.	
FINISH		SCHEMATIC DIAGRAM, DETECTOR NOS. 1 AND 2	
NEXT ASSY USED ON		SIZE CODE IDENT NO DRAWING NO LTR	
APPLICATION		D 014-12151 B	
DO NOT SCALE DRAWING		SCALE SHEET 1 4	



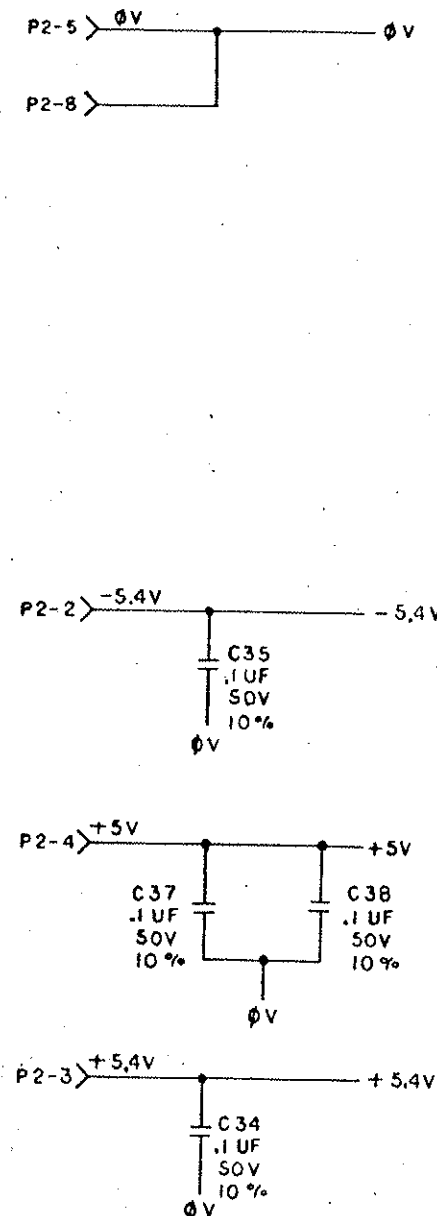
SENSORS

DETECTOR NO. 1

-001

QTY REQD	CODE IDENT	PARTY OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. FRACTIONS ARE DECIMALS. ANGLES ARE DEGREES.			
MATERIAL		CONTRACT NO.	
FINISH		APPROVALS	
NEXT ASSY		DRAWN W. R. H. 10/11/77	
USED ON		CHECKED	
APPLICATION		DATE	
DO NOT SCALE DRAWING		SCALE	

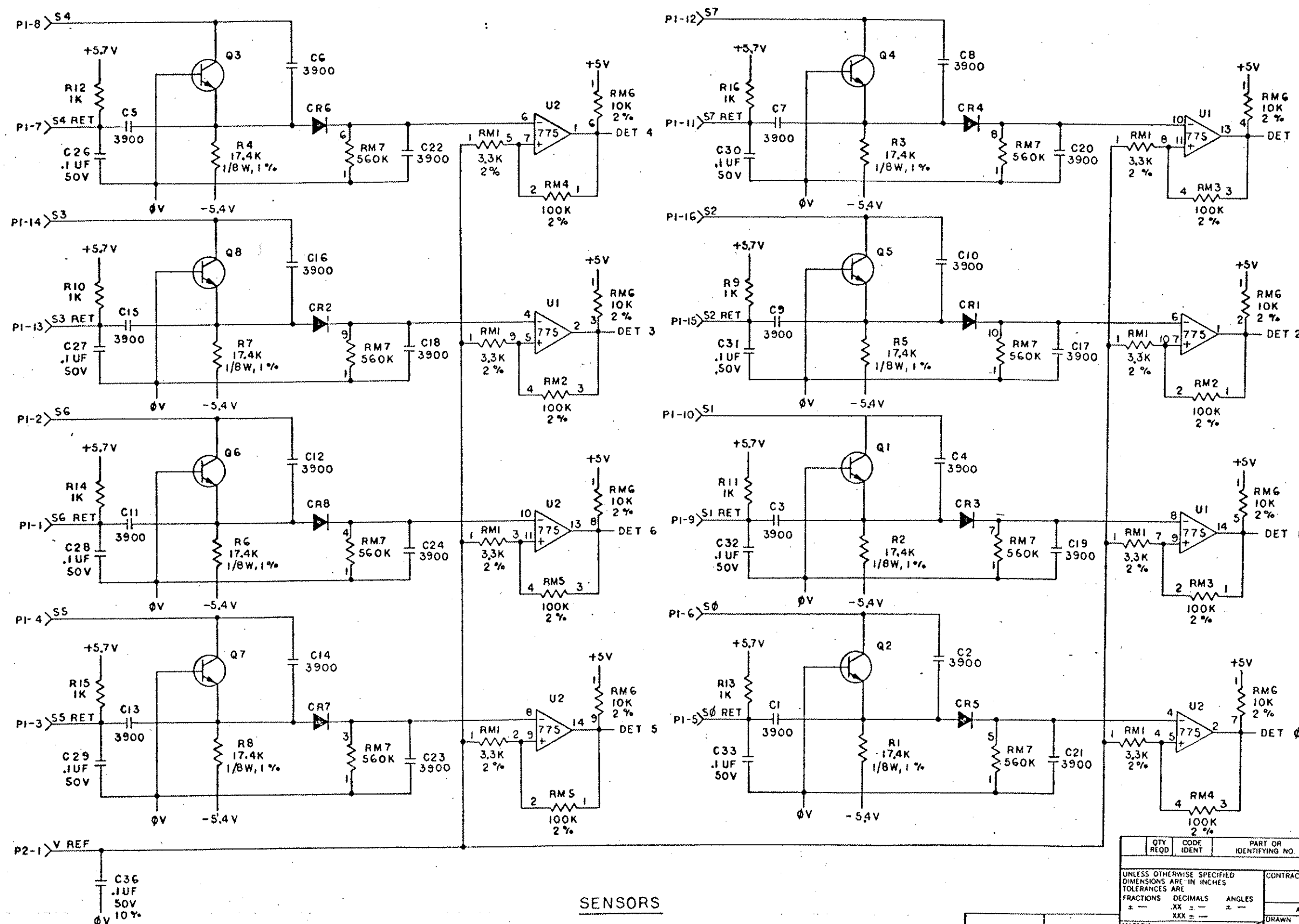
PARTS LIST			
SIZE	CODE IDENT NO	QUANTITY	DESCRIPTION
D	014-12151		SCHEMATIC DIAGRAM, DETECTOR NOS. 1 AND 2
			LTR B



- 002

- NOTES: UNLESS OTHERWISE SPECIFIED

QTY REQD		CODE IDENT		PART OR IDENTIFYING NO		NOMENCLATURE OR DESCRIPTION			
				PARTS LIST					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE FRACTIONS DECIMALS ANGLES .1 .01 .001 .XX .XX .XX XXX .XX .XX				CONTRACT NO		 TECHNOLOGY MARKETING INC			
MATERIAL FINISH				APPROVALS		DATE		SCHEMATIC DIAGRAM, DETECTOR NO'S. 1 AND 2	
				DRAWN <u>W. R. Huff</u> CHECKED <u>FER</u>		<u>10/17/77</u> <u>1-2-78</u>			
NEXT ASSY USED ON APPLICATION				DO NOT SCALE DRAWING		SIZE D		CODE IDENT NO 014-12151	
						DRAWING NO 014-12151		LTR B	
						SCALE		SHEET 3 OF	

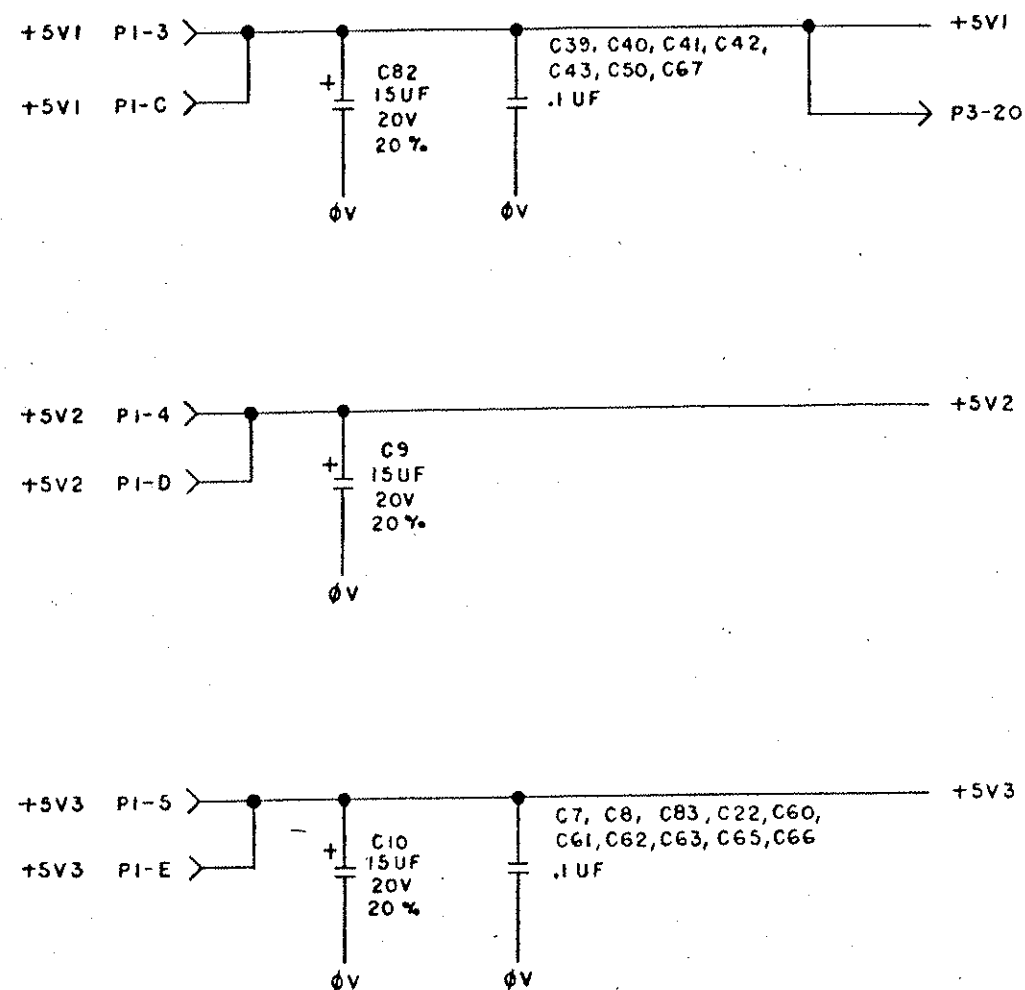


SENSORS
DETECTOR NO.2
-002

QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES ± — .XX ± — ± —			
MATERIAL		CONTRACT NO.	
FINISH		APPROVALS DATE	
NEXT ASSY USED ON		DRAWN W. R. 4011 10/17/77	
APPLICATION		CHECKED PBT 1-20-78	
DO NOT SCALE DRAWING.		SCALE	

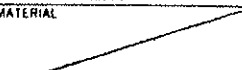
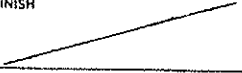
TECHNOLOGY MARKETING INC	
SCHEMATIC DIAGRAM, DETECTOR NOS. 1 AND 2	
SIZE D	CODE IDENT NO 014-12151
DRAWING NO. 014-12151	LTR B
SHEET 4 OF	

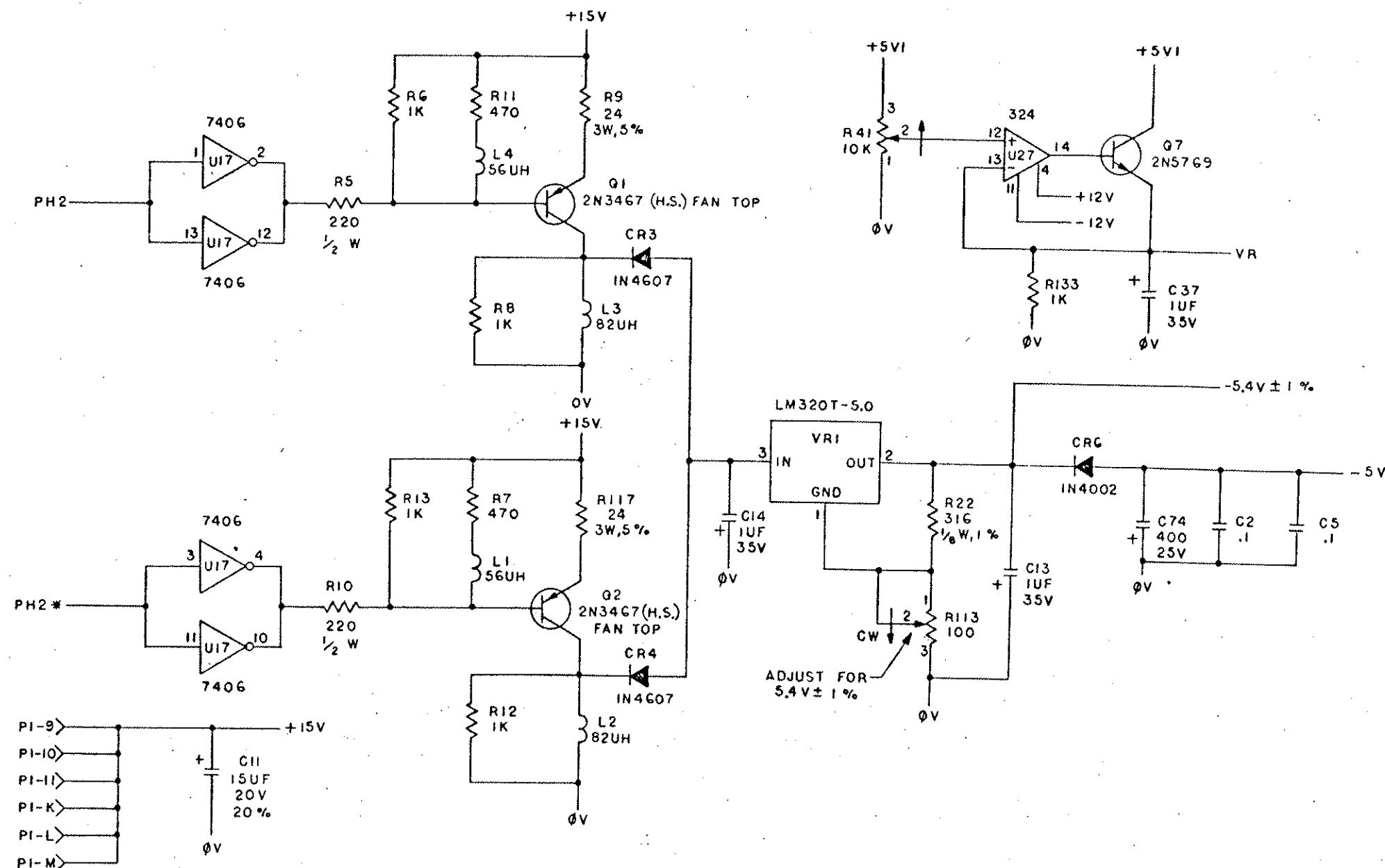
REVISIONS				
ZONL	LTR	DESCRIPTION	DATE	APPROVED
	A	PRODUCTION REL ER24	1/24/78	
	B	REVISED PER ER47	3/13/78	
	C	REVISED PER ER62	4/21/78	
	D	REVISED PER ER84	5/22/78	



+5V DISTRIBUTION CHART		
+5V1	+5V2	+5V3
U29		U8
U38		U9
U39		U10
U42		U11
U43		U12
U44		U13
U45		U14
U55		U15
U56		U17
U57		U20
U58		U23
U59		U24
U60		U30
U61		U31
U62		U32
U68		U33
U69		U34
U70		U35
U71		U36
U72		U37
U73		U46
		U47
		U48
		U49
		U50
		U51
		U52
		U53
		U54

3. CAPACITANCE VALUES ARE IN MICROFAPADS, $\pm 10\%$, 50V
2. RESISTANCE VALUES ARE IN OHMS, $\pm 5\%$, $\frac{1}{4}$ W
1. FOR ASSEMBLY SEE OIO-12146-001
NOTES UNLESS OTHERWISE SPECIFIED

QTY REQD		CODE IDENT		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION				
						PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE FRACTIONS DECIMALS ANGLES ± — XX — ± — XXX —				CONTRACT NO		 TECHNOLOGY MARKETING INC				
MATERIAL  FINISH 				APPROVALS		DATE				
				DRAWN <i>W. R. + hff</i>		11/27/77				
				CHECKED 		1-16-78				
010-12146-001		4047				SIZE		CODE IDENT NO	DRAWING NO	LT
NEXT ASSY		USED ON				D			014-12146	D
APPLICATION				DO NOT SCALE DRAWING				SCALE —		SHEET 1 OF 14

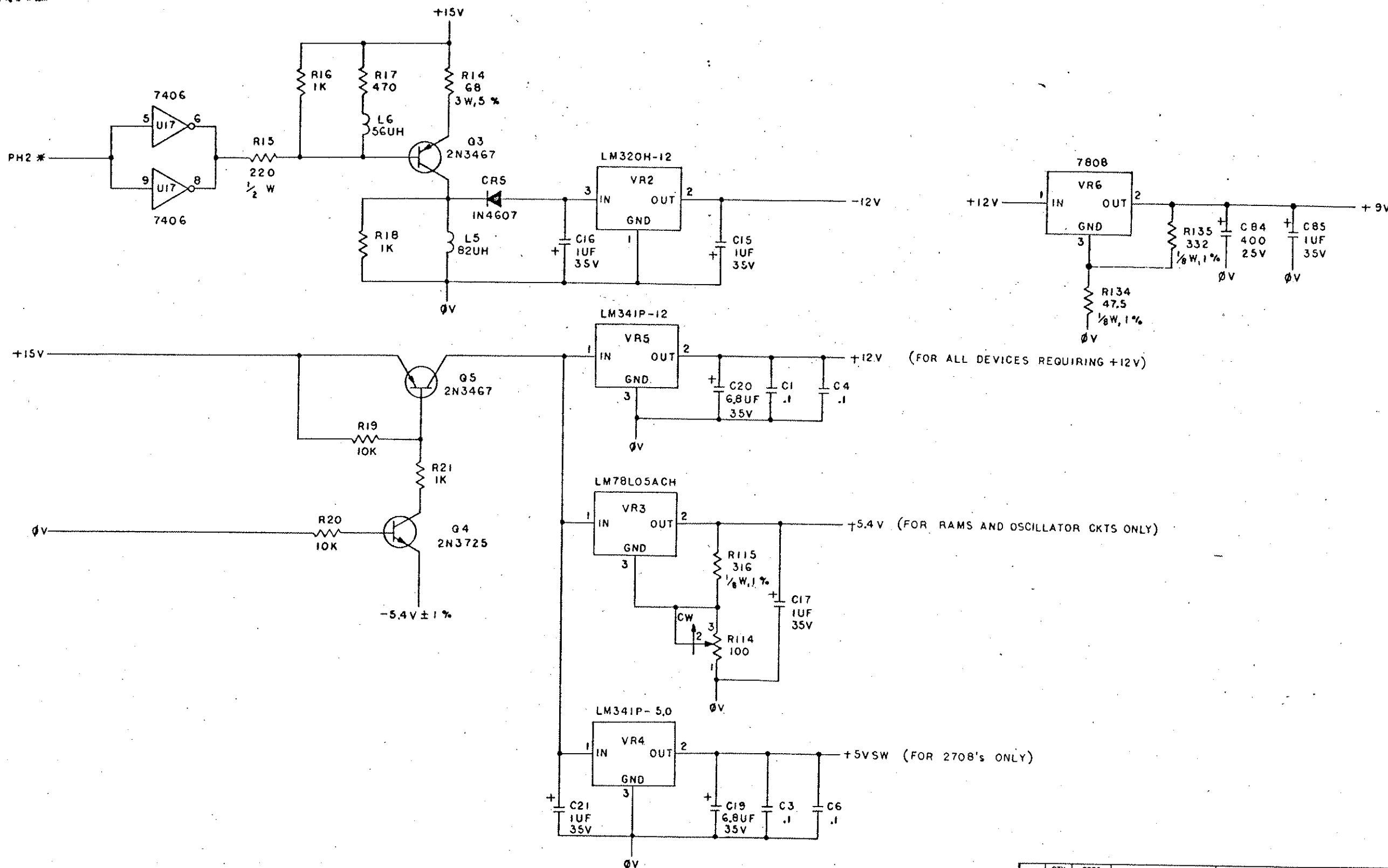


QTY REQD		CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE FRACTIONS DECIMALS ANGLES ± — .XX ± — ± — XXX ± —				PARTS LIST				
MATERIAL		CONTRACT NO		 TECHNOLOGY MARKETING INC SCHEMATIC DIAGRAM, PROCESSOR				
		APPROVALS	DATE					
		UKAWN	W. R. Huff					11-28-77
		CHECKED						
FINISH				SIZE		CODE IDENT NO.	DRAWING NO	
				D		014-12146		
DO NOT SCALE DRAWING				SCALE		SHEET 2		

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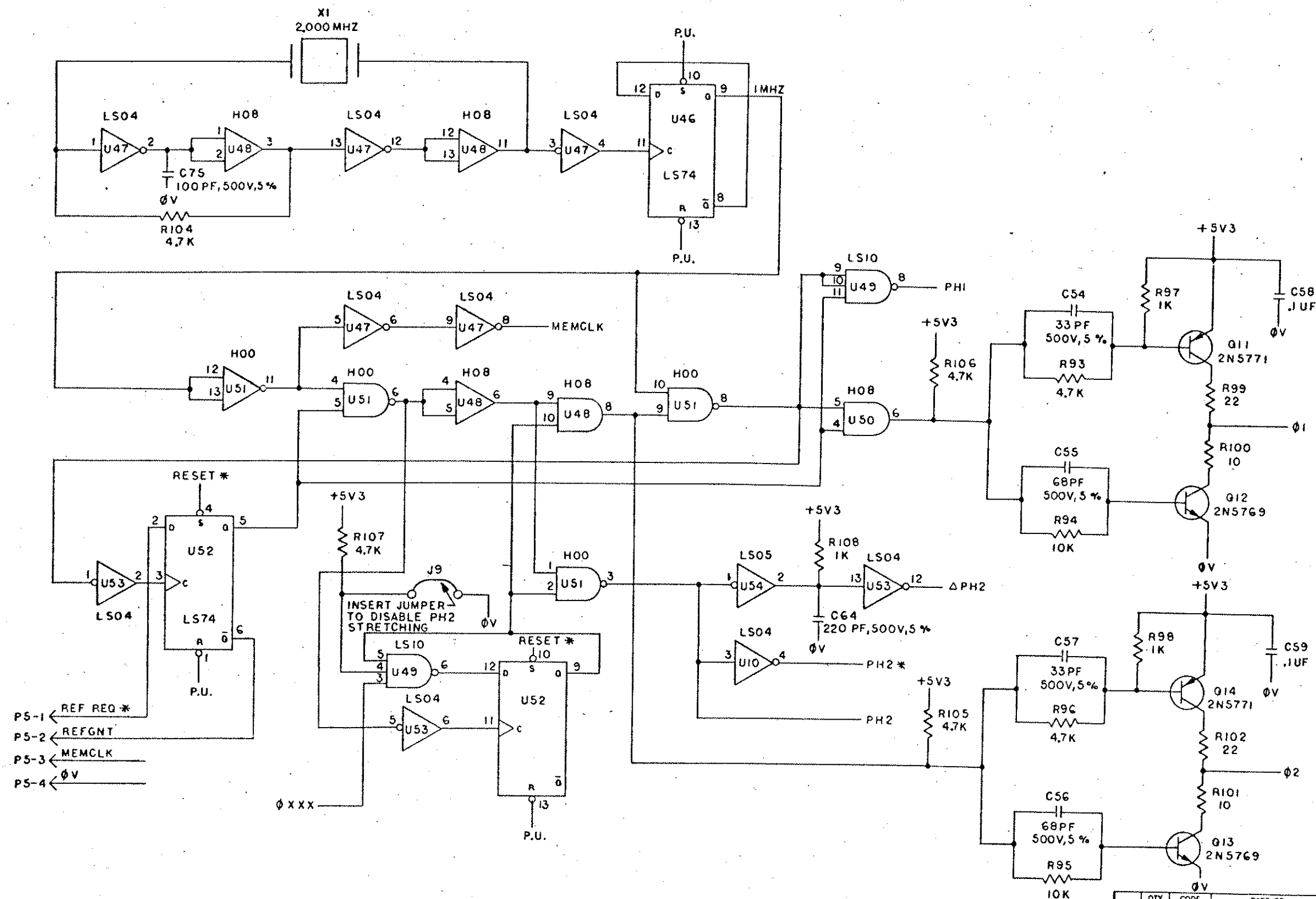
REVISIONS			
ZONE	LTR	DESCRIPTION	DATE
		SEE SHEET 1	



QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		CONTRACT NO.	
FRACTIONS	DECIMALS	ANGLES	
±	.XX	±	
	.XXX	±	
MATERIAL		APPROVALS	DATE
		GIVEN W. R. +uff	1/28/77
FINISH		CHECKED	
NEXT ASSY		USED ON	
APPLICATION		DO NOT SCALE DRAWING	
SIZE	CODE IDENT NO	DRAWING NO	LTR
D		014-12146	D
SCALE			SHEET 3 OF

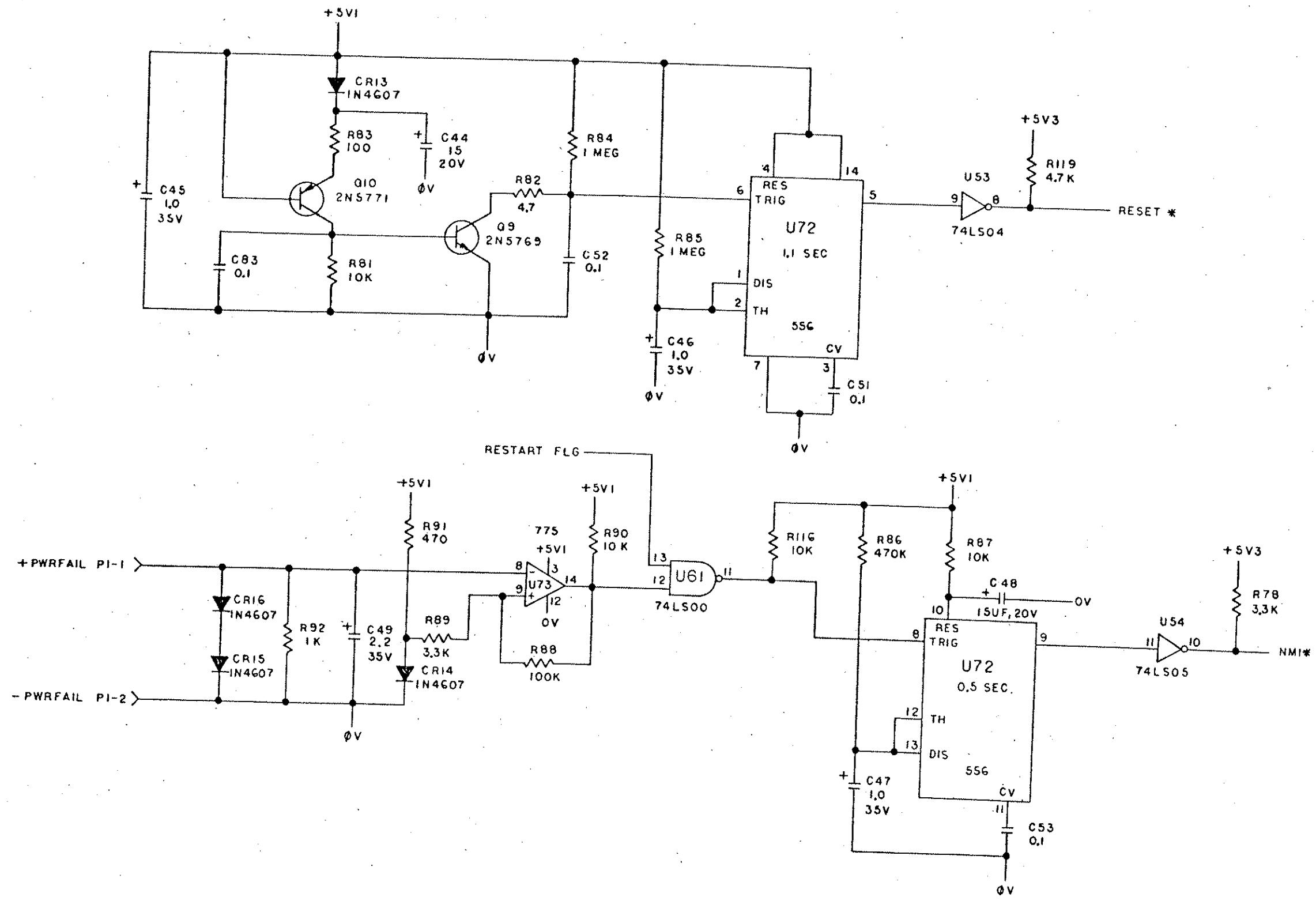
014-12146

A



QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION		
PARTS LIST					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE FRACTIONS DECIMALS ANGLES ± — — — XX ± — — — ± — — — XXX — — —		CONTRACT NO.			
MATERIAL		APPROVALS		DATE	
		DRAWN W. R. Tuff		11/28/77	
		CHECKED			
FINISH		SCHEMATIC DIAGRAM, PROCESSOR			
DO NOT SCALE DRAWING		SIZE D	CODE IDENT NO.	DRAWING NO. 014-12146	LTR D
		SCALE	SHEET 4 OF		

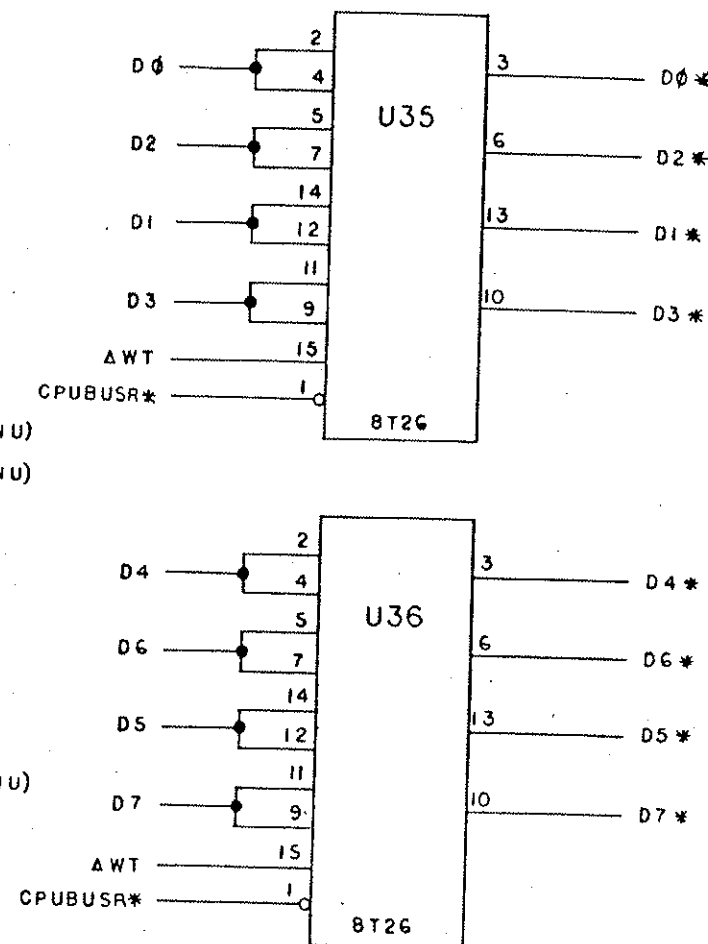
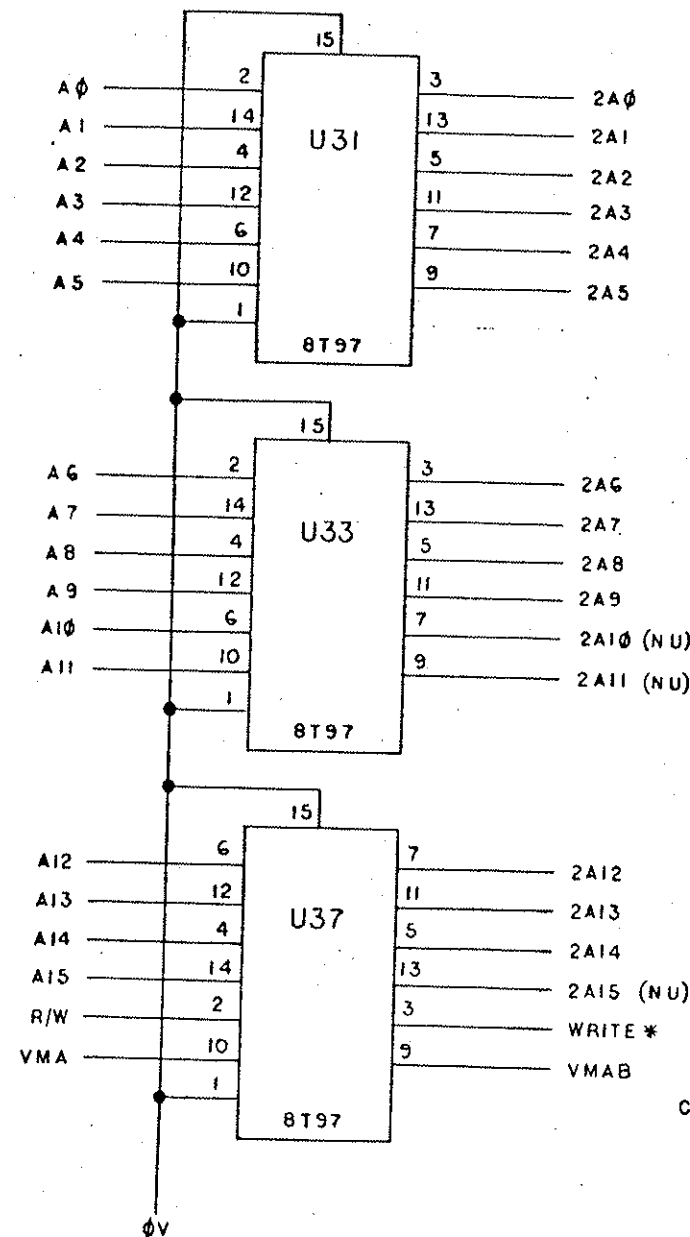
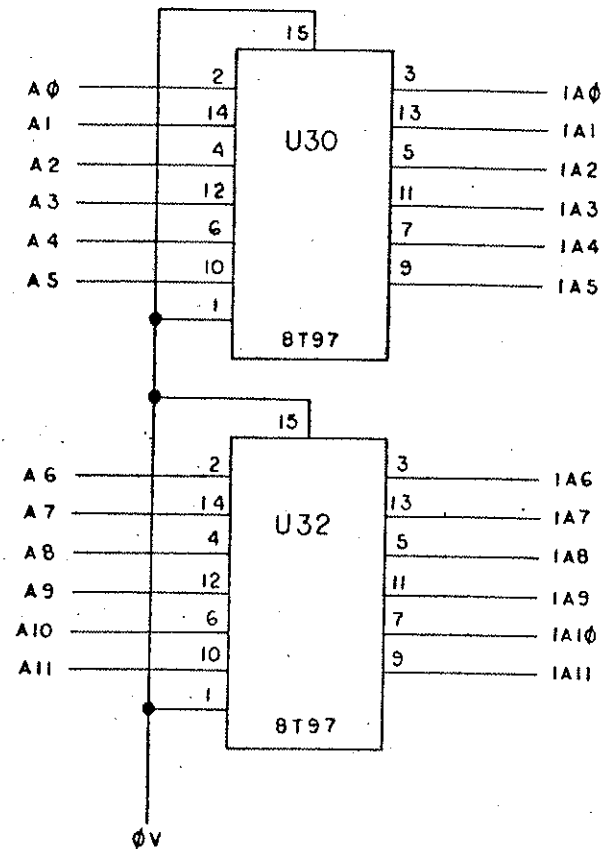
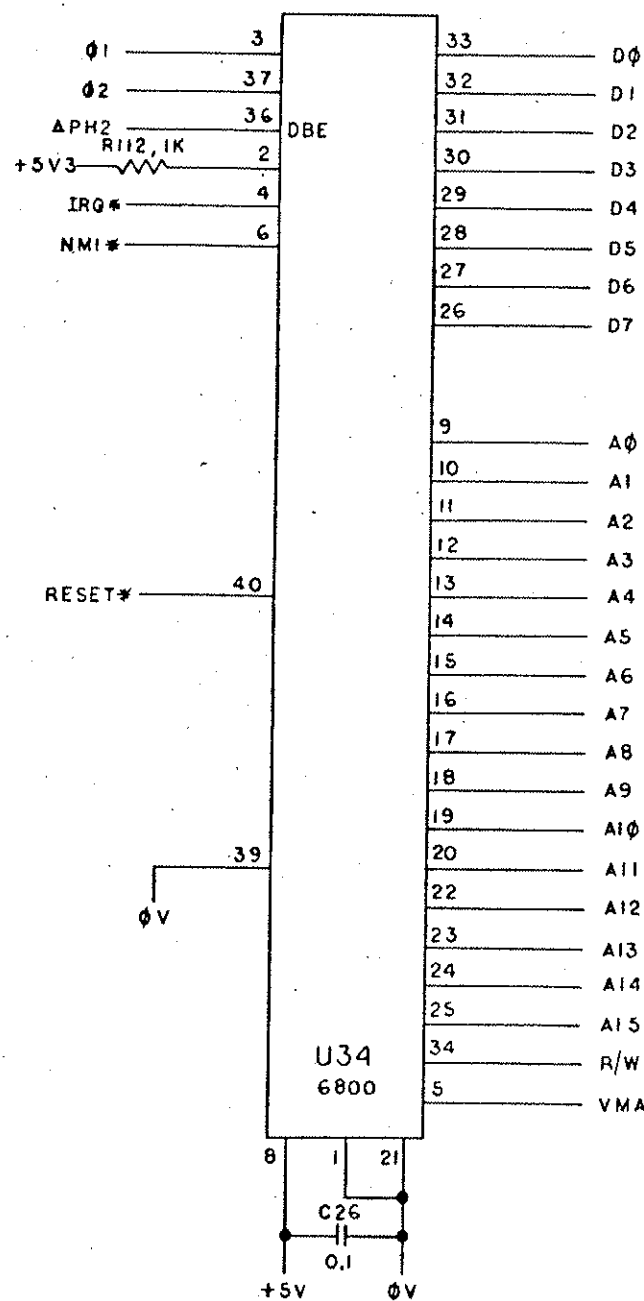
ZONE		LTR	REVISIONS		DATE	APPROVE
			DESCRIPTION			
			SEE SHEET 1			



QTY	REQD	CODE	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE FRACTIONS DECIMALS ANGLES * - .XX - ° - XXX -				
MATERIAL		CONTRACT NO.		APPROVALS DRAWN W.R. + J.H. 11-28-77 CHECKED
FINISH		DATE		
NEXT ASSY		USED ON		SCALE
APPLICATION		DO NOT SCALE DRAWING		
SIZE		CODE IDENT NO.	DRAWING NO.	LTR
D			014-12146	D
SHEET 5 OF				

SCHEMATIC DIAGRAM, PROCESSOR

ZONE		LTR	REVISIONS		DATE	APPROVED
			DESCRIPTION			
			SEE SHEET 1			



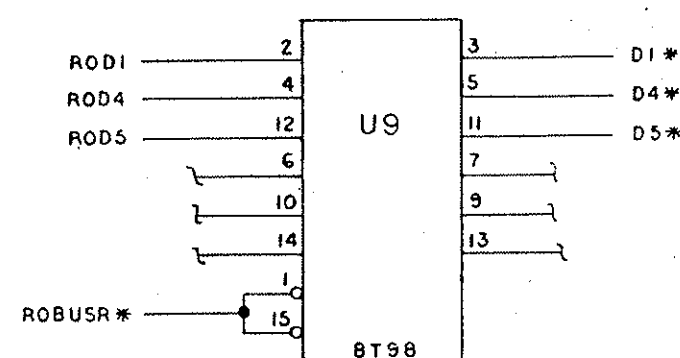
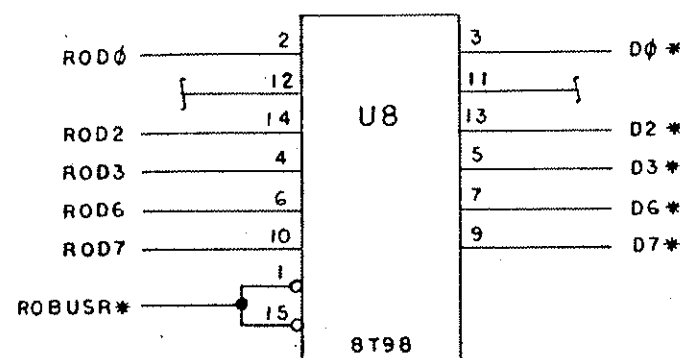
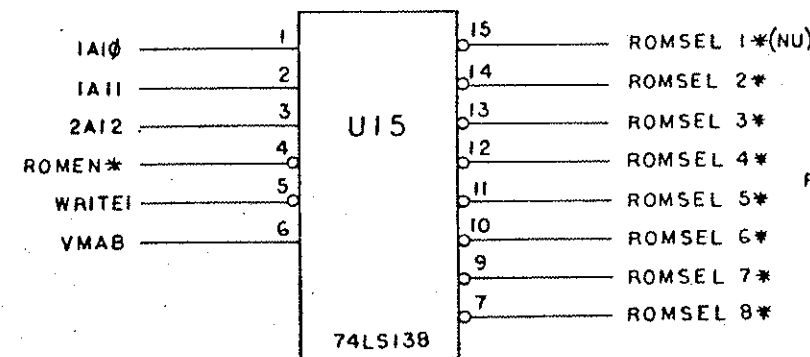
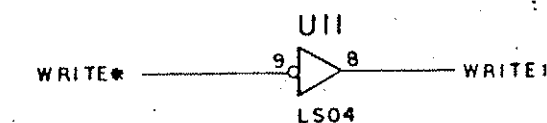
QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE FRACTIONS DECIMALS ANGLES XX ± .XXX ± .		CONTRACT NO.	DATE
MATERIAL		APPROVALS	DATE
FINISH		CHECKED	DATE
NEXT ASSY		USED ON	DATE
APPLICATION		DO NOT SCALE DRAWING	DATE
SCALE		SHEET 6 OF	

SCHEMATIC DIAGRAM, PROCESSOR			
SIZE	CODE IDENT NO	DRAWING NO	LTR
D		014-12146	D

8 7 6 5 4 3 2 1

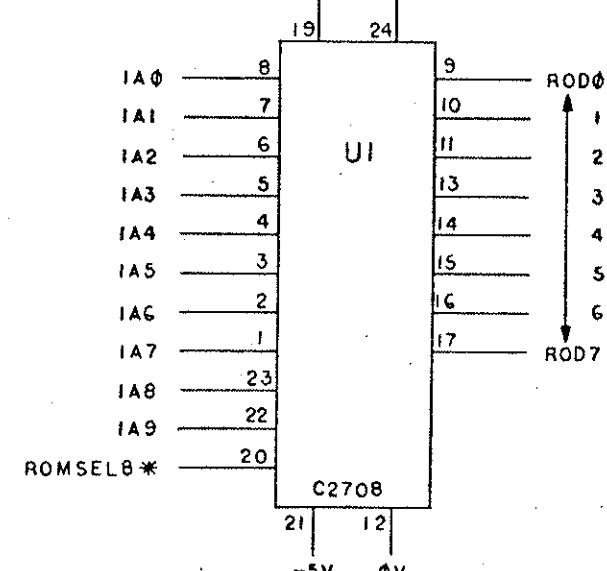
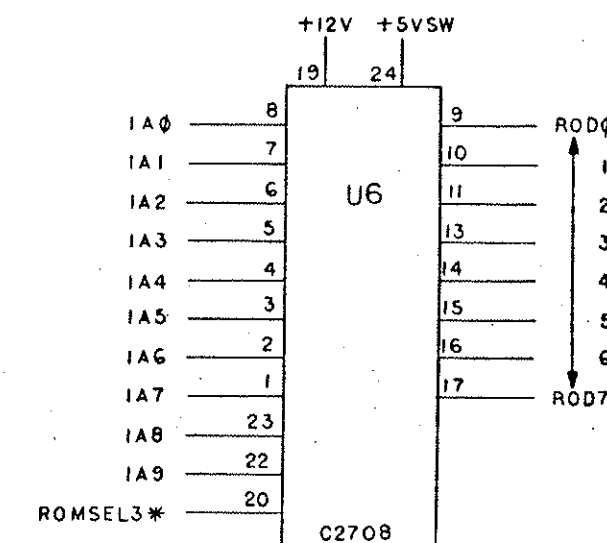
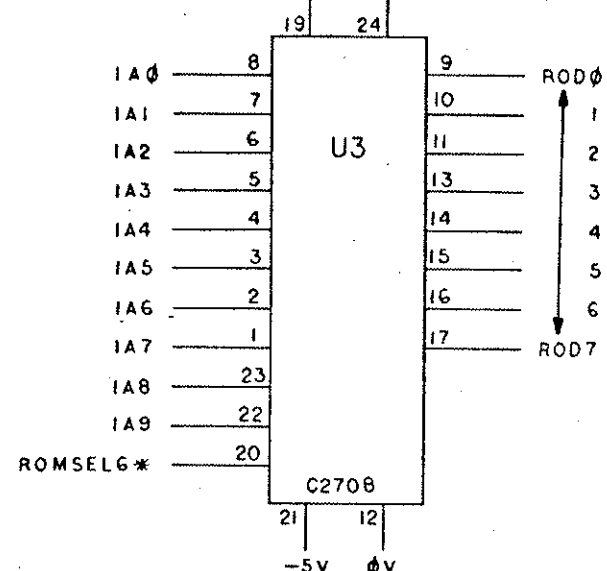
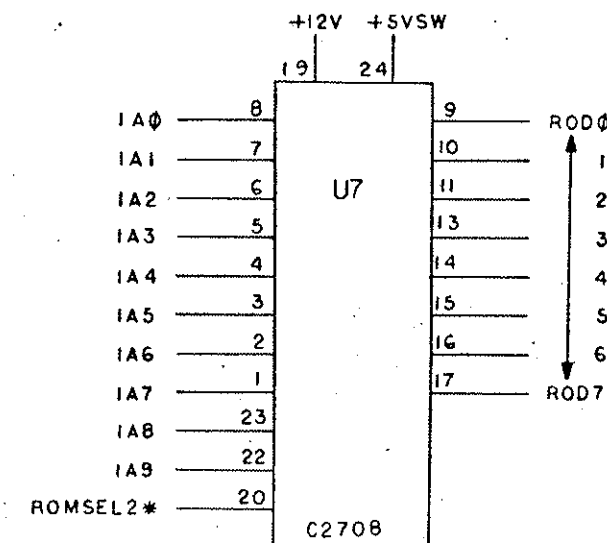
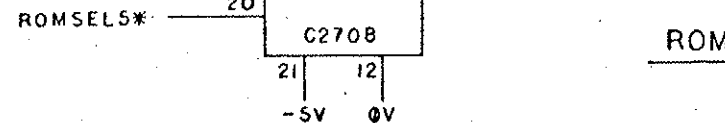
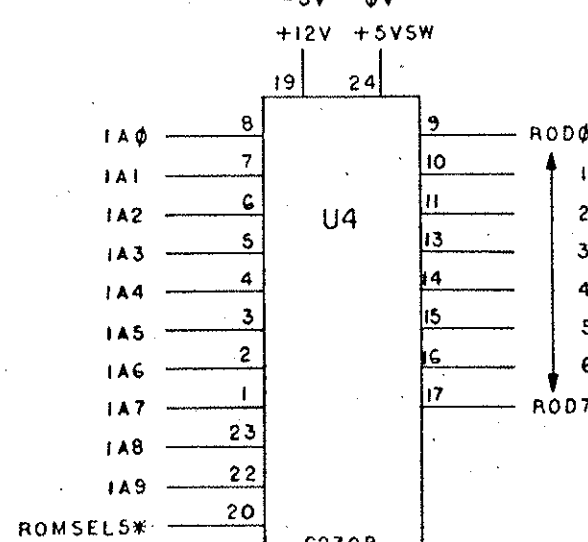
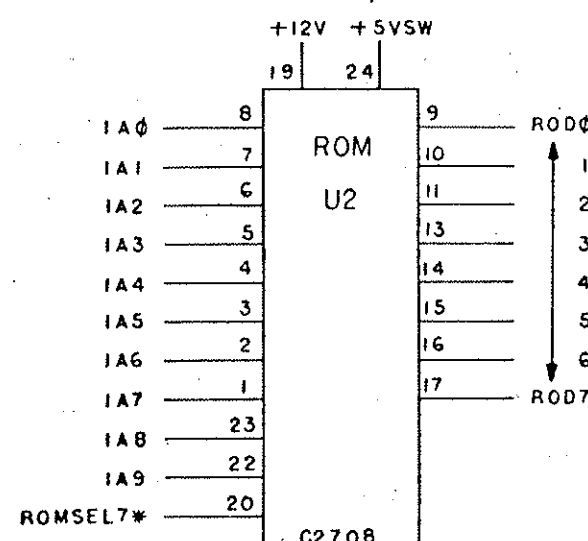
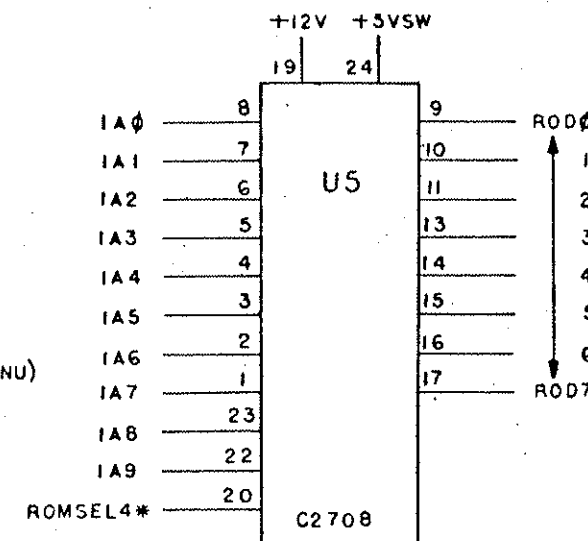
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REVISIONS				DATE	APPROVED
ZONE	LTR	DESCRIPTION			
		SEE SHEET 1			

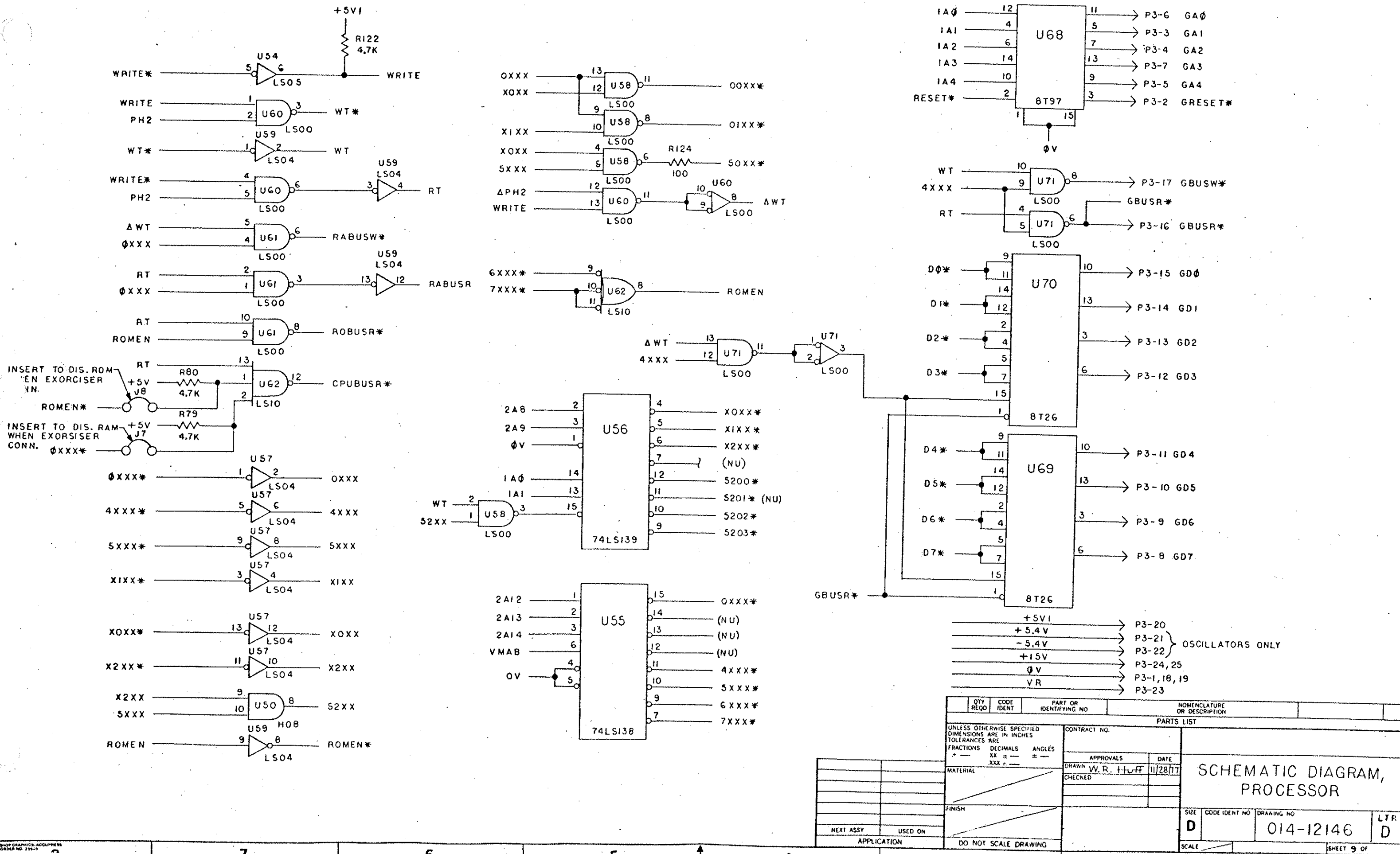


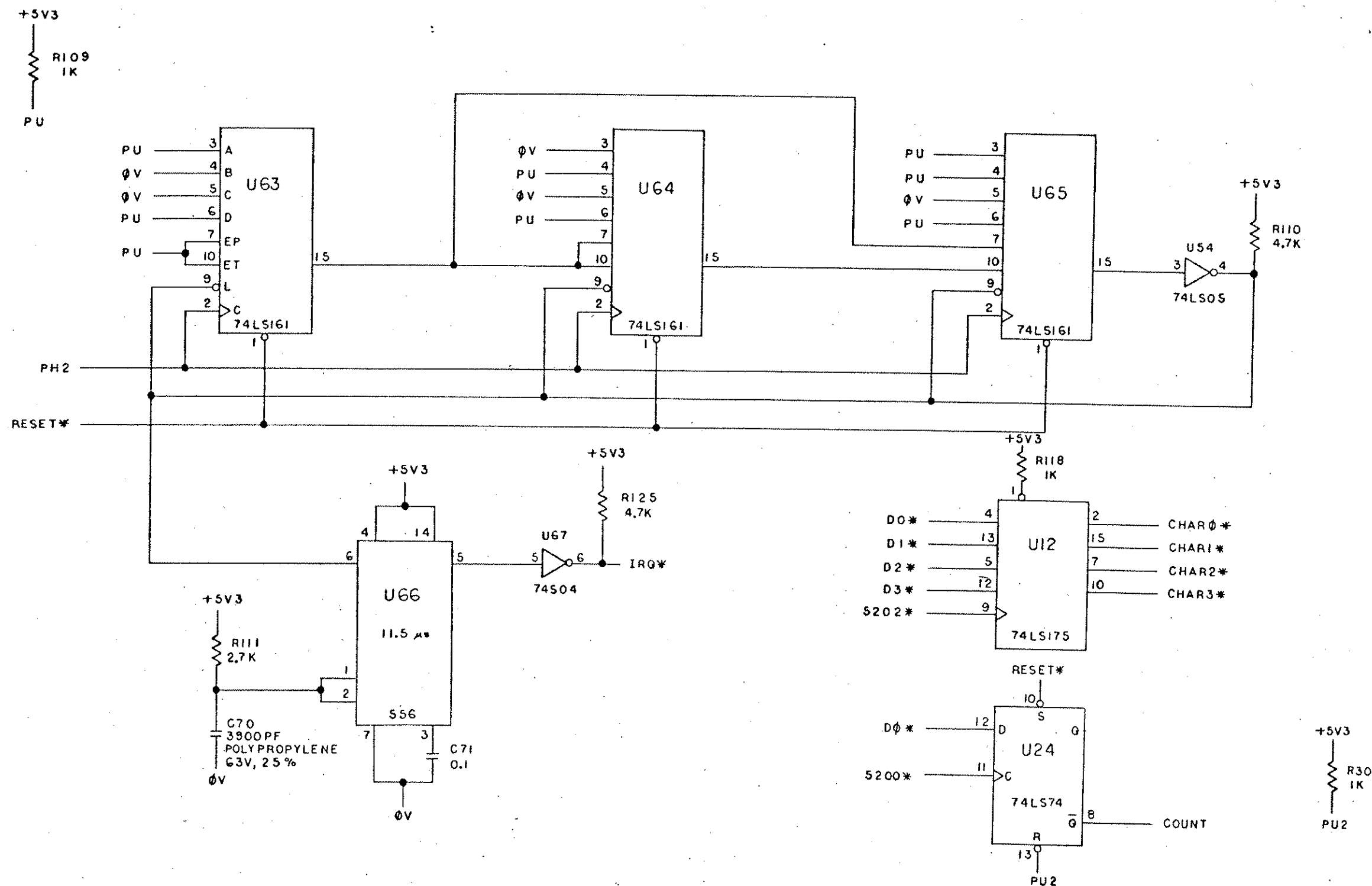
ROMSEL 1* 6000-63FF (NU)
2* 6400-67FF
3* 6800-6BFF
4* 6C00-6FFF
5* 7000-73FF
6* 7400-77FF
7* 7800-7BFF
8* 7C00-7FFF

ROM MEMORY EXPANDS FROM THE TOP DOWN

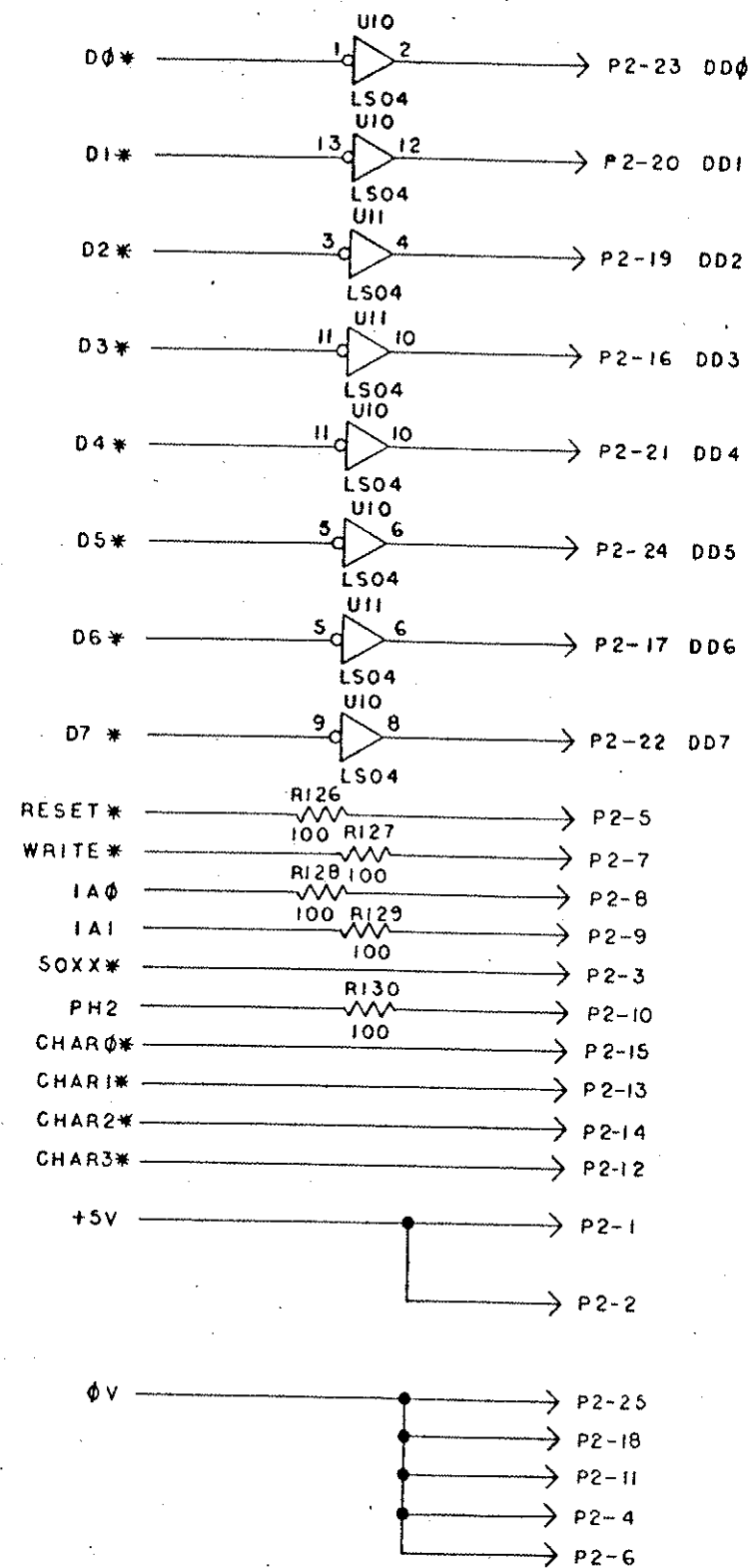
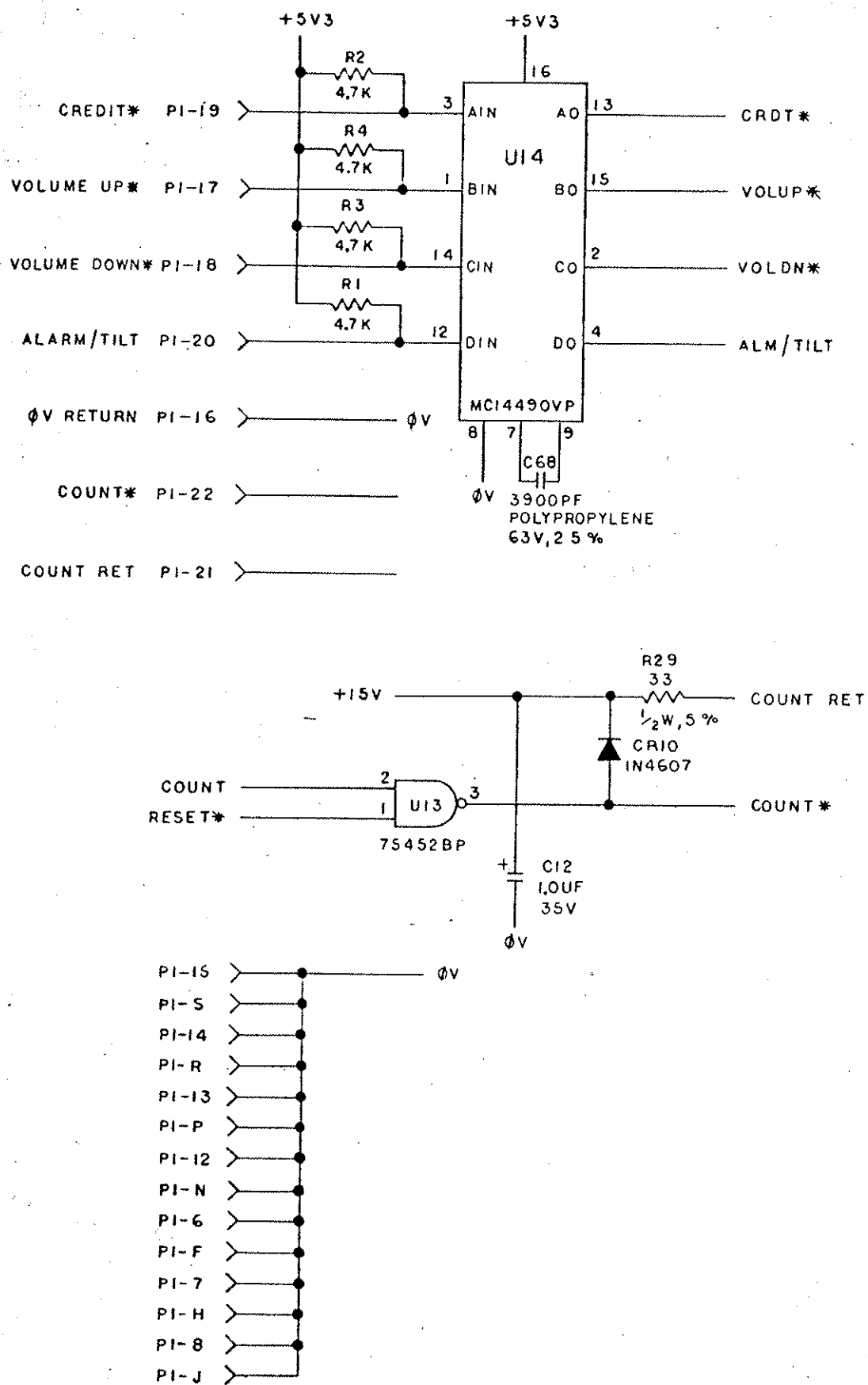


QTY	CODE	PART OR	NOMENCLATURE
REQD	IDENT	IDENTIFYING NO	OR DESCRIPTION
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES + .XX - .XX ± .XX			
CONTRACT NO		APPROVALS	
DRAWN W. R. Huff		DATE 1/28/77	
CHECKED			
MATERIAL		FINISH	
NEXT ASSY		USED ON	
APPLICATION		DO NOT SCALE DRAWING	
SIZE		CODE IDENT NO	
D		014-12146	
SCALE		SHEET 7 OF	





QTY REQD	CODE IDENT	PARTY OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE FRACTIONS DECIMALS ANGLES 1/16 .001 .001 1/32 .0005 .0005 1/64 .0002 .0002			
CONTRACT NO		DATE	
APPROVALS		DRAWN W. R. Huff 11/28/77	
CHECKED			
MATERIAL			
FINISH			
NEXT ASSY		USED ON	
APPLICATION		DO NOT SCALE DRAWING	
SIZE		CODE IDENT NO	
D		014-12146	
SCALE		DRAWING NO	
		1014-12146	
		SHEET 10/11	

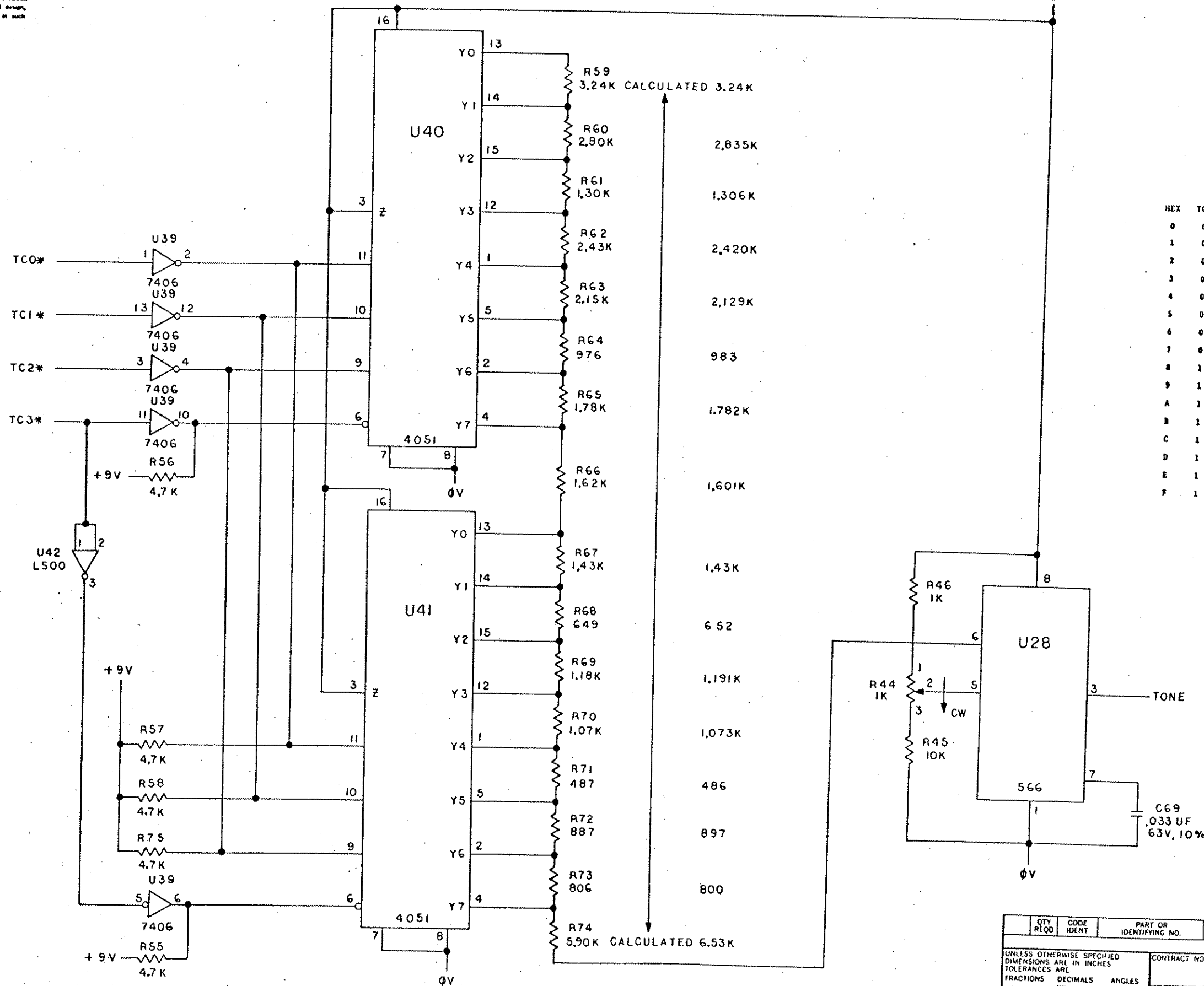


QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE FRACTIONS DECIMALS ANGLES ± .005 ± .005 ± .005			
MATERIAL		CONTRACT NO.	
FINISH		APPROVALS	
NEXT ASSY		DRAWN W.R. + + + / 11/23/77	
USED ON		CHECKED	
APPLICATION		DATE	
DO NOT SCALE DRAWING		SCHEMATIC DIAGRAM, PROCESSOR	
SIZE D	CODE IDENT NO.	DRAWING NO.	LTR D
SCALE		014-12146	
SHEET 11 OF			

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REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
		SEE SHEET 1		



HEX	TC4	TC3	TC2	TC1	f(HZ)	NOTE
0	0	0	0	0	387	G4
1	0	0	0	1	435	A4
2	0	0	1	0	488	B4
3	0	0	1	1	517	C5
4	0	1	0	0	581	D5
5	0	1	0	1	652	E5
6	0	1	1	0	691	F5
7	0	1	1	1	775	G5
8	1	0	0	0	870	A5
9	1	0	0	1	977	B5
A	1	0	1	0	1035	C6
B	1	0	1	1	1161	D6
C	1	1	0	0	1304	E6
D	1	1	0	1	1381	F6
E	1	1	1	0	1550	G6
F	1	1	1	1	1740	A6

TONE GEN

NOTE: WITH 0 HEX IN, SET POT FOR TONE = 387HZ
RESISTORS ARE 1/8 W, 1%, MF

QTY	CODE	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
REQD	IDENT		
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE FRACTIONS DECIMALS ANGLES .XX ± .XXX ± °			
MATERIAL		CONTRACT NO.	APPROVALS
FINISH		DRAWN W.R. HUFF	DATE 11/28/77
NEXT ASSY		CHECKED	
USED ON			
APPLICATION			
DO NOT SCALE DRAWING			
SIZE D	CODE IDENT NO.	DRAWING NO.	LTR D
SCALE		014-12146	
SHEET 12 OF			

SCHEMATIC DIAGRAM, PROCESSOR

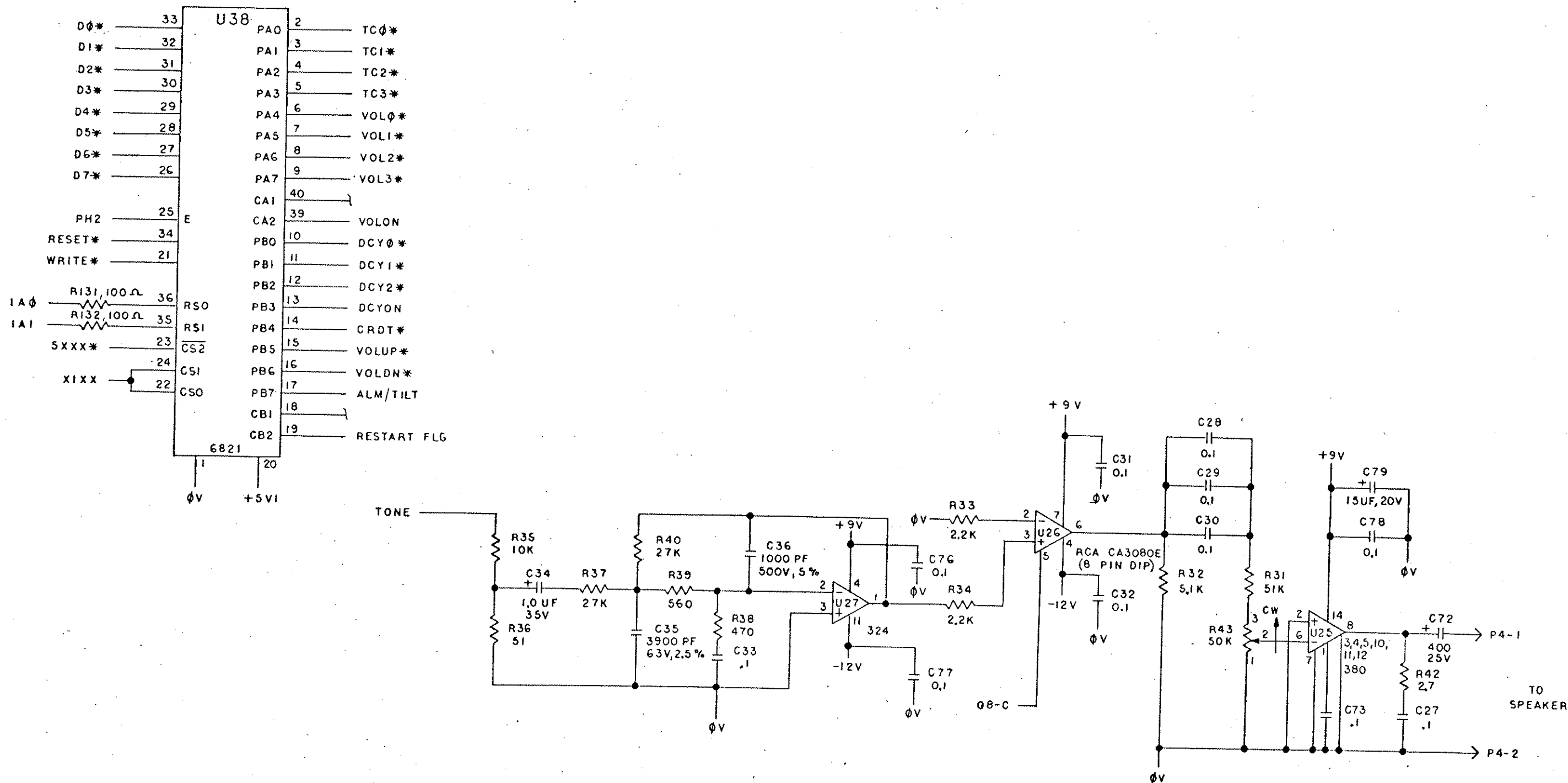
014-12146

D

SHEET 12 OF

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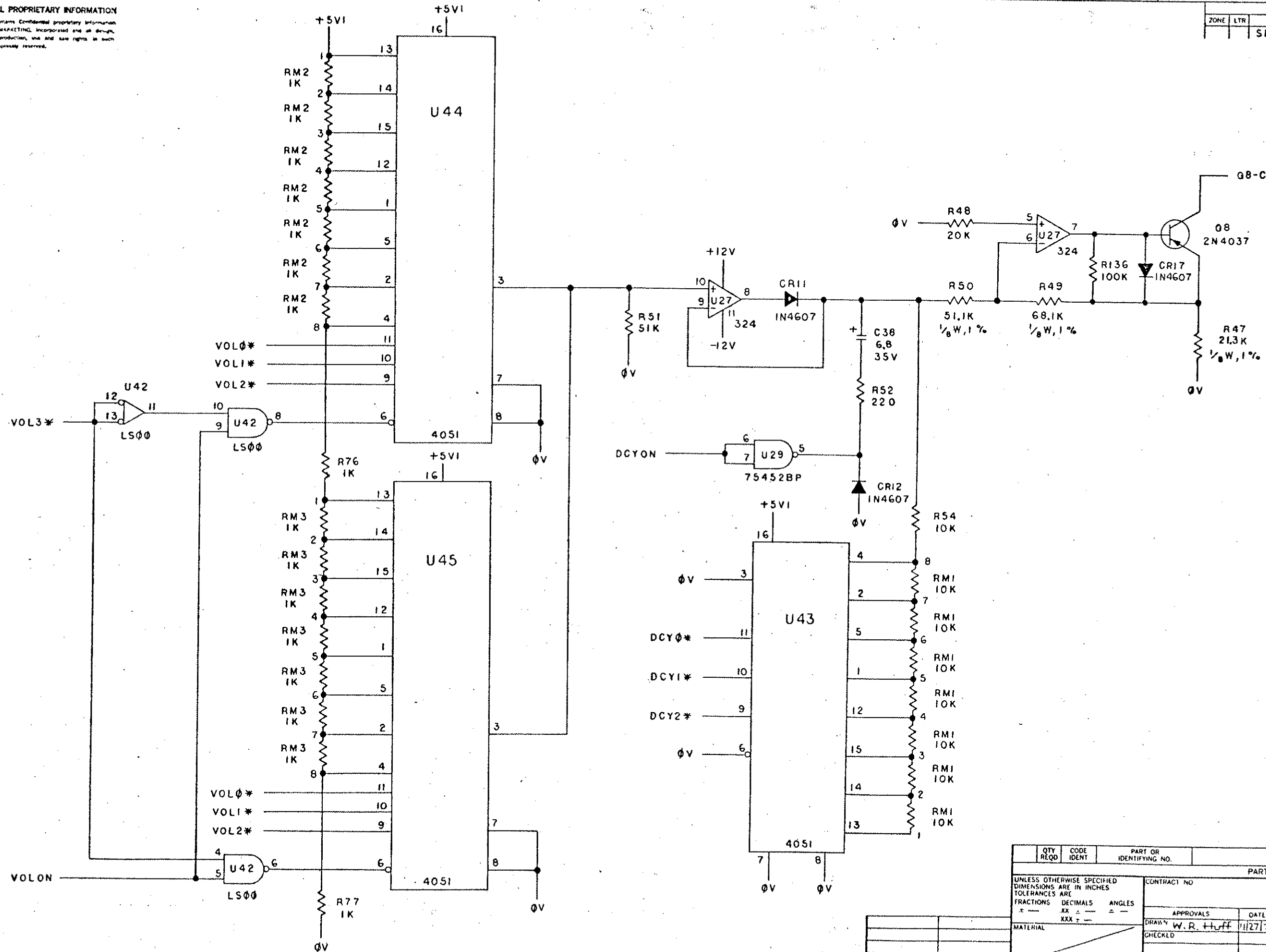
ZONE		LTR	REVISIONS		DATE	APPROVED
			DESCRIPTION			
			SEE SHEET 1			



QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE FRACTIONS DECIMALS ANGLES			
MATERIAL			
FINISH			
NEXT ASSY USED ON			
APPLICATION			
DO NOT SCALE DRAWING			
CONTRACT NO.			
APPROVALS			
DRAWN W.R. 11/28/17			
CHECKED			
DATE			
SCHEMATIC DIAGRAM, PROCESSOR			
SIZE D	CODE IDENT NO.	DRAWING NO.	LTR D
014-12146		SHEET 13 OF	

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ZONE		LTR	REVISIONS		DATE	APPROVED
			DESCRIPTION			
			SEE SHEET 1			



QTY	CODE	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
REQD	IDENT		

PARTS LIST	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE FRACTIONS DECIMALS ANGLES ± — — — ± — — — ± — — —	
CONTRACT NO.	
APPROVALS	DATE
DRAWN W.R. Huff	11/27/77
CHECKED	
MATERIAL	
FINISH	
NEXT ASSY	USED ON
APPLICATION	
DO NOT SCALE DRAWING	

SIZE	CODE IDENT NO	DRAWING NO	LTR
D		014-12146	D

SCALE	SHEET 14 OF

8

7

6

5

4

3

2

1

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REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	X1	PRE PRODUCTION REL.	8/12/77	
	X2	REVISED & REDRAWN	10/20/77	
	A	PRODUCTION REL. ER 23	1-12-78	

2. ALL DIODES IN4607

1. FOR ASSEMBLY SEE 010-12145

NOTES: UNLESS OTHERWISE SPECIFIED

QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± — XX ± — ± — XXX ± —			CONTRACT NO.	
MATERIAL			APPROVALS	DATE
FINISH			DRAWN W. R. Huff	10/20/77
DO NOT SCALE DRAWING			CHECKED <i>[Signature]</i>	1-25-78
APPLICATION			SCALE	
NEXT ASSY USED ON			SIZE D	CODE IDENT NO
			DRAWING NO	LTR
			014-12145	A
			SHEET 1 OF 2	

B

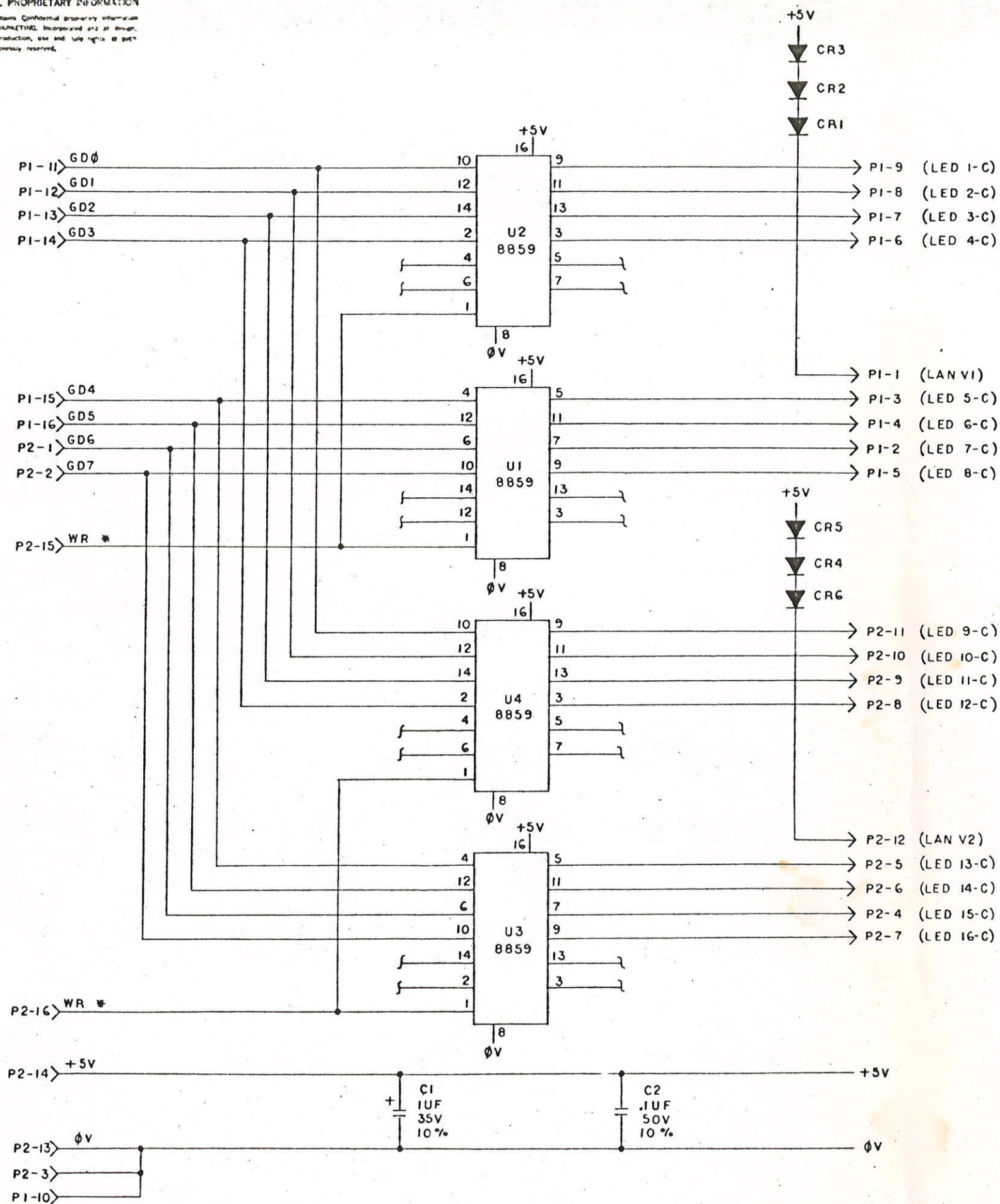
A

014-12145

A

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ZONE		LTR	REVISIONS		DATE	APPROVED
			DESCRIPTION			
			SEE SHEET 1			



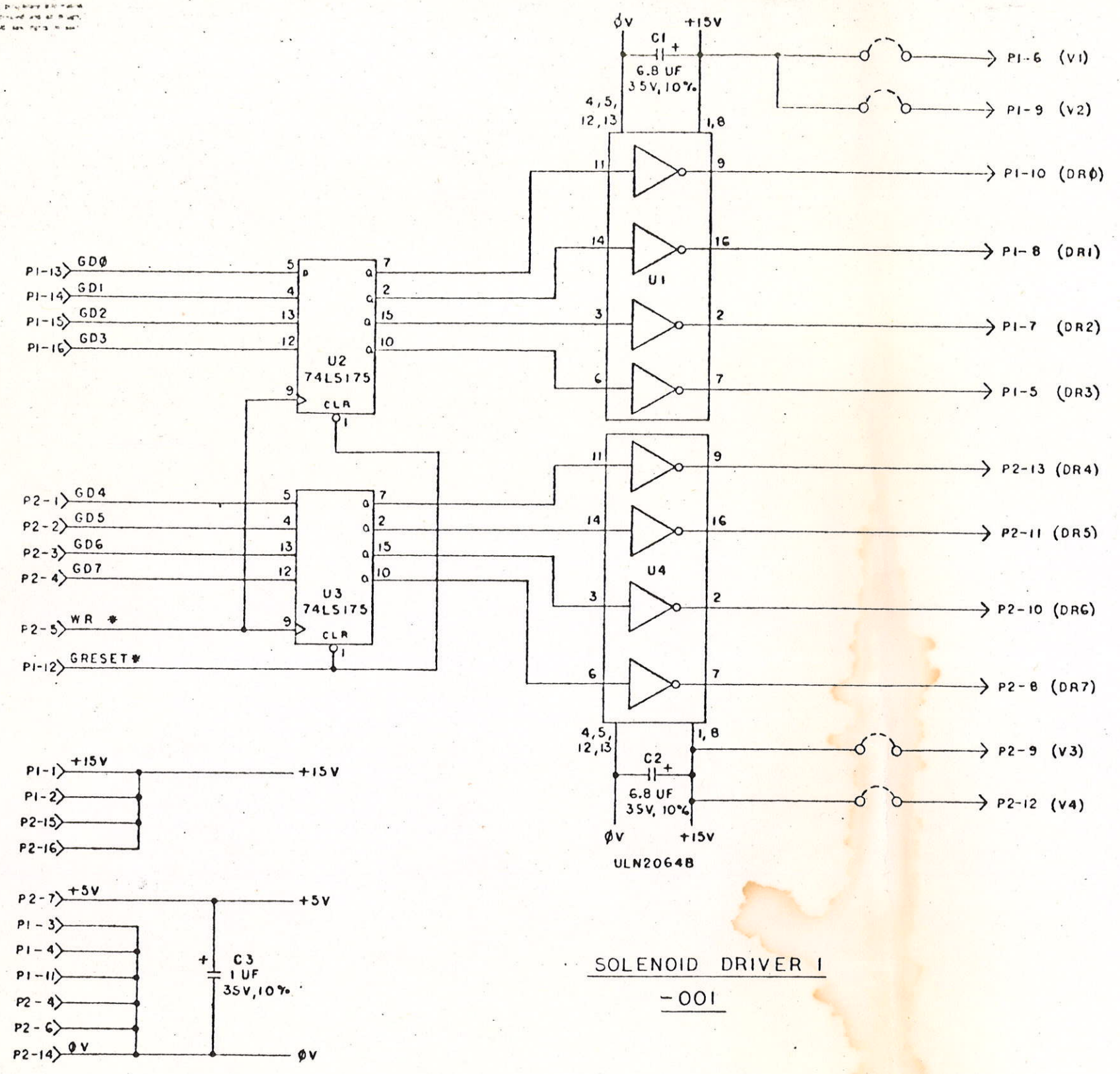
QTY REQD	CODE IDENT	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE FRACTIONS DECIMALS ANGLES ± — XX ± — ± — XXX ± —		CONTRACT NO	APPROVALS DATE
MATERIAL		DRAWN W. R. H. H.	10/20/77
FINISH		CHECKED	1-2-78
NEXT ASSY USED ON		SIZE CODE IDENT NO DRAWING NO LTR	
APPLICATION		D 014-12145 A	
DO NOT SCALE DRAWING		SCALE SHEET 2 OF 2	

TECHNOLOGY MARKETING INC

SCHEMATIC DIAGRAM, LED DRIVER

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ZONE	LTR	REVISIONS	DATE	APPROVED
X1		PRE PRODUCTION REL.	10/24/77	
X2		REVISED & REDRAWN	01/12/78	
A		PRODUCTION RELEASE ER23	11-12-78	
B		REVISED PER ER75	5-8-78	



SOLENOID DRIVER I
 -001

1. FOR ASSEMBLY SEE 010-12144-001
 NOTES: UNLESS OTHERWISE SPECIFIED

QTY REQD		CODE IDENT	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE		CONTRACT NO		
FRACTIONS	DECIMALS	ANGLES	APPROVALS	
±	XX	±	DATE	
XXX	---	---	DRAWN W.R. Huff 10/24/77	
MATERIAL		CHECKED 11-8-78		
FINISH		DATE 11-12-78		
DO NOT SCALE DRAWING		SCALE		
APPLICATION		SHEET 1 OF 2		

010-12144-001		4047	D		CODE IDENT NO	DRAWING NO	LTR
NEXT ASSY		USED ON				014-12144	B

TECHNOLOGY MARKETING INC
 SCHEMATIC DIAGRAM, SOLENOID DRIVER

