

digital

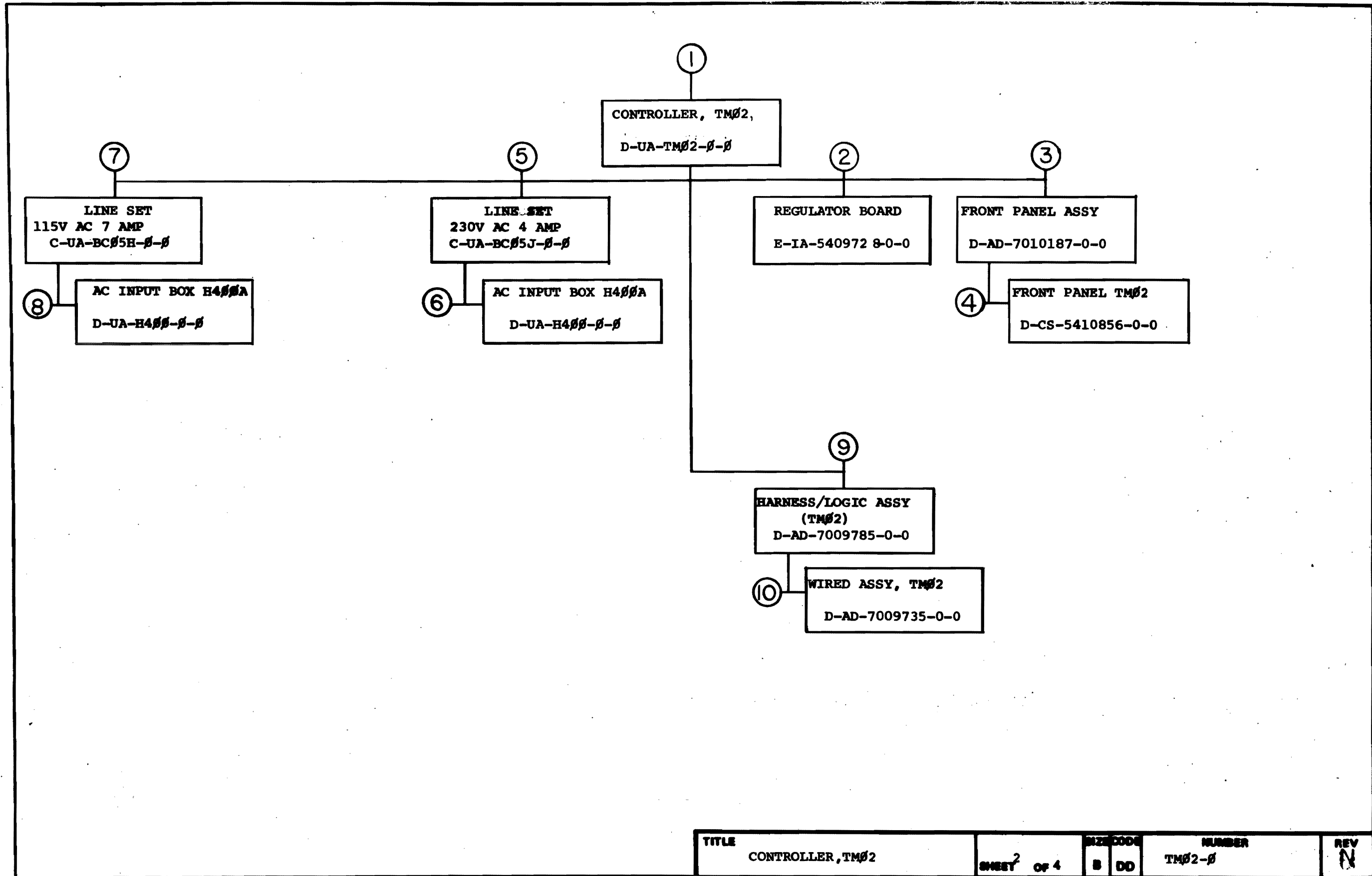
**TMO2**  
**Engineering Drawings**  
**Digital Equipment Corporation**

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TITLE	CONTROLLER, TMØ2	SHEET <sup>2</sup> of 4	SIZE CODE	NUMBER	REV
			B DD	TMØ2-Ø	N

CUSTOMER PRINT SET		ELECTRICAL					CUSTOMER PRINT SET		MECHANICAL						
1	2	MFG. SET	FIND NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE	1	2	MFG. SET	FIND NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
X	X		1		4	16/18 BIT FORMATTER					1	E	1	CONTROLLER TM02	
X	-				7	TU16 DATA SYNC						E	2	PARTS LIST	
X	-				5	TAPE CONTROL PHASE ENC.							1	LOGIC, BOX	
X	-				4	TAPE CONTROL NRZI							1	MOUNT, SELECT SWITCH	
X	-				6	MAINTENANCE REGISTER							1	DECAL, CONTROLLER	
X	-				7	TAPE CONTROL COMMON MODE							2	POWER SUPPLY	
X	X				5	16 BIT FIDDLER							1	CABLE FAN	
X	X				2	CONNECTOR TERMINATOR							1	BRACKET SHIPPING	
X	X				2	RECEIVER TERMINATOR							1	PLATE, PRESSURE	
X	X				2	RECEIVER TERMINATOR		X	X				1	HARNESS ASSY LOGIC	
X	X				11	MASS BUS INTERFACE							1	COVER SIDE	
X	X				2	MASS BUS TERMINAL							1	CARD GUIDE REWORK	
X	X					18 BIT FIDDLER							1	STOP, TILT (UPWARD)	
X	X				1	MODULE UTILIZATION									
X	X				2	MASS BUS TERMINAL									
X	X				4	MASS BUS RECEIVER									
X					2	MASS BUS TRANSCIEVER									
X	X		10		1	WIRED ASSY									
					1	AWT REVISION STATUS		X	X		2	E	1	REGULATOR BOARD	
C	C				1	WIRE LIST		X	X					REGULATOR BOARD	
					47	TM02 ENGINEERING SPECIFICATION							1	#1 THERMAL STRAP	
						ON LINE CHECKOUT PROCEEDURE							1	#2 THERMAL STRAP	
						ACCEPTANCE PROCEEDURE							1	HOLDER, CAPACITOR	
						CONVERSION PROCEDURE							1	CONTACT, COMMON CAPACITOR	
-	X		1		7	TU45 DATA SYNC.							1	CONTACT, CAPACITOR	
-	X				5	TAPE CONTROL PHASE ENG.									
-	X				7	TAPE CONTROL COMMON MODE									
-	X				6	MAINTENANCE REGISTER									
X					4	TAPE CONTROL NRZI									

CUSTOMER PRINT SET CODES	X = PRINT OF DOCUMENT INCLUDED IN PRINT SET C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED	TITLE	SIZE CODE	NUMBER	REV
		16/18 BIT FORMATTER	B DD	TM02-0	N
			SHEET 3 OF 4		

CUSTOMER PRINT SET		MECHANICAL					CUSTOMER PRINT SET								
	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE		MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
		5	C-UA-BC05J-0-0		1	LINE SET 230V AC 4 AMP									
		6	D-UA-H400-0-0		1	AC INPUT BOX H400B									
			A-PL-H400-0-0		1	AC INPUT BOX									
			D-IA-5309845-0-0		1	BOX									
			C-MD-5309849-0-0		1	COVER									
			A-DC-5409900-0-0		1	POWER CONTROL (DECAL 230V)									
			C-IA-5409825-0-0		1	POWER CONTROL BOARD 230V									
		7	C-UA-BC05H-0-0		1	LINE SET 115V VAC 7 AMP									
		8	D-UA-H400-0-0		1	AC INPUT BOX, H400A									
			A-PL-H400-0-0		1	AC INPUT BOX									
			D-IA-5309845-0-0		1	BOX									
			C-MD-5309849-0-0		1	COVER									
			A-DC-5309899-0-0		1	POWER CONTROL DECAL 115V									
			C-IA-5409824-0-0		1	POWER CONTROL BOARD 115V									
		9	D-AD-7009785-0-0		1	HARNESS/LOGIC ASSY (TM02)									
			D-IA-7011738-0-0	1	1	HARNESS/LOGIC (TM02)									
		10	D-AD-7009735-0-0	B	1	WIRED ASSY, TM02									
			1211439		1	LOGIC FRAME CASTING (11/05)									
			1210258		1	288 PIN CONN BLOCK									
			1211425		1	72 PIN CONN BLOCK									
			1210698		1	CARD GUIDE									

CUSTOMER PRINT SET CODES  
X = PRINT OF DOCUMENT INCLUDED IN PRINT SET  
C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT  
S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED

TITLE  
16/18 BIT FORMATTER

SHEET 4 of 4  
SIZE CODE  
B DD

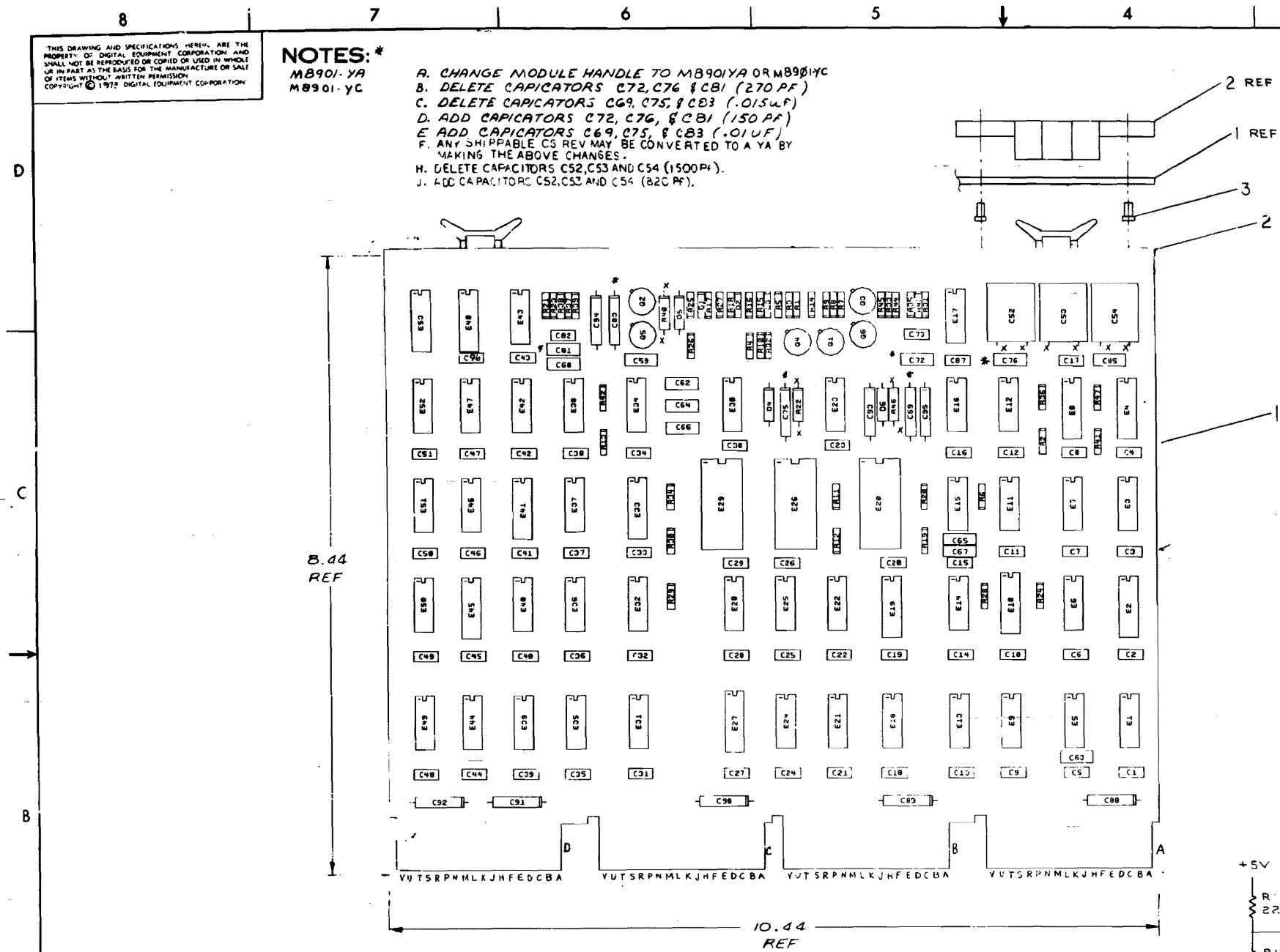
NUMBER  
TM02-0

REV  
N

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**NOTES:**  
 MB901-YA  
 MB901-YC

- A. CHANGE MODULE HANDLE TO MB901YA OR MB901YC
- B. DELETE CAPACITORS C72, C76 & C81 (270 PF)
- C. DELETE CAPACITORS C69, C75, & C83 (.015UF)
- D. ADD CAPACITORS C72, C76, & C81 (150 PF)
- E. ADD CAPACITORS C69, C75, & C83 (.01UF)
- F. ANY SHIPPABLE CS REV MAY BE CONVERTED TO A YA BY MAKING THE ABOVE CHANGES.
- G. DELETE CAPACITORS C52, C53 AND C54 (820 PF).
- H. ADD CAPACITORS C52, C53 AND C54 (820 PF).

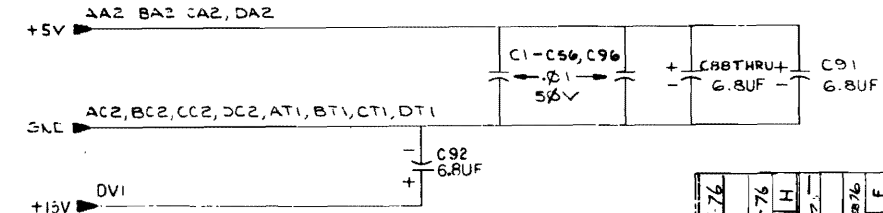


REF	REF	REF	REF	REF	X-Y COORDINATE HOLE LOCATION	K-CO-M8901-0-4	REF	
REF	REF	REF	REF	REF	ASSY/DRILLING HOLE LAYOUT	D-AH-M8901-0-5	REF	
REF	REF	REF	REF	REF	MODULE ECO HISTORY	B-MH-M8901-0-6	REF	
1	1	1	1	1	ETCHED CIRCUIT BOARD	5010467	1	
4	4	4	4	4	HANDLE, FLIP CHIP (MAGENTA)	9008337-6	2	
8	8	8	8	8	EYELET	9006732	3	
3	3	3	3	3	C63, C65, C67	CAP 220PF 100V D.M.	1000021	4
-	3	-	3	-	C72, C76, C81	CAP 270PF 100V D.M.	1000023	5
3	3	3	3	3	C59, C60, C85	CAP 470PF D.M.	1000024	6
3	3	3	3	3	C62, C64, C66	CAP 1000PF 100V D.M.	1000042	7
-	3	-	3	-	C69, C75, C83	CAP .015UF 100V 10% MYLAR	1002630	8
55	55	55	55	55	C1 THRU 51, C82, C73, C87, C96	CAP .01UF 50V	1001610	9
8	8	8	8	8	C88-C95	CAP 6.8UF 35V 10%	1005306	10
-	3	-	3	-	C52, C53, C64	CAP 1500PF 100V 5% D.M.	1002428	11
3	-	3	-	3	C72, C76, C81	CAP 150PF 100V 5% D.M.	1000019	12
3	3	3	3	3	D1, D2, D3	DIODE D664	1100114	13
3	3	3	3	3	D4, D5, D6	DIODE IN752A 5.6V 5% ZENER	1102808	14
9	9	9	9	9	R4, R5, R13, R15, R18, R24, R25, R28, R34	RES 100 1/4W 5%	1300229	15
4	4	4	4	4	R11, R3, R16, R26	RES 220 1/4W 5%	1300271	16
1	1	1	1	1	R12	RES 330 1/4W 5%	1300295	17
3	3	3	3	3	R1, R17, R27	RES 390 1/4W 5%	1300309	18
6	6	6	6	6	R2, R19, R29, R32, R39, R45	RES 470 1/4W 5%	1300316	19
6	6	6	6	6	R6, R14, R10, R30, R35, R42	RES 1K 1/4W 5%	1300365	20
3	3	3	3	3	R9, R23, R33	RES 2.7K 1/4W 5%	1300426	21
3	3	3	3	3	R36, R41, R47	RES 47K 1/4W 5%	1302177	22
3	3	3	3	3	R22, R40, R45	RES 120 1/2W 5%	1300243	23
3	-	3	-	3	C69, C75, C83	CAP .01UF 100V 10% MYLAR	1005784	24
3	-	3	-	3	C52, C53, C54	CAP, 820 PF 100V 5%	1000027	25
3	3	3	3	3	R8, R87, R43	RES 4.7K 1/4W 5%	1300447	26
6	8	8	8	8	E6, 7, 11, 32, 37, 52, 46, 40	IC 7474	1905547	27
1	2	1	2	2	E25, E48	IC 7400	1905575	28
2	2	2	2	2	E21, E89	IC 7450	1905580	29
2	2	2	2	2	E33, E41	IC 7476	1905585	30
4	4	4	4	4	E18, E36, E44, E49	IC 7473	1905587	31
4	4	4	4	4	E9, E35, E24, E28	IC 7401	1905590	32
2	2	2	2	2	E22, E50	IC 7404	1909686	33
1	1	1	1	1	E30	IC 8242	1909712	34
2	2	2	2	2	E5, E15	IC 7405	1909930	35
2	2	2	2	2	E4, E8	IC 74123	1910436	36
2	2	2	2	2	E14, E31	IC 7433	1910011	37
3	3	3	3	3	E2, E27, E45	IC 74193	1910018	38
6	6	6	6	6	E3, E12, E42, E1, E34, E47	IC 74137	1910035	39
-	-	2	2	2	E13, E51	IC 7408	1910155	40
1	1	1	1	1	E19	IC 74175	1910651	41
1	1	1	1	1	E10	IC 74174	1910652	42
2	2	2	2	2	E16, E38	IC 4024	1911038	43
3	3	3	3	3	E17, E23, E43	IC 4044	1911039	44
3	3	3	3	3	E20, E26, E29	IC 74172	1911293	45
3	3	3	3	3	E, E51, E53	IC 7408	1910155	46
6	6	6	6	6	Q1, Q2, Q3, Q4, Q5, Q6	TRANSISTOR DEC 65318	1509338	47
3	3	3	3	3	R44, R38, R10	RES. 330K 1/4 W 5%	1302091	48
3	3	3	3	3	R7, R21, R31	RES. 8.2 K 1/4 W 5%	1303179	49

IC TYPE	GND	+5V
7472	12	24
4024	3	13
7414	1	16
74175	8	14
7433	8	16
743	1	4
7476	13	5

GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE.

IC PIN LOCATIONS



H. DRAB  
 4-1-76  
 MB901-00008 H  
 R. MAC LEOD  
 MB901-00007 F  
 J. HESS  
 MB901-00006 E  
 J. HESS  
 MB901-00004 C  
 JOHN HESS  
 MB901-00001 B  
 CHANGE NO. REV

MB901-YA  
 MB901-YB  
 MB901-YA  
 MB901-YA

FIRST USED ON OPTION MODEL  
 TU16

ETCH BOARD REV D

DRY DATE NOV 6 78  
 ENG DATE 11/1/78  
 PRD DATE 11/1/78  
 PWD DATE 11/1/78  
 NEXT HIGHER ASSY

digital EQUIPMENT CORPORATION  
 MAYNARD, MASSACHUSETTS

TITLE DATA SYNC (DS1)

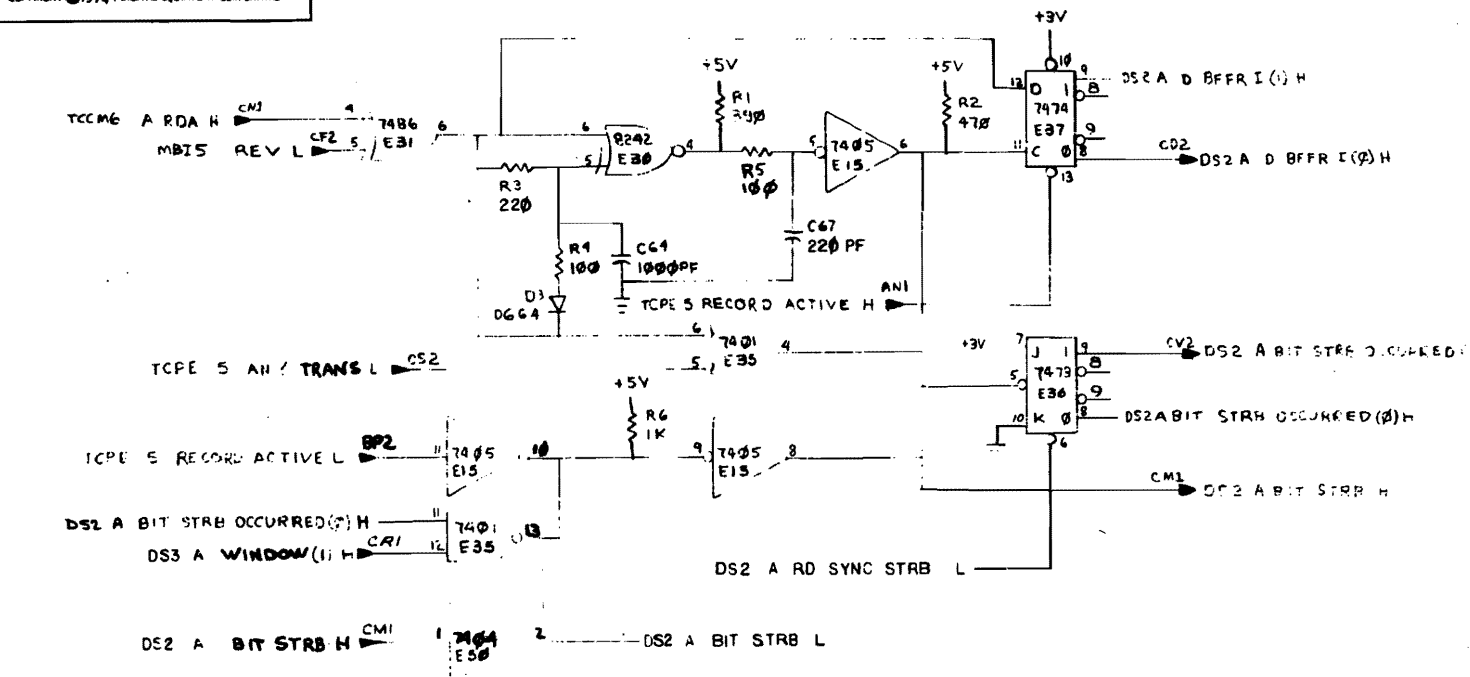
SIZE CODE DCS NUMBER M8901-0-1 REV H

SCALE 1 OF 7 SHEET 1 OF 7

SEMICONDUCTOR CONVERSION CHART

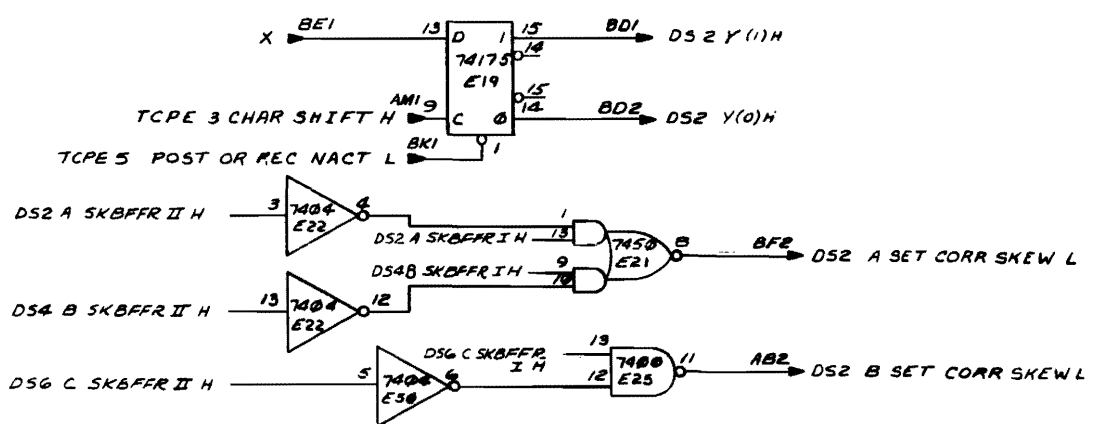
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BIT STROBE AND WINDOW

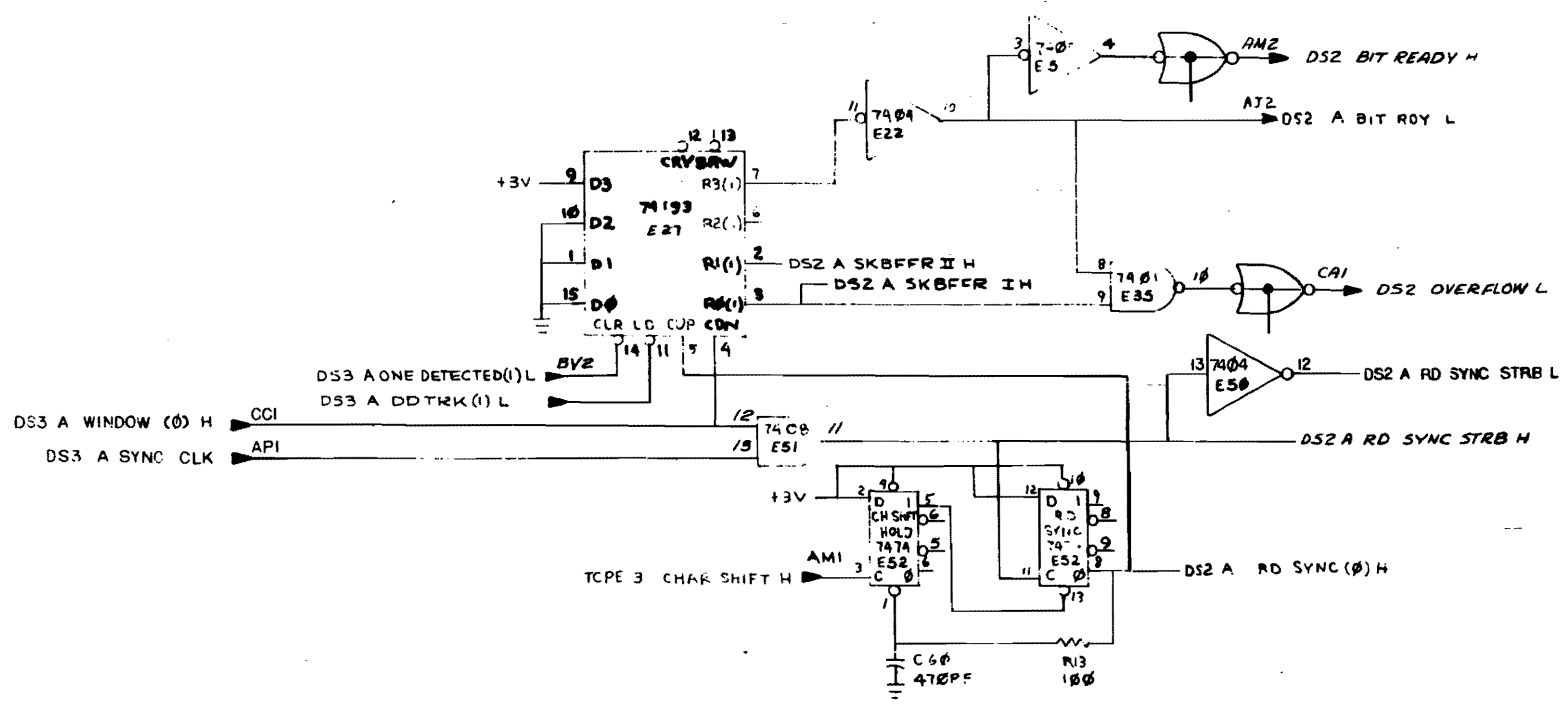


	SLOT 1	SLOT 2	SLOT 3
X	SINGLE DDTRK H		INC COND H
Y(1)H	CER 1(H)		INC DATA(1)H

USE X, Y, CHART TO DETERMINE INPUTS & OUTPUTS OF 74175 FLOP.



NOTE:  
 1. PREFIX 'A' IS TO BE INTERPRETED AS FOLLOWS:  
 MODULE IN SLOT 1 A IS BIT 2  
 MODULE IN SLOT 2 A IS BIT 2  
 MODULE IN SLOT 3 A IS BIT 2  
 EXAMPLE:  
 A RDA H - C01 N1 = RDA 2 H  
 A RDA H - C02 N1 = RDA 3 H  
 A RDA H - C03 N1 = RDA 7 H  
 2. M8901 MODULES ARE LOCATED IN SECTIONS C, D, E, F OF TM02 LOGIC. THEREFORE PINS IN SECTION A OF THE MODULE ARE LOCATED IN C ON THE BACKPLANE ETC.



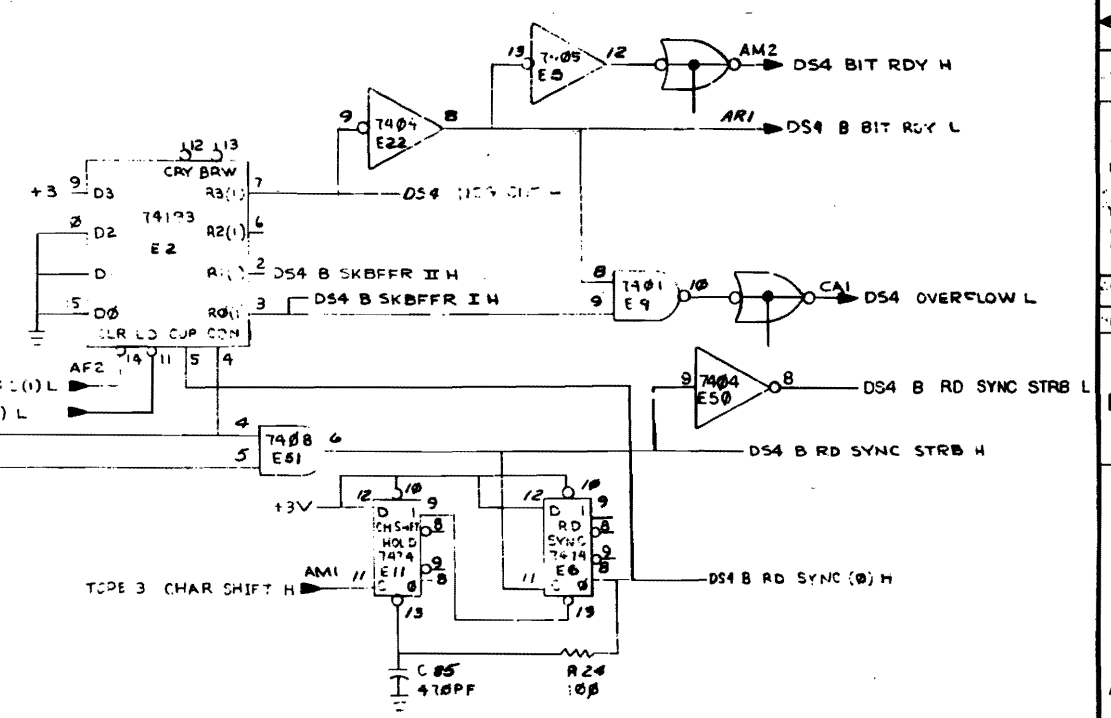
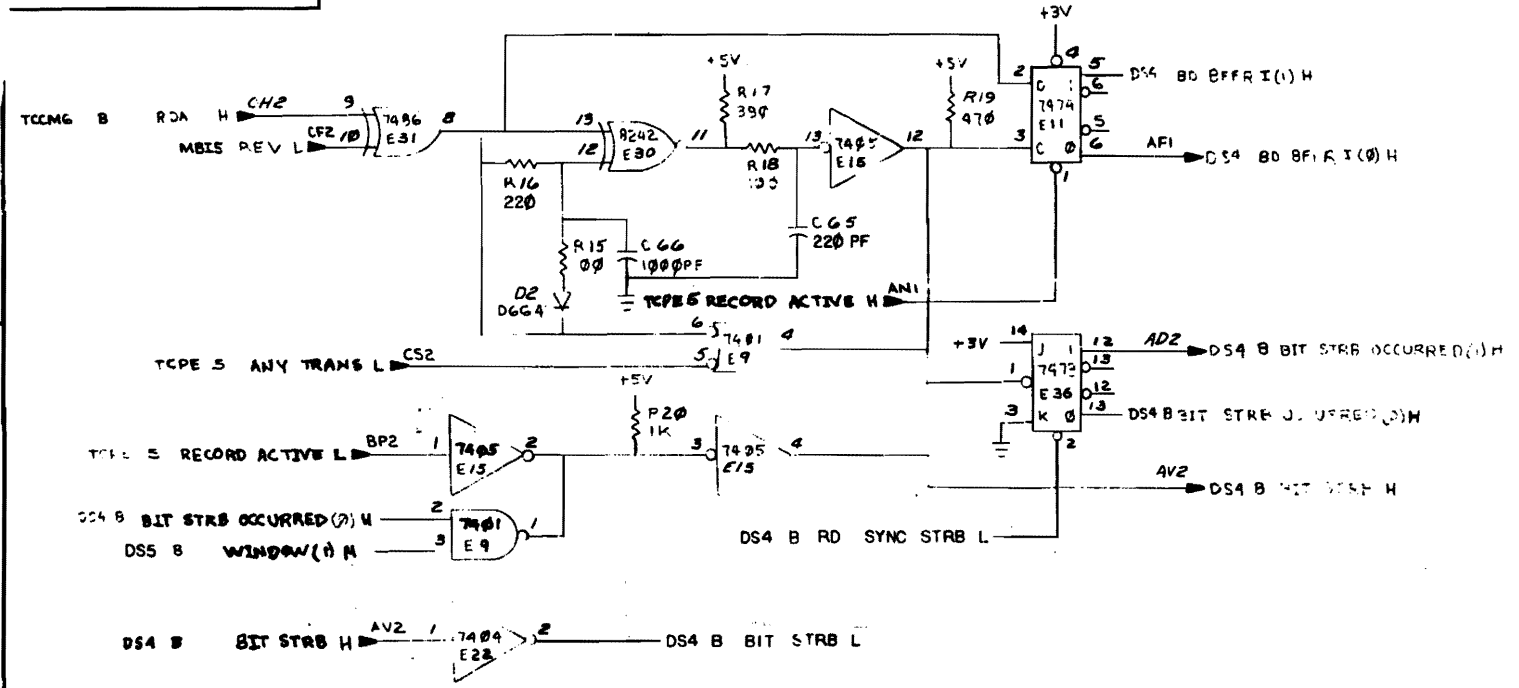
REVISIONS		
CHG	CHANGE NO	REV

TITLE	DATA SYNC (DS2)	SIZE/CODE	DCS	NUMBER	M8901-0-1	REV.	H
SCALE	←	SHEET	2	OF	7	DIST.	



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BIT STROBE AND WINDOW



NOTE:  
 1. PREFIX "B" IS TO BE INTERPRETED AS FOLLOWS:  
 MODULE IN SLOT 1 B IS BIT 0  
 MODULE IN SLOT 2 B IS BIT 5  
 MODULE IN SLOT 3 B IS BIT 1  
 EXAMPLE:  
 B RDA H — C01 CH2 = RDA 0 H  
 B RDA H — C02 CH2 = RDA 5 H  
 B RDA H — C03 CH2 = RDA 1 H  
 2. M8901 MODULES ARE LOCATED IN SECTIONS C, D, E, F OF TM02 LOGIC. THEREFORE PINS IN SECTION A OF THE MODULE ARE LOCATED IN C ON THE BACKPLANE ETC.

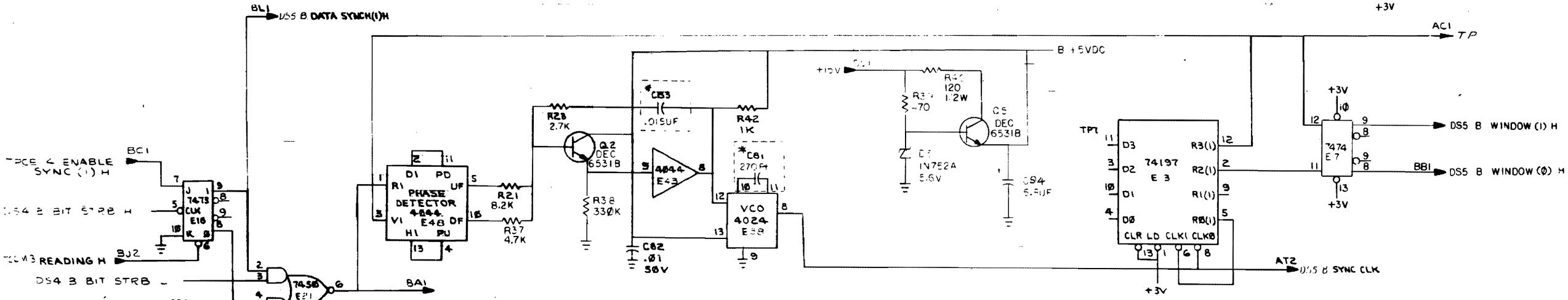
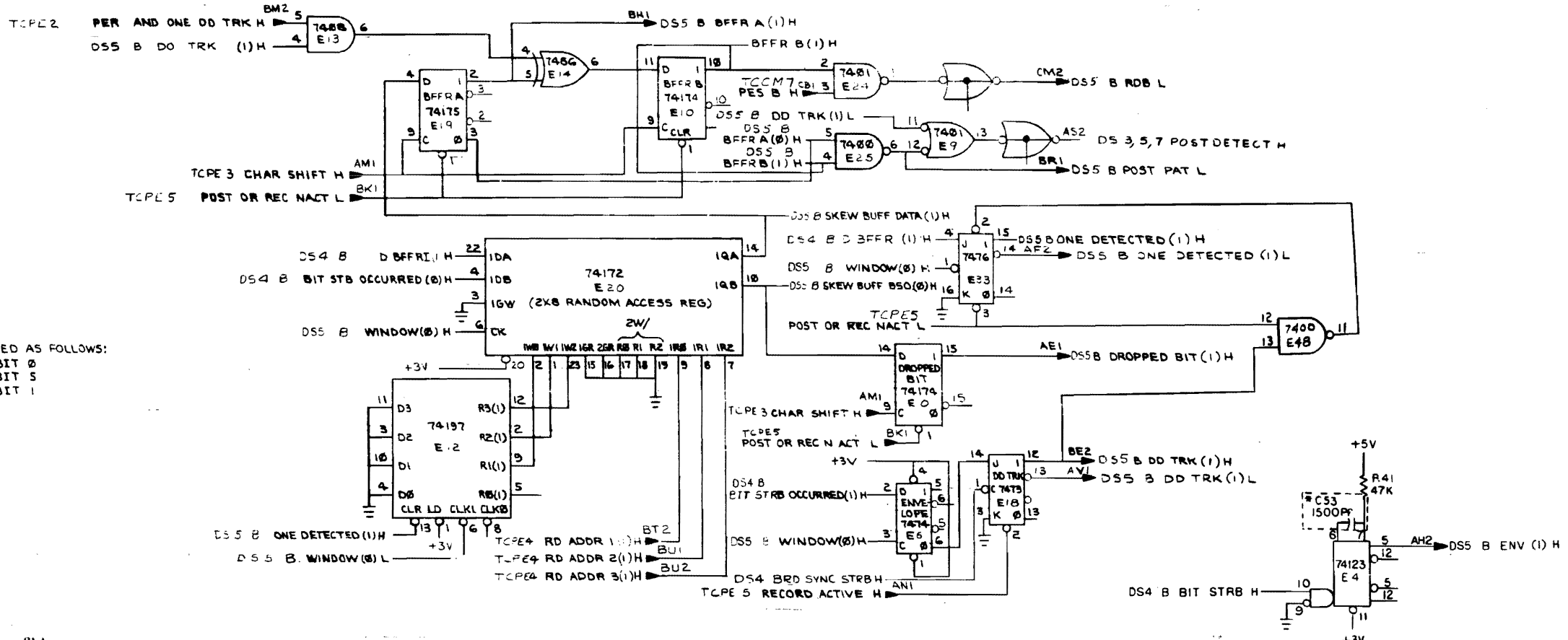
REVISIONS		
CHK	CHANGE NO	REV

TITLE	SIZE CODE	NUMBER	REV.
DATA SYNC (DS4)	DCS M8901-0-1	H	
SCALE	SHEET 4 OF 7	DIST.	

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1-0-100877 SUB 2

NOTE  
 PREFIX 'B' IS TO BE INTERPRETED AS FOLLOWS:  
 MODULE IN SLOT 1 B IS BIT 0  
 MODULE IN SLOT 2 B IS BIT 5  
 MODULE IN SLOT 3 B IS BIT 1  
 EXAMPLE:  
 B RDA H — CO1 CH2 = RDA 0 H  
 B RDA H — CO2 CH2 = RDA 5 H  
 B RDA H — CO3 CH2 = RDA 1 H



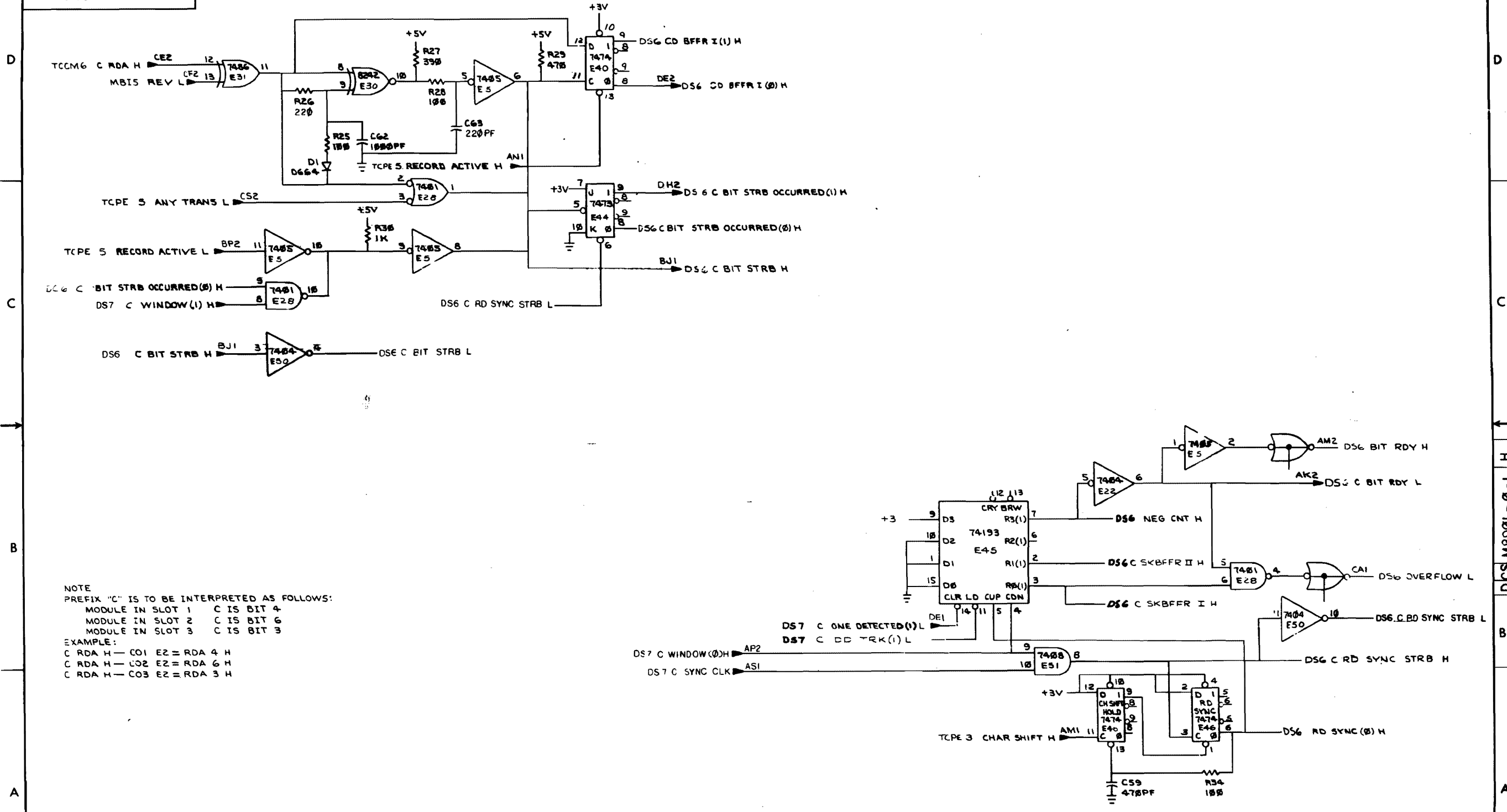
NOTE: \* SEE NOTES ON SHEET 1.

REV	CHANGE NO	REV

TITLE	DATA SYNC (DS5)	SIZE CODE	D CS	NUMBER	M8901-0-1	REV.	H
SCALE		SHEET	5 OF 7	DIST			

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BIT STROBE AND WINDOW



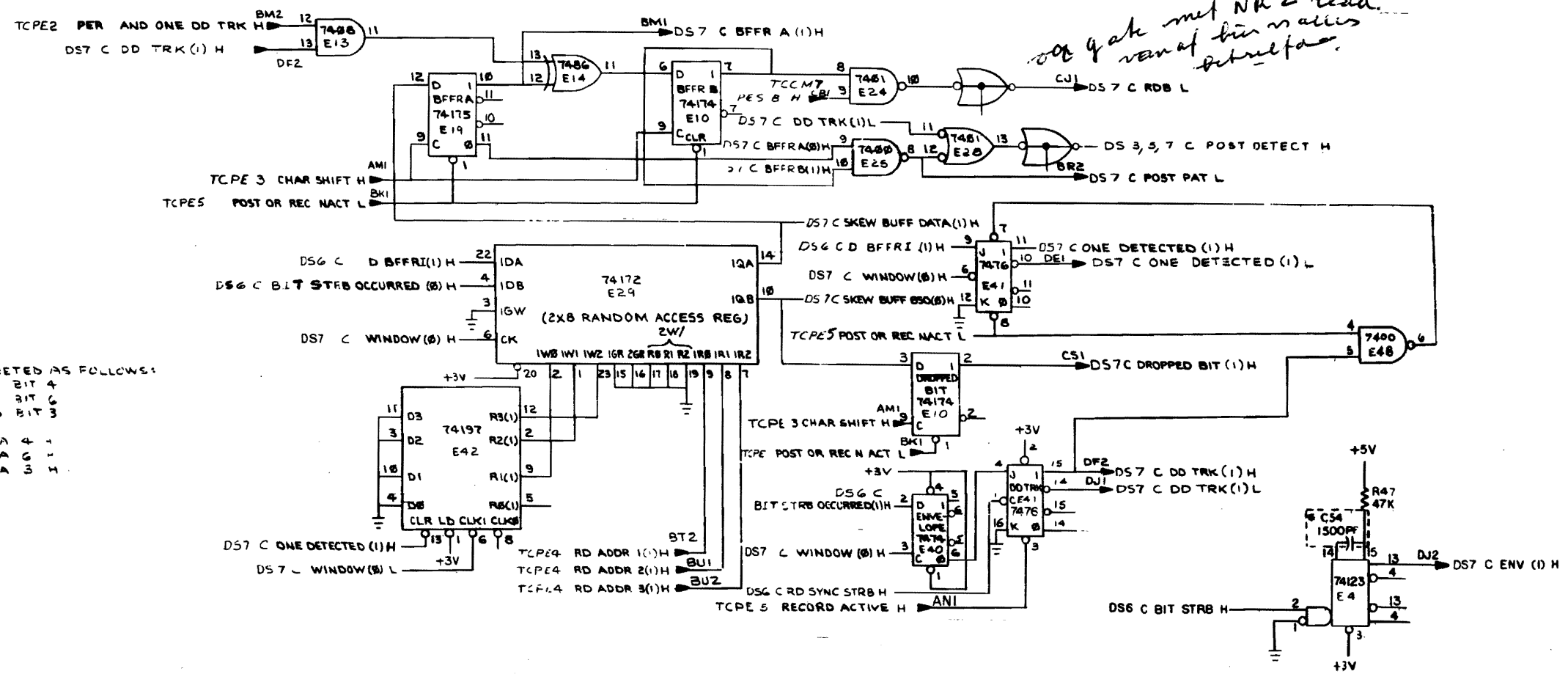
NOTE  
 PREFIX "C" IS TO BE INTERPRETED AS FOLLOWS:  
 MODULE IN SLOT 1 C IS BIT 4  
 MODULE IN SLOT 2 C IS BIT 6  
 MODULE IN SLOT 3 C IS BIT 3  
 EXAMPLE:  
 C RDA H — C01 E2 = RDA 4 H  
 C RDA H — C02 E2 = RDA 6 H  
 C RDA H — C03 E2 = RDA 3 H

REVISIONS		
CHR	CHANGE NO	REV

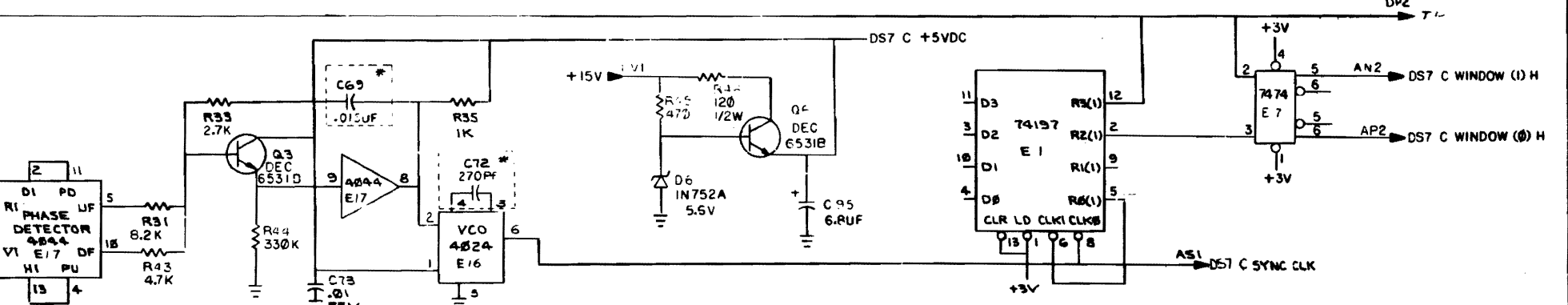
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H 1-0-1088 2

*out gate not NA to read van of bit is all subtract*



NOTE  
 REF IN C IS TO BE INTERPRETED AS FOLLOWS:  
 MODULE IN SLOT 1 C 5 BIT 4  
 MODULE IN SLOT 2 C 15 BIT 6  
 MODULE IN SLOT 3 C 5 BIT 3  
 EXAMPLE:  
 C 1A1 - C01 E2 = RDA 4 1  
 C 1B1 - C02 E2 = RDA 6 1  
 C 1C1 - C03 E2 = RDA 3 1

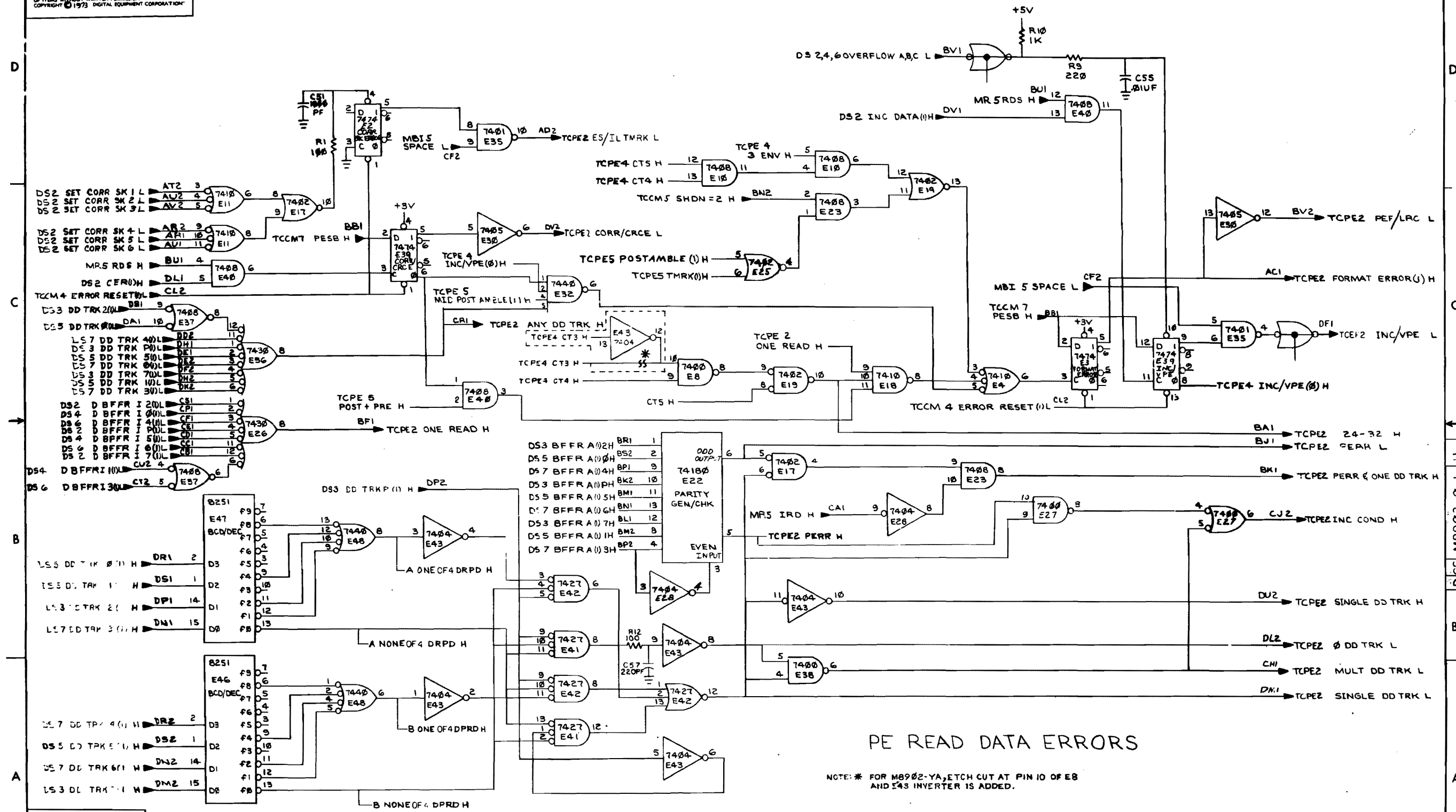


NOTE: \* SEE NOTES ON SHEET 1.

REVISIONS		
CHK	CHANGE NO	REV



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NOTE: \* FOR M8902-YA, ETCH CUT AT PIN 10 OF E8 AND E43 INVERTER IS ADDED.

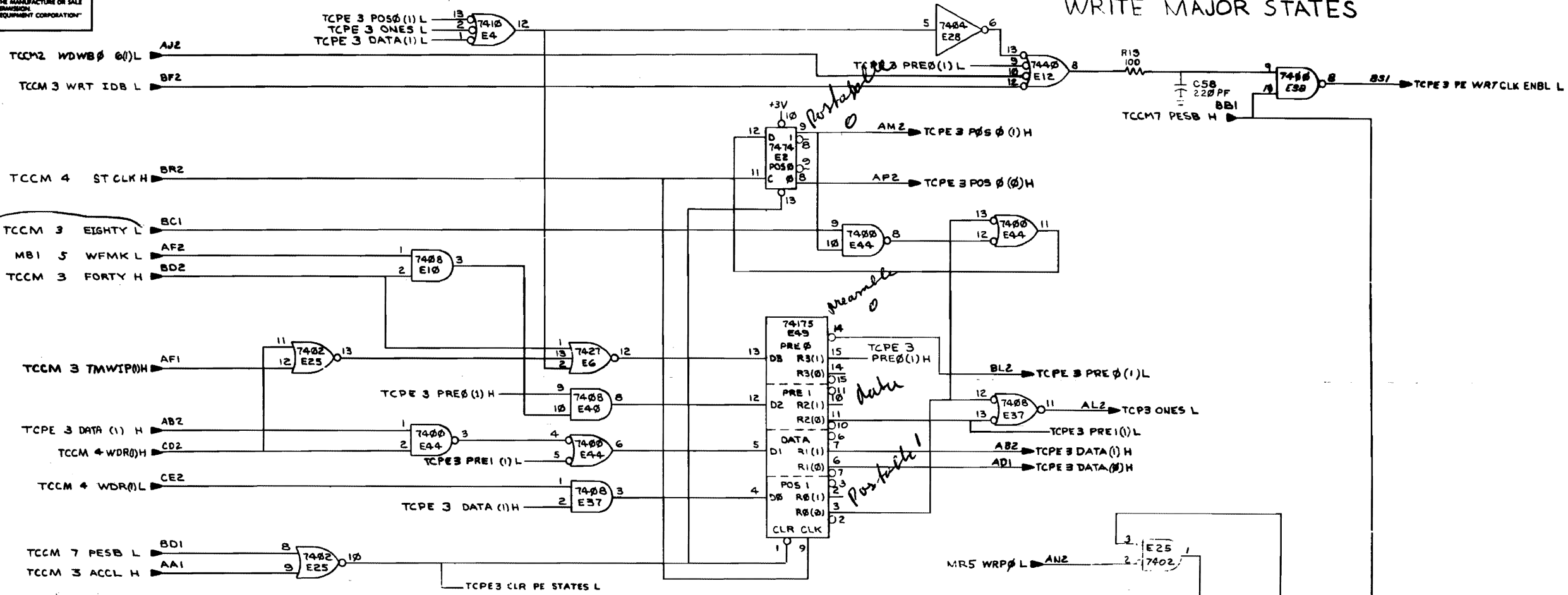
REVISIONS		
CHK	CHANGE NO	REV

TITLE	TAPE CONTROL PHASE ENCODED (TCPE2)	SIZE CODE	D CS	NUMBER	M8902-0-1	REV.	H
SCALE		SHEET	2	OF	5	DIST.	

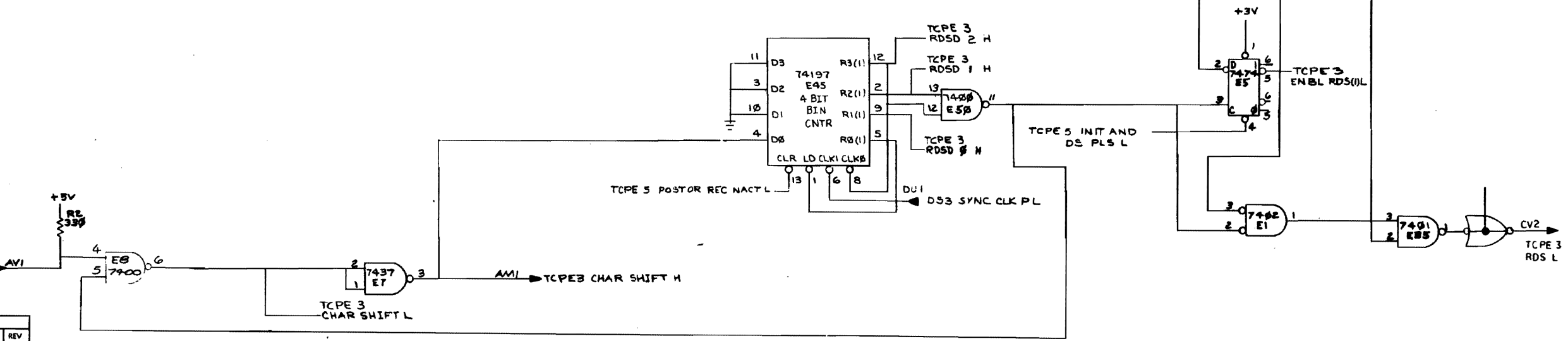
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WRITE MAJOR STATES

*det signal word  
nu de counter op  
29 afygenen.*



PE READ DATA STROBE GENERATOR



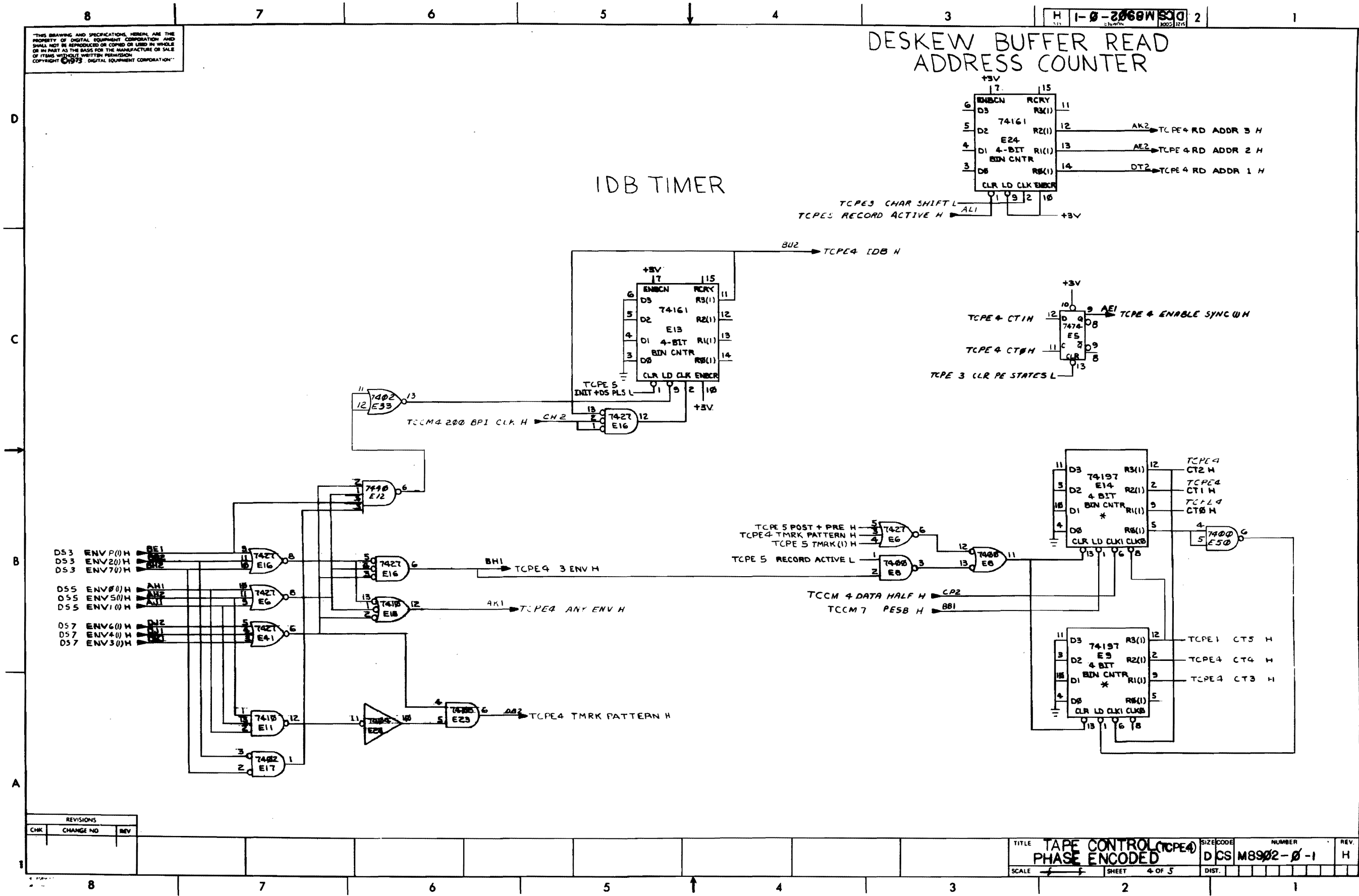
REVISIONS		
CHK	CHANGE NO	REV

TITLE	TAPE CONTROL (TCPE3)	SIZE CODE	DCS	NUMBER	M8902-0-1	REV.	M
SCALE	+	SHEET	3 OF 5	DIST.			

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# DESKEW BUFFER READ ADDRESS COUNTER

## IDB TIMER



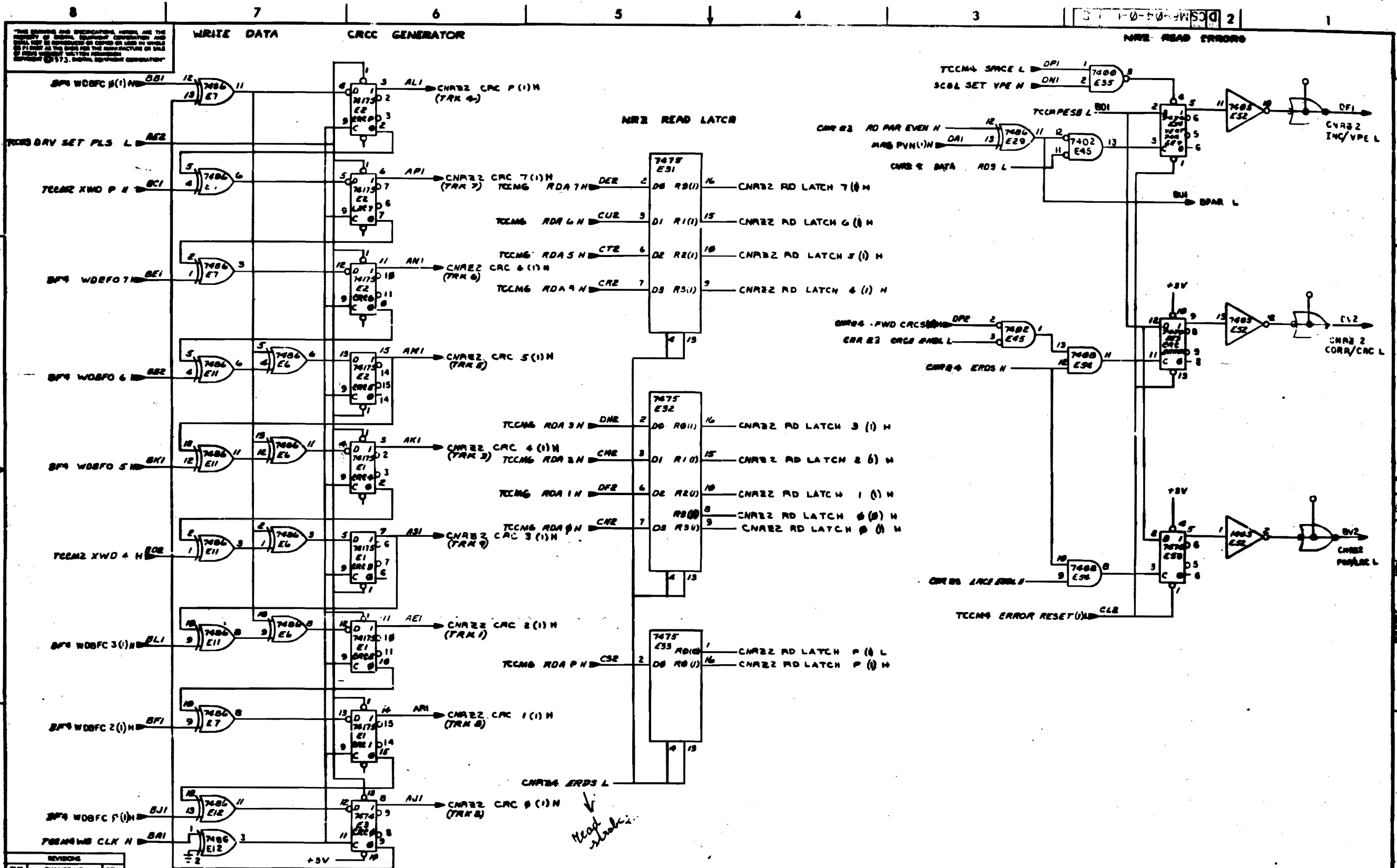
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CHK	CHANGE NO	REV

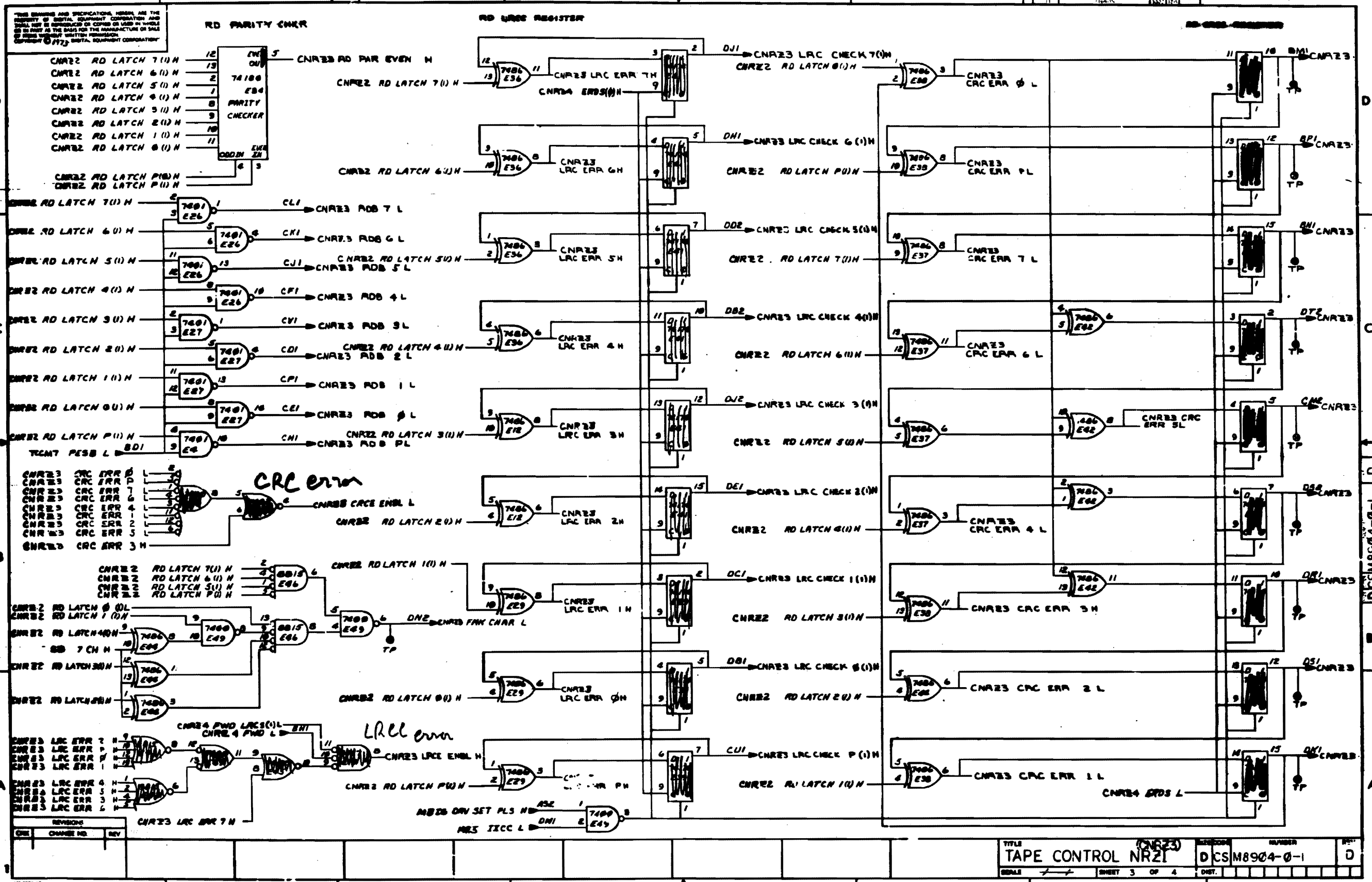
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SCALE	1:1	SHEET	4	OF 5	DIST.		

DCS M8902-0-1

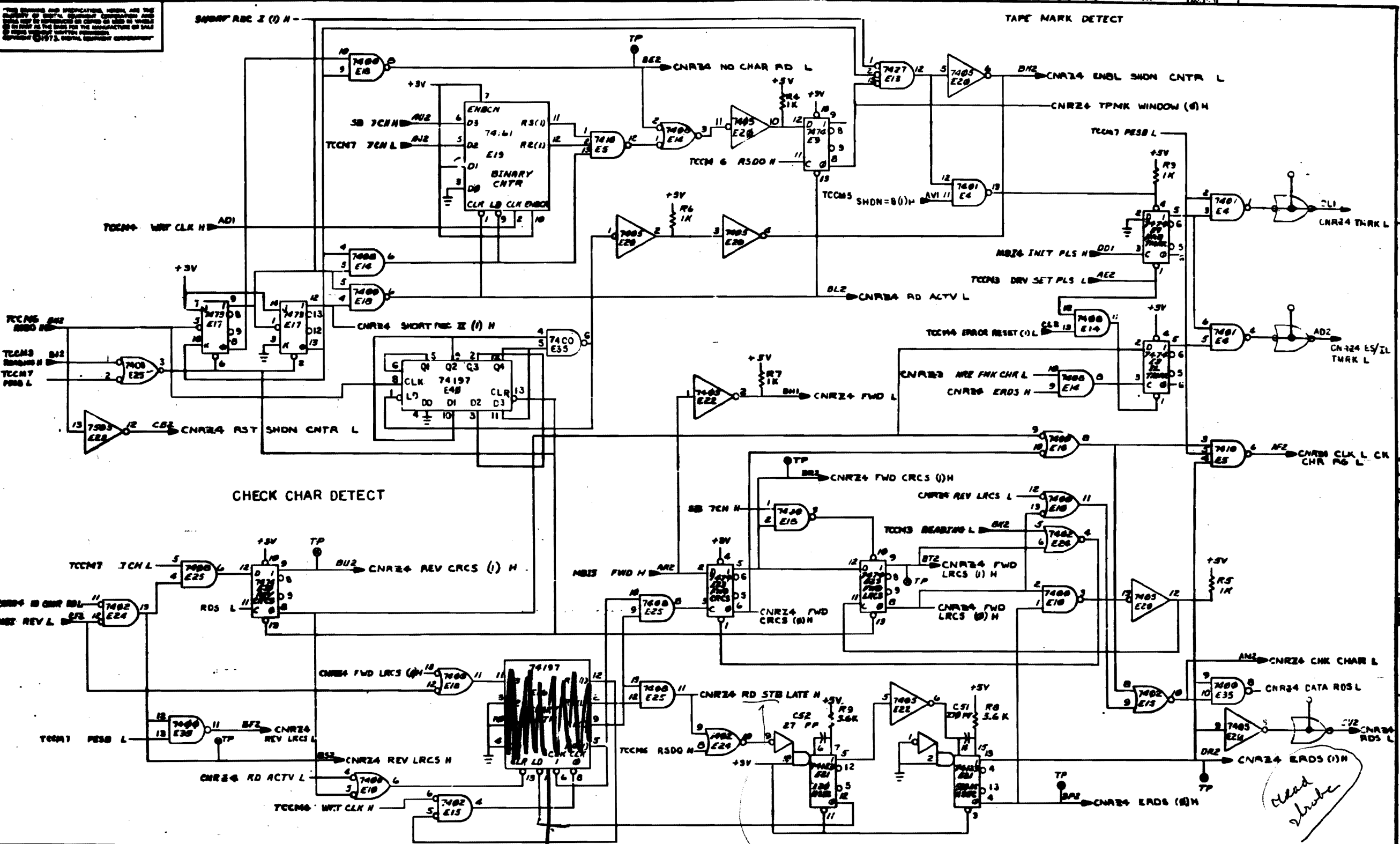








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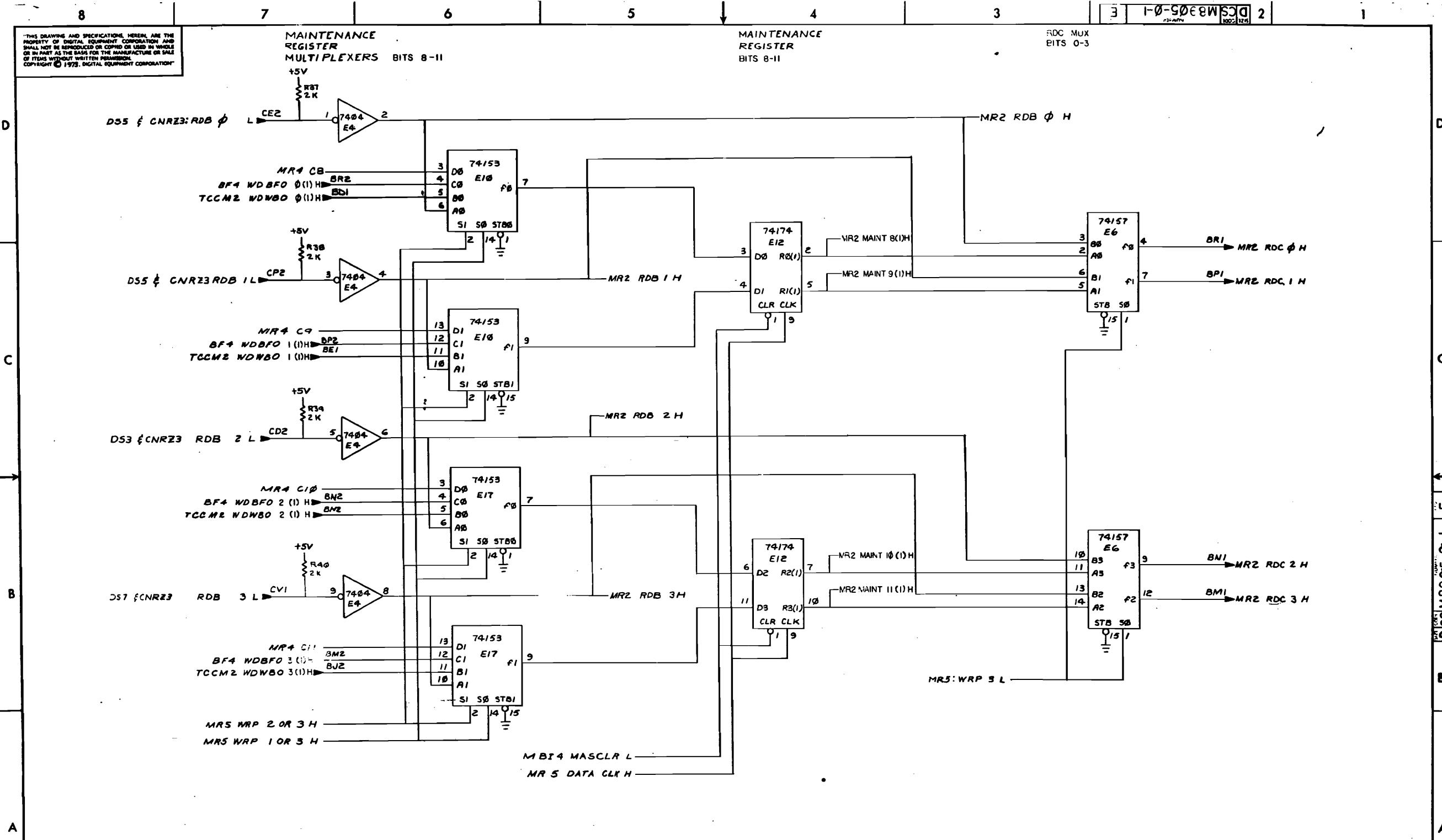
REV	CHG	NO.	REV.

*dir counter necessary  
 external RD stb late  
 in dir circuit as in LA rev*

DO

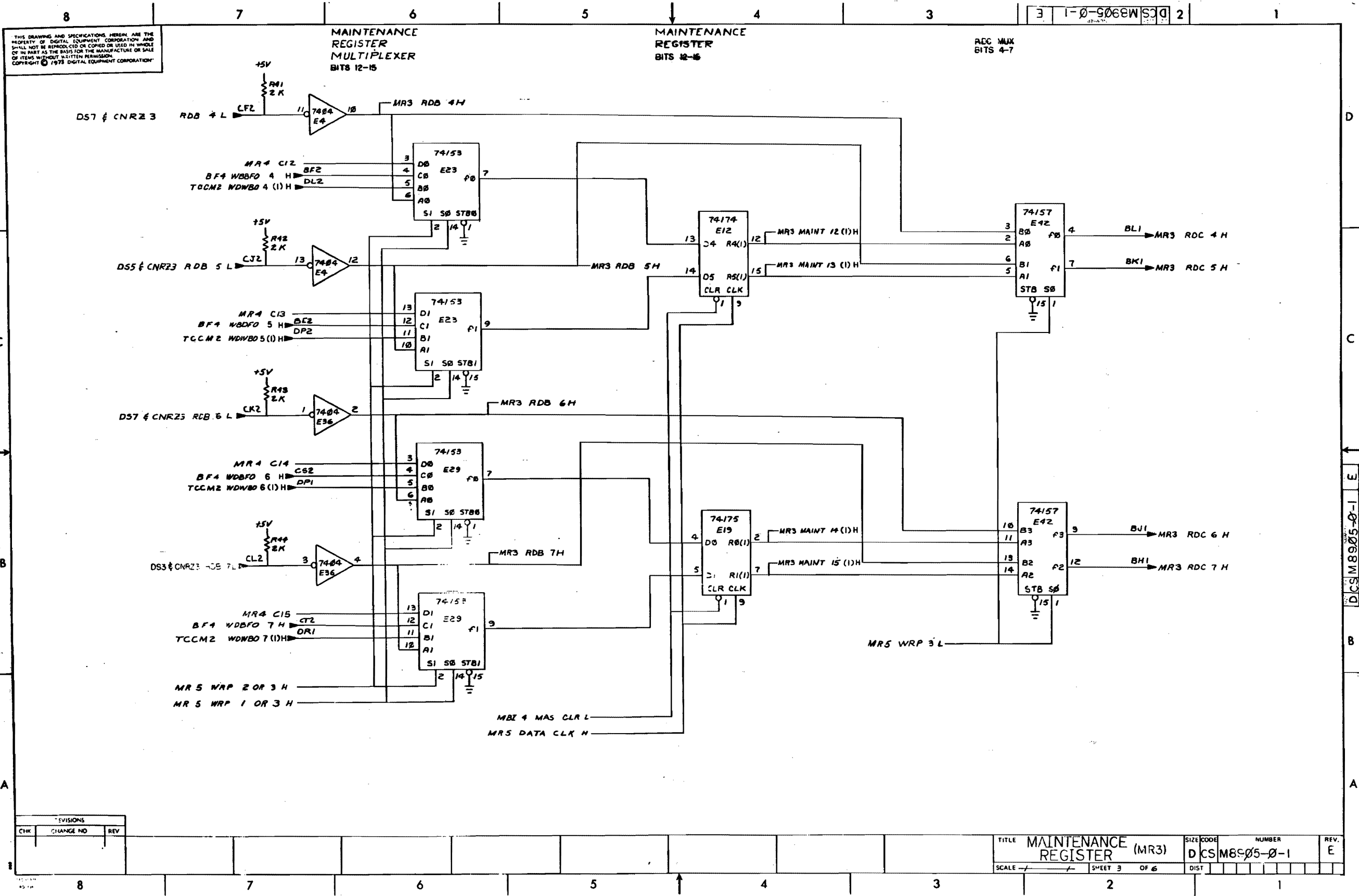


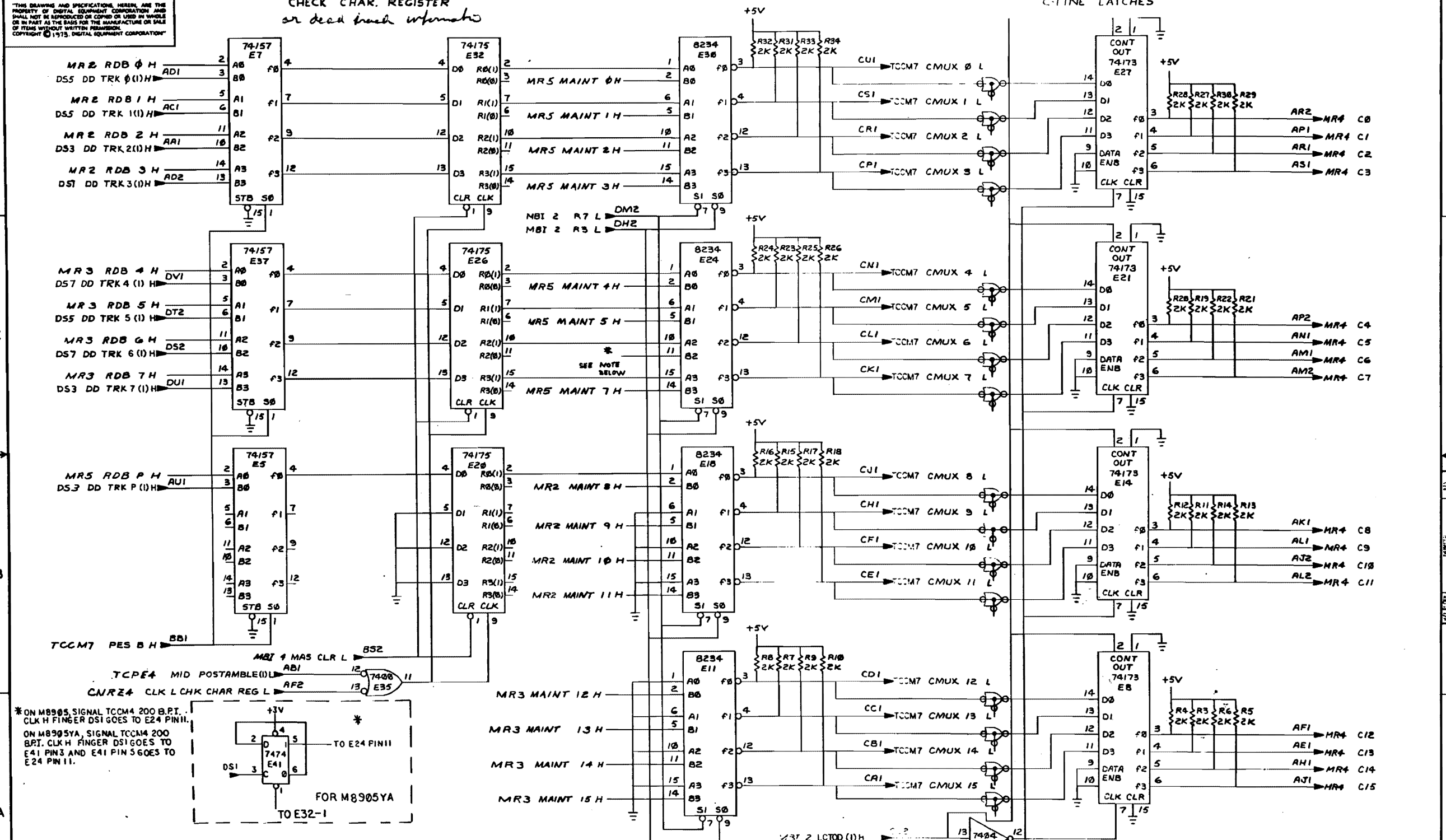
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REVISIONS		
CHK	CHANGE NO	REV

TITLE: MAINTENANCE REGISTER (MR2) SIZE CODE: DCSM8905-0-1 NUMBER: REV. E





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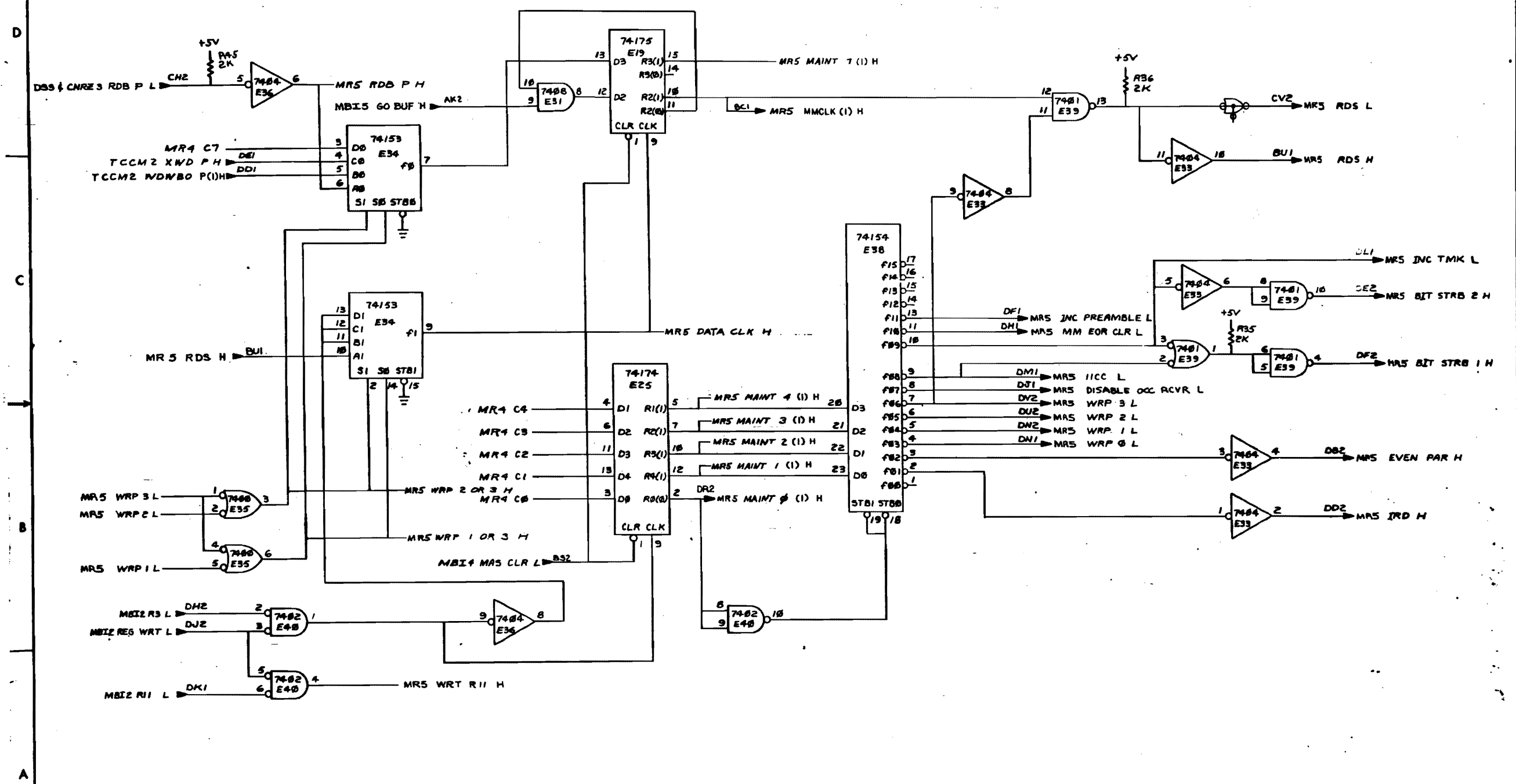
\* ON M8905, SIGNAL TCCM4 200 B.P.T. CLK H FINGER DS1 GOES TO E24 PIN11.  
 ON M8905YA, SIGNAL TCCM4 200 B.P.T. CLK H FINGER DS1 GOES TO E41 PIN3 AND E41 PIN5 GOES TO E24 PIN 11.  
 FOR M8905YA TO E32-1

REVISIONS		
CHK	CHANGE NO	REV

TITLE	MAINTENANCE REGISTER (MR4)	SIZE CODE	DCS	NUMBER	M8905-0-1	REV.	E
SCALE	SHEET 4 OF 6		DIST.				

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MAINTENANCE REGISTER  
BITS 0-7



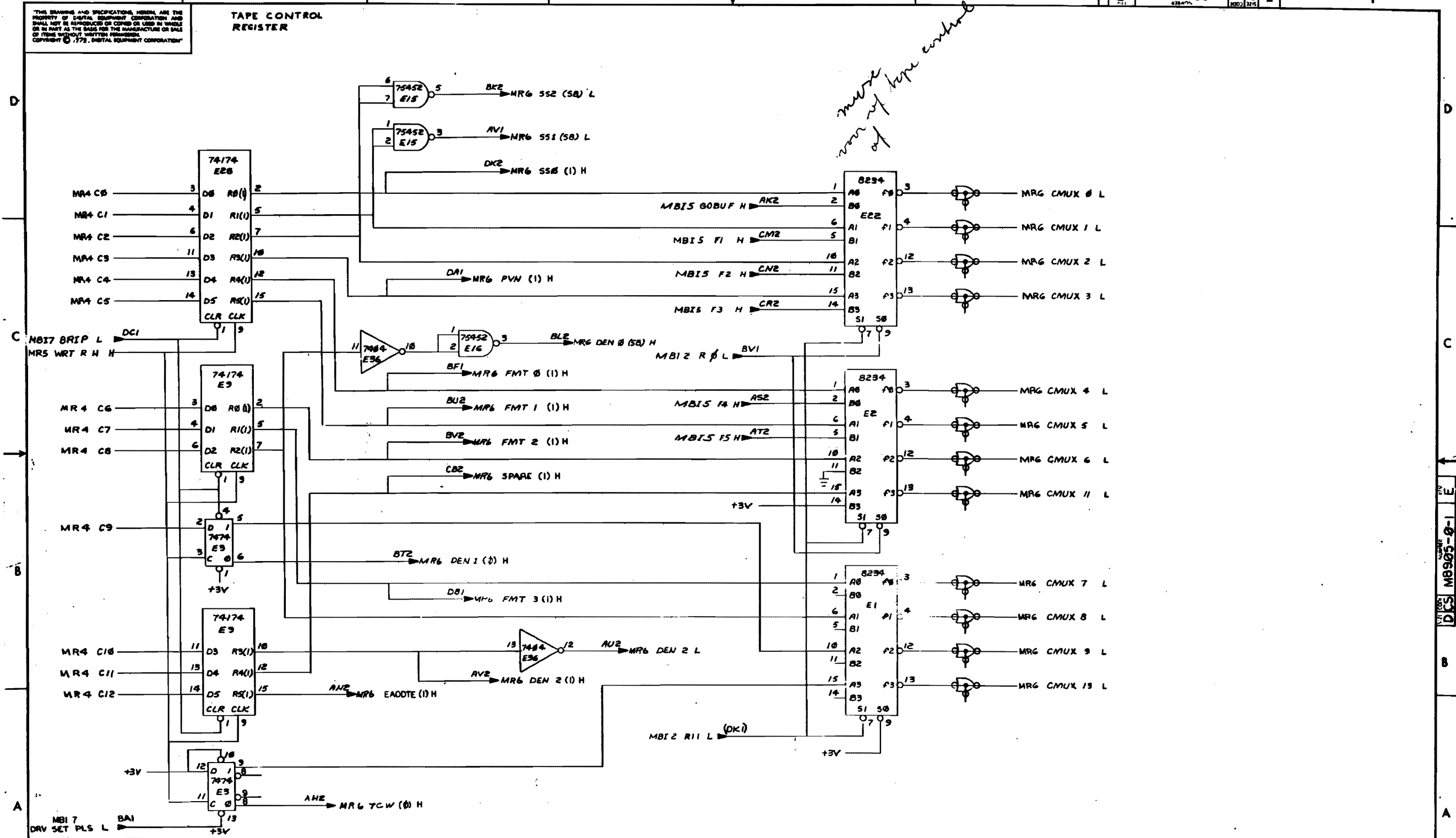
REVISIONS		
CHK	CHANGE NO.	REV

TITLE	MAINTENANCE REGISTER (MRS)	SIZE CODE	NUMBER	REV.
SCALE	SHEET 5 OF 6	DIST.	DCS M895-0-1	E

TAPE CONTROL REGISTER

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*mux  
of  
tape control*



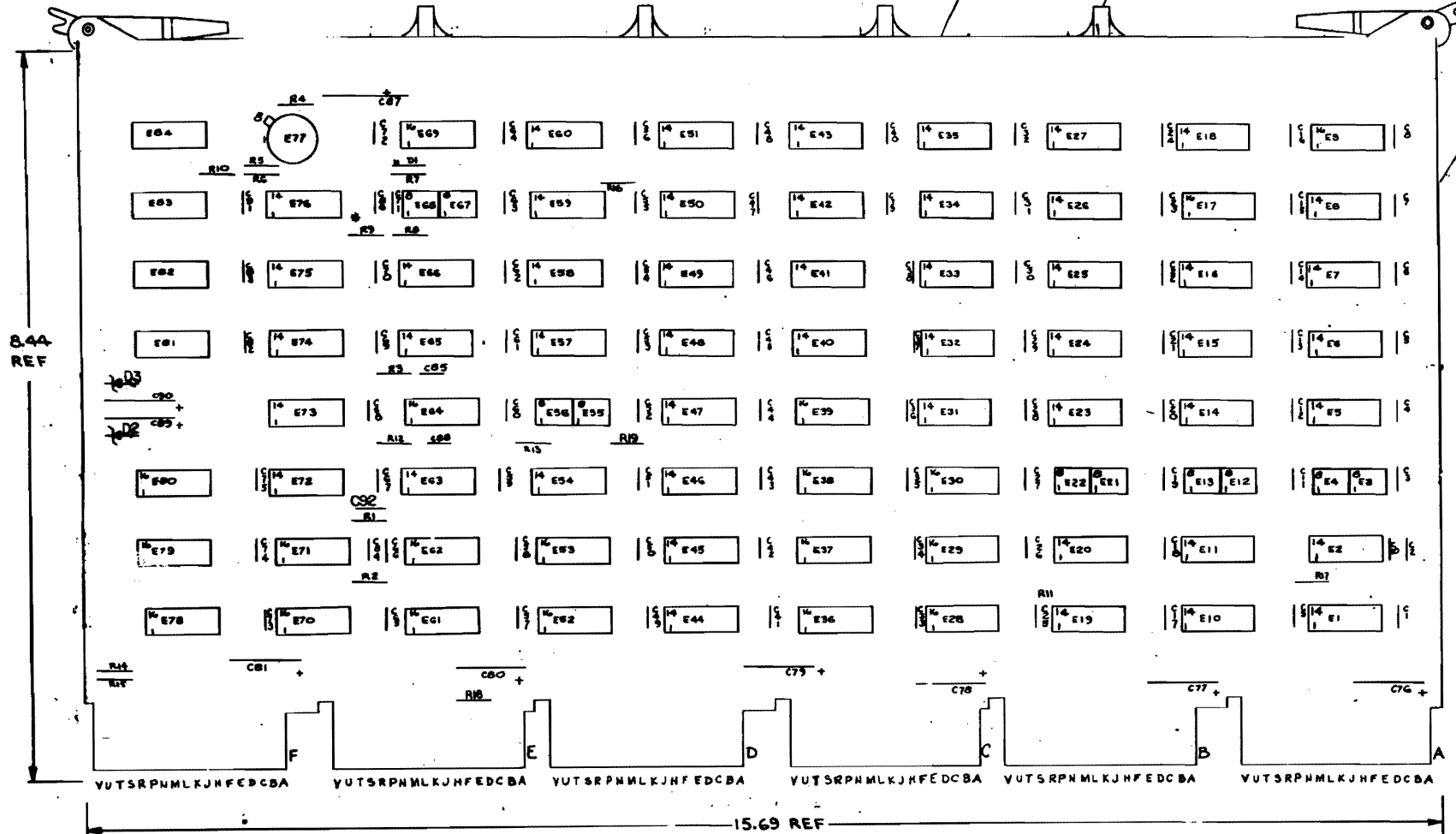
REVISIONS		
CHK	CHANGE NO	REV.

TITLE	MAINTENANCE REGISTER (MR6)	SIZE CODE	D CS	NUMBER	M8905-0-1	REV.	E
SCALE	1/1	SHEET	6	OF	6	DIST.	

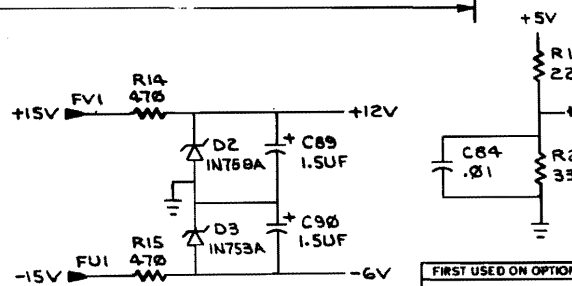
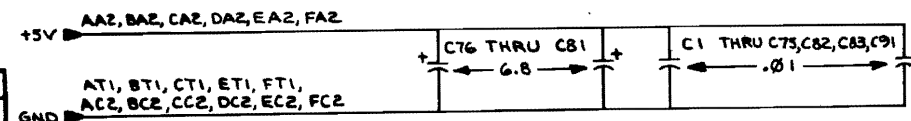
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**NOTES:**

- \* M8903YA
- A. CHANGE DESCRIPTION TO M8903YA
- B. DELETE RESISTOR R9 (100K 1/4W)
- C. ADD RESISTOR R9 (62K 1/4W)
- D. ANY SHIPPABLE CD REV MAY BE CONVERTED TO A YA BY MAKING THE ABOVE CHANGES.



REF	QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
-		REF	X-Y COORDINATE HOLE LOCATION	K-CO-M8903-0-4	REF
-		REF	ASSY/DRILLING HOLE LAYOUT	D-AH-M8903-0-3	REF
-		REF	MODULE ECO HISTORY	B-MH-M8903-0-6	REF
1	1		ETCHED CIRCUIT BOARD	5010469	1
1	1		HANDLE, HEX	1210711-2	2
12	12		EYELET	3006732	3
80	80	C1-C75, C84, C86, C87, C88, C91	CAP .01UF 100V 20% DISC	1001610-01	4
1	1	C87	CAP 100UF 20V 10% S.TANT	1004815	5
6	6	C76 THRU C81	CAP 6.8UF 35V 10% S.TANT	1005306	6
2	2	C85, C88	CAP 560PF 100V 5% DM	1000025	7
1	1	D1	DIODE D664	1100114	8
1	1	R1	RES 220 1/4W 5%	1300271	9
1	1	R2	RES 330 1/4W 5%	1300255	10
7	7	R5, R6, R10, R11, R13, R16, R19	RES 1K 1/4W 5%	1300365	11
1	1	R9	RES 62K 1/4W 5%	1304840	12
1	1	R4	RES 4.7K 1/4W 5%	1300447	13
3	3	R3, R7, R12	RES 10K 1/4W 5%	1300479	14
1	1	R8	RES 27 1/4W 5%	1301522	15
1	1	R9	RES 100K 1/4W 5%	1302466	16
7	7	E26, E31, E42, E57, E58, E65, E75	IC 7474	1905547	17
6	6	E25, E55, E66, E72, E74, E88	IC 7400	1905575	18
4	4	E7, E46, E60, E73	IC 7410	1905376	19
1	1	E18	IC 7473	1905587	20
5	5	E24, E41, E48, E50, E59	IC 7402	1909004	21
1	1	E77	IC 306	1909675	22
5	5	E34, E40, E54, E76, E82	IC 7404	1909686	23
5	5	E28, E29, E36, E37, E59	IC 7415B	1909937	24
1	1	E32	IC 7486	1910011	25
6	6	E5, E6, E14, E15, E27, E51	IC 7415T	1910035	26
8	8	E22, E33, E43, E47, E49, E63, E84	IC 7406	1910155	27
1	1	E64	IC 74123	1910436	28
5	5	E22, E55, E56, E67, E68	IC 75432	1910645	29
2	2	E9, E17	IC 74161	1910650	30
2	2	E30, E58	IC 74175	1910651	31
4	4	E69, E78, E79, E80	IC 74157	1910655	32
1	1	E44	IC 74180	1910724	33
2	2	E16, E45	IC 7427	1910878	34
5	5	E3, E4, E12, E13, E21	IC 75451	1910406	35
6	6	E1, E2, E10, E11, E19, E20	IC 8640	1911469	36
6	6	E52, E53, E61, E62, E70, E71	IC 8294	1911315	37
1	1	E81	IC 7405	1909930	38
2	2	C89, C90	CAP 1.5UF 35V 10% TANT	1009725	39
1	1	C92	CAP 1000PF 100V	1000042	40
1	1	D3	DIODE, ZENER 6.2V 1N753A	1102421	41
1	1	D2	DIODE, ZENER 12V 1N758A	1110838	42
3	3	R14, R15, R18	RES 470 1/4W 5%	1303316	43
1	1	R17	RES 150 1/4W 5%	1300250	44



IC TYPE	QTY	REF
8640	1	8
7473	11	4
74153	8	16
74123	8	16
75452	4	8
74161	8	16
74175	8	16
75453	4	8
8234	8	16
306	1	8
IC TYPE	GND	+5V -6V +12V

GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE.

REVISIONS

REV	DESCRIPTION
1	J. HESS 11-21-75
2	J. HESS 11-21-75
3	J. HESS 11-21-75
4	J. HESS 11-21-75
5	J. HESS 11-21-75
6	J. HESS 11-21-75
7	J. HESS 11-21-75
8	J. HESS 11-21-75
9	J. HESS 11-21-75
10	J. HESS 11-21-75
11	J. HESS 11-21-75
12	J. HESS 11-21-75
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94	J. HESS 11-21-75
95	J. HESS 11-21-75
96	J. HESS 11-21-75
97	J. HESS 11-21-75
98	J. HESS 11-21-75
99	J. HESS 11-21-75
100	J. HESS 11-21-75

FIRST USED ON OPTION MODEL: TU16

ETCH BOARD REV: E

DRN: [Signature] DATE: 10/23/73

CHK: [Signature] DATE: 10/23/73

PROJ: [Signature] DATE: 10/23/73

SCALE: 1 OF 7

SEMICONDUCTOR CONVERSION CHART

digital EQUIPMENT CORPORATION (TCMI) TITLE: TAPE CONTROL COMMON MODE

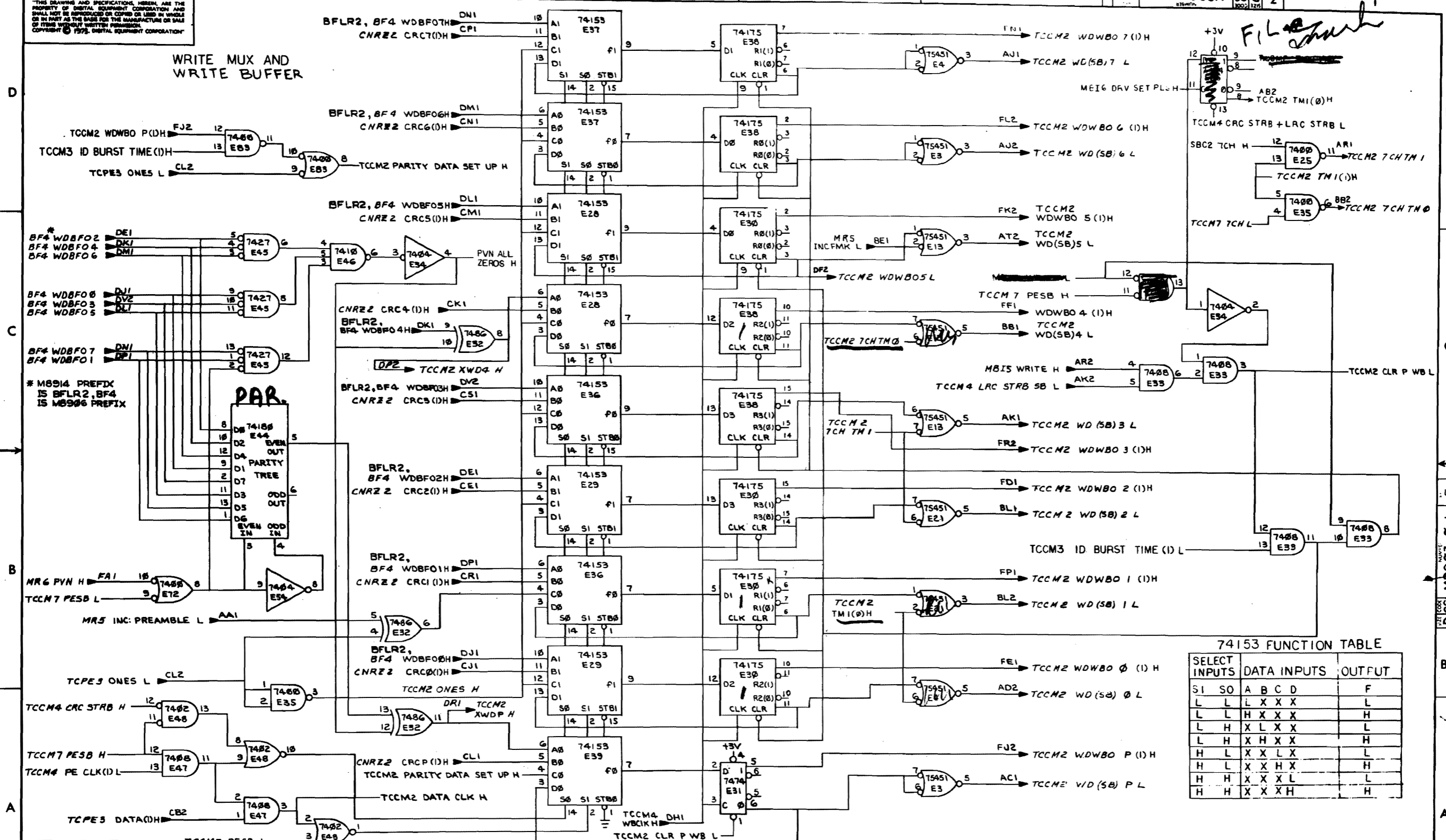
SIZE CODE: DCS M8903-0-1

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1-8-8068W 2

*FILE*

**WRITE MUX AND WRITE BUFFER**



74153 FUNCTION TABLE

SELECT INPUTS	DATA INPUTS	OUTPUT
S1 S0	A B C D	F
L L	L X X X	L
L L	H X X X	H
L H	X L X X	L
L H	X H X X	H
H L	X X L X	L
H L	X X H X	H
H H	X X X L	L
H H	X X X H	H

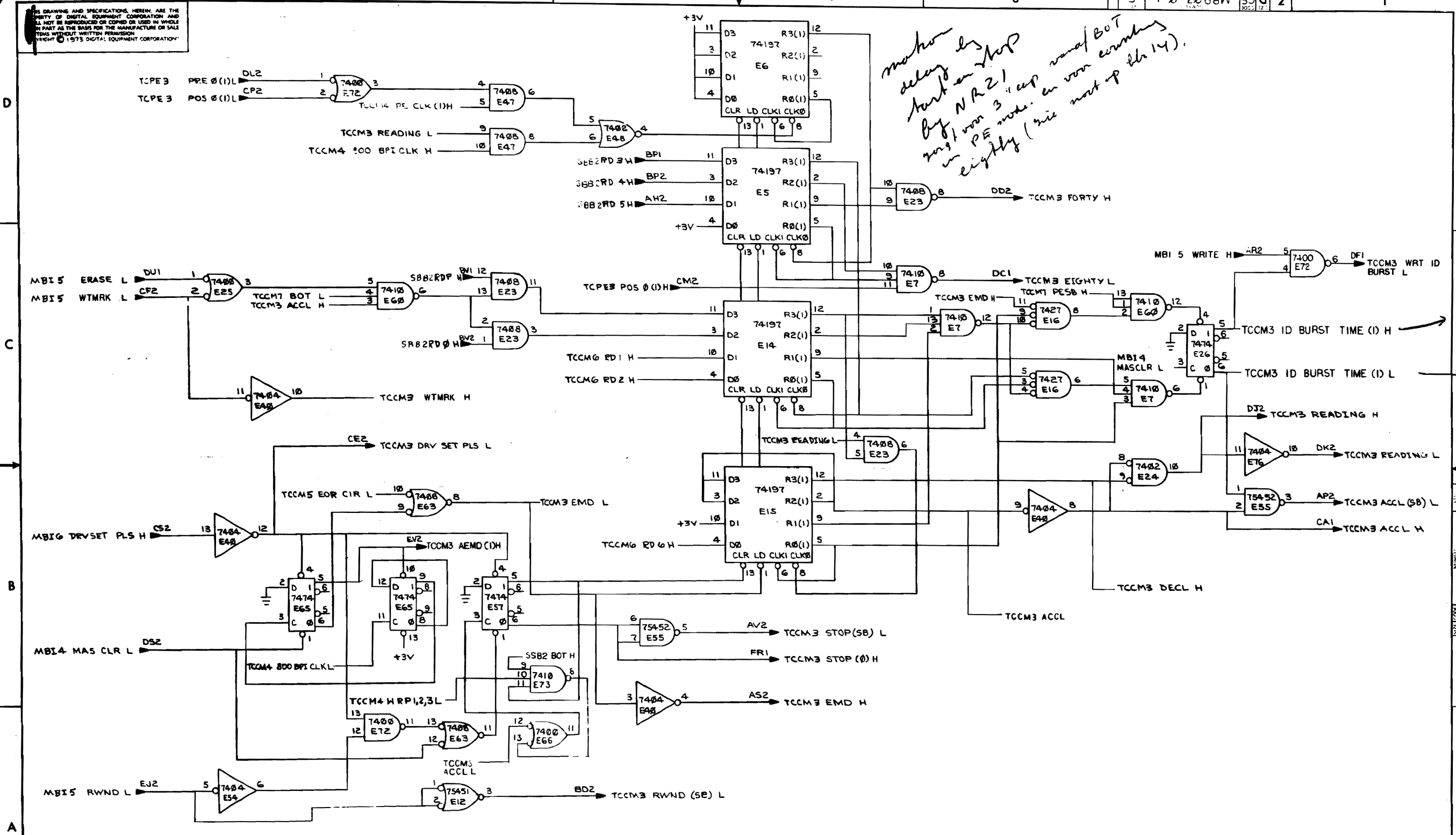
REVISIONS

CHK	CHANGE NO.	REV.

TITLE TAPE CONTROL COMMON MODE (TCCM2) SIZE CODE DCS NUMBER M8903-0-1 REV. F

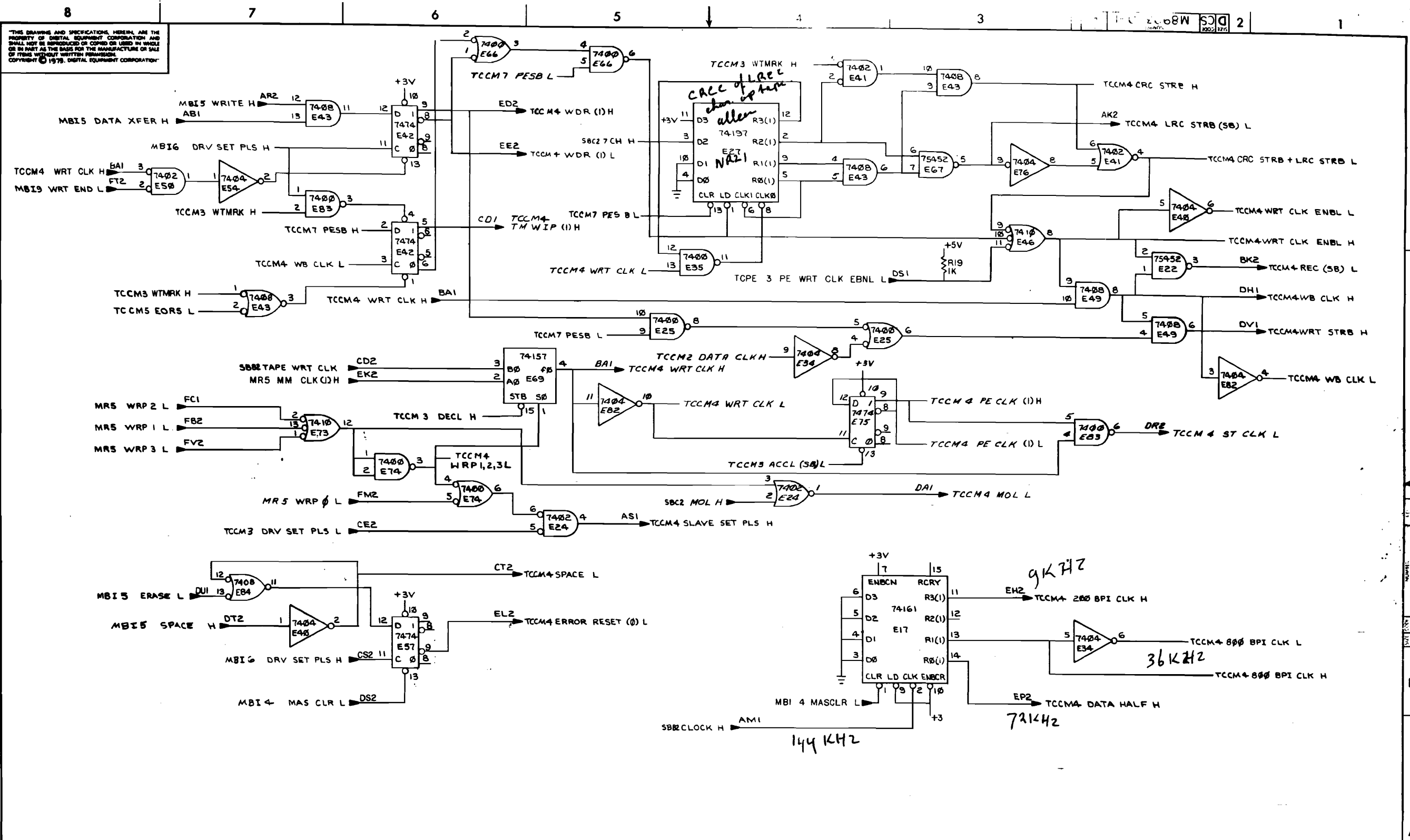
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1-0-0068W DCS 2



REVISIONS		
CHK	CHANGE NO	REV

TITLE TAPE CONTROL CCM3 IN MODE (TCCM3) SIZE CODE DCS NUMBER M8903-0-1 REV. F SCALE SHEET 3 OF 4 DIST.

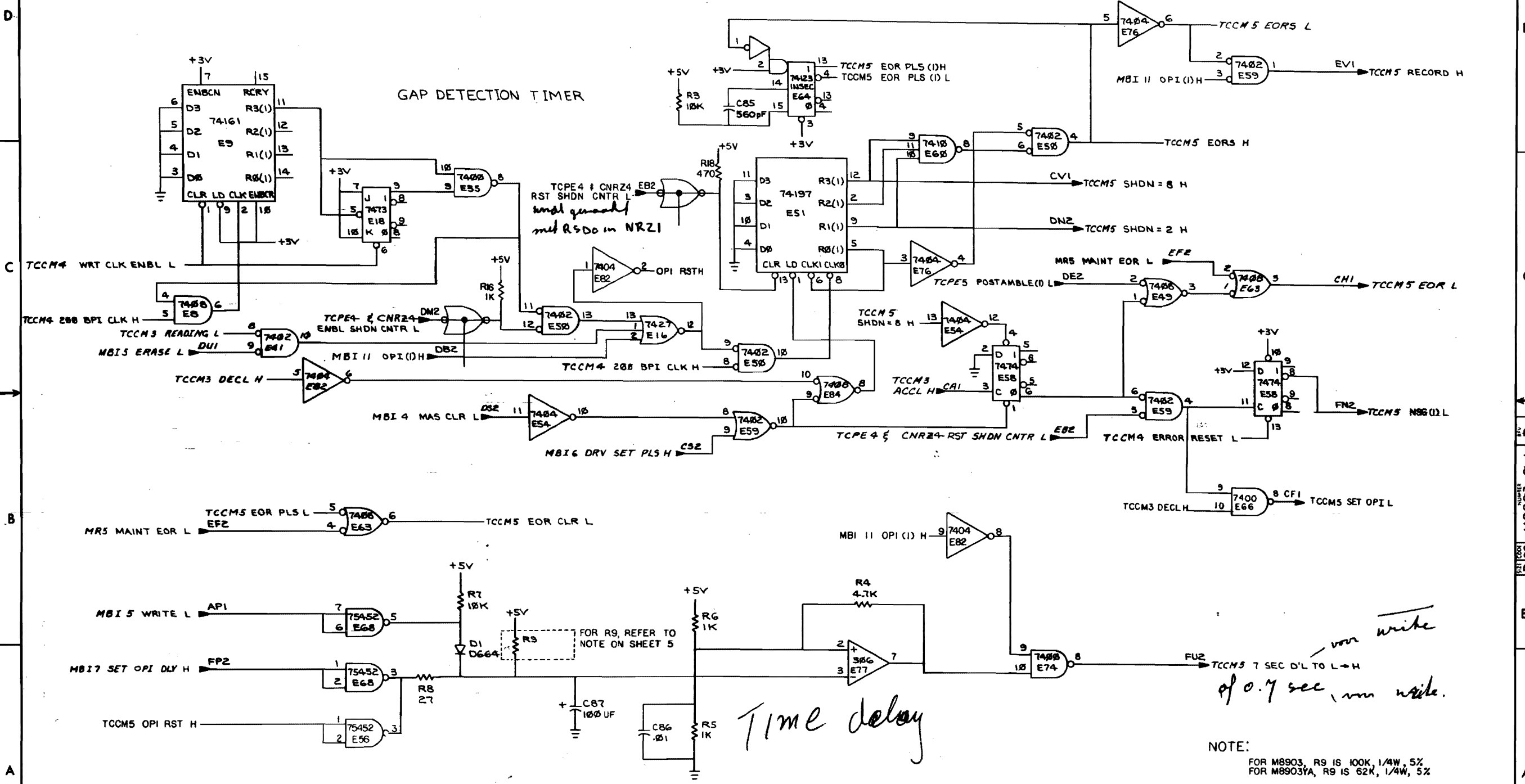


REVISIONS		
CHK	CHANGE NO	REV

TITLE	TAPE CONTROL (TCCM4)	SIZE CODE	D CS	NUMBER	M8903-0-1	REV.	F
SCALE		SHEET	4	OF	7	DIST.	

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DCS M8903-0-1 2



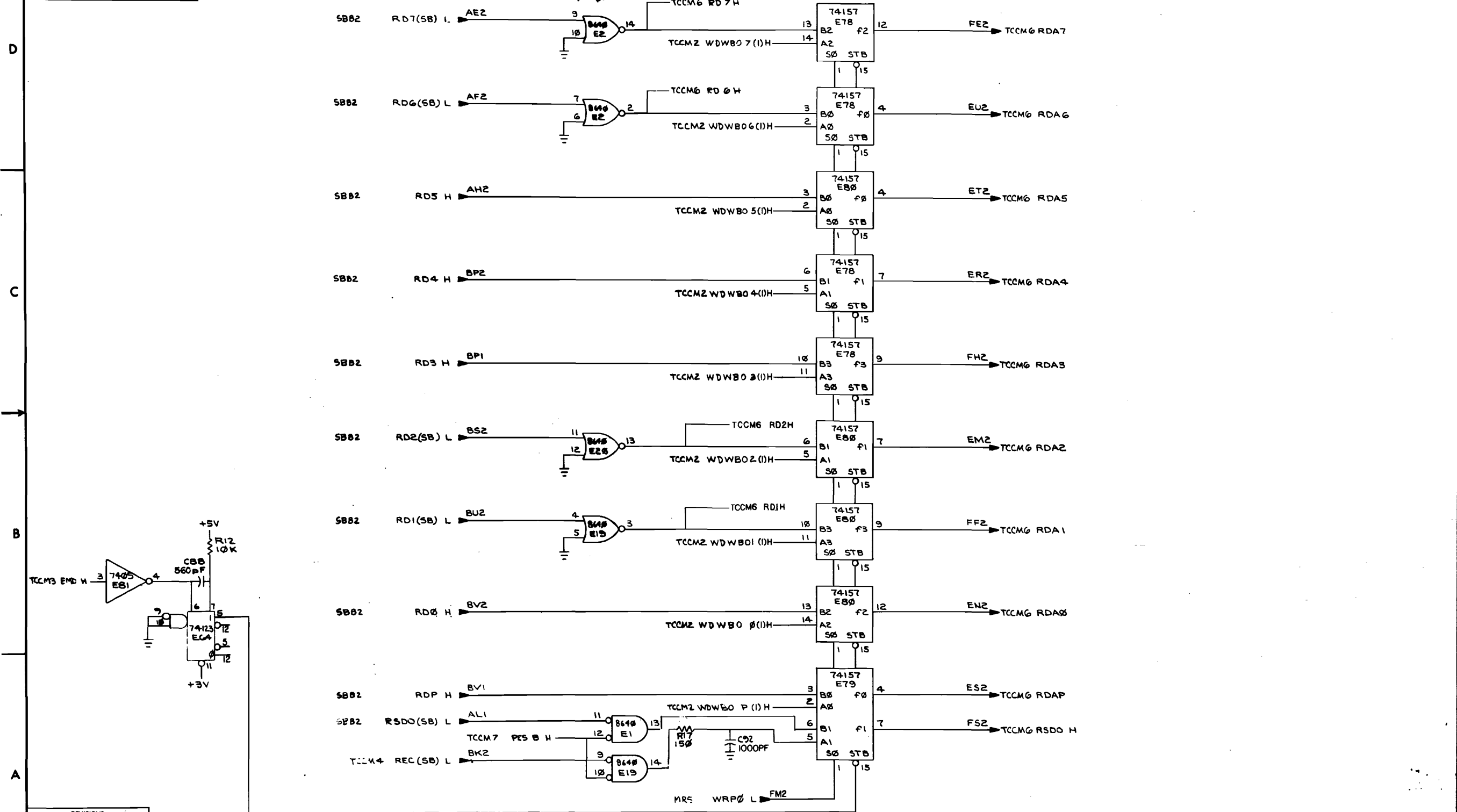
*write*  
of 0.7 sec, *write*

NOTE:  
FOR M8903, R9 IS 100K, 1/4W, 5%  
FOR M8903YA, R9 IS 62K, 1/4W, 5%

REVISIONS		
CHK	CHANGE NO	REV.

TITLE	TAPE CONTROL COMMON MODE (TCCM5)	SIZE CODE	DCS	NUMBER	M8903-0-1	REV.	F
SCALE	+	SHEET	5	OF	7	DIST.	

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REVISIONS		
CHK	CHANGE NO.	REV.

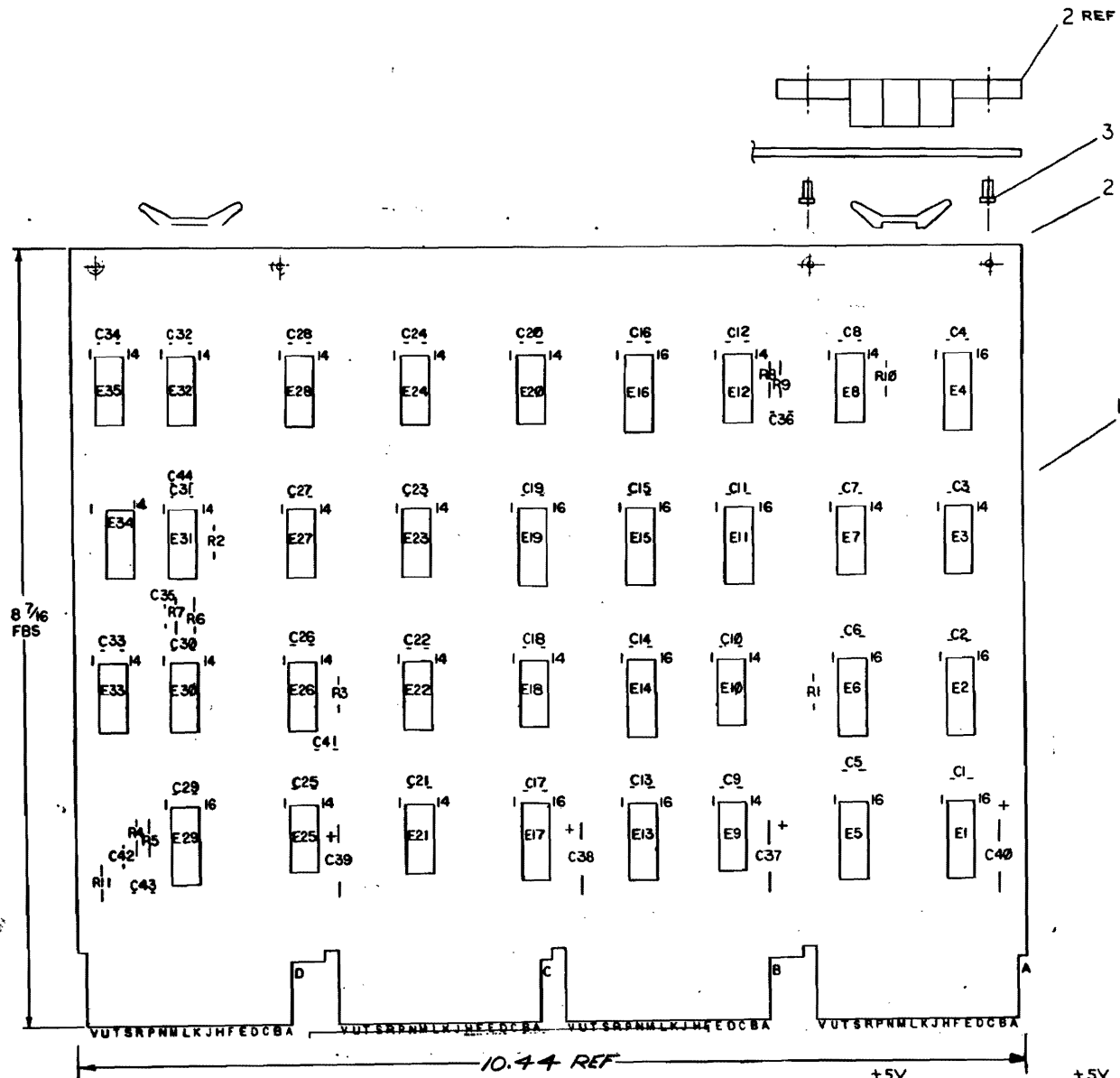


8 7 6 5 4 3

1-8-9068W 2

NOTES:  
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NOTES:

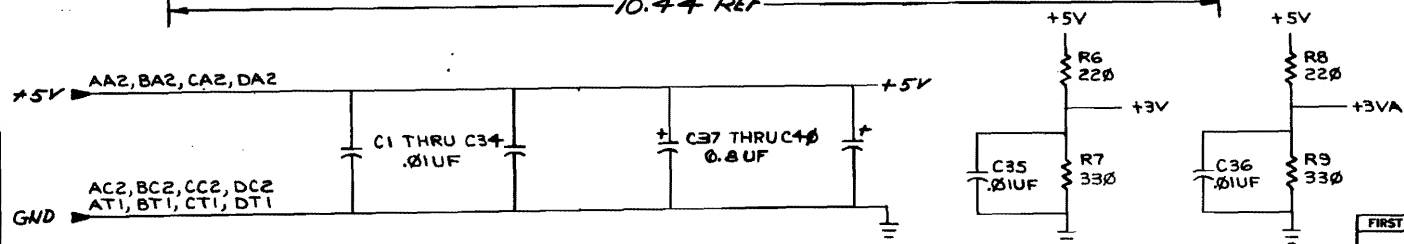


REF	X/Y COORDINATE HOLE LOCATION	K-CO-M8906-8-4	REF
REF	ASSY/DRILLING HOLE LAYOUT	D-AH-M8906-8-5	REF
REF	MODULE ECO HISTORY	B-MH-M8906-8-6	REF
1	ETCHED CIRCUIT BOARD	5010675	1
4	HANDLE, FLIP CHIP-MAGENTA	9008337-06	2
8	EYELET	9006732	3
36	C1 THRU C36	CAP. .01UF 100V 20% DISC	4
4	C37 THRU C40	CAP. 6.8UF 35V 10% TANT	5
1	C43	CAP. 150PF 100V 5% DM	7
1	C44	CAP. 470PF 100V 5% DM	8
1	C41	CAP. 680PF 100V 5% DM	9
1	R3	RES 150 1/4W 5%	10
2	R6, R8	RES 220 1/4W 5%	11
2	R7, R9	RES 330 1/4W 5%	12
1	R2	RES 100 1/4W 5%	13
1	R1	RES 1K 1/4W 5%	14
2	R10, R11	RES 470 1/4W 5%	15
1	R4	RES 5.6K 1/4W 5%	16
1	R5	RES 20K 1/4W 5%	17
3	E11, E13, E14	IC 74174	18
4	E1, E2, E5, E6	IC 74175	19
2	E15, E19	IC 74153	20
2	E4, E16	IC 74157	21
2	E9, E10	IC 4006	22
1	E17	IC 7432	23
1	E29	IC 74123	24
2	E23, E35	IC 7400	25
2	E28, E35	IC 7402	26
3	E18, E30, E31	IC 7404	27
3	E22, E24, E25	IC 7408	28
1	E21	IC 7410	29
1	E20	IC 7411	30
2	E5, E7	IC 7427	31
2	E8, E34	IC 7406	32
3	E12, E26, E32	IC 7474	33
1	E27	IC 74174	34
1	C42	CAP. 50PF 100V 5% DM	35

IC TYPE	GND	+5V
74123	8	16
74174	8	16
74153	8	16
74157	8	16
74175	8	16
7442	8	16

GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTIONS ARE STATED ABOVE

IC PIN LOCATIONS



CHK	CHANGE NO.	REV
J. HESS	11-28-75	B
J. VAGIAS	8-23-77	C
J. VAGIAS	7-16-74	A

DEC NO.	EIA NO.	DEC NO.	EIA NO.

SEMICONDUCTOR CONVERSION CHART

FIRST USED ON OPTION MODEL TU16

ETCH BOARD REV D

DATE 3/4/75  
DATE 1/14/74  
DATE 1/14/74  
DATE 1/14/74

digital EQUIPMENT CORPORATION  
MAYNARD, MASSACHUSETTS

16 BIT-BIT FIDDLER

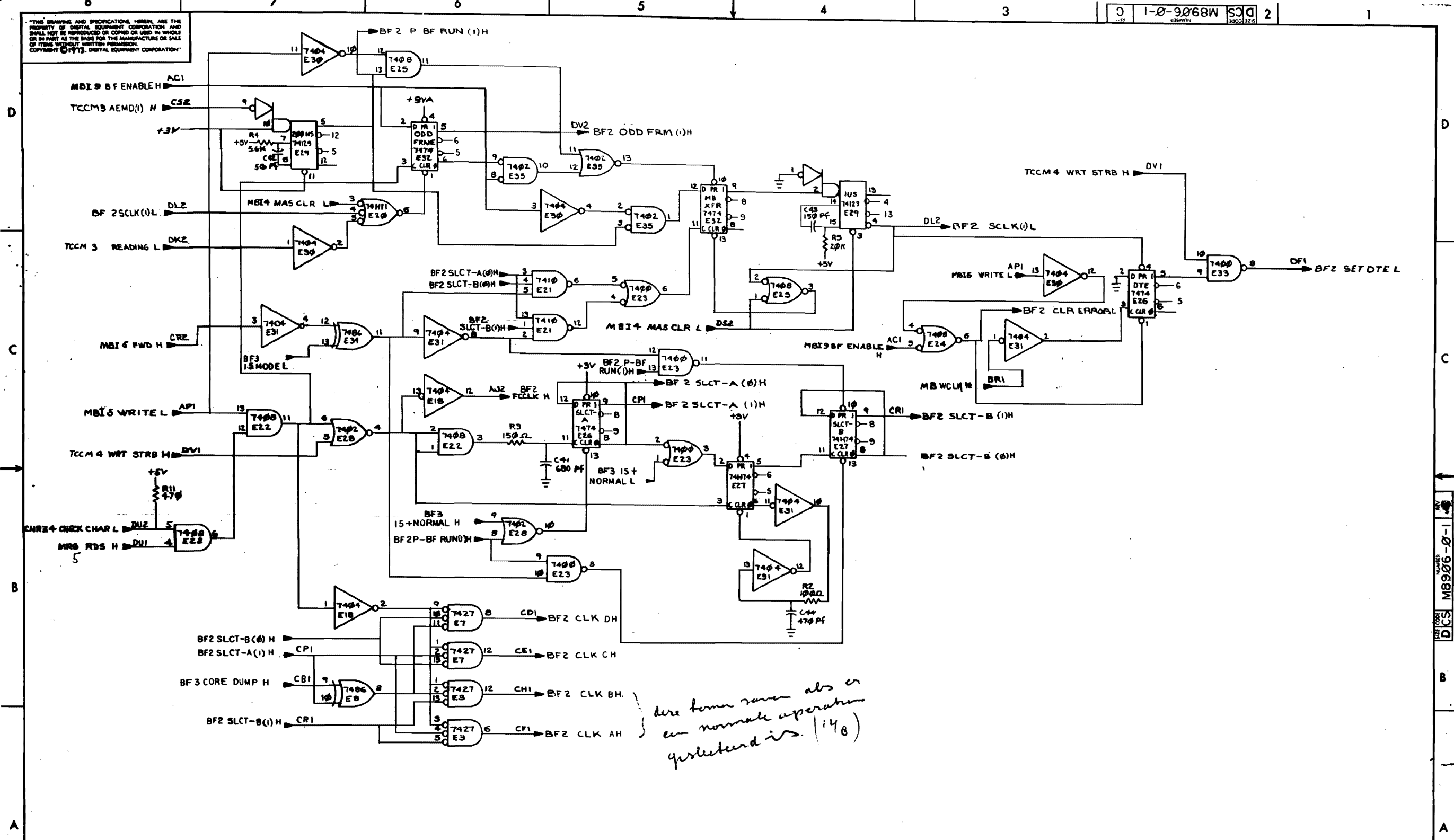
SCALE 1 OF 5

SHEET 1 OF 5

DIST. M8906-8-1

DCS M8906-8-1

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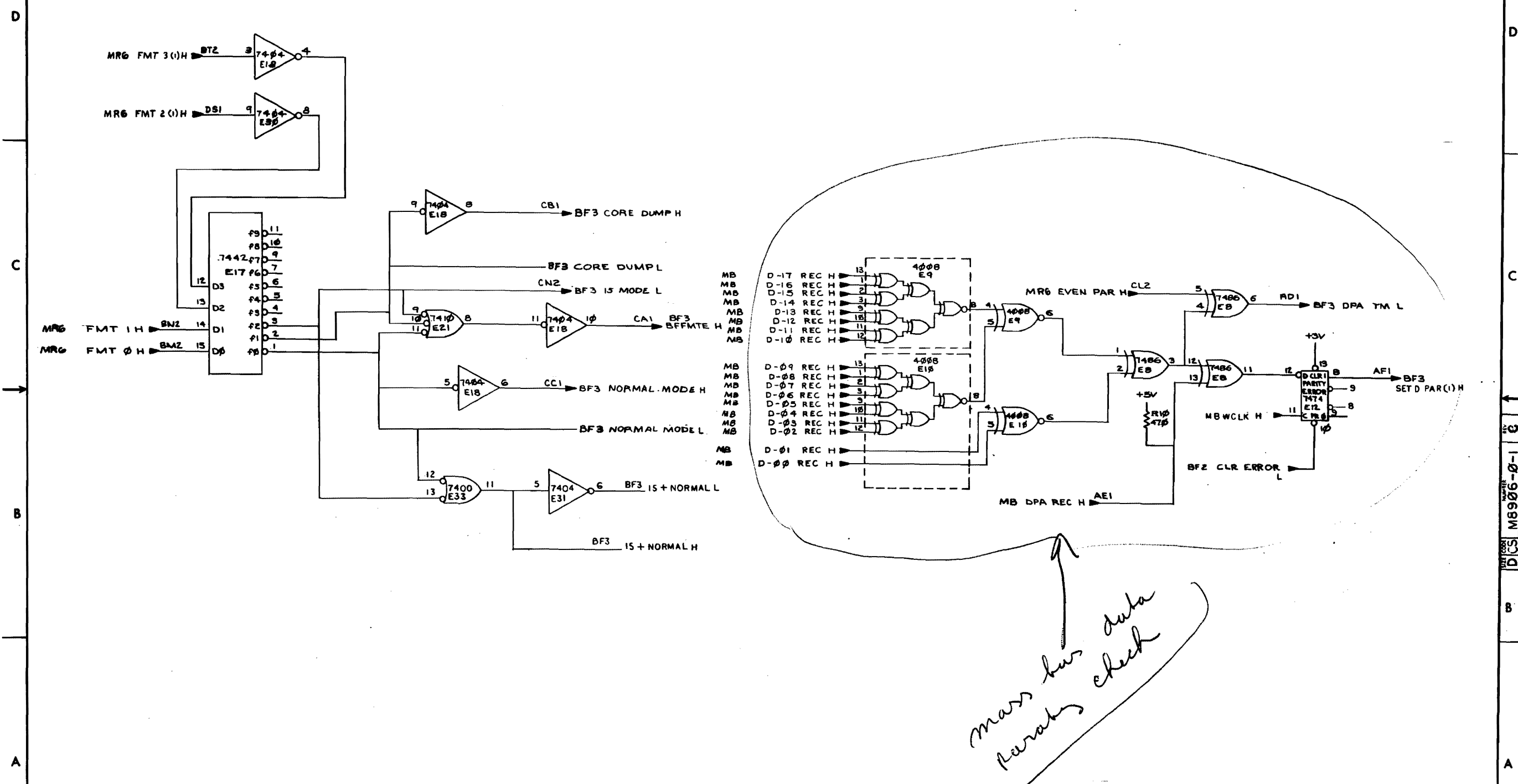


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CHK	CHANGE NO.	REV.

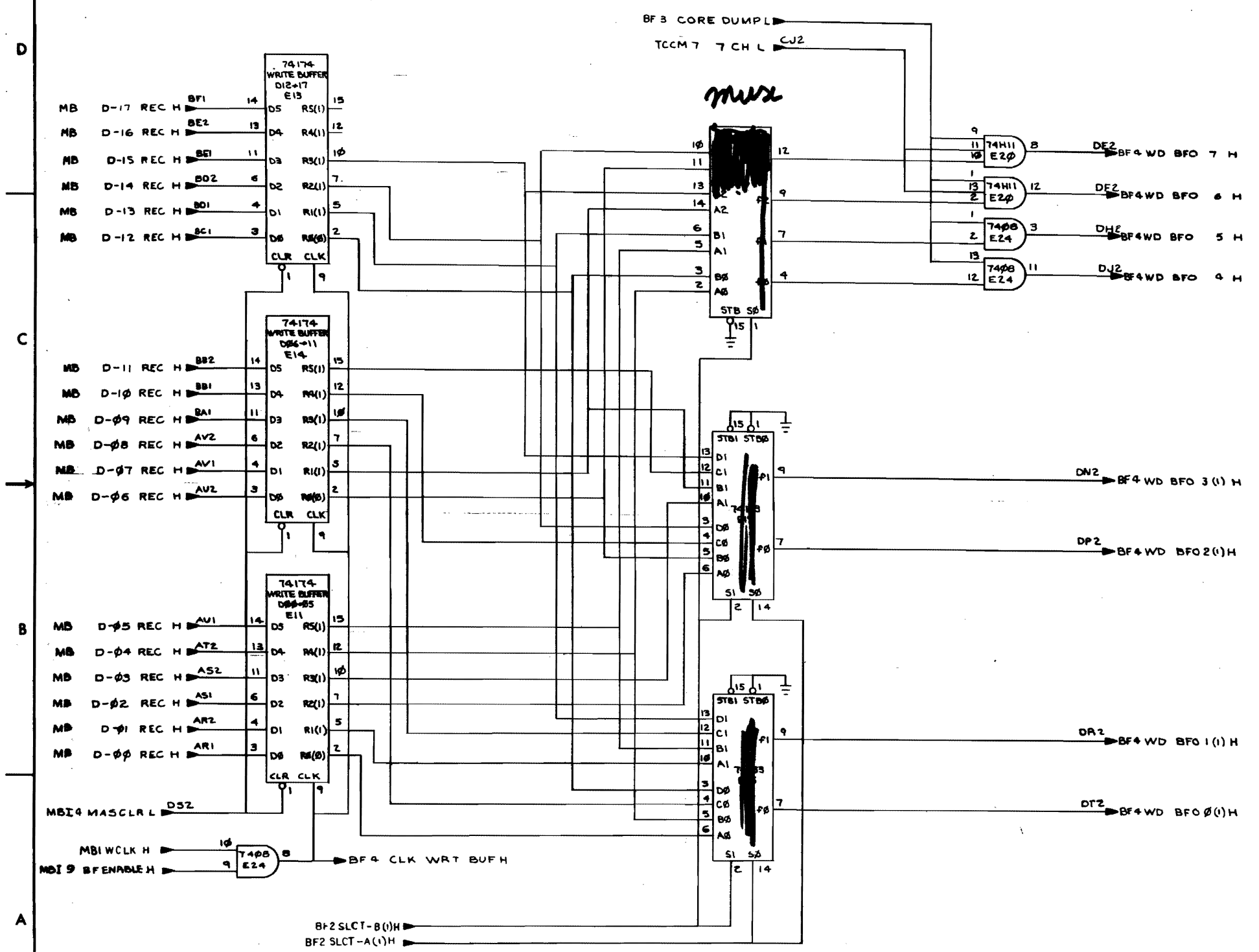
TITLE	16 BIT - (BF2)	SIZE CODE	DCS	NUMBER	M8906-0-1	REV.	C
SCALE	+	SHEET	2	OF	5	DIST.	

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REVISIONS		
CHK	CHANGE NO.	REV.

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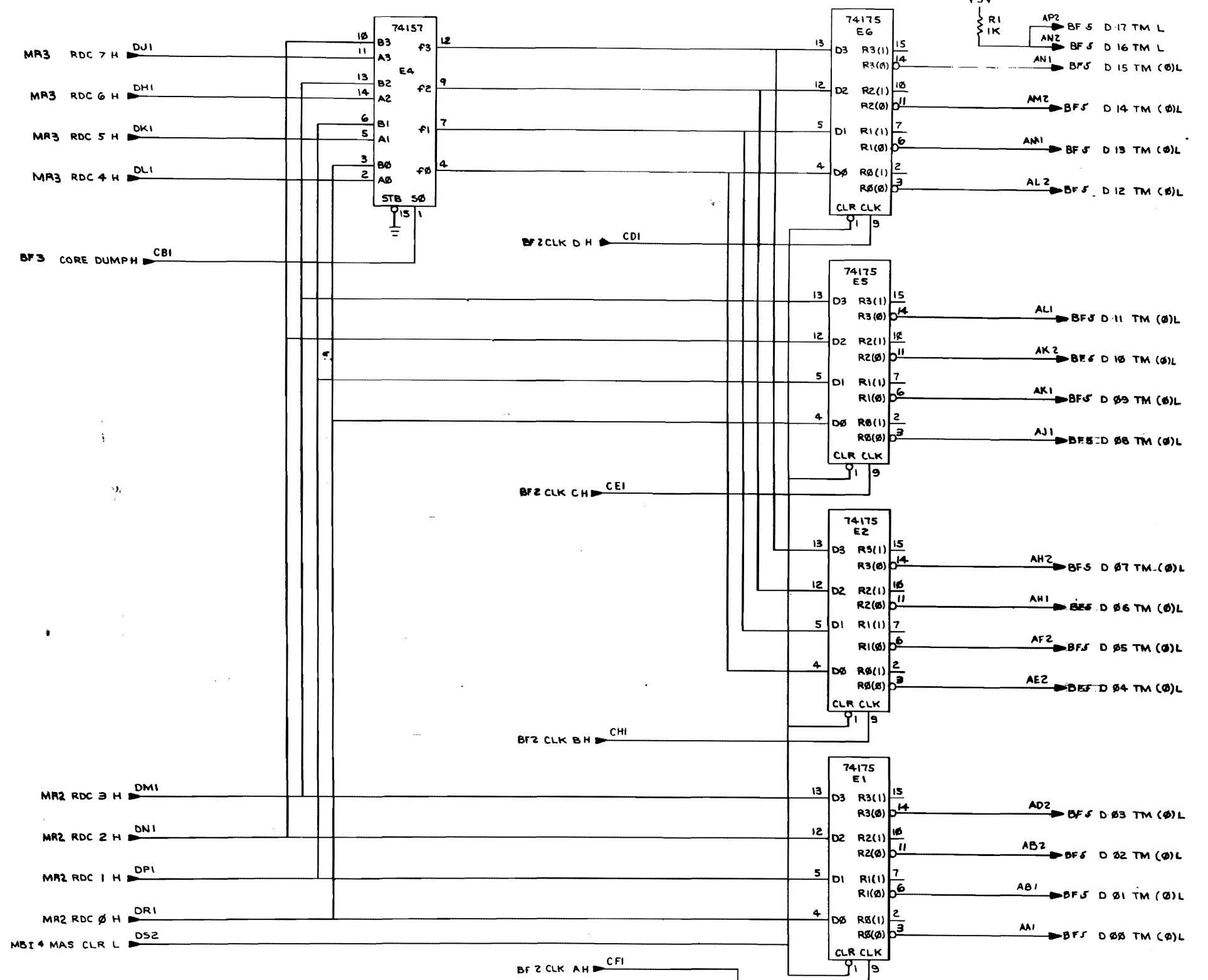
normal PDP 11

SLCT-B	SLCT-A	FUNCTION
0	0	11[(7+9TRK·CD-1ST FRM)+(CD-1ST FRM)]
0	1	11[7+9TRK·CD-2ND FRM] <i>not over DO PA</i>
1	0	11[(7+9TRK·CD-2ND FRM)+(CD-3RD FRM)]
1	1	11[7+9TRK·CD-4TH FRM]

REVISIONS		
CHK	CHANGE NO	REV

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1-0-9068W SCD 2



REVISIONS		
CHK	CHANGE NO.	REV.

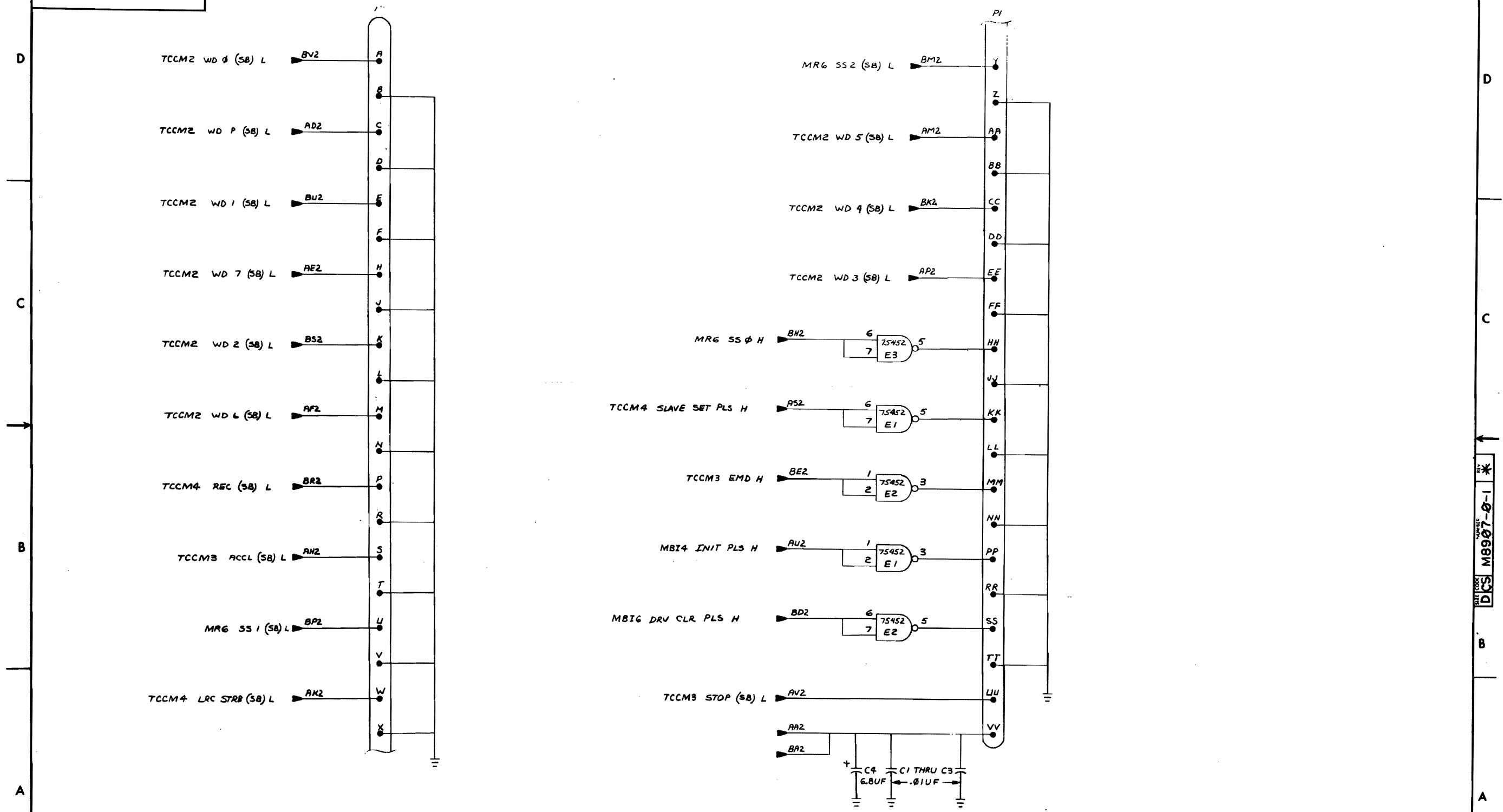
TITLE 16 BIT - (BF5) BIT FIDDLER  
 SCALE + + SHEET 5 OF 5  
 NUMBER DCS M8906-0-1  
 REV. C

DCS M8906-0-1



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DATE CODE: M8907-0-1  
 SIZE CODE: DCS  
 NUMBER: M8907-0-1  
 REV: \*



REVISIONS		
CHK	CHANGE NO	REV

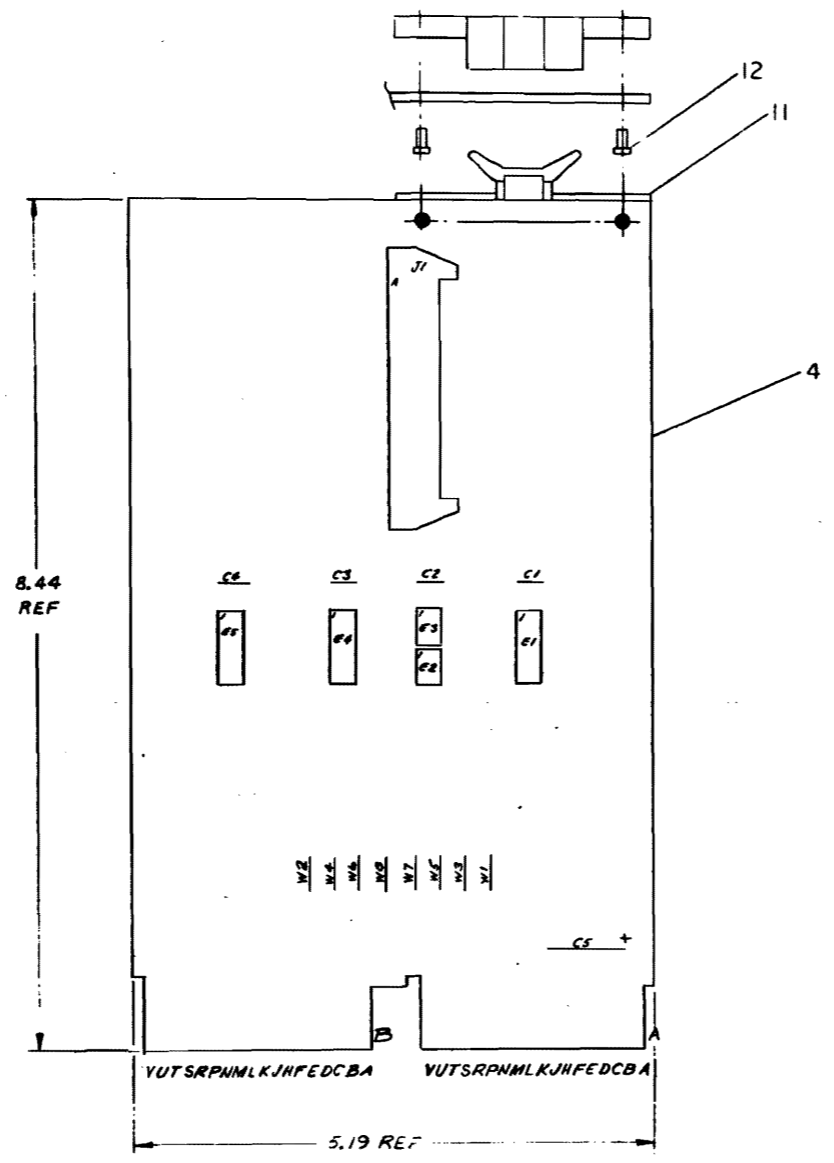
TITLE	CONNECTOR TERMINATOR	SIZE CODE	DCS	NUMBER	M8907-0-1	REV.	*
SCALE	+	SHEET	2	OF	2	DIST.	

8 7 6 5 4 3 2 1

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**NOTES:**

REF	DRILLING HOLE LOCATION	K-CD-M8908-0-4	1	
REF	DRILLING HOLE LAYOUT	D-AH-M8908-0-5	2	
REF	MODULE ECO HISTORY	B-MH-M8908-0-6	3	
1	ETCHED CIRCUIT BOARD	010982	4	
4	51 THRU 54	100 51UF 100V 20% DISC	1001610-C1	5
5	55	100 0.2UF 35V 2% TANT	1005306	6
7	CONN 40 PIN		1209941-02	7
8	23 23	IC 75452	1910645-01	8
9	E1, E4, E5	IC 11380	1911113	9
10	WI THRU WB	JUMPER, INSULATED	9009185	10
11	2	HANDLE, FLIP-CHIP MAGENTA	9008337-6	11
12	4	EYELET	9006732	12



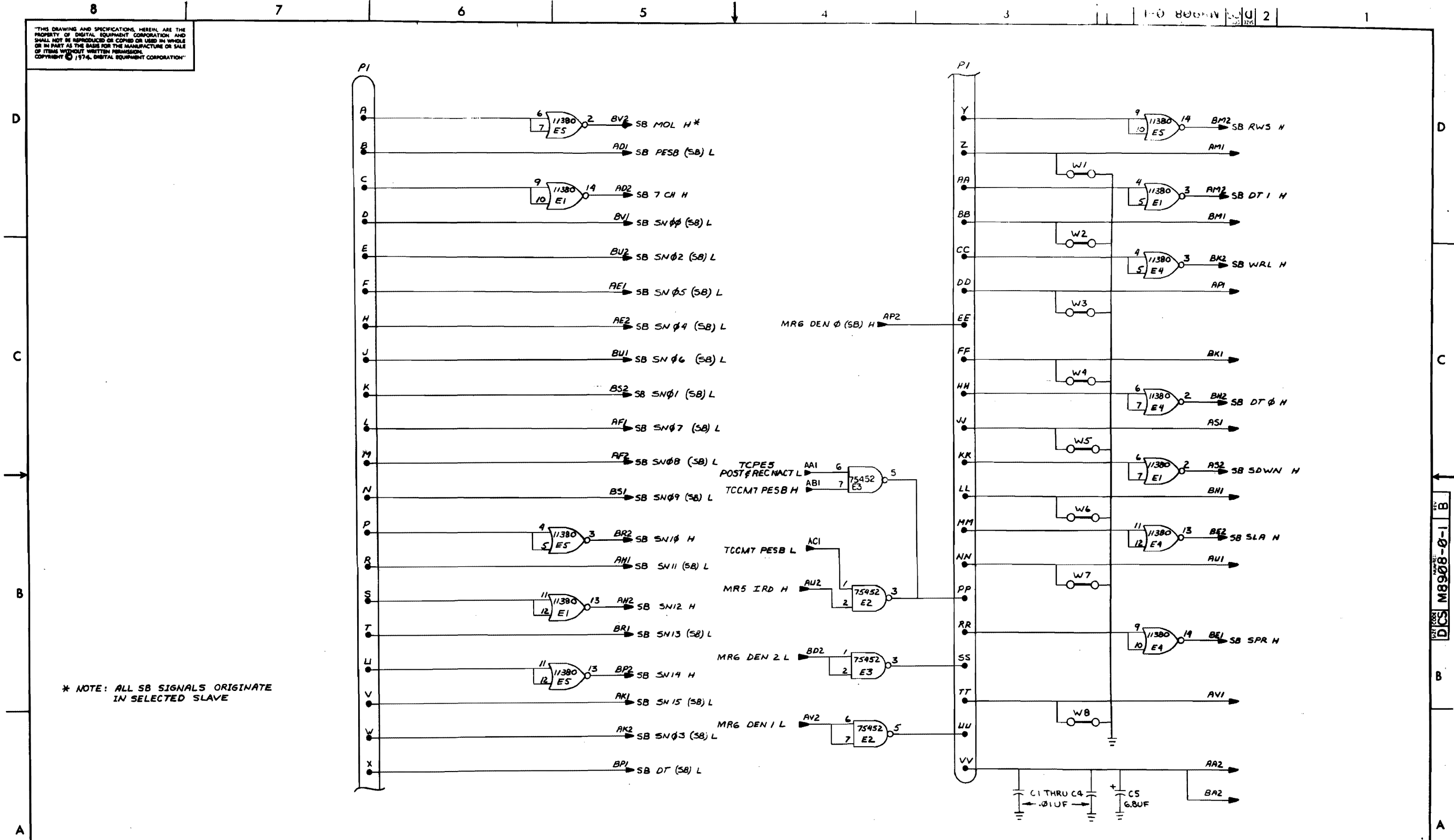
75452	4	3
11380		3
IC TYPE	GND	+5V
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE		
IC PIN LOCATIONS		

FIRST USED ON OPTION MODEL		TU1E																
ETCH BOARD REV		B																
PARTS LIST																		
QTY	REF DESIGNATION	DESCRIPTION	PART NO. ITEM NO.															
<table border="1"> <tr> <td>DRN.</td> <td>DATE</td> <td>2/27/76</td> </tr> <tr> <td>CHKD.</td> <td>DATE</td> <td></td> </tr> <tr> <td>ENG.</td> <td>DATE</td> <td></td> </tr> <tr> <td>PRD. ENG.</td> <td>DATE</td> <td></td> </tr> <tr> <td>PROD.</td> <td>DATE</td> <td></td> </tr> </table>				DRN.	DATE	2/27/76	CHKD.	DATE		ENG.	DATE		PRD. ENG.	DATE		PROD.	DATE	
DRN.	DATE	2/27/76																
CHKD.	DATE																	
ENG.	DATE																	
PRD. ENG.	DATE																	
PROD.	DATE																	
NEXT HIGHER ASSY		TITLE																
		RECEIVER TERMINATOR																
DEC NO	EIA NO	DEC NO	EIA NO															
SEMICONDUCTOR CONVERSION CHART		SCALE																
SHEET 1 OF		SHEET	OF															

DCS M8908-0-1 B

A

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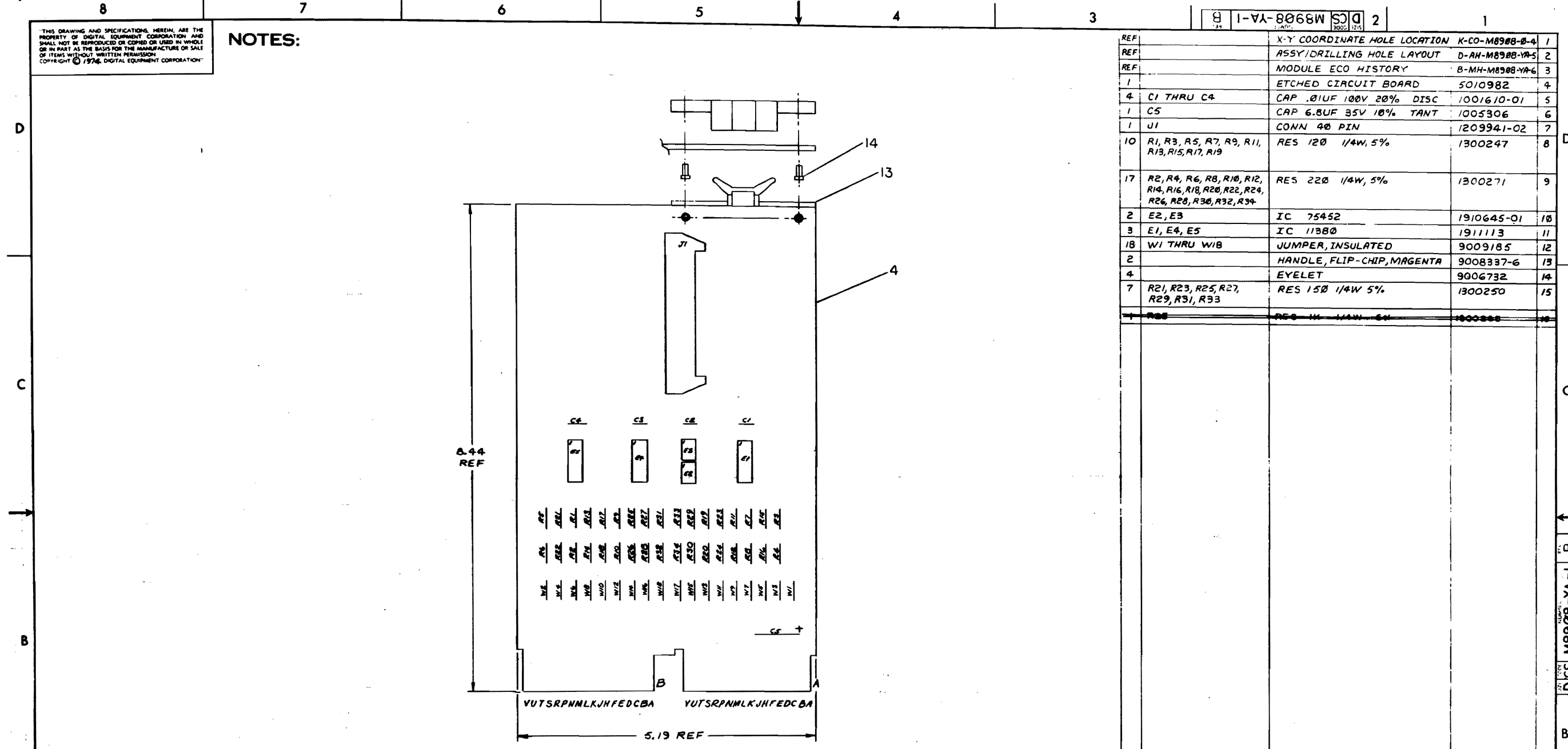
\* NOTE: ALL SB SIGNALS ORIGINATE IN SELECTED SLAVE

REVISIONS		
CHK	CHANGE NO	REV

TITLE	SIZE CODE	NUMBER	REV.
RECEIVER TERMINATOR	D CS	M8908-0-1	B
SCALE	SHEET 2 OF 2	DIST.	

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**NOTES:**



REF	DESCRIPTION	PART NO.	ITEM NO.
	X-Y COORDINATE HOLE LOCATION	K-CO-M8908-B-4	1
	ASSY/DRILLING HOLE LAYOUT	D-AH-M8908-YA-5	2
	MODULE ECO HISTORY	B-MH-M8908-YA-6	3
1	ETCHED CIRCUIT BOARD	5010982	4
4	C1 THRU C4	CAP .01UF 100V 20% DISC	1001610-01
1	C5	CAP 6.8UF 35V 10% TANT	1005306
1	U1	CONN 40 PIN	1209941-02
10	R1, R3, R5, R7, R9, R11, R13, R15, R17, R19	RES 120 1/4W, 5%	1300247
17	R2, R4, R6, R8, R10, R12, R14, R16, R18, R20, R22, R24, R26, R28, R30, R32, R34	RES 220 1/4W, 5%	1300271
2	E2, E3	IC 75452	1910645-01
3	E1, E4, E5	IC 11380	1911113
18	W1 THRU W18	JUMPER, INSULATED	9009185
2		HANDLE, FLIP-CHIP, MAGENTA	9008337-6
4		EYELET	9006732
7	R21, R23, R25, R27, R29, R31, R33	RES 150 1/4W 5%	1300250

IC TYPE	QTY	LOCATIONS
75452	4	8
11380	1	8
IC TYPE	GND	+5V

GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE.

**IC PIN LOCATIONS**

CHK	CHANGE NO.	REV

DEC NO.	EIA NO.	DEC NO.	EIA NO.

DRN	DATE

**digital** EQUIPMENT CORPORATION  
 MAINTAINED MANUFACTURING

TITLE: **RECEIVER TERMINATOR**

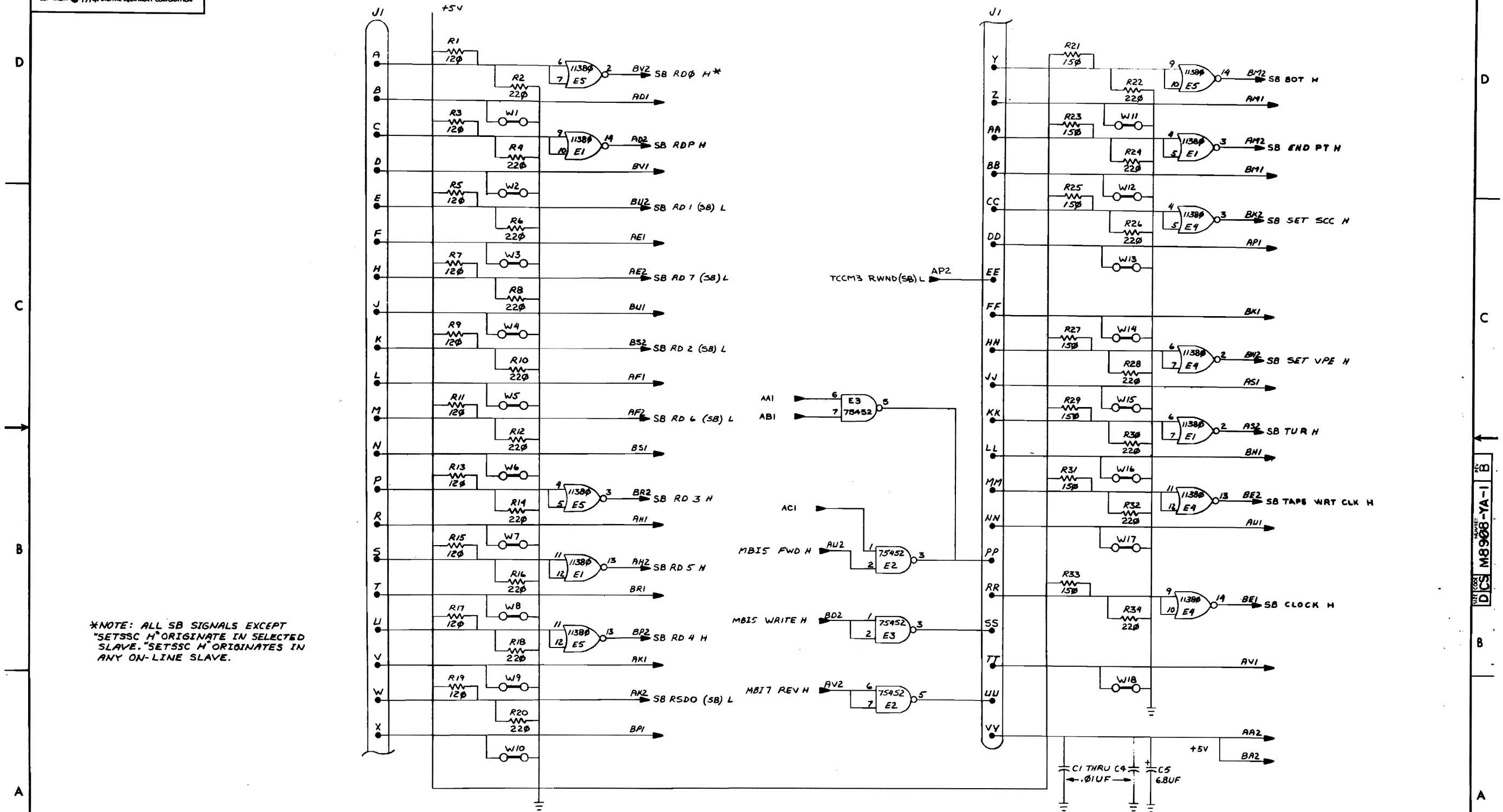
SIZE CODE: DCS NUMBER: M8908-YA-1 REV: B

SHEET 1 OF 2

DCS M8908-YA-1 B

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1-VA-8098M DCS 2



\*NOTE: ALL SB SIGNALS EXCEPT "SETSSC H" ORIGINATE IN SELECTED SLAVE. "SETSSC H" ORIGINATES IN ANY ON-LINE SLAVE.

REVISIONS		
CHK	CHANGE NO	REV.

TITLE	RECEIVER TERMINATOR	SIZE CODE	DCS	NUMBER	M8908-YA-1	REV.	B
SCALE	+	SHEET	2	OF 2	DIST.		

DCS M8908-YA-1 B  
 DCS M8908-YA-1 B

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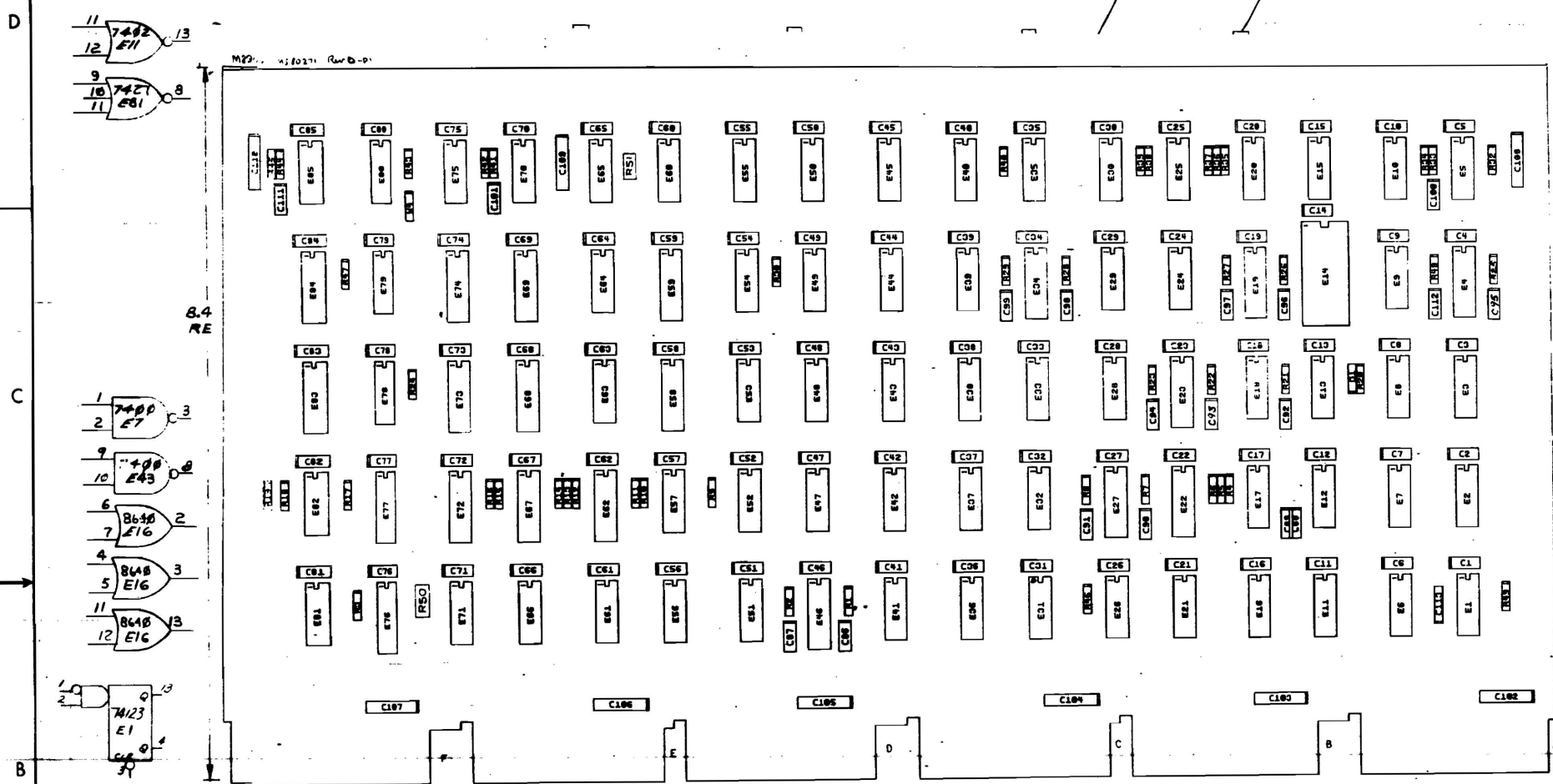
**NOTES:**

- 1. UNLESS OTHERWISE SPECIFIED:
- A. RESISTANCE IS IN OHMS.
- B. CAPACITANCE IS IN MICROFARADS.

SPARES

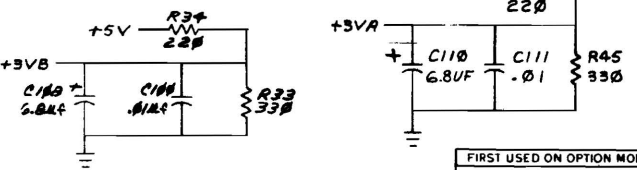
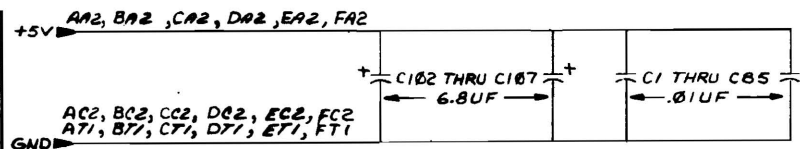
WR WIRE, #24 AWG GRN. 9107689-55 54 REF

1-0-00PWS00 2



QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
		X-Y COORDINATE HOLE LOCATION	K-CO-M8909-0-4	1
		ASSY, DRILLING HOLE LAYOUT	A-AH-M8909-0-5	2
		MODULE ECO HISTORY	B-MH-M8909-0-6	3
		ETCHED CIRCUIT BOARD	5010682	4
66	C1, C85, C100, C101, C111	CAP, 0.1UF 100V 20% DISC	1001610	5
1	C90	CAP, 270PF 100V 5% DM	1000022	6
4	C88, C98, C92, C99	CAP, 1000PF 100V 5% DM	1000042	7
1	E70	TC 74124	1010041	8
2	C95, C112	CAP 10PF 100V 5% DV	1000006	9
3	C102-C110	CAP, 6.8UF 35V 10% STANT	1005306	10
5	C86, C87, C93, C94, C97	CAP 27PF 100V 5% DM	1001739	11
1	C91	CAP 330PF 100V 5% DM	1000023	12
1	D1	DIODE D664	1100114	13
2	R29, R30	RES 27K 1/4W 5%	1305346	14
5	R2, R8, R26, R27, R47	RES 10K 1/4W 5%	1300479	15
4	R1, R7, R22, R23	RES 6.8K 1/4W 5%	1301423	16
29	R3-R6, R9-R20, R30, R32, R35-R40, R43, R24, R46, R50, R51	RES 1K 1/4W 5%	1300365	17
3	R33, R41, R45	RES 330 1/4W 5%	1300295	18
4	R21, R34, R42, R44	RES 220 1/4W 5%	1300271	19
8	E3, E7, E29, E32, E43, E52, E53, E64	IC 7400	1905575	20
7	E2, E8, E11, E33, E39, E49, E51	IC 7402	1909004	21
5	E13, E37, E41, E48, E82	IC 7404	1909886	22
5	E12, E26, E44, E47, E71	IC 7408	1910155	23
2	E42, E56	IC 7410	1905576	24
1	E25	IC 7417	1909829	25
5	E17, E24, E38, E61, E81	IC 7427	1910878	26
4	E9, E55, E83, E78	IC 7430	1905578	27
3	E28, E54, E57	IC 7440	1905579	28
1	E31	IC 7450	1905580	29
14	E5, E10, E15, E20, E30, E35, E40, E45, E60, E65, E70, E75, E80, E85	IC 7474	1905547	30
1	E72	IC 7475	1909050	31
1	E22	IC 7485	1910224	32
1	E18	IC 7486	1910011	33
1	E16	IC 8640	1914469	34
7	E19, E23, E27, E34, E48, E4, E1	IC 74123	1910436	35
1	E76	IC 74145	1910047	36
1	E77	IC 74151	1909936	37
1	E14	IC 74154	1909701	38
1	E82	IC 74155	1910856	39
2	E84, E79	IC 74180	1910724	40
4	E59, E89, E74, E84	IC 74183	1910018	41
1	E36	IC 384	1909486	42
4	E88, E88, E73, E83	IC 8234	1911315	43
1		HANDLE, HEX	1210711-2	44
12		EYELET	9006732	45
1	C96	CAP 82PF 100V 5% DM	1000015	46
1	R25	RES 20K 1/4W 5%	1302391	47
1	R47	RES 470 1/4W 5%	1300316	48
1	R48	RES 5.6K 1/4W 5%	1301874	49
1	E67	IM 5600	23068A1	50
1	E6	IC 7416	1909928	51
1	W4	JUMPER, INSULATED	9009185	52
1	C13	CAP, 22UF, 20V, 10% TANT	1005218	53

DEC	IC TYPE	GND	+5V
7475	18	5	
7485	8	16	
74123	8	16	
74145	8	16	
74151	8	16	
74154	12	24	
74155	8	16	
74193	8	16	
384	1	8	
8234	8	16	



FIRST USED ON OPTION MODEL  
TU16

ETCH BOARD REV C

DRN	M. Harris	DATE	11-9-79
CHKD		DATE	1/22/79
ENG		DATE	1/22/79
PROJ. ENG.		DATE	1/22/79
PROD.		DATE	1/22/79

digital EQUIPMENT CORPORATION  
TITLE: MASS BUS INTERFACE (MBI I)

SIZE CODE: DCS M8909-0-1  
NUMBER: 1  
REV: E

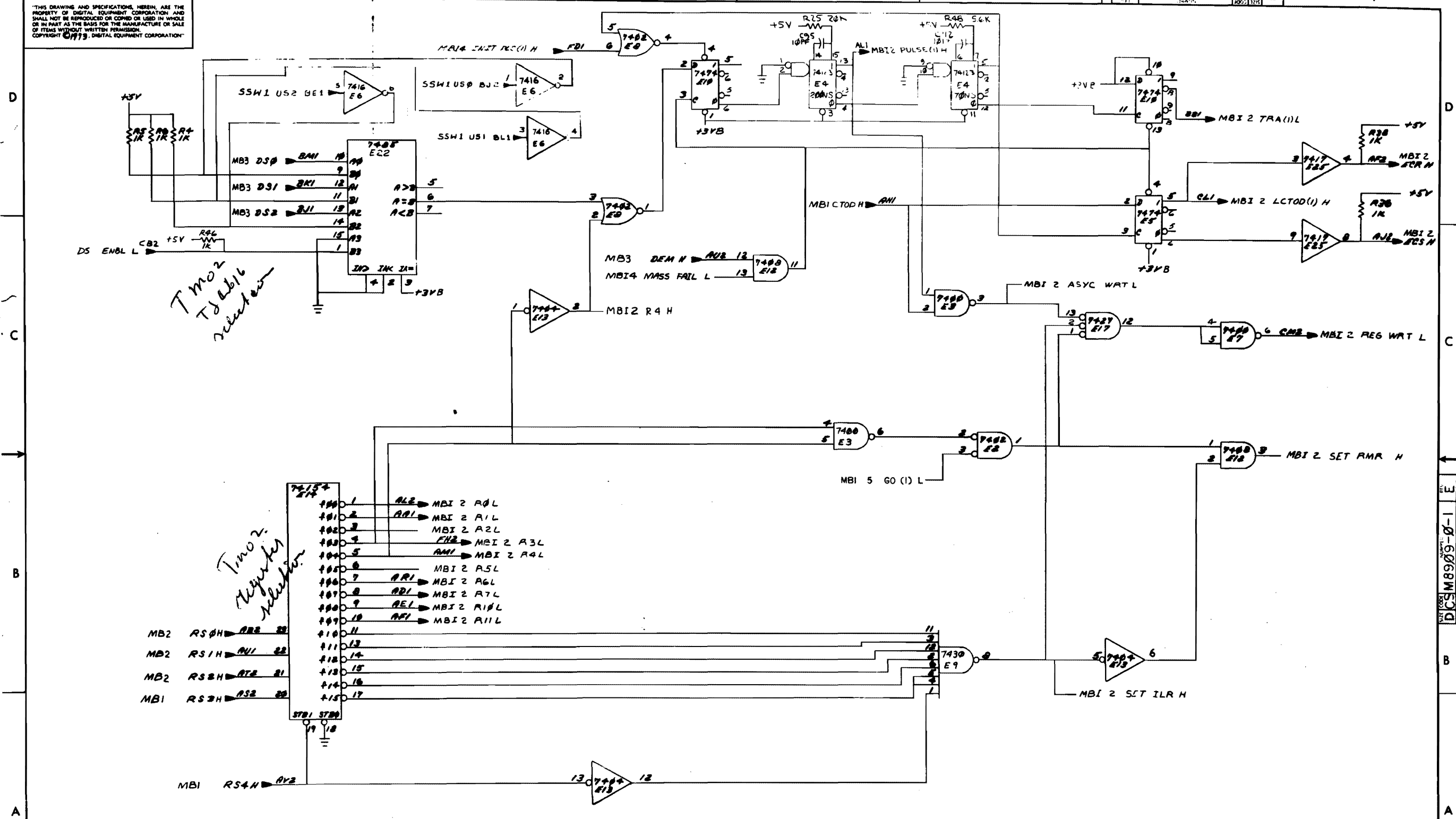
SEMICONDUCTOR CONVERSION CHART

DEC NO.	EIA NO.	DEC NO.	EIA NO.

SCALE: 1 OF 11

DCS M8909-0-1

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*Tmo2  
T5 10/16  
reduction*

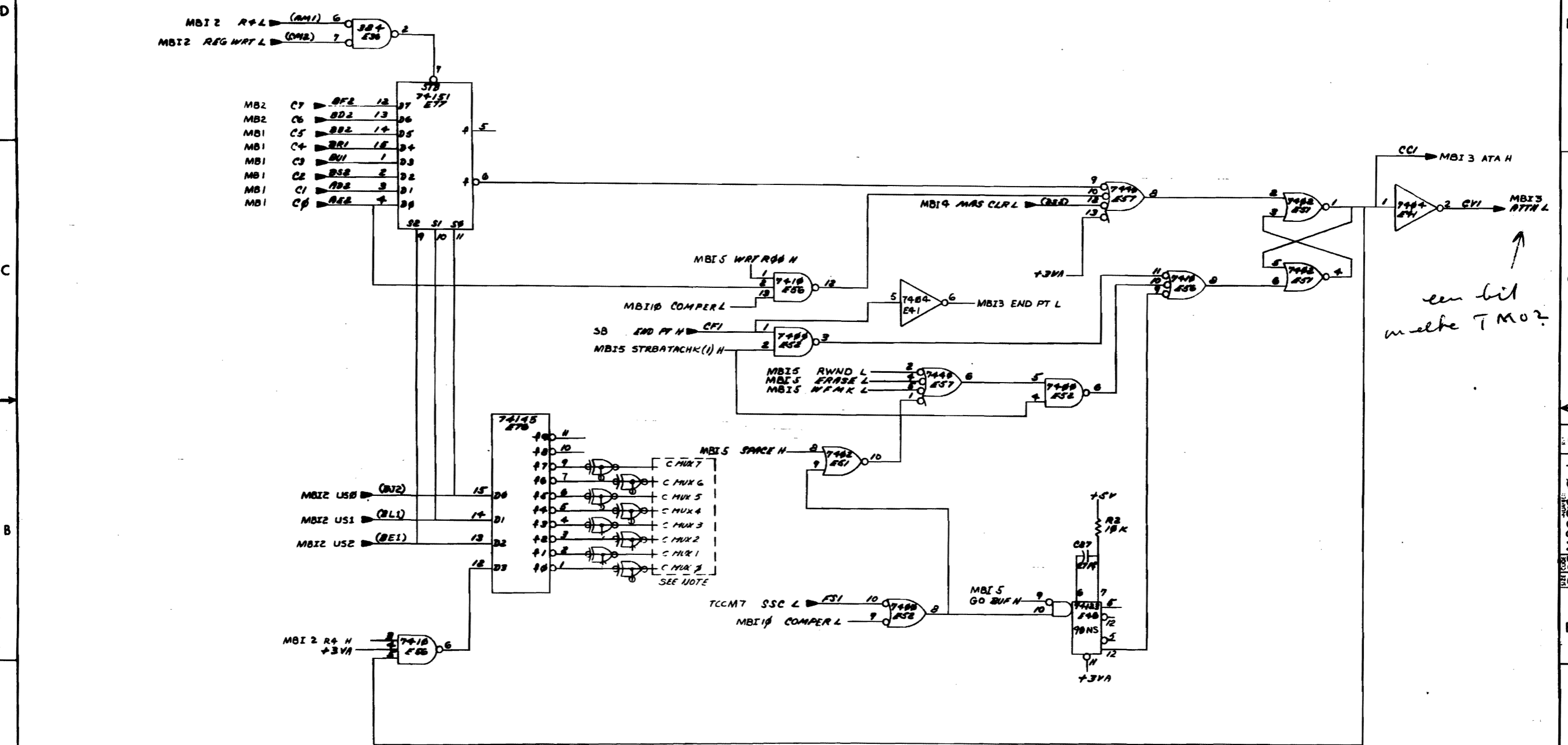
*Tmo2  
reduction*

REVISIONS		
CHK	CHANGE NO	REV

TITLE	MASS BUS INTERFACE (MBI 2)	SIZE CODE	DCS M8909-0-1	NUMBER	1	REV.	E
SCALE		SHEET	2 OF 11	DIST.			

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1-0-6068WSCD 2



can bit  
make TMO?

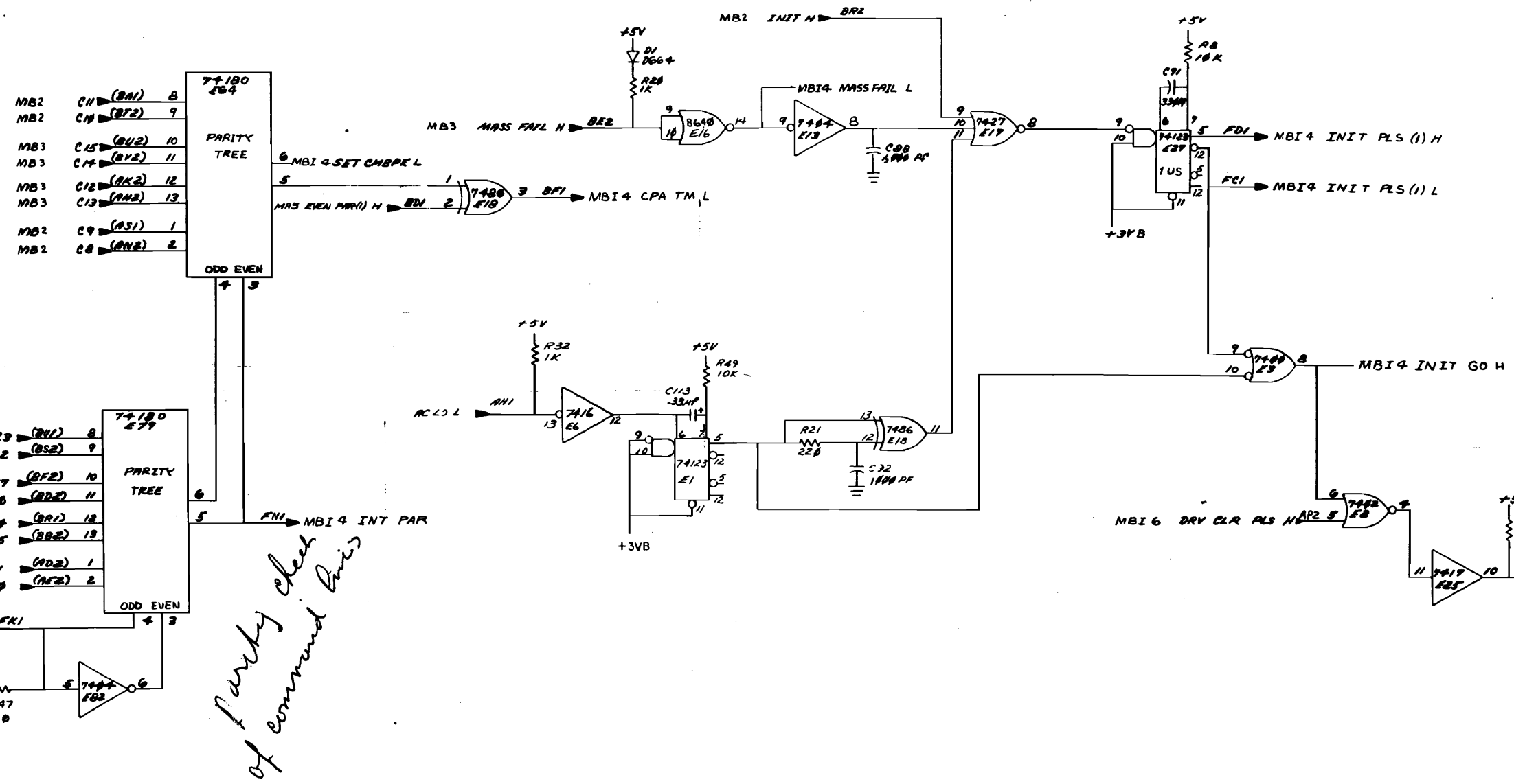
NOTE:  
CMUX LINES ARE GENERATED ON M8909, M8903, M8905

REVISIONS		
CHK	CHANGE NO	REV

TITLE	MASS BUS INTERFACE (MBI3)	SIZE CODE	DCS	NUMBER	M8909-0-1	REV.	E
SCALE	1/1	SHEET	3 OF 11	DIST.			

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DCS M8909-0-1 E



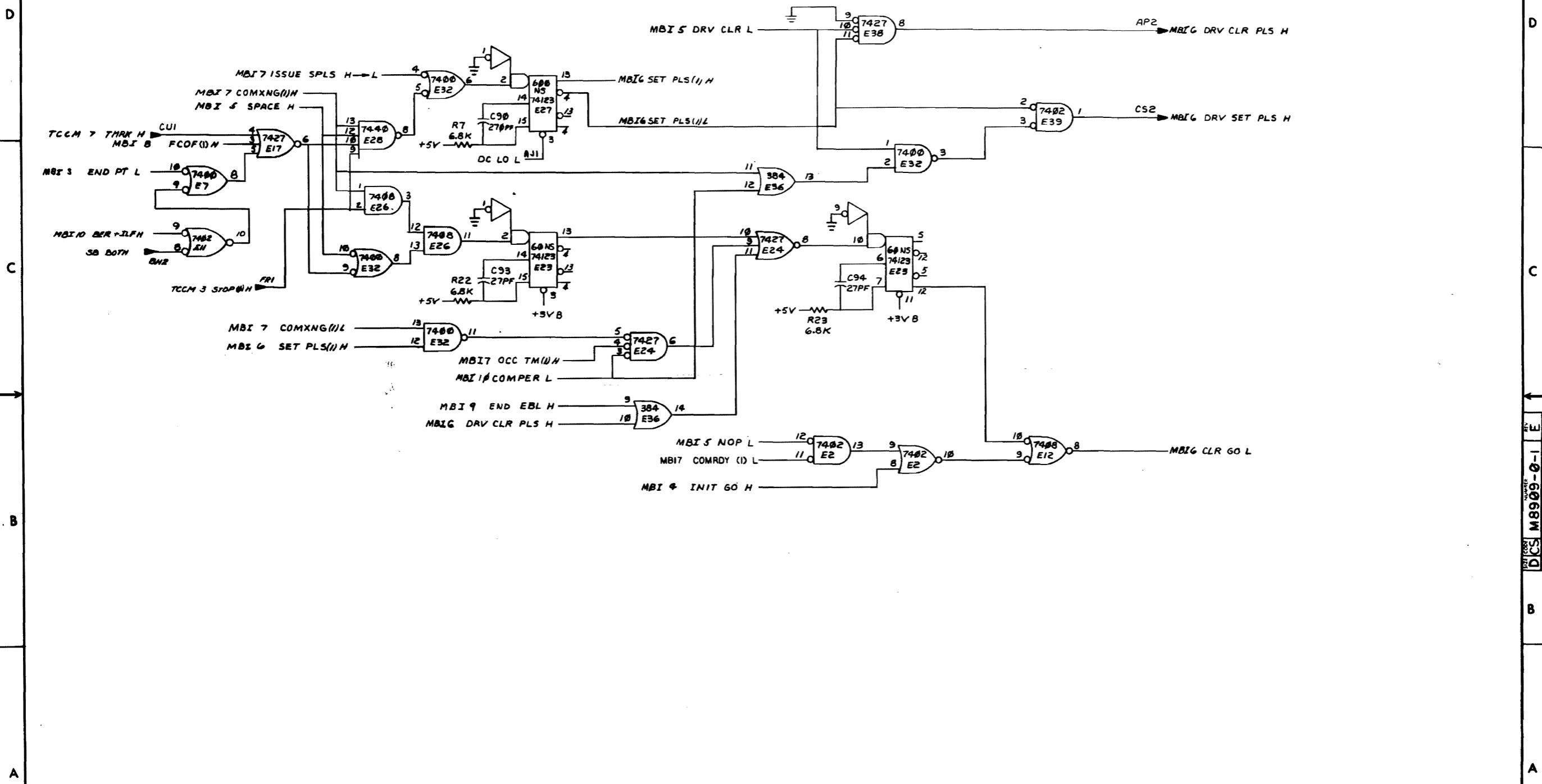
*Parity check of command bus*

REVISIONS		
CHK	CHANGE NO	REV

TITLE	MASS FUS (MBI 4) INTERFACE	SIZE CODE	DCS M8909-0-1	NUMBER	E
SCALE	1	SHEET	4 OF 11	DIST.	



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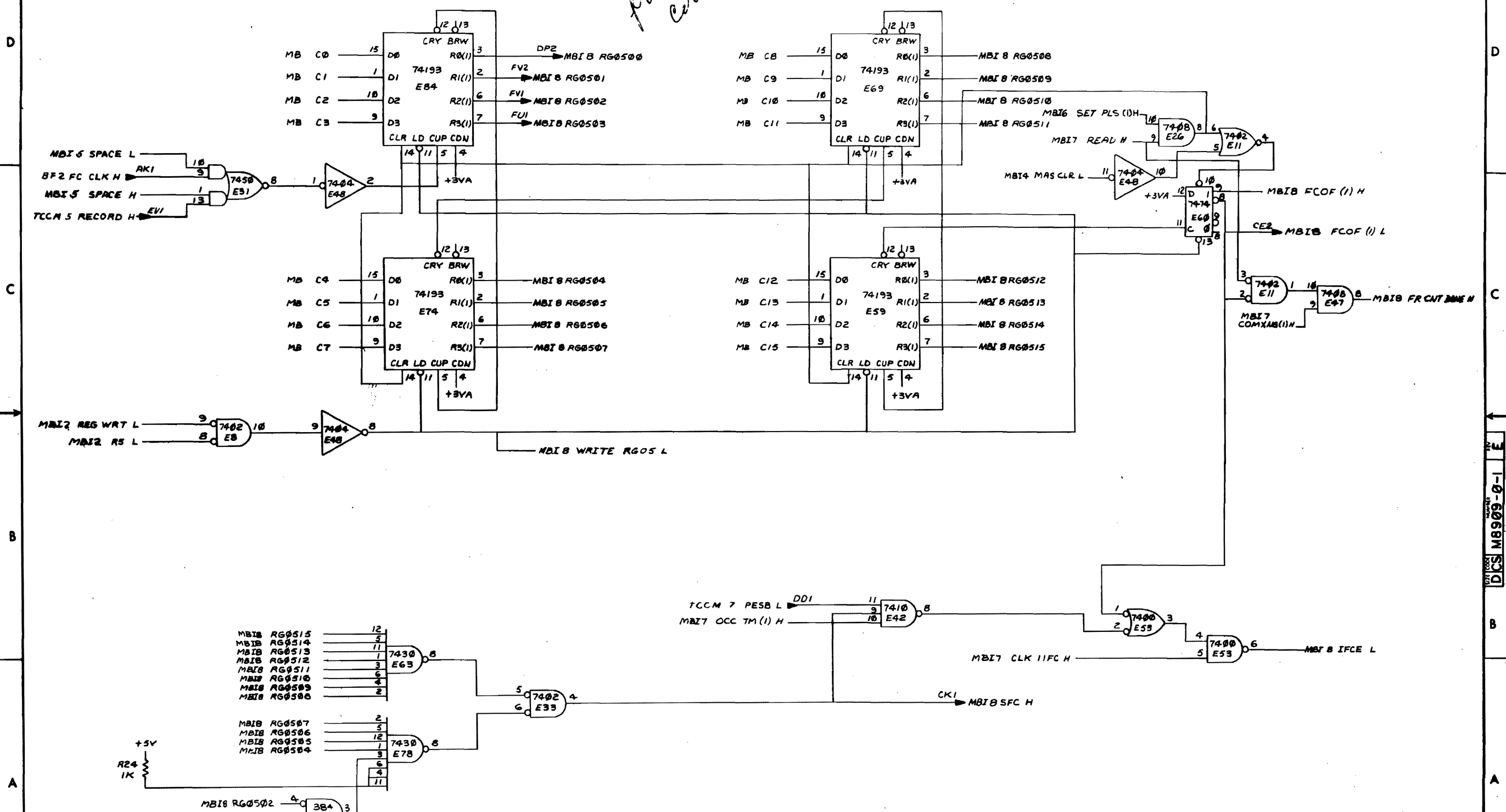
REVISIONS		
CHK	CHANGE NO.	REV

TITLE	MASS MBIC BUS INTERFACE	SIZE CODE	D/CS	NUMBER	M8909-0-1	REV.	E
SCALE	+	SHEET	5	OF	11	DIST.	



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*frame current*

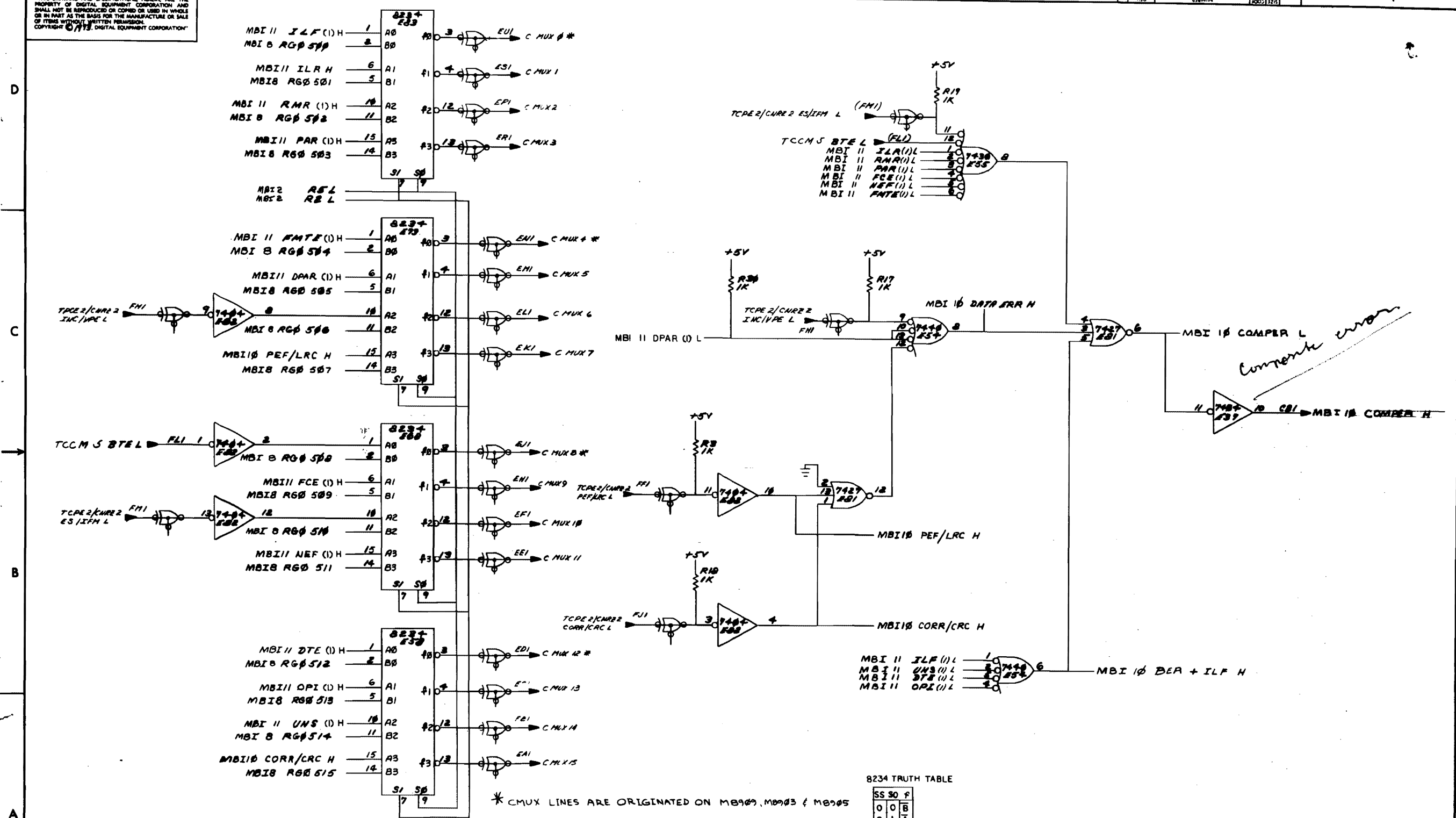


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	MASS BUS (MBI 8) INTERFACE	SIZE CODE	D CS	NUMBER	M8909-0-1	REV.	E
SCALE	+	SHEET	8	OF	11	DIST.	



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8234 TRUTH TABLE

SS	SO	F
0	0	B
0	1	A
1	0	B
1	1	H

\* CMUX LINES ARE ORIGINATED ON MB909, MB903 & MB905

REVISIONS

CHK	CHANGE NO.	REV.

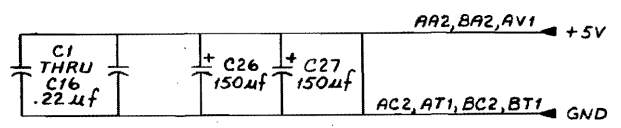
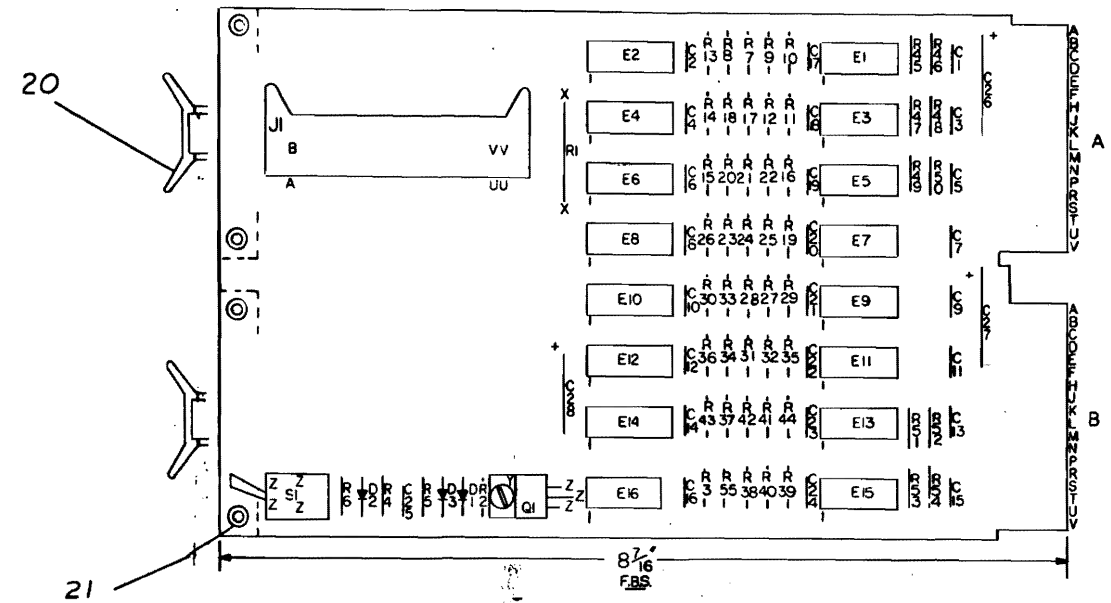


8 7 6 5 4 3

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**NOTES:**

DIGITAL EQUIP. CORP.



DEC. 75106 B	13	7	14
DEC. 75107	13	7	14
DEC. 75113	—	8	16
IC TYPE	-5V	GND	+5V

GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE.

IC PIN LOCATIONS

DEC FORM NO. 040-120A

1-VA-0069W SO 2

REF	DESCRIPTION	PART NO.	ITEM NO.
REF	X-Y COORDINATE HOLE LOCATION	K-CO-M5903-YA-6	1
REF	ASSY/DRILLING - HOLE LAYOUT	D-AH-M5903-YA-3	2
REF	MODULE ECO HISTORY	B-MH-M5903-YA-6	3
1	ETCHED CIRCUIT BOARD	5010502	4
2	C26, C27	CAP. 150 $\mu$ f 6V 20%	1005572
25	C1 THRU C25	CAP. .22 $\mu$ f 50V	1010274
2	D2, D3	DIODE D672	1105275
1	D1	DIODE IN 4733A 51V	1109943
1	R4	RES. 330, 5%, 1/4 W	1300295
1	R6	RES. 4.7K, 5%, 1/4 W	1300447
1	R5	RES. 750, 5%, 1/4 W	1301401
38	R7 THRU R44	RES. 82, 5%, 1/4 W	1301477
1	J1	CONNECTOR SCOTCH FLEX	1209941-1
9	E1, 3, 5, 7, 9, 11, 13, 15, 16	I. C. DEC. 75108 B	1910725
7	E2, E4, E6, E8, E10, E12, E14	I. C. DEC. 75113	1911341
2	HANDLE, FLIP-CHIP MAGENTA	9008337-06	20
4	EYELET	9009000	21
1	C28	CAP. 6.8 $\mu$ f 35V 10%	1005306
1	S1	SWITCH	1210209
1	R1	RES. 36, 2W, 5%	1308904
1	R2	RES. 470, 1/4 W 5%	1300316
1	Q1	TRN. D45H8C	1510708-1
1	SCREW, PHM. 4-4Y 1/4	9008301-1	28
1	NUT, KEP 4-40	9006557	29
12	R3, R45 - R65	RES. 3.3K, 1/4 W, 5%	1500439

FIRST USED ON OPTION MODEL

ETCH BOARD REV F

DRG. DATE 8/14/73  
 DES. DATE 8/21/73  
 ENG. DATE 8/21/73  
 PROJ. ENG. DATE 8/21/73  
 NEXT HIGHER ASSY

digital EQUIPMENT CORPORATION  
 MASS BUS TERMINAL

SIZE CODE DCS M5903-YA-1  
 NUMBER C

SCALE 1 of 2

REVISIONS

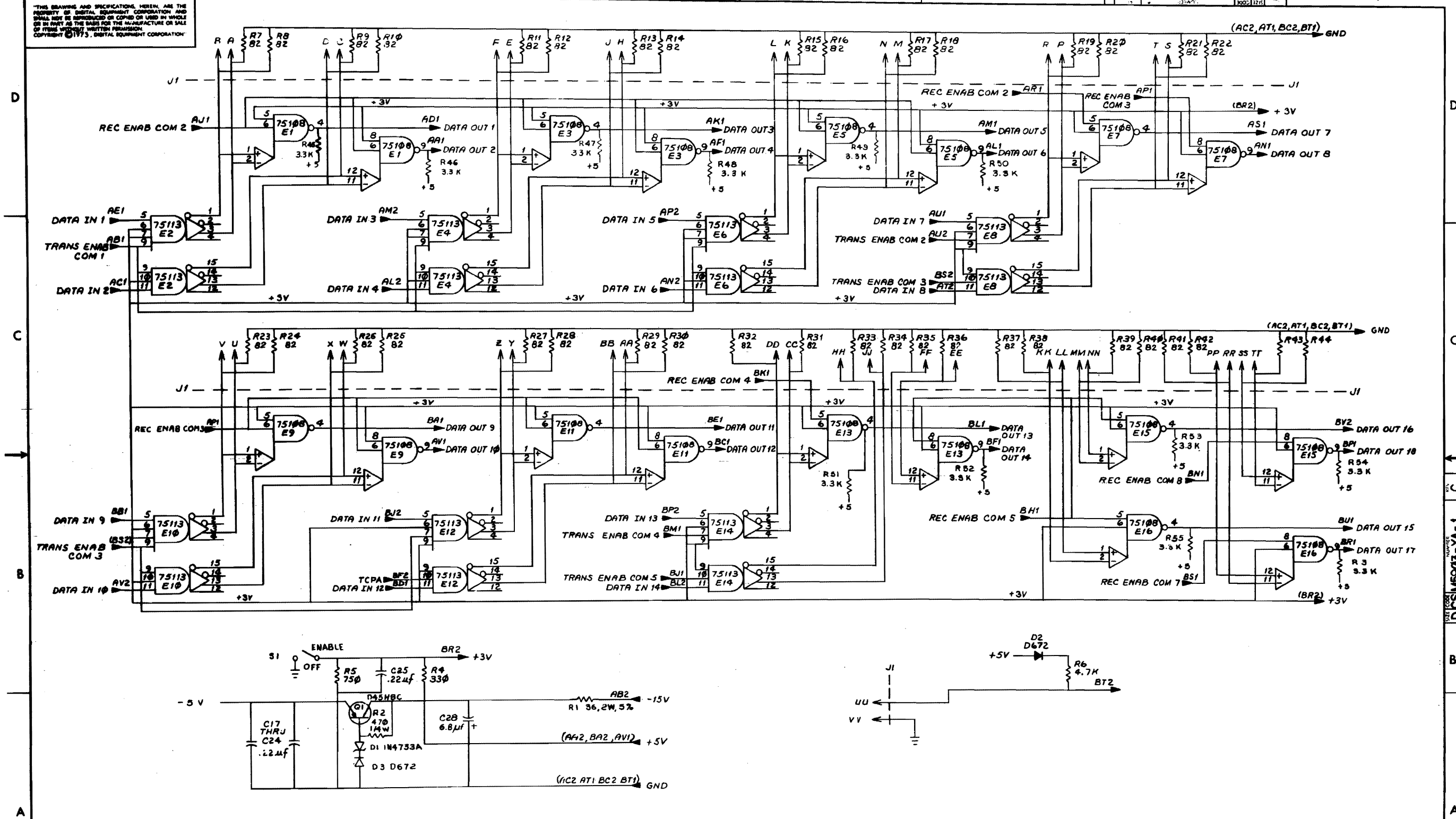
CHK	CHANGE NO.	REV
D. POTTER	1	A
D. POTTER	2	B
D. POTTER	3	C
D. POTTER	4	D
D. POTTER	5	E
D. POTTER	6	F

SEMICONDUCTOR CONVERSION CHART

DEC. NO.	EIA NO.	DEC. NO.	EIA NO.
IN 4733A	NONE		
D672	IN 3653		

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D CS M5903-YA-1

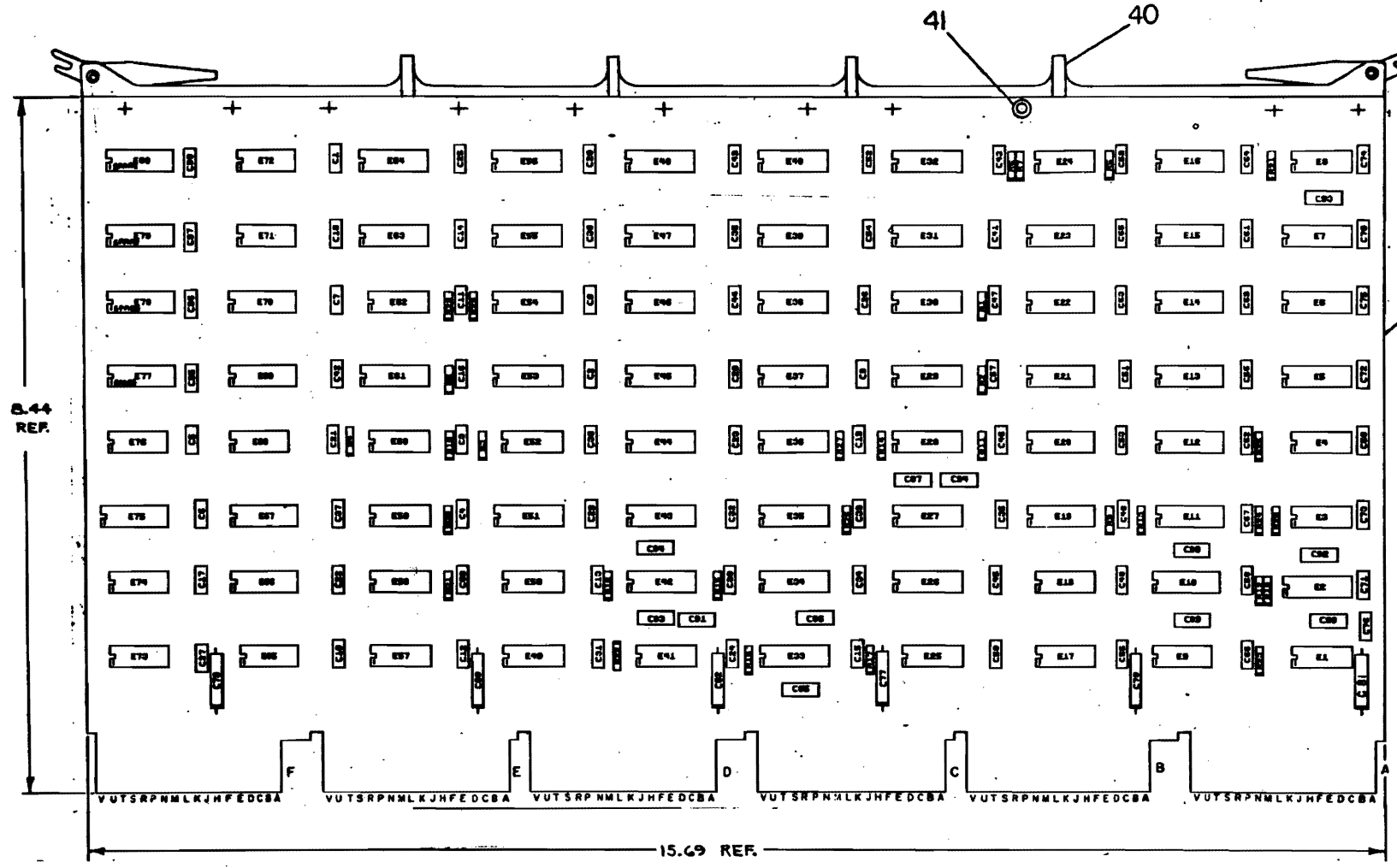


REVISIONS		
CHK	CHANGE NO	REV

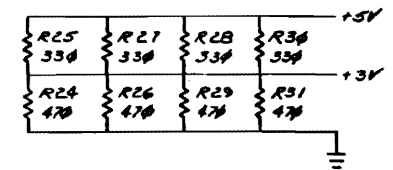
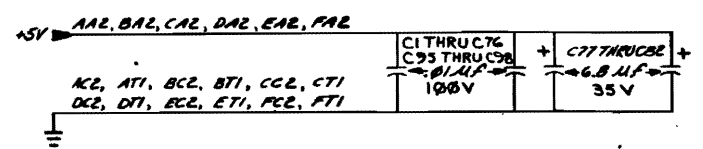
TITLE	SIZE CODE	NUMBER	REV.
MASS BUS TERMINAL	D CS	M5903-YA-1	C
SCALE	SHEET 2 OF 2	DIST.	

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**NOTES:**  
 1. UNLESS OTHERWISE SPECIFIED:  
 A. ALL RESISTORS ARE 1/4 W, ± 5%



REF	CIRCUIT SCHEMATIC	C-CS-M8914-0-1	REF
REF	X-Y COORDINATE HOLE LOCATION	K-CD-M8914-0-4	1
REF	ASSY/DRILLING HOLE LAYOUT	D-AH-M8914-0-5	2
REF	MODULE ECO HISTORY	B-MH-M8914-0-6	3
1	ETCHED CIRCUIT BOARD	501107-00	4
1	C83 CAP 1000PF, 100V, 5% MYLAR	1800042-00	5
5	C84 THRU C88 CAP 102PF, 100V, 5% MYLAR	1800064-00	6
2	C89, C90 CAP 27PF, 100V, 5% MYLAR	1001739-00	7
1	C91 CAP 33PF, 100V, 5% MYLAR	1800009-00	8
1	C82 CAP 100PF, 100V, 5% MYLAR	1000016-00	9
1	C93 CAP 180PF, 100V, 5% MYLAR	1800020-00	10
1	C94 CAP 270PF, 100V, 5% MYLAR	1800022-00	11
80	C13THRU C16, C95THRU C98 CAP .01UF, 100V, 20% DISC	180160-01	12
6	C77THRU C82 CAP 6.8UF, 35V, 10% S.TANT	1005306-00	13
4	R25, R27, R28, R30 RES 330, 1/4W, 5%	1300235-00	14
14	R1-R9, R23, R24, R26, R28, R34 RES 470, 1/4W, 5%	1300316-00	15
1	R10 RES 1K, 1/4W, 5%	1300365-00	16
11	R11 THRU R21 RES 10K, 1/4W, 5%	1300479-00	17
1	R22 RES 100, 1/4W, 5%	1300229-00	18
1	E40 I.C. 74155	1910656-00	19
8	E5-E7, E15, E31, E34, E46, E75 I.C. 74157	1910655-00	20
2	E9, E17 I.C. 74180	1910724-00	21
1	E70 I.C. 74193	1910048-00	22
12	E16, E20-E23, E29, E30, E38, E41, E55, E56, E63 I.C. 74194	1910623-00	23
1	E65 I.C. 384	1909486-00	24
2	E44, E46 I.C. 74153	1909937-00	25
5	E3, E50, E58, E78, E76 I.C. 7400	1905575-00	26
3	E1, E49, E59 I.C. 7402	1909004-00	27
2	E64, E68 I.C. 7404	1909686-00	28
3	E24, E57, E60 I.C. 7408	1910155-00	29
1	E71 I.C. 7410	1905576-00	30
1	E72 I.C. 7416	1909928-00	31
1	E74 I.C. 7440	1906579-00	32
4	E4, E18, E52, E62 I.C. 7474	1905547-00	33
1	E69 I.C. 7485	1910224-00	34
2	E25, E41 I.C. 7486	1910011-00	35
1	E67 I.C. 7496	1910363-00	36
1	E8 I.C. 74121	1910230-00	37
5	E2, E10, E12, E33, E42 I.C. 74123	1910436-00	38
8	E32, E36, E37, E39, E45, E98, E53, E54 I.C. 74157	1909936-00	39
1	HEX HANDLE ASSY	1210711-E	40
12	EYELET	9006732-00	41
10	E11-E14, E19, E26, E27, E35, E43, E51 I.C. 8266	1909934-00	42
1	E61 I.C. 5600	23093A1-00	43



5600	8	16
74151	8	16
74123	8	16
7496	12	5
7485	8	16
74153	8	16
384	1	8
8266	8	16
74194	8	16
74193	8	16
74157	8	16
74155	8	16
IC TYPE	QND	+5V

QND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPT WHERE STATED ABOVE

IC PIN LOCATIONS

FIRST USED ON OPTION MODEL

ETCH BOARD REV. C

PARTS LIST

DATE: 12/17/75  
 BY: N. LUKIN  
 CHECKED: [Signature]  
 DATE: 1/10/76  
 ENGR: [Signature]  
 DATE: 2/1/76  
 PROJ. MGR: [Signature]  
 DATE: 2/2/76  
 PROD. [Signature]

digital

18 BIT BIT FIDDLER (BFLR I)

SCALE: 1 OF 8

SEMICONDUCTOR CONVERSION CHART

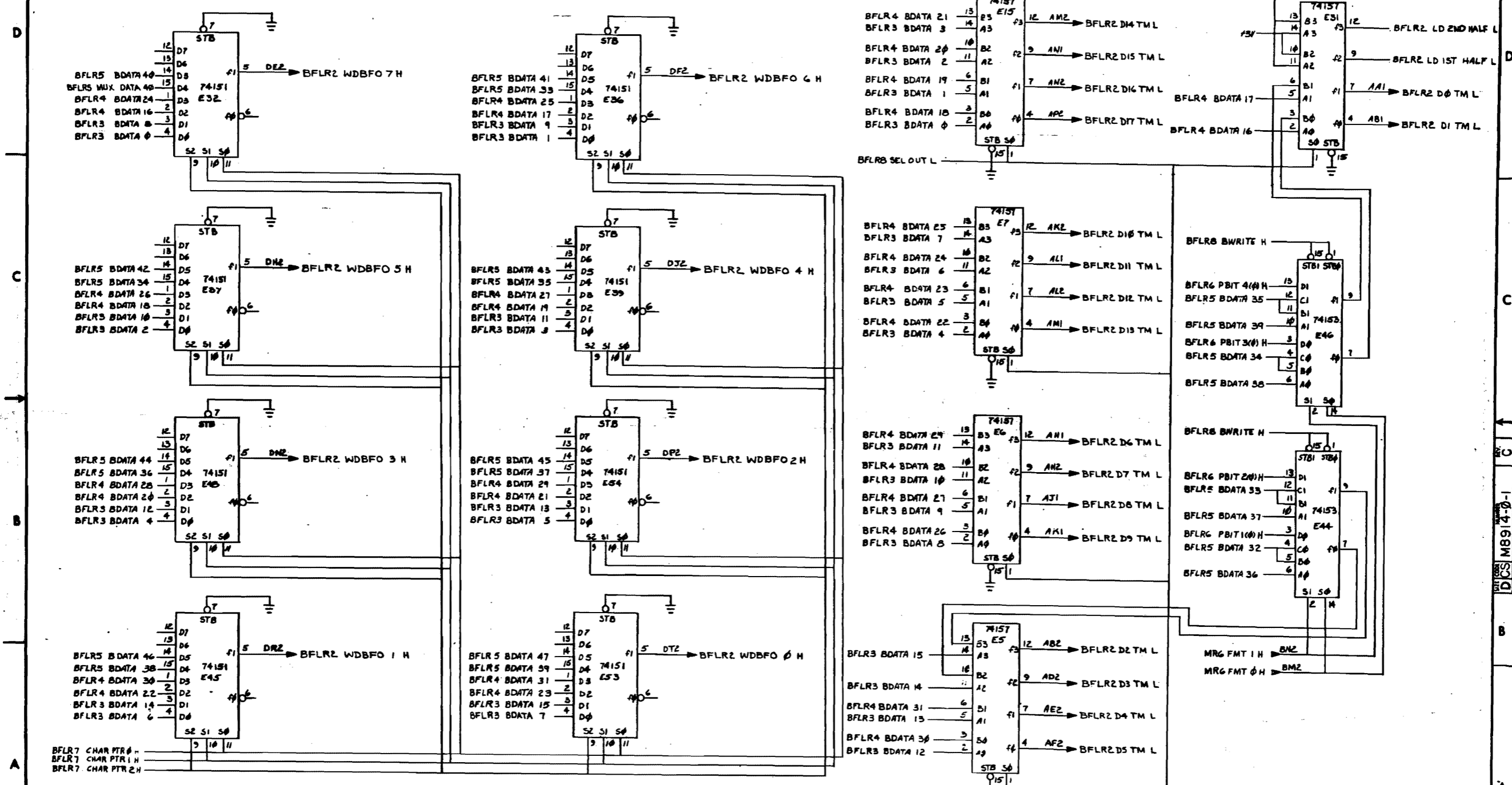
DEC NO. EIA NO. DEC NO. EIA NO.

DIST. NUMBER

REV. C

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1-0-168W SC 2

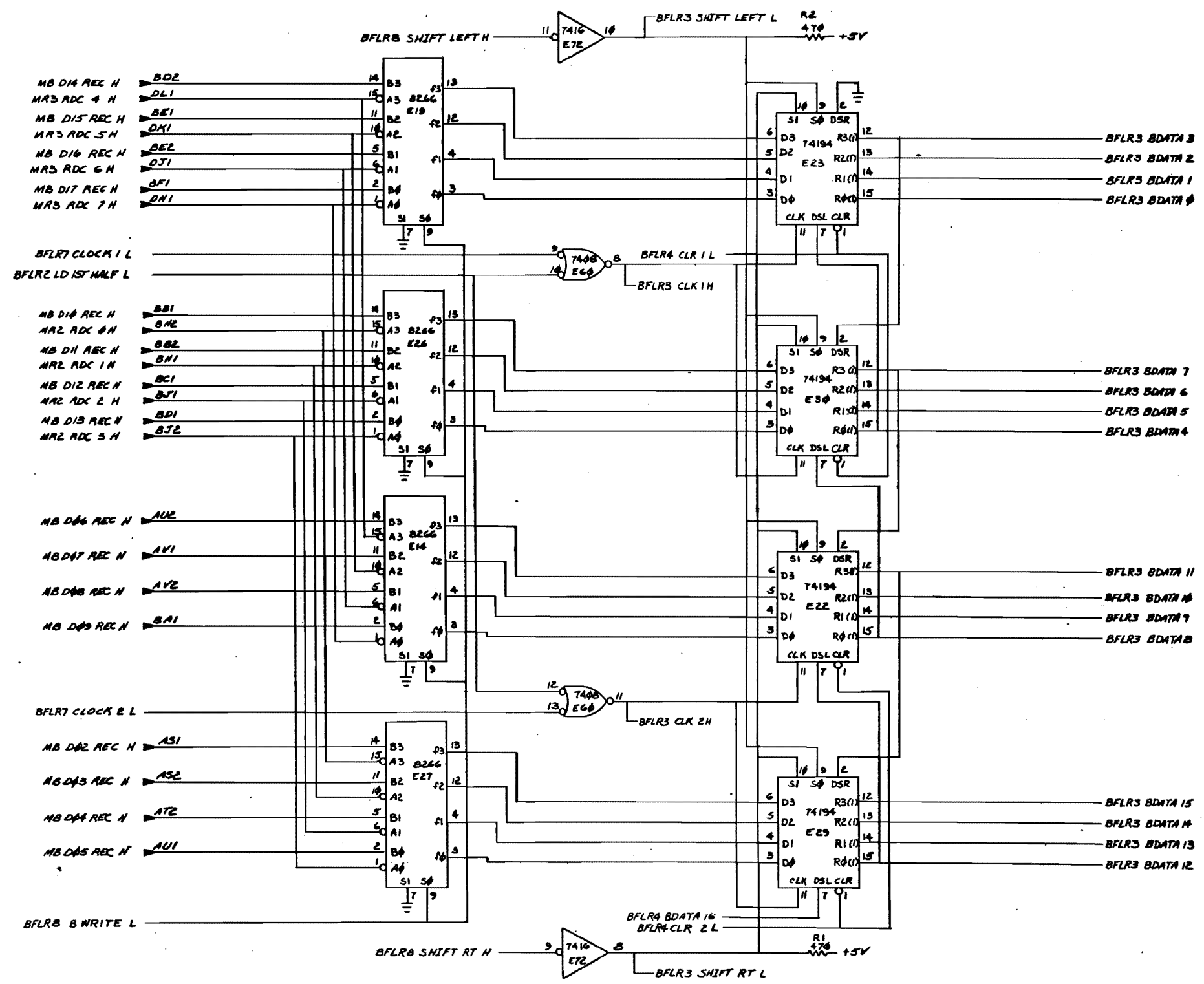


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE (BFLR 2)  
18 BIT BIT FIDDLER  
SCALE 1:1 SHEET 2 OF 3  
SIZE CODE DCS M8914-0-1  
NUMBER  
REV. C

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DCS M8914-0-1 2

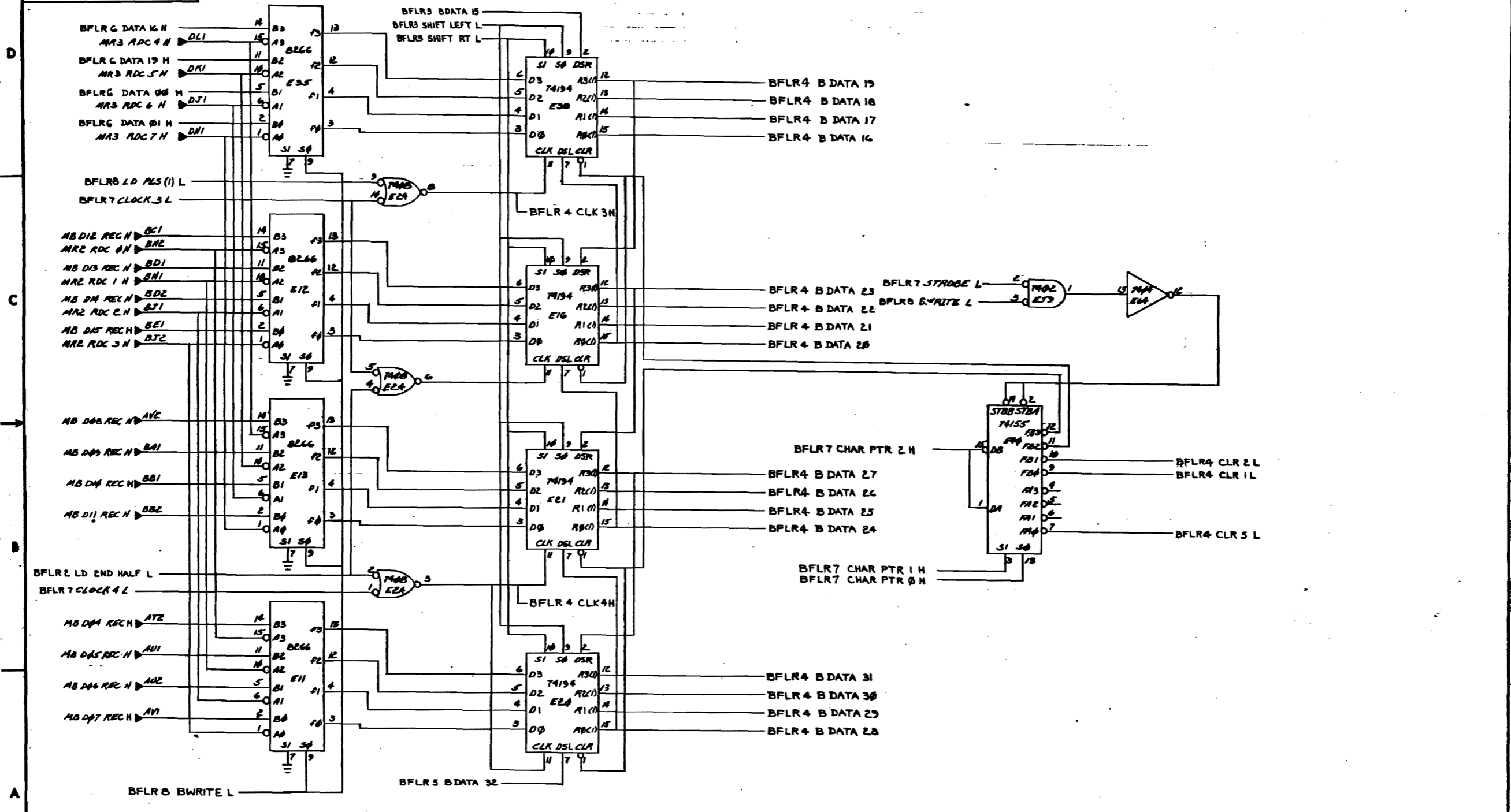


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE (BFLR3) 18 BIT BIT FIDDLER  
 SCALE + - - SHEET 3 OF 3  
 SIZE DCS NUMBER M8914-0-1 REV. C

DCS M8914-0-1

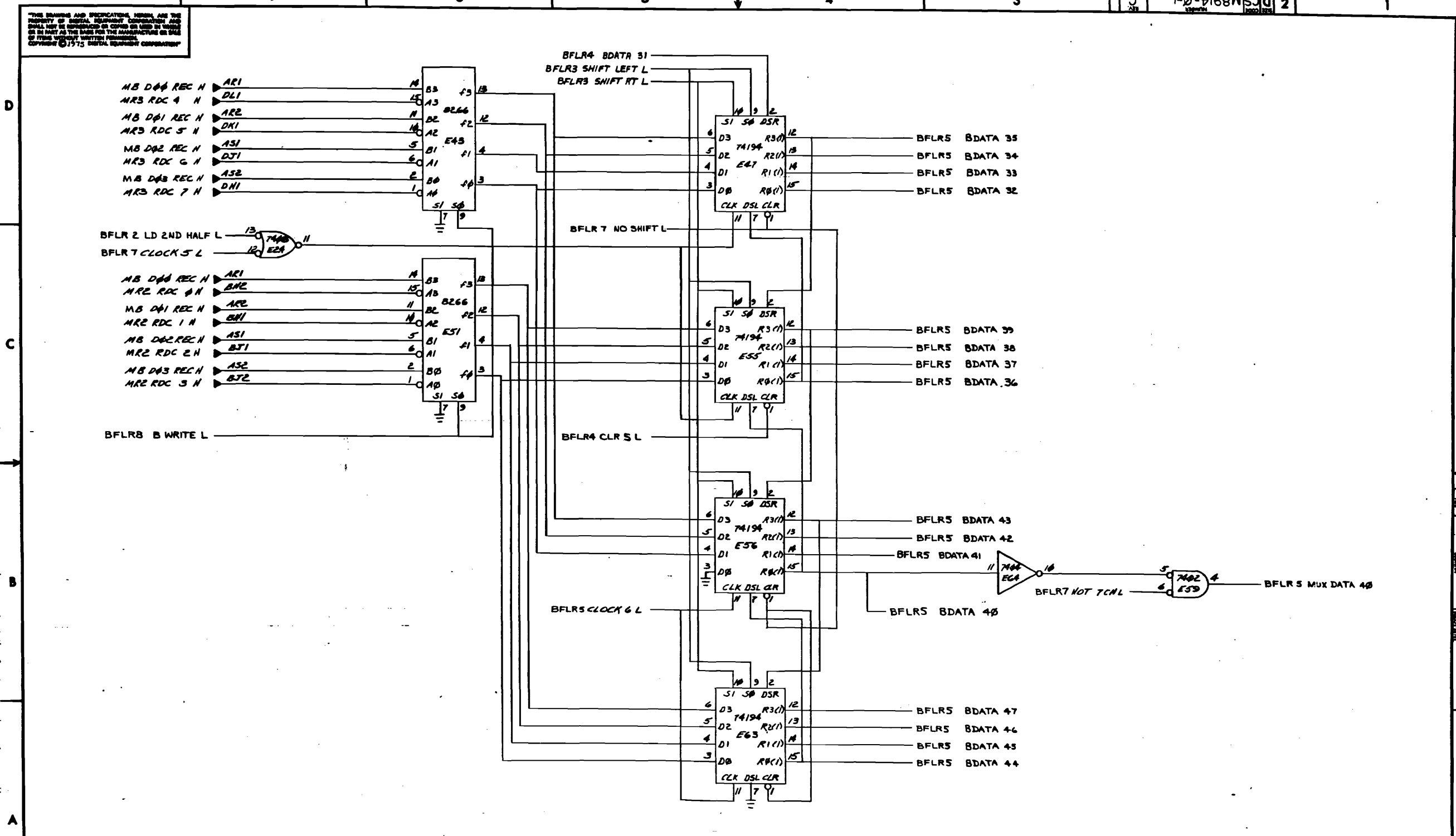
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REVISIONS		
CHK	CHANGE NO.	REV.

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1-0-1168W SCD 2

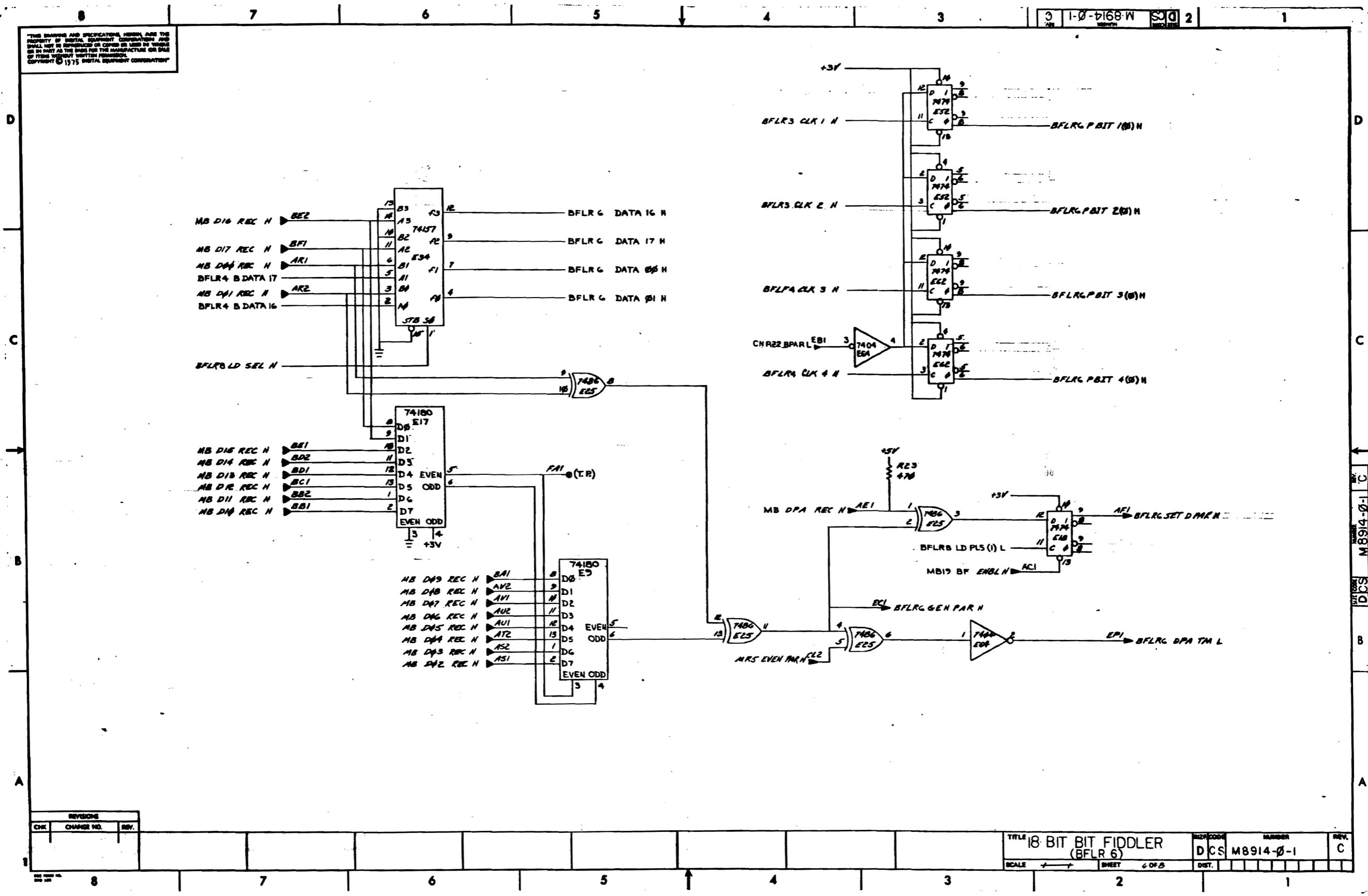


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE 18 BIT BIT FIDDLER (BFLR 5)		SIZE CODE DCS	NUMBER V8914-0-1	REV. C
SCALE +	SHEET 5 OF 8	DIST.		

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1-0-1 M8914-0-1

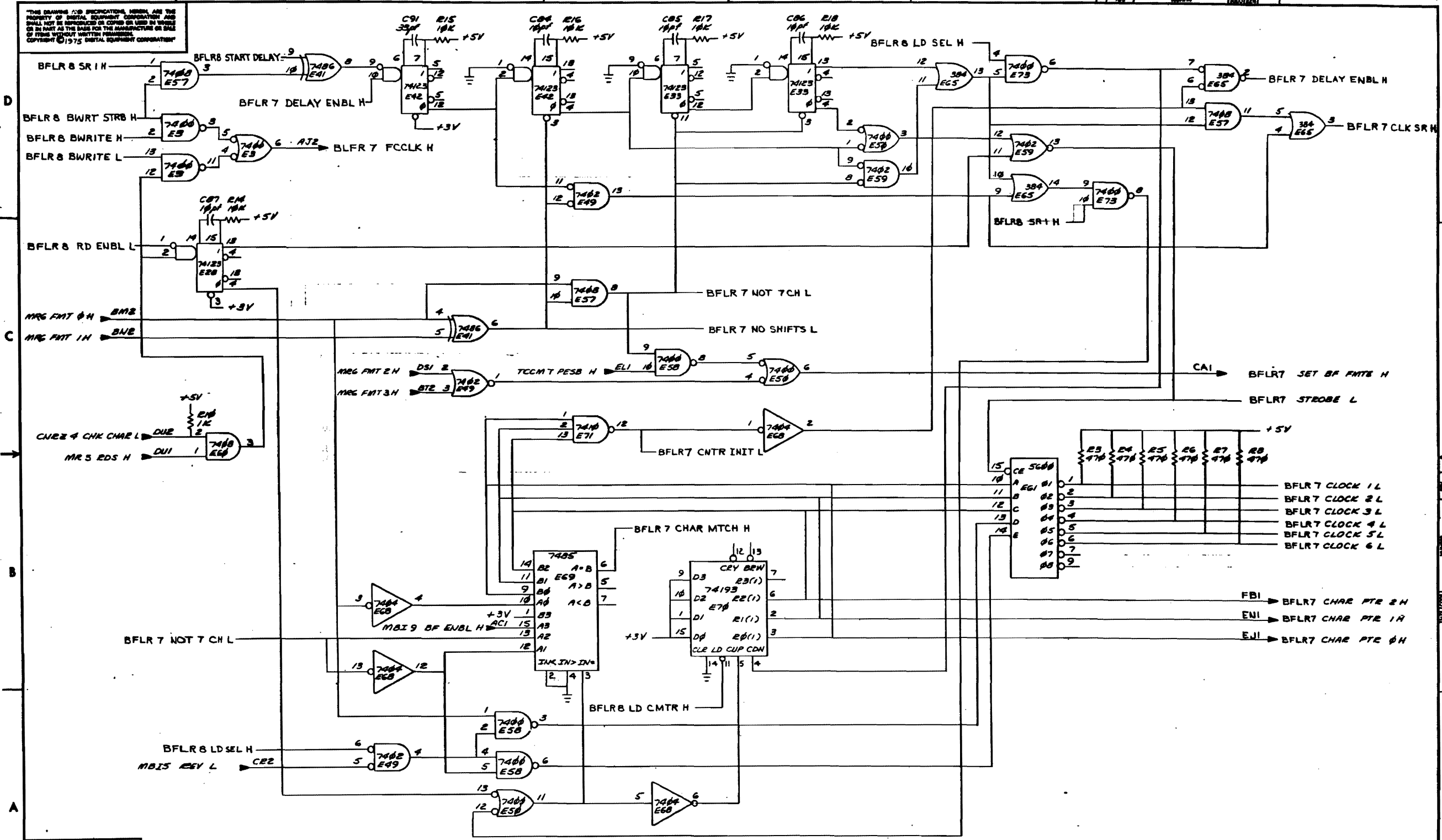


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE 18 BIT BIT FIDDLER (BFLR 6)  
 SCALE 1:1 SHEET 4 OF 5  
 DCS M8914-0-1  
 NUMBER  
 REV. C

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DCS M8914-0-1 2



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE 18 BIT BIT FIDDLER (BFLR 7) SIZE CODE NUMBER REV. DCS M8914-0-1 C

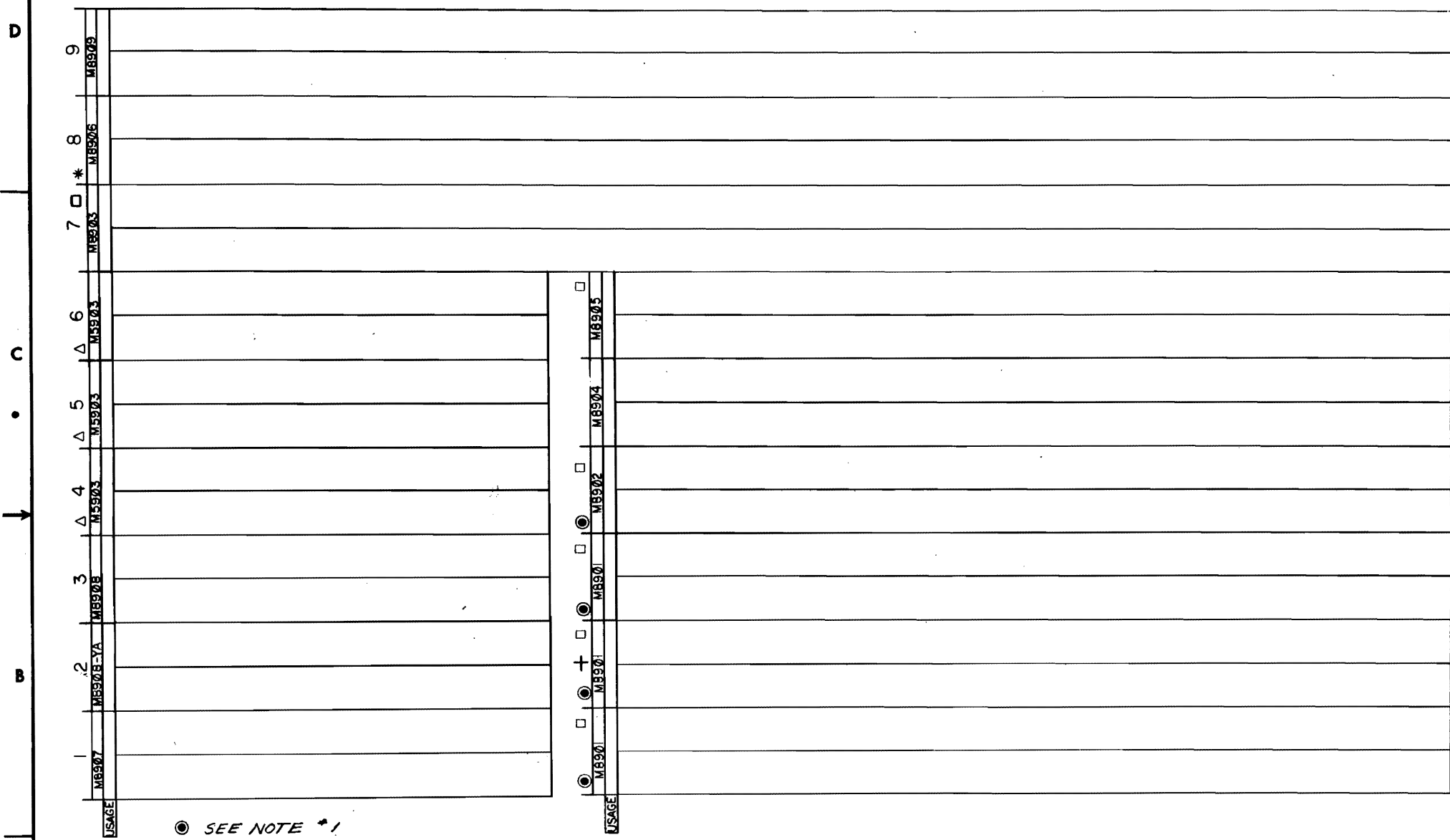


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7 6 5 4 3 2 1

**NOTES:**

1. THESE SLOTS ARE NOT USED FOR TM02 FC, TM02 FD.
2. M5903 ARE REPLACED BY M5903-YA IF TM02 IS LAST DEVICE ON THE MASSBUS.
3. M8906 IS REPLACED BY M8914 IN TM02 CA, TM02 CB, TM02CE, TM02CF.
4. FOR TM02 FE, TM02 FF, CE, CF  
REPLACE M8901S WITH M8901-YA S  
REPLACE M8902 WITH M8902-YA  
REPLACE M8903 WITH M8903-YA  
REPLACE M8905 WITH M8905-YA  
REPLACE M8904 WITH M8904-YA
5. USE M8901-YB OR YC IN SLOT 2, M8901-0 OR M8901-YA IN SLOTS 1 AND 3.



- SEE NOTE \*1
- △ SEE NOTE \*2
- \* SEE NOTE \*3
- SEE NOTE \*4
- + SEE NOTE \*5

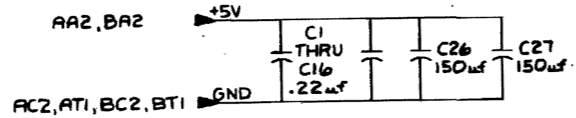
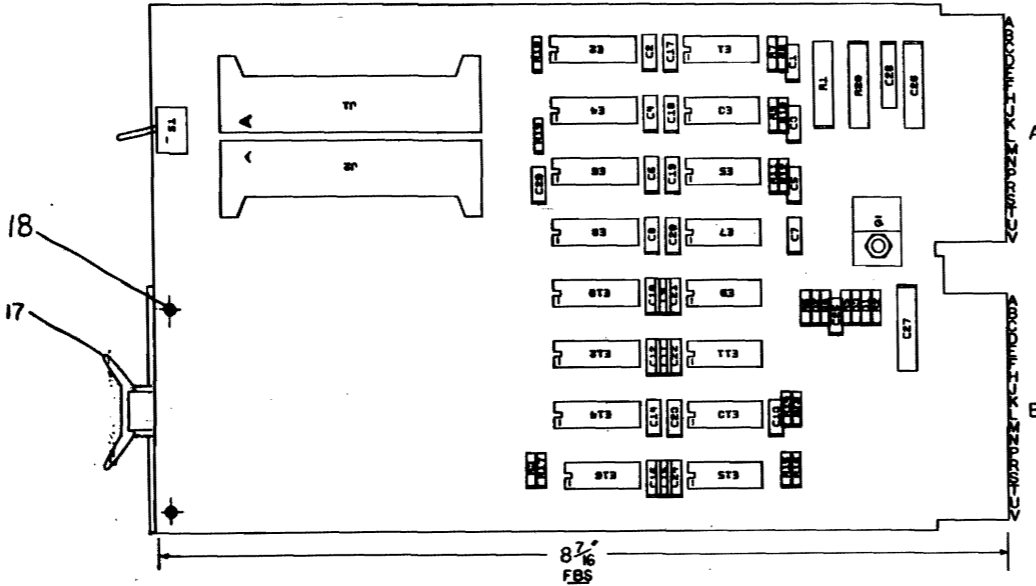
TM02-CE,CF	TM02-FC,FD	TM02-FE,FF	TM02-FA,FB	TM02-CA,CB	QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	1	1	1	1	1	TU45 NR2 TAPE CONT	M8904-YA	19
3	3	3	3	3	3	TU45 DATA SYNC	M8901-YC	18
1	1	1	1	1	1	TU16 DATA SYNC	M8901-YB	17
1	1	1	1	1	1	16 BIT FIDDLER	M8914	16
1	1	1	1	1	1	MAINTENANCE REG.	M8905-YA	15
1	1	1	1	1	1	TAPE CONT. COMMON MODE	M8903-YA	14
1	1	1	1	1	1	TAPE CONT. PHASE ENC.	M8902-YA	13
1	1	1	1	1	1	TU45 DATA SYNC.	M8901-YA	12
1	1	1	1	1	1	TAPE CONT PHASE ENC.	M8902	11
1	1	1	1	1	1	MAINTENANCE REGISI	M8905	10
3	3	3	3	3	3	MASS BUS TERMINAL	M5903	9
1	1	1	1	1	1	MASS BUS INTERFACE	M8909	8
1	1	1	1	1	1	RECEIVER TERMINATOR	M8908-YA	7
1	1	1	1	1	1	RECEIVER TERMINATOR	M8908	6
1	1	1	1	1	1	CONN TERMINATOR	M8907	5
1	1	1	1	1	1	16 BIT FIDDLER	M8906	4
1	1	1	1	1	1	TAPE CONTROL NRZI	M8904	3
1	1	1	1	1	1	TAPE CONT. COMMON MODE	M8903	2
1	1	1	1	1	1	TU16 DATA SYNC	M8901	1

REV.	CHANGE NO.	BY	DATE
A	1	J. HESS	7-10-75
B	2	J. HESS	7-10-75
C	3	J. HESS	7-10-75
D	4	J. HESS	7-10-75

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
DIMENSIONAL TOLERANCE		PARTS LIST			
DIMENSIONS ARE MILLIMETERS UNLESS OTHERWISE SPECIFIED		DRN.	DATE	digital	
MILLIMETERS INCHES ANGLES		CHK'D	DATE	TITLE	
XXX ±0.10	JXX ±.006	ENG.	DATE	MODULE UTILIZATION (16K)	
XX ±0.5	JX ±.02	PROL. ENG.	DATE	SIZE CODE NUMBER REV.	
X ±2	X ±.1	PROD.	DATE	D MU TM02-0-MU D	
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	NEXT HIGHER ASSY.			
MATERIAL	FINISH	SCALE			
SHEET		OF			

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**NOTES:**



IC TYPE	13	7	14
DEC 75107B	13	7	14
DEC 75108B	13	7	14
DEC 75113	—	8	16
IC TYPE	-5V	GND	+5V
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE.			
IC PIN LOCATIONS			

DESIGNER: SWANBROUGH  
 DATE: 3-18-74  
 DRAWN: M5903-00004 J  
 CHECKED: D. POTTER  
 DATE: 4-29-74  
 APPROVED: M5903-00003 H  
 DATE: 7-21-74  
 ORIGINAL D  
 DATE: 1/2/74  
 CHANGE NO. REV  
 CHECKED: M5903-00001 E  
 DATE: 1/2/74

REF	DESCRIPTION	QTY	PART NO.	ITEM NO.
REF	X-Y COORDINATE HOLE LOCATION		K-CO-M5903-0-4	1
REF	ASSY/DRILLING HOLE LAYOUT		D-AH-M5903-0-5	2
REF	MODULE ECO HISTORY		B-MH-M5903-0-6	3
1	ETCHED CIRCUIT BOARD		5010502	4
26	C1 THRU C25, C29		CAP. .22µf 50V 20%	5
1	C26		CAP. 68µf 35V 10%	6
1	D1		DIODE 1N4733A 5.1V	7
2	D2, D3		DIODE D672	8
2	R4, R18		RES. 330 1/4W 5%	10
2	R5, R19		RES. 750 1/4W 5%	11
1	R6		RES. 4.7K 1/4W 5%	12
2	J1, J2		CONN. SCOTCH FLEX 3492-1002	13
7	E2, E4, E6, E8, E10, E12, E14		I.C. DEC 75113	15
9	E1, 3, 5, 7, 9, 11, 13, 15, 16		I.C. DEC 75108B	16
1			HANDLE, FLIP CHIP, MAGENTA	17
2			EYELET	18
2	C26, C27		CAP. 150µf 6V 20%	21
1	S1		SWITCH	22
2	R1, R20		RES. 68, 2W, 5%	23
1	R2		RES. 470, 1/4W, 5%	24
1	Q1		TRANS D45H8C	25
1			SCREW PHM 4-40 X 1/4	26
1			NUT, KEP 4-40	27
12	R3, R7 - R17		RES. 33K, 1/4W, 5%	28
4			LEFT LATCH	29
4			RIGHT LATCH	30
AVR			THERMAL COMPOUND	31

FIRST USED ON OPTION MODEL: RH11

ETCH BOARD REV: H

DATE: 8/3/73

DRIVE TRANSCEIVER

SCALE: NONE

SHEET OF 2

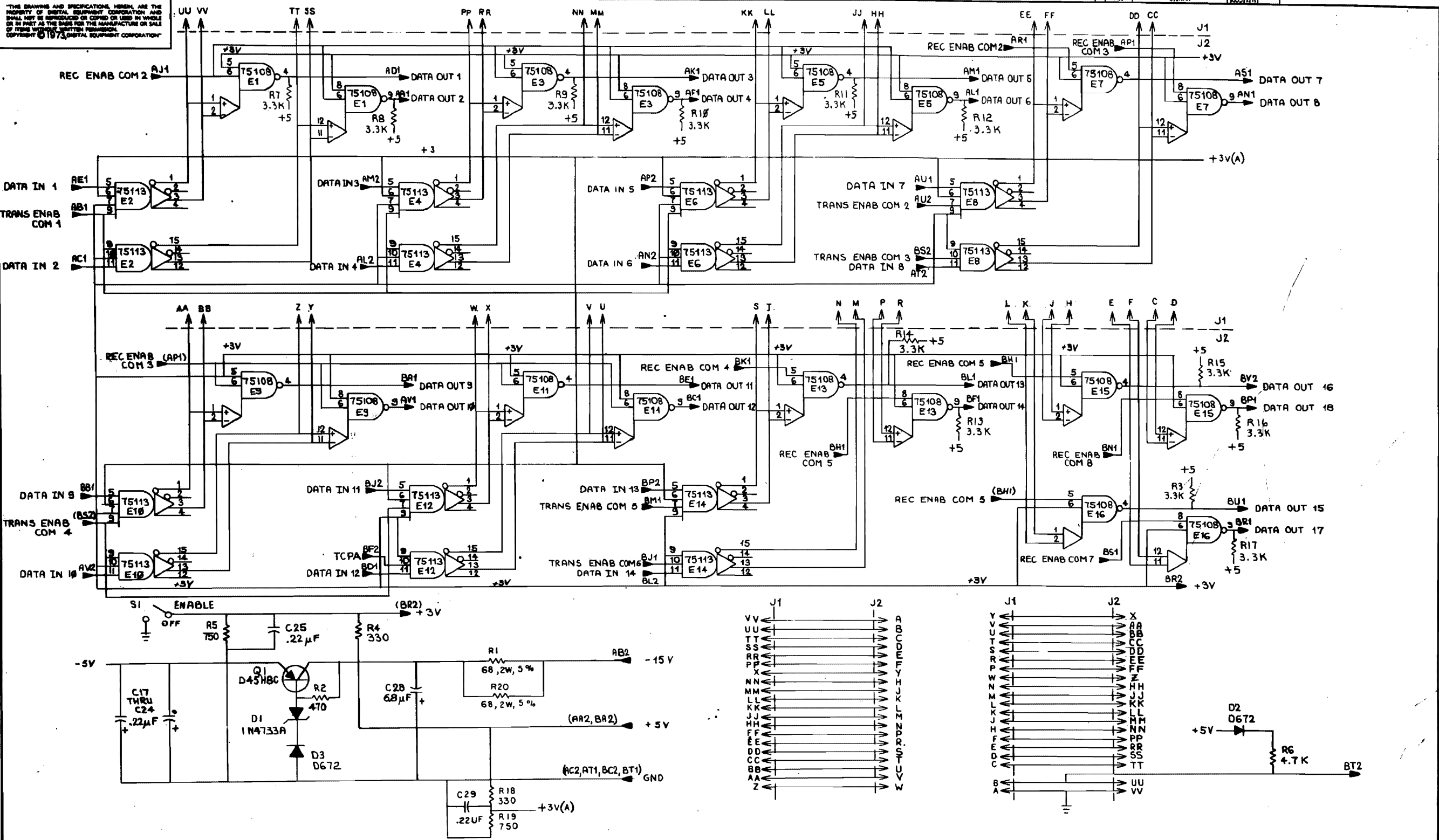
SIZE CODE: DCS

NUMBER: M5903-0-1

REV: J

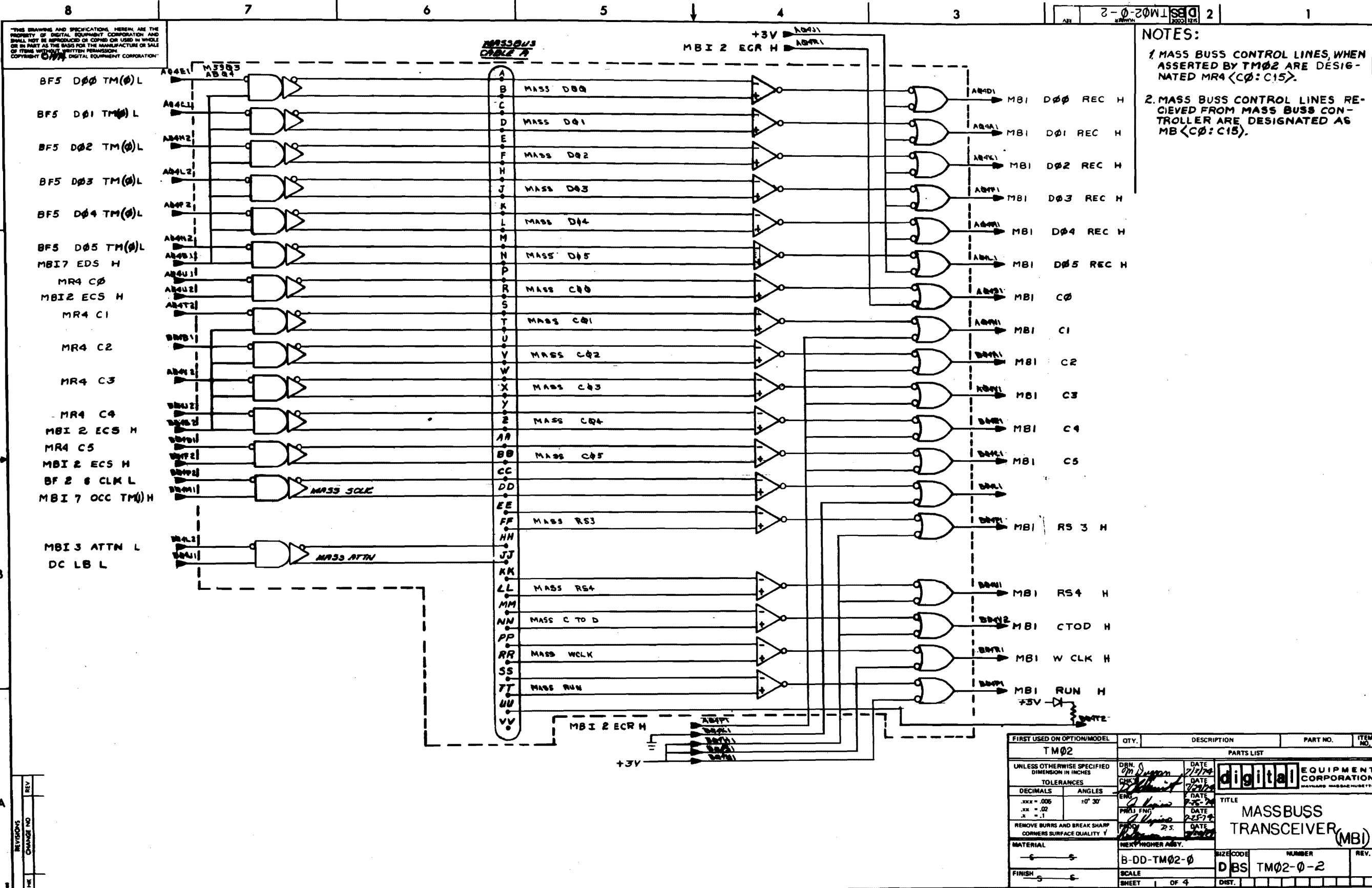
REV J  
M5903-0-1  
DCS

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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	DRIVE TRANSCEIVER	SIZE CODE	DCS	NUMBER	M5903-0-1	REV.	J
SCALE	NONE	SHEET	2 OF 2	DIST.			

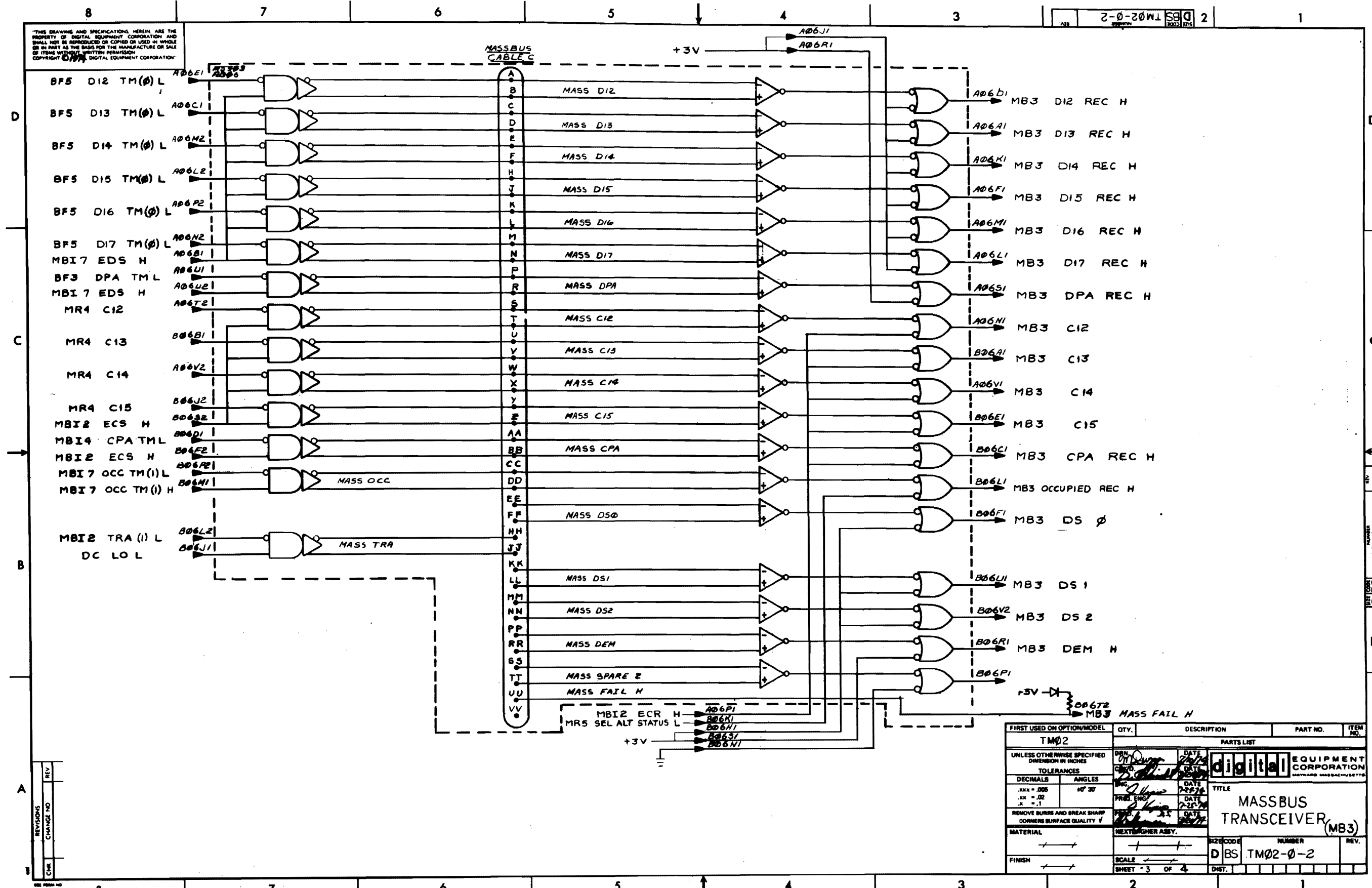


FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
TM02				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES				
TOLERANCES				
DECIMALS	ANGLES	±0° 30'		
.xxx = .005				
.xx = .02				
.x = .1				
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY Y				
MATERIAL				
NEXT HIGHER ASSY.				
FINISH				
PARTS LIST		TITLE		
digital EQUIPMENT CORPORATION		MASSBUSS TRANSCEIVER (MBI)		
B-DD-TM02-0		D B S TM02-0-2		
SCALE		SHEET OF 4		

REV	CHANGE NO

DES TM02-0-2





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2-0-20W 2

REV.	CHG.	NO.

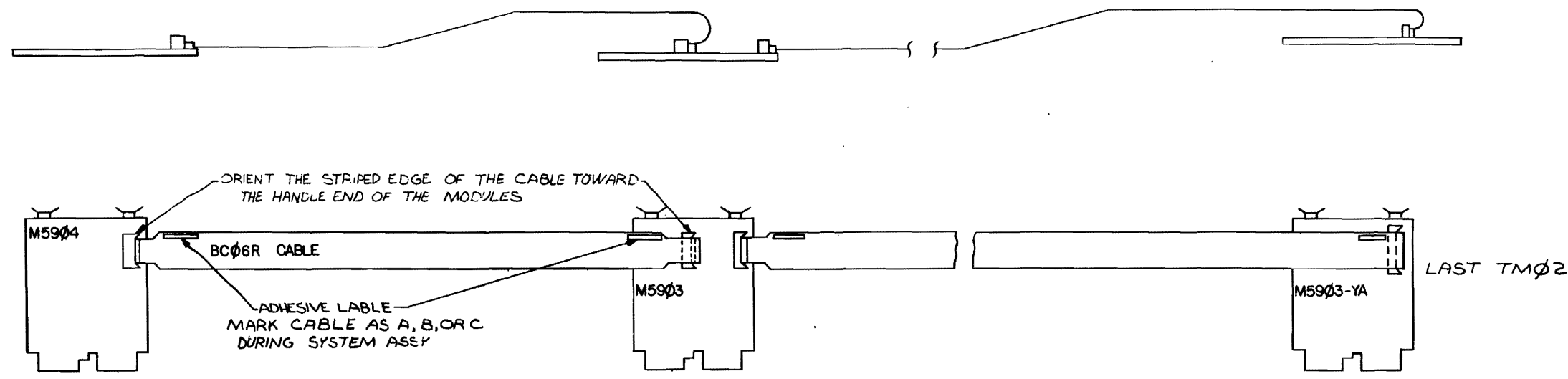
FIRST USED ON OPTION/MODEL <b>TM02</b>	QTY.	DESCRIPTION	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES				
TOLERANCES				
DECIMALS	ANGLES	DATE		
.XXX = .008	± 30'	DATE		
.XX = .02		DATE		
.X = .1		DATE		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY V				
MATERIAL	NEXT HIGHER ASSY.			
FINISH	SCALE			
	SHEET - 3 OF 4			
TITLE		PARTS LIST		
<b>MASSBUS TRANSCEIVER (MB3)</b>		digital EQUIPMENT CORPORATION		
SIZE CODE	NUMBER	REV.		
D BS	TM02-0-2			

DESIGN: TM02-0-2

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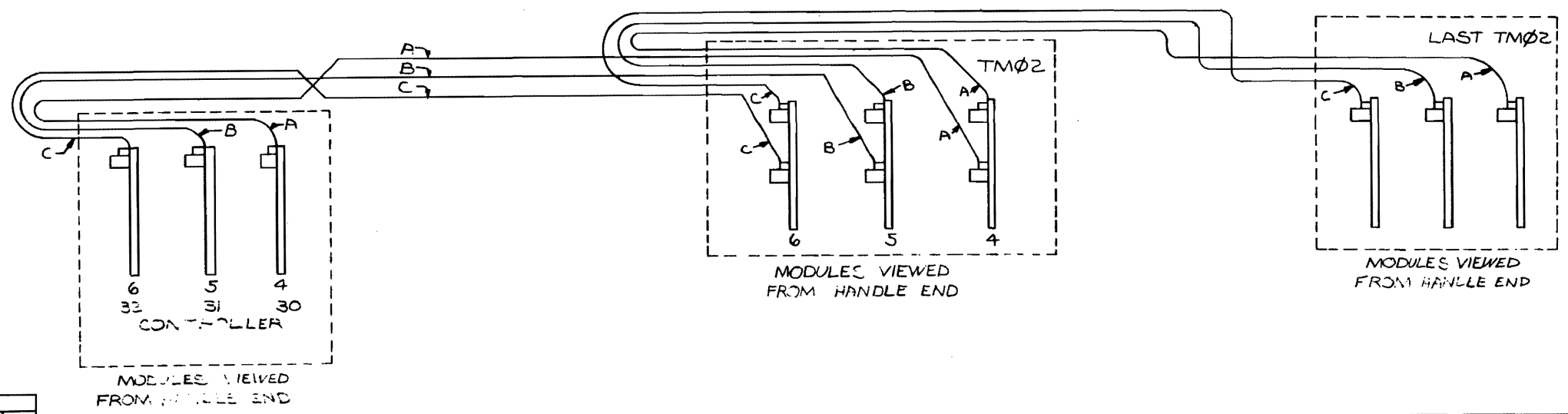
SIZE CODE NUMBER  
DBS TM02-0-2 2

8 7 6 5 4 3 2 1



IN THE RH-11 MASSBUS CONTROLLER  
 SLOT 4 IS FOR CABLE A  
 SLOT 5 IS FOR CABLE B  
 SLOT 6 IS FOR CABLE C  
 IN THE RH 10 MASSBUS CONTROLLER  
 SLOT 30 IS FOR CABLE A  
 SLOT 31 IS FOR CABLE B  
 SLOT 32 IS FOR CABLE C

IN THE TM02 TAPE CONTROLLER  
 SLOT 4 IS FOR CABLE A  
 SLOT 5 IS FOR CABLE B  
 SLOT 6 IS FOR CABLE C



REVISIONS		
CHK	CHANGE NO	REV

TITLE	TM02 MASSBUS TRANSCEIVER	SIZE CODE	DBS	NUMBER	TM02-0-2	REV.	
SCALE		SHEET	4 OF 4	DIST.			

REV. NUMBER  
DBS TM02-0-2

8 7 6 5 4 3 2 1

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TMØ2  
M89Ø7

TU16 MIDDLE  
OF BUS  
M9ØØ1

TU16 END  
OF BUS  
M9ØØ1-YB

ORIENT THE STRIPED EDGE OF THE CABLE

BCØ6R CABLE

SLAVE BUS A

SLOT Ø1 A/B

SLOT Ø1 A/B

SLOT Ø1 A/B

M89Ø8-YA

M8913

M8913-YA

BCØ6R CABLE

SLAVE BUS B

SLOT Ø2 A/B

SLOT Ø1 C/D

SLOT Ø1 C/D

REV.	
CHANGE NO.	
CHE	

FIRST USED ON OPTION/MODEL TU16	QTY.	DESCRIPTION	PART NO.	ITEM NO.
DIMENSIONAL TOLERANCE				
DIMENSIONS ARE <u>INCHES</u>				
UNLESS OTHERWISE SPECIFIED				
MILLIMETERS	INCHES	ANGLES		
X.XX ±0.10	JXX ±0.08	40° 30'		
X.X ±0.5	JX ±0.02			
X ±2	X ±0.1			
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	NEXT HIGHER ASSY.		
MATERIAL	FINISH	SCALE	SIZE/CODE	NUMBER
		B-DD-TU16-Ø	D BS	TU16-Ø-2
		SHEET 1 OF 2	DIST.	

**digital**

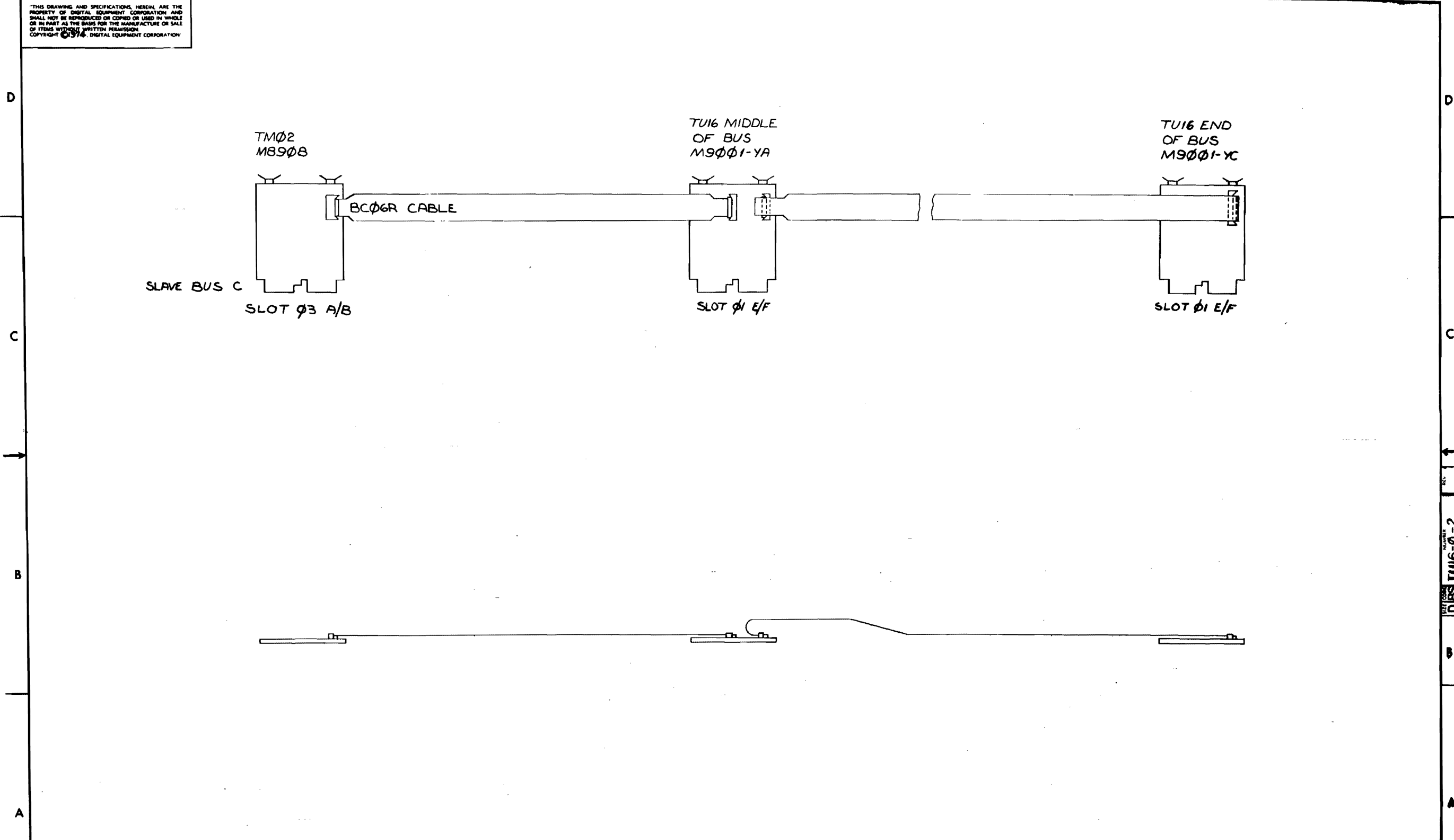
TITLE  
MASSBUS  
TRANSCIEVER  
(TU16)

D BS TU16-Ø-2

8 7 6 5 4 3 2 1

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D BS TUI6-φ 2



D BS TUI6-φ-2

REVISIONS		
CHK	CHANGE NO	REV

TITLE	MASSBUS TRANSCEIVER (TUI6)	SIZE CODE	D BS	NUMBER	TUI6 - φ - 2	REV.	
SCALE		SHEET	2 OF 2	DIST.			

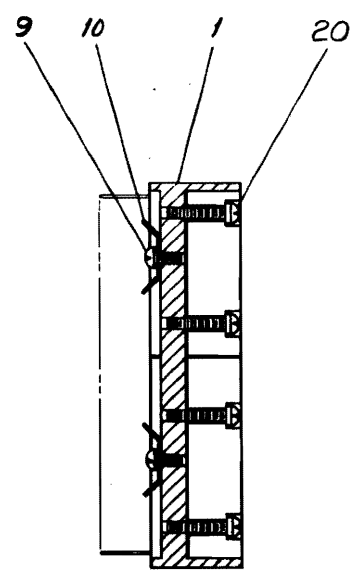
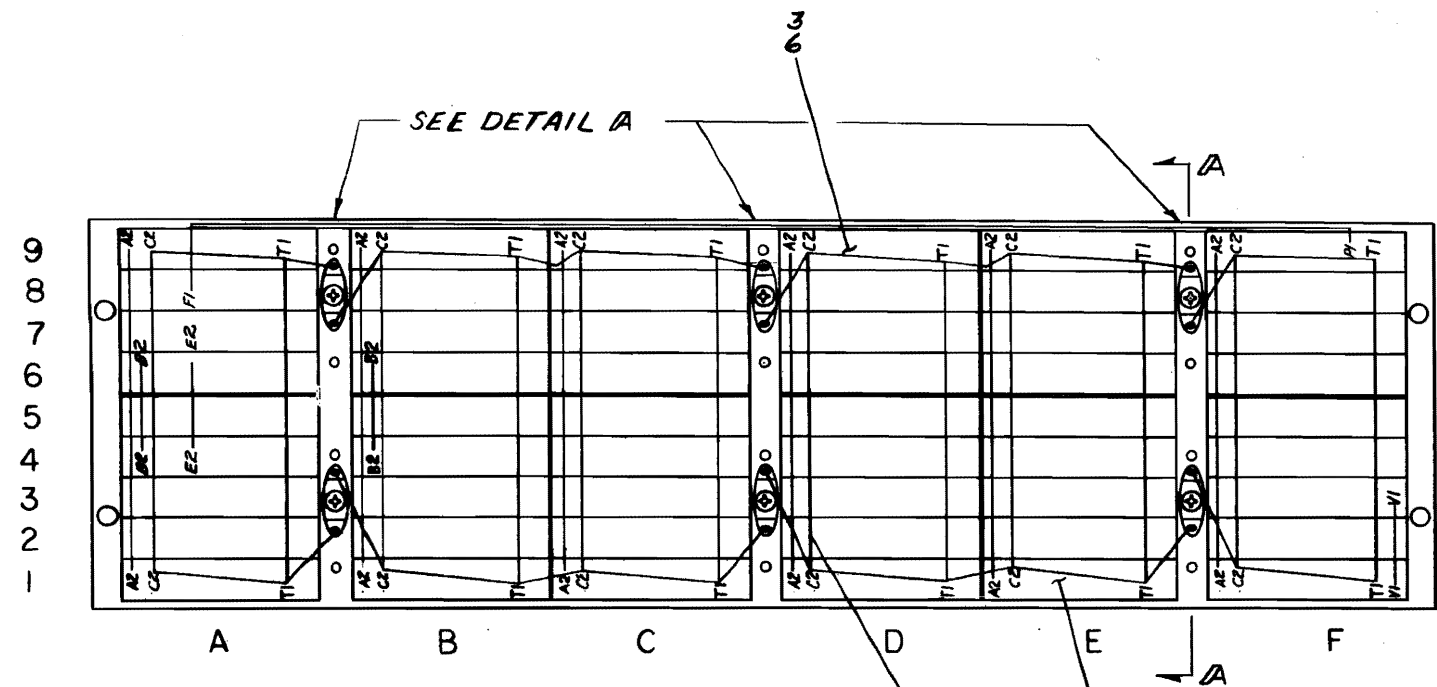
8 7 6 5 4 3 2 1

77

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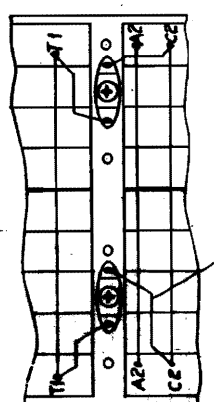
DAD 7009735-0-0 2



SECTION A-A

NOTES:

- AFTER BUSSING ALL A2 PINS ARE TIED TOGETHER ON SLOT 1, USING ITEM #11 (BUSS WIRE) AND ITEM #12 (TUBING) EXAMPLE A01A2 TO B01A2 ETC. THRU F01A2. ALL C2 PINS AND ALL T1 PINS ARE TIED TOGETHER USING ITEM #11 (BUSSING) AND ITEM #14 (TUBING) FOLLOWING DETAIL "A" AND THE PRINT.
- CONNECTIONS ON ITEMS #2 & #11 TO BE SOLDERED AND LOCATED AT MINIMUM PRACTICAL HEIGHT ABOVE BLOCKS.
- B2 BUSSING IN SECTIONS A & B MUST BE TIED TOGETHER. USE ITEM #11 (BUSS WIRE) AND ITEM #13 (TUBING) TIE A04B2 TO B04B2.
- INSTALL CARD GUIDES (ITEM #15) BY REMOVING 12 SCREWS OF ITEM #5 AND REPLACE WITH 10 SCREWS ITEM #20.



DETAIL A  
3 PLACES  
SEE NOTE 2.


12	SCR, PHIL FLAT HD 8-32x.81	9009070-00	20
A/R	COMPRESS - O-CARTON	9905016-4	19
REF	PACKAGING INSTRUCTIONS	5700040-00	18
1	DECAL, LOGIC ASSY	A-DC-7411881-01	17
REF	AWT REVISION STATUS	A-WT-7009735-0	16
6	CARD GUIDE	1210698-00	15
A/R	TUB TEFLON #22AWG(WHITE)	9107256-09	14
A/R	TUB, TEFLON #22AWG(BL)	9107256-06	13
A/R	TUB, TEFLON #22AWG(RED)	9107256-02	12
A/R	WIRE, BUS #22 AWG	9107560-01	11
6	LUG, SOLDER	9006772	10
6	SCREW, #6-32 X 1/8 SELF TAP	9006021-01	9
REF	WIRE LIST	FMT-7402-1-ML	8
3	CONN BLOCK 72 PIN	1211425	7
6	CONN BLOCK 288 PIN	1210858	6
15	SCREW SELF TAP PHL HD SPECIAL #6-32 X 1/8 L.G.	9006120-06	5
1	LOGIC SERIAL DECAL	ASS-	4
A/R	WIRE, #30 AWG SOLID KYNAR INS.	9105740-44	3
A/R	BUS STRIP	9008428	2
1	CASTING, LOGIC FRAME (HSG)	1211439	1

REV	CHG	NO	DATE	BY	APP
A		1	1-2-74	J. HESS	
B		2	1-2-74	J. HESS	
C		3	1-2-74	J. HESS	
D		4	1-2-74	J. HESS	
E		5	1-2-74	J. HESS	
F		6	1-2-74	J. HESS	
G		7	1-2-74	J. HESS	
H		8	1-2-74	J. HESS	
I		9	1-2-74	J. HESS	
J		10	1-2-74	J. HESS	
K		11	1-2-74	J. HESS	
L		12	1-2-74	J. HESS	
M		13	1-2-74	J. HESS	
N		14	1-2-74	J. HESS	
O		15	1-2-74	J. HESS	
P		16	1-2-74	J. HESS	
Q		17	1-2-74	J. HESS	
R		18	1-2-74	J. HESS	
S		19	1-2-74	J. HESS	
T		20	1-2-74	J. HESS	

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
TU16					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		PARTS LIST			
DECIMALS	ANGLES	TITLE			
.XXX - .006	±0° 30'	WIRED ASSY			
.XX - .02		(TM02)			
X - .1		EQUIPMENT CORPORATION			
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		MAYNARD GARDENHURST			
MATERIAL		NEXT HIGHER ASSY.			
SEE PARTS LIST		D-AD-7009735-0-0			
FINISH		SCALE 1/1			
		SHEET OF			

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FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
TU16				
PARTS LIST				
DRN. <i>D. Schmidt</i>	DATE 2/24/74	 <b>digital EQUIPMENT CORPORATION</b> <small>MAYNARD, MASSACHUSETTS</small> TITLE <h1 style="margin: 0;">WIRE LIST</h1> <h2 style="margin: 0;">(TMØ2)</h2>		
CHK'D. <i>D. Schmidt</i>	DATE 2/24/74			
ENG. <i>J. R. Hess</i>	DATE 2-20-74			
PROJ. ENG. <i>J. R. Hess</i>	DATE 2-20-74			
PRD. <i>D. Schmidt</i>	DATE 5-31-74			
NEXT HIGHER ASSEMBLY D-AD-7009735-0-0		SIZE CODE K WL	NUMBER TMØ2-Ø-WL	REV. C
SCALE f f	SHEET 1 OF 1		DIST.	

REVISIONS		REV.
CHK	CHANGE NO.	A
<i>PA</i>	TMØ2-00001	
<i>R. O. Lawler 9-20-74</i>		
J. HESS		
<i>John R. Hess</i>	9-26-74	B
<i>8/2</i>	TMØ2-00005	
<i>E. Remond 4-10-75</i>		
J. HESS		
<i>JR Hess</i>	4-10-75	C
<i>8/2</i>	TMØ2-00012	

DEC FORM NO.  
DRB 109

B

A

B

A

4

3

2

1

REV. NUMBER SIZE CODE

LINE	QTY	UNIT	DESCRIPTION	ORDER	DATE	REMARKS	FLAG	EXCEPTIONS	NUMBER
25	1	3-1/R	REFR A V	1-01	1-02				
25	1	3-1/R	REFR A V	1-01	1-02				
24	1	1-0/R	REF FMTB H	1-01	1-02				
24	1	1	REF FMTB H	1-01	1-02				
23	1	1-0/R	REF ENBL H	1-01	1-02				
23	1	1	REF ENBL H	1-01	1-02				
22	1	0-1/R	ATTN L	1-01	1-02				
22	1	0-1/R	ATTN L	1-01	1-02				
21	1	1-4/R	AIA H	1-01	1-02				
21	1	1-4/R	AIA H	1-01	1-02				
20	1	3-0/R	ANY TRANS L	1-01	1-02				
20	1	1	ANY TRANS L	1-01	1-02				
20	1	1	ANY TRANS L	1-01	1-02				
19	1	1-PIN RUN	ANY TRANS L	1-01	1-02				
18	1	1-PIN RUN	ANY TRANS L	1-01	1-02				
17	1	1-1/R	ACCL(SH) L	1-01	1-02				
17	1	4-1/R	ACCL(SH) L	1-01	1-02				
16	1	2-0/R	ACCL H	1-01	1-02				
16	1	2	ACCL H	1-01	1-02				
15	1	1-PIN RUN	ACCL H	1-01	1-02				
14	1	3-0/R	A F(01) H	1-01	1-02				
14	1	1-4/R	A F(01) H	1-01	1-02				
14	1	0-3/R	A F(01) H	1-01	1-02				
14	1	1-2/R	A F(01) H	1-01	1-02				
13	1	1-4/R	7 SEC DAY TOL TO H	1-01	1-02				
13	1	1-1/R	7 SEC DAY TOL TO H	1-01	1-02				
12	1	3-4/R	7 CH TMI	1-01	1-02				
12	1	3-4/R	7 CH TMI	1-01	1-02				

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 11119 PAGE 1

LINE	QTY	UNIT	DESCRIPTION	ORDER	DATE	REMARKS	FLAG	EXCEPTIONS	NUMBER
11	1	3-0/R	7 CH TMI	1-01	1-02				
11	1	3-0/R	7 CH TMI	1-01	1-02				
10	1	2-1/R	7 CH L	1-01	1-02				
10	1	1	7 CH L	1-01	1-02				
9	1	13-1/R	7 CH H	1-01	1-02				
9	1	1-3/R	7 CH H	1-01	1-02				
9	1	7-1/R	7 CH H	1-01	1-02				
9	1	1	7 CH H	1-01	1-02				
8	1	7-3/R	7 CH H	1-01	1-02				
8	1	1-PIN RUN	7 CH H	1-01	1-02				
7	1	0-7/R	200 APIC(L) H	1-01	1-02				
7	1	4-7/R	200 APIC(L) H	1-01	1-02				
7	1	2	200 APIC(L) H	1-01	1-02				
6	1	1-PIN RUN	24-32 H	1-01	1-02				
5	1	1-PIN RUN	15 40R2	1-01	1-02				
4	1	0-5/R	-VOLT	1-01	1-02				
4	1	0-5/R	-VOLT	1-01	1-02				
3	1	13-7/R	-15V	1-01	1-02				
3	1	13-7/R	-15V	1-01	1-02				
2	1	11-2/R	+3V	1-01	1-02				
2	1	0-5/R	+3V	1-01	1-02				
2	1	0-1/R	+3V	1-01	1-02				
2	1	0-5/R	+3V	1-01	1-02				
2	1	0-1/R	+3V	1-01	1-02				
2	1	0-4/R	+3V	1-01	1-02				
2	1	0-5/R	+3V	1-01	1-02				
2	1	0-4/R	+3V	1-01	1-02				
2	1	1	+3V	1-01	1-02				
2	1	1-4/R	+3V	1-01	1-02				
2	1	2-3/R	+3V	1-01	1-02				
2	1	1-2/R	+3V	1-01	1-02				
2	1	1	+3V	1-01	1-02				
1	1	2-1/R	+15V	1-01	1-02				
1	1	2-4/R	+15V	1-01	1-02				

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TM02.C RUN NAME	WRP288.V34(62)-1 31-Jul-75				Q	DRAW	RV	RG	Y	X	Z	REMARKS	29-Jul-76	11:19	PAGE 3	NC LENGTH EXCEPTIONS	RUN NUMBER
	A/P	PIN NAME	ORDER PIN	BAY - ORDER													
BFFR A 1		D03H1	1-01 *								1					1-3/8	26
BFFR A 1		D04M2	1-02 *													1-3/8	26
BFFR A 1			1														26
BFFR A 2		D01L2	1-01 *								1					2-1/8	27
BFFR A 2		D04R1	1-02 *													2-1/8	27
BFFR A 2			1														27
BFFR A 3		D03M1	1-01 *								1					1-3/8	28
BFFR A 3		D04P2	1-02 *													1-3/8	28
BFFR A 3			1														28
BFFR A 4		D01M1	1-01 *								1					2-1/8	29
BFFR A 4		D04P1	1-02 *													2-1/8	29
BFFR A 4			1														29
BFFR A 5		D02H1	1-01 *								1					1-7/8	30
BFFR A 5		D04M1	1-02 *													1-7/8	30
BFFR A 5			1														30
BFFR A 6		D02M1	1-01 *								1					1-5/8	31
BFFR A 6		D04N1	1-02 *													1-5/8	31
BFFR A 6			1														31
BFFR A 7		D03L2	1-01 *								1					0-4/8	32
BFFR A 7		D04L1	1-02 *													0-4/8	32
BFFR A 7			1														32
BFFR A P		D02L2	1-01 *								1					1-3/8	33
BFFR A P		D04K2	1-02 *													1-3/8	33
BFFR A P			1														33
BIT RDY 1 L		D01R2														1-PIN RUN	34
BIT RDY 2 L		C01R2														1-PIN RUN	35
BIT RDY 3 L		E01T2														1-PIN RUN	36
BIT RDY 4 L		D02R2														1-PIN RUN	37
BIT RDY 5 L		C02R2														1-PIN RUN	38
BIT RDY 6 L		E02T2														1-PIN RUN	39
BIT RDY 7 L		D03R2														1-PIN RUN	40
BIT RDY 8 L		C03R2														1-PIN RUN	41
BIT RDY 9 L		E03T2														1-PIN RUN	42
BIT RDY H		C01M2	1-01 *													1	43
BIT RDY H		C02M2	1-02 *								2					1	43
BIT RDY H		C03M2	1-03 *								1					1-5/8	43
BIT RDY H		C04V1	1-04 *														43
BIT RDY H			1													3-5/8	43

TM02.C RUN NAME	WRP288.V34(62)-1 31-Jul-75				Q	DRAW	RV	RG	Y	X	Z	REMARKS	29-Jul-76	11:19	PAGE 4	NC LENGTH EXCEPTIONS	RUN NUMBER
	A/P	PIN NAME	ORDER PIN	BAY - ORDER													
BIT STRB 1 H		C03V2	1-01 *								1					0-3/8	44
BIT STRB 1 H		F06F2	1-02 *													0-3/8	44
BIT STRB 1 H			1														44
BIT STRB 2 H		E01M1	1-01 *								1					4-5/8	45
BIT STRB 2 H		F06E2	1-02 *													4-5/8	45
BIT STRB 2 H			1														45
BOT H		B02M2	1-01 *								1					3-3/8	46
BOT H		B07H2	1-02 *								2					1-4/8	46
BOT H		R09H2	1-03 *													4-7/8	46
BOT H			1														46
BOT L		B07H1	1-01 *								1					1-4/8	47
BOT L		R09H1	1-02 *													1-4/8	47
BOT L			1														47
BPAR L		F08B1	1-01 *								1					2-5/8	48
BPAR L		D05U1	1-02 *													2-5/8	48
BPAR L			1														48
BRIP(1) L		C09U2	1-01 *								1					0-3/8	49
BRIP(1) L		F06C1	1-02 *													0-3/8	49
BRIP(1) L			1														49
BTE(0) H		F07N2	1-01 *								1					1-3/8	50
BTE(0) H		F09L1	1-02 *													1-3/8	50
BTE(0) H			1														50
C00		A09E2	1-01 *								2					4-3/8	51
C00		A04S1	1-02 *								1					0-4/8	51
C00		A04U1	1-03 *								2					6-5/8	51
C00		C06R2	1-04 *														51
C00			1													11-4/8	51
C01		A09D2	1-01 *								1					4-1/8	52
C01		A04N1	1-02 *								2					1	52
C01		A04T2	1-03 *								1					5-7/8	52
C01		C06P1	1-04 *														52
C01			1													11-0/8	52
C02		B04A1	1-01 *								1					0-1/8	53
C02		B04B1	1-02 *								2					4-5/8	53
C02		R09G2	1-03 *								1					4-1/8	53
C02		C06R1	1-04 *														53
C02			1													0-7/8	53
C03		A04V2	1-01 *								1					0-4/8	54
C03		A04V1	1-02 *								2					4	54
C03		R09U1	1-03 *								1					3-1/8	54
C03		C06S1	1-04 *														54
C03			1													0-3/8	54

TM42.C RUN NAME	A/P	PIN NAME	ORDER PIN	31-JUL-75 MAY - ORDER	Q	DRAM	RV	RC	Y	X	Z	REMARKS	29-JUL-76	11:19	NC FLAG	EXCEPTIONS	RUN NUMBER
C04		H04E1		1-01 *							1					0-5/H	55
C04		H04J2		1-02 *							2					3-3/H	55
C04		H09P1		1-03 *							1					4-1/H	55
C04		C06P2		1-04 *												8-1/H	55
C04				1													
C05		H09H2		1-01 *							2					3-3/H	56
C05		H04C1		1-02 *							1					0-1/H	56
C05		H04D1		1-03 *							2					4-7/H	56
C05		C06N1		1-04 *												8-3/H	56
C05				1													56
C06		A05S1		1-01 *							1					0-4/H	57
C06		A05H1		1-02 *							2					3-7/H	57
C06		H09D2		1-03 *							1					5-5/H	57
C06		C06M1		1-04 *												10-0/H	57
C06				1													57
C07		A05N1		1-01 *							2					1	58
C07		A05T2		1-02 *							1					3-2/H	58
C07		H04F2		1-03 *							2					5-1/H	58
C07		C06M2		1-04 *												9-3/H	58
C07				1													58
C08		A09N2		1-01 *							2					3-7/H	59
C08		H05H1		1-02 *							1					0-1/H	59
C08		H05A1		1-03 *							2					4-3/H	59
C08		C06K1		1-04 *												8-3/H	59
C08				1													59
C09		A05S1		1-01 *							2					2-3/H	60
C09		A05V2		1-02 *							1					0-4/H	60
C09		A05V1		1-03 *							2					5-1/H	60
C09		C06L1		1-04 *												8-2/H	60
C09				1													60
C10		H05E1		1-01 *							1					0-5/H	61
C10		H05J2		1-02 *							2					3-3/H	61
C10		C06J2		1-03 *							1					7-5/H	61
C10		H09T2		1-04 *												6-5/H	61
C10				1													61
C11		H09A1		1-01 *							2					2-5/H	62
C11		H05C1		1-02 *							1					0-1/H	62
C11		H05D1		1-03 *							2					4-3/H	62
C11		C06L2		1-04 *												7-1/H	62
C11				1													62
C12		A09K2		1-01 *							1					2-3/H	63
C12		A06N1		1-02 *							2					1	63
C12		A06T2		1-03 *							1					4-5/H	63
C12		C06F1		1-04 *												8-0/H	63
C12				1													63

TM42.C RUN NAME	A/P	PIN NAME	ORDER PIN	31-JUL-75 MAY - ORDER	Q	DRAM	RV	RC	Y	X	Z	REMARKS	29-JUL-76	11:19	NC FLAG	EXCEPTIONS	RUN NUMBER
C13		A09H2		1-01 *							2					3-1/H	64
C13		H09A1		1-02 *							1					0-1/H	64
C13		H06M1		1-03 *							2					3-3/H	64
C13		C06F1		1-04 *												6-5/H	64
C13				1													64
C14		A06V2		1-01 *							1					0-4/H	65
C14		A06V1		1-02 *							2					4-3/H	65
C14		C06H1		1-03 *							1					3-3/H	65
C14		H09V2		1-04 *												0-2/H	65
C14				1													65
C15		H06E1		1-01 *							1					0-5/H	66
C15		H06J2		1-02 *							2					2-2/H	66
C15		H04H2		1-03 *							1					2-5/H	66
C15		C06J1		1-04 *												5-3/H	66
C15				1													66
CER(1) H		D01D1		1-01 *							1					7-7/H	67
CER(1) H		F01E1		1-02 *												7-1/H	67
CER(1) H				1													67
CHAR CNTO H		F01S1		1-01 *							1					1	68
CHAR CNTO H		F02S1		1-02 *							2					1	68
CHAR CNTO H		F03S1		1-03 *							1					10-3/H	68
CHAR CNTO H		C04C1		1-04 *												12-3/H	68
CHAR CNTO H				1													68
CHAR SHIFT H		C01M1		1-01 *							2					1	69
CHAR SHIFT H		C02M1		1-02 *							1					1	69
CHAR SHIFT H		C03M1		1-03 *							2					1	69
CHAR SHIFT H		C04M1		1-04 *												3-0/H	69
CHAR SHIFT H				1													69
CHK CHAR L		C05N2		1-01 *							1					5-1/H	70
CHK CHAR L		H08U2		1-02 *												5-1/H	70
CHK CHAR L				1													70
CLK A H		C06P1														1-PIN RUN	71
CLK P H		C06H1														1-PIN RUN	72
CLK T H		C08E1														1-PIN RUN	73
CLK D H		C08D1														1-PIN RUN	74
CLK L CK CHAR REG L		C05F2		1-01 *							1					1	75
CLK I CK CHAR REG L		C06F2		1-02 *												1-0/H	75
CLK L CK CHAR REG L				1													75
CLOCK H		A07M1		1-01 *							1					4	76
CLOCK H		H02F1		1-02 *												4-0/H	76
CLOCK H				1													76



TH2.C RUN NAME	APP288.V34(62)-1 A/P PJA GAME	ORDER PIN	31-JUL-75 MAY - ORDER	Q	DRAW OPT	RV PG Y	X	Z	REMARKS	29-JUL-76	11:19 NC FLAG	PAGE 9 LENGTH EXCEPTIONS	RUN NUMBER
CPC 3(1) H	C0581		1-01 *					1			1-4/8		101
CPC 3(1) H	C0751		1-02 *								1-4/8		101
CPC 3(1) H			1										101
CPC 4(1) H	C05K1		1-01 *					1			1-4/8		102
CPC 4(1) H	C07K1		1-02 *								1-4/8		102
CPC 4(1) H			1										102
CPC 5(1) H	C05M1		1-01 *					1			1-4/8		103
CPC 5(1) H	C07M1		1-02 *								1-4/8		103
CPC 5(1) H			1										103
CPC 6(1) H	C05N1		1-01 *					1			1-4/8		104
CPC 6(1) H	C07N1		1-02 *								1-4/8		104
CPC 6(1) H			1										104
CPC 7(1) H	C05P1		1-01 *					1			1-4/8		105
CPC 7(1) H	C07P1		1-02 *								1-4/8		105
CPC 7(1) H			1										105
CPC 8(1) H	C05Q1		1-01 *					1			1-4/8		106
CPC 8(1) H	C07Q1		1-02 *								1-4/8		106
CPC 8(1) H			1										106
CTOD H	C09N1		1-01 *					1			6-1/8		107
CTOD H	C09V2		1-02 *								6-1/8		107
CTOD H			1										107
D BFFR I 0 L	C01F1		1-01 *					1			7-7/8		108
D BFFR I 0 L	C04P1		1-02 *								7-7/8		108
D BFFR I 0 L			1										108
D BFFR I 1 L	C03F1		1-01 *					1			7-5/8		109
D BFFR I 1 L	C04U2		1-02 *								7-5/8		109
D BFFR I 1 L			1										109
D BFFR I 2 L	C01D2		1-01 *					1			2-2/8		110
D BFFR I 2 L	C04S1		1-02 *								2-2/8		110
D BFFR I 2 L			1										110
D BFFR I 3 L	C04T2		1-01 *					1			2-3/8		111
D BFFR I 3 L	C03F2		1-02 *								2-3/8		111
D BFFR I 3 L			1										111
D BFFR I 4 L	C04F1		1-01 *					1			4-3/8		112
D BFFR I 4 L	C01F2		1-02 *								4-3/8		112
D BFFR I 4 L			1										112
D BFFR I 5 L	C02F1		1-01 *					1			6-3/8		113
D BFFR I 5 L	C04D1		1-02 *								6-3/8		113
D BFFR I 5 L			1										113
D BFFR I 6 L	C04C1		1-01 *					1			4-1/8		114
D BFFR I 6 L	C02E2		1-02 *								4-1/8		114
D BFFR I 6 L			1										114

TH2.C RUN NAME	APP288.V34(62)-1 A/P PJA NAME	ORDER PIN	31-JUL-75 MAY - ORDER	Q	DRAW OPT	RV PG Y	X	Z	REMARKS	29-JUL-76	11:19 NC FLAG	PAGE 10 LENGTH EXCEPTIONS	RUN NUMBER
D BFFR I 7 L	C03D2		1-01 *					1			6-4/8		115
D BFFR I 7 L	C04R1		1-02 *								6-4/8		115
D BFFR I 7 L			1										115
D BFFR I P L	C02D2		1-01 *					1			1-1/8		116
D BFFR I P L	C04F1		1-02 *								1-1/8		116
D BFFR I P L			1										116
D04 REC H	C04D1		1-01 *					1			3-4/8		117
D04 REC H	C04R1		1-02 *								3-4/8		117
D04 REC H			1										117
D04 TM(0) L	C04E1		1-01 *					1			2-7/8		118
D04 TM(0) L	C04R1		1-02 *								2-7/8		118
D04 TM(0) L			1										118
D01 REC H	C04A1		1-01 *					1			4-1/8		119
D01 REC H	C04R2		1-02 *								4-1/8		119
D01 REC H			1										119
D01 TM(0) L	C04C1		1-01 *					1			2-5/8		120
D01 TM(0) L	C04R1		1-02 *								2-5/8		120
D01 TM(0) L			1										120
D02 REC H	C04K1		1-01 *					1			3-1/8		121
D02 REC H	C04S1		1-02 *								3-1/8		121
D02 REC H			1										121
D02 TM(0) L	C04M2		1-01 *					1			3-5/8		122
D02 TM(0) L	C04R2		1-02 *								3-5/8		122
D02 TM(0) L			1										122
D03 REC H	C04F1		1-01 *					1			3-5/8		123
D03 REC H	C04S2		1-02 *								3-5/8		123
D03 REC H			1										123
D03 TM L	C04L2		1-01 *					1			3-1/8		124
D03 TM L	C04R2		1-02 *								3-1/8		124
D03 TM L			1										124
D04 REC H	C04M1		1-01 *					1			3-3/8		125
D04 REC H	C04R2		1-02 *								3-3/8		125
D04 REC H			1										125
D04 TM(0) L	C04P2		1-01 *					1			3-3/8		126
D04 TM(0) L	C04E2		1-02 *								3-3/8		126
D04 TM(0) L			1										126
D05 REC H	C04L1		1-01 *					1			3-1/8		127
D05 REC H	C04R1		1-02 *								3-1/8		127
D05 REC H			1										127
D05 TM(0) L	C04N2		1-01 *					1			3-1/8		128
D05 TM(0) L	C04F2		1-02 *								3-1/8		128
D05 TM(0) L			1										128

TM02.C RUN NAME	A/P	PIN NAME	ORDER PIN	RAY - ORDER	Q	DRAW OPT	RV	RG	Y	X	Z	REMARKS	29-Jul-76	11:19	PAGE 11	NC LENGTH EXCEPTIONS	RUN NUMBER
D06 REC H		A05D1		1-01 *							1					2-6/8	129
D06 REC H		A08U2		1-02 *												2-6/8	129
D06 REC H				1													129
D06 TM(0) L		A05F1		1-01 *							1					2-1/8	130
D06 TM(0) L		A08H1		1-02 *												2-1/8	130
D06 TM(0) L				1													130
D07 REC H		A05A1		1-01 *							1					3-4/8	131
D07 REC H		A08V1		1-02 *												3-4/8	131
D07 REC H				1													131
D07 TM(0) L		A05C1		1-01 *							1					2-5/8	132
D07 TM(0) L		A08H2		1-02 *												2-5/8	132
D07 TM(0) L				1													132
D08 REC H		A05K1		1-01 *							1					3-3/8	133
D08 REC H		A08V2		1-02 *												3-3/8	133
D08 REC H				1													133
D08 TM(0) L		A05M2		1-01 *							1					2-1/8	134
D08 TM(0) L		A08J1		1-02 *												2-1/8	134
D08 TM(0) L				1													134
D09 REC H		A05F1		1-01 *							1					3-6/8	135
D09 REC H		A08A1		1-02 *												3-6/8	135
D09 REC H				1													135
D09 TM(0) L		A05L2		1-01 *							1					1-5/8	136
D09 TM(0) L		A08K1		1-02 *												1-5/8	136
D09 TM(0) L				1													136
D10 REC H		A05M1		1-01 *							1					2-0/8	137
D10 REC H		A08R1		1-02 *												2-0/8	137
D10 REC H				1													137
D10 TM(0) L		A05P2		1-01 *							1					2-3/8	138
D10 TM(0) L		A08K2		1-02 *												2-3/8	138
D10 TM(0) L				1													138
D11 REC H		A05I1		1-01 *							1					2-7/8	139
D11 REC H		A08P2		1-02 *												2-7/8	139
D11 REC H				1													139
D11 TM(0) L		A05N2		1-01 *							1					1-7/8	140
D11 TM(0) L		A08L1		1-02 *												1-7/8	140
D11 TM(0) L				1													140
D12 REC H		A06D1		1-01 *							1					3-7/8	141
D12 REC H		A08C1		1-02 *												3-7/8	141
D12 REC H				1													141
D12 TM(0) L		A06E1		1-01 *							1					2-3/8	142
D12 TM(0) L		A08L2		1-02 *												2-3/8	142
D12 TM(0) L				1													142

TM02.C RUN NAME	A/P	PIN NAME	ORDER PIN	RAY - ORDER	Q	DRAW OPT	RV	RG	Y	X	Z	REMARKS	29-Jul-76	11:19	PAGE 12	NC LENGTH EXCEPTIONS	RUN NUMBER
D13 REC H		A06A1		1-01 *							1					4-5/8	143
D13 REC H		A08D1		1-02 *												4-5/8	143
D13 REC H				1													143
D13 TM(0) L		A06C1		1-01 *							1					1-7/8	144
D13 TM(0) L		A08M1		1-02 *												1-7/8	144
D13 TM(0) L				1													144
D14 REC H		A06K1		1-01 *							1					3-6/8	145
D14 REC H		A08D2		1-02 *												3-6/8	145
D14 REC H				1													145
D14 TM(0) L		A06M2		1-01 *							1					1-4/8	146
D14 TM(0) L		A08M2		1-02 *												1-4/8	146
D14 TM(0) L				1													146
D15 REC H		A06F1		1-01 *							1					3-7/8	147
D15 REC H		A08E1		1-02 *												3-7/8	147
D15 REC H				1													147
D15 TM(0) L		A06L2		1-01 *							1					1-3/8	148
D15 TM(0) L		A08N1		1-02 *												1-3/8	148
D15 TM(0) L				1													148
D16 REC H		A06M1		1-01 *							1					3-4/8	149
D16 REC H		A08F2		1-02 *												3-4/8	149
D16 REC H				1													149
D16 TM(0) L		A06P2		1-01 *							1					1-5/8	150
D16 TM(0) L		A08N2		1-02 *												1-5/8	150
D16 TM(0) L				1													150
D17 REC H		A06L1		1-01 *							1					3-5/8	151
D17 REC H		A08F1		1-02 *												3-5/8	151
D17 REC H				1													151
D17 TM(0) L		A06N2		1-01 *							1					1-3/8	152
D17 TM(0) L		A08P2		1-02 *												1-3/8	152
D17 TM(0) L				1													152
DATA H		C0402		1-01 *							1					2	153
DATA H		C07B2		1-02 *													153
DATA H				1												2-0/8	153
DATA HALF(1) H		E01P2		1-01 *							2					1	154
DATA HALF(1) H		E02P2		1-02 *							1					1	154
DATA HALF(1) H		E03P2		1-03 *							2					1	154
DATA HALF(1) H		E04P2		1-04 *							1					2	154
DATA HALF(1) H		E07P2		1-05 *												2	154
DATA HALF(1) H				1												5-0/8	154
DATA I		C04D1														1-PIN RUN	155
DATA HDS H		D05H2														1-PIN RUN	156

TM02.C RUN NAME	WFP2RR.V34(02)-1 A/P PIN ORDER PIN	31-Jul-75 RAY - ORDER	Q DPAW RV PG Y X Z	29-Jul-76 REMARKS	11:19 DC LENGTH EXCEPTIONS FLAG	PAGE 13	RUN NUMBER
DATA XFER H	AN7H1	1-01 *			1-4/8		157
DATA XFER H	AN9H1	1-02 *			1-4/8		157
DATA XFER H		1			1-4/8		157
DC LO L	AN9J1	1-01 *			4-2/8		158
DC LO L	HU4J1	1-02 *			1-4/8		158
DC LO L	PA6J1	1-03 *			5-6/8		158
DC LO L		1					158
DD TRK 2(1) H	CB601	1-01 *			4-4/8		159
DD TRK 2(1) H	DM1F2	1-02 *			8-1/8		159
DD TRK 2(1) H	FA4R1	1-03 *			12-5/8		159
DD TRK 2(1) H		1					159
DD TRK 2(1) L	CM1V1	1-01 *			7-5/8		160
DD TRK 2(1) L	FU3A1	1-02 *			7-5/8		160
DD TRK 2(1) L		1					160
DD TRK 1(1) H	CB6C1	1-01 *			4-5/8		161
DD TRK 1(1) H	DM3F2	1-02 *			7-1/8		161
DD TRK 1(1) H	FA4S1	1-03 *			11-6/8		161
DD TRK 1(1) H		1					161
DD TRK 1(1) L	CM3V1	1-01 *			7-5/8		162
DD TRK 1(1) L	FA3H2	1-02 *			7-5/8		162
DD TRK 1(1) L		1					162
DD TRK 2(1) H	CB6A1	1-01 *			9-3/8		163
DD TRK 2(1) H	DM1F2	1-02 *			4-1/8		163
DD TRK 2(1) H	FA4F1	1-03 *			13-4/8		163
DD TRK 2(1) H		1					163
DD TRK 2(1) L	FA1P1	1-01 *			2-5/8		164
DD TRK 2(1) L	FU3H1	1-02 *			2-5/8		164
DD TRK 2(1) L		1					164
DD TRK 3(1) H	CB6C2	1-01 *			10-1/8		165
DD TRK 3(1) H	DM3F2	1-02 *			1-3/8		165
DD TRK 3(1) H	FA4H1	1-03 *			11-4/8		165
DD TRK 3(1) H		1					165
DD TRK 3(1) L	FA3J1	1-01 *			1-1/8		166
DD TRK 3(1) L	FA3K2	1-02 *			1-1/8		166
DD TRK 3(1) L		1					166
DD TRK 4(1) H	FA1F2	1-01 *			2-5/8		167
DD TRK 4(1) H	FA4R2	1-02 *			1-3/8		167
DD TRK 4(1) H	FA6V1	1-03 *			4-0/8		167
DD TRK 4(1) H		1					167
DD TRK 4(1) L	FA1J1	1-01 *			2-5/8		168
DD TRK 4(1) L	FA4D2	1-02 *			2-5/8		168
DD TRK 4(1) L		1					168

TM02.C RUN NAME	WFP2RR.V34(02)-1 A/P PIN ORDER PIN	31-Jul-75 RAY - ORDER	Q DPAW RV PG Y X Z	29-Jul-76 REMARKS	11:19 DC LENGTH EXCEPTIONS FLAG	PAGE 14	RUN NUMBER
DD TRK 5(1) H	DM2F2	1-01 *			7-7/8		169
DD TRK 5(1) H	FA4S2	1-02 *			1-5/8		169
DD TRK 5(1) H	FA6T2	1-03 *			9-4/8		169
DD TRK 5(1) H		1					169
DD TRK 5(1) L	CM2V1	1-01 *			7-5/8		170
DD TRK 5(1) L	FA4F1	1-02 *			7-5/8		170
DD TRK 5(1) L		1					170
DD TRK 6(1) H	FA2F2	1-01 *			1-6/8		171
DD TRK 6(1) H	FA4Y2	1-02 *			1-5/8		171
DD TRK 6(1) H	FA6S2	1-03 *			3-3/8		171
DD TRK 6(1) H		1					171
DD TRK 6(1) L	FA2J1	1-01 *			1-7/8		172
DD TRK 6(1) L	FA4E2	1-02 *			1-7/8		172
DD TRK 6(1) L		1					172
DD TRK 7(1) H	FA3H2	1-01 *			3-1/8		173
DD TRK 7(1) H	FA4M2	1-02 *			1-4/8		173
DD TRK 7(1) H	FA6U1	1-03 *			4-5/8		173
DD TRK 7(1) H		1					173
DD TRK 7(1) L	FA3P1	1-01 *			3-1/8		174
DD TRK 7(1) L	FA4F2	1-02 *			3-1/8		174
DD TRK 7(1) L		1					174
DD TRK 8 H	CB6U1	1-01 *			6-7/8		175
DD TRK 8 H	FA2R2	1-02 *			3-7/8		175
DD TRK 8 H	FA4P2	1-03 *			10-6/8		175
DD TRK 8 H		1					175
DD TRK 8 L	FA2P1	1-01 *			3-3/8		176
DD TRK 8 L	FA4H1	1-02 *			3-3/8		176
DD TRK 8 L		1					176
DEM H	AN9U2	1-01 *			4-1/8		177
DEM H	FA6P1	1-02 *			4-1/8		177
DEM H		1					177
DEM 8 (SH) H	AN3P2	1-01 *			9-5/8		178
DEM 8 (SH) H	DM6L2	1-02 *			9-5/8		178
DEM 8 (SH) H		1					178
DEM 1(0) H	AN3V2	1-01 *			9-5/8		179
DEM 1(0) H	DM6T2	1-02 *			9-5/8		179
DEM 1(0) H		1					179
DEM 2(1) H	CM6V2	1-01 *			1		180
DEM 2(1) H	CM7V2	1-02 *			2-3/8		180
DEM 2(1) H	DM9H2	1-03 *			3-3/8		180
DEM 2(1) H		1					180
DPA REC H	AN6S1	1-01 *			2-1/8		181
DPA REC H	AN8H1	1-02 *			2-1/8		181
DPA REC H		1					181

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TM02.C RUN NAME	HW288.V34(62)-1 31-Jul-75				Q	DRAW	RV	RG	Y	X	Z	REMARKS	29-Jul-76		PAGE 15	RUN NUMBER
	A/P	PIN NAME	ORDER PIN	RAY - ORDER									NO	LENGTH		
DPA TM I		A0601		1-01 *										2-0/8		182
DPA TM I		A0801	E08P1	1-02 *										12-1/8		182
DPA TM I		E08P1		1-03 *												182
DPA TM I				1										14-7/8		182
DROPPED HIT H H		C01K1													1-PIN RUN	183
DROPPED HIT I H		C03E1													1-PIN RUN	184
DROPPED HIT 2 H		C01U1													1-PIN RUN	185
DROPPED HIT 3 H		E04S1													1-PIN RUN	186
DROPPED HIT 4 H		E01S1													1-PIN RUN	187
DROPPED HIT 5 H		C02F1													1-PIN RUN	188
DROPPED HIT 6 H		E02S1													1-PIN RUN	189
DROPPED HIT 7 H		C03U1													1-PIN RUN	190
DROPPED HIT P H		C02U1													1-PIN RUN	191
DRV CLR PLS H		A09P2		1-01 *										5-7/8		192
DRV CLR PLS H		A01D2		1-02 *												192
DRV CLR PLS H				1										5-7/8		192
DRV SET PLS H		C04S2		1-01 *										1		193
DRV SET PLS H		C05S2		1-02 *										1-4/8		193
DRV SET PLS H		C07S2		1-03 *										1-4/8		193
DRV SET PLS H		C09S2		1-04 *												193
DRV SET PLS H				1										1-0/8		193
DRV SET PLS L		C05E2		1-01 *										1-4/8		194
DRV SET PLS L		C07F2		1-02 *										1-0/8		194
DRV SET PLS L		C09P1		1-03 *										2-4/8		194
DRV SET PLS L		D06A1		1-04 *												194
DRV SET PLS L				1										5-6/8		194
DS ENABLE		C09B2		1-01 *												195
DS ENABLE		E09D2		1-02 *												195
DS ENABLE				1												195
DS0		E06F1		1-01 *										2-3/8		196
DS0		E09M1		1-02 *												196
DS0				1										2-3/8		196
DS1		E06U1		1-01 *										2-5/8		197
DS1		E09K1		1-02 *												197
DS1				1										2-5/8		197
DS2		E06V2		1-01 *										2-2/8		198
DS2		E09J1		1-02 *												198
DS2				1										2-2/8		198

TM02.C RUN NAME	HW288.V34(62)-1 31-Jul-75				Q	DRAW	RV	RG	Y	X	Z	REMARKS	29-Jul-76		PAGE 16	RUN NUMBER
	A/P	PIN NAME	ORDER PIN	RAY - ORDER									NO	LENGTH		
DT0 H		E03H2		1-01 *										2-5/8		199
DT0 H		E07J2		1-02 *												199
DT0 H				1										2-5/8		199
DT1 H		A03M2		1-01 *										2-5/8		200
DT1 H		A07N2		1-02 *												200
DT1 H				1										2-5/8		200
DT2 (SA) L		E03P1		1-01 *										2-7/8		201
DT2 (SA) L		E07K1		1-02 *												201
DT2 (SA) L				1										2-7/8		201
EAD0TF(1) H		C06N2		1-01 *										1		202
EAD0TF(1) H		C07N2		1-02 *										1-4/8		202
EAD0TF(1) H		C09N2		1-03 *												202
EAD0TF(1) H				1										2-4/8		202
EBL I		E05L2		1-01 *										2-4/8		203
EBL I		E09L2		1-02 *												203
EBL I				1										2-4/8		203
ECR H		A04P1		1-01 *										0-1/8		204
ECR H		A04N1		1-02 *										0-5/8		204
ECR H		A05P1		1-03 *										0-1/8		204
ECR H		A05R1		1-04 *										0-5/8		204
ECR H		A06F1		1-05 *										3-1/8		204
ECR H		A09F2		1-06 *												204
ECR H				1										4-5/8		204
ECS H		A09J2		1-01 *										3-5/8		205
ECS H		A05U2		1-02 *										1		205
ECS H		A04U2		1-03 *										1-7/8		205
ECS H		E04F2		1-04 *										1		205
ECS H		E05F2		1-05 *										1		205
ECS H		E06F2		1-06 *										1-5/8		205
ECS H		E06S2		1-07 *										1		205
ECS H		E05S2		1-08 *										1		205
ECS H		E04S2		1-09 *												205
ECS H				1										12-1/8		205
EDS H		A04B1		1-01 *										1		206
EDS H		A05R1		1-02 *										1		206
EDS H		A06B1		1-03 *										2-3/8		206
EDS H		A06U2		1-04 *										2-5/8		206
EDS H		A09M2		1-05 *												206
EDS H				1										7-0/8		206
EIGHTY L		D04C1		1-01 *										2		207
EIGHTY L		D07C1		1-02 *												207
EIGHTY L				1										2-0/8		207
END H		A07S2		1-01 *										4-7/8		208
END H		E01E2		1-02 *												208
END H				1										4-7/8		208

235	7-1/R	1	1-01	0-912	EXC FC (1)
235	7-1/R	1	1-02	0-912	EXC FC (1)
234	7-1/R	1	1-01	0-952	EXC FC (1)
234	7-1/R	1	1-02	0-952	EXC FC (1)
233	2-0/R	1	1-01	0-902	EXC FC (1)
233	2	1	1-02	0-902	EXC FC (1)
232	2-0/R	1	1-01	0-902	EXC FC (1)
232	2	1	1-02	0-902	EXC FC (1)
231	2-0/R	1	1-01	0-902	EXC FC (1)
231	2	1	1-02	0-902	EXC FC (1)
230	2-4/R	1	1-01	0-952	EXC FC (1)
230	2-4/R	1	1-02	0-952	EXC FC (1)
229	2-5/R	1	1-01	0-902	EXC FC (1)
229	2-5/R	1	1-02	0-902	EXC FC (1)
228	1-0/R	1	1-01	0-901	EXC FC (1)
227	12-2/R	1	1-01	0-902	EXC FC (1)
227	4-3/R	2	1-02	0-901	EXC FC (1)
227	4-7/R	2	1-01	0-901	EXC FC (1)
226	11-7/R	1	1-01	0-901	EXC FC (1)
226	10-7/R	2	1-02	0-902	EXC FC (1)
226	1	2	1-01	0-902	EXC FC (1)
225	2-4/R	1	1-01	0-902	EXC FC (1)
225	1-0/R	1	1-02	0-902	EXC FC (1)
225	1	2	1-01	0-902	EXC FC (1)
224	1-0/R	1	1-01	0-902	EXC FC (1)
223	1-0/R	1	1-01	0-902	EXC FC (1)
222	2-5/R	1	1-01	0-901	EXC FC (1)
222	2-5/R	1	1-02	0-901	EXC FC (1)

TMA2C RUN NAME: 0024-V34(02)-1 31-JUL-75  
 A/P: PIN: 00000 BAY: 0 ORAN HV PG: Y X Z  
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 0024-V34(02)-1 31-JUL-75  
 A/P: PIN: 00000 BAY: 0 ORAN HV PG: Y X Z  
 29-JUL-76 11:19 PAGE 17  
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221	1-4/R	1	1-01	0-901	END FC (1)
221	1-4/R	1	1-02	0-901	END FC (1)
220	0-1/R	1	1-01	0-902	END FC (1)
220	0-1/R	1	1-02	0-901	END FC (1)
219	0-5/R	1	1-01	0-901	END FC (1)
219	0-5/R	1	1-02	0-902	END FC (1)
218	1-0/R	1	1-01	0-902	END FC (1)
218	1	1	1-02	0-902	END FC (1)
217	1-4/R	1	1-01	0-902	END FC (1)
217	1-4/R	1	1-02	0-902	END FC (1)
216	1-4/R	1	1-01	0-902	END FC (1)
216	1-4/R	1	1-02	0-902	END FC (1)
215	1-3/R	1	1-01	0-902	END FC (1)
215	1-3/R	1	1-02	0-901	END FC (1)
214	1-0/R	1	1-01	0-901	END FC (1)
214	1-0/R	1	1-02	0-901	END FC (1)
213	1-0/R	1	1-01	0-902	END FC (1)
213	1-0/R	1	1-02	0-901	END FC (1)
212	2-7/R	1	1-01	0-902	END FC (1)
212	2-7/R	1	1-02	0-902	END FC (1)
211	1-0/R	1	1-01	0-901	END FC (1)
211	2-5/R	2	1-02	0-901	END FC (1)
210	0-2/R	1	1-01	0-901	END FC (1)
210	0-2/R	2	1-02	0-901	END FC (1)
210	0-3/R	1	1-01	0-902	END FC (1)
210	0-3/R	2	1-02	0-902	END FC (1)
209	0-3/R	1	1-01	0-901	END FC (1)
209	0-3/R	2	1-02	0-901	END FC (1)
209	0-3/R	1	1-01	0-901	END FC (1)
209	0-3/R	2	1-02	0-901	END FC (1)

TMA2C RUN NAME: 0024-V34(02)-1 31-JUL-75  
 A/P: PIN: 00000 BAY: 0 ORAN HV PG: Y X Z  
 29-JUL-76 11:19 PAGE 17  
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 0024-V34(02)-1 31-JUL-75  
 A/P: PIN: 00000 BAY: 0 ORAN HV PG: Y X Z  
 29-JUL-76 11:19 PAGE 17  
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TM02.C RUN NAME	APP FILE NAME	ORDER PIN	BAY - ORDER	Q	DRAW OPT	RV	RG	Y	X	Z	REMARKS	29-JUL-76 11:19	PAGE 19 NC LENGTH EXCEPTIONS FLAG	RUN NUMBER
FCCLK H	AS0J2		1-01 *							1			0-1/H	236
FCCLK H	AS0K1		1-02 *										0-1/H	236
FCCLK H			1											236
FCOF(1) L	CA7H2		1-01 *							1			1-5/d	237
FCOF(1) I	CA9E2		1-02 *										1-5/d	237
FCOF(1) I			1											237
FMK PATTERN H	FA4E2												1-PIN RUN	238
FMT 0(1) H	FA8M2		1-01 *							1			0-1/H	239
FMT 1(1) H	FA8F1		1-02 *										6-1/H	239
FMT 1(1) H			1											239
FMT 1(1) H	FA8M2		1-01 *							1			7-3/H	240
FMT 1(1) H	FA8U2		1-02 *										7-3/H	240
FMT 1(1) H			1											240
FMT 2(1) H	FA8V2		1-01 *							1			1-2/d	241
FMT 2(1) H	FA8S1		1-02 *										1-2/d	241
FMT 2(1) H			1											241
FMT 3(1) H	FA8T2		1-01 *							1			10-3/H	242
FMT 3(1) H	FA8R1		1-02 *										10-3/d	242
FMT 3(1) H			1											242
FORTY H	FA4D2		1-01 *							1			2	243
FORTY H	FA7D2		1-02 *											243
FORTY H			1										2-3/H	243
FWD CRCS H	FA5K2												1-PIN RUN	244
FWD CRCS L	FA5P2												1-PIN RUN	245
FWD H	AA2A1		1-01 *	2						2			0-1/H	246
FWD H	AA2B1		1-02 *							1			0-1/H	246
FWD H	AA2C1		1-03 *							2			2-3/H	246
FWD H	AA2U2		1-04 *							1			0-7/H	246
FWD H	CA9H2		1-05 *							2			1	246
FWD H	CA8H2		1-06 *							1			2	246
FWD H	CA5K2		1-07 *											246
FWD H			1										12-4/H	246
FWD L	FA5H1												1-PIN RUN	247
FWD CRCS(1) H	FA5T2												1-PIN RUN	248
GND	FA4T1		1-01 *							2			1-3/H	249
GND	FA4K1		1-02 *							1			1-2/H	249
GND	FA5N1		1-03 *							2			1	249
GND	FA6G1		1-04 *											249
GND			1										3-5/H	249

TM02.C RUN NAME	APP FILE NAME	ORDER PIN	BAY - ORDER	Q	DRAW OPT	RV	RG	Y	X	Z	REMARKS	29-JUL-76 11:19	PAGE 20 NC LENGTH EXCEPTIONS FLAG	RUN NUMBER
GO RUF H	CA6K2		1-01 *							2			1	250
GO RUF H	CA7K2		1-02 *							1			1-4/H	250
GO RUF H	CA9K2	EM8D2	1-03 *							2			5-3/H	250
GO RUF H	FA8U2		1-04 *										7-7/H	250
GO RUF H			1											250
GO L	FA7B1		1-01 *							1			1-4/H	251
GO L	FA8N1		1-02 *										1-4/H	251
GO L			1											251
IDB(1) H	FA4U2		1-01 *							1			2	252
IDB(1) H	FA7U2		1-02 *											252
IDB(1) H			1										2-0/H	252
II CC L	FA5M1		1-01 *							1			1	253
II CC L	FA6M1		1-02 *											253
II CC L			1										1-0/H	253
INC COND H	FA3E1		1-01 *							1			4-1/H	254
INC COND H	FA4J2		1-02 *										4-1/H	254
INC COND H			1											254
INC DATA H	FA3D1		1-01 *							1			7-7/H	255
INC DATA H	FA4V1		1-02 *											255
INC DATA H			1										7-7/H	255
INC FMK I	FA7E1		1-01 *							1			11-7/H	256
INC FMK I	FA6L1		1-02 *											256
INC FMK I			1										11-7/H	256
INC PREAMBLE I	AA7A1		1-01 *							1			14-5/H	257
INC PREAMBLE I	FA6F1		1-02 *											257
INC PREAMBLE I			1										14-5/H	257
INC/VPE L	FA4F1		1-01 *							2			1	258
INC/VPE I	FA5F1		1-02 *							1			2-3/H	258
INC/VPE I	FA9H1		1-03 *											258
INC/VPE I			1										3-3/H	258
INIT H	FA5R1		1-01 *							1			2-6/H	259
INIT H	FA9K2		1-02 *											259
INIT H			1										2-6/d	259
INIT PLS(1) H	AA1U2		1-01 *							1			13-3/H	260
INIT PLS(1) H	FA4D1		1-02 *							2			1	260
INIT PLS(1) H	FA5D1		1-03 *							1			2-4/H	260
INIT PLS(1) H	FA9D1		1-04 *											260
INIT PLS(1) H			1										16-7/H	260
INIT PLS(1) L	FA9C1												1-PIN RUN	261
INT PAR	FA9N1												1-PIN RUN	262

TMA2.C	MPP2HW.V34(62)-1 31-JUL-75										29-JUL-76	11:19	PAGE 21			
RUN NAME	A/P	PIN	ORDER	BAY -	O	DRAW	RV	RG	Y	X	Z	REMARKS	NC	LENGTH	EXCEPTIONS	RUN NUMBER
		NAME	PIN	ORDER									FLAG			
IRD H		A0302		1-01 *										9-1/H		263
IRD H		F04A1		1-02 *										4-7/H		263
IRD H		F0602		1-03 *												263
IRD H				1										14-0/H		263
LCTOD(1) H		C09L1		1-01 *										7-7/H		264
LCTOD(1) H		E06U2		1-02 *										7-7/H		264
LCTOD(1) H				1												264
LRC CHM 0 H		F05R1													1-PIN RUN	265
LRC CHM 1 H		F05C1													1-PIN RUN	266
LRC CHM 2 H		F05F1													1-PIN RUN	267
LRC CHM 3 H		F05J2													1-PTH RUN	268
LRC CHM 4 H		F05M2													1-PIN RUN	269
LRC CHM 5 H		F05D2													1-PIN RUN	270
LRC CHM 6 H		F05H1													1-PIN RUN	271
LRC CHM 7 H		F05J1													1-PIN RUN	272
LRC CHM P(1) H		F05U1													1-PIN RUN	273
LRC STM (SH) L		A01K2		1-01 *										3-4/H		274
LRC STM (SH) L		A07K2		1-02 *										3-4/H		274
LRC STM (SH) L				1												274
MAS CLR 1		D06S2		1-01 *										1		275
MAS CLR 1		D07S2		1-02 *										1		275
MAS CLR 1		D08S2		1-03 *										1		275
MAS CLR 1		D09S2		1-04 *												275
MAS CLR 1				1										3-0/H		275
MAS FAIL H		A06T2		1-01 *										2-3/H		276
MAS FAIL H		A09P2		1-02 *										2-3/H		276
MAS FAIL H				1												276
MID POSTMELP(A) H		C04M1		1-01 *										1-4/H		277
MID POSTMELP(A) H		C06R1		1-02 *										1-4/H		277
MID POSTMELP(A) H				1												277
MM FOR CLR L		F07F2		1-01 *										4-1/H		278
MM FOR CLR L		F06M1		1-02 *										4-1/H		278
MM FOR CLR L				1												278
MMCLR(1) H		D06C1		1-01 *										4-3/H		279
MMCLR(1) H		E07K2		1-02 *										4-3/H		279
MMCLR(1) H				1												279
MOL H		F03V2		1-01 *										2-7/H		280
MOL H		A07M1		1-02 *										2-7/H		280
MOL H				1												280

TMA2.C	MPP2HW.V34(62)-1 31-JUL-75										29-JUL-76	11:19	PAGE 27			
RUN NAME	A/P	PIN	ORDER	BAY -	O	DRAW	RV	RG	Y	X	Z	REMARKS	NC	LENGTH	EXCEPTIONS	RUN NUMBER
		NAME	PIN	ORDER									FLAG			
MOL L		D07A1		1-01 *										1-4/H		281
MOL L		D09A1		1-02 *										1-4/H		281
MOL L				1												281
MULT DD TRF L		F04M1													1-PIN RUN	282
NO CHAR FD L		D05F2													1-PIN RUN	283
NORMAL MODE		C08C1													1-PIN RUN	284
NPZ FOR CHAP L		F05N2													1-PTH RUN	285
OCC TM(1) H		F04M1		1-01 *										1		286
OCC TM(1) H		F05M1		1-02 *										0-5/H		286
OCC TM(1) H		F05J1		1-03 *										0-5/H		286
OCC TM(1) H		F06M1		1-04 *										0-1/H		286
OCC TM(1) H		D09C1		1-05 *										0-3/H		286
OCC TM(1) H				1												286
OCC TM(1) L		A06P2		1-01 *										1-0/H		287
OCC TM(1) L		A09P1		1-02 *										1-0/H		287
OCC TM(1) L				1												287
OCCUPIED PFC H		F06L1		1-01 *										0-1/H		288
OCCUPIED PFC H		D09B1		1-02 *										0-1/H		288
OCCUPIED PFC H				1												288
ODD PFM H		A08F2													1-PIN RUN	289
ONE DET 0 L		C01F2		1-01 *										7-3/H		290
ONE DET 0 L		E04L1		1-02 *										7-3/H		290
ONE DET 0 L				1												290
ONE DET 1 L		C03F2		1-01 *										0-5/H		291
ONE DET 1 L		F04M2		1-02 *										0-5/H		291
ONE DET 1 L				1												291
ONE DET 2 L		D01V2		1-01 *										2-2/H		292
ONE DET 2 L		E04K1		1-02 *										2-2/H		292
ONE DET 2 L				1												292
ONE DET 3 L		F04N2		1-01 *										3-1/H		293
ONE DET 3 L		F03F1		1-02 *										3-1/H		293
ONE DET 3 L				1												293
ONE DET 4 L		F06M1		1-01 *										3-2/H		294
ONE DET 4 L		F01E1		1-02 *										3-2/H		294
ONE DET 4 L				1												294
ONE DET 5 L		C02F2		1-01 *										7-1/H		295
ONE DET 5 L		F04N1		1-02 *										7-1/H		295
ONE DET 5 L				1												295

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TM02.C RUN NAME	WPP268.V34(62)-1 A/P PTN NAME	31-Jul-75 ORDER PIN	HAY - ORDER	Q	DRAM	RV	RG	Y	X	Z	REMARKS	29-Jul-76 11:19	PAGE 23 NO LENGTH EXCEPTIONS FLAG	RUN NUMBER
ONE DFT 6 L	E04K2		1-01 *							1			3-7/H	296
ONE DFT 6 L	E02F1		1-02 *											296
ONE DFT 6 L			1										3-7/H	296
ONE DFT 7 L	D03V2		1-01 *							1			2-7/H	297
ONE DFT 7 L	E04R2		1-02 *											297
ONE DFT 7 L			1										2-7/H	297
ONE DFT P L	D02V2												1-PIN RUN	298
ONE READ H	D04F1												1-PIN RUN	299
ONES L	C04L2		1-01 *							1			2	300
ONES L	C07L2		1-02 *											300
ONES L			1										2-0/H	300
OPI(1) H	D07R2		1-01 *							1			1-4/H	301
OPI(1) H	D09R2		1-02 *											301
OPI(1) H			1										1-4/H	301
OVERFLOW A,B,C, L	D04V1		1-01 *							1			1-2/H	302
OVERFLOW A,B,C, L	E03A1		1-02 *							2			1	302
OVERFLOW A,B,C, L	E02A1		1-03 *							1			1	302
OVERFLOW A,B,C, L	E01A1		1-04 *											302
OVERFLOW A,B,C, L			1										3-2/H	302
PE WRT CLK ENBL L	D04S1		1-01 *							1			2	303
PE WRT CLK ENBL L	D07S1		1-02 *											303
PE WRT CLK ENBL L			1										2-0/H	303
PEF/LRC L	D04V2		1-01 *							2			1	304
PEF/LRC L	D05V2		1-02 *							1			5-7/H	304
PEF/LRC L	F09F1		1-03 *											304
PEF/LRC L			1										6-7/H	304
PERR AND ONE DD TRK H	D01M2		1-01 *							1			1	305
PERR AND ONE DD TRK H	D02M2		1-02 *							2			1	305
PERR AND ONE DD TRK H	D03M2		1-03 *							1			0-4/H	305
PERR AND ONE DD TRK H	D04K1		1-04 *											305
PERR AND ONE DD TRK H			1										2-4/H	305
PERR L	D04J1												1-PIN RUN	306
PES(SR) L	A03D1		1-01 *							1			5-5/H	307
PES(SH) L	E07J1		1-02 *											307
PES(SH) L			1										5-5/H	307
PESH H	A03R1		1-01 *	2						2			10-3/H	308
PESH H	D07R1		1-02 *							1			1	308
PESH H	D06R1		1-03 *							2			1-4/H	308
PESH H	D04R1		1-04 *							1			3-3/H	308
PESH H	E03R1		1-05 *							2			1	308
PESH H	E02R1		1-06 *							1			1	308
PESH H	E01R1	E08L1	1-07 *							2			4-7/H	308
PESH H	E08L1		1-08 *											308
PESH H			1										23-1/H	308

TM02.C RUN NAME	WPP268.V34(62)-1 A/P PTN NAME	31-Jul-75 ORDER PIN	HAY - ORDER	Q	DRAM	RV	RG	Y	X	Z	REMARKS	29-Jul-76 11:19	PAGE 24 NO LENGTH EXCEPTIONS FLAG	RUN NUMBER
PESH L	A03C1		1-01 *							1			9-1/H	309
PESH L	D04D1		1-02 *							2			1	309
PESH L	D05D1		1-03 *							1			1-4/H	309
PESH L	D07D1		1-04 *							2			1-4/H	309
PESH L	D09D1		1-05 *											309
PESH L			1										13-1/H	309
PIP H	D09V2		1-01 *							1			2-2/H	310
PIP H	D07H2		1-02 *											310
PIP H			1										2-2/H	310
POS A(0) H	C04F2		1-01 *							1			2	311
POS A(0) H	C07F2		1-02 *											311
POS A(0) H			1										2-0/H	311
POS A(1) H	C04M2		1-01 *							1			2	312
POS A(1) H	C07M2		1-02 *											312
POS A(1) H			1										2-0/H	312
POST DETECT A,B,C H	C01S2		1-01 *							1			1	313
POST DETECT A,B,C H	C02S2		1-02 *							2			1	313
POST DETECT A,B,C H	C03S2		1-03 *							1			0-4/H	313
POST DETECT A,B,C H	C04S1		1-04 *											313
POST DETECT A,B,C H			1										2-4/H	313
POST OR PRE H	C04N1												1-PIN RUN	314
POST OR REC N ACT L	A03A1		1-01 *							1			10-3/H	315
POST OR REC N ACT L	D01K1		1-02 *							2			1	315
POST OR REC N ACT L	D02K1		1-03 *							1			1	315
POST OR REC N ACT L	D03K1		1-04 *							2			1-6/H	315
POST OR REC N ACT L	D04T2		1-05 *											315
POST OR REC N ACT L			1										14-1/H	315
POSTAMBLE(A) H	D04E2		1-01 *							1			1	316
POSTAMBLE(B) H	D07F2		1-02 *											316
POSTAMBLE(C) H			1										2-0/H	316
PRE A(1) L	D04L2		1-01 *							1			2	317
PRE A(1) L	D07L2		1-02 *											317
PRE A(1) L			1										2-0/H	317
PREAMBLE(A) H	E04U1												1-PIN RUN	318
PULSF(1) H	A09L1												1-PIN RUN	319
PVN(1) H	F05A1		1-01 *							2			1	320
PVN(1) H	F06A1		1-02 *							1			1	320
PVN(1) H	F07A1		1-03 *											320
PVN(1) H			1										2-0/H	320
R00 I	A09L2		1-01 *							1			11-1/H	321
R00 I	D06V1		1-02 *											321
R00 I			1										11-1/H	321

TM22.C  
RUN NAME

APP288.V34(62)-1 31-Jul-75  
A/P PIN ORDER HAY - Q

DRAW RV RC Y X Z  
OPT

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REMARKS

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NO LENGTH EXCEPTIONS  
FLAG

RUN  
NUMBER

R01 I	A19A1		1-01 *									15-3/8	322
R01 I	F07H1		1-02 *										322
R01 I			1									15-3/8	322
R03 I	F06H2		1-01 *									2	323
R03 I	F09H2		1-02 *									7-0/8	323
R03 I			1										323
R04 I	A09M1											1-PIN RUN	324
R06 I	A09P1		1-01 *									13-7/8	325
R06 I	F07J1		1-02 *									13-7/8	325
R06 I			1										325
R07 I	A09D1		1-01 *									15-7/8	326
R07 I	F06M2		1-02 *									15-7/8	326
R07 I			1										326
R10 I	A09F1	F07M1	1-01 *									15-3/8	327
R10 I	F07M1		1-02 *									15-3/8	327
R10 I			1										327
R11 I	A09F1	F07K1	1-01 *									15-1/8	328
R11 I	F07K1	F06K1	1-02 *									1	328
R11 I	F06K1		1-03 *									16-1/8	328
R11 I			1										328
RD 2 H	F07V2		1-01 *									3	329
RD 2 H	F07V2		1-02 *									3-0/8	329
RD 2 H			1										329
RD 1(SM) L	R12U2		1-01 *									3	330
RD 1(SM) L	R12U2		1-02 *									3-0/8	330
RD 1(SM) L			1										330
RD 2(SM) L	R12S2		1-01 *									3	331
RD 2(SM) L	R12S2		1-02 *									3-0/8	331
RD 2(SM) L			1										331
RD 3 H	R12P2		1-01 *									2-5/8	332
RD 3 H	R12P1		1-02 *									2-5/8	332
RD 3 H			1										332
RD 4 H	R12P2		1-01 *									3	333
RD 4 H	R12P2		1-02 *									3-0/8	333
RD 4 H			1										333
RD 5 H	A12H2		1-01 *									3	334
RD 5 H	A12H2		1-02 *									3-0/8	334
RD 5 H			1										334
RD 6(SM) L	A12F2		1-01 *									3	335
RD 6(SM) L	A12F2		1-02 *									3-0/8	335
RD 6(SM) L			1										335

TM22.C  
RUN NAME

APP288.V34(62)-1 31-Jul-75  
A/P PIN ORDER HAY - Q

DRAW RV RC Y X Z  
OPT

29-Jul-76  
REMARKS

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NO LENGTH EXCEPTIONS  
FLAG

RUN  
NUMBER

RD 7(SM) L	A12F2		1-01 *									3	336
RD 7(SM) L	A12F2		1-02 *									3-0/8	336
RD 7(SM) L			1										336
RD ACTV I	D05L2											1-PIN RUN	337
RD ADDR 1(1) H	D01T2		1-01 *									1	338
RD ADDR 1(1) H	D02T2		1-02 *									1	338
RD ADDR 1(1) H	D03T2		1-03 *									6-1/8	338
RD ADDR 1(1) H	D04T2		1-04 *									4-1/8	338
RD ADDR 1(1) H			1										338
RD ADDR 2(1) H	D01P2		1-01 *									5-3/8	339
RD ADDR 2(1) H	D02P1		1-02 *									1	339
RD ADDR 2(1) H	D02U1		1-03 *									1	339
RD ADDR 2(1) H	D01U1		1-04 *									7-3/8	339
RD ADDR 2(1) H			1										339
RD ADDR 3(1) H	D03K2		1-01 *									4-5/8	340
RD ADDR 3(1) H	D03U2		1-02 *									1	340
RD ADDR 3(1) H	D02U2		1-03 *									1	340
RD ADDR 3(1) H	D01U2		1-04 *									6-5/8	340
RD ADDR 3(1) H			1										340
RD P H	R02D2		1-01 *									7-1/8	341
RD P H	R07V1		1-02 *									7-1/8	341
RD P H			1										341
RDA 2 H	F01H2		1-01 *									3-1/8	342
RDA 2 H	F05M2		1-02 *									1-4/8	342
RDA 2 H	F07N2		1-03 *									4-5/8	342
RDA 2 H			1										342
RDA 1 H	F03H2		1-01 *									4-1/8	343
RDA 1 H	F07F2		1-02 *									1-4/8	343
RDA 1 H	F05F2		1-03 *									5-5/8	343
RDA 1 H			1										343
RDA 2 H	E01N1		1-01 *									2-5/8	344
RDA 2 H	E05M2		1-02 *									1-4/8	344
RDA 2 H	E07M2		1-03 *									4-1/8	344
RDA 2 H			1										344
RDA 3 H	E03E2		1-01 *									4-3/8	345
RDA 3 H	F05H2		1-02 *									1-4/8	345
RDA 3 H	F07H2		1-03 *									5-7/8	345
RDA 3 H			1										345
RDA 4 H	F01E2		1-01 *									3-5/8	346
RDA 4 H	F05R2		1-02 *									1-4/8	346
RDA 4 H	F07R2		1-03 *									5-1/8	346
RDA 4 H			1										346



TH02.C RUN NAME	A/P	PTH NAME	ORDER PIN	HAY - ORDER	Q	DRAW	RV	RC	Y	X	Z	REMARKS	29-JUL-76	11:19	PAGE 29	NO LENGTH EXCEPTIONS FLAG	RUN NUMBER
READING H		DM1J2		1-01 *							1					1	370
READING H		DM2J2		1-02 *							2					1	370
READING H		DM3J2		1-03 *							1					1	370
READING H		DM4J2		1-04 *							2					1	370
READING H		DM5J2		1-05 *							1					1-4/H	370
READING H		DM7J2		1-06 *							1					5-4/H	370
READING H				1													
READING L		DM5K2		1-01 *							1					1-4/H	371
READING L		DM7K2		1-02 *							2					1	371
READING L		DM8K2		1-03 *							1					2-4/H	371
READING L				1													371
REC (SP) L		DM1K2		1-01 *							1					3-7/H	372
REC (SP) L		DM7K2		1-02 *							1					3-7/H	372
REC (SM) L				1													372
RECORD ACTIVE H		CM1N1		1-01 *							2					1	373
RECORD ACTIVE H		CM2N1		1-02 *							1					1	373
RECORD ACTIVE H		CM3N1		1-03 *							2					1	373
RECORD ACTIVE H		CM4L1		1-04 *							1					3-0/H	373
RECORD ACTIVE H				1													373
RECORD ACTIVE L		CM4P1		1-01 *							1					3-3/H	374
RECORD ACTIVE L		DM3P2		1-02 *							2					1	374
RECORD ACTIVE L		DM2P2		1-03 *							1					1	374
RECORD ACTIVE L		DM1P2		1-04 *							1					5-3/H	374
RECORD ACTIVE L				1													374
RECORD H		FM7V1		1-01 *							1					1-4/H	375
RECORD H		FM9V1		1-02 *							1					1-4/H	375
RECORD H				1													375
REG WRT L		CM9K2		1-01 *							1					9-3/H	376
REG WRT L		FM6J2		1-02 *							1					9-3/H	376
REG WRT L				1													376
REV CHCS(1) H		DM5U2														1-PIR RUN	377
REV H		AM2V2		1-01 *							1					5-1/H	378
REV H		HM9S1		1-02 *							1					5-1/H	378
REV H				1													378
REV L		EM1F2		1-01 *							2					1	379
REV L		EM2F2		1-02 *							1					1	379
REV L		EM3F2		1-03 *							2					1-3/H	379
REV L		EM5F2		1-04 *							1					2-4/H	379
REV L		EM9F2		1-05 *							1					6-0/H	379
REV L				1													379
REV LKCS H		DM5S2														1-PIR RUN	380
REV LKCS L		DM5F2														1-PIR RUN	381

TH02.C RUN NAME	A/P	PTH NAME	ORDER PIN	HAY - ORDER	Q	DRAW	RV	RC	Y	X	Z	REMARKS	29-JUL-76	11:19	PAGE 30	NO LENGTH EXCEPTIONS FLAG	RUN NUMBER
RG 0500		DM9P2	FM8H1	1-01 *							1					2-7/H	382
RG 0500		DM8H1		1-02 *							1					2-7/H	382
RG 0500				1													382
RG 0501		FM9V2	FM8L1	1-01 *							1					1-6/H	383
RG 0501		FM8L1		1-02 *							1					1-6/H	383
RG 0501				1													383
RG 0502		FM9V1	FM8N1	1-01 *							1					1-3/H	384
RG 0502		FM8N1		1-02 *							1					1-3/H	384
RG 0502				1													384
RG 0503		FM9H1	FM8S1	1-01 *							1					1	385
RG 0503		FM8S1		1-02 *							1					1-0/H	385
RG 0503				1													385
RS 0 H		AM9P2		1-01 *							1					5-4/H	386
RS 0 H		AM5F1		1-02 *							1					5-4/H	386
RS 0 H				1													386
RS 1 H		AM9U1		1-01 *							1					4-5/H	387
RS 1 H		AM5U1		1-02 *							1					4-5/H	387
RS 1 H				1													387
RS 2 H		AM9T2		1-01 *							1					5-2/H	388
RS 2 H		AM5V2		1-02 *							1					5-2/H	388
RS 2 H				1													388
RS 3 H		AM9S2		1-01 *							1					4-5/H	389
RS 3 H		AM4F1		1-02 *							1					4-5/H	389
RS 3 H				1													389
RS 4 H		AM9V2		1-01 *							1					4-3/H	390
RS 4 H		AM4U1		1-02 *							1					4-3/H	390
RS 4 H				1													390
RS SHDN CTR L		FM8P2		1-01 *							2					1	391
RS SHDN CTR L		FM5P2		1-02 *							1					1-4/H	391
RS SHDN CTR L		FM7P2		1-03 *							1					2-4/H	391
RS SHDN CTR L				1													391
RS00 H		DM5N2		1-01 *							1					6-7/H	392
RS00 H		FM7S2		1-02 *							1					6-7/H	392
RS00 H				1													392
RS00(SH) L		AM2K2		1-01 *							1					2-7/H	393
RS00(SH) L		AM7L1		1-02 *							1					2-7/H	393
RS00(SH) L				1													393
RUN H		BM4P1		1-01 *							1					3-1/H	394
RUN H		BM9N1		1-02 *							1					3-1/H	394
RUN H				1													394
RW00(SH) L		AM2P2		1-01 *							1					4-5/H	395
RW00(SH) L		AM7D2		1-02 *							1					4-5/H	395
RW00(SH) L				1													395

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TM22.C RUN NAME	A/P	PIN NAME	ORDER PIN	RAY - ORDER	Q	DRAW OPT	RV	RG	Y	X	Z	REMARKS	29-Jul-76	11:19	PAGE 31	NO LENGTH EXCEPTIONS FLAG	RUN NUMBER
RWNO L		E07J2		1-01 *							1					1-4/H	396
RWNO L		E09J2		1-02 *												1-4/H	396
RWNO L				1													396
RWS H		R03M2		1-01 *							1					2-7/H	397
RWS H		R07F2		1-02 *												2-7/H	397
RWS H				1													397
S CLK L		R04P2		1-01 *							1					7-3/H	398
S CLK L		D08U2		1-02 *												7-3/H	398
S CLK L				1													398
SDWN H		A03S2		1-01 *							1					2-7/H	399
SDWN H		A07M2		1-02 *												2-7/H	399
SDWN H				1													399
SDWN L		C09R1		1-01 *							1					7-7/H	400
SDWN L		F07D2		1-02 *												7-7/H	400
SDWN L				1													400
SELA1T STATUS L		R06K1		1-01 *							1					10-7/H	401
SELA1T STATUS L		F06J1		1-02 *												10-7/H	401
SELA1T STATUS L				1													401
SET AF PAR F/F L		D09M2														1-PIN RUN	402
SET CORR SK 1 L		C04T2		1-01 *							1					2-5/H	403
SET CORR SK 1 L		D01E2		1-02 *												2-5/H	403
SET CORR SK 1 L				1													403
SET CORR SK 2 L		C01R2		1-01 *							1					3-1/H	404
SET CORR SK 2 L		C04U2		1-02 *												3-1/H	404
SET CORR SK 2 L				1													404
SET CORR SK 3 L		C01V2		1-01 *							1					2-1/H	405
SET CORR SK 3 L		D02F2		1-02 *												2-1/H	405
SET CORR SK 3 L				1													405
SET CORR SK 4 L		C02R2		1-01 *							1					2-5/H	406
SET CORR SK 4 L		C04R2		1-02 *												2-5/H	406
SET CORR SK 4 L				1													406
SET CORR SK 5 L		C04F1		1-01 *							1					2-3/H	407
SET CORR SK 5 L		D03F2		1-02 *												2-3/H	407
SET CORR SK 5 L				1													407
SET CORR SK 6 L		C03R2		1-01 *							1					2-3/H	408
SET CORR SK 6 L		C04U1		1-02 *												2-3/H	408
SET CORR SK 6 L				1													408
SET DPAP(1) H		A06F1		1-01 *							1					14-7/H	409
SET DPAP(1) H		F09P1		1-02 *												14-7/H	409
SET DPAP(1) H				1													409

TM22.C RUN NAME	A/P	PIN NAME	ORDER PIN	RAY - ORDER	Q	DRAW OPT	RV	RG	Y	X	Z	REMARKS	29-Jul-76	11:19	PAGE 32	NO LENGTH EXCEPTIONS FLAG	RUN NUMBER
SET DTF L		E08F1		1-01 *							1					1	410
SET DTF L		E09F1		1-02 *												1-0/H	410
SET DTF L				1													410
SET ONE DETECTED L		E04J1		1-01 *							1					3-5/H	411
SET ONE DETECTED L		E03H1		1-02 *							2					1	411
SET ONE DETECTED L		E02H1		1-03 *							1					1	411
SET ONE DETECTED L		E01H1		1-04 *												5-5/H	411
SET ONE DETECTED L				1													411
SET OPI		C07E1		1-01 *							1					6-5/H	412
SET OPI		E09D2		1-02 *												6-5/H	412
SET OPI				1													412
SET OPI D*Y(1) L		E07P2		1-01 *							1					1-4/H	413
SET OPI D*Y(1) L		E09P2		1-02 *												1-4/H	413
SET OPI D*Y(1) L				1													413
SET SCC H		E02F2		1-01 *							1					3-3/H	414
SET SCC H		R07G2		1-02 *												3-3/H	414
SET SCC H				1													414
SET VPF H		R02M2		1-01 *							1					12-7/H	415
SET VPF H		E04U1		1-02 *												12-7/H	415
SET VPF H				1													415
SFC H		C09K1	E06K1	1-01 *							1					6-1/H	416
SFC H		E08K1		1-02 *												6-1/H	416
SFC H				1													416
SHDN 2(1) H		D04N2		1-01 *							1					2	417
SHDN 2(1) H		D07N2		1-02 *												2-0/H	417
SHDN 2(1) H				1													417
SHDN 4(1) H		C05V1		1-01 *							1					1-4/H	418
SHDN 4(1) H		C07V1		1-02 *												1-4/H	418
SHDN 4(1) H				1													418
SINGLE DD TRK H		D01E1		1-01 *							1					8-7/H	419
SINGLE DD TRK H		E04U2		1-02 *												8-7/H	419
SINGLE DD TRK H				1													419
SINGLE DD TRK L		E04K1														1-PIN RUN	420
SLA H		R03F2		1-01 *							1					2-5/H	421
SLA H		R07F2		1-02 *												2-5/H	421
SLA H				1													421
SLAVE SET PLS H		A01S2		1-01 *							1					3-2/H	422
SLAVE SET PLS H		A07S1		1-02 *												3-2/H	422
SLAVE SET PLS H				1													422
SLECT-A		C08P1														1-PIN RUN	423
SLECT-H		C08P1														1-PIN RUN	424

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A/P F/JR NAME	ORDER PIN	REMARKS	RC LENGTH FLAG	EXCEPTIONS	RUN NUMBER
SN2(SH) L	A07D1	1-01 *	6-7/H		425
SN2(SH) L	R03V1	1-02 *	6-7/H		425
SN2(SH) L		1			425
SN71(SH) L	A07U2	1-01 *	4		426
SN71(SH) L	R03S2	1-02 *	4-0/H		426
SN71(SH) L		1			426
SN22(SH) L	R03U2	1-01 *	2-2/H		427
SN22(SH) L	R07U1	1-02 *	2-2/H		427
SN22(SH) L		1			427
SN03(SH) L	A07A2	1-01 *	2-5/H		428
SN03(SH) L	A07A2	1-02 *	2-5/H		428
SN03(SH) L		1			428
SN04(SH) L	A07E2	1-01 *	2-2/H		429
SN04(SH) L	A07E1	1-02 *	2-2/H		429
SN04(SH) L		1			429
SN05(SH) L	A07F1	1-01 *	3-3/H		430
SN05(SH) L	A07H1	1-02 *	3-3/H		430
SN05(SH) L		1			430
SN06(SH) L	R03U1	1-01 *	2-7/H		431
SN06(SH) L	R07T2	1-02 *	2-7/H		431
SN06(SH) L		1			431
SN07(SH) L	A07E1	1-01 *	3-2/H		432
SN07(SH) L	A07V1	1-02 *	3-2/H		432
SN07(SH) L		1			432
SN09(SH) L	A07E2	1-01 *	2-2/H		433
SN09(SH) L	A07F1	1-02 *	2-2/H		433
SN09(SH) L		1			433
SN09(SH) L	R03S1	1-01 *	3-6/H		434
SN09(SH) L	R07D1	1-02 *	3-6/H		434
SN09(SH) L		1			434
SN10 H	R03P2	1-01 *	2-1/H		435
SN10 H	R07S1	1-02 *	2-1/H		435
SN10 H		1			435
SN11(SH) L	A03H1	1-01 *	3-4/H		436
SN11(SH) L	R07C1	1-02 *	3-4/H		436
SN11(SH) L		1			436
SN12 H	A03H2	1-01 *	2-2/H		437
SN12 H	A07H1	1-02 *	2-2/H		437
SN12 H		1			437
SN13(SH) L	A07U1	1-01 *	3-1/H		438
SN13(SH) L	R03P1	1-02 *	3-1/H		438
SN13(SH) L		1			438

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A/P F/JR NAME	ORDER PIN	REMARKS	RC LENGTH FLAG	EXCEPTIONS	RUN NUMBER
SN13 H	R03P2	1-01 *	2-3/H		439
SN13 H	R07H1	1-02 *	2-3/H		439
SN13 H		1			439
SN15(SH) L	A03K1	1-01 *	3-0/H		440
SN15(SH) L	R07F1	1-02 *	3-0/H		440
SN15(SH) L		1			440
SPACE H	R07T2	1-01 *	1-4/H		441
SPACE H	R09T2	1-02 *	1-4/H		441
SPACE H		1			441
SPACE L	R07T2	1-01 *	5-7/H		442
SPACE L	R04F2	1-02 *	4-1/H		442
SPACE L	R05P1	1-03 *	10-0/H		442
SPACE L		1			442
SPR H	R03F1	1-01 *	2-0/H		443
SPR H	R07E2	1-02 *	2-0/H		443
SPR H		1			443
SS2(1) H	R01H2	1-01 *	13-5/H		444
SS2(1) H	R06K2	1-02 *	13-5/H		444
SS2(1) H		1			444
SS1(SH) L	R01P2	1-01 *	5-1/H		445
SS1(SH) L	R06V1	1-02 *	5-1/H		445
SS1(SH) L		1			445
SS2(SH) L	R01H2	1-01 *	7-7/H		446
SS2(SH) L	R06K2	1-02 *	7-7/H		446
SS2(SH) L		1			446
SSC L	R07S1	1-01 *	1-4/H		447
SSC L	R09S1	1-02 *	1-4/H		447
SSC L		1			447
ST CLK	R04R2	1-01 *	2		448
ST CLK	R07R2	1-02 *	2-0/H		448
ST CLK		1			448
STOP(A) H	R07P1	1-01 *	1-4/H		449
STOP(A) H	R09P1	1-02 *	1-4/H		449
STOP(A) H		1			449
STOP(SH) L	A01V2	1-01 *	3-4/H		450
STOP(SH) L	R07V2	1-02 *	3-4/H		450
STOP(SH) L		1			450
SYNC CLK 4 L	R02P1	1-01 *	9-7/H		451
SYNC CLK 4 L	R04U1	1-02 *	9-7/H		451
SYNC CLK 4 L		1			451
TAPE WRT CLK H	R02E2	1-01 *	4		452
TAPE WRT CLK H	R07D2	1-02 *	4-0/H		452
TAPE WRT CLK H		1			452

93

hb

TM22.C		ALP288.V34(62)-1 31-JUL-75				29-JUL-76		11:19 PAGE 35		RUN NUMBER
A/P	PIN NAME	ORDER PIN	DAY ORDER	U	DRAW OPT	RV PG Y	X Z	REMARKS	NC LENGTH EXCEPTIONS FLAG	
	TCM(2) H	CM6H2	1-01 *						1-7/H	453
	TCM(2) H	CM9E1	1-02 *						1-7/H	453
	TCM(2) H		1							453
	TM 1 (0) H	AM7P2	1-01 *						3-0/H	454
	TM 1 (0) H	AM1H1	1-02 *						3-6/H	454
	TM 1 (0) H		1							454
	TMRK H	CM7D1	1-01 *						1-4/H	455
	TMRK H	CM9D1	1-02 *						1-4/H	455
	TMRK H		1							455
	TMPK L	FM4C1	1-01 *						1-5/H	456
	TMRK L	FM5L1	1-02 *						1-1/H	456
	TMRK L	FM7L1	1-03 *						3-1/H	456
	TMPK L		1							456
	TMAIP H	CM4F1	1-01 *						2-1/H	457
	TMAIP H	CM7D1	1-02 *						2-1/H	457
	TMAIP H		1							457
	TMA(1) L	FM6L2	1-01 *						2-1/H	458
	TMA(1) L	FM9A1	1-02 *						2-1/H	458
	TMA(1) L		1							458
	TUP H	AM2S2	1-01 *						0-6/H	459
	TUR H	CM9H1	1-02 *						0-6/H	459
	TUR H		1							459
	US 2	FM9J2							1-PIN PUB	460
	US 1	FM9L1							1-PIN PUB	461
	US 2	FM9E1							1-PIN PUB	462
	W CLK H	FM4H1	1-01 *						2-4/H	463
	W CLK H	FM8P1	1-02 *						2-4/H	463
	W CLK H		1							463
	WB CLK H	FM5A1	1-01 *						1-6/H	464
	WB CLK H	FM7H1	1-02 *						1-6/H	464
	WB CLK H		1							464
	WD 3(SH) L	AM7D2	1-01 *						6-2/H	465
	WD 3(SH) L	FM1V2	1-02 *						6-2/H	465
	WD 3(SH) L		1							465
	WD 1(SH) L	FM1U2	1-01 *						4-1/H	466
	WD 1(SH) L	FM7L2	1-02 *						4-1/H	466
	WD 1(SH) L		1							466
	WD 2(SH) L	FM1S2	1-01 *						3-7/H	467
	WD 2(SH) L	FM7L1	1-02 *						3-7/H	467
	WD 2(SH) L		1							467

TM22.C		ALP288.V34(62)-1 31-JUL-75				29-JUL-76		11:19 PAGE 36		RUN NUMBER
A/P	PIN NAME	ORDER PIN	DAY ORDER	U	DRAW OPT	RV PG Y	X Z	REMARKS	NC LENGTH EXCEPTIONS FLAG	
	WD 3(SH) L	AM1P2	1-01 *						3-5/H	468
	WD 3(SH) L	AM7K1	1-02 *						3-5/H	468
	WD 3(SH) L		1							468
	WD 4(SH) L	FM1K2	1-01 *						4-1/H	469
	WD 4(SH) L	FM7A1	1-02 *						4-1/H	469
	WD 4(SH) L		1							469
	WD 5(SH) L	AM1M2	1-01 *						4-1/H	470
	WD 5(SH) L	AM7T2	1-02 *						4-1/H	470
	WD 5(SH) L		1							470
	WD 6(SH) L	AM1P2	1-01 *						3-5/H	471
	WD 6(SH) L	AM7J2	1-02 *						3-5/H	471
	WD 6(SH) L		1							471
	WD 7(SH) L	AM1E2	1-01 *						3-5/H	472
	WD 7(SH) L	AM7J1	1-02 *						3-5/H	472
	WD 7(SH) L		1							472
	WD HFO 0(1) H	FM5H1	1-01 *						1-6/H	473
	WD HFO 0(1) H	FM7J1	1-02 *						1-3/H	473
	WD HFO 0(1) H	FM6H2	1-03 *						1-5/H	473
	WD HFO 0(1) H	FM8T2	1-04 *						4-6/H	473
	WD HFO 0(1) H		1							473
	WD HFO 1(1) H	FM5J1	1-01 *						1-3/H	474
	WD HFO 1(1) H	FM6P2	1-02 *						0-4/H	474
	WD HFO 1(1) H	FM7P1	1-03 *						1-3/H	474
	WD HFO 1(1) H	FM8P2	1-04 *						3-2/H	474
	WD HFO 1(1) H		1							474
	WD HFO 2(1) H	FM5F1	1-01 *						1-3/H	475
	WD HFO 2(1) H	FM7P1	1-02 *						1-3/H	475
	WD HFO 2(1) H	FM6N2	1-03 *						1-3/H	475
	WD HFO 2(1) H	FM8P2	1-04 *						4-1/H	475
	WD HFO 2(1) H		1							475
	WD HFO 3(1) H	FM5L1	1-01 *						1-1/H	476
	WD HFO 3(1) H	FM6P2	1-02 *						1-5/H	476
	WD HFO 3(1) H	FM7V2	1-03 *						1-3/H	476
	WD HFO 3(1) H	FM8N2	1-04 *						4-1/H	476
	WD HFO 3(1) H		1							476
	WD HFO 4(1) H	FM6P2	1-01 *						0-5/H	477
	WD HFO 4(1) H	FM7K1	1-02 *						1-3/H	477
	WD HFO 4(1) H	FM8J2	1-03 *						2-0/H	477
	WD HFO 4(1) H		1							477
	WD HFO 5(1) H	FM5H1	1-01 *						1-3/H	478
	WD HFO 5(1) H	FM6P2	1-02 *						1-2/H	478
	WD HFO 5(1) H	FM7L1	1-03 *						1-2/H	478
	WD HFO 5(1) H	FM8H2	1-04 *						3-7/H	478
	WD HFO 5(1) H		1							478

TRAC	RUN NAME	A/P	FIN	ORDER	PIN	NAME	ORDER	DATE	TIME	REMARKS	NO	LENGTH	EXCEPTIONS	FLAG	PAGE	RUN	NUMBER
490	MD WAO 7(1) H							31-JUL-75	1						1	490	
490	MD WAO 7(1) H							31-JUL-75	2						1	490	
491	MD WAO P H							31-JUL-75	1						1	491	
491	MD WAO P H							31-JUL-75	2						1	491	
491	MD WAO P H							31-JUL-75	1						1	491	
491	MD WAO P H							31-JUL-75	2						1	491	
492	MD WAO 7(1) H							31-JUL-75	1						1	492	
492	MD WAO 7(1) H							31-JUL-75	2						1	492	
493	MDR(1) H							31-JUL-75	1						1	493	
493	MDR(1) H							31-JUL-75	2						1	493	
494	MDR(1) H							31-JUL-75	1						1	494	
494	MDR(1) H							31-JUL-75	2						1	494	
495	WRITE END L							31-JUL-75	1						1	495	
495	WRITE END L							31-JUL-75	2						1	495	
496	WRITE H							31-JUL-75	1						1	496	
496	WRITE H							31-JUL-75	2						1	496	
497	WRITE IDA I							31-JUL-75	1						1	497	
497	WRITE IDA I							31-JUL-75	2						1	497	
498	WRITE L							31-JUL-75	1						1	498	
498	WRITE L							31-JUL-75	2						1	498	
499	WRITE H							31-JUL-75	1						1	499	
499	WRITE H							31-JUL-75	2						1	499	
500	MRP 4 L							31-JUL-75	1						1	500	
500	MRP 4 L							31-JUL-75	2						1	500	
501	MRP 1 L							31-JUL-75	1						1	501	
501	MRP 1 L							31-JUL-75	2						1	501	

TRAC	RUN NAME	A/P	FIN	ORDER	PIN	NAME	ORDER	DATE	TIME	REMARKS	NO	LENGTH	EXCEPTIONS	FLAG	PAGE	RUN	NUMBER
479	MD WAO 6(1) H							31-JUL-75	1						1	479	
479	MD WAO 6(1) H							31-JUL-75	2						1	479	
479	MD WAO 5(1) H							31-JUL-75	1						1	479	
479	MD WAO 5(1) H							31-JUL-75	2						1	479	
480	MD WAO 7(1) H							31-JUL-75	1						1	480	
480	MD WAO 7(1) H							31-JUL-75	2						1	480	
480	MD WAO 7(1) H							31-JUL-75	1						1	480	
480	MD WAO 7(1) H							31-JUL-75	2						1	480	
481	MD P(SH) L							31-JUL-75	1						1	481	
481	MD P(SH) L							31-JUL-75	2						1	481	
482	MD WAO 6(1) H							31-JUL-75	1						1	482	
482	MD WAO 6(1) H							31-JUL-75	2						1	482	
483	MD WAO 1(1) H							31-JUL-75	1						1	483	
483	MD WAO 1(1) H							31-JUL-75	2						1	483	
484	MD WAO 2(1) H							31-JUL-75	1						1	484	
484	MD WAO 2(1) H							31-JUL-75	2						1	484	
485	MD WAO 3(1) H							31-JUL-75	1						1	485	
485	MD WAO 3(1) H							31-JUL-75	2						1	485	
486	MD WAO 4(1) H							31-JUL-75	1						1	486	
486	MD WAO 4(1) H							31-JUL-75	2						1	486	
487	MD WAO 5 L							31-JUL-75	1						1	487	
487	MD WAO 5 L							31-JUL-75	2						1	487	
488	MD WAO 5(1) H							31-JUL-75	1						1	488	
488	MD WAO 5(1) H							31-JUL-75	2						1	488	
489	MD WAO 6(1) H							31-JUL-75	1						1	489	
489	MD WAO 6(1) H							31-JUL-75	2						1	489	

ITEM NO	ITEM NAME	A/P	PIN MAKE	ORDER PIN	31-Jul-75 RAY - ORDER	Q	DRAW	RV	RG	Y	X	Z	29-Jul-76 REMARKS	11:19 NO LENGTH EXCEPTIONS FLAG	PAGE 37	RUN NUMBER
WPP 2 I			FV6U2		1-01 *							1		2-3/8		502
WPP 2 I			FV7C1		1-02 *											502
WPP 2 I					1									2-3/8		502
WPP 3 I			FV4S1		1-01 *							1		12-5/8		503
WPP 3 I			FV6V2		1-02 *							2		1		503
WPP 3 I			FV7V2		1-03 *									13-5/8		503
WPP 3 I					1											503
WPI CLK P			FV7A1		1-01 *							1		4-1/8		504
WPI CLK P			C05D1		1-02 *											504
WPI CLK P					1									4-1/8		504
WPI STR H			D07V1		1-01 *							1		1		505
WPI STR H			D08V1		1-02 *											505
WPI STR H					1									1-0/8		505
X AD P H			D05C1		1-01 *							2		2-2/8		506
X AD P H			D07R1		1-02 *							1		5-1/8		506
X AD P H			F06F1		1-03 *											506
X AD P H					1									7-1/8		506
X AD P H			D05D2		1-01 *							1		1-7/8		507
X AD P H			D07P2		1-02 *											507
X AD P H					1									1-7/8		507

Spooler runtime 19 Seconds, 101 KCS, 364 disk reads, 4 disk writes, 39 dates

\*\*\*END\*\*\* User X-LIST SUPP [202,202] Job TMO2 Seq. 387 Date 24-Nov-76 15:58:30 Monitor DEC-10 Cadnet/1 6.02AZ \*\*\*END\*\*\*

\*\*\*END\*\*\* User X-LIST SUPP [202,202] Job TMO2 Seq. 387 Date 24-Nov-76 15:58:30 Monitor DEC-10 Cadnet/1 6.02AZ \*\*\*END\*\*\*

\*\*\*END\*\*\* User X-LIST SUPP [202,202] Job TMO2 Seq. 387 Date 24-Nov-76 15:58:30 Monitor DEC-10 Cadnet/1 6.02AZ \*\*\*END\*\*\*

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\*\*\*END\*\*\* User X-LIST SUPP [202,202] Job TMO2 Seq. 387 Date 24-Nov-76 15:58:30 Monitor DEC-10 Cadnet/1 6.02AZ \*\*\*END\*\*\*

\*\*\*END\*\*\* User X-LIST SUPP [202,202] Job TMO2 Seq. 387 Date 24-Nov-76 15:58:30 Monitor DEC-10 Cadnet/1 6.02AZ \*\*\*END\*\*\*

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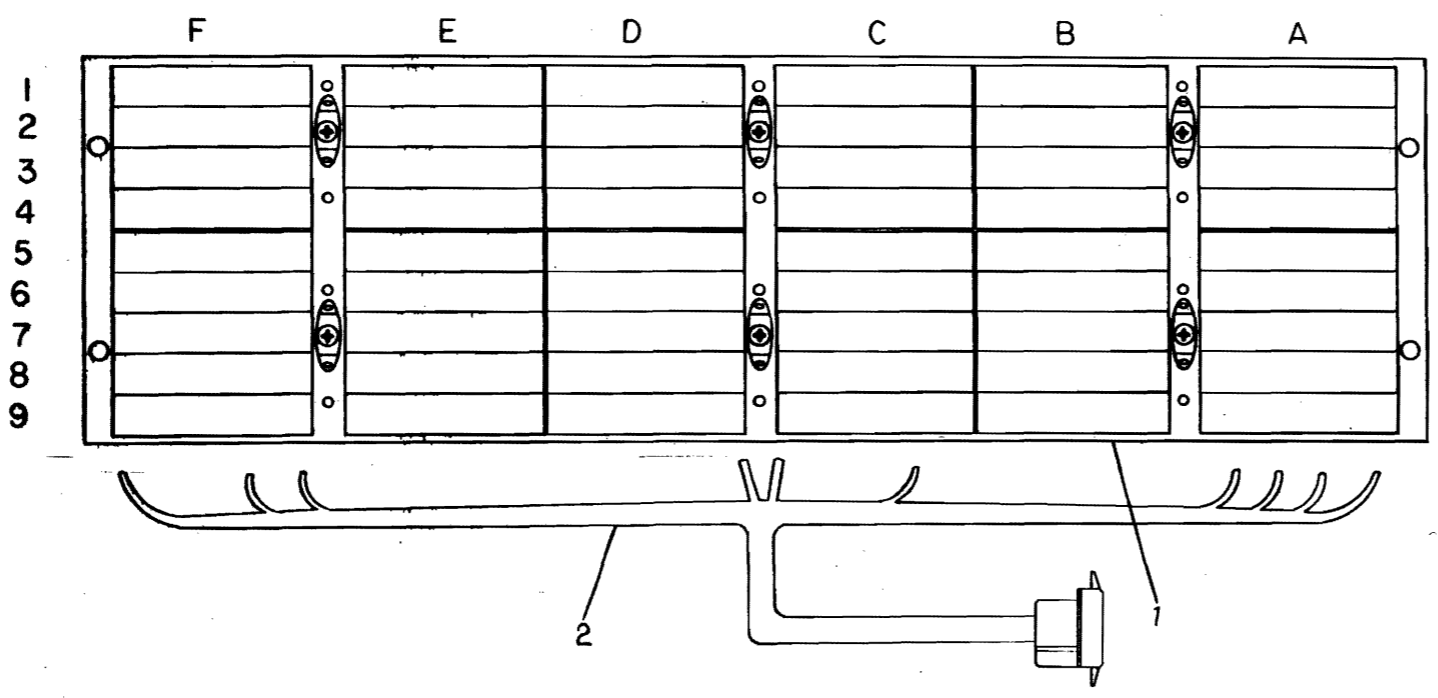
0-0-982600Z VI 2

EXTERNAL COMPONENT TABLE				
ITEM NO.	DESCRIPTION	FROM	TO	REMARKS
3	1.5K. 1/4W 5%. 30 AWG	B04J1	C04A2	PULL-UP FOR DC LO
4	PATCHCORD	C06U2	B03D2	DEV 2 L SEE NOTE 2

WIRE TABLE							
ITEM NO	DESCRIPTION		FROM		TO		REMARKS
	COLOR	AWG	CONN	WITH	CONN	WITH	
2	BLK	14	PI-5	PT-9	F01C2	SOLD	GND
	BLK		PI-4	PT-3	F01C2		GND
	RED		PI-1	PT-8	F01A2		+5
	RED		PI-2	PT-2	F01A2		+5
	BLU		PI-7	PT-5	B04B2		-15
	ORN		PI-10	PT-10	F01V1		+15
	RED		PI-3	PT-7	D01A2		+5
	BLK	14	PI-6	PT-6	D01C2		GND
	VEL	22	PI-11	PT-1	R03H1		AC LO
2	V10	22	PI-12	PT-9	R03T1	SOLD	DC LO

NOTES:

- REFER TO PRINT D-IA-7011738-0-0 FOR POINTS (PT) ON HARNESS.
- FOR NRZ ONLY OPERATION LOCATE ITEM #4 BETWEEN B03D2 AND B04R2.
- ADD ITEM 5 (TUBING) TO ALL PINS ADJACENT TO SOLDER CONNECTIONS.



A/R	TUBING	9107256-02	5
1	PATCHCORD	915-6	4
1	1.5K. 1/4W, 5%, 30AWG	7407751	3
1	HARNESS, LOGIC (TM02)	D-IA-7011738-0-0	2
1	WIRED ASSY (TM02)	D-AD-7009735-0-0	1

FIRST USED ON OPTION/MODEL		PARTS LIST													
TU16															
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		<table border="1"> <tr> <td>DATE</td> <td>2/10/74</td> </tr> <tr> <td>DATE</td> <td></td> </tr> <tr> <td>DATE</td> <td></td> </tr> <tr> <td>DATE</td> <td></td> </tr> <tr> <td>DATE</td> <td></td> </tr> <tr> <td>DATE</td> <td></td> </tr> </table>		DATE	2/10/74	DATE		DATE		DATE		DATE		DATE	
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		SHEET OF													

REV	DESCRIPTION	DATE
1	7009785-00001 A	2/10/74
2	7009785-00002 B	2/10/74
3	7009785-00003 C	2/10/74
4	7009785-00004 D	2/10/74
5	7009785-00005 E	2/10/74
6	7009785-00006 F	2/10/74
7	7009785-00007 G	2/10/74
8	7009785-00008 H	2/10/74

D-IA-7009785-0-0

