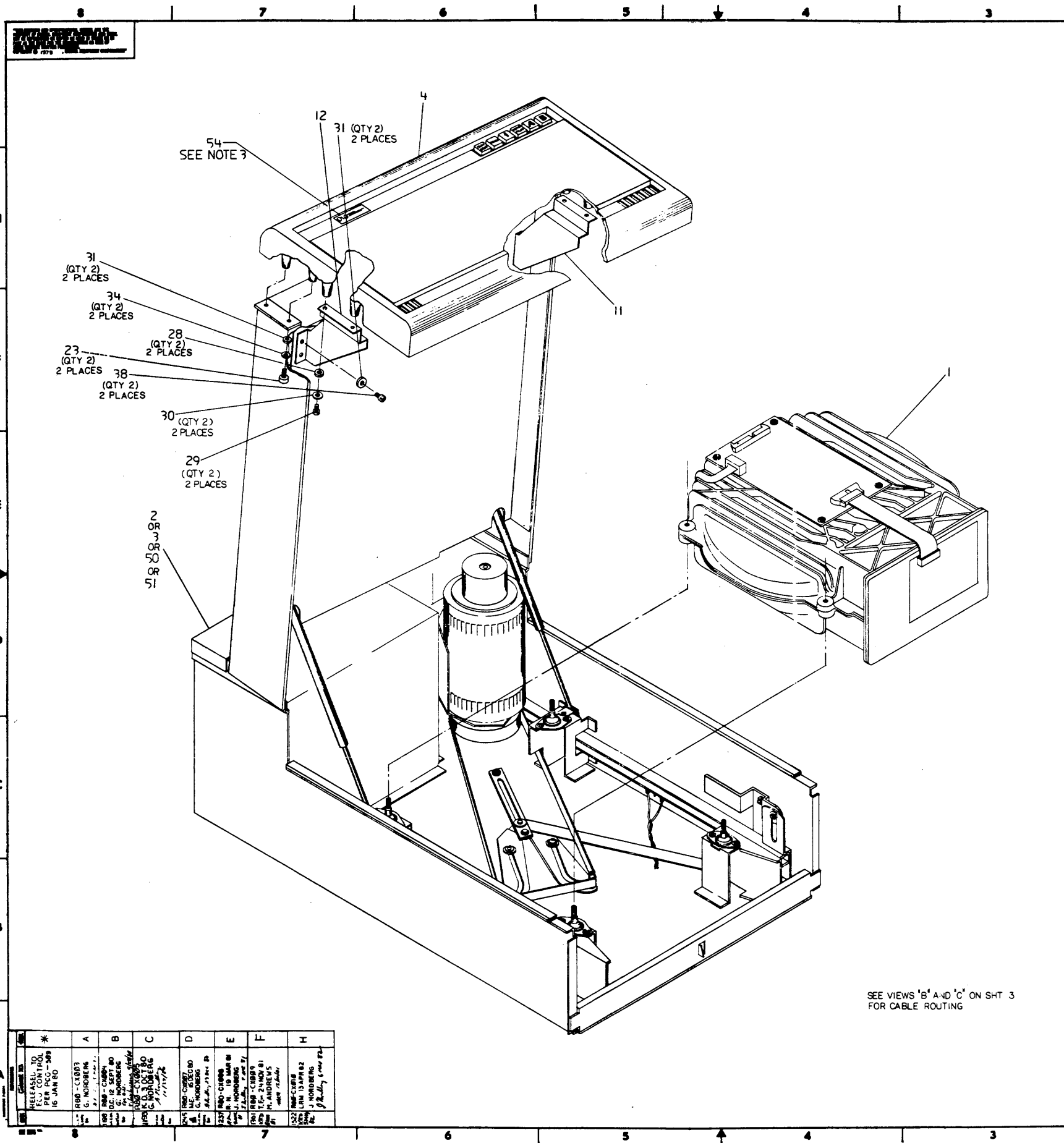


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REV. Δ | R80-0-1 | SIZE CODE | B

DWG. NO.	DESCRIPTION
E-UA-5413596-0-0	READ/WRITE 1
K-PL-5413596-0-DBP	READ/WRITE 1
D-CS-5413596-0-1	READ/WRITE 1
D-BD-5413596-0-2	READ/WRITE 1
D-UA-5413643-0-0	HDA PCB 1
K-PL-5413643-0-DBP	HDA PCB 1
D-CS-5413643-0-1	HDA PCB 1
D-AD-7016975-0-0	PERSONALITY BD AND STIFF ASSEMBLY
K-PL-7016975-0-DBP	PERSONALITY BD AND STIFF ASSEMBLY
D-UA-5414010-0-0	RM80 PERSONALITY CARD
K-PL-5414010-0-DBP	RM80 PERSONALITY CARD
D-CS-5414010-0-1	RM80 PERSONALITY CARD
D-BD-5414010-0-2	RM80 PERSONALITY CARD

TITLE	DISK DRIVE ASSEMBLY	SHEET 2 OF 2	SIZE CODE	B TC	NUMBER	R80-0-1	REV	A
-------	---------------------	--------------	-----------	------	--------	---------	-----	---



LEGEND	
PART NO.	VARIATION
R80-AA	60 HZ, 120V
R80-AD	50 HZ, 240V
R80-AE	60 HZ, FCC
R80-AJ	50 HZ, FCC

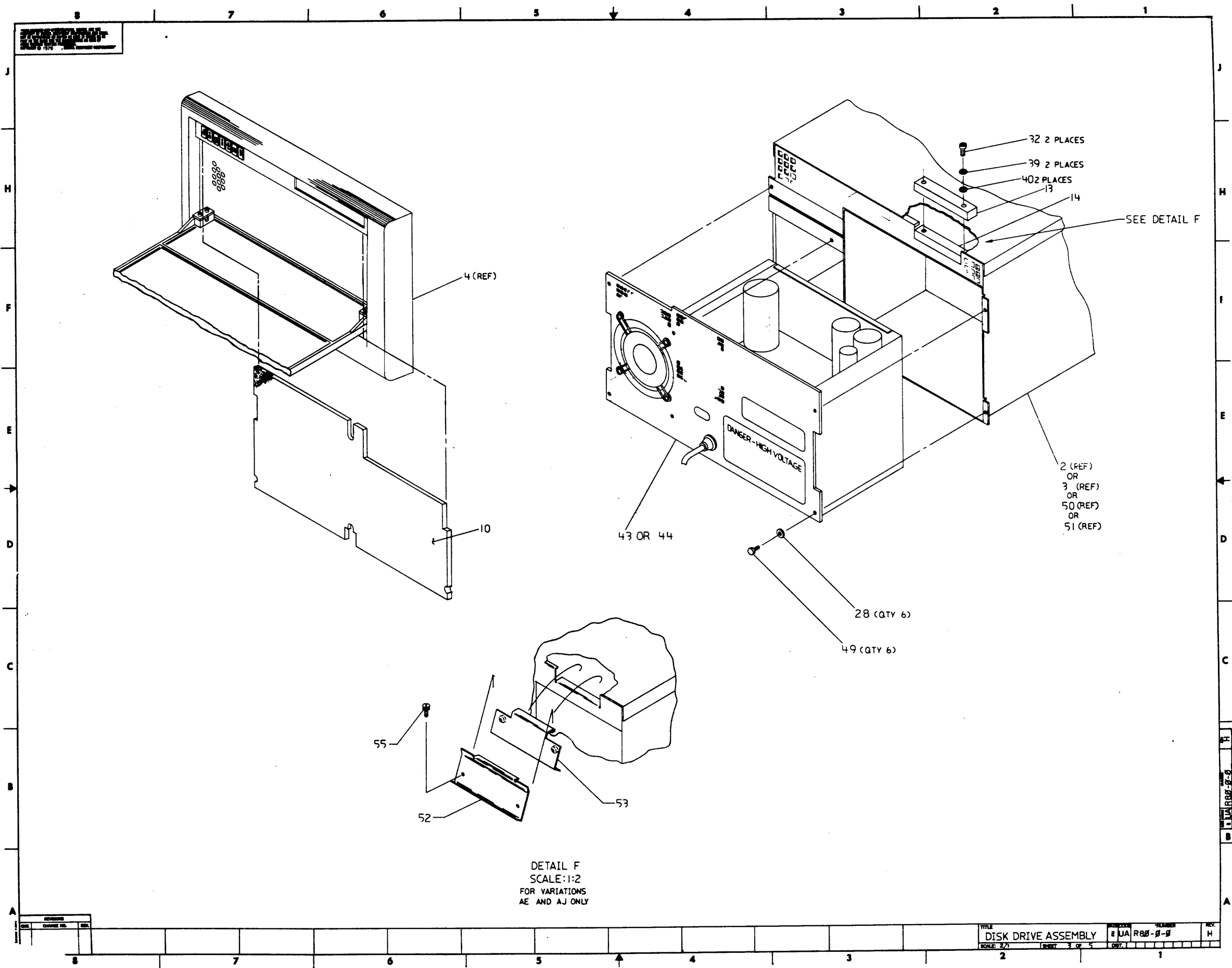
- NOTES:
- ADJUST BELT TO 23±2 LBS TENSION AND INSTALL SHIPPING BRACKET. TIGHTEN BOLT BETWEEN MOTOR MOUNT AND SHIPPING BRACKET SNUG AGAINST SHIPPING BRACKET THEN LOCK IN PLACE BY TIGHTENING NUT ON FRONT SIDE OF SHIPPING BRACKET.
 - DELETED AT REV E
 - APPLICATION FOR BEST ADHESION:
 - REMOVE BACK PAPER PER VENDOR.
 - CLEAN SURFACE TAKING ADHESIVE BACKING WITH SOLVENT, I.E. ISOPROPYL ALCOHOL.
 - RUB ALL LETTERING TO CLEAN AREA BEFORE REMOVING FRONT PAPER FROM DECAL USING A DULL ROUNDED INSTRUMENT. WHEN REMOVING FRONT PAPER, FOLLOW INSTRUCTIONS ON DECAL PER VENDOR.

REV	DATE	DESCRIPTION
1	16 JAN 80	RELEASE TO CONTROL BY 389
2	16 JAN 80	RELEASE TO CONTROL BY 389
3	16 JAN 80	RELEASE TO CONTROL BY 389
4	16 JAN 80	RELEASE TO CONTROL BY 389
5	16 JAN 80	RELEASE TO CONTROL BY 389
6	16 JAN 80	RELEASE TO CONTROL BY 389
7	16 JAN 80	RELEASE TO CONTROL BY 389
8	16 JAN 80	RELEASE TO CONTROL BY 389

SEE VIEWS 'B' AND 'C' ON SHT 3 FOR CABLE ROUTING

CAUTION: OFF-SHEET PARTS LIST EXISTS. SEE K-PL-R80-O-DBP (20500)

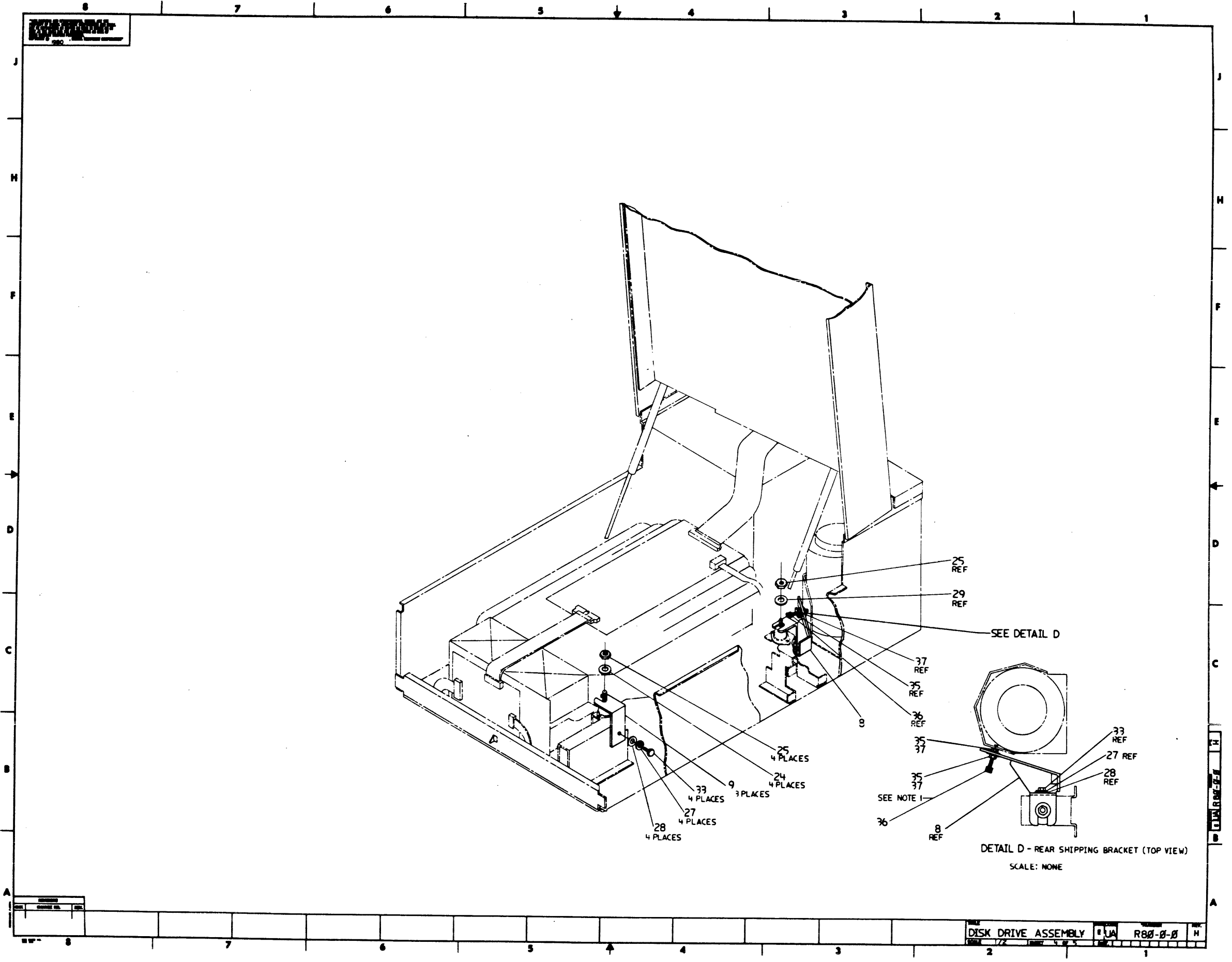
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES																			
FRONT VIEW	TOP VIEW																		
<table border="1"> <tr> <td>QUANTITY</td> <td>1</td> </tr> <tr> <td>VARIATION</td> <td></td> </tr> </table>	QUANTITY	1	VARIATION		<table border="1"> <tr> <td>DESCRIPTION</td> <td>DISK DRIVE ASSEMBLY</td> </tr> <tr> <td>QTY</td> <td>1</td> </tr> <tr> <td>REV</td> <td>E</td> </tr> <tr> <td>DATE</td> <td>16 JAN 80</td> </tr> <tr> <td>BY</td> <td>UA</td> </tr> <tr> <td>CHECKED</td> <td></td> </tr> <tr> <td>APPROVED</td> <td></td> </tr> </table>	DESCRIPTION	DISK DRIVE ASSEMBLY	QTY	1	REV	E	DATE	16 JAN 80	BY	UA	CHECKED		APPROVED	
QUANTITY	1																		
VARIATION																			
DESCRIPTION	DISK DRIVE ASSEMBLY																		
QTY	1																		
REV	E																		
DATE	16 JAN 80																		
BY	UA																		
CHECKED																			
APPROVED																			

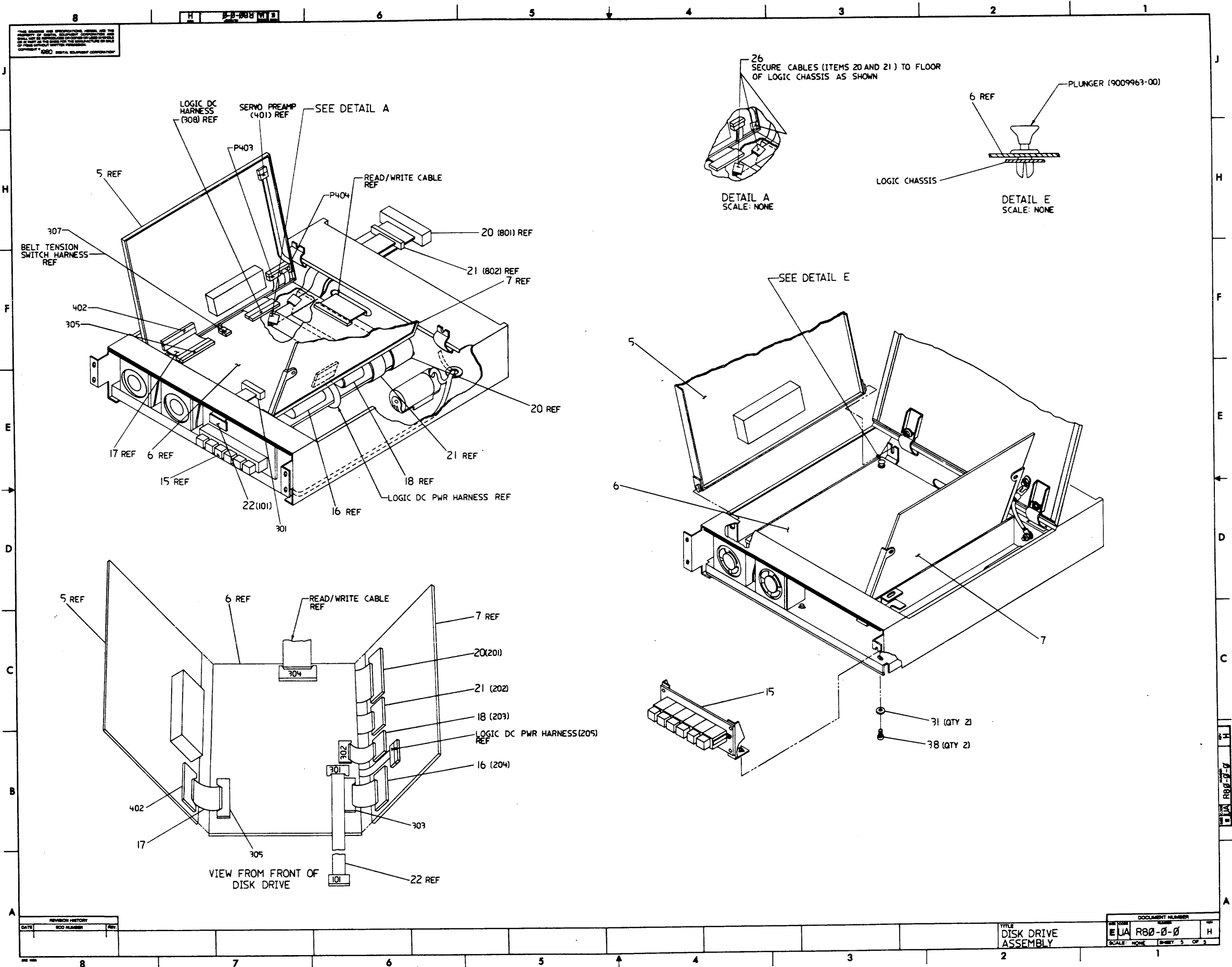


REVISIONS

REV.	DESCRIPTION	DATE

TITLE	DISK DRIVE ASSEMBLY	PROJECT	8 UA R88-8-8	NUMBER		REV.	H
SCALE	3/2	SHEET	3 OF 5	DATE			





REVISION HISTORY		
DATE	ISSUE NUMBER	REV.

DOCUMENT NUMBER		
THE FORM	NUMBER	REV.
EUA	R80-0-0	H
SCALE: NONE SHEET 3 OF 3		

TITLE
 DISK DRIVE
 ASSEMBLY

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION			
					AA	AD	AE	AJ
1	1	C-AD-7016795-0-0	7016795-00	HDA-R/W MOD ASSY	1	1	1	1
2	2	D-AD-7018446-0-0	7018446-00	BASIC DRIVE ASSEMBLY (60)	1	-	-	-
3	3	D-AD-7018446-0-0	7018446-01	BASIC DISK DRIVE ASSEMBLY (50 H)	-	1	-	-
4	4	E-AD-7017340-0-0	7017340-00	BEZEL ASSEMBLY	1	1	1	.1
5	5	D-AD-7016976-0-0	7016976-00	SERVO BOARD AND STIFFENER ASSY.	1	1	1	1
6	6	D-UA-5414012-0-0	5414012-00	MICRO PROCESSOR	1	1	1	1
7	7	D-AD-7016975-0-0	7016975-00	PERSONALITY BD & STIFFENER ASSY.	1	1	1	1
8	8	C-MD-7423898-0-0	7423898-00	SHIPPING BRACKET	1	1	1	1
9	9	B-MD-7423897-0-0	7423897-00	SHIPPING BRACKET	3	3	3	3
10	10	C-MD-7422816-0-0	7422816-00	FOAM FILTER	1	1	1	1
11	11	D-MD-7422701-0-0	7422701-00	BRACE (L.H.)	1	1	1	1
12	12	D-MD-7422701-0-0	7422701-01	BRACE (R.H.)	1	1	1	1
13	13	C-MD-7421465-0-0	7421465-00	STRAIN RELIEF (TOP)	1	1	-	-
14	14	C-MD-7422445-0-0	7422445-00	STRAIN RELIEF (BOTTOM)	1	1	-	-
15	15	D-AD-7016974-0-0	7016974-00	OPERATOR CONTROL PANEL ASSY.	1	1	1	1
16	16	C-IA-7016737-0-0	7016737-00	DATA 40 CABLE ASSY.	1	1	1	1
17	17	C-IA-7016737-0-0	7016737-01	RBO DATA 40 CABLE ASSY	1	1	1	1
18	18	C-IA-7016738-0-0	7016738-00	DATA 20 CABLE ASSY (DCL)	1	1	1	1
19	19	A-DC-7416197-0-0	7416197-02	DECAL-UL LISTED EDP	1	1	1	1
20	20	C-IA-7016979-0-0	7016979-00	I/O 60 CABLE ASSEMBLY	1	1	1	1
21	21	C-IA-7016978-0-0	7016978-00	I/O 26 CABLE ASSEMBLY	1	1	1	1
22	22	C-IA-7016740-0-0	7016740-00	CONTROL PANEL CABLE ASSY	1	1	1	1
23	23		9006021-01	SCREW,PAN,PHIL 6-32X 5/16 SS	4	4	4	4
24	24		9007983-00	WASHER, FLAT, .750 O.D. X .312 I	4	4	4	4
25	25		9008203-00	NUT,KEP 1/4-20X 7/16AF	4	4	4	4
26	26		9009636-00	CLAMP, CABLE, FOR FLAT CABLE	3	3	3	3
27	27		9007906-00	WASHER,SPLIT .3340D X .200I	4	4	4	4
28	28		9006664-00	WASHER, FLAT, .437 OD X .218 ID	14	14	14	14
29	29		9006036-01	SCREW,PAN,PHIL 8-32X 5/16 SS	4	4	4	4
30	30		9006690-00	WASHER, LOCK, S.S. #8	4	4	4	4

REVISION HISTORY		BASIC PART NO: 00R80		DRN:	M. ENGLE	DATE: 15-MAY-79	D I G I T A L				
ENG!	ECD NUMBER	REV	SECTION A OF A	CHK'D:	R. THELLEN	DATE: 20-AUG-79	TITLE PARTS LIST				
IGN	R80-565	*	SECTION, VARIATION INDEX	DES.ENG.:	G. NORDBERG	DATE: 25-JAN-80	DOCUMENT NUMBER				
IGN	R80-CX003	A	[A] AA,AD,AE,AJ	RESP.ENG.:	W. MONTERO	DATE: 25-JAN-80	SIZE	CODE	NUMBER	REV	
IGN	R80-CX004	B	[B]	MFG.ENG.:	W. BASSETT	DATE: 25-JAN-80	K	PL	R80-0-DBP	H	
IGN	R80-CX007	D	[D]	ASSEMBLY NUMBER:	E-UA-R80-0-0	TOP DOCUMENT NUMBER:	#B-DD-R80-0		FILE NAME:	Z0500H.PLS	EDIT #
JN	R80-CX008	E	[E]							8	
MA	R80-CX009	F	[F]								
JN	R80-CX010	H	[H]								

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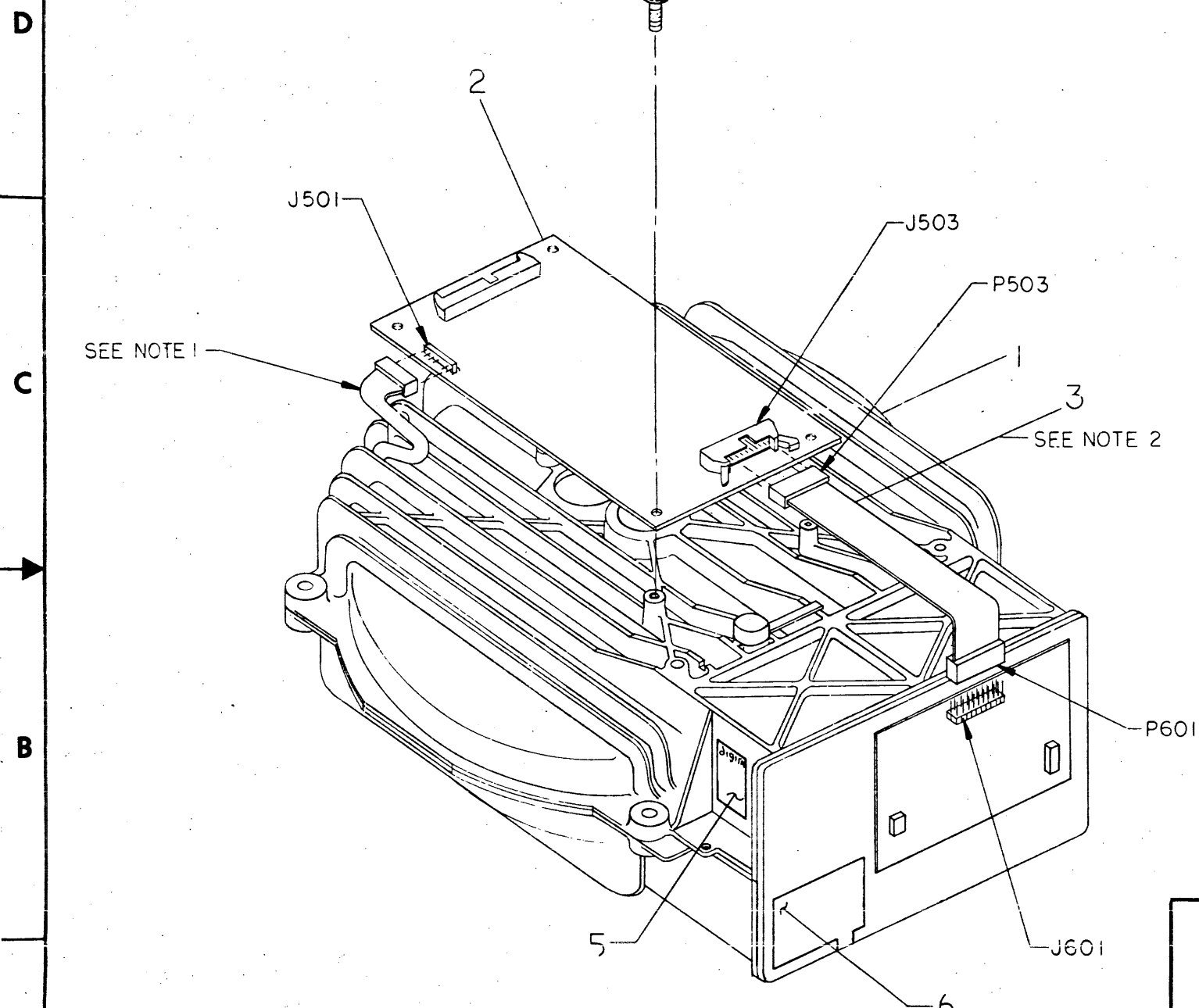
LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION			
				AA	AD	AE	AJ
31	31	9006659-00	WASHER, FLAT, .375 O.D. X .156 I	10	10	10	10
32	32	9006015-01	SCREW,PAN,PHIL 4-40X 3/4 SS	2	2	2	2
33	33	9006231-09	SCREW,HEX 10-32X 1/2	4	4	4	4
34	34	9007801-00	WASHER, LOCK, S.S. #6	4	4	4	4
35	35	9009005-00	NUT,HEX , 10-32 X1/4 AF X 3	2	2	2	2
36	36	9006352-08	SCREW,CAP ,SKT , 10-32X 1-1/2	1	1	1	1
37	37	9006668-00	WASHR,FLAT 5/8 ODX 13/64IDX.032	2	2	2	2
38	38	9009708-00	SCREW,PAN,PHIL,TAP'G 6-32X 5/16	6	6	6	6
39	39	9006688-00	WASHER, LOCK, S.S. #4	2	2	2	2
40	40	9006655-00	WASHER, FLAT, .312 O.D. X .125 I	2	2	2	2
41	41	3613209-00	LABEL,ADH BACK,ELC.DATA	1	1	1	1
42	42	3613211-00	DECAL,CLEAR PREPRINTED CSA 1-1/4	1	-	1	-
43	43	D-UA-H766-0-0 0H766-A	R80 POWER SUPPLY,60HZ: +5V 10A,-	1	-	1	-
44	44	D-UA-H766-0-0 0H766-B	H766-A EXCEPT 120V/240V 50HZ	-	1	-	1
45	45	1213756-09	GROUND STRAP,9"LG	1	1	1	1
46	46	1213756-03	GROUND STRAP,3" LG	1	1	1	1
47	47	9006565-00	NUT,KEP 10-32X 3/8 AF	3	3	3	3
48	48	9007651-00	WASHER, LOCK, EXTERNAL TOOTH #10	3	3	3	3
49	49	9010075-00	SCREW,HEX WASH,TAP'G 8-32X .375L	6	6	6	6
50	50	D-AD-7018446-0-0 7018446-02	DISK DRIVE ASSY 60HZ	-	-	1	-
51	51	D-AD-7018446-0-0 7018446-03	DISK DRIVE ASSY 50HZ	-	-	-	1
52	52	C-MD-7426854-0-0 7426854-01	CLAMP TOP	-	-	1	1
53	53	C-IA-7426853-0-0 7426853-01	CLAMP BOTTOM	-	-	1	1
54	54	3617314-02	LABEL,R80 DISK DRIVE	-	-	1	1
55	55	9009988-00	SCREW, SEMS, SLOTTED HEX HD 1/4-	-	-	2	2
56	56	3700588-00	PKG DISK DRIVE R80	-	-	1	1

57 NOTE: - LEGEND
 58 NOTE: PART NUMBER VARIATION
 59 NOTE: R80-AA 120V/60HZ- NOT FCC COMPLIANT
 60 NOTE: R80-AD 240V/50HZ- NOT FCC COMPLIANT
 61 NOTE: R80-AE 120V/60HZ-FCC COMPLIANT
 62 NOTE: R80-AJ 240V/50HZ- FCC COMPLIANT

! D ! I ! G ! I ! T ! A ! L !	! TITLE	! SECTION A OF A	! SIZE ! CODE !	! DOCUMENT NUMBER	! REV
! ! ! ! ! ! ! !	DISK DRIVE ASSEMBLY	! ! ! ! ! ! ! !	! K ! PL !	R80-0-DBP	! H !

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NOTES:
 1. CABLE FROM TRANSDUCER ASSEMBLY (PART OF ITEM 1 - ON BOTTOM SIDE OF ITEM 1) TO BE ROUTED BETWEEN RIBS SHOWN ON BOTH SIDES OF HEAD/DISK ASSY (ITEM 1) AND PLUGGED INTO CONNECTOR J501 ON READ/WRITE MODULE (ITEM 2).
 2. ATTACH DATA CABLE (ITEM 3) POINT TO POINT BETWEEN J503 ON READ/WRITE MODULE (ITEM 2) AND J601 ON HDA I MODULE (PART OF ITEM 1) ENSURING CABLE DOES NOT TWIST.
 3. TORQUE SCREWS (ITEM 4) TO 20 ± 3 IN.-LBS.



CAUTION: OFF SHEET PARTS LIST EXISTS.
 SEE K-PL-7016795-0-DBP (ZØ833).

REV.	CHG. NO.	DESCRIPTION	DATE	BY	CHK.
*		RELEASED TO ECO CONTROL REV X00 PER PCO # 593. 7 FEB 80			
A		7016795 CX001 T.F. 7 JULY 81 M. ANDREWS M.K. (Signature) 8/1/81			
B		7016795 CX002 M. POLLARD L.R.M. 9 APR 82 M. (Signature) 4/82			

QUANTITY & VARIATION	DESCRIPTION	DWG./PART NO.	ITEM NO.
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
	ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES
			OVER 0 TO 0.2
			OVER 0.2 TO 1.2
			OVER 1.2 TO 4.0
			OVER 4.0 TO 12.0
			OVER 12.0 TO 40.0
			OVER 40.0 TO 80.0
	SURFACE QUALITY IN MICROINCHES		
	MEDIUM	<input type="checkbox"/>	±.004 ±.008 ±.012 ±.016 ±.024 ±.04
	PREFERRED	<input type="checkbox"/>	±.012 ±.016 ±.025 ±.04 ±.063 ±.1
	THIRD ANGLE PROJECTION	DRN. M. (Signature) 2 FEB 79	FIRST USED ON R80 digital
	REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D. E. (Signature) 16 FEB 80	TITLE HDA-R/W MODULE ASSEMBLY
	DO NOT SCALE DWG	ENG. J. (Signature) 4 FEB 80	PROJECT HDA-R/W
		PROJ. ENG. (Signature) 19 FEB 80	
		PROD. (Signature) 19 FEB 80	
	MATERIAL SEE PARTS LIST	E-UA-R80-0-0	SIZE CODE NUMBER REV. C AD 7016795-0-0 B
	FINISH	SCALE NONE	
		SHEET 1 OF 1	DIST.

SIZE CODE NUMBER REV. C AD 7016795-0-0 B

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION
1	1	E-AD-7016225-0-0	7016225-00	HEAD/DISK ASSEMBLY	1
2	2	D-UA-5413596-0-0	5413596-00	READ/WRITE	1
3	3	C-IA-7016738-0-0	7016738-01	R80 DATA 20 CABLE ASSY	1
4	4		9010075-00	SCREW,HEX WASH,TAP'G 8-32X .375L	4
5	5		3618566-01	LABEL,DATA	1
6	6		3618565-01	LABEL,ATTENTION	1

REVISION HISTORY			BASIC PART NO: 7016795			
ENG	ECO NUMBER	REV	SECTION A OF A	DRN: M. KONSHAK	DATE: 07-SEP-79	D I G I T A L
---	INITIAL	*	SECTION. VARIATION INDEX	CHK'D: R. E. THELLEN	DATE: 13-FEB-80	TITLE PARTS LIST
MA	7016795-CX001	A	[A] 00			HDA-R/W MODULE ASSEMBLY
MP	7016795-CX002	B	[B]	DES.ENG.: J. READ	DATE: 13-FEB-80	
			[C]			DOCUMENT NUMBER
			[D]	RESP.ENG.: P. SVENDSEN	DATE: 13-FEB-80	
			[E]			SIZE CODE NUMBER REV
			[F]	MFG.ENG.: P. SHINKEVICH	DATE: 13-FEB-80	K PL 7016795-0-DBP B
				ASSEMBLY NUMBER: C-AD-7016795-0-0	TOP DOCUMENT NUMBER: B-DD-R80-0	FILE NAME: Z0833B.PLS
						EDIT # 13

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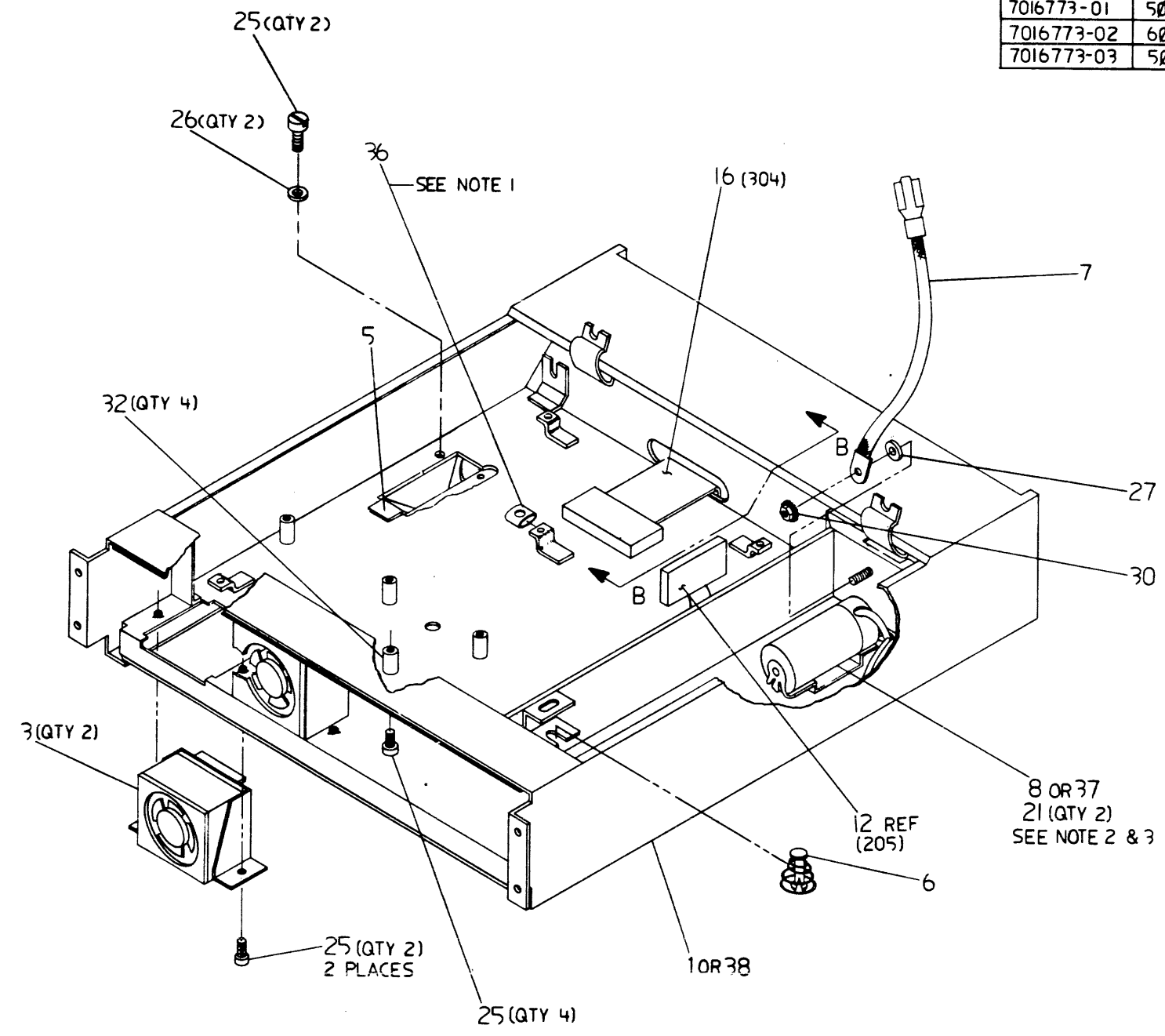
DAD 7016773-0-0

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LEGEND	
PART NO.	VARIATION
7016773-00	60 HZ 120 V
7016773-01	50 HZ 240 V
7016773-02	60 HZ FCC
7016773-03	50 HZ FCC

NOTES:

- ITEM 36 (INSULATOR) TO BE SHRINK-FITTED INTO PLACE AS SHOWN (5 PLACES)
- 43-53 μfd START CAPACITOR REQUIRED IN DRIVES EQUIPPED WITH 50HZ MOTOR. PART NO. I216578-01.
- 53-64 μfd START CAPACITOR REQUIRED IN DRIVES EQUIPPED WITH 50HZ MOTOR PART NO. I216578-02.



CAUTION: OFF-SHEET PARTS LIST EXISTS. SEE K-PL-7016773-0-DBP (Z0495).

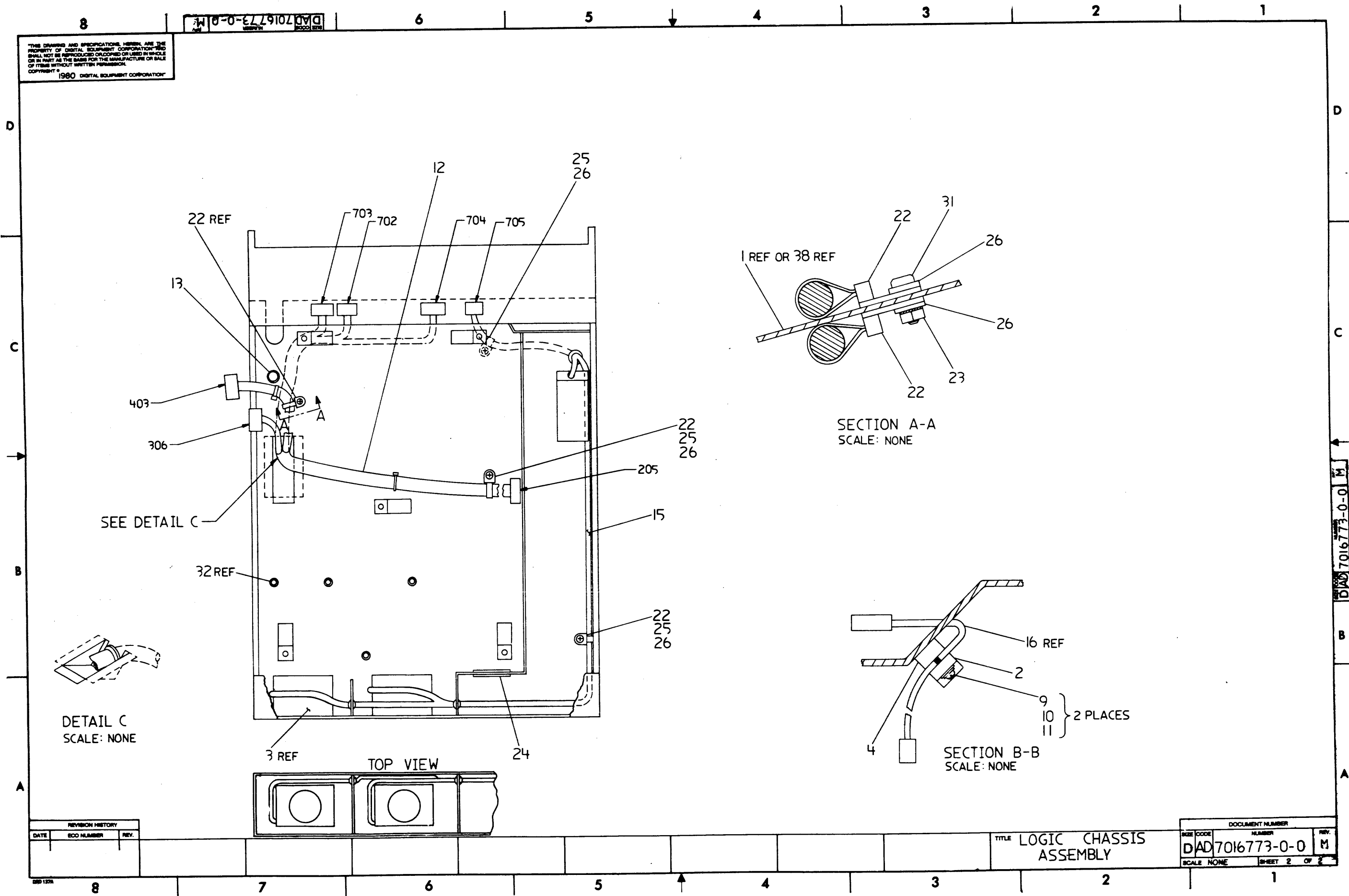
REV.	DATE	DESCRIPTION	BY	CHKD	DATE
1	189	REDRAWN AND REVISED PER ECO R89-CX604	G. NORDBERG		20 SEPT 80
2	245	R89-CX607 ME. 16 DEC 80	G. NORDBERG		
3	237	R80-CX608 R.N. 24 MAR 81	J. NORDBERG		
4	301	7018446 CX601 DB. 21 MAY 81	J. NORDBERG		
5	264	708773 CX002 T.F. 22 JUNE 81	J. NORDBERG		
6	355	7016773-CX003 T.F. 15 SEPT 81	J. NORDBERG		
7	1921	7016773-CX604 K.D. 8 OCT 81	J. NORDBERG		
8	1296	7016773-CX005 T.F. 27 OCT 81	J. NORDBERG		
9	1222	R88-CX619 LRM 14 APR 82	J. NORDBERG		
10	1541	7018446-CX602 R.E.L. 14 MAY 82	J. NORDBERG		

DESCRIPTION	DRAWING NO.	PART NO.	ITEM NO.					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)								
INCHES TOLERANCES X = ± .1 XX = ± .02 XXX = ± .005	ANGLES ± 0° 30'	APPLICABLE DIMENSION RANGE (CHECK ONE)	DIMENSION RANGE IN INCHES					
			OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
QUANTITY & VARIATION			± .004	± .008	± .012	± .016	± .024	
THIRD ANGLE PROJECTION	DATE	TITLE						
DO NOT SCALE DRAWING	8 MAR 79	M. ENGLE		digital				
REMOVE BURRS AND BREAK SHARP CORNERS	21 SEP 79	G. NORDBERG		LOGIC CHASSIS ASSEMBLY				
MATERIAL	20 SEP 79	G. NORDBERG		DOCUMENT NUMBER				
SEE PARTS LIST	20 SEP 79	B. MONTERO		DAD 7016773-0-0				
FINISH	25 JAN 80	W. BASSETT		REV. M				
		D-AD-7016773-0-0		SCALE NOTE				

DAD 7016773-0-0

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DAD 7016773-0-0 M



DETAIL C
SCALE: NONE

SECTION A-A
SCALE: NONE

SECTION B-B
SCALE: NONE

REVISION HISTORY		
DATE	ECC NUMBER	REV.

TITLE LOGIC CHASSIS ASSEMBLY

DOCUMENT NUMBER		
SIZE	CODE	NUMBER
		DAD 7016773-0-0
		M
SCALE NONE	SHEET 2 OF 2	

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION			
					00	01	02	03
1	1	D-IA-7016778-0-0	7016778-00	LOGIC WELDMENT	1	1	-	-
2	2	C-MD-7421465-0-0	7421465-00	STRAIN RELIEF (TOP)	1	1	1	1
3	3	C-AD-7016745-0-0	7016745-00	FAN AND BRACKET ASSY.	2	2	2	2
4	4	C-MD-7422445-0-0	7422445-00	STRAIN RELIEF (BOTTOM)	1	1	1	1
5	5	C-MD-7422702-0-0	7422702-00	RETAINER, LOGIC CABLE	1	1	1	1
6	6		1216878-00	SPRING, FOR EJECTOR PANEL	1	1	-	-
7	7	D-IA-7017610-0-0	7017610-0E	STRAP, GROUNDING (5")	1	1	1	1
8	8		1016924-00	297 MFD 165V AL EL	1	-	1	-
9	9		9006015-01	SCREW, MACH PAN PHIL 4-	2	2	2	2
10	10		9006655-00	WASHER, FLAT SST	2	2	2	2
11	11		9006688-00	WASHER, HELICAL SPLIT SST	2	2	2	2
12	12	E-IA-7018331-0-0	7018331-00	LOGIC DC POWER HARNESS	1	1	1	1
13	13		9007018-00	GROMMET, RUBBER	1	1	1	1
14	14	C-IA-7016978-0-0	7016978-00	*** THIS ITEM IS NOT USED ***	-	-	-	-
15	15	D-IA-7016733-0-0	7016733-00	LOGIC AC HARNESS	1	1	1	1
16	16	C-IA-7016739-0-0	7016739-00	READ/WRITE CABLE ASSY.	1	1	1	1
17	17	C-IA-7016737-0-0	7016737-00	*** THIS ITEM IS NOT USED ***	-	-	-	-
18	18	C-IA-7016738-0-0	7016738-00	*** THIS ITEM IS NOT USED ***	-	-	-	-
19	19	B-IA-7016735-0-0	7016735-00	*** THIS ITEM IS NOT USED ***	-	-	-	-
20	20	D-IA-7016980-0-0	7016980-00	*** THIS ITEM IS NOT USED ***	-	-	-	-
21	21		9006037-02	SCREW, MACH FLAT PHIL 8-	2	2	2	2
22	22		9007033-00	TIE, CABLE BUNDL. DIA 0-1-3/4"=101	4	4	4	4
23	23		9006560-00	NUT, KEP 6-32X 5/16AF	1	1	1	1
24	24		9007035-00	GROMMET, CATERPILLAR NYLON	A/R	A/R	A/R	A/R
25	25		9009708-00	SCREW, TAP PAN PHIL THD RL 6-	13	13	13	13
26	26		9006659-00	WASHER, FLAT STEEL	7	7	7	7
27	27		9007651-00	WASHER, LOCK EXTERNAL STEEL	1	1	1	1
28	28	C-IA-7016740-0-0	7016740-00	*** THIS ITEM IS NOT USED ***	-	-	-	-
29	29	C-IA-7016737-0-0	7016737-01	*** THIS ITEM IS NOT USED ***	-	-	-	-
30	30		9006565-00	NUT, KEP 10-32X 3/8 AF	1	1	1	1

REVISION HISTORY		BASIC PART NO: 7016773		DRN:	M. ENGLE	DATE: 14-AUG-79	D I G I T A L			
ENG	ECD NUMBER	REV	SECTION A OF A	CHK'D:	B. MAJOR	DATE: 14-AUG-79	TITLE PARTS LIST			
GRN	R80-565	*	SECTION. VARIATION INDEX				LOGIC CHASSIS ASSEMBLY			
GN	7016773-CX001	A	[A] 00,01,02,03							
GN	R80-CX004	B		DES.ENG.:	A. CLARK	DATE: 14-AUG-79				
GN	R80-CX007	C	[B]	RESP.ENG.:	B. MONTERO	DATE: 14-AUG-79	DOCUMENT NUMBER			
JN	R80-CX008	D					SIZE	CODE	NUMBER	REV
JN	7016773-CX002	F	[C]	MFG.ENG.:	W. EHRMANN	DATE: 14-AUG-79	K	PL	7016773-0-DBP	M
JN	7016773-CX003	H		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:	FILE NAME:		EDIT #	
JN	7016773-CX004	J	[D]	E-AD-7016773-0-0		#B-DD-7018446-0	Z0495M.PLS		9	
JN	7016773-CX005	K								
JN	7016773-CX005	K	[E]							
JN	R80-CX010	L								
JN	7018446-CX002	M	[F]							

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LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION			
				00	01	02	03
31	31	9006024-01	SCREW,MACH PAN PHIL 6-	1	1	1	1
32	32	9009556-00	SPACER,RND,THD 6-32X 9/16L	4	4	4	4
33	33	9009636-00	*** THIS ITEM IS NOT USED ***	-	-	-	-
34	34	1017217-00	*** THIS ITEM IS NOT USED ***	-	-	-	-
35	35	9007253-02	*** THIS ITEM IS NOT USED ***	-	-	-	-
36	36 B-MD-7425331-0-0	7425331-00	INSULATOR	5	5	5	5
37	37	1019003-01	53-64MFD 330V AL EL	-	1	-	1
38	38 D-IA-7016778-0-0	7016778-01	LOGIC WELDMENT (FCC COMPLIANT)	-	-	1	1

39 NOTE:

LEGEND

NOTE:	PART NUMBER	VARIATION	
40	7016773-00	120V/60HZ	NOT FCC COMPLIANT
41	7016773-01	240V/50HZ	NOT FCC COMPLIANT
42	7016773-02	120V/60HZ	FCC COMPLIANT
43	7016773-03	240V/50HZ	FCC COMPLIANT

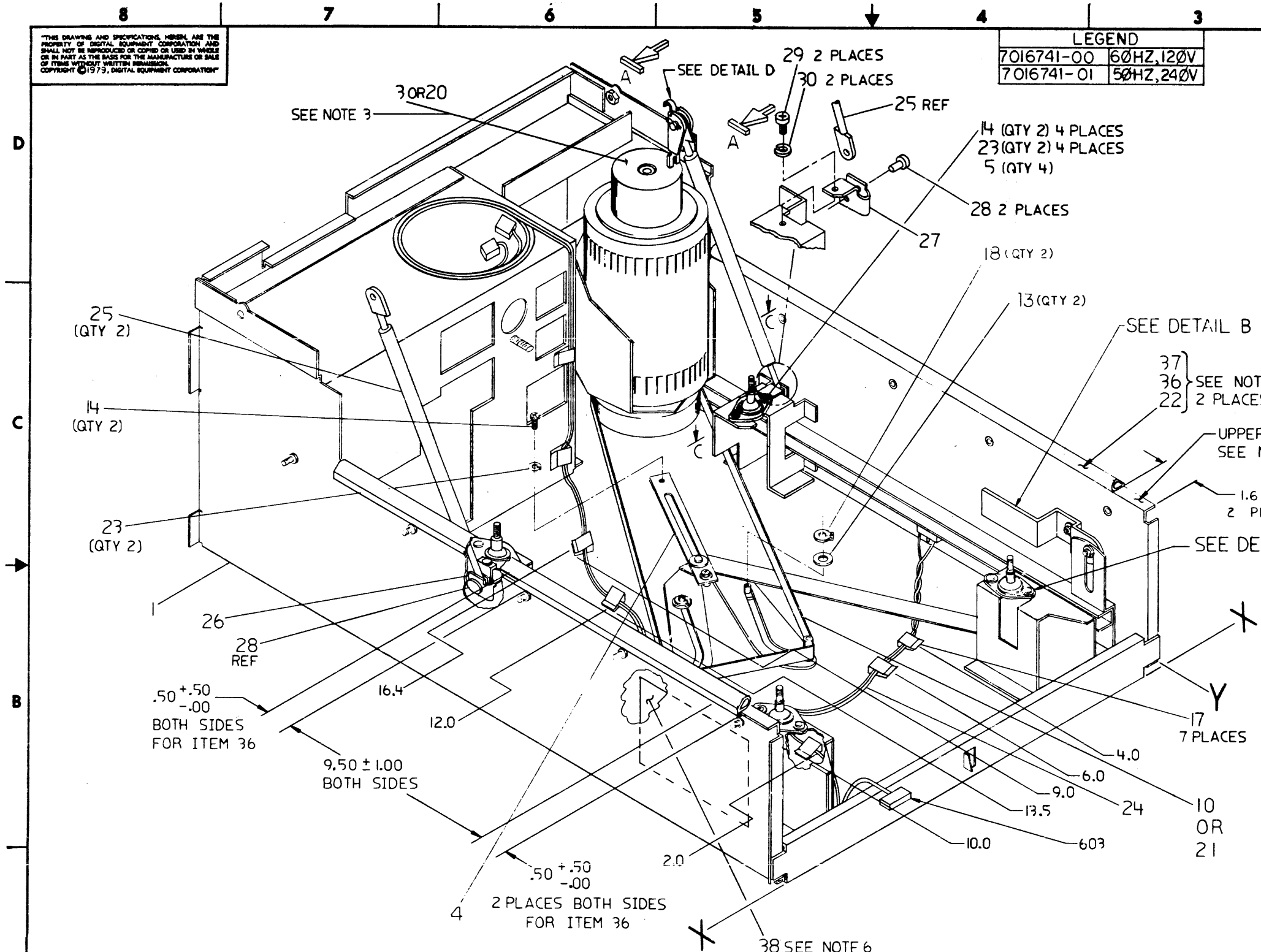
! ! ! ! ! ! ! !	! TITLE	! ! ! ! ! ! ! !	! SIZE ! CODE !	! DOCUMENT NUMBER	! REV !
! D ! I ! G ! I ! T ! A ! L !	! LOGIC CHASSIS ASSEMBLY.	! SECTION A OF A !	! K ! PL !	! 7016773-0-DBP	! M !

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LEGEND	
7016741-00	60HZ, 120V
7016741-01	50HZ, 240V

NOTES:

1. MOTOR TENSION TO BE SET AT 23 LBS ± 2 LBS. BY TURNING ADJUSTING SCREW ON MOTOR/BRAKE ASSY UNTIL INDICATOR EXTENDS SLIGHTLY BEYOND INDICATED SURFACE, (VIEW C-C), THEN REVERSE DIRECTION ON ADJUSTING SCREW UNTIL INDICATOR IS FLUSH. THIS PROCEDURE MUST BE DONE WITH EITHER AN HDA OR EQUIVALENT INSTALLED.
2. ADD LOCTITE 222 (ITEM 31) TO THREADS OF SCREW (ITEM 8) BEFORE ASSEMBLING.
3. IN DRIVES EQUIPPED WITH MOTOR PART NO. 1216578-01, A 43-53µfd START CAPACITOR IS REQUIRED IN LOGIC CHASSIS. (50 HZ ONLY).
4. USE PRIMER (ITEM 37) TO CLEAN INDICATED AREAS OF BOTH THE GASKET (ITEM 22) AND THE BASEPLATE WELDMENT (ITEM 1) PRIOR TO APPLICATION OF ADHESIVE (ITEM 36).
5. APPLY ADHESIVE (ITEM 36) TO UPPER SURFACE OF FLANGE ONLY. ADHESIVE TO BE .015-.030 THK.
6. LOCATE LABEL (ITEM 38) APPROXIMATELY AS SHOWN.

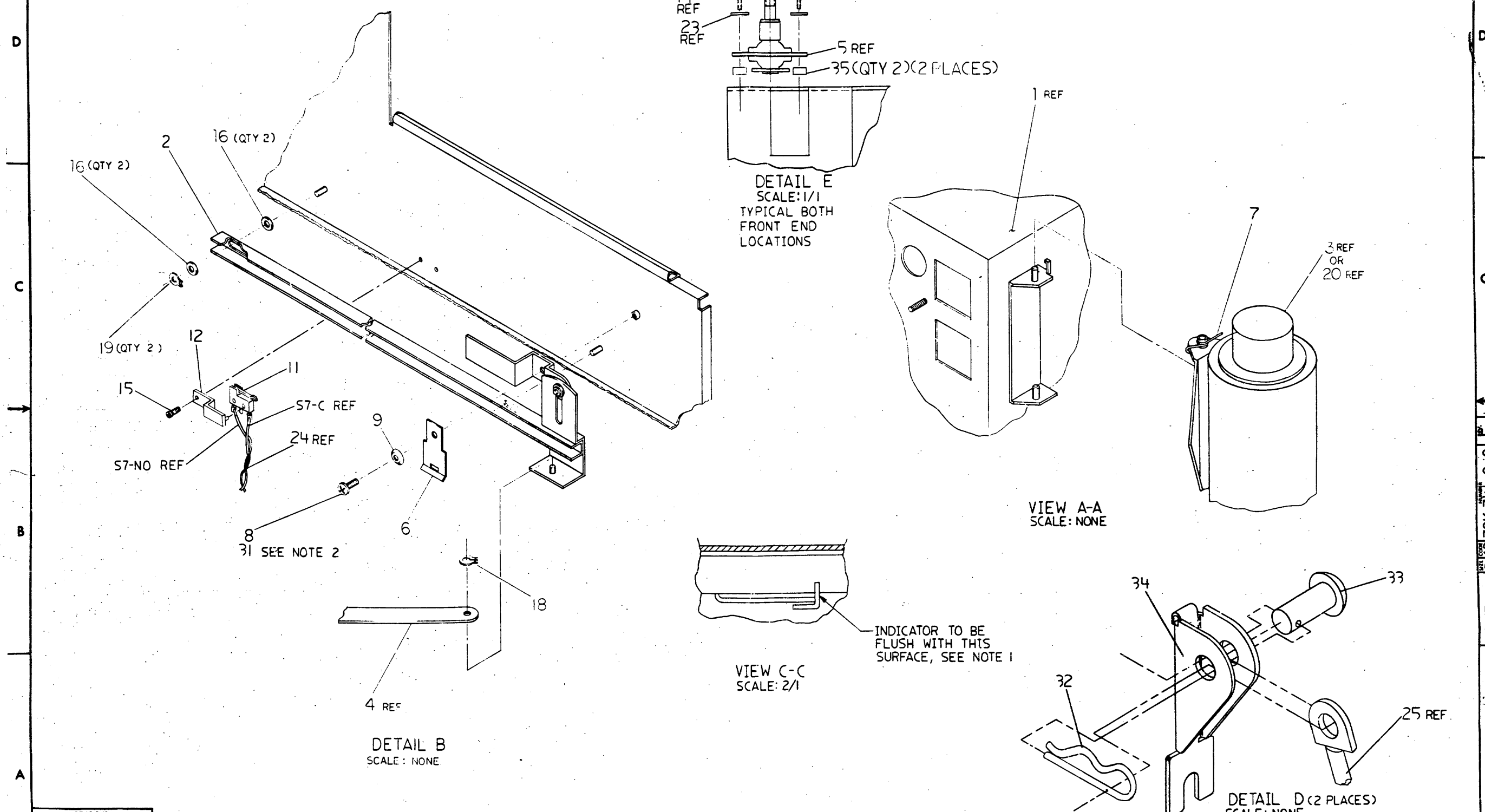


CAUTION: OFF SHEET PARTS LIST EXISTS. SEE K PL-7016741-0-DBP (Z0486).

REV.	DATE	BY	CHKD	DESCRIPTION
1	18 JAN 80	G. NORDBERG		RELEASED TO ECO CONTROL PER PCO -589
2	18 SEP 80	G. NORDBERG		DC. 18 SEP 80
3	24 MAR 81	R. N. NORDBERG		R. N. 24 MAR 81
4	21 MAY 81	J. NORDBERG		D.B. 21 MAY 81
5	17 JAN 82	G. FRENCHMAN		KED TEK 17 JAN 82
6	6 FEB 82	J. NORDBERG		K.D. 6 FEB 82

QUANTITY & VARIATION	DESCRIPTION	DWG./PART NO.	ITEM NO.
THIRD ANGLE PROJECTION	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
REMOVE BURRS AND BREAK SHARP CORNERS	ANGLES 30° 30'	CLASS OF ACCURACY	NOMINAL DIMENSION RANGE INCHES
DO NOT SCALE DWG	SURFACE QUALITY IN	(CHECK ONE)	OVER 0 TO 0.2
MATERIAL SEE PARTS LIST	MEDIUM	<input type="checkbox"/>	OVER 0.2 TO 0.5
FINISH	PREFERRED	<input type="checkbox"/>	OVER 0.5 TO 1.2
		<input type="checkbox"/>	OVER 1.2 TO 3.0
		<input type="checkbox"/>	OVER 3.0 TO 12.0
		<input type="checkbox"/>	OVER 12.0 TO 48.0
		<input type="checkbox"/>	OVER 48.0 TO 96.0
		<input type="checkbox"/>	OVER 96.0 TO 192.0
		<input type="checkbox"/>	OVER 192.0 TO 384.0
		<input type="checkbox"/>	OVER 384.0 TO 768.0
		<input type="checkbox"/>	OVER 768.0 TO 1536.0
		<input type="checkbox"/>	OVER 1536.0 TO 3072.0
		<input type="checkbox"/>	OVER 3072.0 TO 6144.0
		<input type="checkbox"/>	OVER 6144.0 TO 12288.0
		<input type="checkbox"/>	OVER 12288.0 TO 24576.0
		<input type="checkbox"/>	OVER 24576.0 TO 49152.0
		<input type="checkbox"/>	OVER 49152.0 TO 98304.0
		<input type="checkbox"/>	OVER 98304.0 TO 196608.0
		<input type="checkbox"/>	OVER 196608.0 TO 393216.0
		<input type="checkbox"/>	OVER 393216.0 TO 786432.0
		<input type="checkbox"/>	OVER 786432.0 TO 1572864.0
		<input type="checkbox"/>	OVER 1572864.0 TO 3145728.0
		<input type="checkbox"/>	OVER 3145728.0 TO 6291456.0
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		<input type="checkbox"/>	OVER 50331648.0 TO 100663296.0
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		<input type="checkbox"/>	OVER 201326592.0 TO 402653184.0
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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	LOWER CHASSIS ASSY	SIZE CODE	DAD	NUMBER	7016741-0-0	REV.	F
SCALE	NONE	SHEET	2	OF	2	DIST.	

DAD 7016741-0-0 F

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION	
				00	01
1	D-IA-7016234-0-0	7016234-00	WELDMENT BASEPLATE	1	1
2	D-AD-7016724-0-0	7016724-00	ASSEMBLY, ACTUATOR (BTRM)	1	1
3	C-AD-7016723-0-0	7016723-00	MOTOR ASSEMBLY	1	-
4	C-IA-7016230-0-0	7016230-00	ASSEMBLY, WING PIVOT (BTRM)	1	1
5		1216902-00	MOUNT, SHOCK, RUBBER	4	4
6	B-MD-7421993-0-0	7421993-00	SPRING, HANDLE LOCK	1	1
7	B-MD-7422440-0-0	7422440-00	SPRING, BELT RELEASE	1	1
8		9009836-00	SCREW, TRUSS, PHILLIPS, 8-32X1/4	1	1
9		9010204-00	WASHER, SPRING, .625 OD X .317 I	1	1
10		1212635-03	BELT, WOVEN, ENDLESS, 1/2"W X 35.68	1	-
11		1214011-00	SW, MICRO 1PDT NC-NO 5A	1	1
12	K-MD-7425943-0-DBU	7425943-01	BRACKET, SWITCH	1	1
13		9006714-00	WASHER, NYLON, FLAT #10 .500 OD	2	2
14		9009514-01	SCREW, PAN, PHIL, TAP'G 6-32X .375	10	10
15		9009905-00	SCREW, PHILLIPS PAN HD, TAPTITE	1	1
16		9008990-00	WASHER, MICRO-SWITCH, NYLON, 25	4	4
17		9009636-00	CLAMP, CABLE, FOR FLAT CABLE	7	7
18		9008137-00	RING, RETAINING, EXTERNAL, FOR 1	3	3
19		9007784-00	RING, RETAINING, EXTERNAL, FOR 3	2	2
20	D-AD-7016723-0-0	7016723-01	MOTOR ASSY. (50HZ)	-	1
21		1212635-04	BELT, WOVEN, ENDLESS, 1/2"W X 36.81	-	1
22	B-MD-7426251-0-0	7426251-06	GASKET, CONDUCTING (18.25 LG)	2	2
23		9007801-00	WASHER, LOCK, S.S. #6	10	10
24	D-IA-7016980-0-0	7016980-00	BELT TENSION SWITCH HARNESS	1	1
25		1217072-00	SPRING, GAS, 45LBS	2	2
26	B-MD-7422795-0-0	7422795-01	GAS SPRING, PIVOT	1	1
27	B-MD-7422795-0-0	7422795-00	GAS SPRING PIVOT (L.H.)	1	1
28		9010210-00	PIN, CLEVIS .311 DIA X .480L	2	2
29		9006036-01	SCREW, PAN, PHIL 8-32X 5/16 SS	2	2
30		9006690-00	WASHER, LOCK, S.S. #8	2	2

REVISION HISTORY			BASIC PART NO: 7016741		DRN: R. M. TUSLER		DATE: 14-AUG-79		D I G I T A L		
ENG	ECD NUMBER	REV	SECTION A OF A	CHK'D:	R. E. THELLEN	DATE:	14-AUG-79	TITLE PARTS LIST			
			SECTION. VARIATION INDEX					LOWER CHASSIS ASSEMBLY			
			[A] 00,01								
GRN	R80-565	*									
GN	7016741-CX001	A	[B]	DES.ENG.:	A. CLARK	DATE:	14-AUG-79				
GN	R80-CX004	B									
JN	R80-CX008	C	[C]	RESP.ENG.:	W. MONTERO	DATE:	14-AUG-79	DOCUMENT NUMBER			
JN	7018446-CX001	D									
GF	7016741-CX002	E	[D]								
JN	7016741-CX003	F	[E]	MFG.ENG.:	W. EHRMANN	DATE:	16-JAN-80	K	PL	7016741-0-DBP	F
			[F]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
				D-AD-7016741-0-0		#B-DD-7018446-0		Z0486F.PLS		55	

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LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION	
				00	01
31	31	4901344-00	ADHESIVE,SEALANT,LO-STRENGTH,THD	A/R	A/R
32	32	9010211-00	CLIP,HITCH PIN 9/16L SPRW/ZINC	2	2
33	33	9010210-01	PIN,CLEVIS .215 DIA X .700L	2	2
34	34	B-MD-7422694-0-0	7422694-00	BRACKET, GAS SPRING PIVOT	2 2
35	35	B-MD-7425746-0-0	7425746-01	SPACER, CLEAR HOLE, ALUM	- 4
36	36	4901462-00	ADHESIVE/SEALANT,SLICONE RUBBER	A/R	A/R
37	37	4901465-00	PRIMER	A/R	A/R
38	38	3618804-01	LABEL,LOCK INFORMATION	1	1

39 NOTE: LEGEND
 40 NOTE: PART NO. VARIATION
 41 NOTE: 7016741-00 120V,60HZ
 42 NOTE: 7016741-01 240V,50HZ

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							LOWER CHASSIS ASSEMBLY				7016741-0-DBP	F
									K	PL		

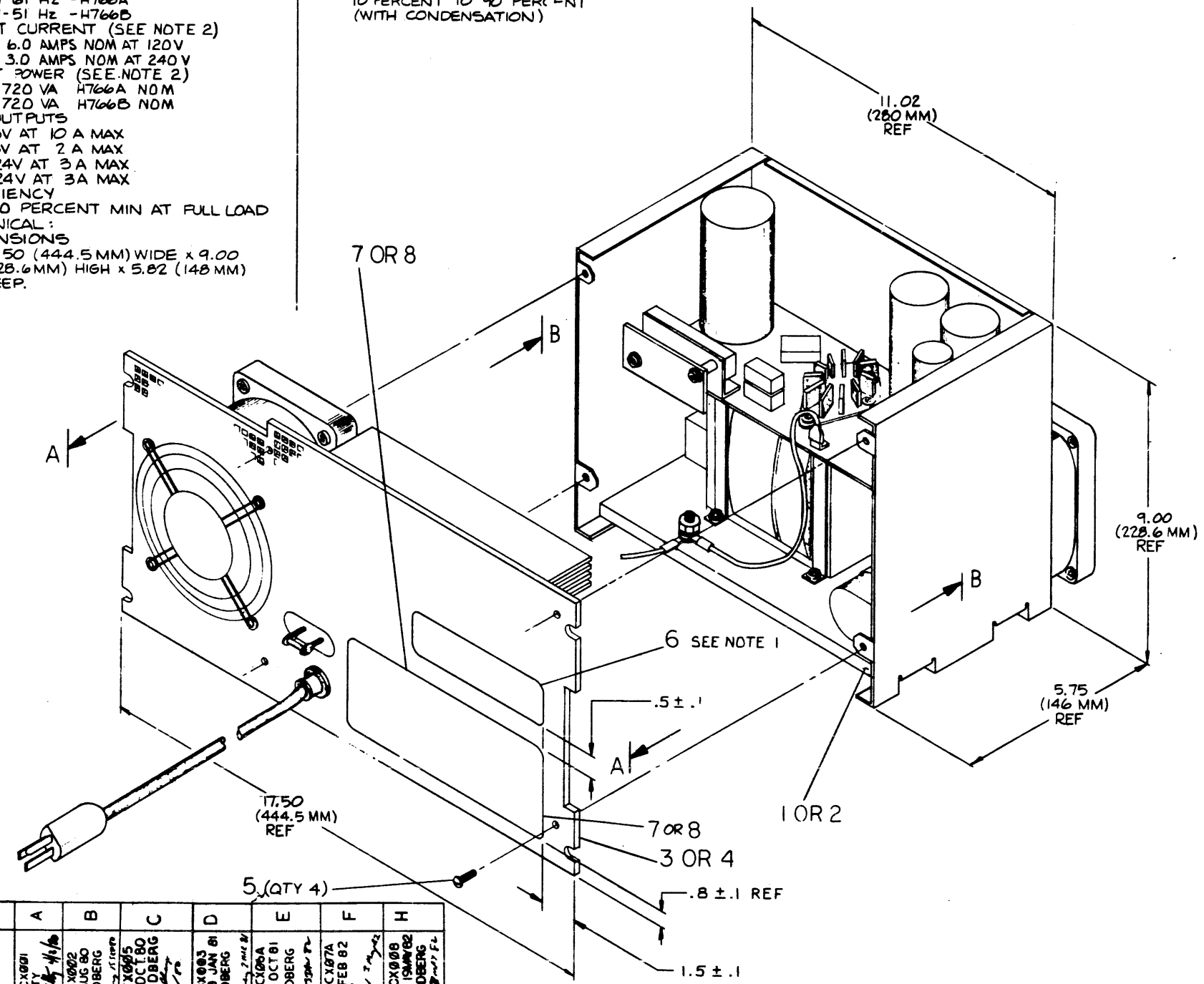
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SPECIFICATIONS:
ELECTRICAL:
 • INPUT VOLTAGE (SINGLE PHASE, 2 WIRE)
 90-128 Vrms - H766A
 180-256 Vrms - H766B
 • INPUT FREQUENCY
 59-61 Hz - H766A
 49-51 Hz - H766B
 • INPUT CURRENT (SEE NOTE 2)
 6.0 AMPS NOM AT 120V
 3.0 AMPS NOM AT 240V
 • INPUT POWER (SEE NOTE 2)
 720 VA H766A NOM
 720 VA H766B NOM
 • DC OUTPUTS
 +5V AT 10 A MAX
 -5V AT 2 A MAX
 +24V AT 3 A MAX
 -24V AT 3 A MAX
 • EFFICIENCY
 40 PERCENT MIN AT FULL LOAD
MECHANICAL:
 • DIMENSIONS
 17.50 (444.5 MM) WIDE x 9.00 (228.6 MM) HIGH x 5.82 (148 MM) DEEP.

WEIGHT
 32 POUNDS (14.52 KG)
 • **COOLING**
 FORCED AIR, 115 CFM FAN
 • **AMBIENT TEMPERATURE**
 OPERATING -0°C -60°C
 STORAGE -40°C - +70°C
 • **ALTITUDE**
 10,000 FEET (3048 METERS) MA
 • **RELATIVE HUMIDITY**
 10 PERCENT TO 90 PERCENT (WITH CONDENSATION)

LEGEND	
PART NO.	VARIATION
H766-A	120V 60HZ
H766-B	240V 50HZ

NOTES:
 1. APPLY LABEL TO REAR PANEL AFTER ASSEMBLY APPROXIMATELY WHERE SHOWN. LABEL TO IDENTIFY DIGITAL PART NO., APPROPRIATE DASH NO., ASSEMBLY REV, ANY OUTSTANDING ECO'S, MANUFACTURING LOCATION, 4 DIGIT DATE CODE, DATE TESTED AND MANUFACTURING SERIAL NO.
 2. CURRENT AND POWER RATINGS ARE NOMINAL AND REFLECT 1/3 HP DRIVE MOTOR RUNNING AT 3400 RPM.
~~3. ATTACH GROUNDS (GREEN/YELLOW WIRES) FROM CAPACITOR BOARD AND FROM REAR PANEL USING SCREW (ITEM 5) AND LOCK WASHER (ITEM 9) AS SHOWN.~~

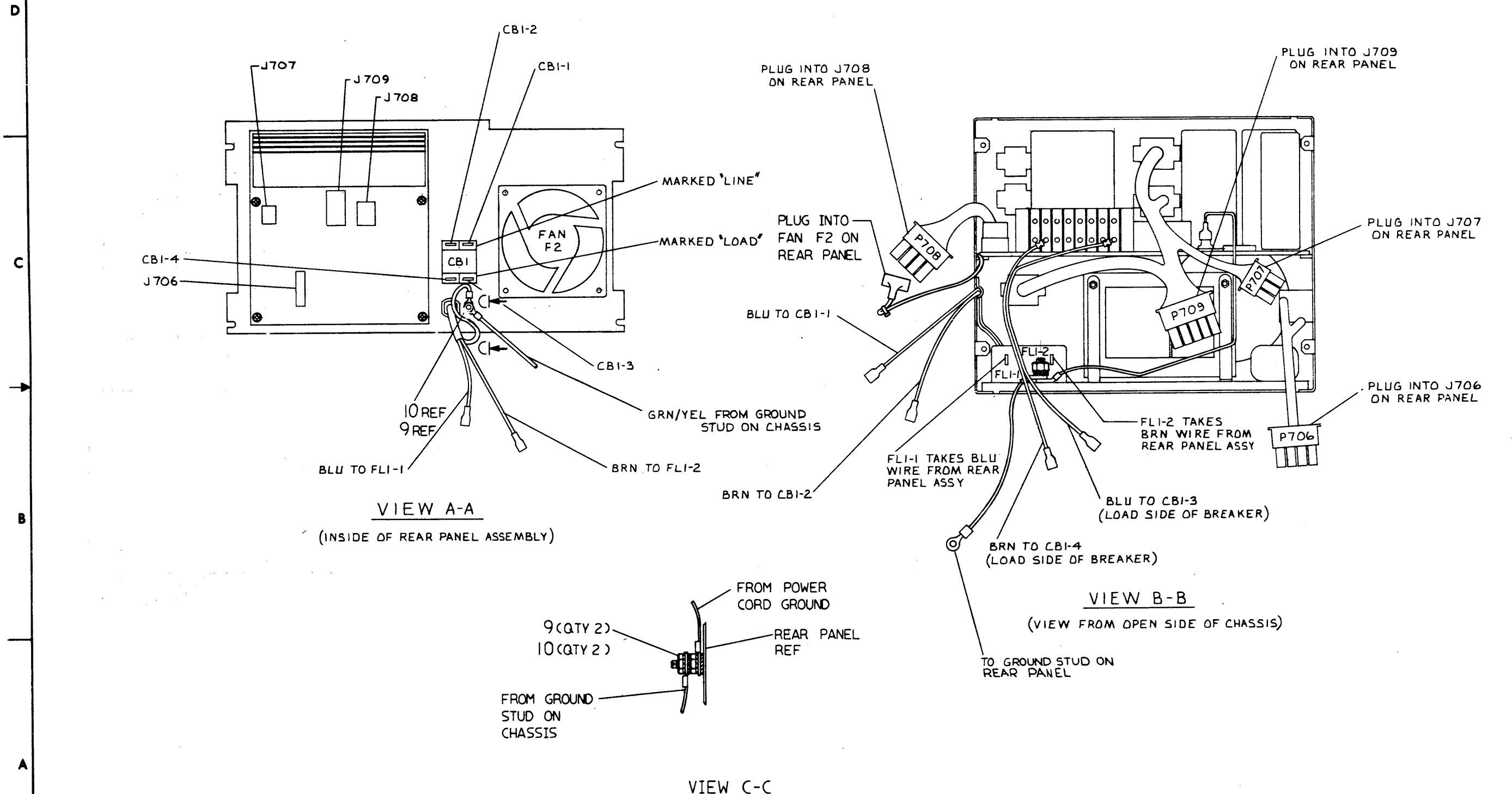


CAUTION: OFF SHEET PARTS LIST EXISTS. SEE K-PL-H766-0-DBP (20501).

REV.	* CHANGE NO.	A	B	C	D	E	F	H	
1	1	H766-CX001 M. KELTY 11/15/75	H766-CX002 D.C. 27 AUG 80 G. NORDBERG	H766-CX003 K.D. 3 OCT 80 G. NORDBERG	H766-CX004 R.N. 28 JAN 81 J. NORDBERG	H766-CX005 T.F. 14 OCT 81 J. NORDBERG	H766-CX006 B. RAY 12/15/75	H766-CX007 M.BELL (S/N 02) J. NORDBERG 1/2/76	

QUANTITY & VARIATION	DESCRIPTION	DWG. PART NO.	ITEM NO.
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
THIRD ANGLE PROJECTION	ANGLES	CLASS OF ACCURACY	NOMINAL DIMENSION RANGE INCHES
	SURFACE QUALITY	(CHECK ONE)	
REMOVE BURRS AND BREAK SHARP CORNERS	MEDIUM	1.000	1.000
	PREFERRED	1.012	1.016
DO NOT SCALE DWG	DRN. M. Engle	17 APR 75	FIRST USED ON
MATERIAL SEE OFF SHEET PARTS LIST	CHK'D		TITLE H766 POWER SUPPLY ASSEMBLY
	PROL. ENG.		
FINISH	PROD.		SIZE CODE D UA
	NEXT HIGHER ASBY.		NUMBER H766-0-0
	SCALE NONE		REV. H
	SHEET 1 OF 2		

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REVISION HISTORY		
DATE	ECO NUMBER	REV.

TITLE		DOCUMENT NUMBER	
H766 POWER SUPPLY ASSEMBLY		SIZE CODE	NUMBER
		DUA	H766-0-0
		SCALE NONE	SHEET 2 OF 2
		REV.	H

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION	
				A	B
1	1	E-AD-7016794-0-0	7016794-00	POWER SUPPLY CHASSIS ASSEMBLY	1 -
2	2	E-AD-7016794-0-0	7016794-01	H766 CHASSIS ASSY.(240V/50HZ)	- 1
3	3	E-AD-7016227-0-0	7016227-00	REAR PANEL ASSY	1 -
4	4	E-AD-7016227-0-0	7016227-01	REAR PANEL ASSY.	- 1
5	5		9006418-01	SCREW,TAP PAN PHIL THD RL 8-	4 4
6	6		9009255-01	LABEL, POWER SUPPLY, 2-7/8" LG X	1 1
7	7		3617323-00	LABEL,H766A P.S. 60HZ	1 -
8	8		3617323-01	LABEL,H766B P.S. 50HZ	- 1
9	9		9006565-00	NUT,KEP 10-32X 3/8 AF	2 2
10	10		9007651-00	WASHER,LOCK EXTERNAL STEEL	2 2
11	11	D-CS-H766-0-2		H766 POWER SUPPLY	REF REF

12 NOTE: -
 13 NOTE: -
 14 NOTE: -
 15 NOTE: -

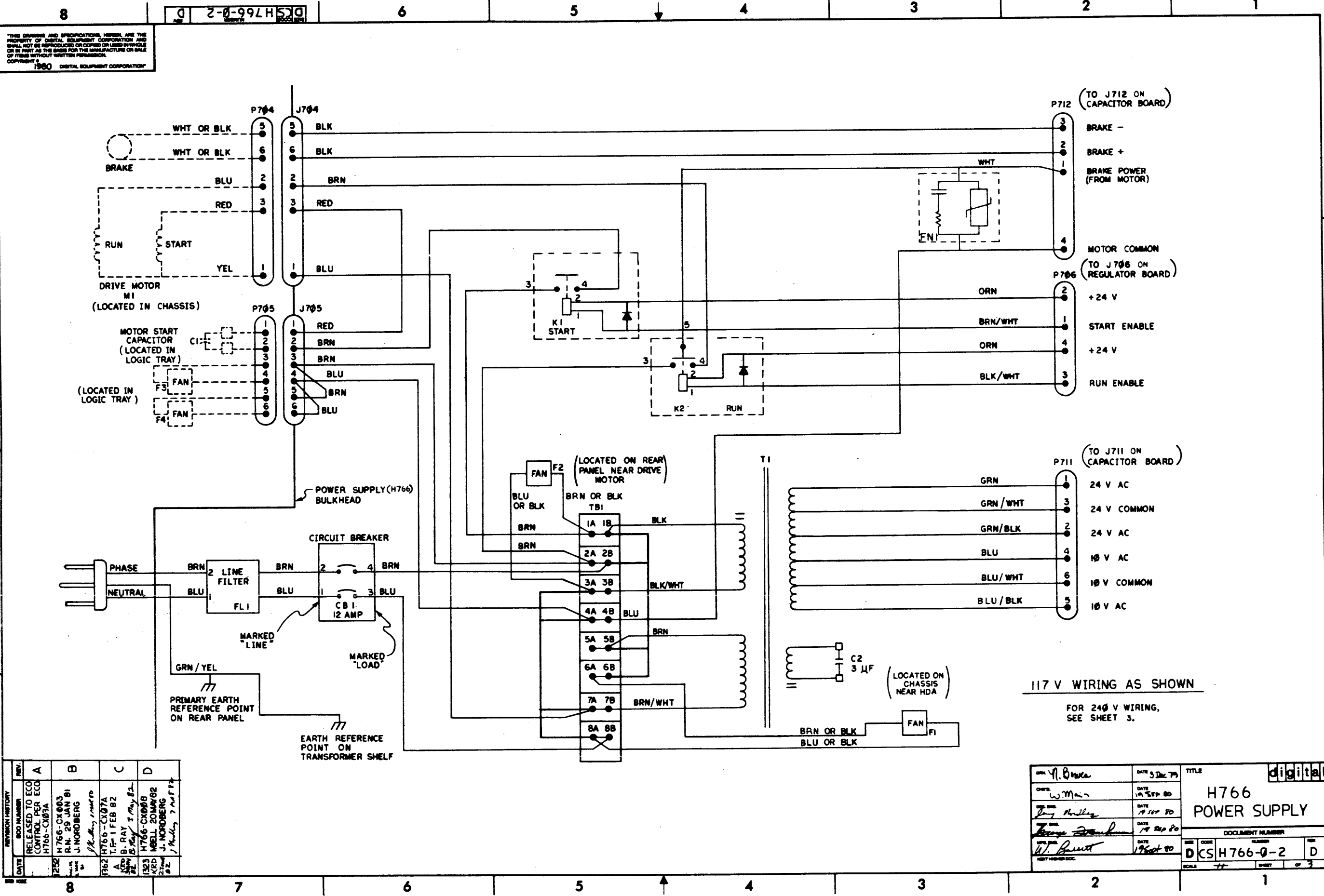
LEGEND

PART NUMBER	DESCRIPTION
H766-A	120V/60HZ
H766-B	240V/50HZ

REVISION HISTORY		BASIC PART NO: OH766		DRN: M. ENGLE	DATE: 15-MAY-79	DIGITAL				
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D: W. MAJOR	DATE: 26-SEP-79	TITLE		PARTS LIST		
GN			SECTION. VARIATION INDEX	DES.ENG.: A. CLARK	DATE: 26-SEP-79	H766 POWER SUPPLY ASSEMBLY				
GRN	R80-565	*	[A] A ,B	RESP.ENG.: W. MONTERO	DATE: 26-SEP-79	DOCUMENT NUMBER				
MK	H766-CX001	A	[B]	MFG.ENG.: W. EHRMANN	DATE: 16-JAN-80	SIZE	CODE	NUMBER	REV	
GN	H766-CX002	B	[C]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	K	PL	H766-0-DBP	H	
GN	R80-CX005	C	[D]	D-UA-H766-0-0	# B-DD-H766-0	FILE NAME:		EDIT #		
JN	H766-CX003	D	[E]			Z0501H.PLS		51		
JN	H766-CX06A	E	[F]							
BR	H766-CX07A	F								
JN	H766-CX008	H								

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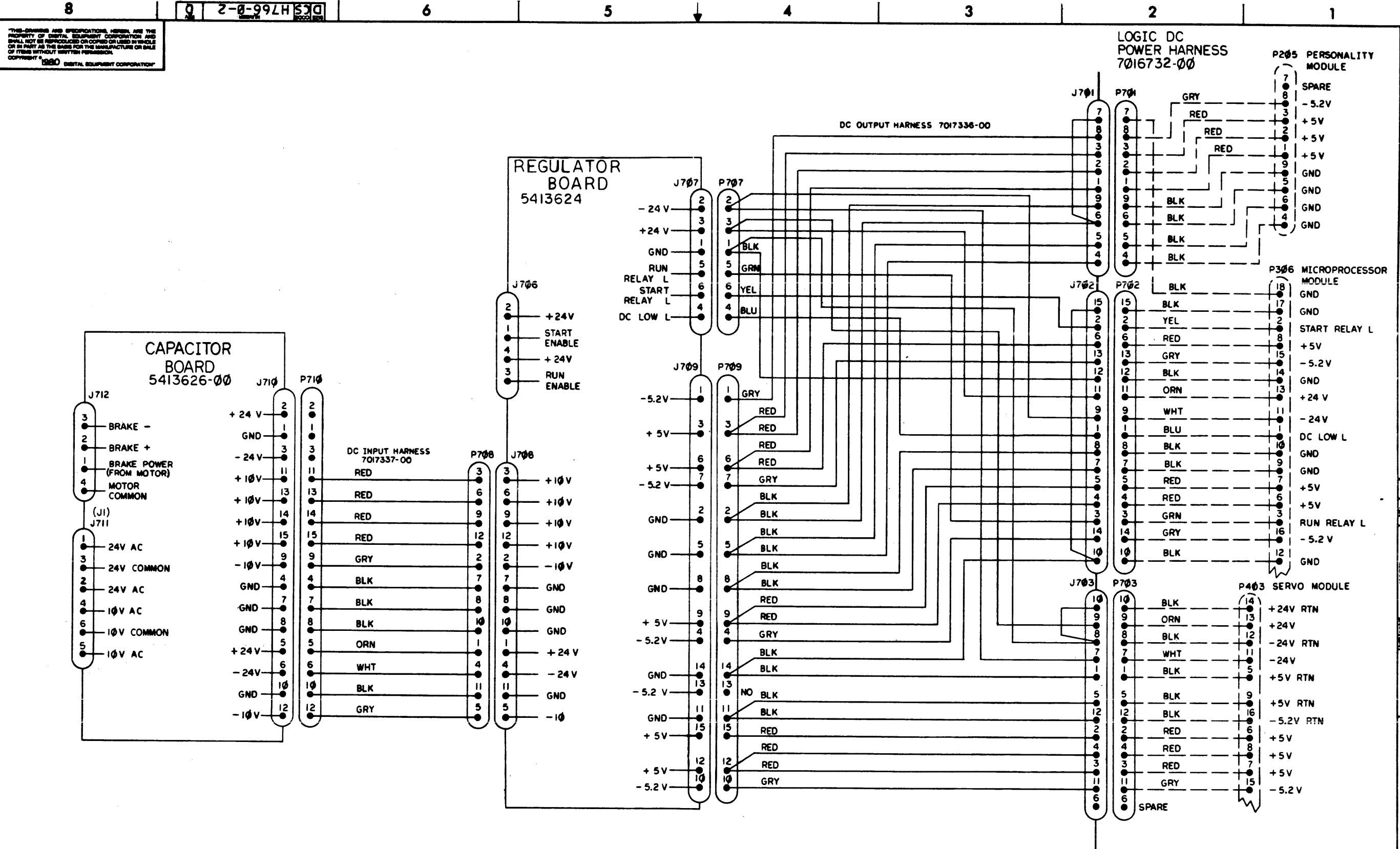
117 V WIRING AS SHOWN
 FOR 240 V WIRING, SEE SHEET 3.

DATE	REVISION HISTORY	REV.
12/82	RELEASED TO ECO CONTROL PER ECO H766-CX03A	A
1/29/81	H766-CX003 R.N. 29 JAN 81 J. NORDBERG	B
1/11/82	H766-CX07A T.F. 11 FEB 82 B. RAY	C
1/23/82	H766-CX008 K.E.D. MELL 20 MAR 82 J. NORDBERG	D

DESIGNED BY: <i>W. Bruck</i>	DATE: 3 Dec 79	TITLE: digital
CHECKED BY: <i>W. Man</i>	DATE: 19 Sep 80	H766 POWER SUPPLY
DESIGNED BY: <i>Ray Hurling</i>	DATE: 19 Sep 80	
CHECKED BY: <i>Ray Hurling</i>	DATE: 19 Sep 80	
DESIGNED BY: <i>W. Bruck</i>	DATE: 19 Sep 80	
DOCUMENT NUMBER: DCSH766-0-2		D
SCALE: 1:1	SHEET: 3	

DCSH766-0-2

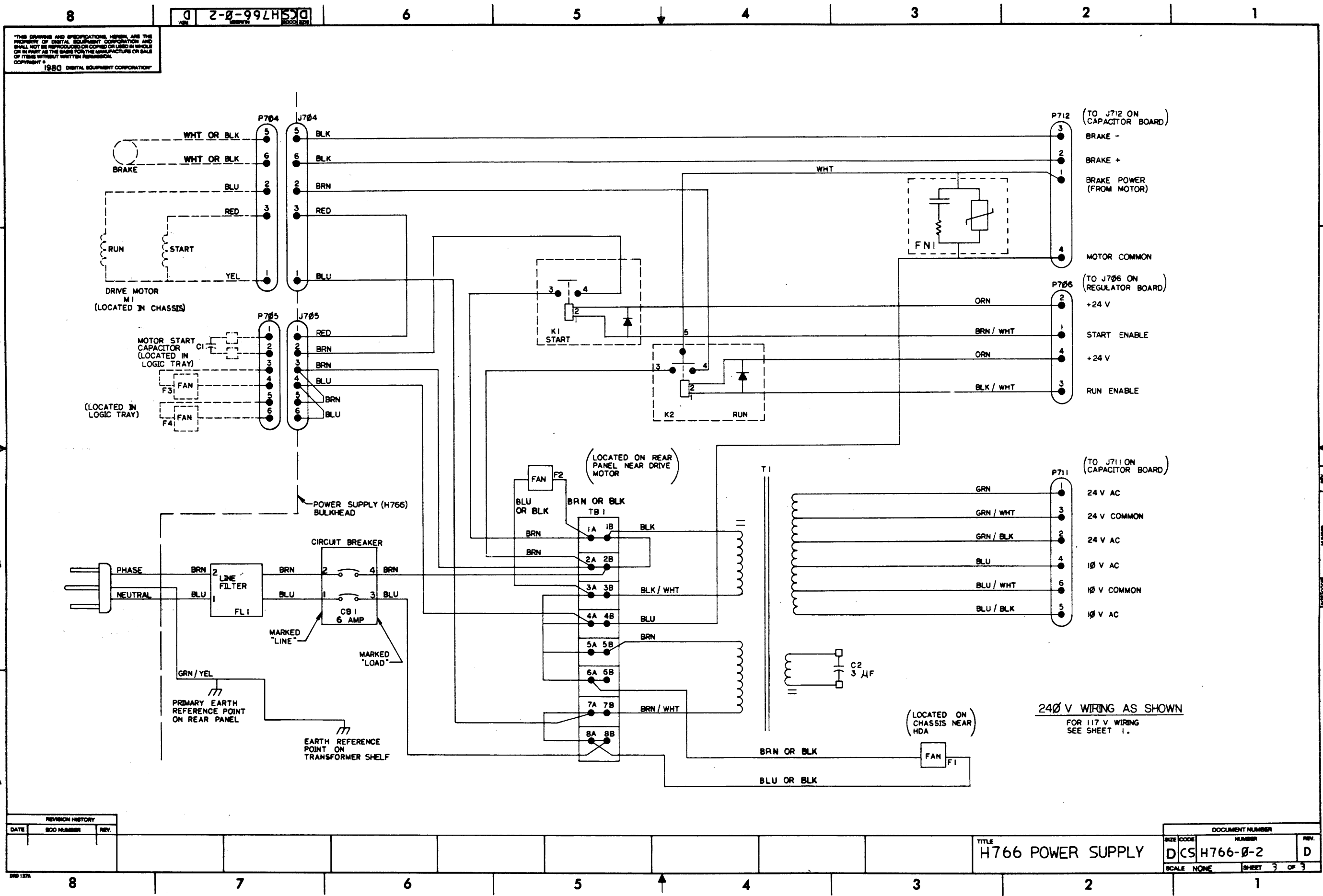
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REVISION HISTORY			DOCUMENT NUMBER	
DATE	ECO NUMBER	REV.	SIZE	NUMBER
			D	H766-0-2
			SCALE	SHEET 2 OF 3

TITLE: H766 POWER SUPPLY

DCSH766-0-2



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REVISION HISTORY		
DATE	ECO NUMBER	REV.

TITLE
H766 POWER SUPPLY

DOCUMENT NUMBER		
SIZE CODE	NUMBER	REV.
DCS	H766-0-2	D
SCALE NONE	SHEET 3 OF 3	

DCS H766-0-2

8 6 5 4 3 2 1

D
C
B
A

REWORK INSTUCTIONS:

ECO 5413624-CX005:

COMPONENT DELETES: (SIDE 1)

5-1 R41 (1303312-00) 10K, 1/4W, 1%.

COMPONENT ADDS: (SIDE 1)

5-2 R41 (1317240-00) 11K, 1/4W, 1%.

ECO 5413624-CX006:

COMPONENT DELETES: (SIDE 1)

6-1 R9 39, 1/4W, 5% (1302377-00).

6-2 F1 FUSE, SLO BLOW 6.25A (9007223-00).

COMPONENT ADDS: (SIDE 1)

6-3 R9 22, 1/4W, 5% (1301969-00).

6-4 F1 FUSE, SLO BLOW 7.0A (9007224-00).

ECO 5413624-CX007:

COMPONENT DELETES (SIDE 1)

7-1 R9 22, 1/4W, 5% (1301969-00)

7-2 R8 .04, 5W, 3% (1311362-00)

7-3 F1 FUSE, SLO BLOW, 7.0A (9007224-00)

7-4 F2 FUSE, SLO BLOW, 5.0A (9007222-00)

COMPONENT ADDS: (SIDE 1)

7-5 R9 39, 1/4W, 5% (1302377-00)

7-6 R8 .03, 5W, 3% (1310876-01)

7-7 F1 FUSE, REG. BLOW, 12.0A (9008279-00)

7-8 F2 FUSE, REG BLOW, 12.0A (9008279-00)

DJA5413624-0-0 K

REVISION HISTORY		
DATE	ECO NUMBER	REV.

TITLE
REGULATOR BOARD

DOCUMENT NUMBER		REV.
SIZE CODE	NUMBER	
DUA	5413624-0-0	K
SCALE NONE	SHEET 2 OF 2	

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					00		
1	1	C-MD-5013623-0-0	5013623-00	DRILL & ETCH BD	1		
2	2		9008185-00	NUT,KEP 6-32X 1/4 AF	12		
3	3		1000009-00	33.0 MMF 100V 5%200PPM MICA	4		C3,C9,C26,C29
4	4	SEE NOTE 1	1011683-00	.022 MFD 50V 10% CER	1		C30
5	5		1001636-00	2400.0 MMF 100V 5%200PPM MICA	1		C28
6	6		1000080-00	50 MFD 50V +75-10% AL EL	1		C17
7	7		1001610-00	.01 MFD 50V +80-20% Z5U CER	13		C2,C4,C7,C8,C10,C12,C13,C19,C20, CONT C21,C22,C23,C27
8	8		1001796-00	50 MFD 25V +75-10% AL EL	1		C25
9	9		1002781-00	100 MFD 25V +75-10% AL EL	2		C11,C24
10	10		1009433-00	190 MFD 12V +75-10% AL EL	1		C6
11	11		1010274-01	.22 MFD 50V +80-20% Z5U CER	4		C1,C15,C16,C18
12	12		1010978-36	.1 MFD 50V 10% CER	2		C5,C14
13	13		1100114-00	D 664 QS\75PCB PIV= 25V SP	4		D3,D7,D8,D9
14	14		1105275-00	D 672 TR= 15NS PIV= 60V SI	4		D5,D6,D14,D16
15	15		1105796-00	1N 4004 PIV=400 I= 1A D041 SP	2		D10,D11,
16	16		1105871-00	1/4M5.1AZ1 = 5.1 1% .25W N	2		D1,D12
17	17		1212297-01	MATE-N-LOK 04PIN(1X04).250CC HDR	1		J706
18	18		1212297-04	MATE-N-LOK 15PIN(2X08).250CC HDR	1		J709
19	19		1212297-07	MATE-N-LOK 06PIN(2X03).250CC HDR	1		J707
20	20		1212297-08	MATE-N-LOK 12PIN(2X06).250CC HDR	1		J708
21	21		1212487-00	HEAT SINKS 01.18X01.0	4		
22	22		1300171-00	10.0 1.0 W 5.0 % CC	2		R1,R2
23	23		1300202-00	47.0 .25 W 5.0 % CC	2		R20,R37
24	24		1300219-00	68.0 .25 W 5.0 % CC	2		R18,R36
25	25		1300229-00	100.0 .25 W 5.0 % CC	2		R7,R25
26	26		1300247-00	120.0 .25 W 5.0 % CC	1		R27
27	27		1300271-00	220.0 .25 W 5.0 % CC	3		R35,R52,R53
28	28		1300295-00	330.0 .25 W 5.0 % CC	3		R11,R54,R55
29	29		1300297-00	330.0 1.0 W 5.0 % CC	1		R24

REVISION HISTORY		BASIC PART NO: 5413624		DRN:	H. WEINBRENNER	DATE:	14-DEC-79	DIGITAL			
ENG!	ECO NUMBER	REV	SECTION A OF A	CHK'D:	A. SIMM	DATE:	23-DEC-79	TITLE PARTS LIST			
---	INITIAL	B	SECTION.VARIATION INDEX	CHK'D:	A. SIMM	DATE:	23-DEC-79	REGULATOR BOARD			
---	INITIAL	B	[A] 00								
---	INITIAL	B	[B]								
---	INITIAL	B	[C]	DES.ENG:	J. RINALDIS	DATE:	9-JAN-80				
JR	5413624-CX001	C	[D]					DOCUMENT NUMBER			
JR	5413624-CX002	D	[E]								
JR	5413624-CX003	E	[F]	RESP.ENG.:	M. HAMMER	DATE:	9-JAN-80				
JR	5413624-CX05A	F	[H]					SIZE	CODE	NUMBER	REV
BR	5413624-CX006	H	[J]								
BR	5413624-CX007	J	[K]	MFG.ENG.:	N. HEDENSTEN	DATE:	9-JAN-80	K	PL	5413624-0-DBP	K
BR	5413624-CX08A	K	[L]								
			[M]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #:	
			[N]	D-UA-5413624-0-0		B-DD-5413624-0		Z0492K.PLS		55	

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					00		
30	30		1300316-00	470.0 .25 W 5.0 % CC	5		R3,R21,R26,R58,R59
31	31		1300324-00	511.0 .75 W 1.0 % RN65D-F10	1		R60
32	32		1300364-00	1.0 K .50 W 5.0 % CC	1		R10
33	33		1300365-00	1.0 K .25 W 5.0 % CC	4		R51,R56,R57,R62
34	34		1300447-00	4.70 K .25 W 5.0 % CC	4		R47,R49,R63,R65
35	35		1300479-00	10.0 K .25 W 5.0 % CC	1		R50
36	36		1301317-00	10.0 .25 W 5.0 % CC	2		R19,R38
37	37		1301890-00	560.0 .25 W 5.0 % CC	2		R28,R61
38	38		1302124-00	18.0 .25 W 5.0 % CC	1		R23
39	39		1302377-00	39.0 .25 W 5.0 % CC	1		R9
40	40		1302388-00	2.0 K .25 W 5.0 % CC	1		R48
41	41		1305337-00	3.65 K .25 W 1.0 % RN55D-F10	1		R30
42	42		1302666-00	10.0 M .25 W 5.0 % CF	2		R45,R46
43	43		1303045-00	3.16 K .25 W 1.0 % RN55D-F10	1		R31
44	44		1303312-00	10.0 K .25 W 1.0 % RN55D-F10	3		R42,R43,R44
45	45		1302941-00	14.70 K .25 W 1.0 % RN55D-F10	1		R15
46	46		1303313-00	12.10 K .25 W 1.0 % RN55D-F10	3		R12,R13,R14
47	47		1304837-00	24.0 K .25 W 5.0 % CC	1		R29
48	48		1304855-00	9.09 K .25 W 1.0 % RN55D-F10	2		R39,R40
49	49		1304870-00	6.81 K .25 W 1.0 % RN55D-F10	2		R32,R33
50	50		1310876-02	.06 5.0 W 3.0 % WW	1		R22
51	51		1309143-07	1.0 K .75 W10.0 % POT	1		R34
52	52		1309143-08	2.0 K .75 W10.0 % POT	1		R17
53	53		1310876-01	.03 5.0 W 3.0 % WW	1		R8
54	54		1310876-03	.05 5.0 W 3.0 % WW	4		R4,R5,R6,R64
55	55		1505867-00	2N 4441 SCRE 50V & 8A	1		Q13
56	56		1509604-00	DEC4923 NPN 30WC SI 80 20 M	1		Q5
57	57		1510377-01	2N 5294 NPN 36WC SI 70 30 LE	1		Q9
58	58		1510705-00	XA 05 NPN 500MW SI 60 50 P	2		Q15,Q16
59	59		1510706-00	XA 55 PNP 500MW SI 60 50 P	3		Q8,Q11,Q12
60	60		1510959-00	2N 3725 NPN 3.5WC SI 50 60 P	1		Q6
61	61		1511686-00	DEC5433 FET N 350MW 10 25 1A	1		Q14
62	62		1512212-00	DEC8098 NPN 350MW SI 60 50	2		Q7,Q10
63	63		1910282-00	301AN OP AMP	4		E1,E2,E3,E4
64	64		1911637-00	74132 NAND GATE-QUAD 2 IN	1		E5
65	65		1912792-00	DEC 7915 VOLT REG, FIX -15V	1		E7
66	66		1313594-00	14.0 K .25 W 1.0 % RN55D-F10	1		R16
67	67		9006012-01	SCREW,PAN,PHIL 4-40X 7/16 SS	4		
68	68		9006024-01	SCREW,PAN,PHIL 6-32X 1/2 SS	15		
69	69		9006557-00	NUT,KEP 4-40X 1/4 AF	4		
70	70		1103340-00	1N 4736A VZ= 6.8 5% 1W Y	1		D13
71	71		9006655-00	WASHER, FLAT, .312 O.D. X .125 I	9		
72	72		9007201-00	TRANSIPADS #10253	2		
73	73		9007203-00	CLIP, FUSE, WITH STOP, SCREW MOU	4		
74	74		9008279-00	FUSE,REG BLO 12 A, 32V GLASS	2		F1,F2
75	75		9007224-00	*** THIS ITEM IS NOT USED ***	-		
76	76		9009000-00	EYELET,ROLLED 0.1210DX0.156	4		
77	77		1216281-00	HEAT SINK	1		

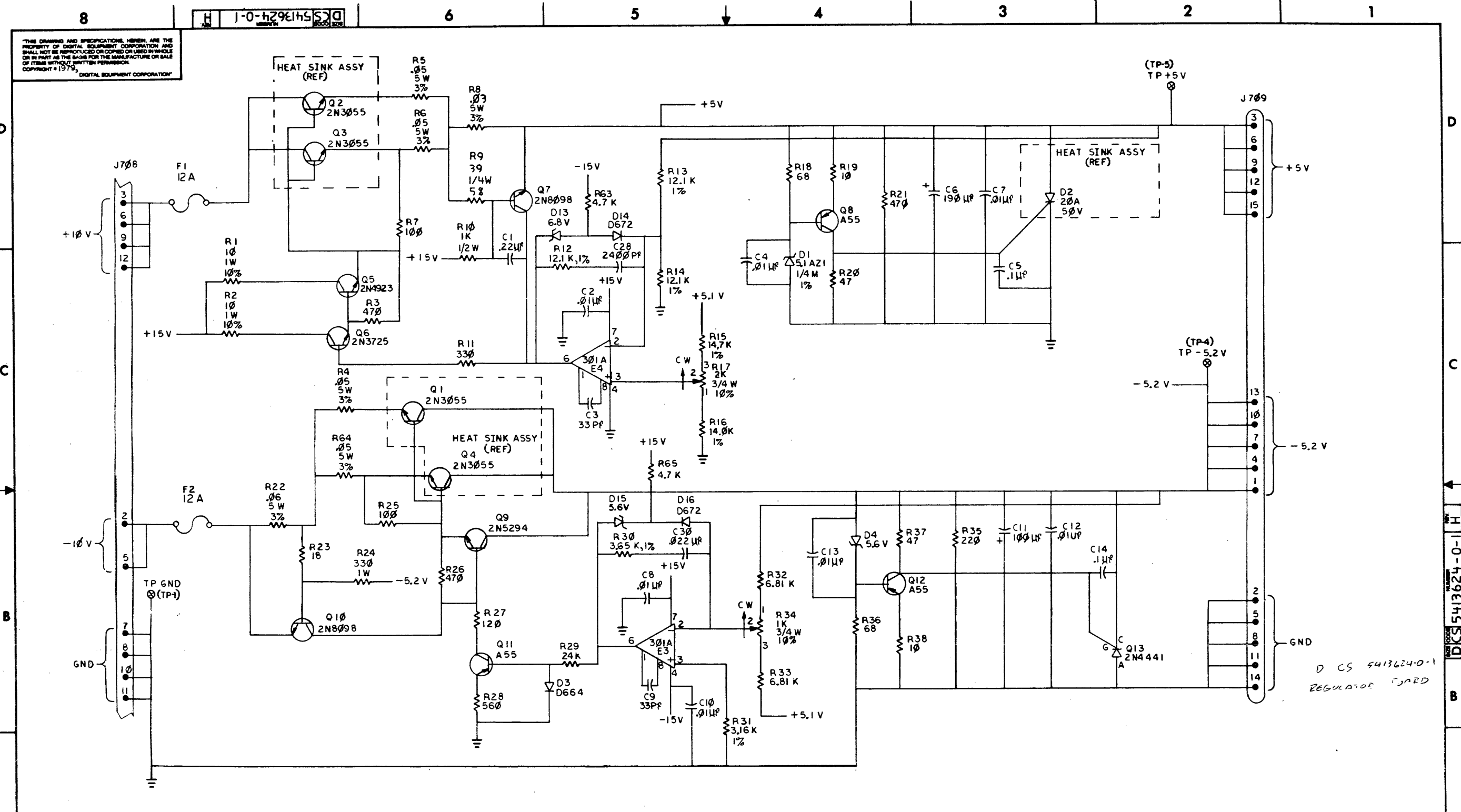
D	I	G	I	T	A	L	TITLE	SECTION A	OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							REGULATOR BOARD					5413624-0-DBP	K

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
78	78	1505819-00	2N 3055 NPN 115WC SI 60 20 Y	4	Q1,Q2,Q3,Q4
79	79	1914473-00	DEC 7815 VOLT REG, FIX +15V	1	E6
80	80	1109465-00	MCR 649P2SCR@ 50V I=20A T041	1	D2
81	81	9009676-00	TERM, SOLDER BARRIER STR	6	
82	82	1213071-02	INSULATOR, RUBBER SILICONE SM	6	
83	83	1215580-00	INSULATOR, MOLDED	6	
84	84	9006025-01	*** THIS ITEM IS NOT USED ***	-	
85	85	9008268-00	COMPOUND, THERMAL JOINT	A/R	
86	86	9006656-00	WASHER, FLAT, .312 O.D. X .156 I	12	
87	87	9009112-02	STANDOFF, P.C. BOARD 6-32 X .250	2	
88	88	9009217-00	POST, WIRE WRAP	5	TP1,TP2,TP3,TP4,TP5
89	89	1102808-00	1N 752A VZ= 5.6 5% .40W	2	D4,D15
90	90	9107256-11	TUBING, THIN WALL, .027ID UL	A/R	
91	91	1317240-00	11.0 K .25 W 1.0 % RN55D-F10	1	R41

92 NOTE: - NOTE 1. INSTALL ITEM 90 (9107256-11) ON BOTH LEADS OF
 93 NOTE: - ITEM 4 (1011683-00).

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							REGULATOR BOARD		K	PL	5413624-0-DBP	K

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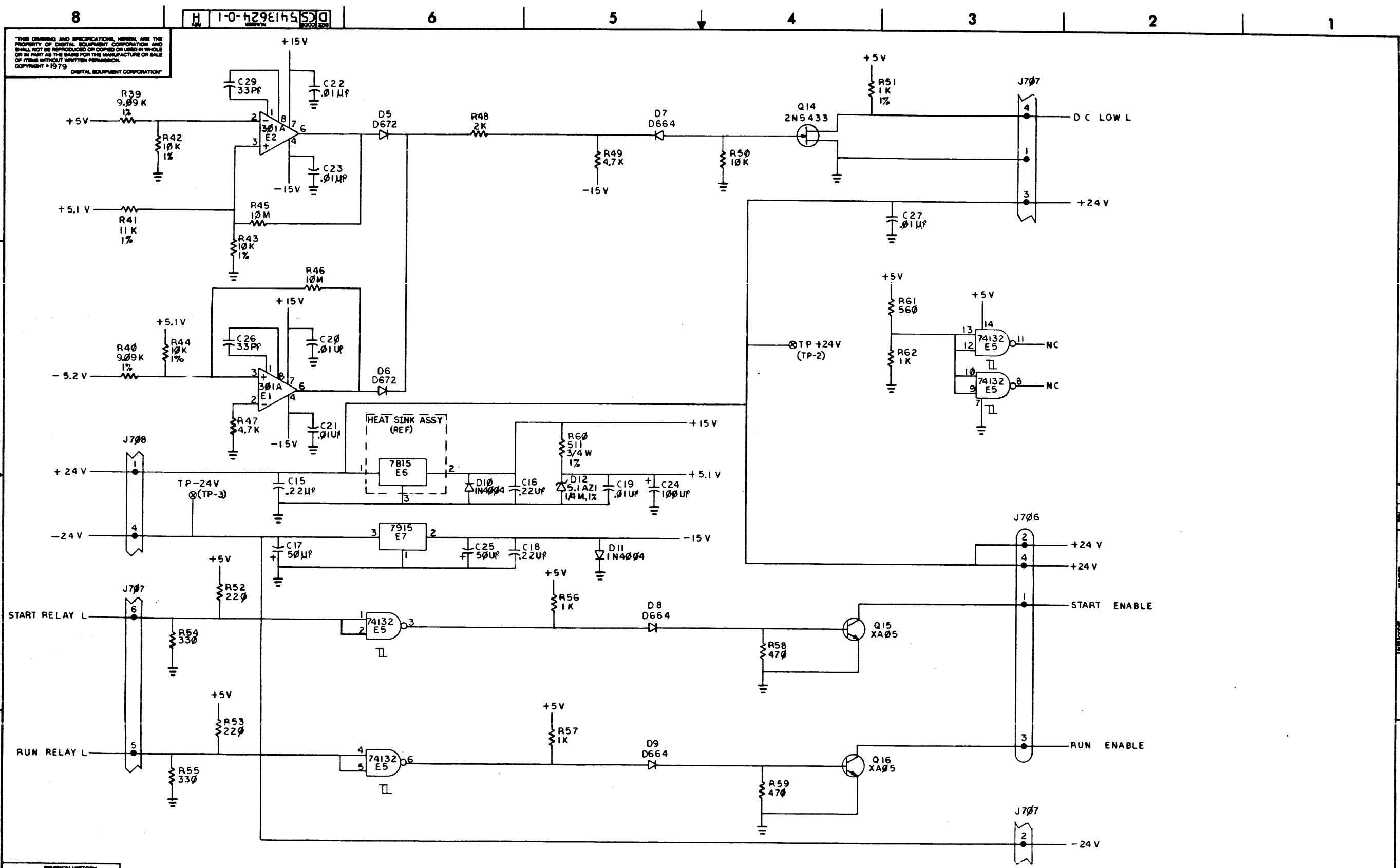


REV.	D	E	F	H
5413624-CX003	J. RINALDIS	J. RINALDIS	B. RAY	T. FALETTE
5413624-CX005	J. RINALDIS	J. RINALDIS	B. RAY	T. FALETTE
5413624-CX006	J. RINALDIS	J. RINALDIS	B. RAY	T. FALETTE
5413624-CX007	J. RINALDIS	J. RINALDIS	B. RAY	T. FALETTE

DESIGNED BY K. DAVIS	DATE 18 APR 79	TITLE REGULATOR BOARD
CHECKED BY A. SIMM	DATE 18 APR 79	DOCUMENT NUMBER D CS 5413624-0-1 H
DESIGNED BY J. RINALDIS	DATE 18 APR 79	
PREPARED BY M. HAMMER	DATE 18 APR 79	SCALE OF 2
APPROVED BY D. WEAVER	DATE 18 APR 79	
PART NUMBER B-00-5413624-0		

DCS 5413624-0-1 H

D CS 5413624-0-1
REGULATOR BOARD



REVISION HISTORY		
DATE	ECO NUMBER	REV.

TITLE (R B 2)
REGULATOR BOARD

DOCUMENT NUMBER		
SIZE CODE	NUMBER	REV.
DCS	5413624-0-1	H

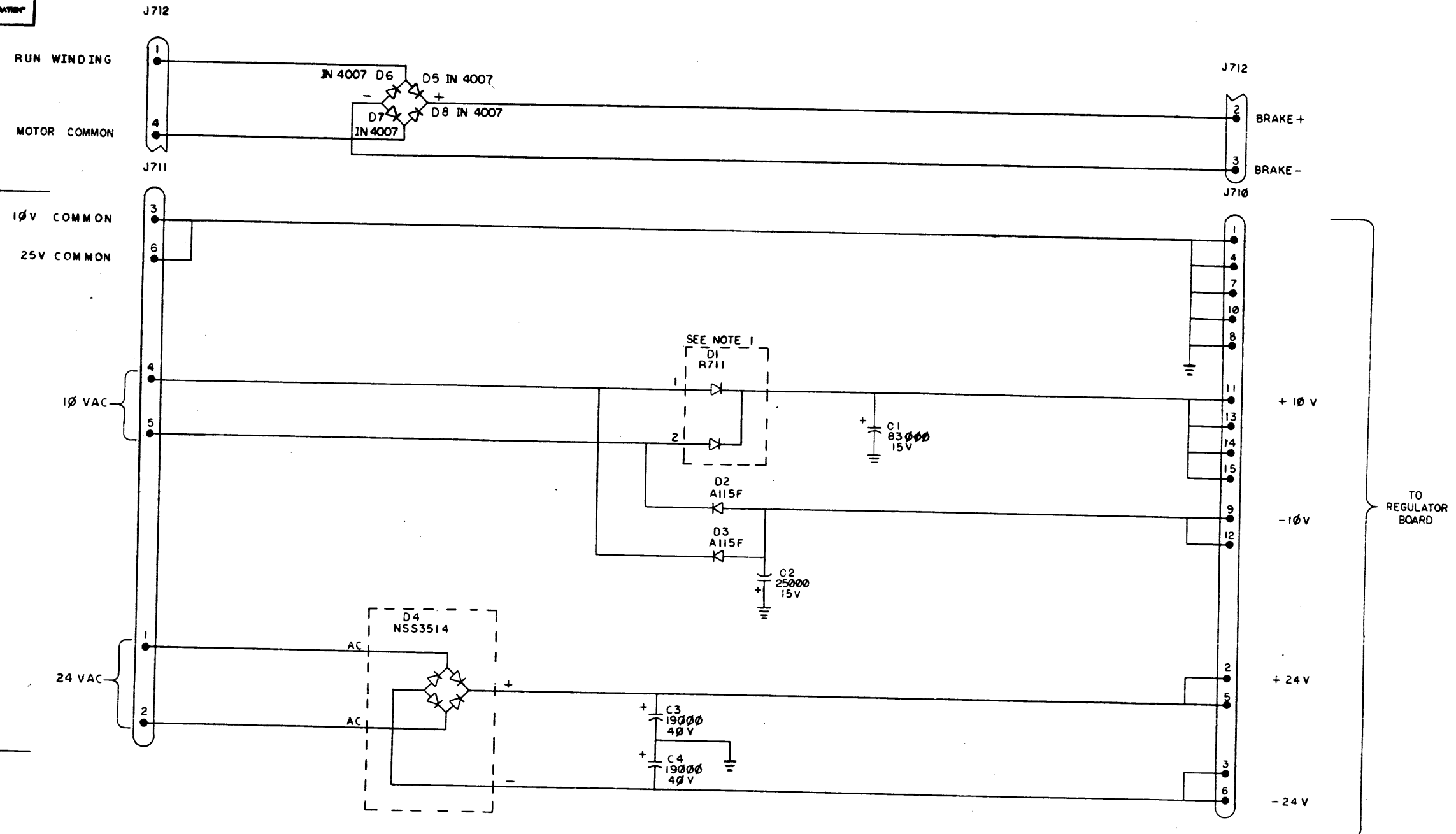
LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
1	1	E-MD-5013625-0-0	5013625-00	DRILL & ETCH BD	1	
2	2		1116474-00	1N 4007 PIV=1000 I=1A D041	4	D5,D6,D7,D8
3	3		9009565-00	SPACER, NYLON, .170 ID X .255 OD	4	
4	4		1016238-00	83,000 MFD 15V +75-10% AL EL	1	C1
5	5		1016239-00	19,000 MFD 40V +75-10% AL EL	2	C3,C4
6	6		1016240-00	25,000 MFD 15V +75-10% AL EL	1	C2
7	7		1110714-00	NSS3514 FWR@400 I=20A (TRW)	1	D4
8	8		1112594-00	A115F PIV= 50 I= 3A	2	D2,D3
9	9		1112723-00	RECT ASSY@100V & 25A	1	D1
10	10		1210012-01	HEAT SINKS,TO-3 1.810X1.81	1	
11	11		1212297-01	MATE-N-LOK 04PIN(1X04).250CC HDR	1	J712
12	12		1212297-04	MATE-N-LOK 15PIN(2X08).250CC HDR	1	J710
13	13		1212297-07	MATE-N-LOK 06PIN(2X03).250CC HDR	1	J711
14	14		1213071-02	INSULATOR,RUBBER SILICONE SM	1	
15	15		9007793-01	SCREW,MACH PAN PHIL 6-	6	
16	16		9006070-01	SCREW,MACH PAN PHIL 10-	8	
17	17		9008185-00	NUT,KEP 6-32X 1/4 AF	6	
18	18		9006656-00	WASHER,FLAT STEEL	5	
19	19		9009676-00	TERM,SOLDER BARRIER STR	1	
20	20		9006636-00	WASHER,LOCK INTERNAL STEEL	8	
21	21		1215580-00	INSULATOR,MOLDED	1	
22	22		9008285-00	EYELET,ROLLED 0.1210DX0.218	1	
23	23		9008219-00	TERM,TAB .250TAB .130STUD MN	1	

REVISION HISTORY		BASIC PART NO: 5413626		DRN:	ART SIMM	DATE: 10-DEC-79	D I G I T A L		
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	P.KENDRICK	DATE: 2-JAN-80	TITLE	PARTS LIST	
---	INITIAL	C	SECTION.VARIATION INDEX				CAPACITOR BOARD		
JR	5413626-CX01A	D	[A] 00						
GN	5413626-CX002	E	[B]	DES.ENG:	J.DREW	DATE: 9-JAN-80			
BR	5413626-CX003	F	[C]					DOCUMENT NUMBER	
BR	5413626-CX004	H	[D]						
			[E]	RESP.ENG.:	J.RINALDIS	DATE: 9-JAN-80	SIZE	CODE	NUMBER
			[F]						REV
			[G]	MFG.ENG.:	N.HEDENSTEN	DATE: 9-JAN-80	K	PL	5413626-0-DBP
			[H]						H
			[I]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:	FILE NAME:	EDIT #	
			[J]	E-UA-5413626-0-0		# B-DD-5413626-0	Z0493H.PLS	32	
			[K]						
			[L]						
			[M]						
			[N]						

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CS 5413626-0-1

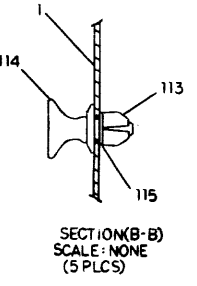
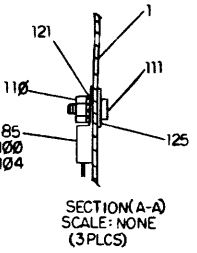
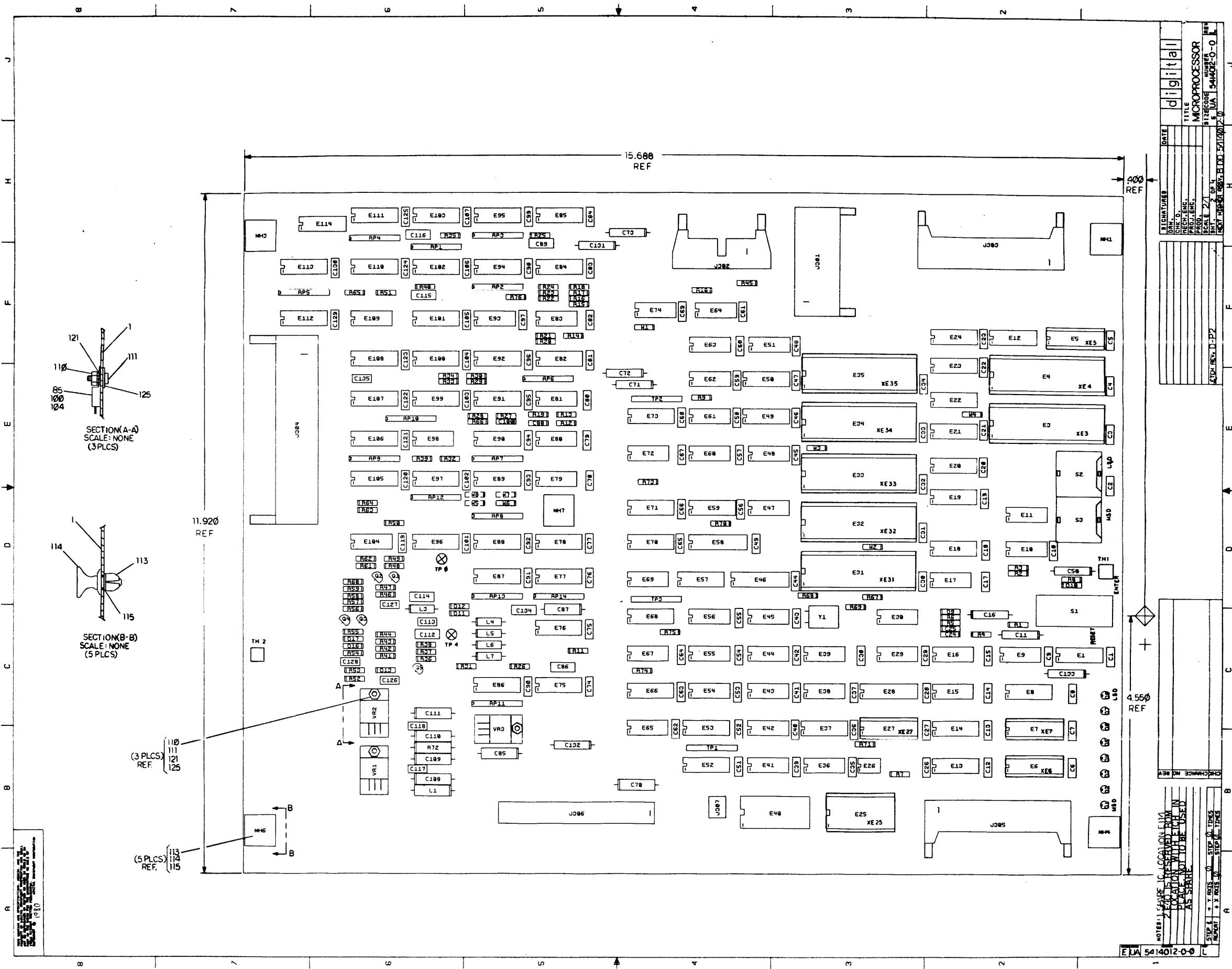


NOTES:

- COMPONENTS NOTED ARE MOUNTED ON HEATSINK
- UNLESS OTHERWISE SPECIFIED:
ALL RESISTORS ARE 1/4W, 5%.
ALL RESISTOR VALUES ARE IN OHMS.
ALL CAPACITOR VALUES ARE IN MICROFARADS.
ALL DIODES ARE IN4004.

REV.	D	E	F	H
1	J. RINALDIS	G. NORDBERG	B. RAY	B. RAY
2	K. DAVIS			
3				
4				
5				

THIRD ANGLE PROJECTION	DRN. <i>[Signature]</i> 6 FEB 73	FIRST USED ON	<i>[Signature]</i>
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D. <i>[Signature]</i> 13 JAN 73	TITLE	CAPACITOR BOARD
DO NOT SCALE DWG	ENG. <i>[Signature]</i> 1 AUG 72	SIZE CODE	D
MATERIAL	PROZ. ENG. <i>[Signature]</i> 14 FEB 73	NUMBER	CS 5413626-0-1
FINISH	NEXT HIGHER ASSY.	REV.	FH
	SCALE	SIZE	
	SHEET	DIST.	



(3 PLCS) REF. 110, 111, 121, 125

(5 PLCS) REF. 113, 114, 115

DATE	10/1/77
SIGNATURES	
DRN	
CHK'D	
APP'D	
DATE	
SCALE	2/1
TITLE	digital
NUMBER	541402-0-0
REV	
DESCRIPTION	
CHANGE NO	
DATE	
BY	
STEP 1	
STEP 2	
STEP 3	
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STEP 95	
STEP 96	
STEP 97	
STEP 98	
STEP 99	
STEP 100	

NOTES: 1. SCALE IS LOCAL ON LHM
2. LOCATION IS FROM
3. LOCATION IS FROM
4. PLACE NOT TO BE USED
5. AS SHOWN

STEP 1 → Y AXIS 0
STEP 2 → Y AXIS 1
STEP 3 → Y AXIS 2
STEP 4 → X AXIS 0
STEP 5 → X AXIS 1
STEP 6 → X AXIS 2

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ECO 5414012-CX003

WIRE ADDS - 24 AWG (SIDE 1)

3-1. FROM J306 PIN 7 (AT BOTTOM OF BOARD) TO RIGHT SIDE OF ETCH CUT (3-1) AT TOP OF BOARD. (SEE EC-5014011-0-0, SH. 2)

WIRE ADDS - 30 AWG (SIDE 1)

- 3-2. FROM FEED-THRU AT E67 ABOVE PIN 10 TO E65-11.
- 3-3. FROM FEED-THRU AT E67 ABOVE PIN 14 TO E65-13.
- 3-4. FROM E65-12 TO E65-14.

ECO 5414012-CX03A

3A-1. ON COMPONENT SIDE OF BOARD REMOVE C87 (1004813-00) AND REINSTALL WITH POSITIVE LEAD ADJACENT TO E76 PIN 16 AND CASE LEAD ADJACENT TO E76 PIN 9.

3A-2. REMOVE ETCH POLARITY SIGN AT THE RIGHT SIDE OF C87 FROM PCB.

3A-3. APPLY ADHESIVE (9009157-00) AS REQUIRED TO PCB JUST ABOVE VR2 (1914517-01) MOUNTING TAB. PLACE MYLAR (4850018-01) ON ADHESIVE AND UNDER MOUNTING TAB TO PREVENT POSSIBLE CONTACT WITH GROUND RUN, AS SHOWN.

3A-4. APPLY ADHESIVE (9009157-00) AS REQUIRED TO PCB UNDER LEAD OF LI (1612946-03) CLOSE TO J306. PLACE MYLAR (4850018-01) ON ADHESIVE AND UNDER LI LEAD AS SHOWN TO PREVENT POSSIBLE CONTACT WITH GROUND.

3A-5. APPLY ADHESIVE (9009157-00) AS REQUIRED TO PCB UNDER Y1 (1812396-01) LIFTING GROUND CASE END IF NECESSARY. PLACE MYLAR (4890018-01) ON ADHESIVE AND UNDER Y1 AS SHOWN TO PREVENT POSSIBLE CONTACT WITH GROUND.

3A-6. APPLY ADHESIVE (9009157-00) AS REQUIRED TO PCB UNDER S1 (1210266-00) REMOUNTING SWITCH AS REQUIRED. PLACE MYLAR (4850018-01) ON ADHESIVE AND UNDER S1 AS SHOWN TO PREVENT POSSIBLE SHORTING OF +5 TO GROUND.

ECO 5414012-CX004

WIRE ADDS - 30 AWG (SIDE 1)

4-3. FROM PTH BELOW AND BETWEEN PINS 6 AND 7 OF E10 TO E10 PIN 7 (GND).

4-4. FROM E10 PIN 8 TO PTH ABOVE E31 PIN 9. ROUTE WIRE UNDER SOCKET AS SHOWN.

ECO 5414012-CX007

COMPONENT ADDS (SIDE 1)

7-3. INSERT 74LS74 (1912824-00) IN SPARE POSITION E114.

WIRE ADDS - 30 AWG - (SIDE 1)

7-4. ADD WIRE FROM E114-7 TO E85-8.

7-5. ADD WIRE FROM E114-4 TO E114-14 DO NOT SOLDER.

7-6. ADD WIRE FROM E114-2 TO E114-1 DO NOT SOLDER.

7-7. ADD WIRE FROM E114-14 SOLDER NOW TO E85-16.

7-8. ADD WIRE TO PTH BETWEEN Y1 AND R68 ACROSS FROM E31-3 TO PTH ABOVE AND TO THE RIGHT OF E30-8.

7-9. ADD WIRE FROM E114-5 TO PTH TO RIGHT OF Y1 (WHICH GOES TO E31-7).

7-10. ADD WIRE FROM E61-11 TO E114-1, NOW SOLDER

7-11. REMOVE E32 FROM SOCKET. ADD WIRE FROM ETCH WHICH RUNS BETWEEN E32-3 AND 4 (THAT GOES TO E31-37) TO E114-3.

7-12. AFTER REWORK STEPS 7-1 THRU 7-11 ARE COMPLETE, MARK MODULE WITH LATEST CX REV (J) PER ECO-5414012-CX007.

ECO 5414012-CX008

WIRE ADDS - 30 AWG - (SIDE 2)

8-1. FROM E34-31 TO E11-12 (DO NOT SOLDER UNTIL REWORK STEP 8-2 IS ADDED), APPLY ADHESIVE (4901259-00).

WIRE ADDS - 30 AWG - (SIDE 1)

8-2. FROM E11-12 TO E19-8 SOLDER, (SEE REWORK STEP 8-1), (THIS WIRE IS TO BE REMOVED FOR 50 HZ).

8-3. ADD LABEL (3615710-00) TO LOWER LEFT CORNER OF (SIDE 1) SEE SHEET 1 OF E-UA-5414012-0-0. LABEL (3615710-00) OR EQUIVALENT, WITH THIS VERBAGE: "WIRE FROM E11-12 TO E19-8 IS TO BE REMOVED FOR 50 HZ DRIVES."

8-4. WHEN THE ABOVE REWORK IS COMPLETED MARK MODULE CS REV L.

ECO 5414012-CX009

WIRE ADDS - 30 AWG - (SIDE 1)

9-2. ADD WIRE FROM PTH (WHICH RUNS TO E56-2) TO E79-6.

9-3. ADD WIRE FROM E30-13, GO THROUGH PTH ABOVE AND TO THE RIGHT CORNER OF J305. MAKE CONNECTION ON SIDE 2 AT J305-3. NOTE: APPLY ADHESIVE TO WIRE AT PTH FOR STRAIN RELIEF.

9-4. ADD WIRE FROM E30-13 TO E79-5.

9-5. ADD WIRE FROM E79-4 TO E79-3.

9-6. ADD WIRE FROM E79-1 TO E79-2.

9-7. ADD WIRE FROM E79-2 TO PTH (WHICH RUNS TO E56-4).

9-8. WHEN ABOVE REWORK IS COMPLETED, MARK MODULE CS REV M.

REV	CHG	NO	REV

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
				00		
1	D-MD-5414012-0-0	5014011-00	TITLE MICRO PROCESSOR	1		
2		1000076-00	39 MFD 10V 10% S.TANT	1		C53
3		1001610-00	.01 MFD 50V +80-20% Z5U CER	112		C1-C29,C33-C38,C41-C49,C54-C65, C67-C79,C81-C83,C85-C92, C94-C102,C104,C109,C111,C112, C116,C118-C129,C132,C133, C135-C138
4		1004813-00	10 MFD 20V 10% S.TANT	2		C39,C40
5		1005306-00	6.8MFD 35V 10% S.TANT	1		C66
6		1013466-05	56.0 MMF 50V 5% CER	1		C114
7		1013466-07	220.0 MMF 50V 5% CER	2		C84,C93
8		1013466-09	1000.0 MMF 50V 10% X7R CER	3		C50,C51,C134
9		1013466-16	.010 MFD 50V 10% X7R CER	1		C106
10		1013466-18	330.0 MMF 50V 5% CER	2		C107,C108
11		1013466-19	470.0 MMF 50V 5% CER	1		C103
12		1013466-23	22.0 MMF 50V 5% CER	1		C113
13		1016555-00	22 MFD 50V +50-10% AL EL	2		C115,C130
14		1017472-00	10 MFD 35V +50-10% AL EL	9		C30,C31,C32,C52,C80,C105,C110, C117,C131
15		1100114-00	D 664 QS\75PCB PIV= 25V SP	2		D9,D10
16		1105873-00	4M5-1AZ1 VZ= 5.1 1% .400W	1		D13
17		1109517-00	1N 914B TR= 4NS PIV= 75V SY	2		D14,D15
18		1112689-00	LED .8MCD@16MA VF=5V	8		D1-D8
19		1116824-00	1N 5456C 30V 400MW 2% VARACTOR D	2		D11,D12
20		1210266-00	SW,TOG 1PDT (ON)-OFF-(ON) 0.4	1		S1
21		1212204-12	PCB HEADER 02PIN(1X02).156CC 90D	1		J307
22		1212204-14	PCB HEADER 18PIN(1X18).156CC 90D	1		J306
23		1216458-00	SW,ROT 1P16POS 28VDC/3A BINA	2		S2,S3
24		1216832-00	PCB,HEADER 20POS(2X10).100CC 90D	1		J302
25		1216832-01	PCB,HEADER 26POS(2X13).100CC 90D	1		J301

REVISION HISTORY		BASIC PART NO: 5414012		DRN:	DATE:	DIGITAL				
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	DATE:	TITLE	PARTS LIST			
	5414012-CX011	L	SECTION VARIATION INDEX	RON MICHAUD	07-JUL-82	MICROPROCESSOR				
			[A] 00							
			[B]							
			[C]	CRAIG SCHEELE	07-JUL-82					
			[D]							
			[E]							
			[F]	CRAIG SCHEELE	07-JUL-82					
			[G]							
			[H]							
			[J]							
			[K]	AHMAD KASSAK	07-JUL-82		K	PL	5414012-0-DBP	L
			[L]							
			[M]							
			[N]							
		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #		
		D-UA-5414012-0-0		#B-DD-5414012-0		Z0509L.PLS		9		

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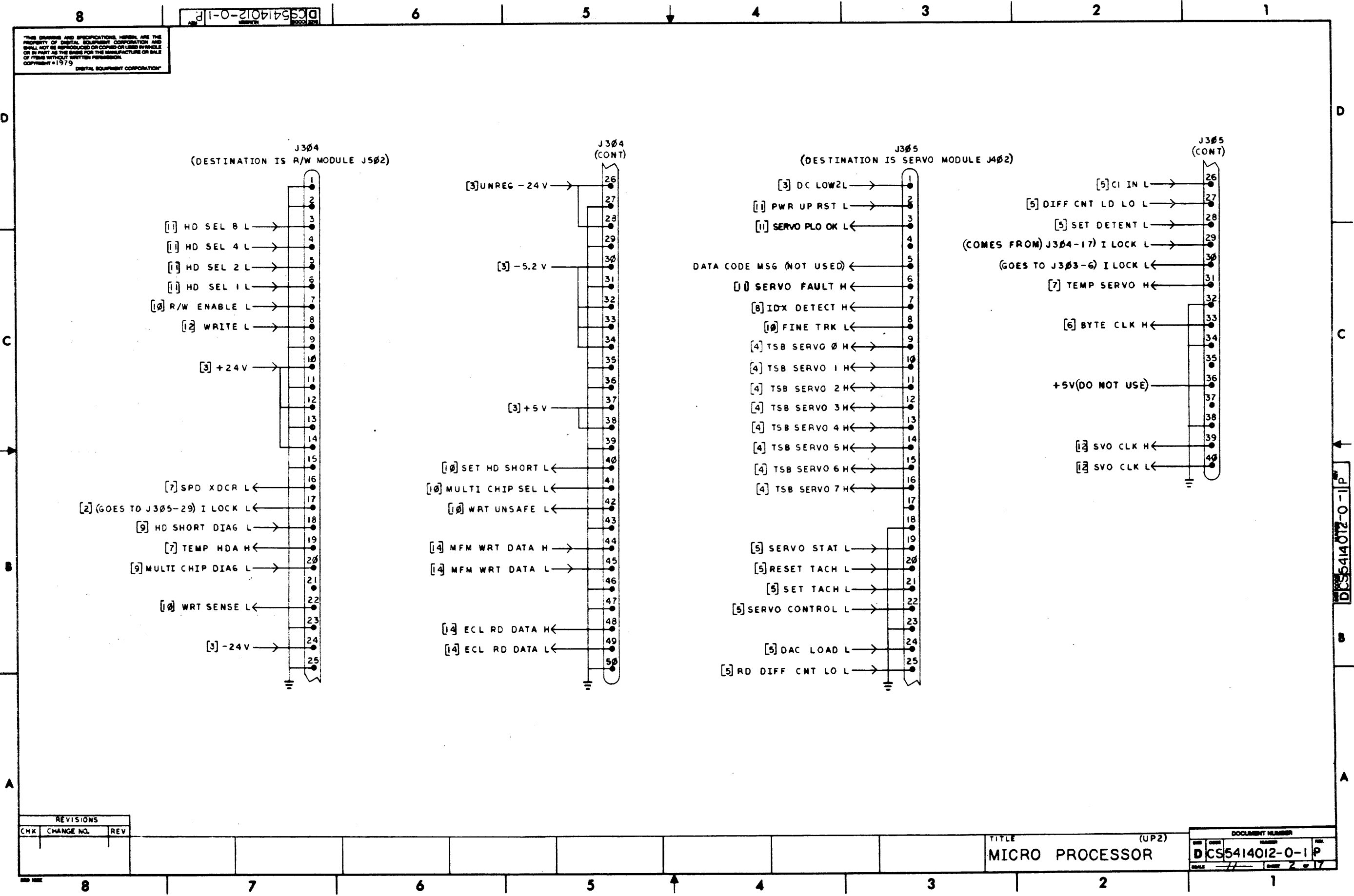
LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
				00		
26	26	1216832-02	PCB,HEADER 40POS(2X20).100CC 90D	2		J303,J305
27	27	1216832-03	PCB,HEADER 50POS(2X25).100CC 90D	1		J304
28	28	1300005-03	R NETWORK 13-10K 5.0 % 14PIN	2		E6,E43
29	29	1300202-00	47.0 .25 W 5.0 % CC	5		R52,R53,R55,R67,R69
30	30	1300229-00	100.0 .25 W 5.0 % CC	4		R23,R60,R61,R64
31	31	1300250-00	150.0 .25 W 5.0 % CC	2		R42,R45
32	32	1300271-00	220.0 .25 W 5.0 % CC	4		R12,R15,R27,R29
33	33	1300295-00	330.0 .25 W 5.0 % CC	3		R28,R30,R37
34	34	1300316-00	470.0 .25 W 5.0 % CC	9		R2,R3,R5,R6,R20,R38,R39,R54,R65
35	35	1300365-00	1.0 K .25 W 5.0 % CC	13		R1,R4,R7,R8,R9,R17,R21,R22,R31, CONT R46,R71,R72,R78
36	36	1300417-00	2.20 K .25 W 5.0 % CC	2		R76,R77
37	37	1300432-00	3.0 K .25 W 5.0 % CC	1		R56
38	38	1300447-00	4.70 K .25 W 5.0 % CC	4		R24,R25,R47,R48
39	39	1300479-00	10.0 K .25 W 5.0 % CC	1		R16
40	40	1300496-00	15.0 K .25 W 5.0 % CC	2		R10,R11
41	41	1301401-00	750.0 .25 W 5.0 % CC	2		R18,R19
42	42	1301422-00	7.50 K .25 W 5.0 % CC	2		R13,R14
43	43	1301424-00	680.0 .25 W 5.0 % CC	2		R58,R59
44	44	1301425-00	300.0 .25 W 5.0 % CC	2		R49,R50
45	45	1301477-00	82.0 .25 W 5.0 % CC	4		R40,R41,R43,R44
46	46	1301948-00	49.90 .50 W 1.0 % RN60C-F 5	1		R51
47	47	1302177-00	47.0 K .25 W 5.0 % CC	1		R32
48	48	1302411-00	511.0 .25 W 1.0 % RN55D-F10	1		R57
49	49	1302644-00	226.0 .25 W 1.0 % RN55D-F10	1		R33
50	50	1302956-00	196.0 .25 W 1.0 % RN55D-F10	4		R70,R73-R75
51	51	1305124-00	287.0 .25 W 1.0 % RN55D-F10	1		R36
52	52	1305419-00	31.60 K .25 W 1.0 % RN55D-F10	1		R26
53	53	1316254-00	R NETWORK 7-470 2.0 % 8PIN	15		Z1-Z15
54	54	1316736-00	374.0 .25 W 1.0 % RN55D-F10	1		R35
55	55	1316838-00	432.0 .25 W 1.0 % RN55D-F10	1		R34
56	56	1316840-00	931.0 .25 W 1.0 % RN55D-F10	2		R63,R68
57	57	1316841-00	2.05 K .25 W 1.0 % RN55D-F10	2		R62,R66
58	58	1503029-00	2N 3640 PNP 200MW SI	2		Q1,Q2
59	59	1509524-00	2N 3904 NPN 310MW SI 40 40 M	1		Q4
60	60	1509525-00	2N 3906 PNP 310MW SI 40100 Y	1		Q3
61	61	1513489-00	2N 4401 NPN 350MW SI 40 20	1		Q5
62	62	1603358-00	12.0 UH 10% 300MA #DD12.0	1		L5
63	63	1612946-03	5.6 UH 10%	1		L6
64	64	1616291-00	DELAY= 80NS,10TAPS	2		E112,E114
65	65	1616879-00	INDUCTOR 1.12UH 1% 370MA	1		L1
66	66	1812396-01	XTAL 5.0688 MHZ	1		Y1
67	67	1905575-00	7400 NAND GATE-QUAD 2IN	2		E92,E93
68	68	1909004-00	DEC 7402 NOR GATE-QUAD 2IN	1		E20
69	69	1910155-00	DEC 7408 AND GATE,POS.QUAD 2I	2		E27,E83
70	70	1910230-00	74121 ONE SHOT	1		E58
71	71	1910406-00	75451 DRIVER,PERIPH,DUAL,	1		E45
72	72	1910436-00	DEC 74123 ONE SHOT-DUAL,RETRIG	1		E95

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							MICROPROCESSOR		K	PL	5414012-0-DBP	L

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
73	73	1910535-00	74505 INVERTER GATE-HEX 1	1	E69
74	74	1910544-00	74574 FF-D DUAL,EDGE TRIGG	3	E9,E13,E94
75	75	1911036-00	75453 DRIVER,PERIPH,DUAL,	1	E57
76	76	1911195-00	7497 MULTIPLIER,6BIT BINA	1	E15
77	77	1911324-00	7414 INVERTER,HEX 1IN SCH	7	E3,E4,E11,E14,E30,E70,E74
78	78	1911399-00	10102 NOR GATE,QUAD 2IN	4	E97,E102,E109,E118
79	79	1911401-00	10104 AND GATE,QUAD 2IN	4	E88,E98,E111,E113
80	80	1911402-00	10105 OR/NOR GATE,2-3-2	1	E108
81	81	1911403-00	10106 NOR GATE,4-3-3	5	E86,E104,E115,E119,E120
82	82	1911414-00	10124 TTL TO ECL TRNSLTR	3	E78,E96,E103
83	83	1911415-00	10125 ECL TO TTL TRNSLTR	1	E89
84	84	1911416-00	10131 DUAL D MSTR/SL.FF	11	E85,E87,E100,E101,E105,E107, CONT E110,E116,E117,E121,E122
85	85	1912048-05	7812 VOLT REG,FIX +12V	1	VR1
86	86	1912799-00	LS00 NAND-GATE-QUAD 2IN,P	5	E26,E64,E67,E73,E79
87	87	1912803-00	LS04 INVERTER GATE,HEX	4	E46,E50,E56,E80
88	88	1912805-00	LS08 AND GATE-QUAD 2IN,PO	2	E51,E77
89	89	1912808-00	LS11 AND GATE-TRIPLE 3IN	1	E8
90	90	1912815-00	LS30 NAND GATE-SINGLE 8IN	2	E65,E68
91	91	1912816-00	LS32 OR GATE-QUAD 2IN,POS	5	E47,E53,E55,E62,E81
92	92	1912824-00	LS74 FF-D DUAL,EDGE TRIGG	5	E10,E16,E28,E44,E90
93	93	1912829-00	LS86 X-OR GATE-QUAD 2IN	1	E91
94	94	1912842-00	LS138 DECODER-THREE INPUT,	11	E2,E12,E17,E19,E48,E49,E60,E61, CONT E63,E75,E76
95	95	1912847-00	LS157 MUX 1 OF 2(QUAD)	2	E29,E54
96	96	1912849-00	LS161 COUNTER,SYNCHR,4BIT	5	E21,E22-E25
97	97	1912864-00	LS279 LATCH,QUAD-S-R	1	E59
98	98	1913017-00	3046 XSISTOR ARRAY,3 ISOL	1	E106
99	99	1914517-01	7912 VOLT REG,FIX -12V	1	VR2
100	100	1915193-00	LS244 DRIVER,LINE,OCTAL,T	1	E32
101	101	1915218-00	LS245 TRANSCEIVER,BUS,OCT	2	E18,E40
102	102	1915219-00	LS373 FF-D OCTAL-TRANSPARE	4	E1,E41,E52,E66
103	103	1916551-00	7905.2VOLT REG,FIX -5.2V	1	VR3
104	104	1916574-00	10114 RECEIVER,LINE,TRIPL	2	E84,E99
105	105	2114963-00	UP,8-BIT NMOS	1	E31
106	106	2114964-00	RAM 2048 MOSJ-STATIC	2	E37,E38
107	107	23026B9-00	B9-01	1	E34
108	108	23028B9-00	B9-01	1	E35
109	109	23029B9-00	B9-01	1	E36
110	110	23043B9-00	B9-01	1	E39
111	111	23321E2-00	E2-01,E2-02,E2-03	1	E42
112	112	3615710-00	*** THIS ITEM IS NOT USED ***	-	
113	113	9006556-00	NUT,HEX 4-40X .264AF SS/N	3	
114	114	9006632-00	WASHER,LOCK INTERNAL STEEL	3	
115	115	9008301-01	SCREW,MACH PAN PHIL 4-	3	
116	116	9009185-00	JUMPER, WIRE, INSULATED, BLACK B	9	W1-W7,W9,W10
117	117	9009963-00	PLUNGER, 1/4 DIA	5	
118	118	9009966-00	GROMMET,SNAP-IN POLYCARBONAT	5	

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							MICROPROCESSOR		K	PL	5414012-0-DBP	L

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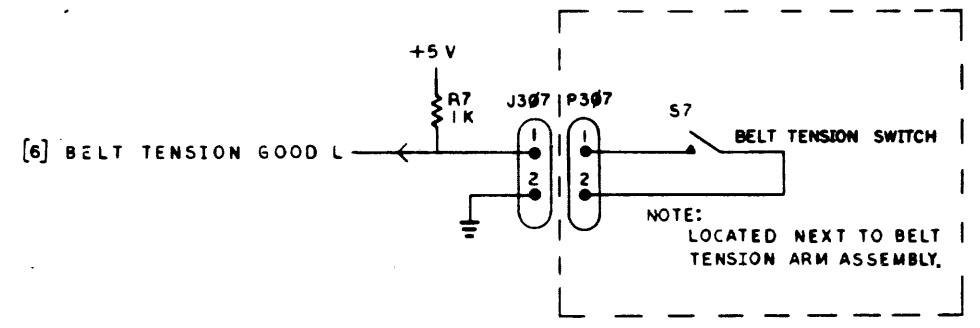
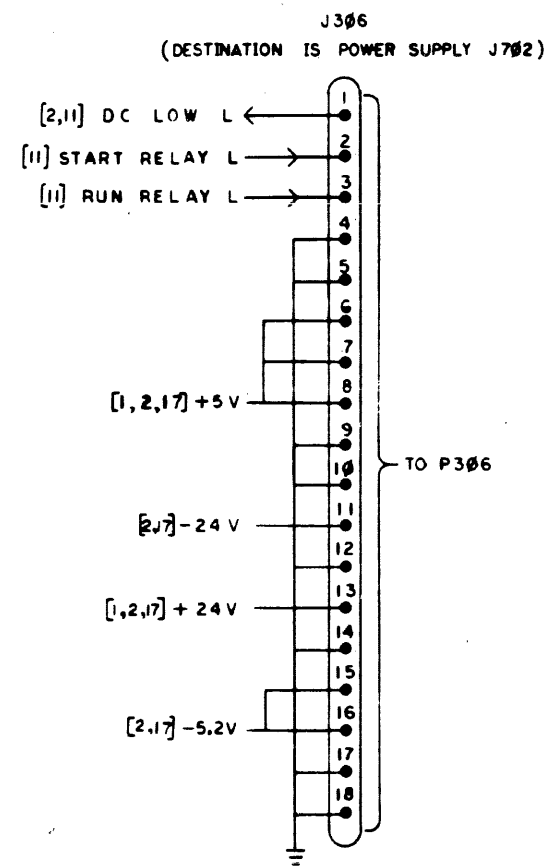
REVISIONS		
CHK	CHANGE NO.	REV

TITLE (UP2)
MICRO PROCESSOR

DOCUMENT NUMBER			
REV	DATE	ISSUED BY	CHKD BY
D	CS5414012-0-1	P	

DCS5414012-0-1 P

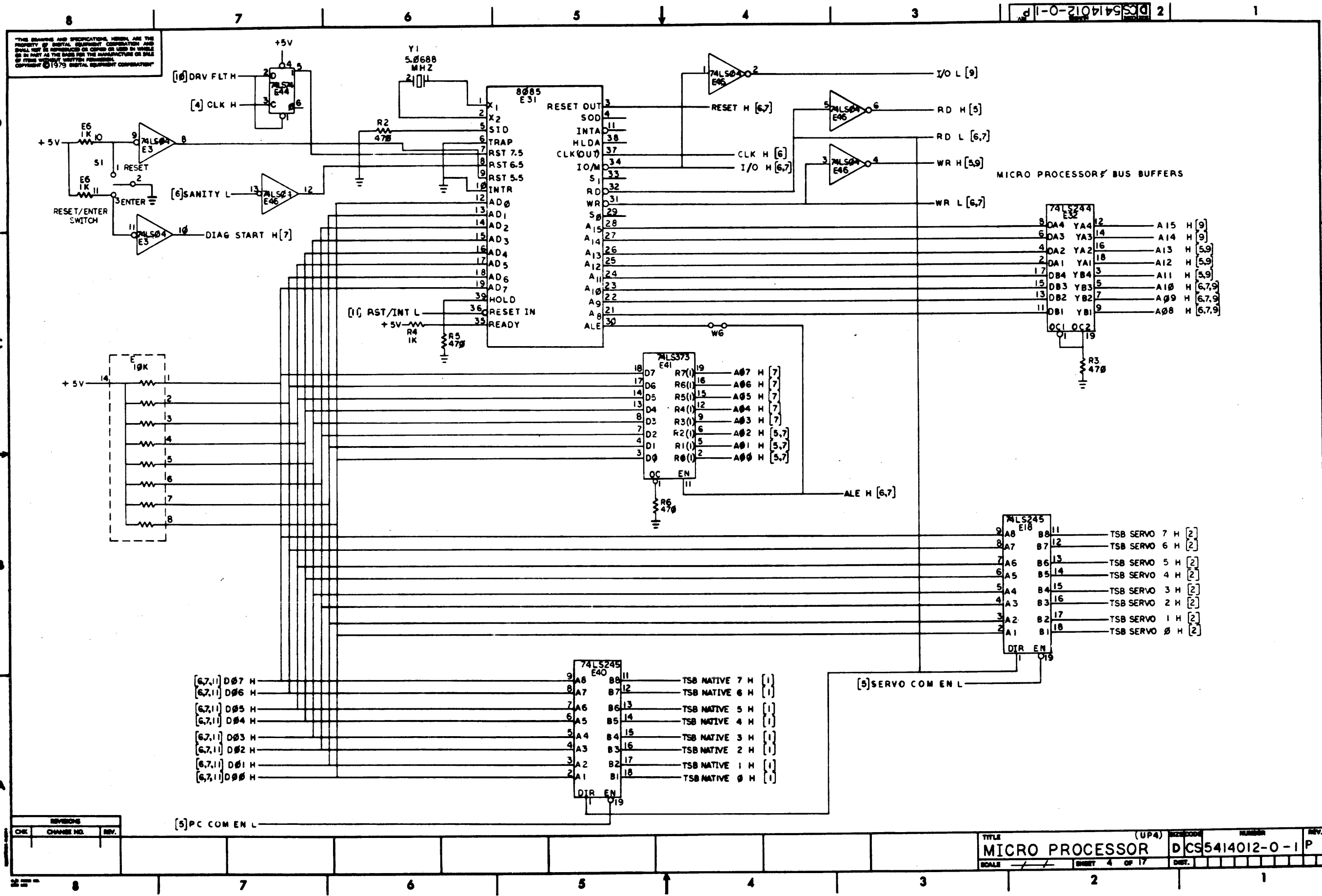
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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	(UP 3)	SIZE CODE	NUMBER	REV.
MICRO PROCESSOR		DCS5414012-0-1	P	
SCALE	1/1	SHEET 3	OF 17	DEVT.

DCS5414012-0-1 P



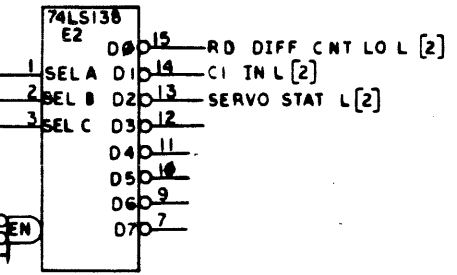
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	(UP4)	REV. NO.	REV.
MICRO PROCESSOR	DCS5414012-0-1 P		
SCALE	SHEET 4 OF 17	DIST.	

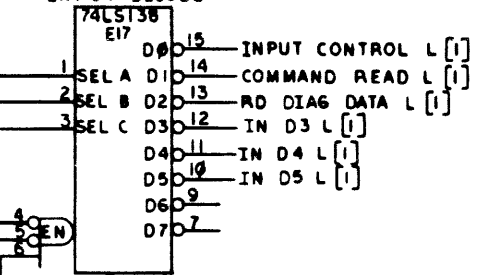
DCS5414012-0-1P

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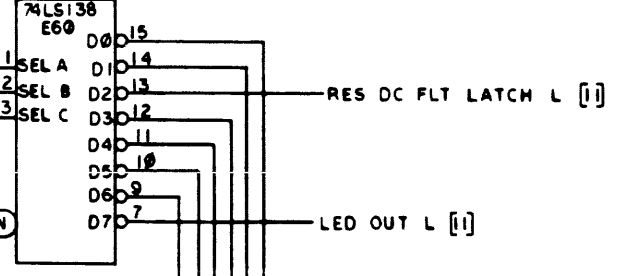
SERVO INPUT DECODE



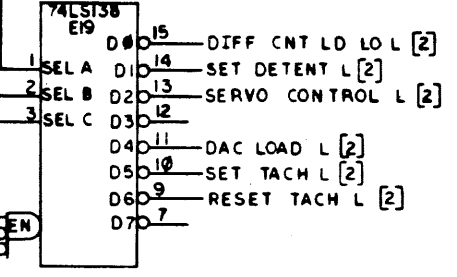
PERSONALITY CARD INPUT DECODE



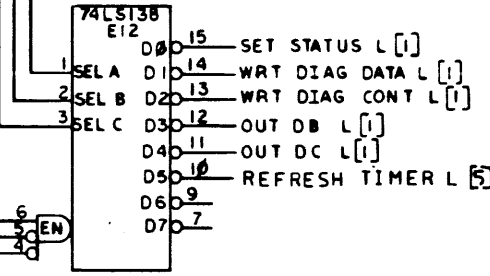
SAFETY/LED DECODE



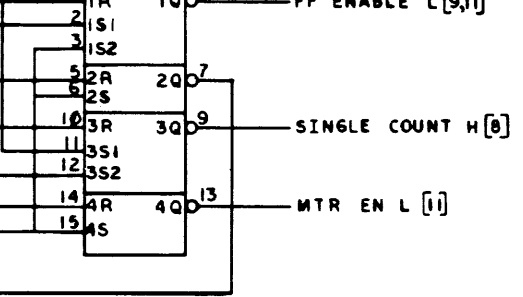
SERVO OUTPUT DECODE



PERSONALITY CARD OUTPUT DECODE



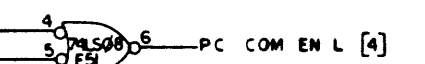
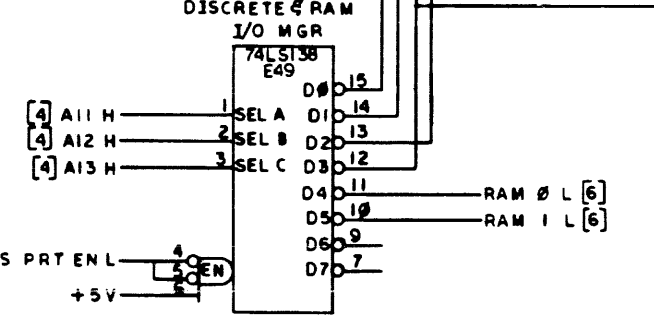
74LS279 E59



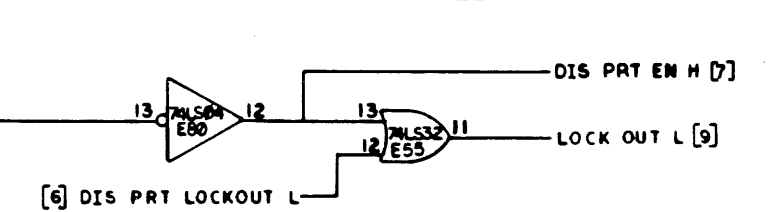
SERVO IN EN L

SERVO OUT EN L

DISCRETE RAM I/O MGR



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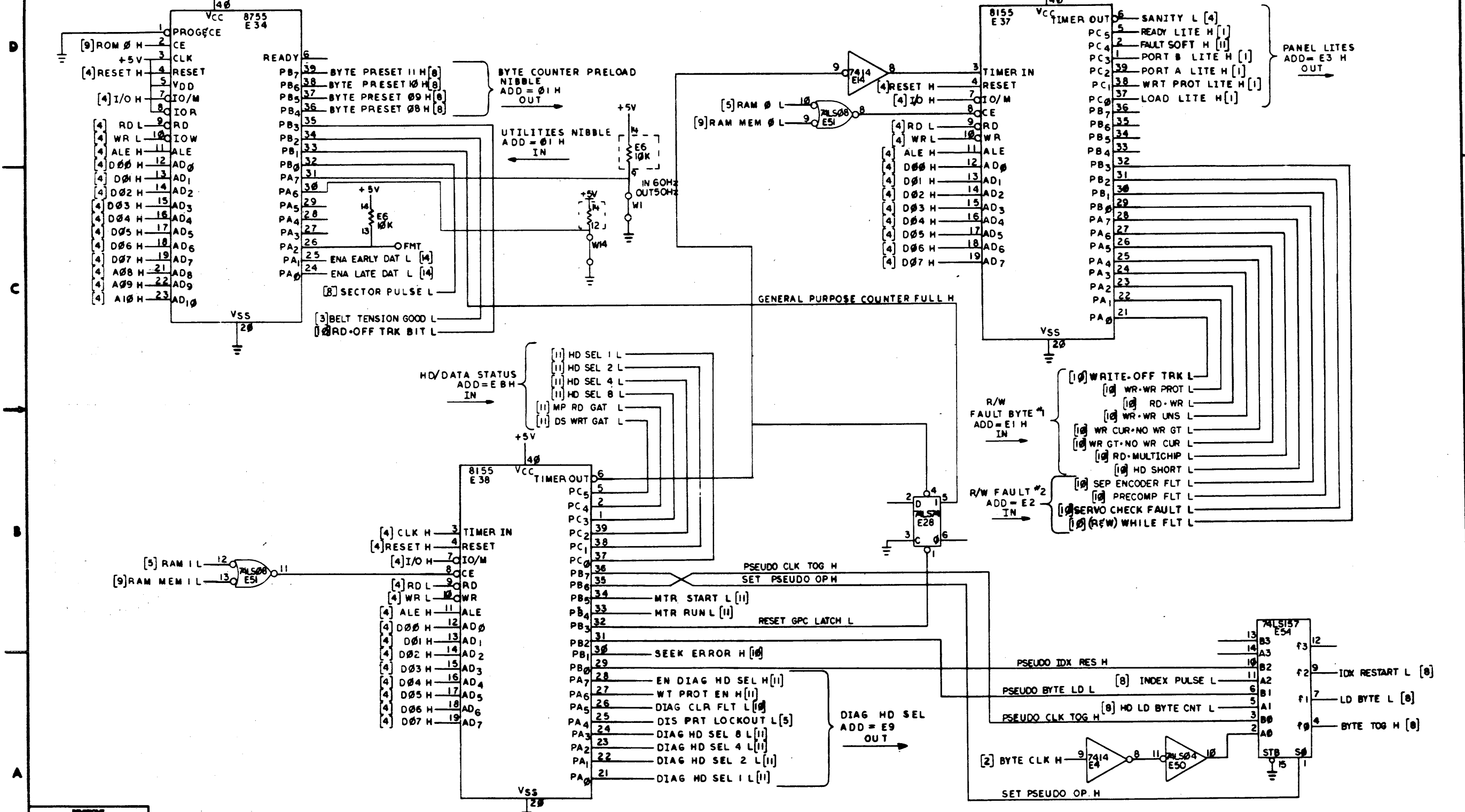


REVISIONS		
CHK	CHANGE NO.	REV

TITLE (UP5)
MICRO PROCESSOR

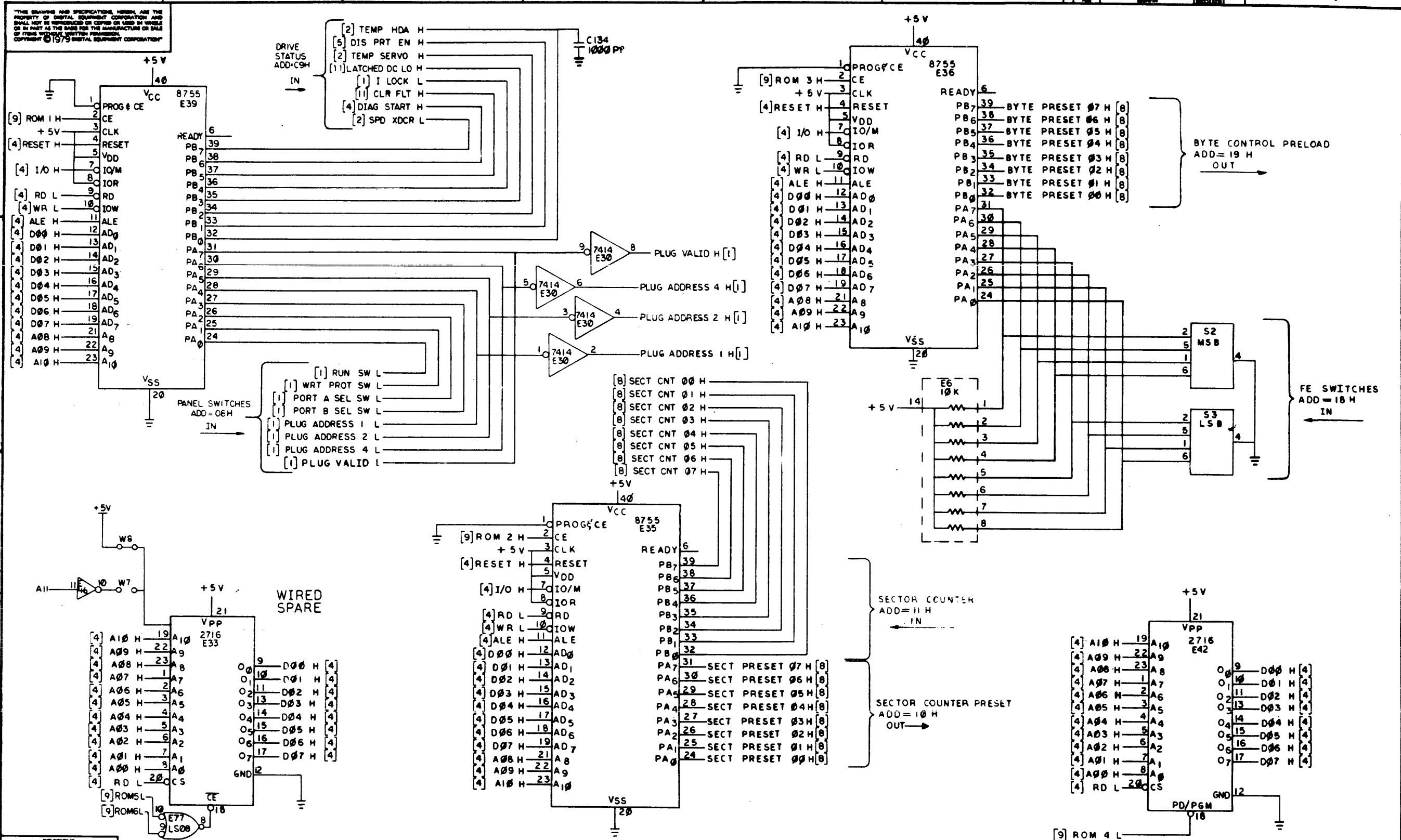
DOCUMENT NUMBER
DCS5414012-0-1 P

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CHK	CHANGE NO.	REV.	MICRO PROCESSOR (UPG)		DCS5414012-0-1		P	

DCS5414012-0-1 (P)

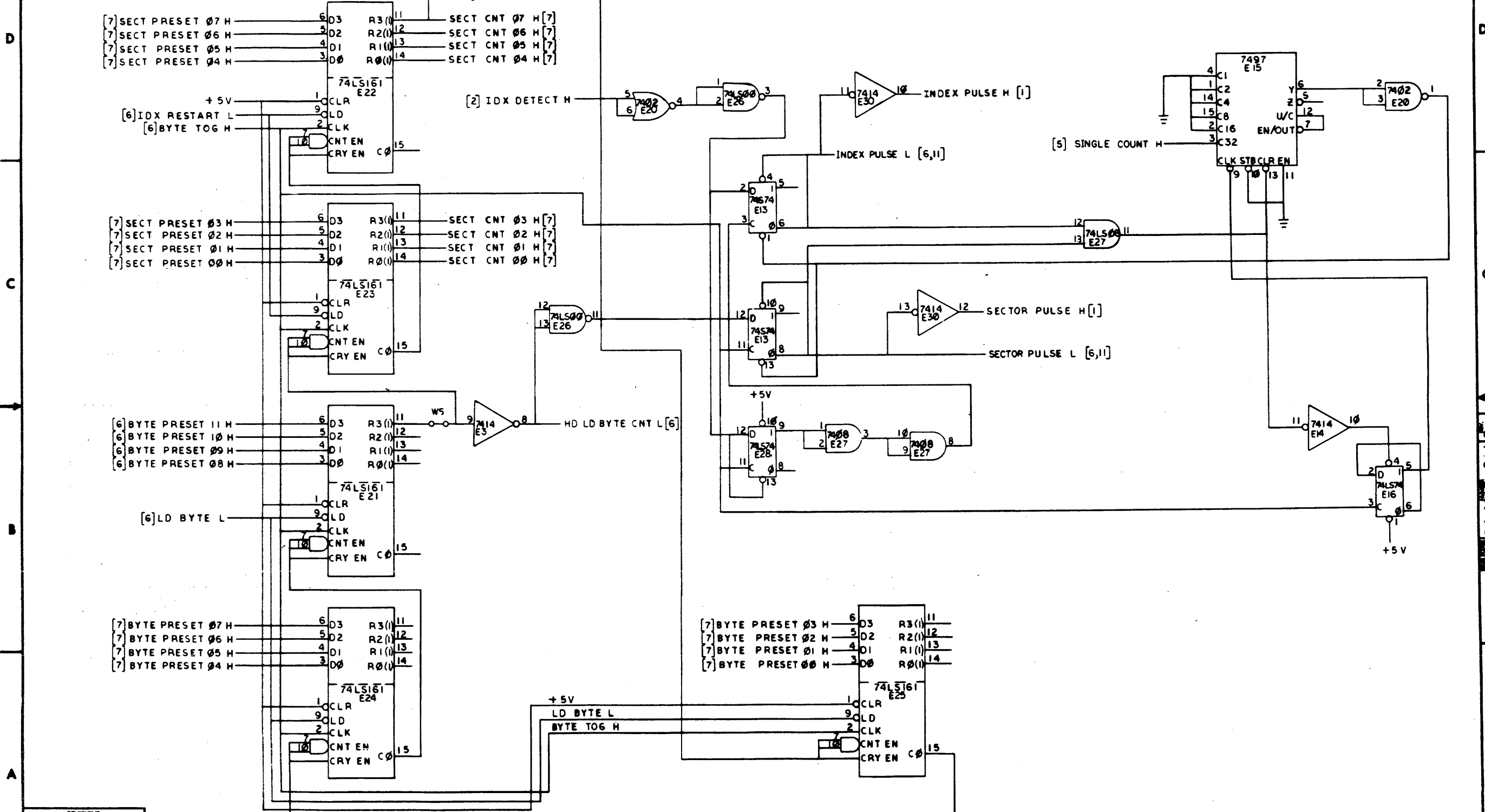


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	(UP7)	SIZE CODE	NUMBER	REV.
MICRO PROCESSOR	DCS5414012-0-1			
SCALE		SHEET	7 OF 17	

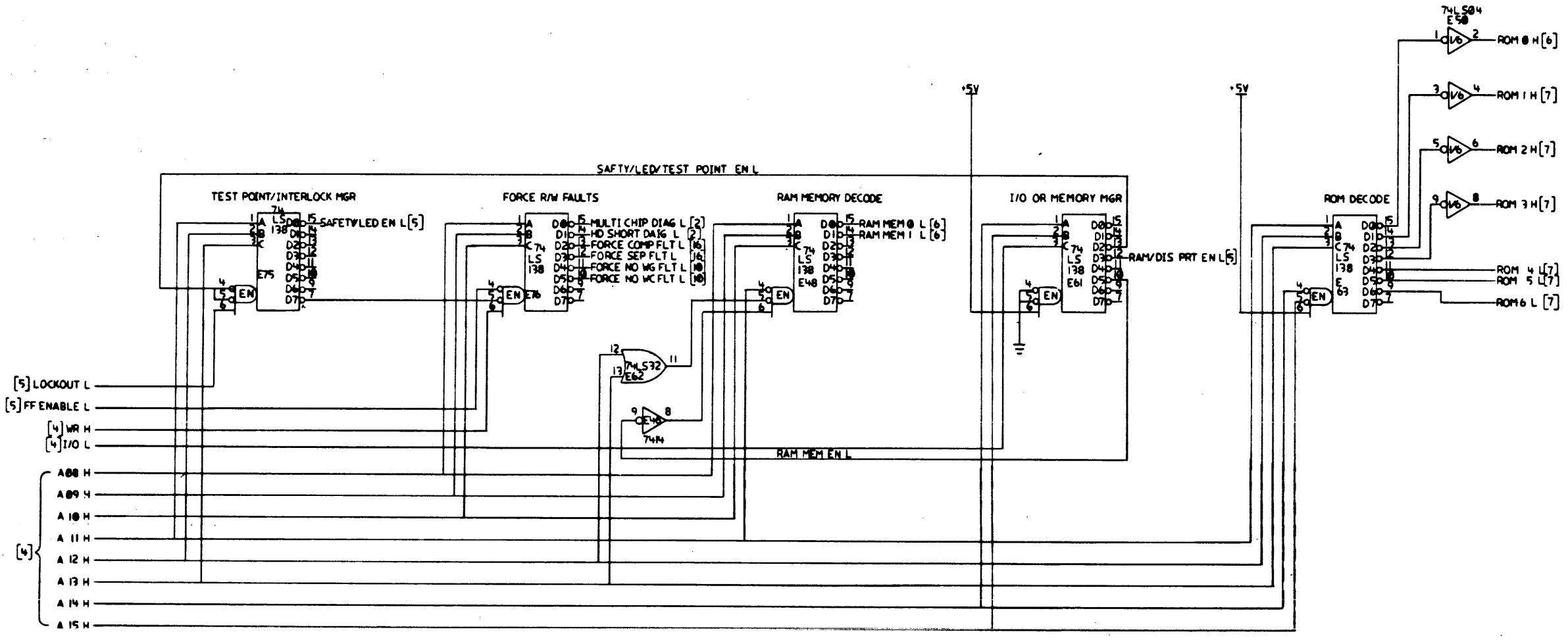
DCS5414012-0-1

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CHK	CHANGE NO.	REV.

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- [5] LOCKOUT L
- [5] FFENABLE L
- [4] WR H
- [4] I/O L
- [4] A00 H
- [4] A09 H
- [4] A10 H
- [4] A11 H
- [4] A12 H
- [4] A13 H
- [4] A14 H
- [4] A15 H

REVISION HISTORY		
DATE	ISS NUMBER	REV.

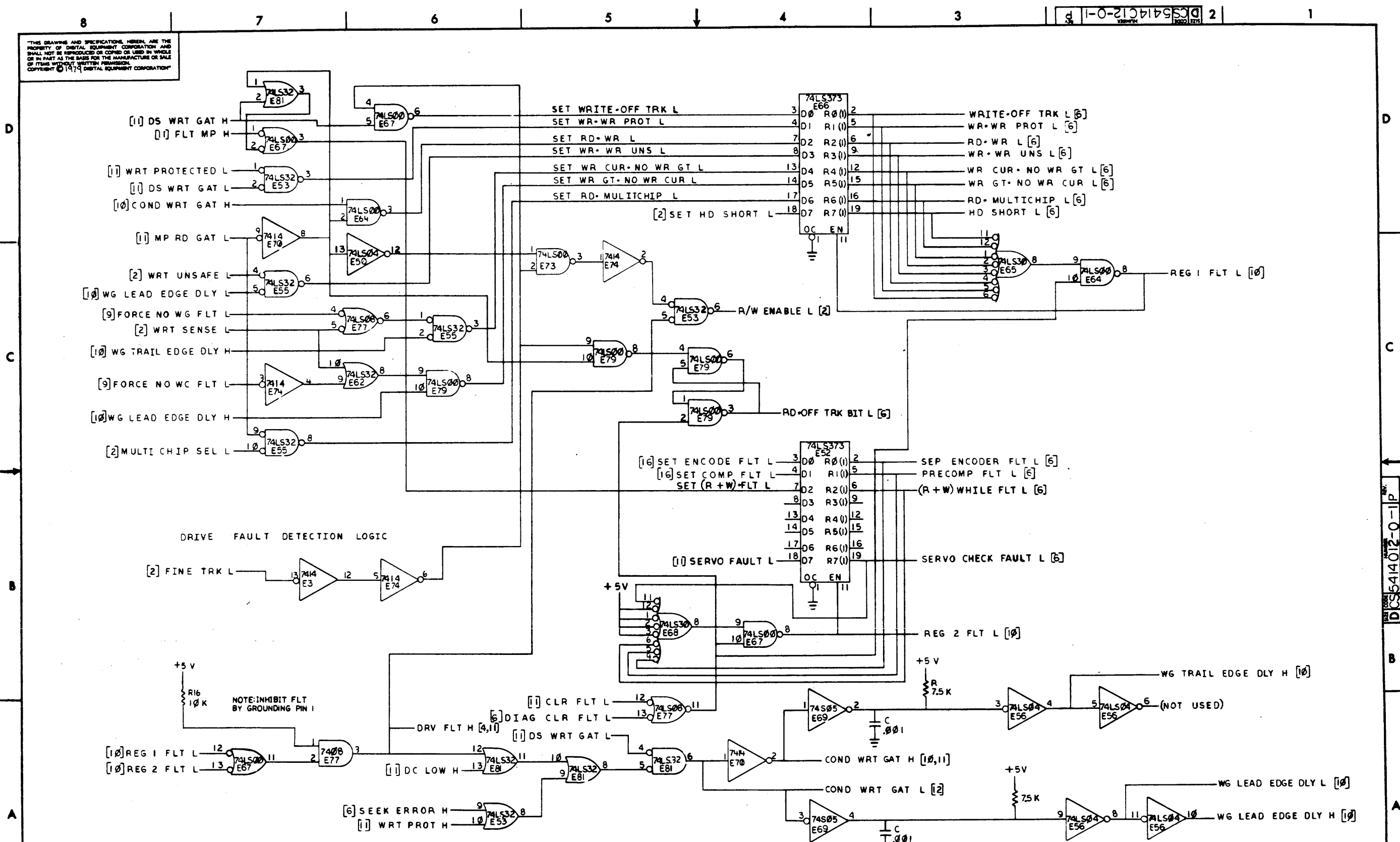
TITLE
 MICRO PROCESSOR

DOCUMENT NUMBER		
ISS CODE	NUMBER	REV.
DCS	544012-0-1	P

SCALE:
 SHEET 6 of 17

DCS 544012-0-1 P

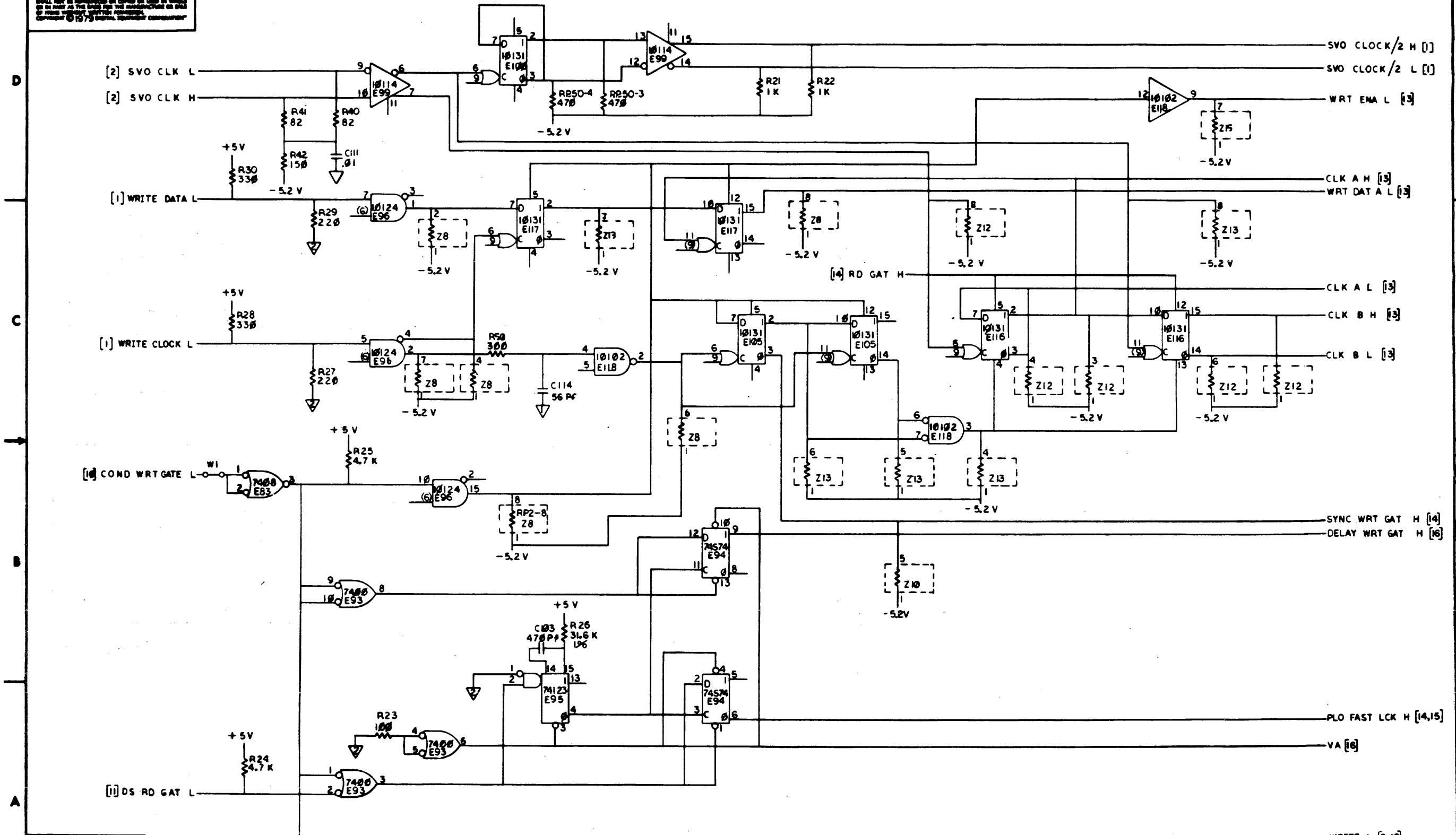
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REVISIONS		
CHK	CHANGE NO.	REV.

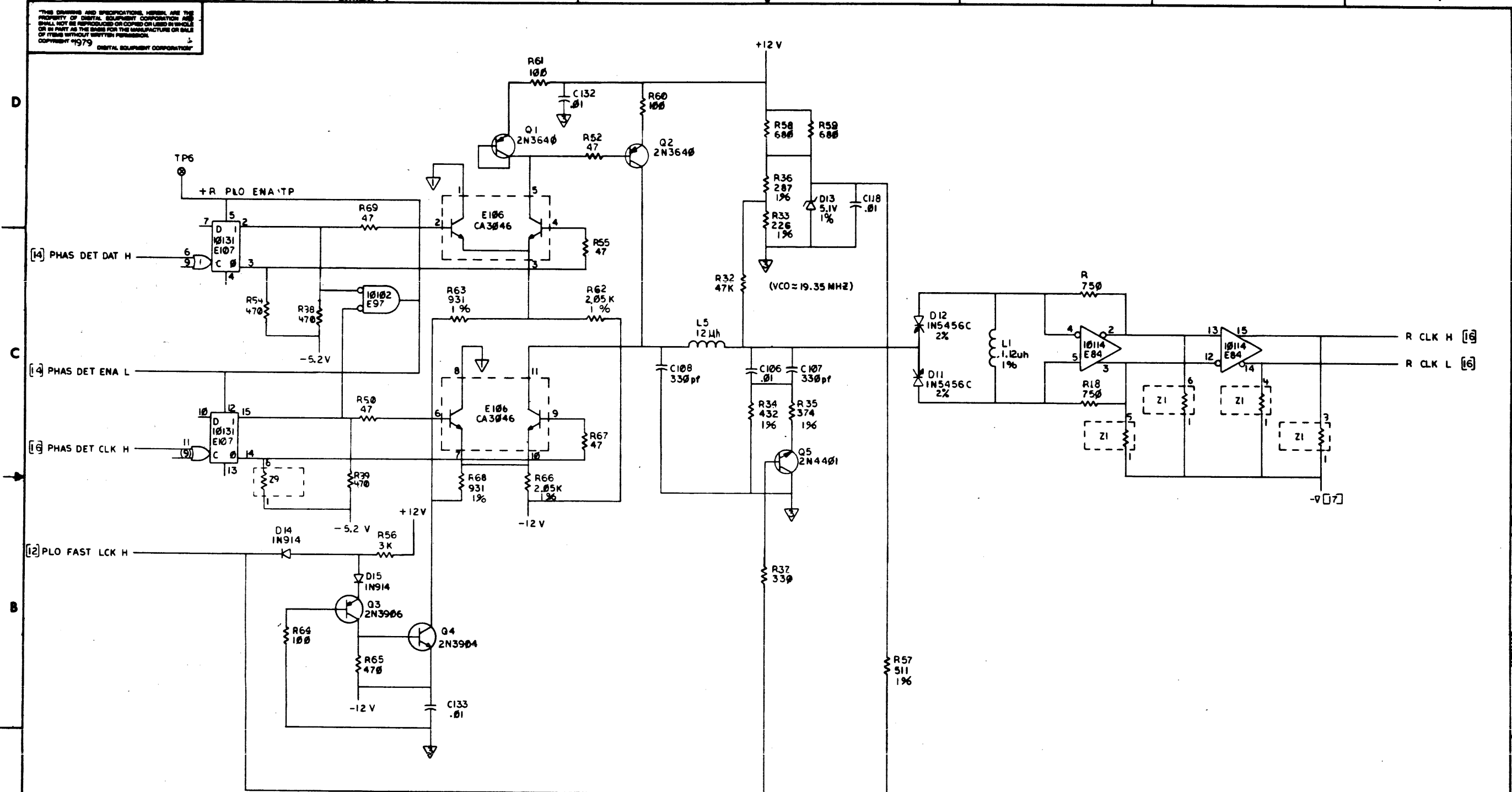
TITLE	(UPI)	SIZE CODE	NUMBER	REV.
MICRO PROCESSOR		DCS5414012-0-1 P		
SCALE		SHEET 10 OF 17	DIST.	

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REVISIONS			DOCUMENT NUMBER	
CHK	CHANGE NO.	REV.	TITLE	NUMBER
			MICRO PROCESSOR (UP12)	DCS5414012-0-1 P
			SCALE	SHEET 12 OF 17

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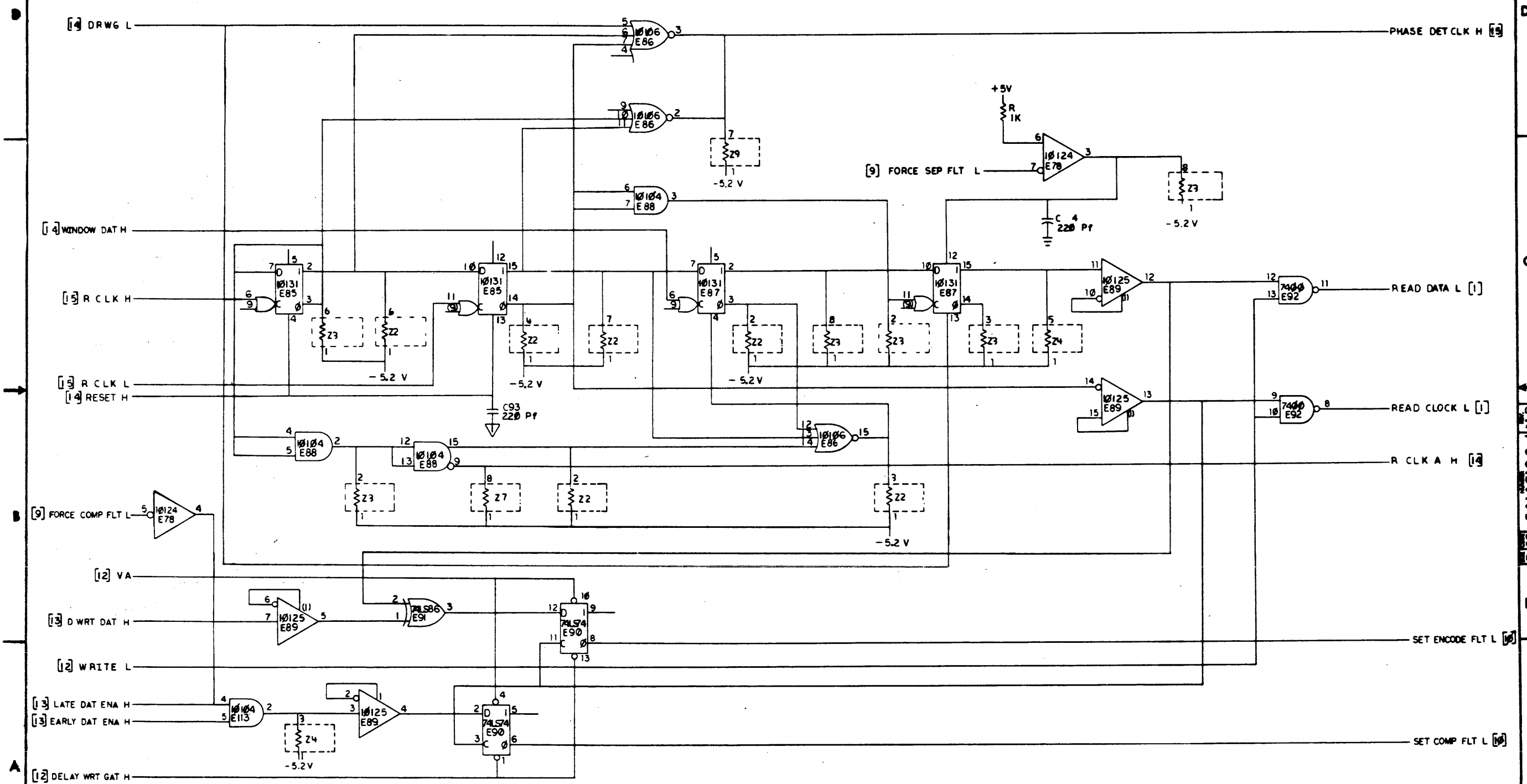


REVISIONS		
CHK	CHANGE NO.	REV

TITLE (UP15)
 MICRO PROCESSOR

DOCUMENT NUMBER
 DCS 5414012-0-1

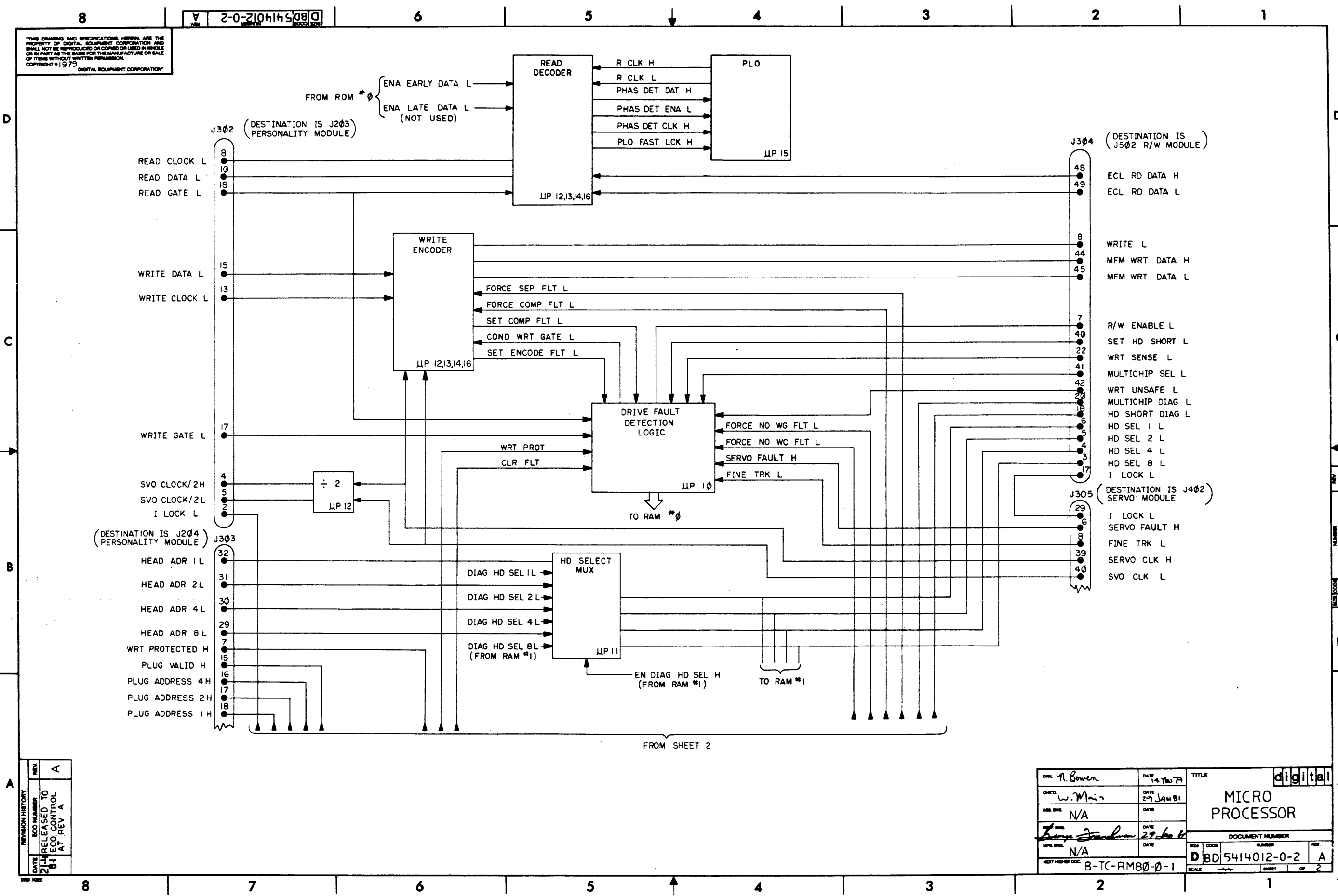
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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	(UPI 6)	SIZE CODE	NUMBER	REV.
MICRO PROCESSOR		DCS	5414012-0-1	N/P
SCALE	SHEET 16	OF 17	DIST.	

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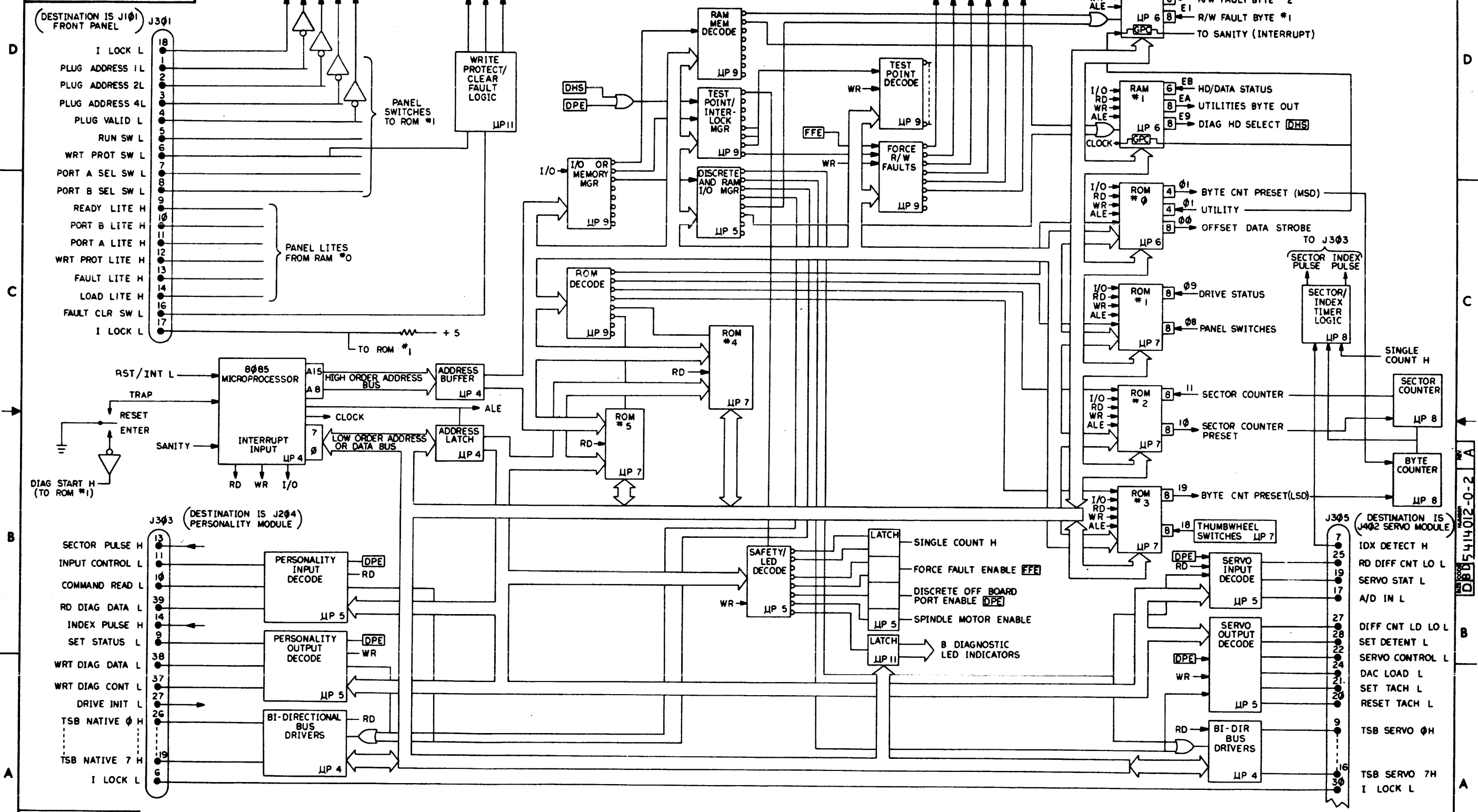
DATE	REVISION HISTORY	ECO NUMBER	REV.
2/1/79	RELEASED TO CONTROL AT REV A		A

DRW: <i>M. Bowen</i>	DATE: 14 Feb 79	TITLE: digital
CHKD: <i>W. Min</i>	DATE: 27 Jan 81	MICRO PROCESSOR
DES. ENG: N/A	DATE:	DOCUMENT NUMBER
APP. ENG: <i>[Signature]</i>	DATE: 27 Jan 81	D BD 5414012-0-2 A
SCALE: B-TC-RM80-0-1	SCALE: 1:1	SHEET: 2 OF 2

FROM SHEET 2

TO SHEET 1

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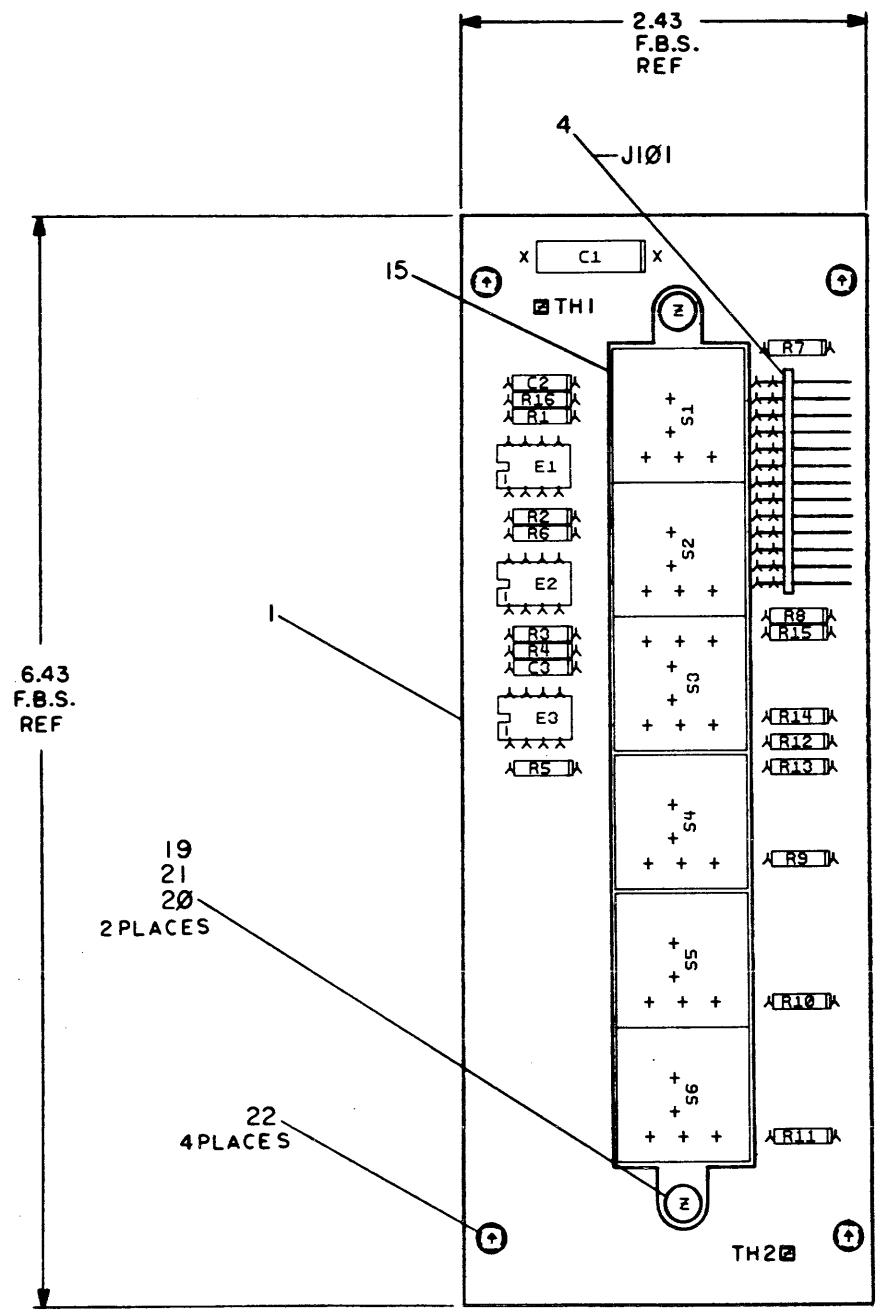
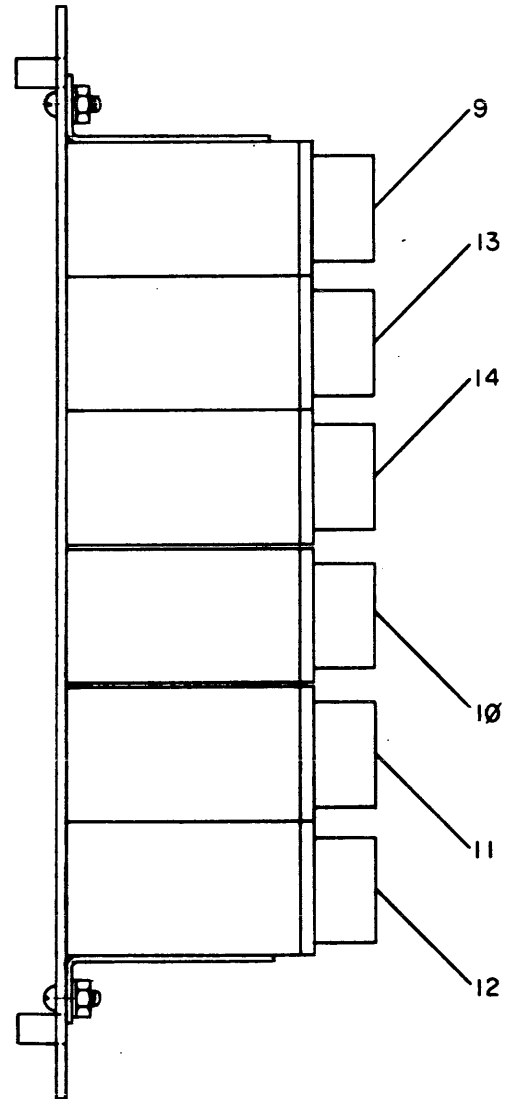
REVISION HISTORY		
DATE	ECO NUMBER	REV.

TITLE
MICRO PROCESSOR

DOCUMENT NUMBER			
SIZE	CODE	NUMBER	REV.
DBD	5414012-0-2		A
SCALE		SHEET 2 OF 2	

COMPONENT SIDE VIEW

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NOTES:

STEP E	↑ Y AXIS	STEP	TIMES
REPEAT	→ X AXIS	STEP	TIMES

CHK	CHANGE NO	REV	C	D	E
CM	5413641	-			
CM	CX03A				
CM	J. COFFEE				
CM	5413641	-			
CM	CX004				
CM	J. COFFEE				
CM	5413641	-			
CM	CX005				
CM	J. COFFEE				

ETCH REV. C

SIGNATURES	DATE	digital
DRN. O. J. COFFEE	7/10/79	
CHK'D. J. COFFEE	7/11/79	TITLE OPERATOR
MECH. ENG. J. COFFEE	7/11/79	CONTROL PANEL
PROJ. ENG. J. COFFEE	7/11/79	SCALE 2/1
PROD. D. WEAVER	7/11/79	SHT. 1 OF 1
NEXT HIGHER ASSY. B-DD-5413641-0		SIZE CODE NUMBER REV
		D UA 5413641-0-0 E

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
1	D-MD-5013640-0-0	5013640-00	DRILL & ETCH BD	1	
2		1012784-00	.047 MFD 50V +80-20% CER	2	C2,C3
3		1017472-00	10 MFD 35V +50-10% AL EL	1	C1
4		1212965-03	HEADER 26POS DOUBLE ROW	1	J101
5		1212717-01	SW,PB 1PDT ALT 2A	4	S1,S4,S5,S6
6		1212717-06	SW,PB,LT 1PDT MOM 2A	1	S2
7		1212690-01	SW,PB,LT 1PST UNIT SELECT 10M	1	S3
8		1213188-02	MOUNTING BRACKET, SWITCH, 6POS	1	
9		1212714-00	SW,PB CAP, YEL/BLK, "RUN STOP"	1	
10		1212714-01	SW,PB CAP, YEL/BLK, "WRITE PROT"	1	
11		1212714-30	SW,PB CAP, WHT/BLK, "STAT 1"	1	
12		1212714-31	SW,PB CAP, WHT/BLK, "STAT 2"	1	
13		1212714-02	SW,PB CAP, RED/BLK, "FAULT"	1	
14		1212691-00	SW,PP CAP "0/READY" FOR 12-1	1	
15		1212716-00	LAMP, WEDGE, 6.3V, .2A, .4MSCP, T1-3/	6	
16		1300365-00	1.0 K .25 W 5.0 % CC	6	R1-R6
17		1300295-00	330.0 .25 W 5.0 % CC	9	R7-R15
18		1914432-00	75454 DRIVER, PERIPH, DUAL,	3	E1-E3
19		9008301-01	SCREW, PAN, PHIL 4-40X 1/4 SS	2	
20		9006556-00	NUT, HEX , 4-40X1/4 AF X 3/	2	
21		9006632-00	WASHER, LOCK, INT, .2600D X .120ID	2	
22		9009113-01	STANDOFF, P.C. BOARD 4-40 X .125	4	
23		1300229-00	100.0 .25 W 5.0 % CC	1	R16

REVISION HISTORY			BASIC PART NO: 5413641		DRN:	A. SIMM	DATE:	14 DEC 79	D I G I T A L			
ENG	ECO NUMBER	REV	SECTION A OF A		CHK'D:	H. WEINBRENNER	DATE:	14 DEC 79	TITLE PARTS LIST			
	R80-473	A	SECTION VARIATION INDEX						OPERATOR CONTROL PANEL			
JC	5413641-CX001A	B	[A] 00									
JC	5413641-CX003	C	[B]									
JC	5413641-CX03A	C	[C]									
JC	5413641-CX004	D	[D]		DES.ENG:	JIM COFFEE	DATE:	14 DEC 79				
JC	5413641-CX005	E	[E]									
JH	5413641-CX006	F	[F]		RESP.ENG.:	JIM COFFEE	DATE:	14 DEC 79	DOCUMENT NUMBER			
	11-ME-82		[H]						SIZE	CODE	NUMBER	REV
			[J]		MFG.ENG.:	A. MORGAN	DATE:	14 DEC 79	K	PL	5413641-0-DBP	F
			[K]									
			[L]		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
			[M]		D-UA-5413641-0-0		# B-DD-5413641-0		Z0490F.PLS		33	
			[N]									

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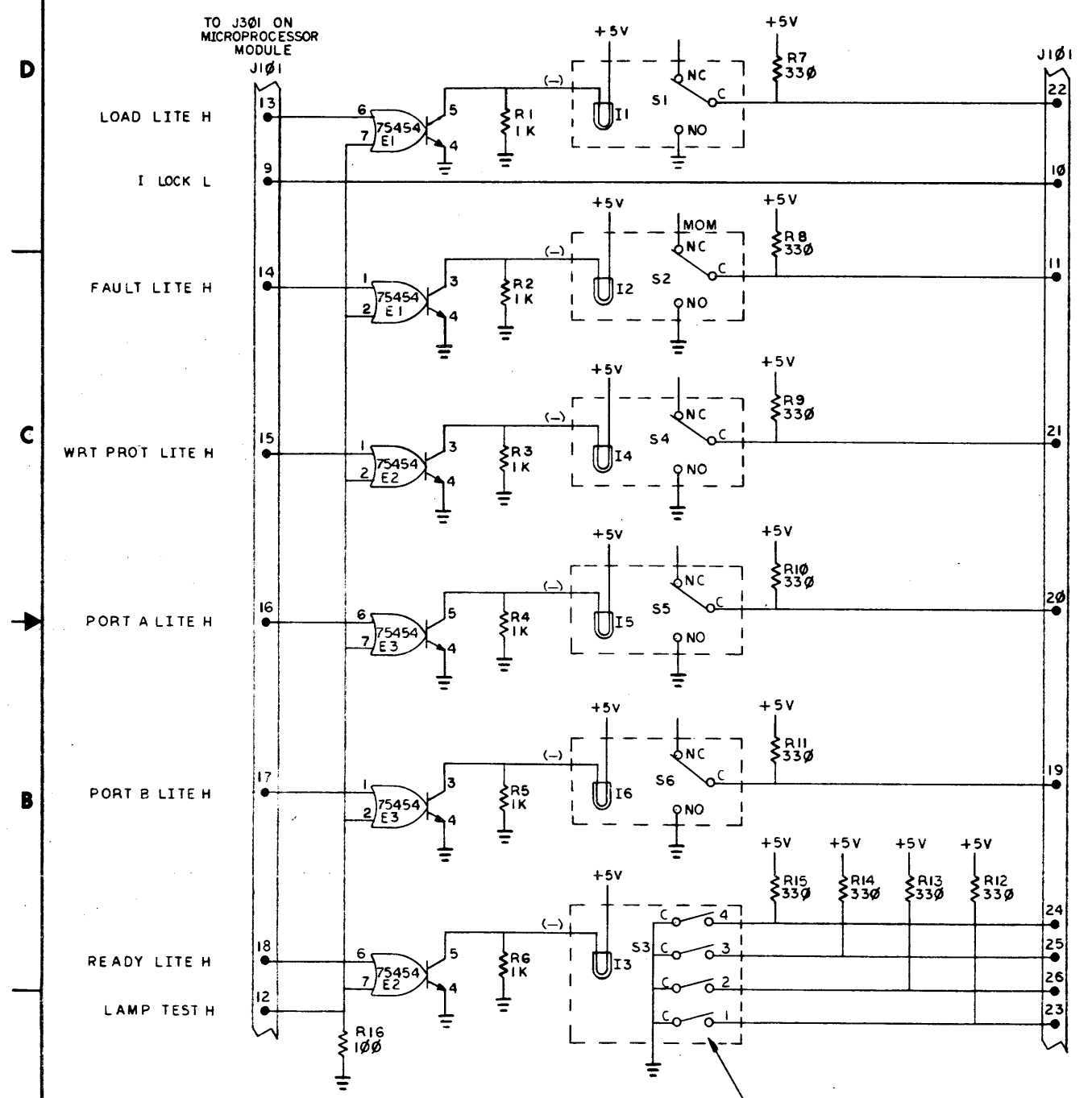
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1-0-1692169 S D 2 1

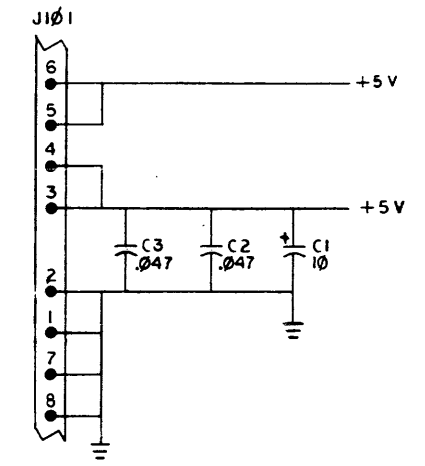
NOTES:
 1. UNLESS OTHERWISE NOTED, ALL RESISTORS ARE 1/4 W, 5%.
 2. S3 IS A CAM ENCODED SWITCH, 8 DIFFERENT SWITCH CAPS, EACH WITH A UNIQUE CAM CONFIGURATION AND WILL ACCOMPLISH VARIOUS CONTACT CLOSURES AS FOLLOWS:
 ● = CKT CLOSURE, ○ = CKT OPEN

TRUTH TABLE				
CAM CODE	CKT 1	CKT 2	CKT 3	CKT 4
0	●	○	○	○
1	●	●	○	○
2	●	○	●	○
3	●	●	●	○
4	●	○	○	●
5	●	○	○	●
6	●	○	●	●
7	●	●	●	●

3. UNLESS OTHERWISE SPECIFIED, ALL RESISTORS ARE IN OHMS, ALL CAPACITORS ARE IN MICROFARADS (UF).
 4. THE MNEMONICS "PORT A LITE H" AND "PORT B LITE H" IN THE RM80 SERIES OF R80 DRIVES ARE TO BE INTERPRETED AS "STAT 1" AND "STAT 2" RESPECTIVELY. THIS PRINT IS LEFT WITH THE MNEMONICS AS SHOWN FOR COMPATIBILITY WITH FUTURE R80 DRIVES.



RUN SW L
 I LOCK L
 FAULT CLR SW L
 WRT PROT SW L
 PORT A SEL SW L
 PORT B SEL SW L
 PLUG ADDRESS 4 L
 PLUG ADDRESS 2 L
 PLUG ADDRESS 1 L
 PLUG VALID L



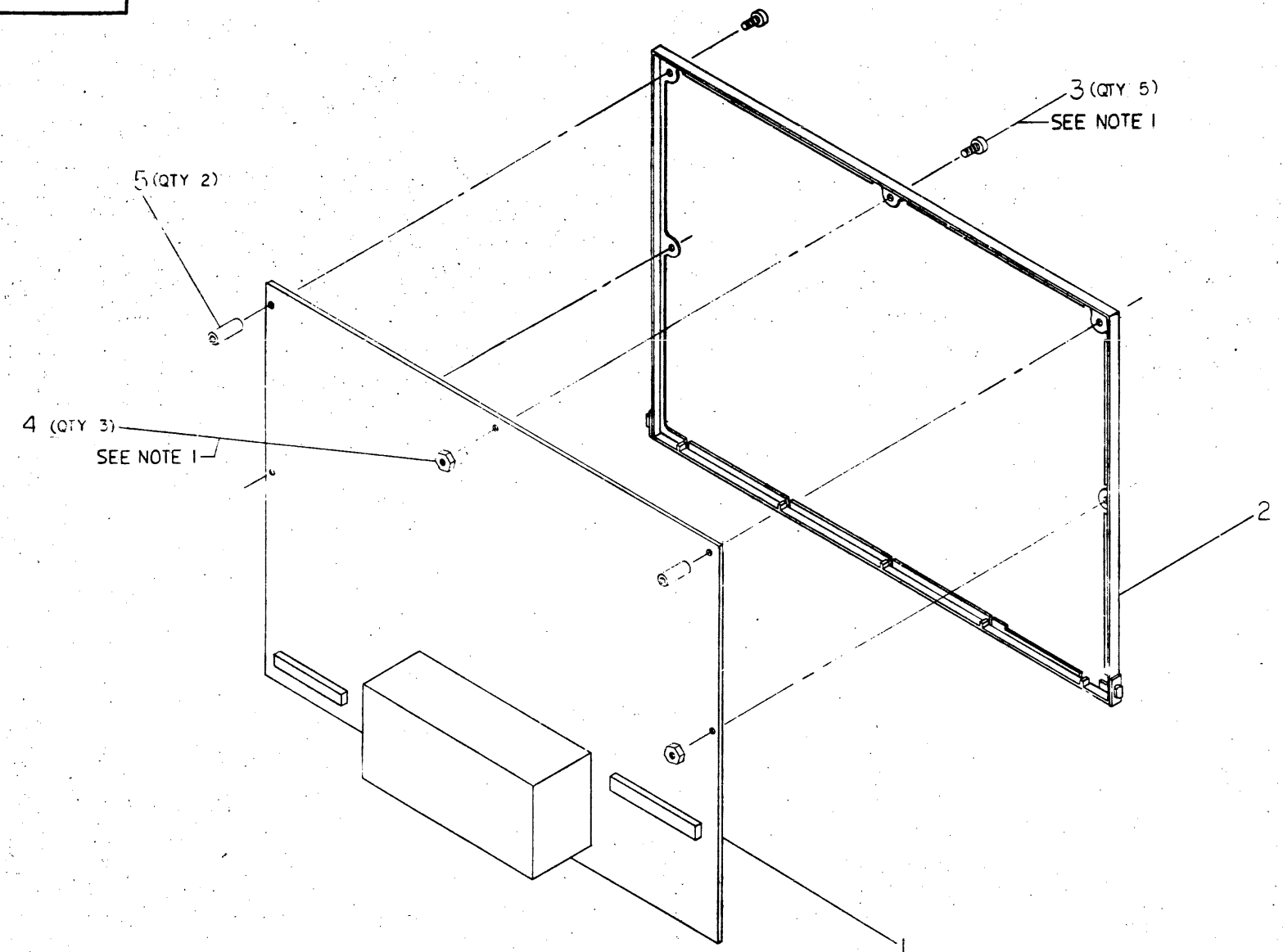
ALL NORMALLY OPEN
 SEE NOTE 2

REV.	BY	DATE	DESCRIPTION
1	J. COFFEE	7/27/77	INITIAL DESIGN
2	J. COFFEE	8/1/77	REVISED FOR CAM SWITCH
3	J. COFFEE	8/1/77	REVISED FOR PORT A/B
4	J. COFFEE	8/1/77	REVISED FOR LAMP TEST
5	J. COFFEE	8/1/77	REVISED FOR PLUG ADDRESS
6	J. COFFEE	8/1/77	REVISED FOR RUN SW
7	J. COFFEE	8/1/77	REVISED FOR I LOCK
8	J. COFFEE	8/1/77	REVISED FOR FAULT CLR

QUANTITY & VARIATION	DESCRIPTION	DWG./PART NO.	ITEM NO.
THIRD ANGLE PROJECTION	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
REMOVE BURRS AND BREAK SHARP CORNERS	CLASS OF ACCURACY	NOMINAL DIMENSION RANGE INCHES	
DO NOT SCALE DWG	(CHECK ONE)	OVER 0 TO 0.2	OVER 0.2 TO 0.5
MATERIAL	MEDIUM	OVER 0.5 TO 1.2	OVER 1.2 TO 4.0
FINISH	PREFERRED	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0
		OVER 4.0 TO 12.0	OVER 12.0 TO 40.0
		OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
		OVER 40.0 TO 80.0	OVER 80.0 TO 160.0
		OVER 80.0 TO 160.0	OVER 160.0 TO 320.0
		OVER 160.0 TO 320.0	OVER 320.0 TO 640.0
		OVER 320.0 TO 640.0	OVER 640.0 TO 1280.0
		OVER 640.0 TO 1280.0	OVER 1280.0 TO 2560.0
		OVER 1280.0 TO 2560.0	OVER 2560.0 TO 5120.0
		OVER 2560.0 TO 5120.0	OVER 5120.0 TO 10240.0
		OVER 5120.0 TO 10240.0	OVER 10240.0 TO 20480.0
		OVER 10240.0 TO 20480.0	OVER 20480.0 TO 40960.0
		OVER 20480.0 TO 40960.0	OVER 40960.0 TO 81920.0
		OVER 40960.0 TO 81920.0	OVER 81920.0 TO 163840.0
		OVER 81920.0 TO 163840.0	OVER 163840.0 TO 327680.0
		OVER 163840.0 TO 327680.0	OVER 327680.0 TO 655360.0
		OVER 327680.0 TO 655360.0	OVER 655360.0 TO 1310720.0
		OVER 655360.0 TO 1310720.0	OVER 1310720.0 TO 2621440.0
		OVER 1310720.0 TO 2621440.0	OVER 2621440.0 TO 5242880.0
		OVER 2621440.0 TO 5242880.0	OVER 5242880.0 TO 10485760.0
		OVER 5242880.0 TO 10485760.0	OVER 10485760.0 TO 20971520.0
		OVER 10485760.0 TO 20971520.0	OVER 20971520.0 TO 41943040.0
		OVER 20971520.0 TO 41943040.0	OVER 41943040.0 TO 83886080.0
		OVER 41943040.0 TO 83886080.0	OVER 83886080.0 TO 167772160.0
		OVER 83886080.0 TO 167772160.0	OVER 167772160.0 TO 335544320.0
		OVER 167772160.0 TO 335544320.0	OVER 335544320.0 TO 671088640.0
		OVER 335544320.0 TO 671088640.0	OVER 671088640.0 TO 1342177280.0
		OVER 671088640.0 TO 1342177280.0	OVER 1342177280.0 TO 2684354560.0
		OVER 2684354560.0 TO 5368709120.0	OVER 5368709120.0 TO 10737418240.0
		OVER 10737418240.0 TO 21474836480.0	OVER 21474836480.0 TO 42949672960.0
		OVER 42949672960.0 TO 85899345920.0	OVER 85899345920.0 TO 171798691840.0
		OVER 171798691840.0 TO 343597383680.0	OVER 343597383680.0 TO 687194767360.0
		OVER 687194767360.0 TO 1374389534720.0	OVER 1374389534720.0 TO 2748779069440.0
		OVER 2748779069440.0 TO 5497558138880.0	OVER 5497558138880.0 TO 10995116277760.0
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NOTES:
1. APPLY (ITEM 6) TO ITEMS 3 AND 4 AFTER ASSEMBLY.



CAUTION: OFF-SHEET PARTS LIST EXISTS -
SEE K-PL-7016976-0-DBP (Z1094).

REV.	DATE	BY	CHK	DESCRIPTION
1	18 JAN 80	PCO	PCO	RELEASED TO ECO CONTROL. PCO R80-589
2	15 OCT 81	J. NORDBERG	J. NORDBERG	REVISED TO 15 OCT 81

DESCRIPTION	DWG./PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
ANGLES M ² 30'	CLASS OF ACCURACY	NOMINAL DIMENSION RANGE INCHES
SURFACE QUALITY IN	(CHECK ONE)	0.005 TO 0.010 0.010 TO 0.015 0.015 TO 0.020 0.020 TO 0.030 0.030 TO 0.040 0.040 TO 0.050
QUANTITY & VARIATION	MICRONCHES	PREFERRED
THIRD ANGLE PROJECTION	DRM-31 Eagle	FIRST USED ON
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D BY: [Signature]	DATE: [Date]
DO NOT SCALE DWG	PRD. ENG: [Signature]	TITLE
MATERIAL SEE PARTS LIST	E-UA-R80-0-0	SERVO BOARD AND STIFFENER ASSY
FINISH	SCALE 1/2"	SIZE CODE D AD
	SHEET OF DIST.	NUMBER 7016976-0-0
		REV B1

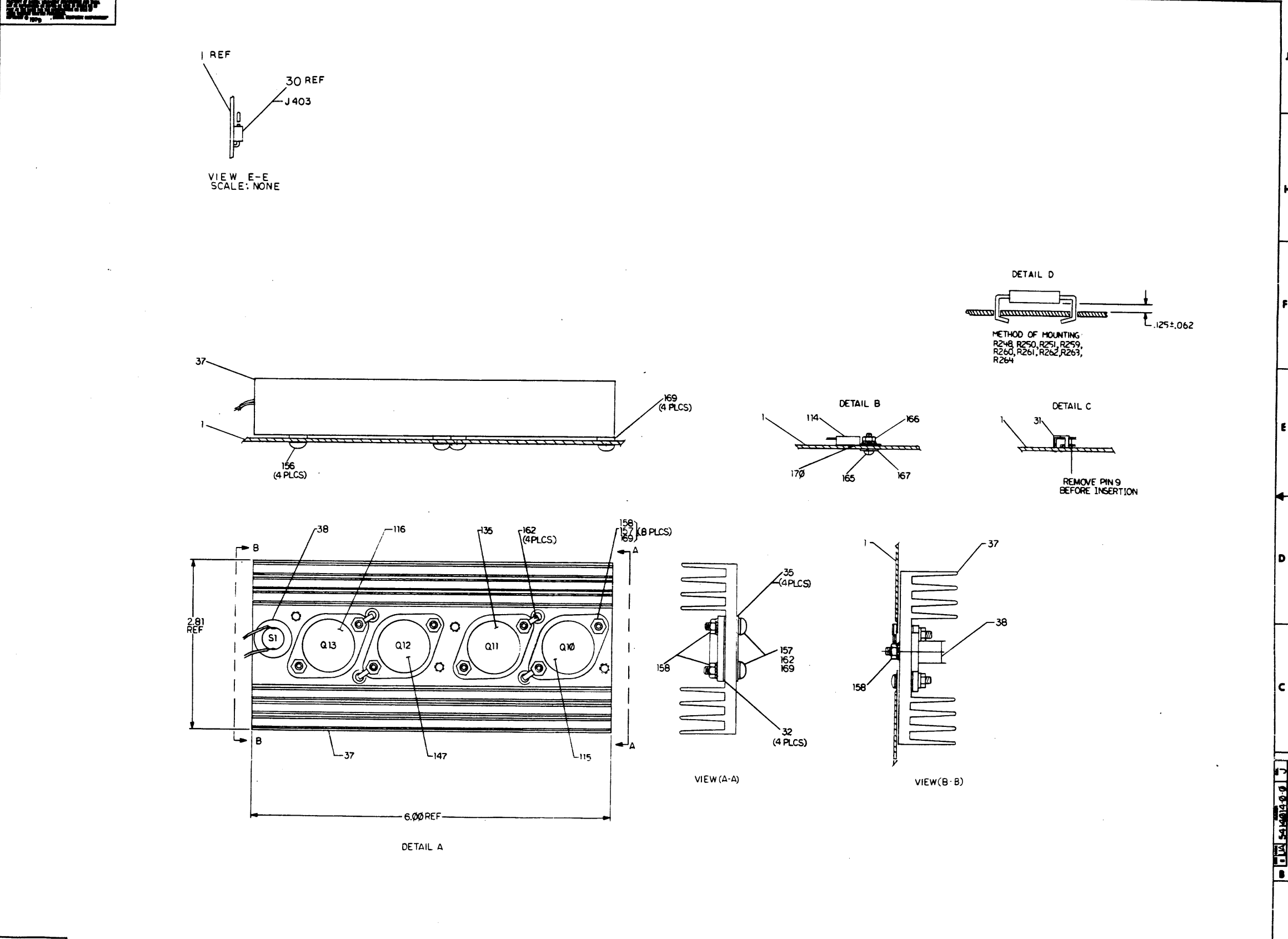
7016976-0-0

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION
1	1	E-UA-5414014-0-0	5414014-00	SERVO CONTROL	1
2	2		7421976-00	TRAY EXT HEX SUPPORT	1
3	3		9008212-00	SCREW, NYLON, SLTD PAN HD, 6-32	5
4	4		9007883-00	NUT, HEX, NYLON 6-32X .312X .146T	3
5	5		9000035-04	SPACER, RND, THD 6-32X 3/4 L	2
6	6		9009536-00	GLYPTOL, RED	A/R

REVISION HISTORY			BASIC PART NO: 7016976			DIGITAL					
ENG	ECC NUMBER	REV	SECTION A OF A	DRN:	M. ENGLE	DATE:	12-MAR-79				
GN	PCO CONTROL	*	SECTION. VARIATION INDEX	CHK'D:	W. MAJOR	DATE:	21-JAN-80	TITLE PARTS LIST			
GN	R80-CX004	A	[A] 00					SERVO BOARD AND STIFFENER ASSY			
JN	7016976-CX001	B	[B]	DES.ENG.:	G. NORDBERG	DATE:	21-JAN-80	DOCUMENT NUMBER			
			[C]	RESP.ENG.:	W. MONTERO	DATE:	22-JAN-80	SIZE	CODE	NUMBER	REV
			[D]					K	PL	7016976-0-DBP	B
			[E]	MFG.ENG.:	W. EHRMANN	DATE:	22-JAN-80	FILE NAME:		EDIT #	
			[F]	ASSEMBLY NUMBER:	D-AD-7016976-0-0	TOP DOCUMENT NUMBER:	E-AD-7016773-0-0	Z1094B.PLS		9	

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8 7 6 5 4 3 2 1



REV	DESCRIPTION	DATE

8 7 6 5 4 3 2 1

REV E ETCH RELEASE

ETCH CUTS (SIDE 1):

Ø-1. } SEE E-EC-5014013-0-0, REV A, SH 1.
Ø-2. }

ETCH CUTS (SIDE 2):

Ø-3. } SEE E-EC-5014013-0-0, REV A, SH 2.

WIRE ADDS (SIDE 1):

Ø-4. FROM E74-8 TO E74-9.
Ø-5. FROM E74-8 TO E75-11.
Ø-6. FROM E74-10 TO E71-6.
Ø-7. FROM E30-3 TO E17-4.

REWORK INSTRUCTIONS

ECO 5414014-CXØ3A

COMPONENT DELETIONS (SIDE 1):

3-1. C113 (1013466-2Ø).
3-2. R178 (1314187-ØØ).
3-3. R215 (1313342-ØØ).
3-4. C117 (1013466-2Ø).
3-5. CUT PIN 1 OF J4Ø3 FLUSH WITH CONNECTOR. (SEE VIEW E-E)

ETCH CUTS

3-6.
3-7.
3-8.
3-9.
3-9A.
3-10. } SEE E-EC-5014013-0-0
3-11.
3-12.
3-13.
3-14.
3-15.
3-16.

COMPONENT ADDS (SIDE 1):

3-17. C113 (1000050-ØØ).
3-18. R178 (1312988-ØØ).
3-19. R215 (1313841-ØØ).
3-20. C117 (1013466-2Ø).
3-20A. D44 (105275-ØØ).

WIRE ADDS (SIDE 1):

3-21. FROM E61-13 TO E61-14.
3-22. FROM E61-13 TO PTH ABOVE E42-18.
3-23. FROM E61-12 TO PTH BELOW C162.
3-24. FROM E75-11 TO R184 AT TOP.
3-25. FROM PTH TO LEFT OF E66 TO R186 AT TOP.
3-26. FROM PTH TO LEFT OF E66 TO E66-9.
3-27. FROM E66-8 TO C117 AT BOTTOM.
3-28. FROM E61-14 TO R2Ø3 AT TOP.
3-29. FROM R165 AT BOTTOM TO PTH BELOW C113.
3-30. FROM E6Ø-5 TO E51-1Ø.
3-31. FROM E51-9 TO PTH ABOVE AND TO LEFT OF E44-2Ø.
3-32. FROM PTH BELOW E8Ø-1 TO PTH ABOVE E8Ø-16, (ETCH FROM PTH GOES TO TP26).
3-33. FROM E29-1Ø TO PTH TO LEFT OF J4Ø2.
3-33A. FROM R184 AT TOP TO R185 AT TOP.
3-34. FROM E77-7 TO E74-1Ø.
3-35. FROM E77-1Ø TO E74-9.

ECO 5414014-CXØ3A (CONT)

COMPONENT DELETES (SIDE 1):

3-1A. R167, RESISTOR 3Ø1Ø (13173Ø1-ØØ).

COMPONENT ADDS (SIDE 1):

3-2A. R167, RESISTOR 511Ø (13Ø2411-ØØ).

ECO 5414014-CXØØ5

COMPONENT DELETES (SIDE 1)

5-1. R25 511, 1/4W, 1% (13Ø2411-ØØ).
5-2. R28 511, 1/4W, 1% (13Ø2411-ØØ).
5-3. R54 1.1K, 1/4W, 1% (13Ø2645-ØØ).
5-4. R55 1.1K, 1/4W, 1% (13Ø2645-ØØ).
5-5. R1Ø9 6.81K, 1/4W, 1% (13Ø487Ø-ØØ).
5-6. R11Ø 4K, 1/4W, 1% (13Ø5127-ØØ).
5-7. W25 JUMPER WIRE (9ØØ9185-ØØ).
5-8. R21 487, 1/4W, 1% (1311845-ØØ).
5-9. R75 487, 1/4W, 1% (1311845-ØØ).
5-1Ø. D15 IN756A, 8.2V, ZENER, .4W, 5%, (11Ø3441-ØØ).
5-11. E65, E75, E79, E8Ø NOTE: IF ANY OF THESE COMPONENTS ARE FROM NATIONAL VENDOR 132Ø1 (1916573-ØØ) DELETE. COMPONENTS FROM VENDORS SILICONIX DG2Ø1 (1916573-ØØ) AND HARRIS HI-2Ø1 ARE ACCEPTABLE.
5-12. R278 39Ø, 1/4W, 5% (13ØØ3Ø9-ØØ).
5-13. R279 39Ø, 1/4W, 5% (13ØØ3Ø9-ØØ).
5-14. C28 1ØØ.ØMMF 1ØØV, 1%, 7ØPPMDM1Ø5 (1Ø172ØØ-ØØ).
5-15. C45 1ØØ.ØMMF 1ØØV, 1%, 7ØPPMDM1Ø5 (1Ø172ØØ-ØØ).
5-16. C46 1ØØ.ØMMF 1ØØV, 1%, 7ØPPMDM1Ø5 (1Ø172ØØ-ØØ).

COMPONENT ADDS (SIDE 1)

5-17. R25 348, 1/4W, 1% (13Ø4858-ØØ).
5-18. R28 348, 1/4W, 1% (13Ø4858-ØØ).
5-19. R54 825, 1/4W, 1% (13Ø5143-ØØ).
5-2Ø. R55 1.47K, 1/4W, 1% (13Ø51Ø8-ØØ).
5-21. R1Ø9 681, 1/4W, 1% (13Ø2872-ØØ).
5-22. R11Ø 412, 1/4W, 1% (1316837-ØØ).
5-23. R227 11.3K, 1/4W, 1% (1314989-ØØ).
5-24. R228 11.3K, 1/4W, 1% (1314989-ØØ).
5-25. R23Ø 11.3K, 1/4W, 1% (1314989-ØØ).
5-26. R231 11.3K, 1/4W, 1% (1314989-ØØ).
5-27. R229 1ØK, 1/4W, 1% (13Ø3312-ØØ).
5-28. R232 768, 1/4W, 1% (1313588-ØØ).
5-29. C139 .ØØ47MFD, 1ØØV, 1% MYLAR (1ØØ9312-ØØ).
5-3Ø. C14Ø .ØØ47MFD, 1ØØV, 1% MYLAR (1ØØ9312-ØØ).
5-31. C141 .ØØ47MFD, 1ØØV, 1% MYLAR (1ØØ9312-ØØ).
5-32. C142 .ØØ47MFD, 1ØØV, 1% MYLAR (1ØØ9312-ØØ).
5-33. W2Ø JUMPER WIRE (9ØØ9185-ØØ).
5-34. R21 75Ø, 1/4W, 1% (13Ø2955-ØØ).
5-35. R75 75Ø, 1/4W, 1% (13Ø2955-ØØ).
5-36. D15 IN4738A, 1W, 5% 8.2V ZENER (1116698-ØØ).
5-37. E65, E75, E79, E8Ø NOTE: IF ANY OF THESE COMPONENTS WERE DELETED, REPLACE WITH SILICONIX DG2Ø1 (1916573-ØØ) OR HARRIS HI-2Ø1. (SEE REWORK 5-11).
5-38. R278 1K, 1/4W, 5% (13ØØ365-ØØ).
5-39. R279 1K, 1/4W, 5% (13ØØ365-ØØ).
*5-4Ø. C28 1ØØ.ØMMF 1ØØV 1% 7ØPPMDM1Ø5 (1Ø172ØØ-ØØ).
*5-41. C45 1ØØ.ØMMF 1ØØV 1% 7ØPPMDM1Ø5 (1Ø172ØØ-ØØ).
*5-42. C46 1ØØ.ØMMF 1ØØV 1% 7ØPPMDM1Ø5 (1Ø172ØØ-ØØ).
*ADD THIN WALL TUBING (91-Ø7256-11) TO LEADS OF C28, C45, AND C46.

ECO 5414014-CXØØ6

WIRE ADDS SIDE 1-3Ø AWG

6-1. ADD WIRE FROM E29-11 THROUGH PTH BELOW J4Ø2. THEN MAKE CONNECTION ON SIDE TWO AT J4Ø2-38. NOTE: APPLY ADHESIVE TO WIRE AT PTH FOR STRAIN RELIEF.
6-2. WHEN THE ABOVE REWORK IS COMPLETE, MARK THE BOARD CS REV K.

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
				00	
1	D-MD-5014013-0-0	5014013-00	SERVO CONTROL	1	
2		1000037-00	.22 MFD 100V 10% MYLR	1	C168
3		1000050-00	.033 MFD 100V 80V 10% MYL	1	C113
4		1000061-00	.0082 MFD 100V 10% MYLR	1	C54
5		1001610-00	.01 MFD 50V +80-20% Z5U CER	20	C2,C4,C5,C8,C14,C15,C26,C27,C29, CONT C30,C44,C48,C60,C65,C66,C112, CONT C154,C158,C185,C302
6		1001636-00	2400.0 MMF 100V 5%200PPM MICA	1	C116
7		1002630-00	.015 MFD 100V 10% MYLR	1	C23
8		1005965-00	.47 MFD 35V 10% S.TANT	1	C1
9		1009312-00	.0047 MFD 100V 1% MYLR	24	C50,C52,C86-C89,C91,C97, CONT C119-C126,C130,C139-C142,C144, CONT C171,C187
10		1012784-00	.047 MFD 50V +80-20% CER	27	C7,C10,C11,C12,C22,C25,C38,C42, CONT C43,C58,C63,C64,C68,C70,C80, CONT C100,C101,C105,C108,C110,C133, CONT C135,C151,C156,C174,C178,C181 C71,C72,C82,C84,C85,C129
11		1013466-01	10.0 MMF 50V 5% CER	6	C79
12		1013466-06	100.0 MMF 50V 5% CER	1	C3
13		1013466-08	680.0 MMF 50V 10% X7R CER	1	C55,C134
14		1013466-12	2200.0 MMF 50V 10% X7R CER	2	C137
15		1013466-14	82.0 MMF 50V 5% CER	1	C39
16		1013466-18	330.0 MMF 50V 5% CER	1	C49,C51
17		1013466-19	470.0 MMF 50V 5% CER	2	C18,C31,C34,C107
18		1013466-23	22.0 MMF 50V 5% CER	4	C53,C73,C76,C145
19		1013466-24	47.0 MMF 50V 5% CER	4	C19,C35
20		1013466-25	68.0 MMF 50V 5% CER	2	C159
21		1013466-26	120.0 MMF 50V 5% CER	1	C24,C40,C117,C118,C186
22		1013466-28	1000.0 MMF 50V 5% CER	5	C20,C36
23		1013466-29	1500.0 MMF 50V 5% CER	2	

REVISION HISTORY		BASIC PART NO: 5414014		D I G I T A L	
ENG	ECO NUMBER	REV	SECTION A OF A	DRN:	SUE BOURBEAU
	5414014-CX007	J	SECTION VARIATION INDEX	CHK'D:	RON MICHAUD
			[A] 00	DES. ENG:	BILL RAY
			[B]	RESP. ENG.:	BILL RAY
			[C]	MFG. ENG.:	AHMAD KASSAK
			[D]	ASSEMBLY NUMBER:	E-UA-5414014-0-0
			[E]	TOP DOCUMENT NUMBER:	#B-DD-5414014-0
			[F]	FILE NAME:	Z0497J.PLS
			[G]	EDIT #:	10
			[H]		
			[I]		
			[J]		
			[K]		
			[L]		
			[M]		
			[N]		

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					00		
24	24	SEE NOTE 1	1014169-00	1000.0 MMF 100V 1X200PPM MICA	1		C28
25	25	SEE NOTE 1	1017200-00	100.0 MMF 100V 1X 70PPM MICA	2		C45,C46
26	26		1017472-00	10 MFD 35V +50-10% AL EL	25		C6,C16,C17,C21,C32,C33,C37,C41, C56,C57,C98,C99,C136,C138,C143, CONT C148,C149,C152,C161-C164,C167, CONT C169,C172
27	27		1100122-00	1N 748A VZ= 3.9 5%	1		D45
28	28		1102421-00	1N 753A VZ= 6.2 5% .40W P	6		D5,D14,D25,D26,D29,D31
29	29		1105275-00	D 672 TR= 15NS PIV= 60V SI	27		D1,D3,D4,D6-D13,D18-D20,D23,D24, CONT D27,D28,D30,D32,D35-D37,D39-D41, CONT D44
30	30		1105871-00	1/4MS.1AZ1 = 5.1 1% .25W N	1		D34
31	31		1109977-00	1N 749A VZ= 4.3 5%	1		D15
32	32		1110324-00	LED 1MCD@10MA PIV=3	2		D42,D43
33	33		1116824-00	1N 5456C 30V 400MW 2% VARACTOR D	2		D16,D17
34	34		1212204-13	PCB HEADER 16PIN(1X16).156CC 90D	1		J403
35	35		1212965-01	PCB,HEADER 10PIN(2X05).100CC 90D	1		J401
36	36		1213071-02	INSULATOR,RUBBER SILICONE SM	4		
37	37		1213071-06	INSULATOR,RUBBER SILICONE	1		
38	38		1215580-00	INSULATOR,MOLDED	4		
39	39		1216832-02	PCB,HEADER 40POS(2X20).100CC 90D	1		J402
40	40		1216833-00	HEAT SINK,EXTRUSION 06.00X02.8	1		HS1
41	41		1216869-00	THERMOSTAT,74 C	1		S1
42	42		1300005-04	R NETWORK 15-470 5.0 % 16PIN	1		E254
43	43		1300202-00	47.0 .25 W 5.0 % CC	8		R5,R6,R8,R26,R29,R41,R51,R76
44	44		1300228-00	100.0 .50 W 5.0 % CC	1		R22
45	45		1300291-00	300.0 .50 W 5.0 % CC	2		R253,R257
46	46		1300316-00	470.0 .25 W 5.0 % CC	5		R18,R20,R90,R92,R93
47	47		1300365-00	1.0 K .25 W 5.0 % CC	24		R10,R19,R33,R94,R95,R165,R176, CONT R209,R210,R242-R245,R266-R269, CONT R275-R277,R400-R402,R410
48	48		1300432-00	3.0 K .25 W 5.0 % CC	3		R88,R89,R288
49	49		1300444-00	3.90 K .25 W 5.0 % CC	8		R107,R108,R133,R134,R141,R142, CONT R144,R145
50	50		1300447-00	4.70 K .25 W 5.0 % CC	5		R170,R171,R197,R198,R256
51	51		1300479-00	10.0 K .25 W 5.0 % CC	18		R101,R102,R105,R106,R126,R128, CONT R129,R132,R140,R143,R180,R219, CONT R221,R222,R237-R240
52	52		1300496-00	15.0 K .25 W 5.0 % CC	2		R3,R9
53	53		1301317-00	10.0 .25 W 5.0 % CC	2		R24,R249
54	54		1301401-00	750.0 .25 W 5.0 % CC	1		R214
55	55		1301837-00	1.21 K .50 W 1.0 % RN60C-F 5	4		R21,R75,R303,R304
56	56		1302381-00	200.0 .50 W 5.0 % CC	2		R62,R302
57	57		1302388-00	2.0 K .25 W 5.0 % CC	3		R42,R43,R287
58	58		1302466-00	100.0 K .25 W 5.0 % CC	2		R179,R218
59	59		1302645-00	1.10 K .25 W 1.0 % RN55D-F10	3		R55,R278,R279
60	60		1302685-00	909.0 .25 W 1.0 % RN55D-F10	1		R53
61	61		1302858-00	100.0 .25 W 1.0 % RN55D-F10	5		R35,R36,R58,R224,R403

D	I	G	I	T	A	L	TITLE	SECTION A	OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							SERVO CONTROL			K	PL	5414014-0-DBP	J

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					00		
62	62		1302872-00	681.0		.25 W 1.0 % RN55D-F1	1 R109
63	63		1302874-00	147.0		.25 W 1.0 % RN55D-F10	1 R27
64	64		1303044-00	100.0	K	.25 W 1.0 % RN55D-F10	13 R79-R83,R111,R112,R123,R153, R154,R158,R207,R208
65	65		1303114-00	1.0	K	.25 W 1.0 % RN55D-F10	12 CONT R34,R49,R50,R54,R61,R87,R97, R150,R156,R169,R181,R183
66	66		1303177-00	2.40	K	.25 W 5.0 % CC	1 R408
67	67		1303179-00	8.20	K	.25 W 5.0 % CC	1 R233
68	68		1303312-00	10.0	K	.25 W 1.0 % RN55D-F10	18 CONT R23,R39,R59,R60,R84,R85,R135, R138,R139,R157,R168,R174,R175, R186,R199,R225,R226,R229
69	69		1304837-00	24.0	K	.25 W 5.0 % CC	2 R122,R161
70	70		1304839-00	51.0	K	.25 W 5.0 % CC	2 R155,R206
71	71		1304855-00	9.09	K	.25 W 1.0 % RN55D-F10	1 R182
72	72		1304862-00	1.62	K	.25 W 1.0 % RN55D-F10	7 R68,R69,R70,R72-R74,R286
73	73		1304865-00	1.0	K	.25 W .10% RN55E-B 2	2 R1,R2
74	74		1305114-00	3.48	K	.25 W 1.0 % RN55D-F10	4 R4,R7,R205,R236
75	75		1305124-00	287.0		.25 W 1.0 % RN55D-F10	2 R46,R110
76	76		1305125-00	383.0		.25 W 1.0 % RN55D-F10	2 R37,R167
77	77		1305252-00	68.10	K	.25 W 1.0 % RN55D-F10	1 R202
78	78		1305253-00	7.15	K	.25 W 1.0 % RN55D-F10	4 R172,R173,R189,R190
79	79		1305323-00	511.0	K	.25 W 1.0 % RN55D-F10	2 R118,R241
80	80		1305324-00	4.99	K	.25 W 1.0 % RN55D-F10	3 R136,R137,R223
81	81		1305515-00	64.0	K	.25 W .10% RN55E-B 2	2 R113,R115
82	82		1309143-10	10.0	K	.75 W10.0 % POT	1 R281
83	83		1309143-13	50.0	K	.75 W10.0 % POT	1 R284
84	84		1309296-00	113.0	K	.25 W .10% RN55E-B 2	2 R114,R116
85	85		1309415-00	11.50	K	.25 W 1.0 % RN55D-F10	2 R64,R166
86	86		1309416-00	31.60	K	.25 W 1.0 % RN55D-F10	1 R117
87	87		1309417-00	27.40	K	.25 W 1.0 % RN55D-F10	4 R148,R149,R151,R152
88	88		1309595-00	1.0	M	.25 W 5.0 % CC	8 CONT R77,R78,R86,R100,R104,R127,R131, R411
89	89		1310634-00	2.67	K	.25 W 1.0 % RN55D-F10	2 R63,R188
90	90		1311522-00	200.0		.25 W 5.0 % CC	1 R52
91	91		1311845-00	487.0		.25 W 1.0 % RN55D-F10	2 R31,R56
92	92		1312546-00	16.50	K	.25 W 1.0 % RN55D-F10	4 R191-R193,R195
93	93		1312626-00	2.49	K	.25 W 1.0 % RN55D-F10	1 R246
94	94		1312699-00	150.0		.50 W 1.0 % RN60D-F10	1 R255
95	95		1312747-00	56.20	K	.25 W 1.0 % RN55D-F10	3 R38,R234,R235
96	96		1312921-00	649.0		.25 W 1.0 % RN55D-F10	2 R25,R28
97	97		1312922-00	536.0		.25 W 1.0 % RN55D-F10	2 R30,R71
98	98		1312924-00	10.70	K	.25 W 1.0 % RN55D-F10	1 R44
99	99		1312930-00	5.10	K	.25 W 5.0 % CC	11 CONT R48,R99,R103,R125,R130,R146, R147,R184,R185,R217,R220
100	100		1312985-00	332.0	K	.25 W 1.0 % RN55D-F10	1 R40
101	101		1312988-00	49.90	K	.25 W 1.0 % RN55D-F10	11 CONT R119,R121,R159,R160,R177,R178, R200,R404-R407
102	102		1312990-00	12.70	K	.25 W 1.0 % RN55D	10 R98

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							SERVO CONTROL		K	PL	5414014-0-DBP	J

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					00		
103	103		1313167-00	833.0 K .25 W 1.0 % RN55C-F 5	1		R196
104	104		1313343-00	28.70 K .25 W 1.0 % RN55D-F10	1		R216
105	105		1313358-00	.20 5.0 W 3.0 % WW	2		R248,R261
106	106		1313588-00	768.0 .25 W 1.0 % RN55D-F10	1		R232
107	107		1313753-00	37.40 K .25 W 1.0 % RN55D-F10	2		R163,R204
108	108		1313841-00	23.20 K .25 W 1.0 % RN55D-F10	1		R215
109	109		1314187-00	6.19 K .25 W 1.0 % RN55D-F10	1		R187
110	110		1314252-00	130.0 K .25 W 1.0 % RN55D-F10	4		R124,R162,R164,R203
111	111		1314491-00	1.02 K .25 W 1.0 % RN55D-F10	1		R194
112	112		1314989-00	11.30 K .25 W 1.0 % RN55D-F10	4		R227,R228,R230,R231
113	113		1315240-00	.10 3.0 W 1.0 % WW	1		R265
114	114		1316575-00	10.0 2.0 W 5.0 % CC	4		R250,R251,R259,R260
115	115		1316844-00	301.0 .50 W 1.0 % RN60D-F10	6		R32,R57,R252,R258,R300,R301
116	116		1318981-01	82.0 3.0 W 5.0 % WW	6		R262-R264,R462-R464
117	117		1509900-00	2N 4859 FET 360MW SIN CHNNL	1		Q9
118	118		1510421-00	D 44C8 NPN 30WT SI 60 20	1		Q14
119	119		1511282-00	MJ2500 PNP 150WC SI 60 5 1K 5A	1		Q10
120	120		1511349-00	TIP 640 (OR MJ3000) NPN DARLINGT	1		Q13
121	121		1519472-01	2N 4209 PNP 300MW 15V@50MA	5		Q1-Q5
122	122		1513489-00	2N 4401 NPN 350MW SI 40 20	2		Q6,Q7
123	123		1513490-00	2N 4403 PNP 350MW SI-40 30	1		Q8
124	124		1612946-04	6.8 UH 10% 350MA	2		L1,L2
125	125		1612946-05	18 UH 10% 260MA	2		L3,L4
126	126		1616879-00	INDUCTOR 1.12UH 1% 370MA	1		L5
127	127		1618544-00	DELAY= 250NS, STAPS	2		E135,E147
128	128		1910268-00	DEC 75107B RECEIVER,LINE,DUAL,	1		E59
129	129		1910532-00	74S00 NAND GATE-QUAD 2IN	2		E24,E47
130	130		1910533-00	74S03 NAND GATE-QUAD 2IN,0	1		E36
131	131		1910536-00	74S10 NAND GATE-TRIPLE 3IN	2		E23,E35
132	132		1910537-00	74S11 AND GATE-TRIPLE 3INP	1		E49
133	133		1910540-00	74S22 NAND GATE-DUAL 4INPU	1		E22
134	134		1910544-00	74S74 FF-D DUAL,EDGE TRIGG	3		E13,E48,E154
135	135		1910644-00	733 DIFFERENTIAL AMP,WID	1		E72
136	136		1910741-00	7406 INVERTER GATE-HEX 1I	1		E55
137	137		1911415-00	10125 ECL TO TTL TRNSLTR	1		E2
138	138		1911629-00	1408L8 DAC, 8BIT	1		E43
139	139		1912108-00	339 VOLT CMPRTR,QUAD	3		E56,E58,E66
140	140		1912792-01	7915CKVOLT REG,FIX -15V	1		Q12
141	141		1912799-00	LS00 NAND-GATE-QUAD 2IN,P	5		E6,E31,E40,E41,E50
142	142		1912803-00	LS04 INVERTER GATE,HEX	3		E3,E7,E29
143	143		1912810-00	LS20 NAND GATE-DUAL 4IN	1		E5
144	144		1912815-00	LS30 NAND GATE-SINGLE 8IN	1		E15
145	145		1912824-00	LS74 FF-D DUAL,EDGE TRIGG	7		E17,E25,E27,E30,E51,E60,E122
146	146		1912829-00	LS86 X-OR GATE-QUAD 2IN	1		E88
147	147		1912834-00	LS112 FF-JK,DUAL,EDGE TRIG	1		E4
148	148		1912837-00	LS123 ONE SHOT-DUAL,RETRIG	3		E52-E54
149	149		1912849-00	LS161 COUNTER,SYNCHR,4BIT	1		E26
150	150		1912850-00	LS164 SHIFT REG. 8BIT SERI	1		E28

D I G I T A L										TITLE										SERVO CONTROL										SECTION A OF A										SIZE										CODE										DOCUMENT NUMBER										REV									
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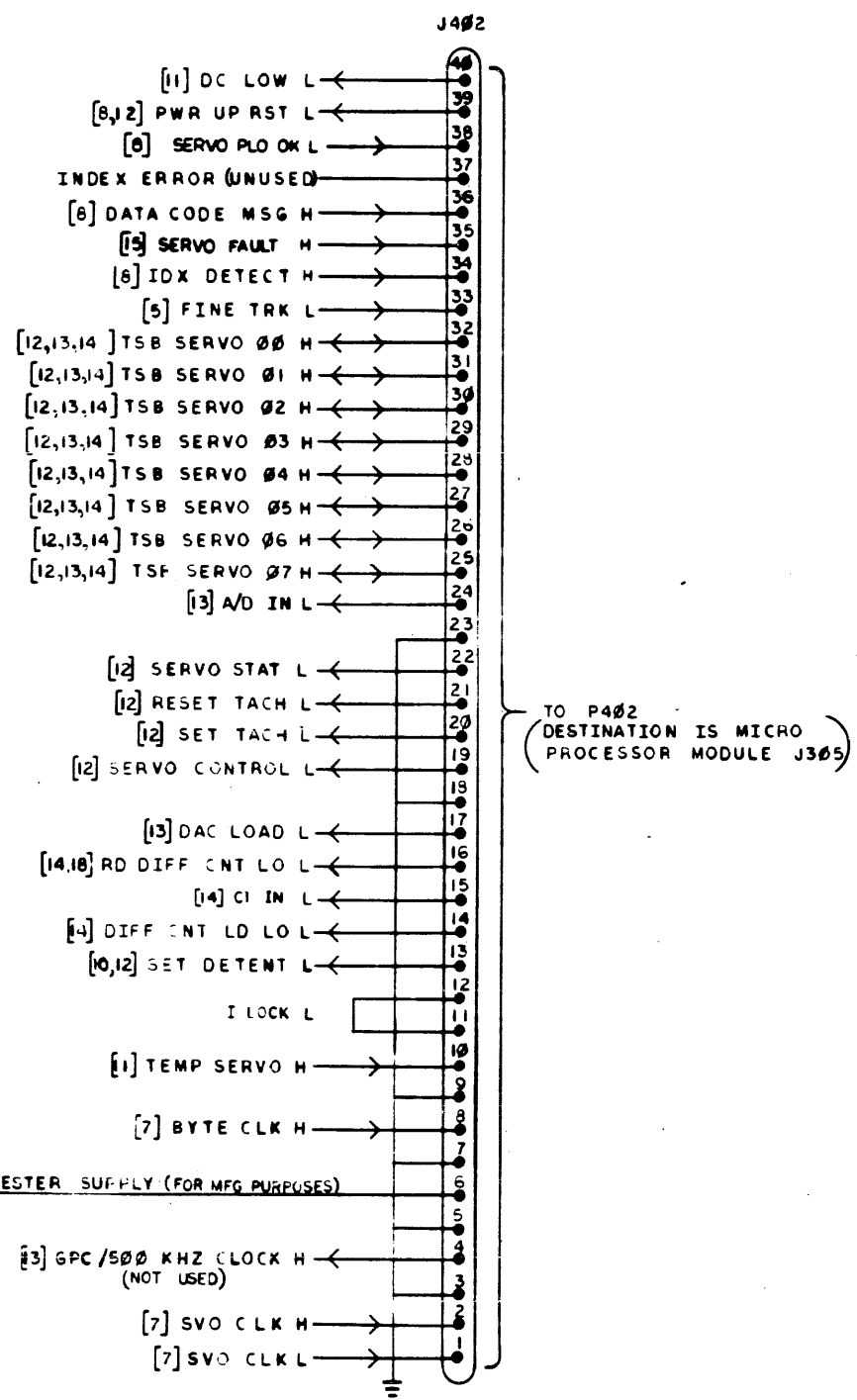
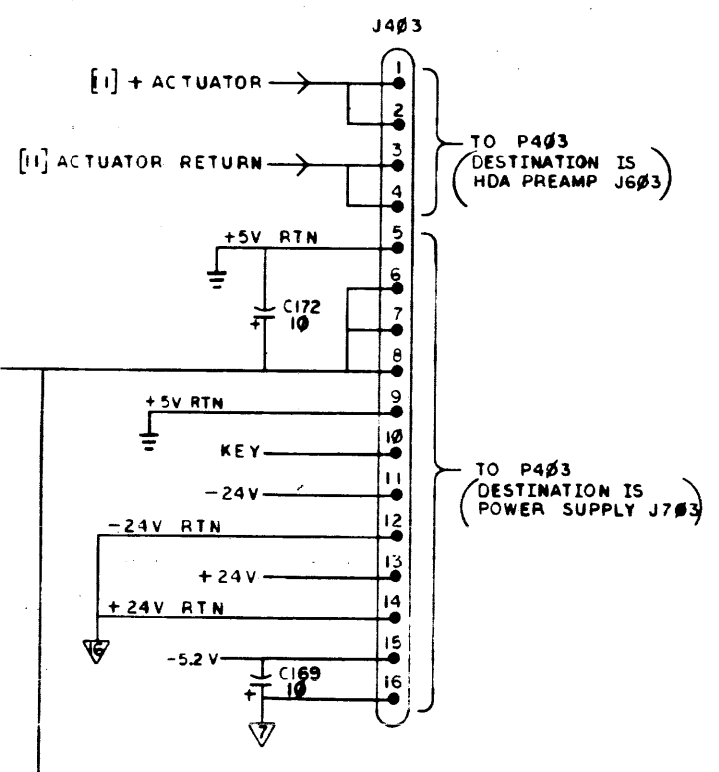
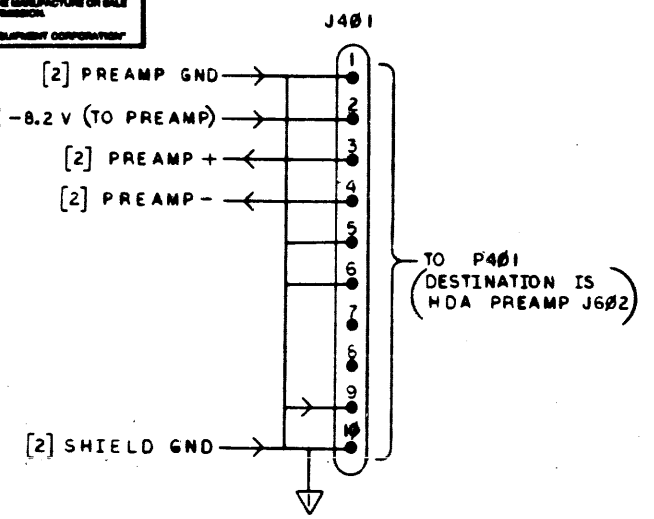
LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
151	151	1912854-00	LS193 COUNTER, SYNCHR, 4BIT,	2	E18, E19
152	152	1912858-00	LS221 ONE SHOT-DUAL, SCHMIT	1	E37
153	153	1912863-00	LS273 FF-D OCTAL W/CLEAR	3	E34, E38, E45
154	154	1913017-00	3046 XSISTOR ARRAY, 3 ISOL	6	E11, E62-E64, E68, E76
155	155	1913035-02	LM 308ANOP AMP GEN PURP. COM	2	E57, E71
156	156	1914473-00	DEC 7815 VOLT REG, FIX +15V	1	Q11
157	157	1914485-01	TL 084ACNOP AMP, QUAD JFET	7	E61, E67, E69, E70, E73, E74, E78
158	158	1915193-00	LS244 DRIVER, LINE, OCTAL, T	2	E20, E44
159	159	2119305-01	201 SWITCH, ANALOG, QUAD	5	E65, E75, E79, E80, E94
160	160	1916574-00	10114 RECEIVER, LINE, TRIPL	1	E1
161	161	23268A1-00	A1-07	1	E14
162	162	23341A1-00	A1-07	1	E39
163	163	9006010-01	SCREW, MACH PAN PHIL 4-	1	
164	164	9006022-01	SCREW, MACH PAN PHIL 6-	4	
165	165	9006025-01	SCREW, MACH PAN PHIL 6-	8	
166	166	9006557-00	NUT, HEX EXT TOOTH LCKWSHR 4-40	1	
167	167	9006560-00	NUT, HEX EXT TOOTH LCKWSHR 6-32	9	
168	168	9006656-00	WASHER, FLAT STEEL	12	
169	169	9007791-00	TERM PCB 2POS SOLDER, TURRET	2	PP1, PP2
170	170	9008172-00	WASHER, FLAT SST	1	
171	171	9009185-00	JUMPER, WIRE, INSULATED, BLACK B	20	W1-W8, W10, W11, W13, W14, W16, W18-W20, W22-W24, W27
172	172	9009676-00	TERM, SOLDER BARRIER STR	4	
173	173	9009898-00	TRANSIPAD, 4 HOLE	1	XQ9
174	174	9107256-11	TUBING, TEFLON .027ID	A/R	

175 NOTE: NOTE 1: ATTACH TUBING (ITEM 174) TO LEADS OF C28, C45 & C46.
 176 NOTE: NOTE 2: IF ANY OF THESE COMPONENTS (21-19305-01) ARE FROM NATIONAL
 177 NOTE: VENDOR 13201, DELETE. COMPONENTS (21-19305-01) FROM VENDORS
 178 NOTE: SILICONIX DG201 AND HARRIS HI-201 ARE ACCEPTABLE.

D	I	G	I	T	A	L	TITLE	SECTION A	OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							SERVO CONTROL			K	PL	5414014-0-DBP	J

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- NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL RESISTORS ARE 1/4 W, 1%. ALL RESISTOR VALUES ARE IN OHMS. ALL CAPACITOR VALUES ARE IN MICROFARADS.
 2. \perp LOGIC GROUND.
 ∇ ANALOG GROUND.
 3. ALL TEST PADS "TP"
 4. ASTERISK * DENOTES COMPONENTS NOT INSERTED (OPTIONAL).
 5. ① DENOTES 16 PIN IC SOCKETS.
② DENOTES 20 PIN IC SOCKETS.
③ DENOTES HEAT SINK MOUNTED.



TO P402
DESTINATION IS MICRO
PROCESSOR MODULE J305

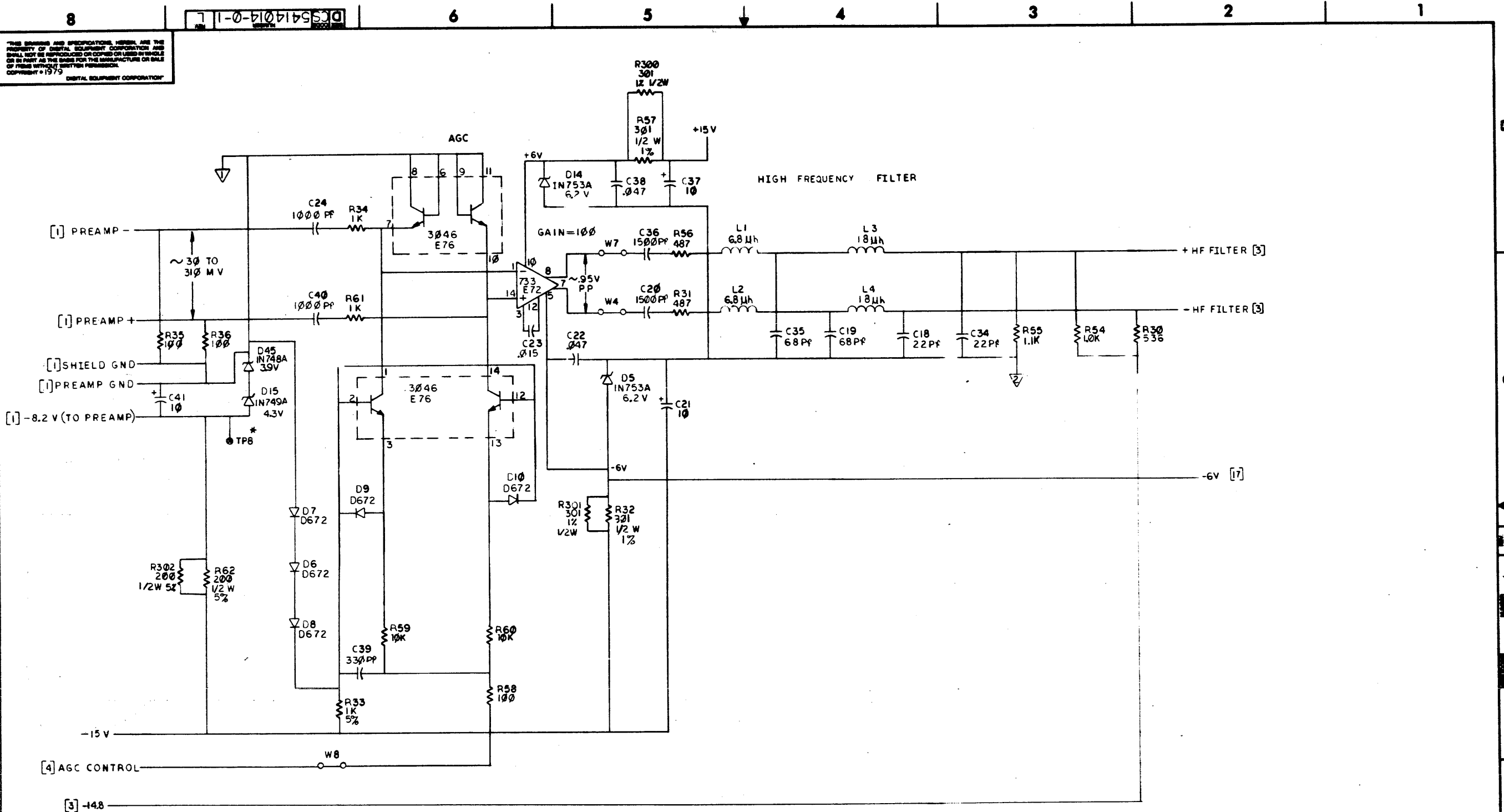
TO P403
DESTINATION IS
POWER SUPPLY J703

TO P401
DESTINATION IS
HDA PREAMP J602

REV.	DATE	DESCRIPTION
E		CHANGED PER ECO 5414014 - CXOZA G. HART
F	5/6/79	5414014 - C-108A G. HART
H	2/20/80	5414014 - C-108A K. DAVIS/TSEPRO B. RAY
J	5/1/80	5414014 - C-108A B. RAY
K	11/15/81	5414014 - C-108A T.F. 15 DEC 81 B. RAY
L	1/15/82	5414014 - C-108A S.L. 18 MAR 82 B. RAY

I/O		TITLE (SVI)
APPROVED	DATE	SERVO CONTROL
K. J. ...	3 JULY 79	
DESIGNED	DATE	SERVO CONTROL
F. ...	5-1-79	
CHECKED	DATE	SERVO CONTROL
L. ...	5-6-79	
TESTED	DATE	SERVO CONTROL
G. ...	5-28-79	
DOCUMENT NUMBER		
8-DD-5414014-0		DCS 5414014-0-1 L

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AGC & FILTER

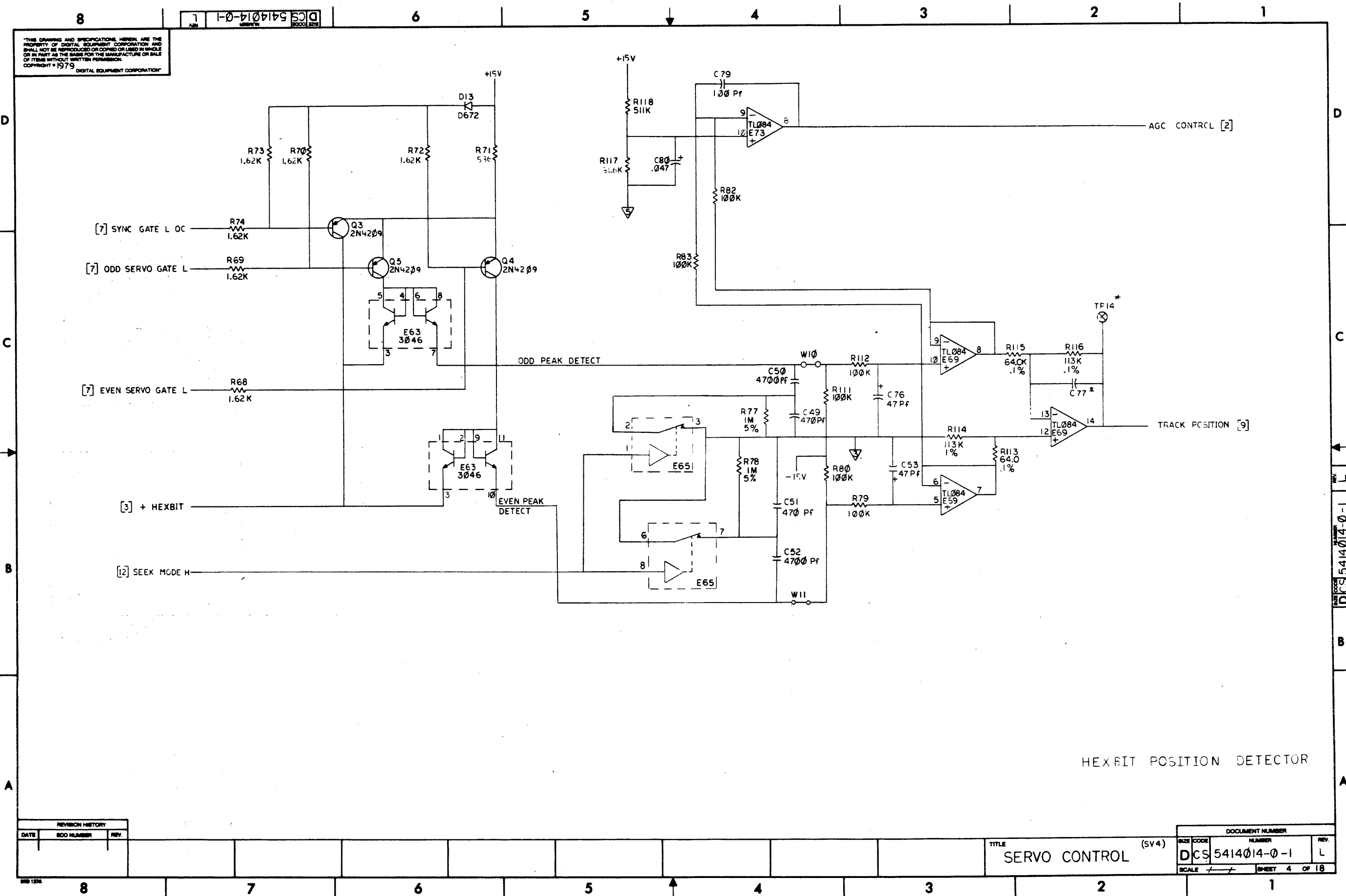
REVISION HISTORY		
DATE	ECO NUMBER	REV.

TITLE (SV2)
 SERVO CONTROL

DOCUMENT NUMBER		
REV.	NUMBER	REV.
L	5414014-0-1	L

SCALE: / / SHEET 2 OF 18

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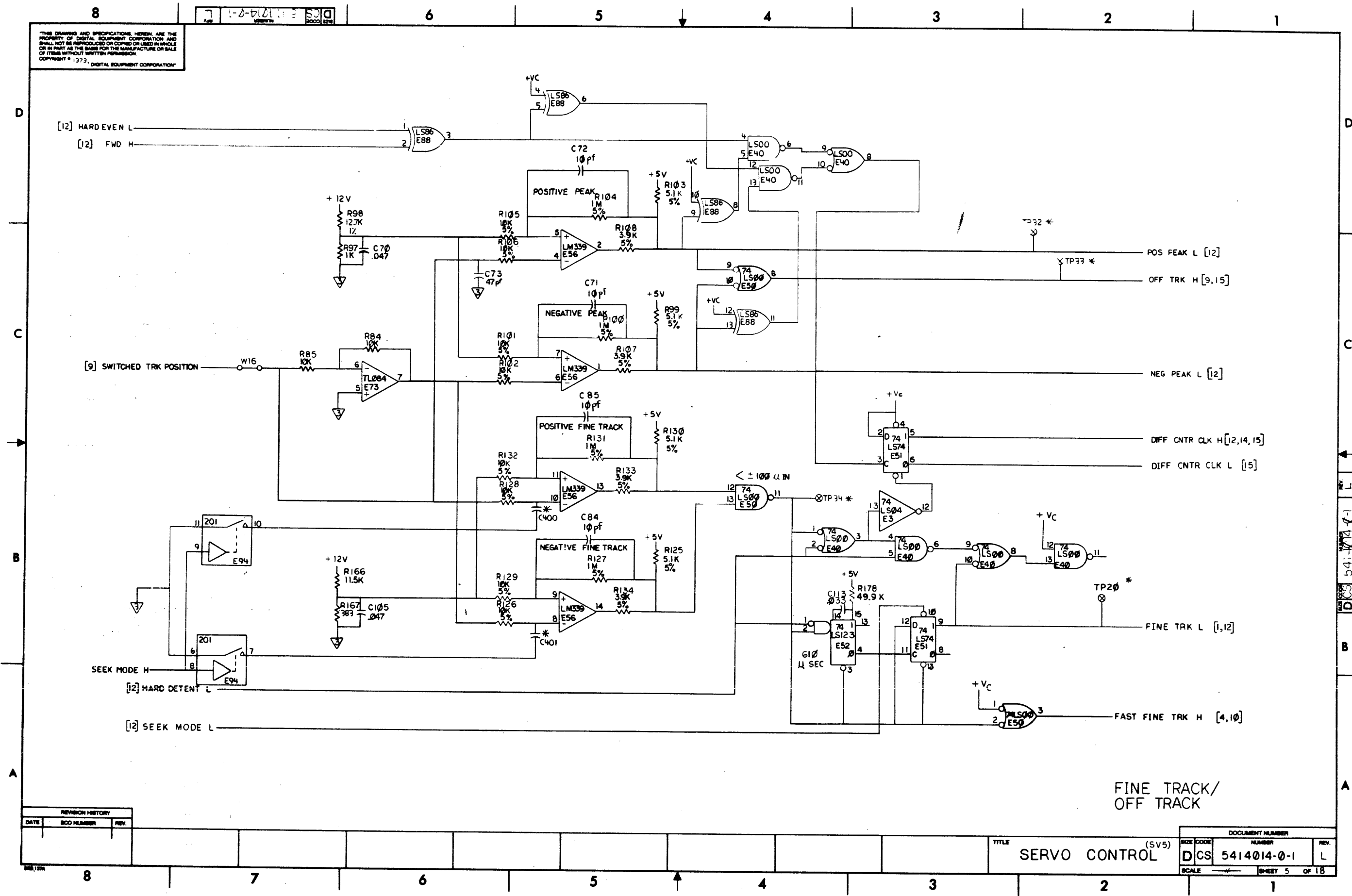
HEXBIT POSITION DETECTOR

REVISION HISTORY		
DATE	ECO NUMBER	REV.

TITLE SERVO CONTROL (SV4)

DOCUMENT NUMBER		
SIZE	NUMBER	REV.
DCS	5414014-0-1	L
SCALE	SHEET 4 OF 18	

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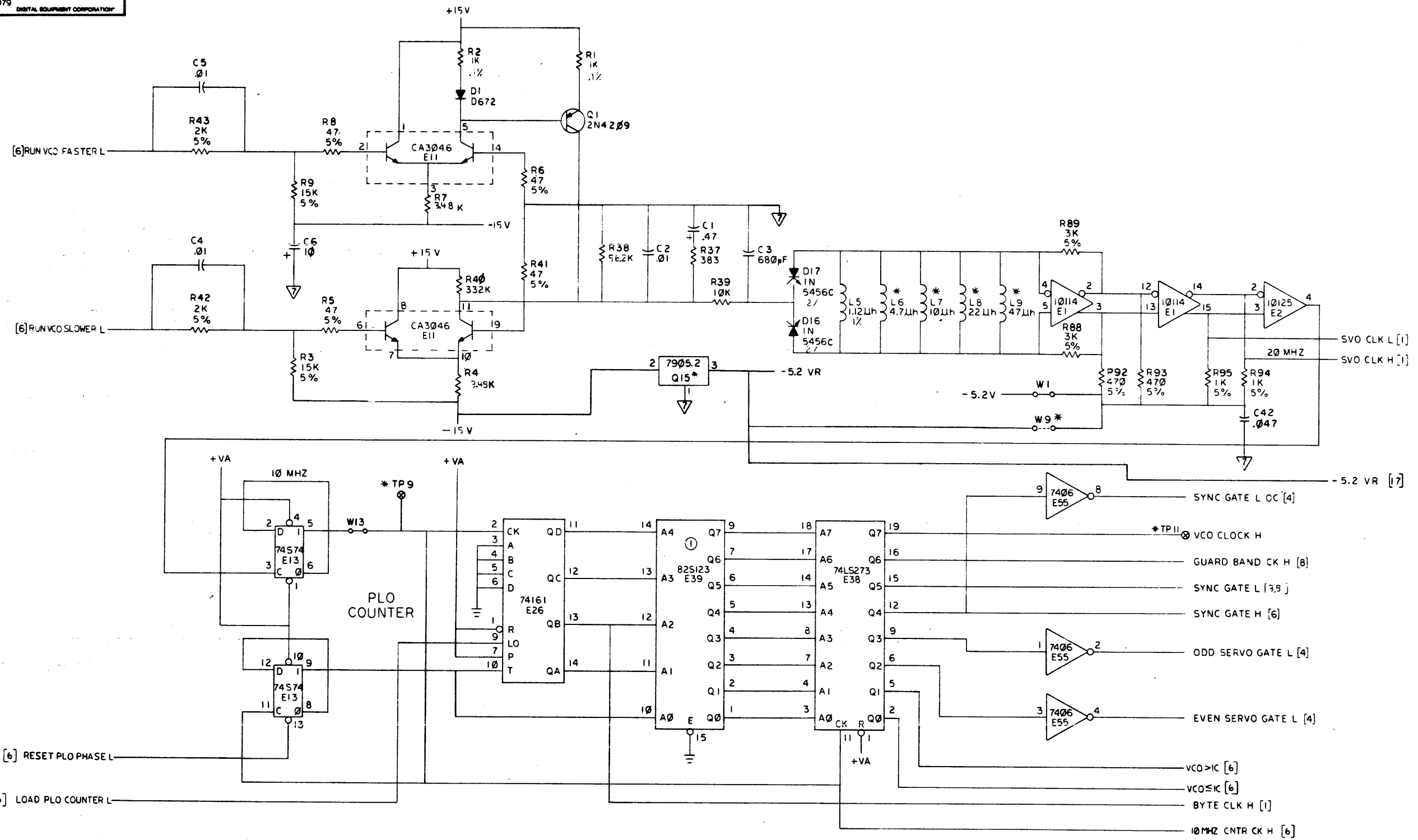
FINE TRACK/
OFF TRACK

REVISION HISTORY		
DATE	ECO NUMBER	REV.

TITLE SERVO CONTROL (SV5)

DOCUMENT NUMBER		
SIZE	CODE	NUMBER
D	CS	5414014-0-1
SCALE	REV.	SHEET 5 OF 18

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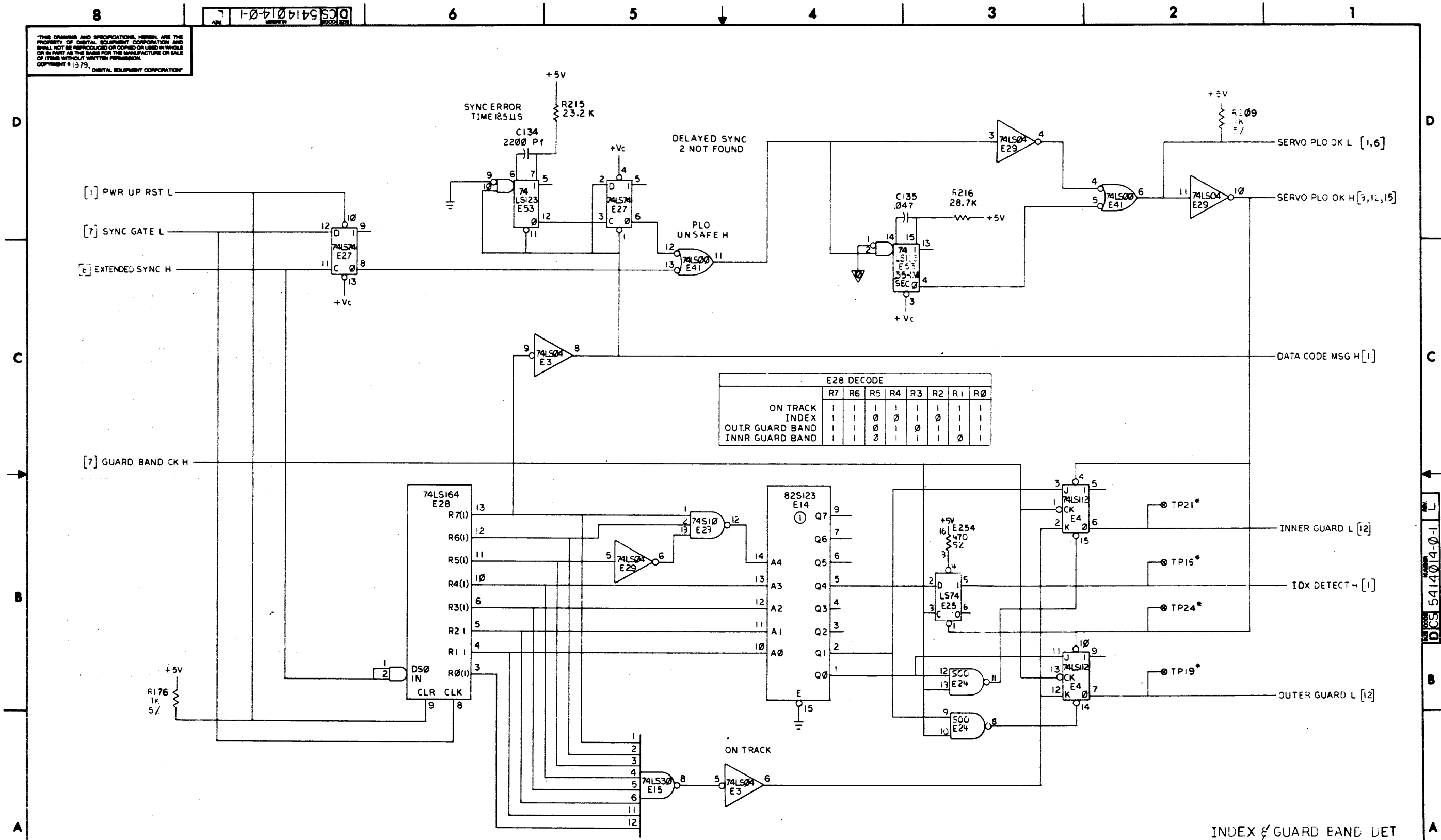
VCO & GATING

REVISION HISTORY		
DATE	ECO NUMBER	REV.

DOCUMENT NUMBER			
SIZE	CODE	NUMBER	REV.
DCS		5414014-0-1	L
SCALE		SHEET 7 OF 18	

SERVO CONTROL (SV7)

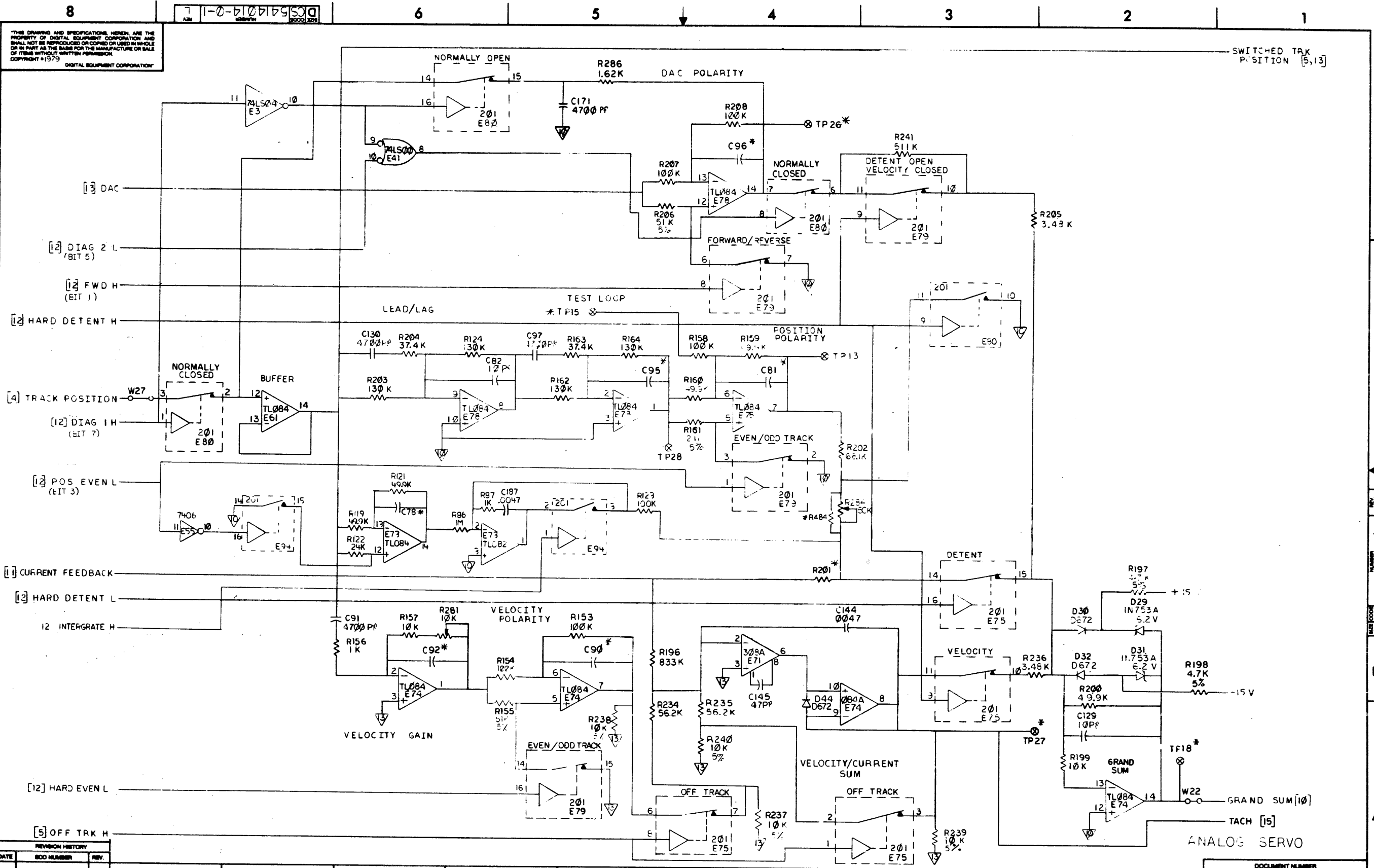
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REVISION HISTORY		
DATE	ECO NUMBER	REV.

TITLE SERVO CONTROL (SV8)

DOCUMENT NUMBER		
SIZE CODE	NUMBER	REV.
DCS	5414014-0-1	L
SCALE	SHEET 8 OF 18	

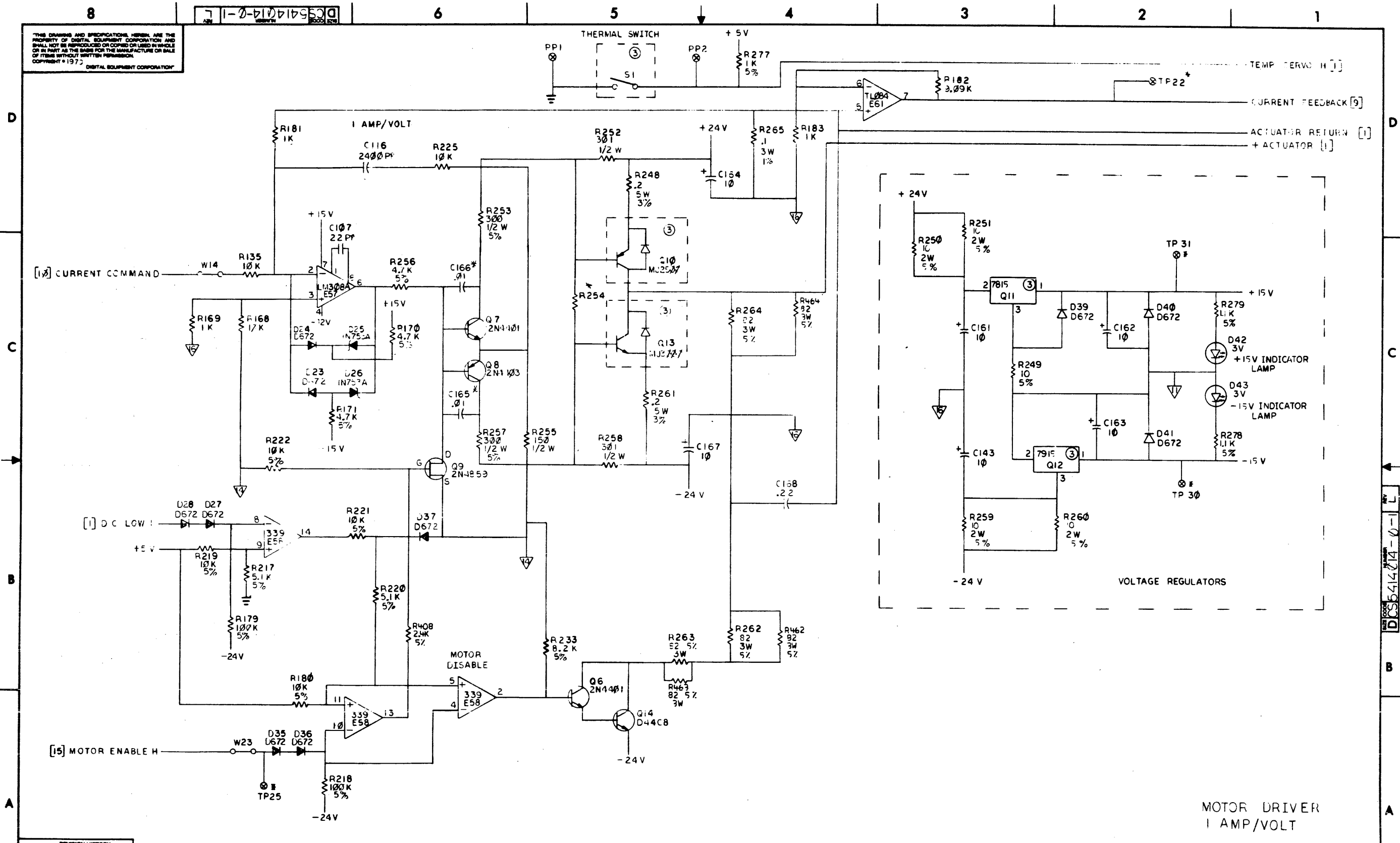


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REVISION HISTORY		
DATE	ECO NUMBER	REV.

TITLE		DOCUMENT NUMBER	
SERVO CONTROL (SV9)		DCS 5414-0-1	REV. L
SCALE	SHEET	9 OF 18	

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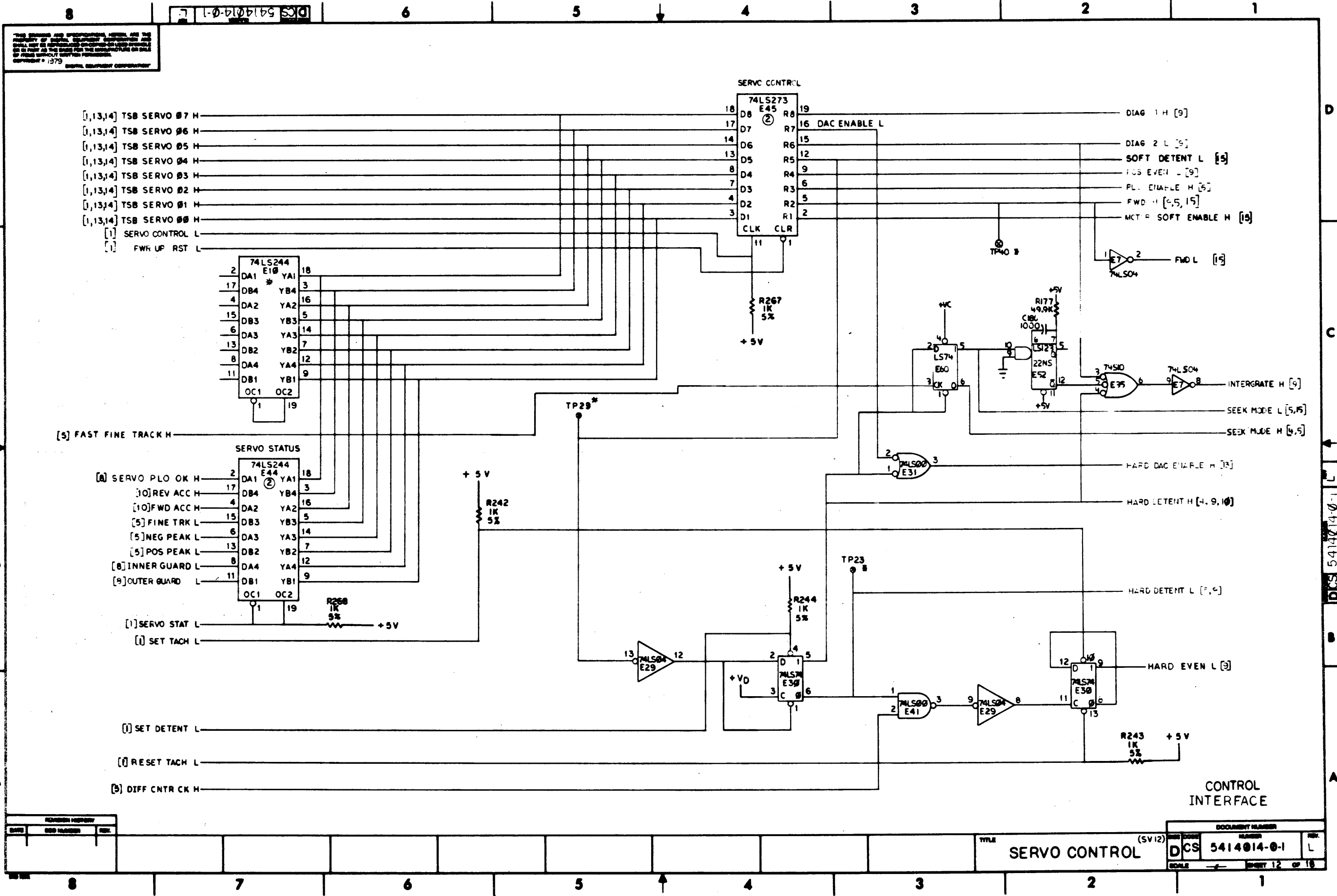


REVISION HISTORY		
DATE	ECO NUMBER	REV.

TITLE (CV11)
 SERVO CONTROL

DOCUMENT NUMBER		
SIZE CODE	NUMBER	REV.
DCS	5414014-0-1	

SCALE: / / SHEET 11 OF 18



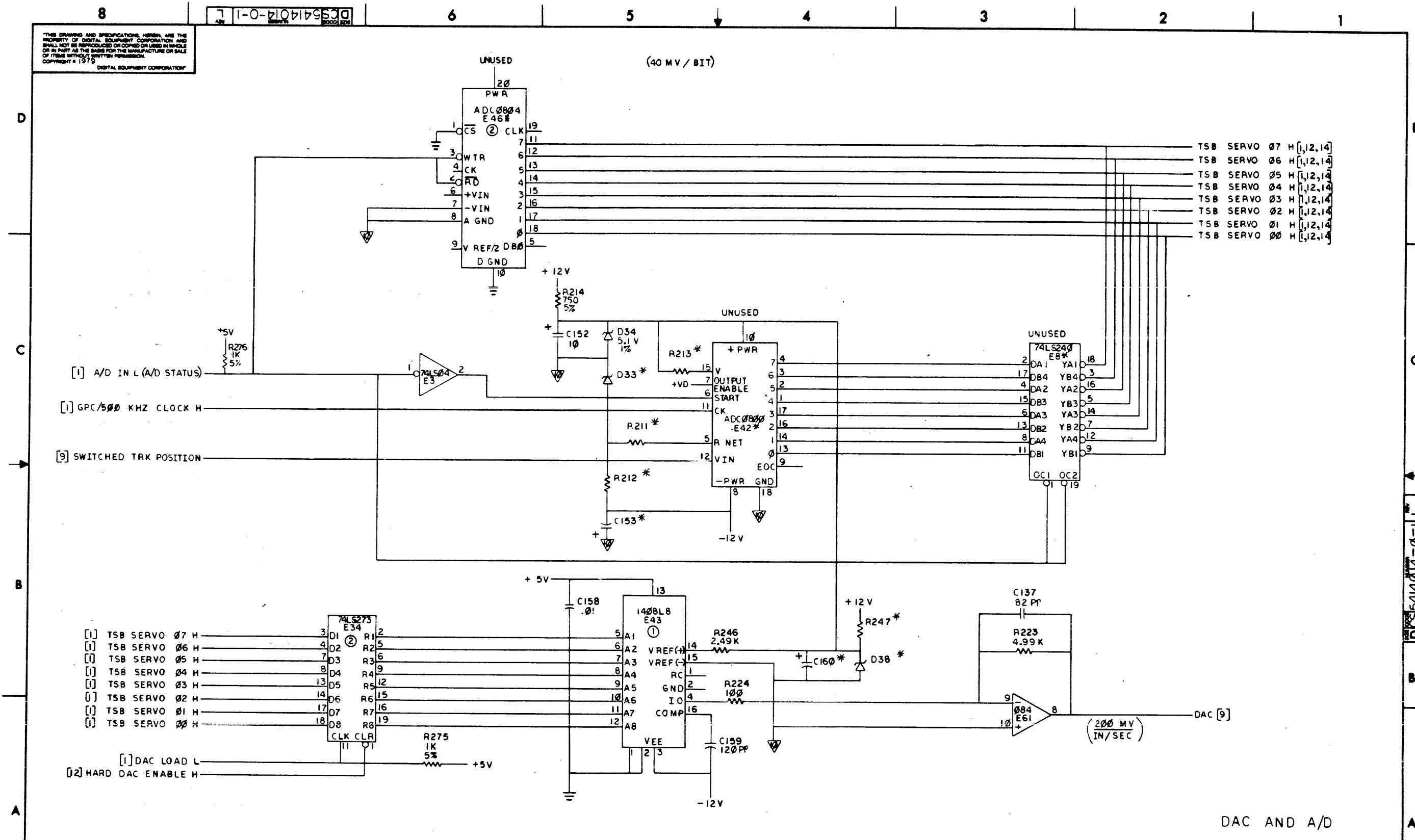
REV	DESCRIPTION	DATE

TITLE: SERVO CONTROL (SV12)

DOCUMENT NUMBER		
FORM	ISSUED	REV.
DCS	5414014-0-1	L
SCALE	SHEET 12 OF 18	

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DCS 5414014-0-1

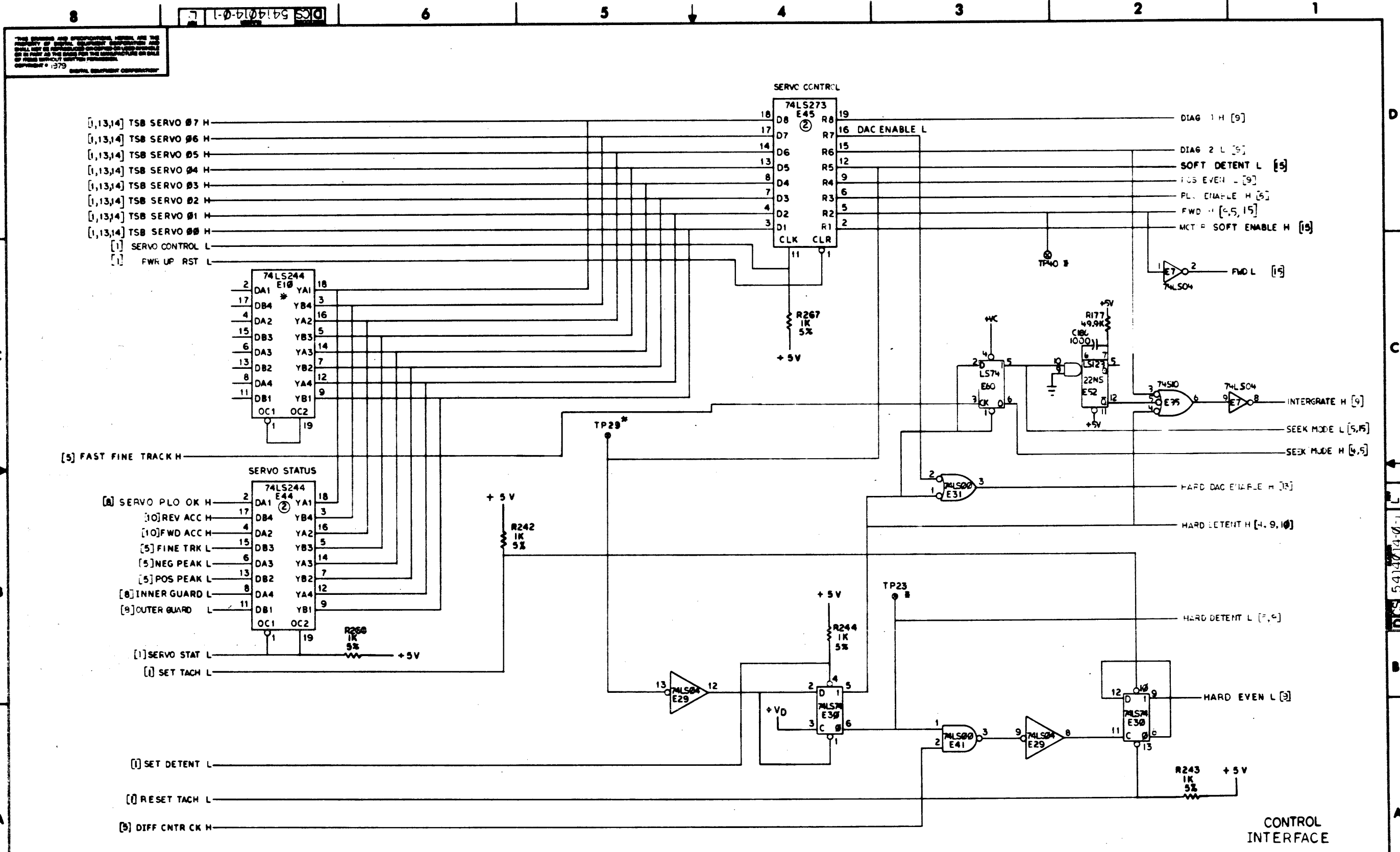


REVISION HISTORY		
DATE	ECO NUMBER	REV.

TITLE (SV13)
SERVO CONTROL

DOCUMENT NUMBER		
SIZE CODE	NUMBER	REV.
DCS	5414014-0-1	L
SCALE	1/1	SHEET 3 OF 8

DCS 5414014-0-1 L



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 DEPARTMENT 1379 DIGITAL EQUIPMENT CORPORATION

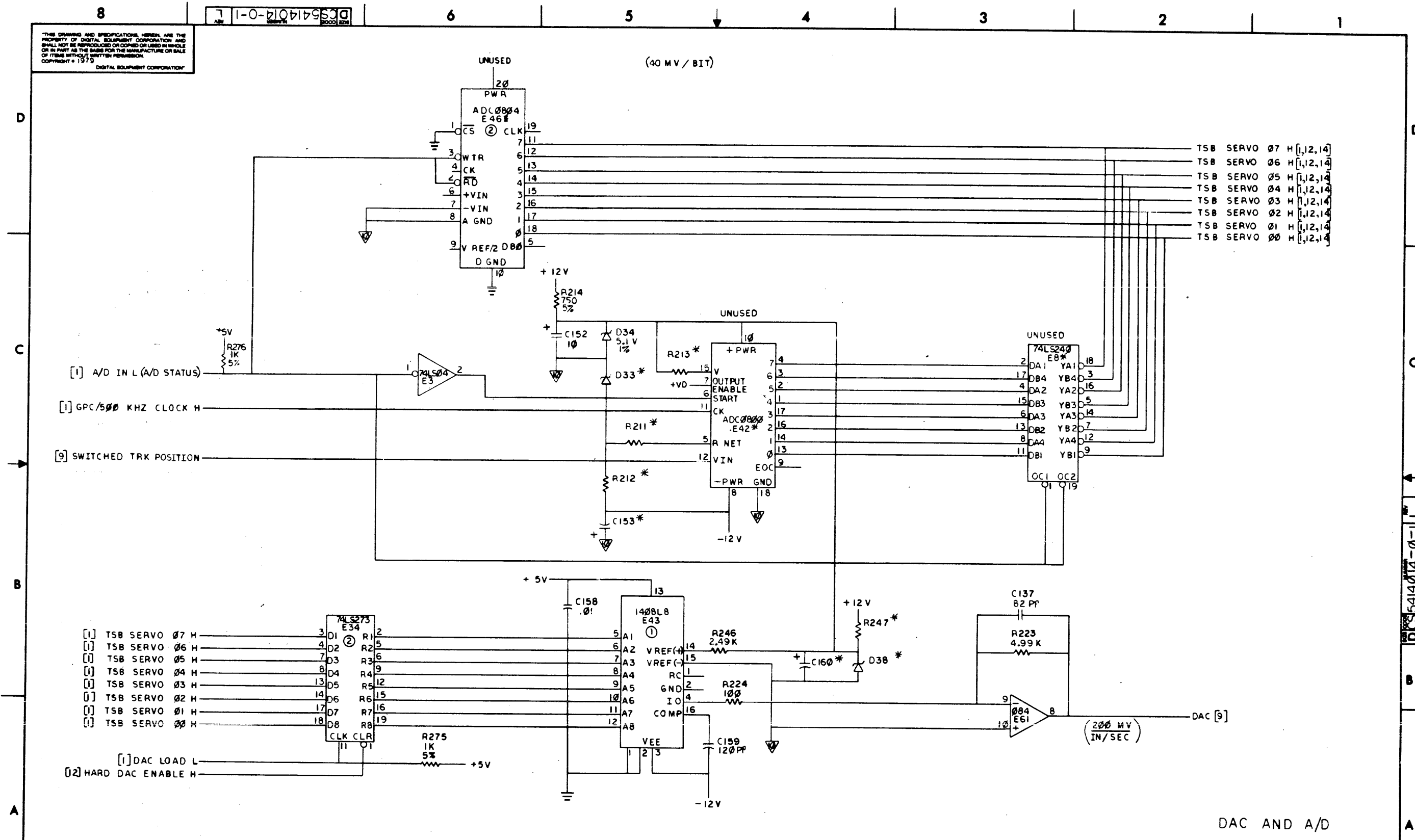
REVISION HISTORY			DOCUMENT NUMBER		
DATE	ISS NUMBER	REV.	DCS	5414014-0-1	L
			SCALE	FIGURE 12 OF 18	

TITLE: SERVO CONTROL (SV12)

DCS 5414014-0-1 L

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DCS 5414014-0-1 L



- TSB SERVO 07 H [1,2,14]
- TSB SERVO 06 H [1,2,14]
- TSB SERVO 05 H [1,2,14]
- TSB SERVO 04 H [1,2,14]
- TSB SERVO 03 H [1,2,14]
- TSB SERVO 02 H [1,2,14]
- TSB SERVO 01 H [1,2,14]
- TSB SERVO 00 H [1,2,14]

- [1] A/D IN L (A/D STATUS)
- [1] GPC/500 KHZ CLOCK H
- [9] SWITCHED TRK POSITION

- [1] TSB SERVO 07 H
- [1] TSB SERVO 06 H
- [1] TSB SERVO 05 H
- [1] TSB SERVO 04 H
- [1] TSB SERVO 03 H
- [1] TSB SERVO 02 H
- [1] TSB SERVO 01 H
- [1] TSB SERVO 00 H
- [1] DAC LOAD L
- [2] HARD DAC ENABLE H

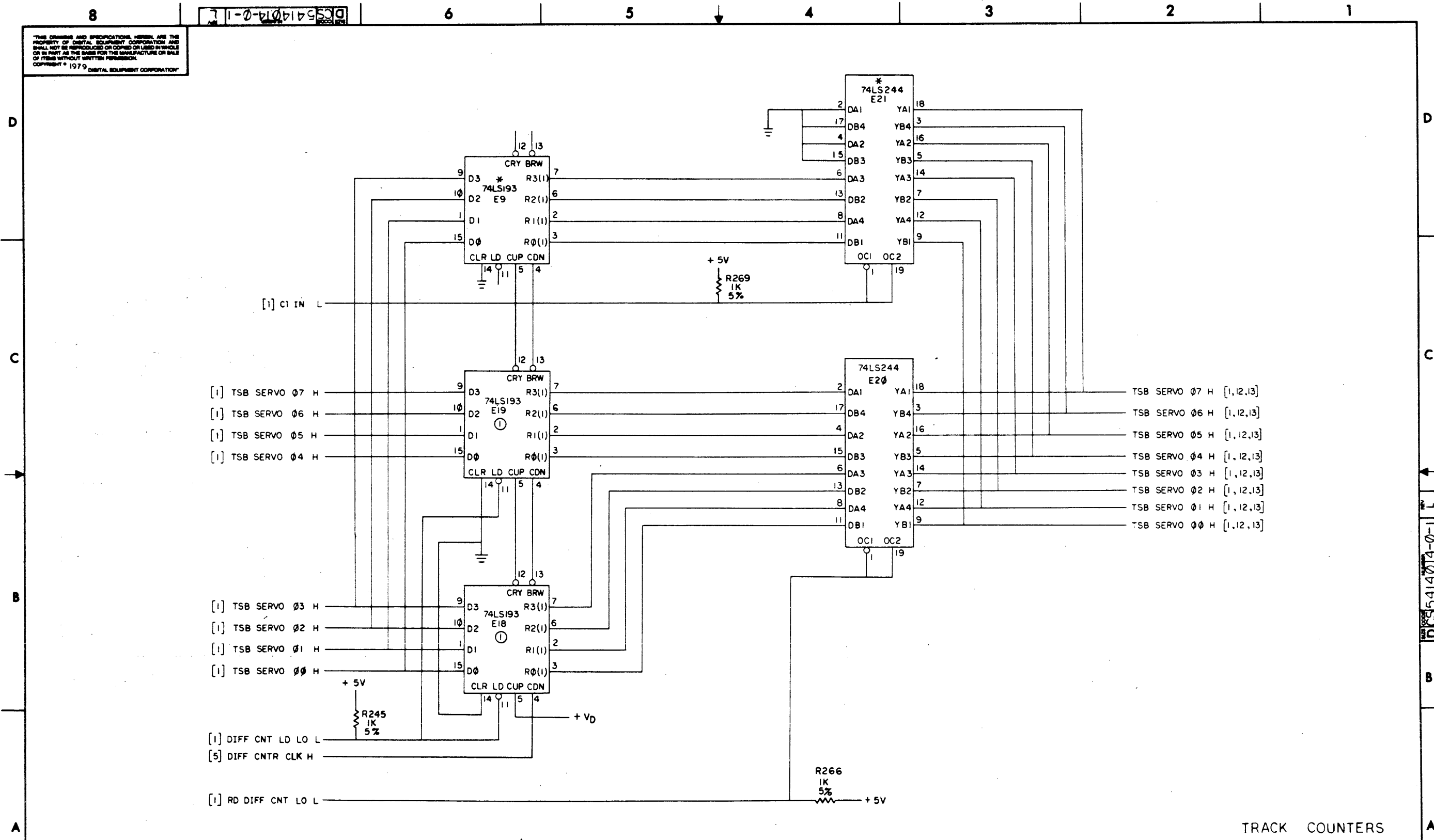
DAC AND A/D

REVISION HISTORY		
DATE	ECO NUMBER	REV.

TITLE SERVO CONTROL (SV13)

DOCUMENT NUMBER		
REV. CODE	NUMBER	REV.
DCS	5414014-0-1	L

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TRACK COUNTERS

REVISION HISTORY		
DATE	ECO NUMBER	REV.

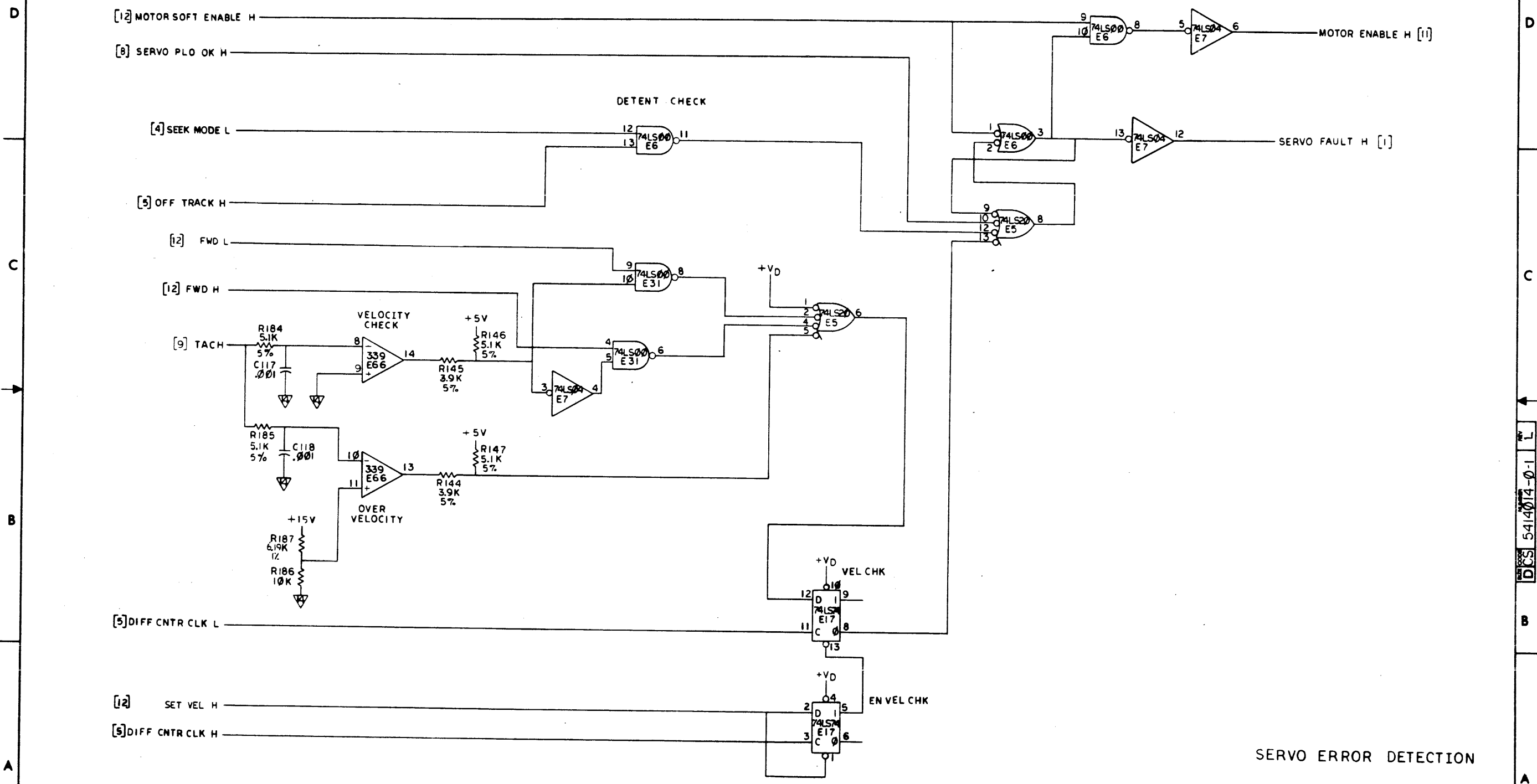
TITLE (SV14)
 SERVO CONTROL

DOCUMENT NUMBER		
SIZE	CODE	NUMBER
DCS	5414014-0-1	L

SCALE SHEET 14 OF 18

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DCS 5414014-0-1



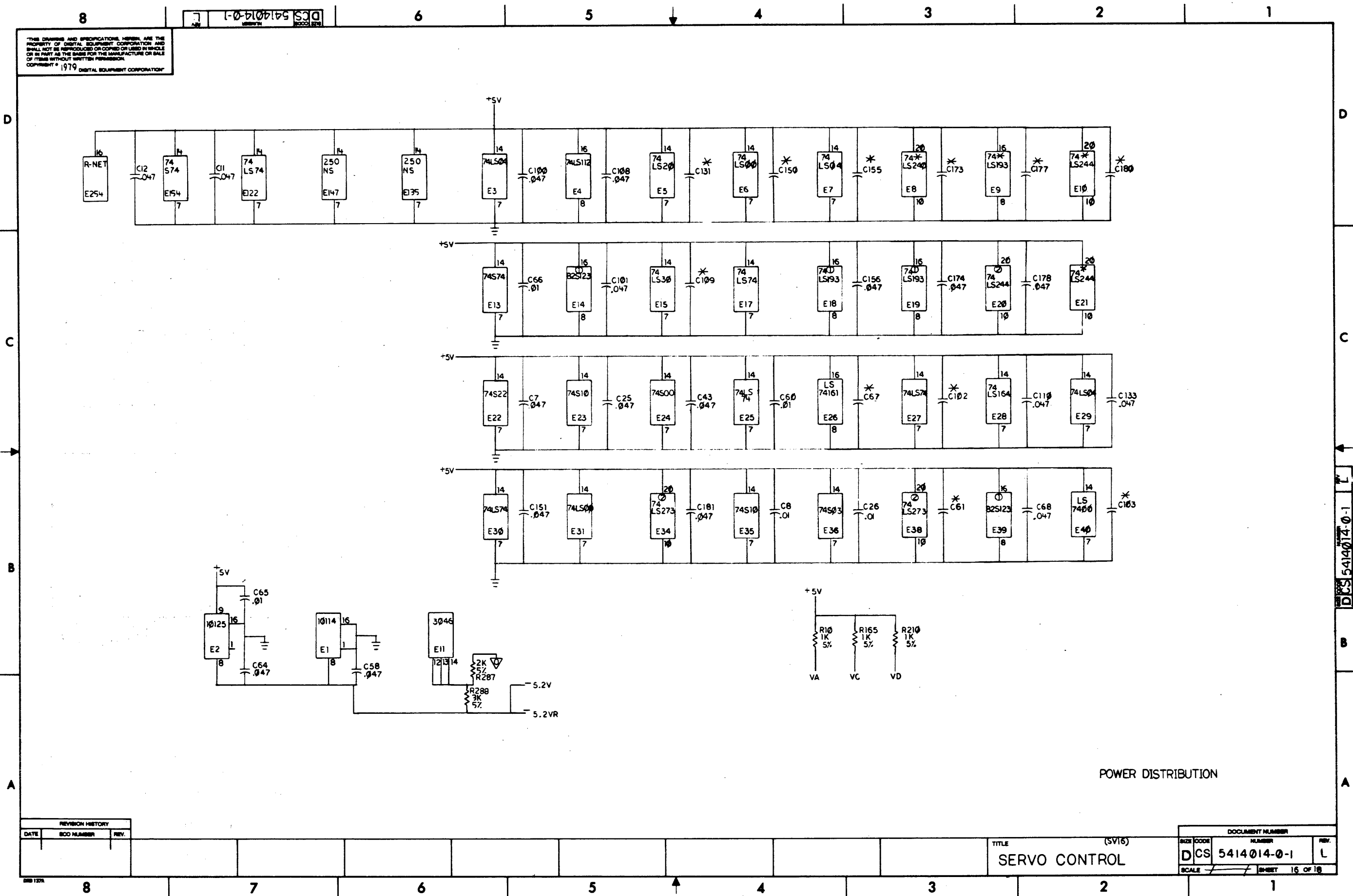
SERVO ERROR DETECTION

REVISION HISTORY		
DATE	ECO NUMBER	REV.

TITLE (SV15)
SERVO CONTROL

DOCUMENT NUMBER		
SIZE CODE	NUMBER	REV.
DCS	5414014-0-1	L
SCALE	SHEET 5 OF 8	

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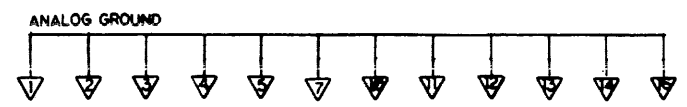
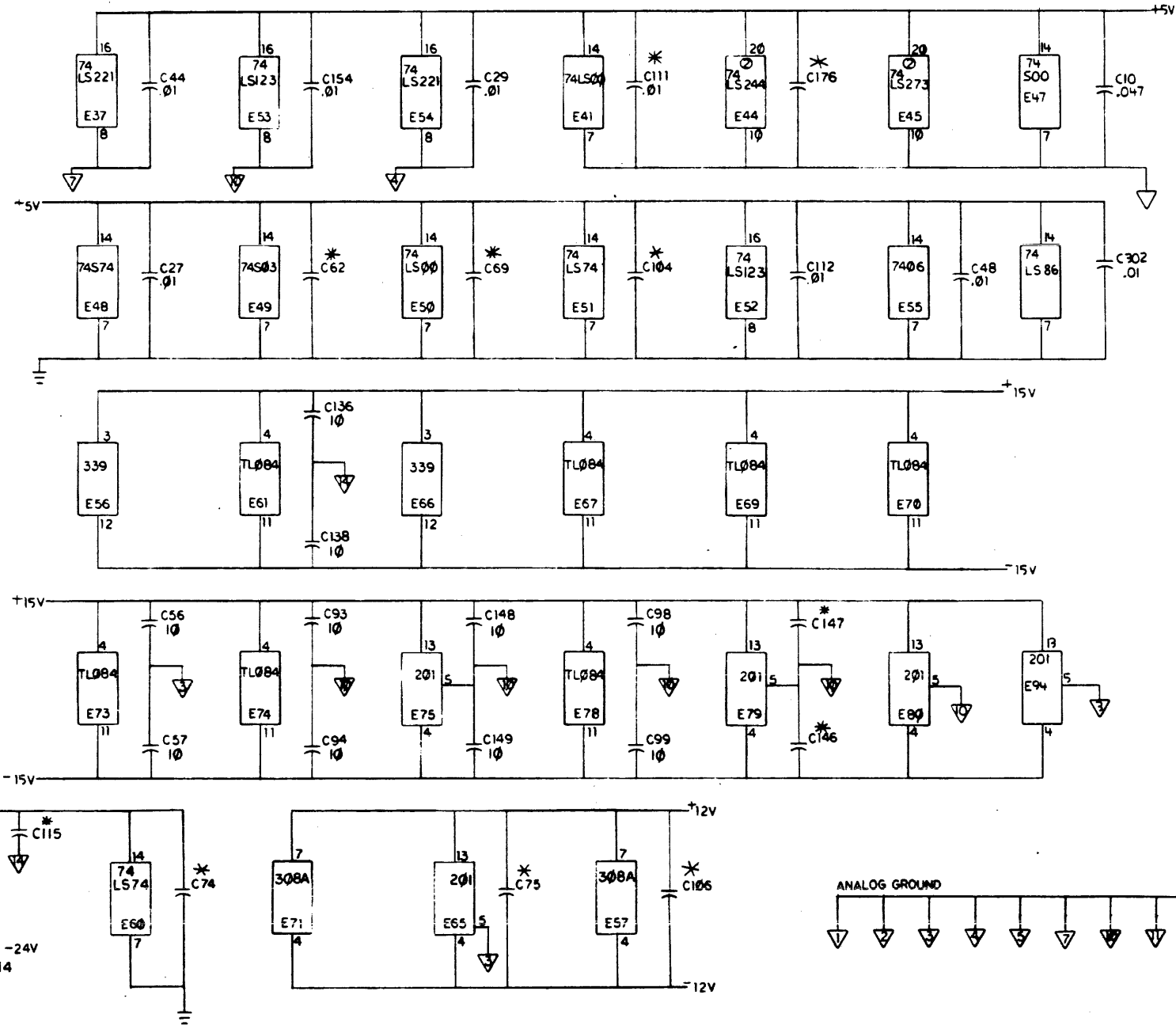
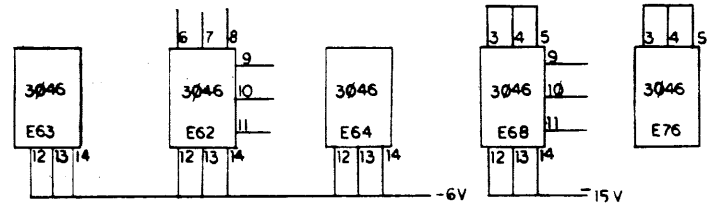


REVISION HISTORY		
DATE	DOC NUMBER	REV.

DOCUMENT NUMBER		
SIZE CODE	NUMBER	REV.
D	CS 5414014-0-1	L
SCALE		SHEET 15 OF 18

TITLE (SV15)
 SERVO CONTROL

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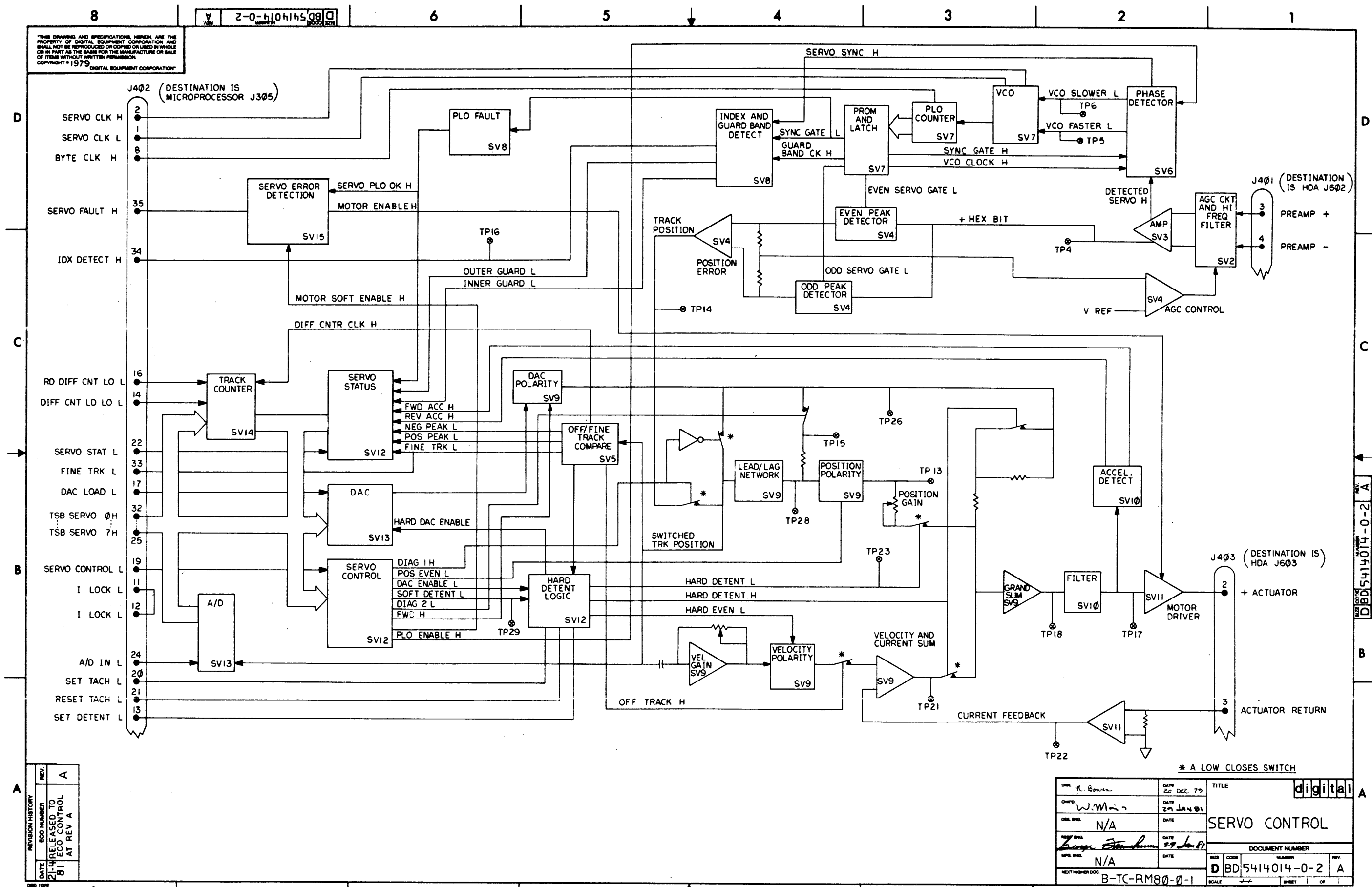
POWER DISTRIBUTION

REVISION HISTORY		
DATE	ECO NUMBER	REV.

TITLE (SV17)
 SERVO CONTROL

DOCUMENT NUMBER		
SIZE CODE	NUMBER	REV.
DCS	5414014-0-1	L
SCALE	SHEET	17 OF 18

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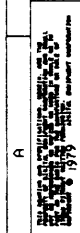


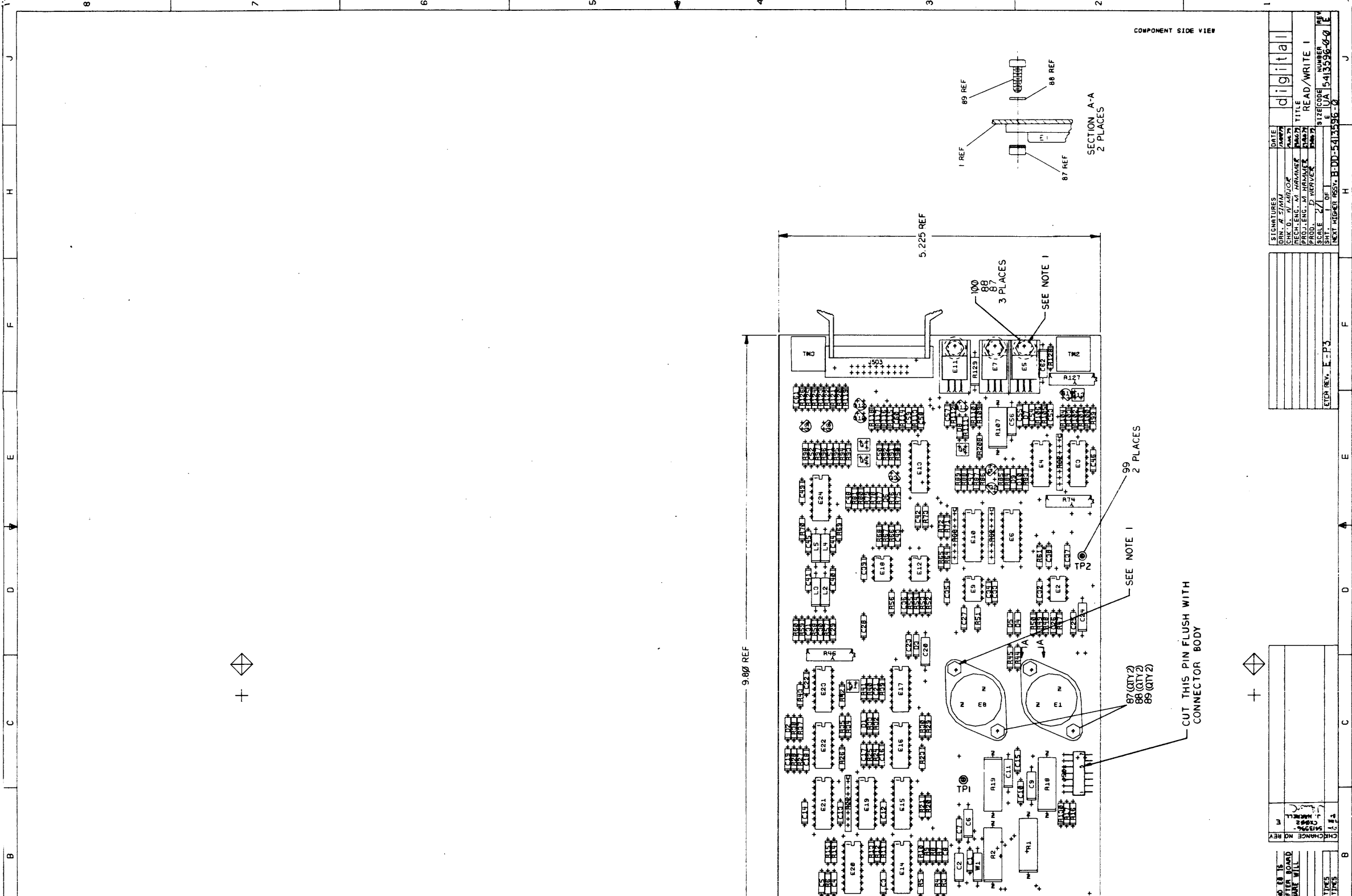
* A LOW CLOSES SWITCH

REVISION HISTORY	REV	A
DATE	21-11-81	RELEASED TO ECO CONTROL AT REV A

DRN	A. Bowen	DATE	20 DEC 79	TITLE	digital
CHG	W.M. ...	DATE	29 JAN 81		
DEL ENL	N/A	DATE			
REV ENL	<i>[Signature]</i>	DATE	29 Jan 81		
NEXT HIGHER DOC	B-TC-RM80-0-1				
DOCUMENT NUMBER				D BD 5414014-0-2 A	
SCALE		SHEET		OF	

REV 5414014-0-2 A


 MICROFILM
 SERVICE
 DIVISION
 300 NORTH ZEEB ROAD
 ANN ARBOR, MICHIGAN 48106



COMPONENT SIDE VIEW

NOTES:
 1. THE HARDWARE NOTED ON E2 AND E3 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 2. THE HARDWARE NOTED ON E4 AND E5 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 3. THE HARDWARE NOTED ON E6 AND E7 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 4. THE HARDWARE NOTED ON E8 AND E9 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 5. THE HARDWARE NOTED ON E10 AND E11 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 6. THE HARDWARE NOTED ON E12 AND E13 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 7. THE HARDWARE NOTED ON E14 AND E15 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 8. THE HARDWARE NOTED ON E16 AND E17 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 9. THE HARDWARE NOTED ON E18 AND E19 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 10. THE HARDWARE NOTED ON E20 AND E21 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 11. THE HARDWARE NOTED ON E22 AND E23 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 12. THE HARDWARE NOTED ON E24 AND E25 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 13. THE HARDWARE NOTED ON E26 AND E27 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 14. THE HARDWARE NOTED ON E28 AND E29 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 15. THE HARDWARE NOTED ON E30 AND E31 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 16. THE HARDWARE NOTED ON E32 AND E33 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 17. THE HARDWARE NOTED ON E34 AND E35 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
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 19. THE HARDWARE NOTED ON E38 AND E39 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 20. THE HARDWARE NOTED ON E40 AND E41 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 21. THE HARDWARE NOTED ON E42 AND E43 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 22. THE HARDWARE NOTED ON E44 AND E45 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 23. THE HARDWARE NOTED ON E46 AND E47 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 24. THE HARDWARE NOTED ON E48 AND E49 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 25. THE HARDWARE NOTED ON E50 AND E51 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 26. THE HARDWARE NOTED ON E52 AND E53 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
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 28. THE HARDWARE NOTED ON E56 AND E57 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 29. THE HARDWARE NOTED ON E58 AND E59 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 30. THE HARDWARE NOTED ON E60 AND E61 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 31. THE HARDWARE NOTED ON E62 AND E63 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 32. THE HARDWARE NOTED ON E64 AND E65 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 33. THE HARDWARE NOTED ON E66 AND E67 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 34. THE HARDWARE NOTED ON E68 AND E69 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 35. THE HARDWARE NOTED ON E70 AND E71 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 36. THE HARDWARE NOTED ON E72 AND E73 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 37. THE HARDWARE NOTED ON E74 AND E75 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 38. THE HARDWARE NOTED ON E76 AND E77 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 39. THE HARDWARE NOTED ON E78 AND E79 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 40. THE HARDWARE NOTED ON E80 AND E81 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 41. THE HARDWARE NOTED ON E82 AND E83 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 42. THE HARDWARE NOTED ON E84 AND E85 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 43. THE HARDWARE NOTED ON E86 AND E87 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 44. THE HARDWARE NOTED ON E88 AND E89 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 45. THE HARDWARE NOTED ON E90 AND E91 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 46. THE HARDWARE NOTED ON E92 AND E93 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 47. THE HARDWARE NOTED ON E94 AND E95 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 48. THE HARDWARE NOTED ON E96 AND E97 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 49. THE HARDWARE NOTED ON E98 AND E99 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.
 50. THE HARDWARE NOTED ON E100 AND E101 IS NOT TO BE INSTALLED UNTIL AFTER BOARD HAS BEEN MOUNTED TO THE CASE.

CHANGES
 NO. REV.

ETCN REV. E-P3

SIGNATURES	DATE	digital
DRN. A. STAMM	1/1/71	
CHK. D. W. JAMES	1/1/71	
DESIGNER	DATE	TITLE
PROJ. ENG. A. JAMES	1/1/71	READ/WRITE I
PROJ. ENG. J. WATKINS	1/1/71	
SCALE 2/1	SIZE CODE	NUMBER
SHT. 1 OF 1	6	UA 15-13596-0-0
NEXT HIGH PRIORITY: E-00-5413596-0		

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
1	1	5013595-00	DRILL & ETCH BD	1	
2	2	1013466-30	560.0 MMF 50V 5Z CER	1	C54
3	3	1214434-00	HEADER.100 7POS RT ANGLE	1	J501
4	4	1916543-00	7806 VOLT REG, FIX +6V	1	E11
5	5	1916574-00	10114 RECEIVER, LINE, TRIPL	3	E14, E15, E21
6	6	1013466-13	39.0 MMF 50V 5Z CER	3	C4, C44, C45
7	7	1013466-07	220.0 MMF 50V 5Z CER	3	C32, C35, C39
8	8	1013466-06	100.0 MMF 50V 5Z CER	2	C40, C41
9	9	1216832-00	HEADER 05 20POS WITH LATCHES	1	J503
10	10	1316839-00	715.0 .25 W 1.0 Z RN55D-F10	2	R23, R26
11	11	1316837-00	412.0 .25 W 1.0 Z RN55D-F10	1	R48
12	12	1316842-00	6.34 K .25 W 1.0 Z RN55D-F10	1	R72
13	13	1316840-00	931.0 .25 W 1.0 Z RN55D-F10	1	R100
14	14	1316836-00	402.0 .25 W 1.0 Z RN55D-F10	2	R121, R122
15	15	1316845-00	3.30 .50 W 5.0 Z CC	1	R129
16	16	1216832-03	HEADER 50POS WITH LATCHES	1	J502
17	17	1001610-00	.01 MFD 50V +80-20% Z5UCER	39	C1, C3, C5, C7, C8, C10, C12-C19, C22, C23, C25-C28, C30, C33, C34, C36, C37, C42, C43, C46-C50, C53, C55, C57-C61
18	18	1002431-00	2.2MFD 35V 10Z 150S S.TA	5	C2, C6, C9, C11, C56
19	19	1004813-00	10 MFD 20V 10Z S.TANT	2	C20, C24
20	20	1013466-05	56.0 MMF 50V 5Z CER	2	C51, C52
21	21	1105796-00	1N 4004 PIV=400 I= 1A D041 SP	2	D3, D4
22	22	1113003-00	1N 5282 PIV=55 I=500M D035	8	D1, D2, D5-D10
23	23	1316575-00	10.0 2.0 W 5.0 Z CC	3	R1, R18, R19
24	24	1300197-00	33.0 .25 W 5.0 Z CC	2	R115, R116
25	25	1300202-00	47.0 .25 W 5.0 Z CC	2	R124, R125
26	26	1300229-00	100.0 .25 W 5.0 Z CC	1	R42
27	27	1300250-00	150.0 .25 W 5.0 Z CC	1	R7
28	28	1300316-00	470.0 .25 W 5.0 Z CC	14	R5, R10, R11, R12, R14, R15, R16, R20,

REVISION HISTORY		BASIC PART NO: 5413596		DRN:	H. WEINBRENNER	DATE: 18-APR-79	D I G I T A L				
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	A. SIMH	DATE: 18-APR-79	TITLE	PARTS LIST			
JH	5413596-CX002	E	SECTION VARIATION INDEX				READ/WRITE 1				
			[A] 00								
			[B]								
			[C]	DES. ENG:	J. HARRELL	DATE: 29-APR-79					
			[D]								
			[E]								
			[F]	RESP. ENG.:	M. HAMMER	DATE: 29-APR-79	DOCUMENT NUMBER				
			[G]								
			[H]				SIZE! CODE! NUMBER	REV			
			[J]								
			[K]	MFG. ENG.:	A. MORGAN	DATE: 29-APR-79	K PL 5413596-0-DBP	E			
			[L]								
			[M]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:	FILE NAME:	EDIT #			
			[N]	E-UA-5413596-0-0		B-DD-5413596-0	Z0506E.PLS	16			

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LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
29	29	1300365-00	1.0 K .25 W 5.0 X CC	11	CONT R21,R73,R76,R88,R89,R130 R3,R4,R25,R28,R47,R51,R52,R56, CONT R87,R110,R112
30	30	1300447-00	4.70 K .25 W 5.0 X CC	1	R208
31	31	1301317-00	10.0 .25 W 5.0 X CC	1	R44
32	32	1301320-00	1.20 K .25 W 5.0 X CC	1	R75
33	33	1301424-00	680.0 .25 W 5.0 X CC	2	R78,R79
34	34	1301425-00	300.0 .25 W 5.0 X CC	2	R6,R13
35	35	1301477-00	82.0 .25 W 5.0 X CC	4	R8,R9,R17,R126
36	36	1301775-00	820.0 .25 W 5.0 X CC	3	R40,R41,R45
37	37	1301969-00	22.0 .25 W 5.0 X CC	1	R128
38	38	1302136-00	5.10 1.0 W 5.0 X CC	1	R107
39	39	1302411-00	511.0 .25 W 1.0 X RN55D-F10	4	R59,R60,R93,R94
40	40	1302612-00	1.78 K .25 W 1.0 X RN55D-F10	2	R66,R103
41	41	1302644-00	226.0 .25 W 1.0 X RN55D-F10	1	R68
42	42	1302645-00	1.10 K .25 W 1.0 X RN55D-F10	2	R90,R91
43	43	1302858-00	100.0 .25 W 1.0 X RN55D-F10	3	R86,R104,R111
44	44	1302871-00	1.21 K .25 W 1.0 X RN55D-F10	1	R99
45	45	1302956-00	196.0 .25 W 1.0 X RN55D-F10	3	R24,R27,R39
46	46	1302962-00	200.0 .25 W .10X RN55C-B 5	1	R123
47	47	1303037-00	90.90 .25 W 1.0 X RN55D-F10	1	R50
48	48	1303047-00	464.0 .25 W 1.0 X RN55D-F10	1	R55
49	49	1303312-00	10.0 K .25 W 1.0 X RN55D-F10	3	R54,R67,R81,R105,R106
50	50	1303378-00	10.0 .25 W 1.0 X RN55C-F 5	1	R85
51	51	1304857-00	237.0 .25 W 1.0 X RN55D-F10	2	R95,R98
52	52	1304858-00	348.0 .25 W 1.0 X RN55D-F10	9	R32,R33,R37,R38,R53,R57,R58,R69, CONT R70
53	53	1305122-00	51.10 .25 W 1.0 X RN55D-F10	1	R71
54	54	1305123-00	215.0 .25 W 1.0 X RN55D-F10	2	R113,R114
55	55	1305125-00	383.0 .25 W 1.0 X RN55D-F10	1	R109
56	56	1305126-00	619.0 .25 W 1.0 X RN55D-F10	1	R101
57	57	1305128-00	5.62 K .25 W 1.0 X RN55D-F10	3	R49,R61,R64
58	58	1305252-00	68.10 K .25 W 1.0 X RN55D-F10	1	R65
59	59	1309143-03	50.0 .75 W20.0 X POT	1	R127
60	60	1309143-05	200.0 .75 W10.0 X POT	1	R74
61	61	1309143-08	2.0 K .75 W10.0 X POT	1	R46
62	62	1309413-00	3.83 K .25 W 1.0 X RN55D-F10	2	R77,R80
63	63	1313589-00	1.40 K .25 W 1.0 X RN55D-F10	2	R29,R34
64	64	1313596-00	20.0 K .25 W 1.0 X RN55D-F10	2	R119,R120
65	65	1313846-00	2.26 K .25 W 1.0 X RN55D-F10	1	R102
66	66	1314429-00	523.0 .25 W 1.0 X RN55D-F10	2	R30,R35
67	67	1314549-00	1.15 K .25 W 1.0 X RN55D-F10	2	R96,R97
68	68	1316254-00	R NETWORK 7-470 2.0 X 8PIN	1	R22
69	69	SEE NOTE 1 1316254-01	R NETWORK 7-4.7K 2.0 8PIN	3	R62,R63,R82
70	70	1509524-00	2N 3904 NPN 310MW SI 40 40 M	8	Q2,Q4,Q6,Q8-Q10,Q12,Q13
71	71	1509525-00	2N 3906 PNP 310MW SI 40100 Y	5	Q3,Q5,Q7,Q11,Q14
72	72	9009185-00	JUMPER, WIRE, INSULATED, BLACK B	1	W1
73	73	1602472-00	4.7 UH #1025-36	2	L2,L3

D	I	G	I	T	A	L	TITLE	SECTION A	OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							READ/WRITE 1			K	PL	5413596-0-DBP	E

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
74	74	1603358-00	12.0 UH 10X 300MA #DD12.0	2	L4,L5
75	75	1616291-01	DELAY= BONS,STAPS	1	E17
76	76	1910047-00	74145 DECODER&DRIVER	1	E10
77	77	1910644-00	733 DIFFERENTIAL AMP,WID	2	E23,E24
78	78	1910741-00	7406 INVERTER GATE-HEX 1I	2	E3,E4
79	79	1911399-00	10102 NOR GATE,QUAD 2IN	1	E20
80	80	1911414-00	10124 TTL TO ECL TRNSLTR	1	E6
81	81	1911416-00	10131 DUAL D MSTR/SL.FF	2	E13,E19
82	82	1912048-00	DEC 7812 VOLT REG,FIX +12V	1	E1
83	83	1913017-00	3046 XSISTOR ARRAY,3 ISOL.	2	E16,E22
84	84	1914140-00	LM 311N VOLT CHPRTR	4	E2,E9,E18,E12
85	85	1914517-00	7912 VOLT REG,FIX -12V	1	E8
86	86	1916244-01	317 VOLT REG,VAR 1/37V	2	E5,E7
87	87	9006557-00	NUT,KEP , 4-40X 1/4 AF	7	
88	88	9008172-00	WASHER, FLAT,SS .250 OD X .125 I	7	
89	89	9006011-01	SCREW,PAN,PHIL 4-40X 3/8 SS	4	
90	90	1012312-00	.47 MFD 50V +80-20% CER	1	C62
91	91	1305124-00	287.0 .25 W 1.0 % RN55D-F10	1	R83
92	92	1013466-22	.01 MFD 50V +80-20% Z5UCER	4	C21,C29,C31,C38
93	93	1302931-00	49.90 .25 W 1.0 % RN55D-F10	2	R117,R118
94	94	1305108-00	1.47 K .25 W 1.0 % RN55D-F10	1	R92
95	95	1513489-00	2N 4401 NPN 350MW SI 40 20	1	Q1
96	96	1300479-00	10.0 K .25 W 5.0 % CC	1	R43
97	97	1302872-00	681.0 .25 W 1.0 % RN55D-F10	1	R84
98	98	1316846-00	15.0 2.0 W10.0 % CC	1	R2
99	99	9007791-00	TERM PCB 2POS SOLDER,TURRET	2	TP1,TP2
100	100	9006010-01	SCREW,PAN,PHIL 4-40X 5/16 SS	3	

101 NOTE: NOTE 1. PART NUMBER IS FOR R. NETWORK 7-4.7K OHM RESISTOR
 102 NOTE: - WHICH IS WHAT PART SHOULD BE.
 103 NOTE: NOTE 2. CAUTION--- SEE NOTE 1 ON E-UA-5413596-0-0 FOR
 104 NOTE: - HARDWARE INSTALLATION.

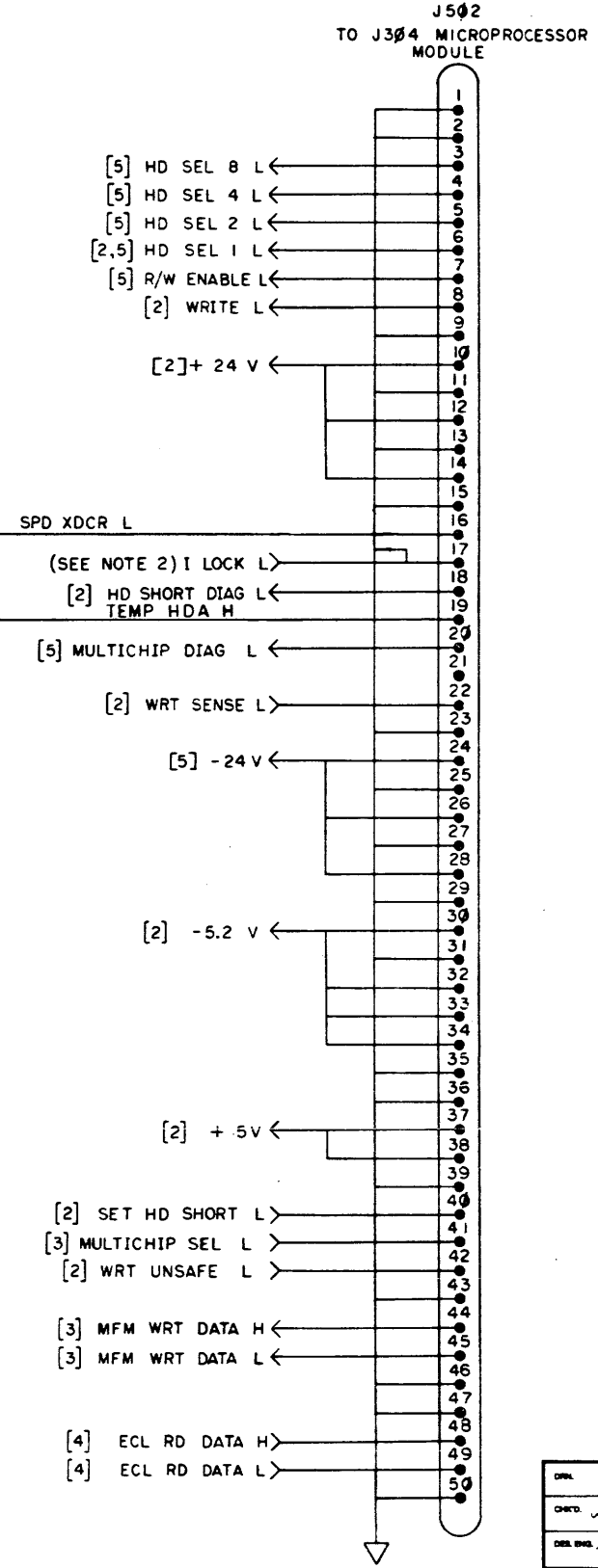
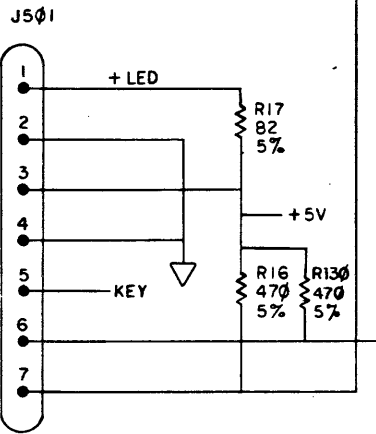
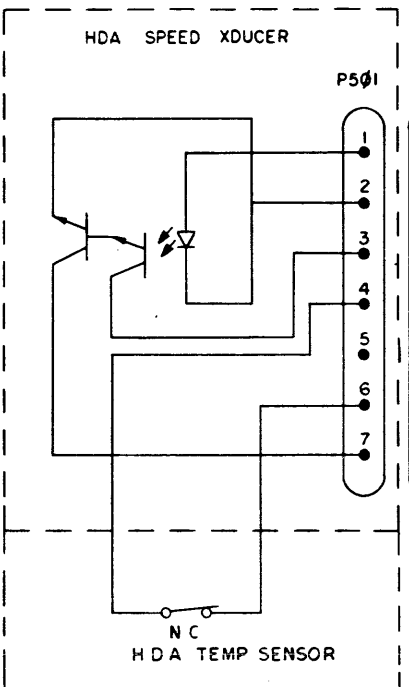
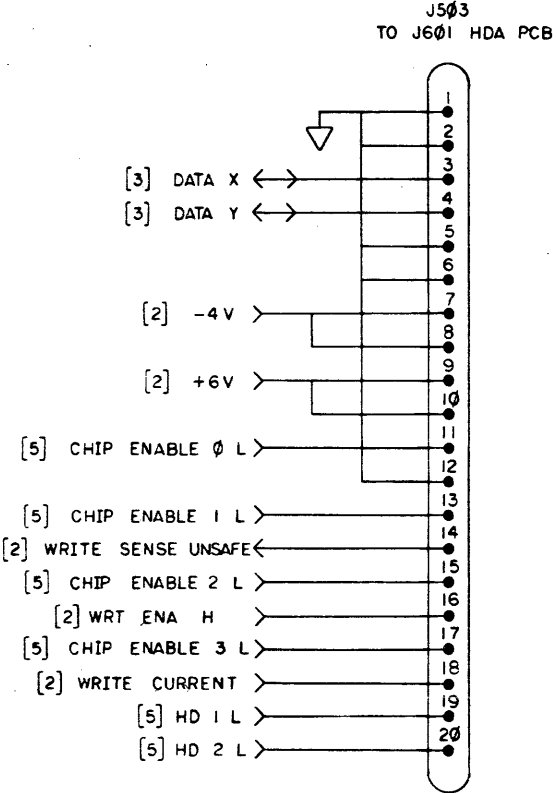
D	I	G	I	T	A	L	TITLE	READ/WRITE 1	SECTION A	OF A	SIZE	CODE	DOCUMENT NUMBER	REV
											K	PL	5413596-0-DBP	E

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- NOTES:**
- UNLESS OTHERWISE SPECIFIED:
 ALL RESISTORS ARE 1/4 W, 1%.
 ALL RESISTOR VALUES ARE IN OHMS.
 ALL CAPACITOR VALUES ARE IN MICROFARADS.
 - "I LOCK L" IS GROUND SOURCE FOR MODULE INTERLOCK SYSTEM.

D
C
B
A

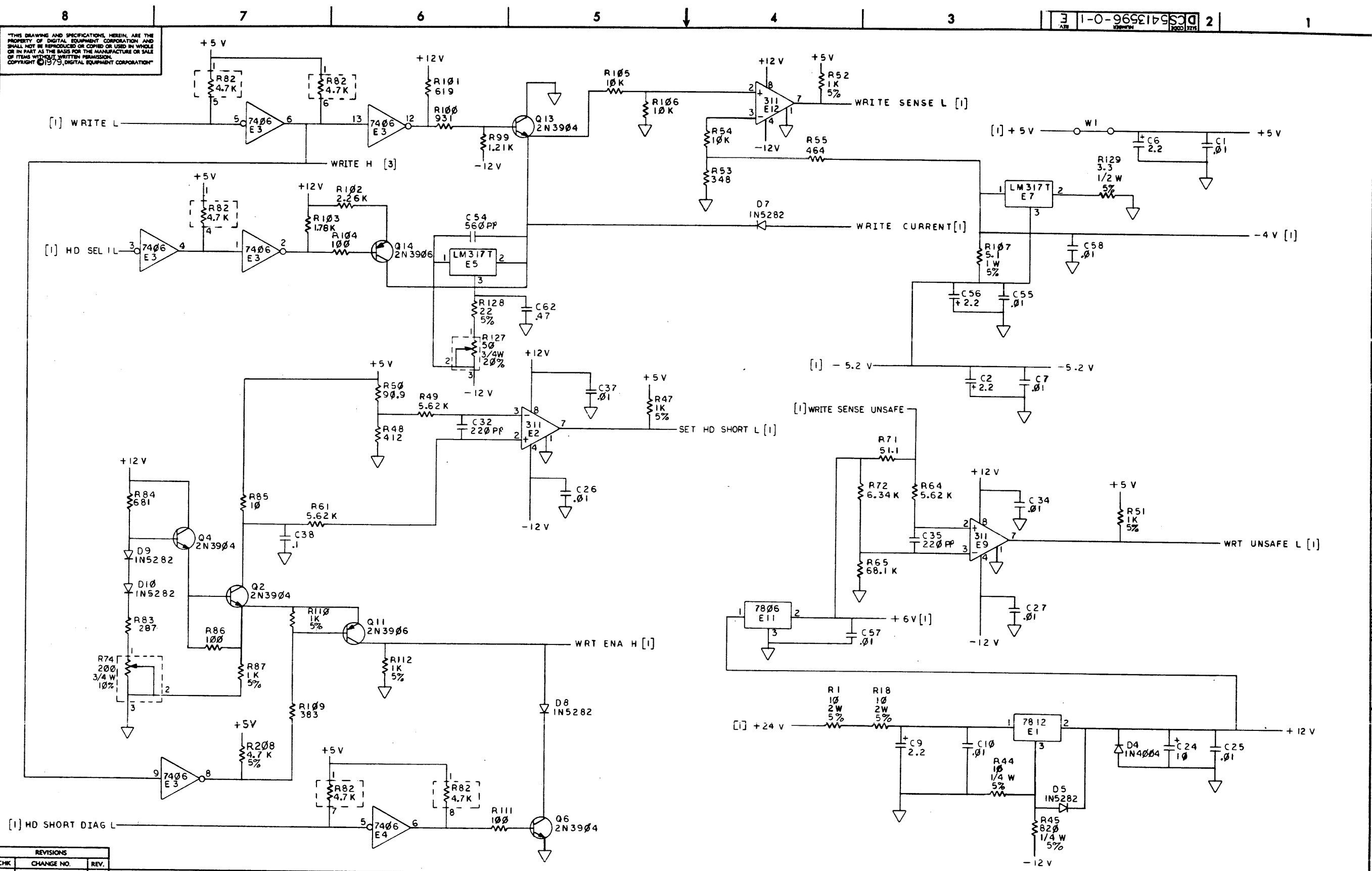
REVISION HISTORY	
REV.	ECO NUMBER
D	5413596-CX001 J. HARRELL
E	5413596-CX002 J. HARRELL
DATE	BY



DRW: <i>W. Mans</i>	DATE: 12 JUN 79	TITLE: digital
CHG'D: <i>W. Mans</i>	DATE: 19 JUL 79	READ/WRITE I
DES. ENG: <i>M. Mans</i>	DATE: 02/77	(RWI)
APP. ENG: <i>M. Mans</i>	DATE: 02/77	DOCUMENT NUMBER
MPL. ENCL: <i>M. Mans</i>	DATE: 02/77	D CS 5413596-0-1 E
NEXT HIGHER DOC: B-DD-5413596-0	SCALE: <i>1</i>	SHEET 1 OF 6

D CS 5413596-0-1 E

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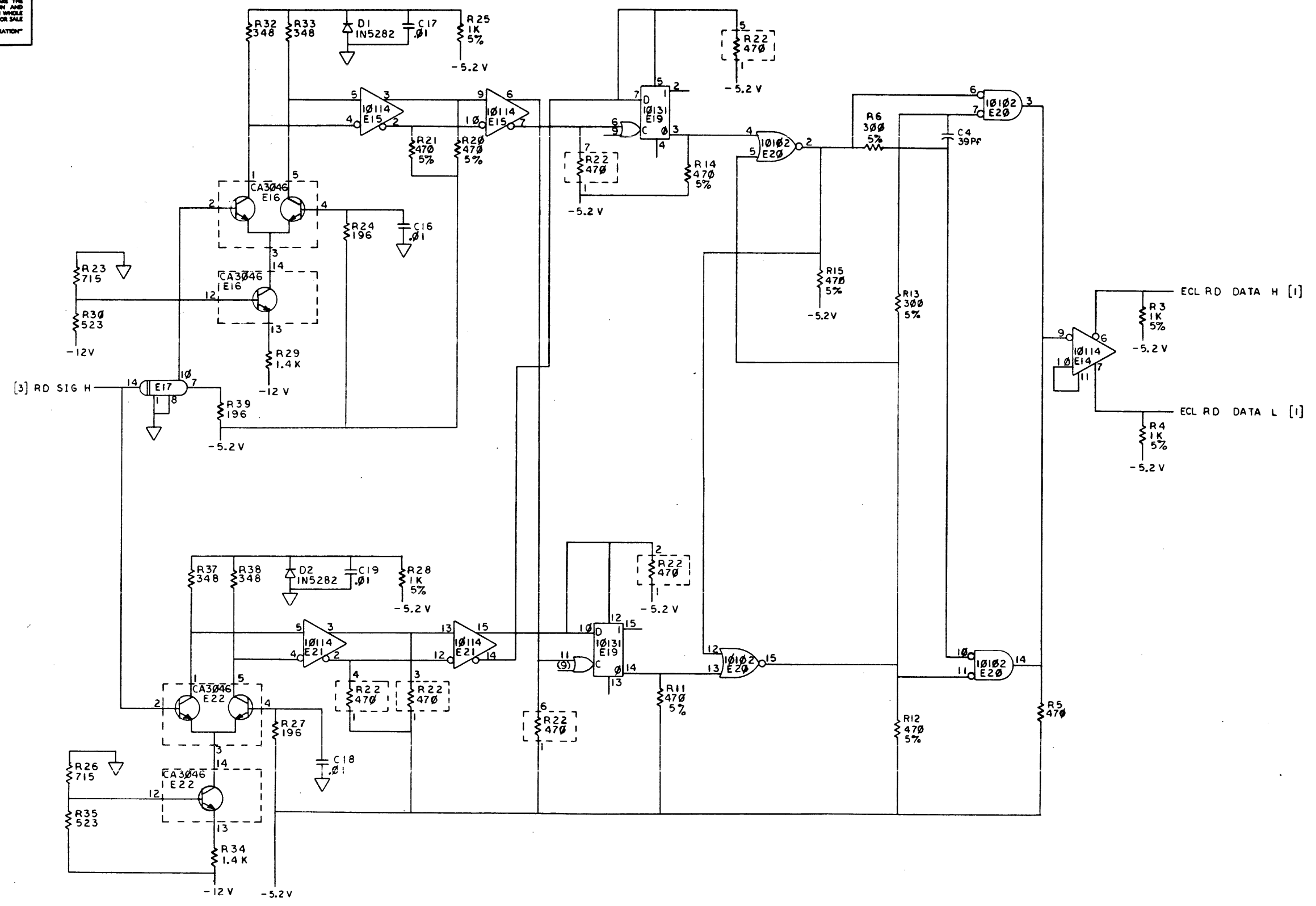


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	(RW2)	SIZE CODE	NUMBER	REV.
READ/WRITE 1		DCS	5413596-0-1	E
SCALE	1/1	SHEET	2 OF 6	DIST.

DCS 5413596-0-1 E

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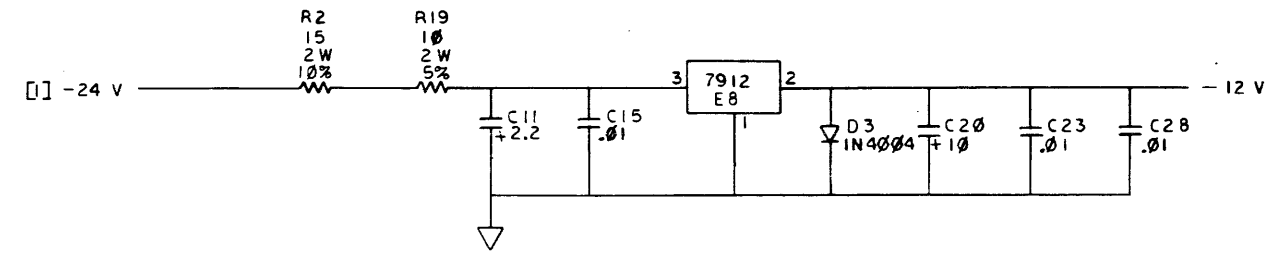
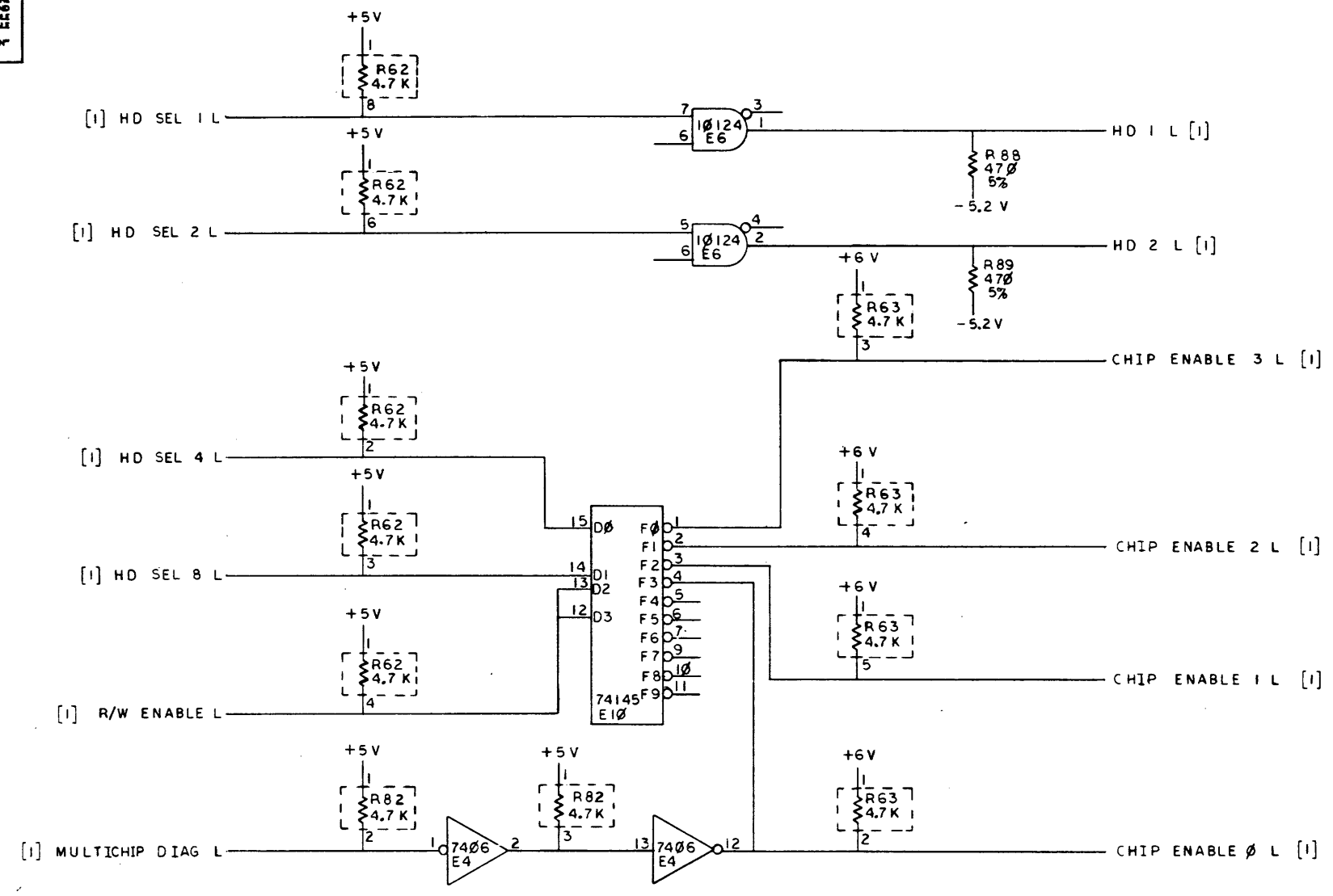
REVISIONS		
CHK	CHANGE NO.	REV.

DCS 5413596-0-1 E

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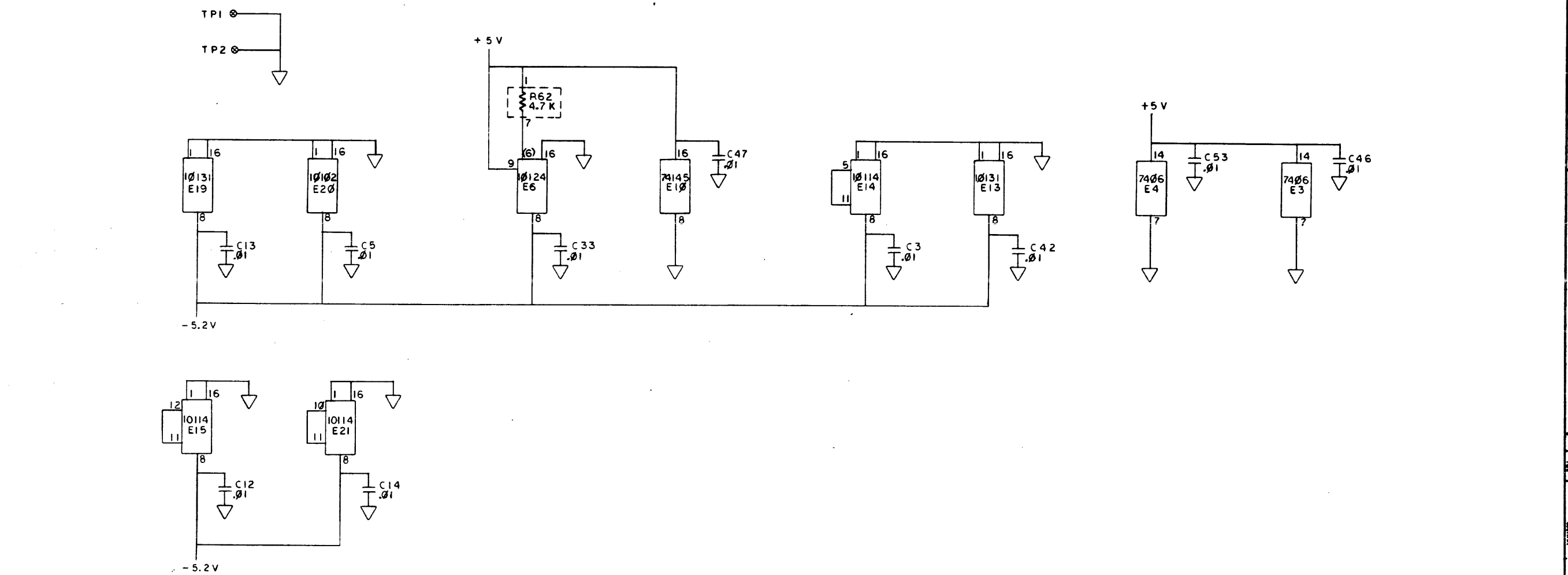
D
C
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REVISIONS		
CHK	CHANGE NO.	REV.

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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	(RW 6)	SIZE CODE	NUMBER	REV.
READ / WRITE 1		DCS	5413596-0-1	E
SCALE	1/1	SHEET	6 OF 6	DIST.

DCS 5413596-0-1 E

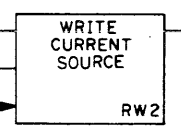
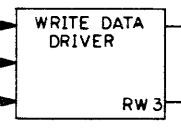
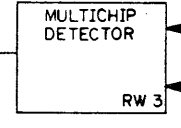
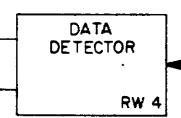
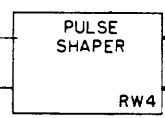
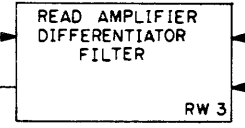
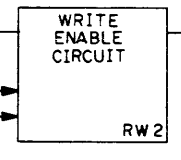
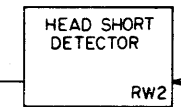
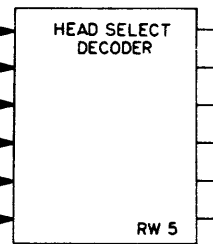
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J502 (DESTINATION IS J304 MICROPROCESSOR MODULE)

J503 (DESTINATION IS J603 HDA)

- 6 HD SEL 1 L
- 5 HD SEL 2 L
- 4 HD SEL 4 L
- 3 HD SEL 8 L
- 20 MULTICHIP DIAG L
- 7 R/W ENABLE L
- 42 WRITE UNSAFE L
- 40 SET HD SHORT L
- 18 HD SHORT DIAG L
- 48 ECL RD DATA H
- 49 ECL RD DATA L
- 41 MULTICHIP SEL L
- 44 MFM WRT DATA H
- 45 MFM WRT DATA L
- 22 WRT SENSE L
- 8 WRITE L
- 19 TEMP HDA H
- 16 SPD XDCR L

- 19 HD 1 L
- 20 HD 2 L
- 11 CHIP ENABLE 0 L
- 13 CHIP ENABLE 1 L
- 15 CHIP ENABLE 2 L
- 17 CHIP ENABLE 3 L
- 14 WRITE SENSE UNSAFE
- 16 WRT ENA H
- 3 DATA X
- 4 DATA Y
- 18 WRITE CURRENT
- 6 TEMP HDA H
- 7 SPD XDCR L
- 1 + LED
- 3 +5V



J501 (TO SPEED TRANSDUCER AND TEMP SENSOR)

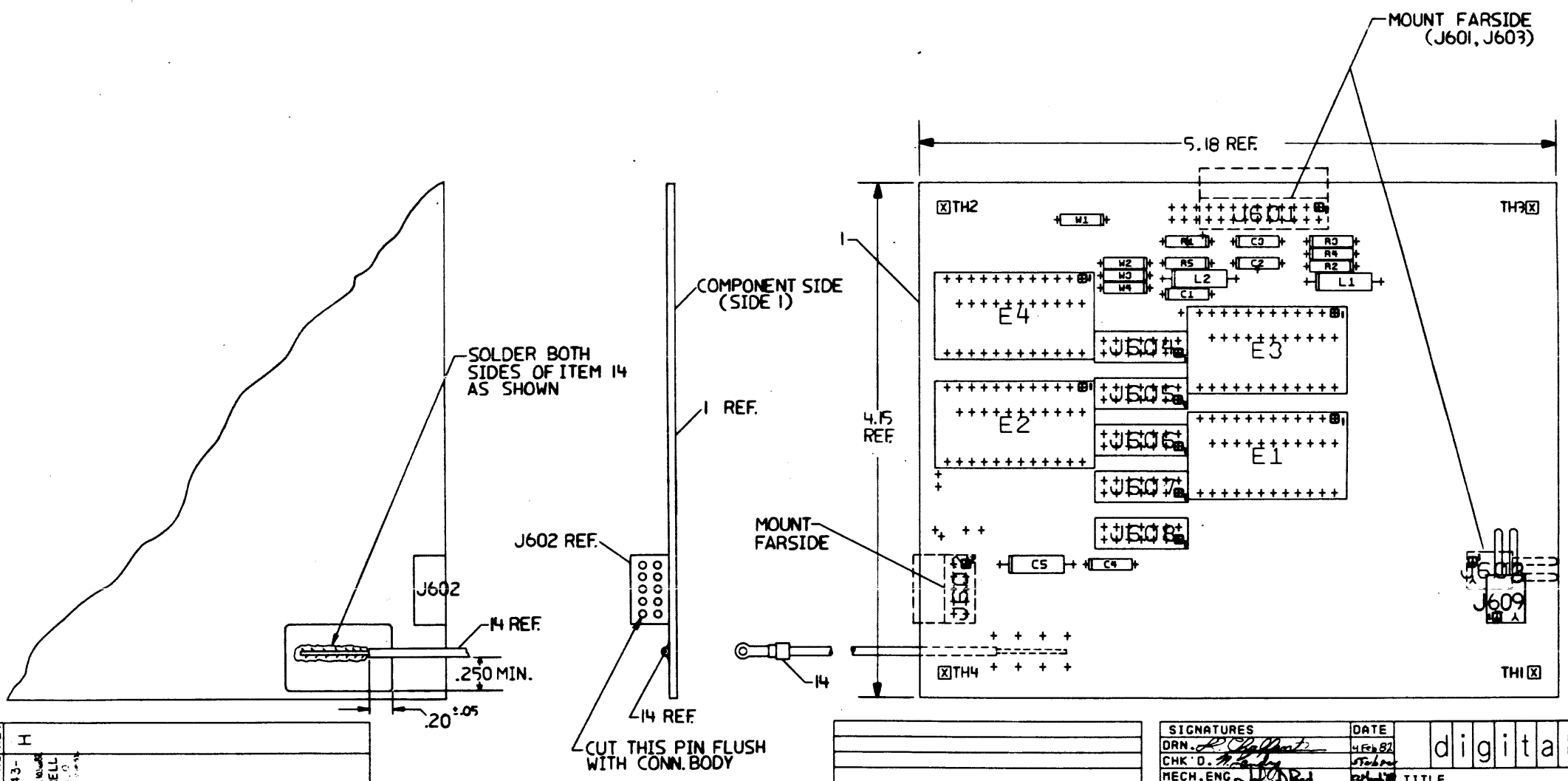
REVISION HISTORY	
DATE	ECO NUMBER
21 MAR 79	B1
RELEASED TO ECO CONTROL AT REV A	
DATE	ECO NUMBER
	A

CHKD BY: M. Bowen	DATE: 21 NOV 79	TITLE: digital
CHKD BY: W. W. W.	DATE: 29 JAN 81	READ/WRITE 1
DESIGN BY: N/A	DATE:	
APP. BY: [Signature]	DATE: 25 JAN 81	
DATE: N/A		
SCALE:	SHEET: 1	OF: 1
NEXT HIGHER DOC: B-TC-RM80-0-1		DOCUMENT NUMBER: D BD 5413596-0-2 A

DATE CODE: D BD 5413596-0-2 A

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COMPONENT SIDE VIEW



- NOTES:
1. TITLE ON MODULE IN ETCH IS 'HDA PCB2' TITLE OF MODULE IS 'HDA PCB1'. THIS WAS DONE FOR FIELD IDENTIFICATION OF DIFFERENT TYPES OF READ/WRITE IC'S.
 2. SOLDER FILL 100% ALL PLATED THRU HOLES.
 3. STEP AND REPEAT 2ML36.
 4. NO GRIPLETS TO BE USED TO REPAIR THIS MODULE.
 5. NO SECONDARY DRILL HOLES TO BE MADE IN THIS MODULE.
 6. W1 IS A JUMPER RUN IN ETCH.
 7. W2-W4 ARE NOT INSTALLED.

CHANGE NO	REV
5413643-	H
CX006	
050718	
J. HARRELL	

STEP E	+ Y AXIS	4.275	STEP	1	TIMES	2ML36
REPEAT	+ X AXIS	5.258	STEP		TIMES	

ETCH REV.	REV-EPI
-----------	---------

SIGNATURES	DATE
DRN. <i>[Signature]</i>	11 Feb 82
CHK'D. <i>[Signature]</i>	17 Feb 82
MECH. ENG. <i>[Signature]</i>	22 Feb 82
PROJ. ENG. <i>[Signature]</i>	22 Mar 82
PROD. <i>[Signature]</i>	12 Jun 82
SCALE 2/1	
SHT. 1 OF 1	
NEXT HIGHER ASSY. 0-00-5413643-0	

digital	
TITLE	
H.D.A. PCB.1	
SIZE CODE	NUMBER
0 UA	5413643-0-0 H
REV	

DUA 5413643-0-0 H

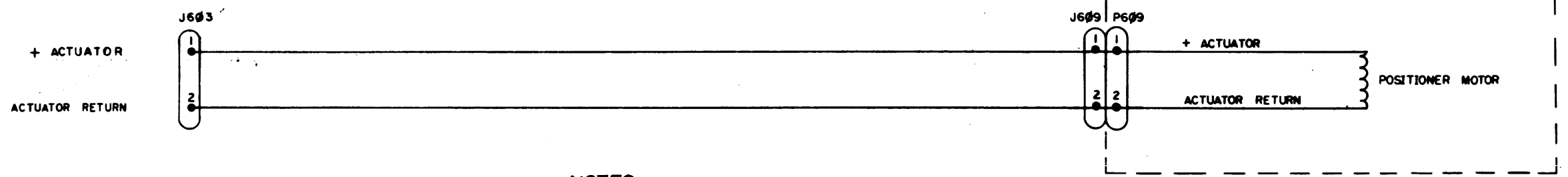
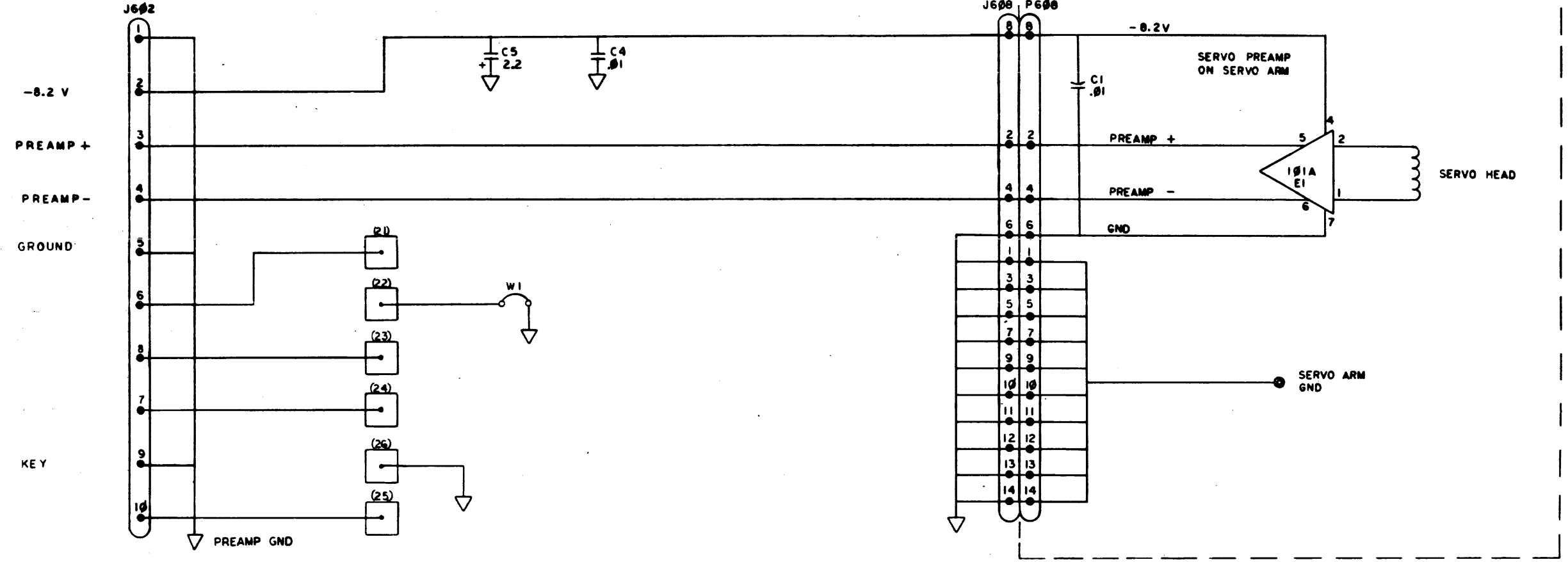
LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
1	D-MD-5013642-0-0	5013642-00	DRILL & ETCH BD	1	
2		1001610-00	.01 MFD 50V +80-20% Z5U CER	3	C2,C3,C4
3		1013466-31	15.0 MMF 50V 5% CER	1	C1
4		1002431-00	2.2MFD 35V 10% S.TANT	1	C5
5		1303114-00	1.0 K .25 W 1.0 % RN55D-F10	1	R1
6		1319169-01	200.0 .25 W 1.0 % RN55D-F10	1	R2
7		1316836-00	402.0 .25 W 1.0 % RN55D-F10	2	R3,R4
8		1212965-04	PCB,HEADER 20PIN(2X05).100CC 90D	1	J601
9		1216862-00	PCB,HEADER 14POS(2X07).100CC STR	5	J604,J605,J606,J607,J608
10		1212965-01	PCB,HEADER 10PIN(2X05).100CC 90D	1	J602
11		1212204-12	PCB HEADER 02PIN(1X02).156CC 90D	2	J603,J609
12		1916241-01	READ/WRITE AMP	4	E1,E2,E3,E4
13		1609620-00	2.2 UH #RFCS2.2	2	L1,L2
14	B-IA-7017607-0-0	7017607-01	GROUND CABLE ASSEMBLY (HDA REWOR	1	
15		1302858-00	100.0 .25 W 1.0 % RN55D-F10	1	R5

REVISION HISTORY			BASIC PART NO: 5413643			DRN: SUE BOURBEAU DATE: 23-JUN-82			D I G I T A L			
ENG	ECO NUMBER	REV	SECTION A OF A			CHK'D:	RON MICHAUD	DATE: 23-JUN-82	TITLE	PARTS LIST		
	PCO R80-457	B	SECTION.VARIATION INDEX			CHK'D:	RON MICHAUD	DATE: 23-JUN-82	HDA PCB#1			
JH	5413643-CX02A	D	[A] 00									
JH	5413643-CX004	E	[B]									
JH	5413643-CX006	F	[C]			DES.ENG:	J HARRELL	DATE: 23-JUN-82				
			[D]									
			[E]									
			[F]			RESP.ENG.:	J HARRELL	DATE: 23-JUN-82	DOCUMENT NUMBER			
			[G]						SIZE	CODE	NUMBER	REV
			[H]									
			[I]			MFG.ENG.:	A KASSAK	DATE: 23-JUN-82	K	PL	5413643-0-DBP	F
			[J]									
			[K]			ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:	FILE NAME:	EDIT #		
			[L]			D-UA-5413643-0-0		# B-DD-5413643-0	Z0507F.PLS	28		
			[M]									
			[N]									

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TO J461 ON SERVO MODULE

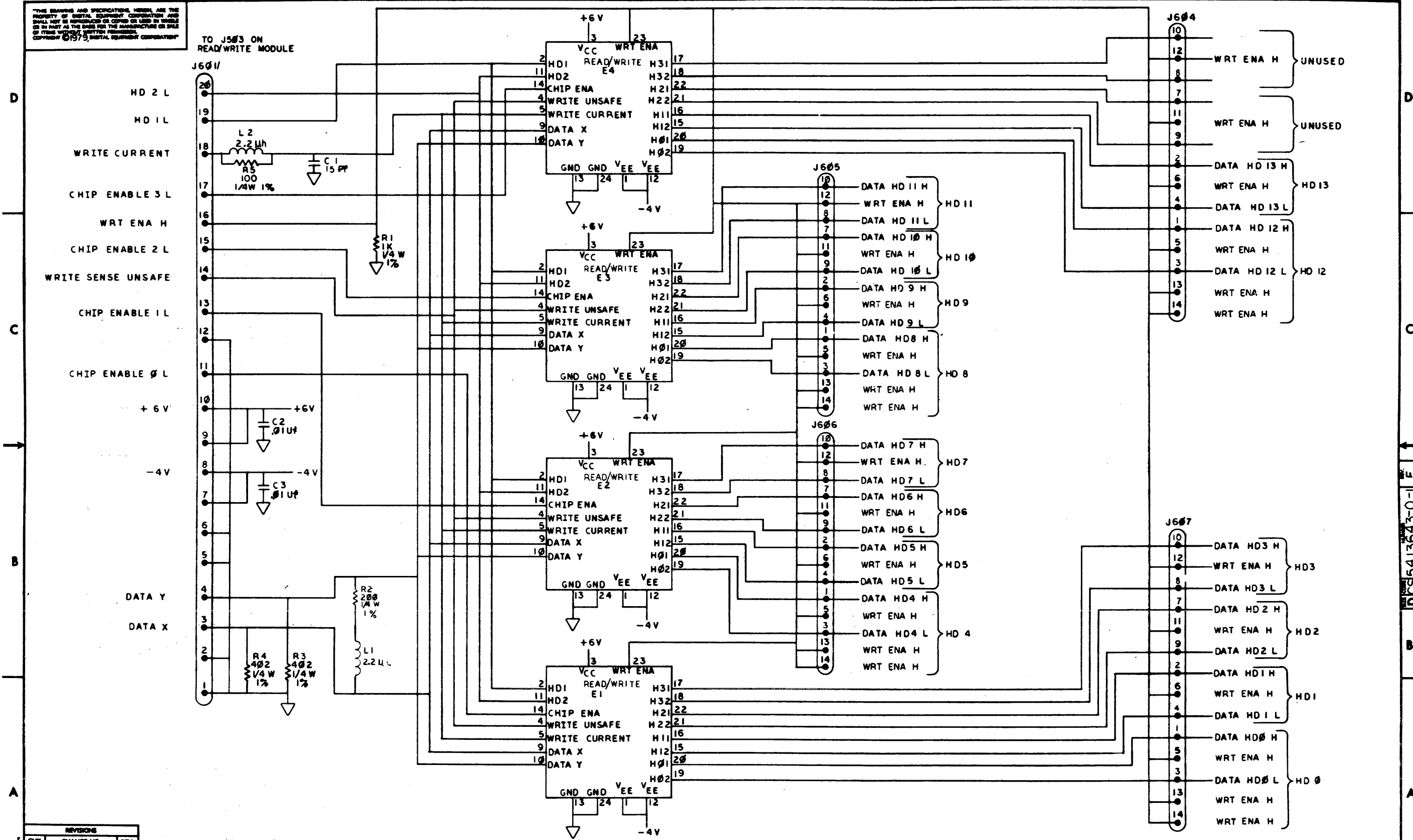


NOTES:
 1 UNLESS OTHERWISE SPECIFIED:
 ALL RESISTORS ARE 1/4W 5%.
 ALL RESISTOR VALUES ARE IN OHMS.
 ALL CAPACITOR VALUES ARE IN MICROFARADS.

REV	DATE	BY	CHKD
1	5/10/81	J. WARELL	J. WARELL
2	5/10/82	J. WARELL	J. WARELL

QUANTITY & VARIATION		DESCRIPTION		DRAWN/PART NO.		ITEM NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES							
ANGLE OF 2°	CLASS OF ACCURACY	FORM	FIN	FIN	FIN	FIN	FIN
SURFACE QUALITY	CHECK OVER	1.000	1.000	1.000	1.000	1.000	1.000
MICROMETERS	PREFERRED	1.000	1.000	1.000	1.000	1.000	1.000
THIRD ANGLE PROJECTION	CHK'D	DATE	BY	FIRST USED ON			
REMOVE BURRS AND BREAK SHARP CORNERS	PROL. ENL. 1/4	2/8/79	J. WARELL	TITLE			
DO NOT SCALE DIMS	PROD. BY	DATE	BY	H.D.A. PCB 1			
MATERIAL	B-DD-5413643-0	SIZE	CODE	NUMBER	REV.		
FINISH	SCALE	D	CS5413643-0-1	F			
	SHEET	OF	2				

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REVISIONS		
CHK	CHANGE NO.	REV.

DCS 5413643-0-1 F

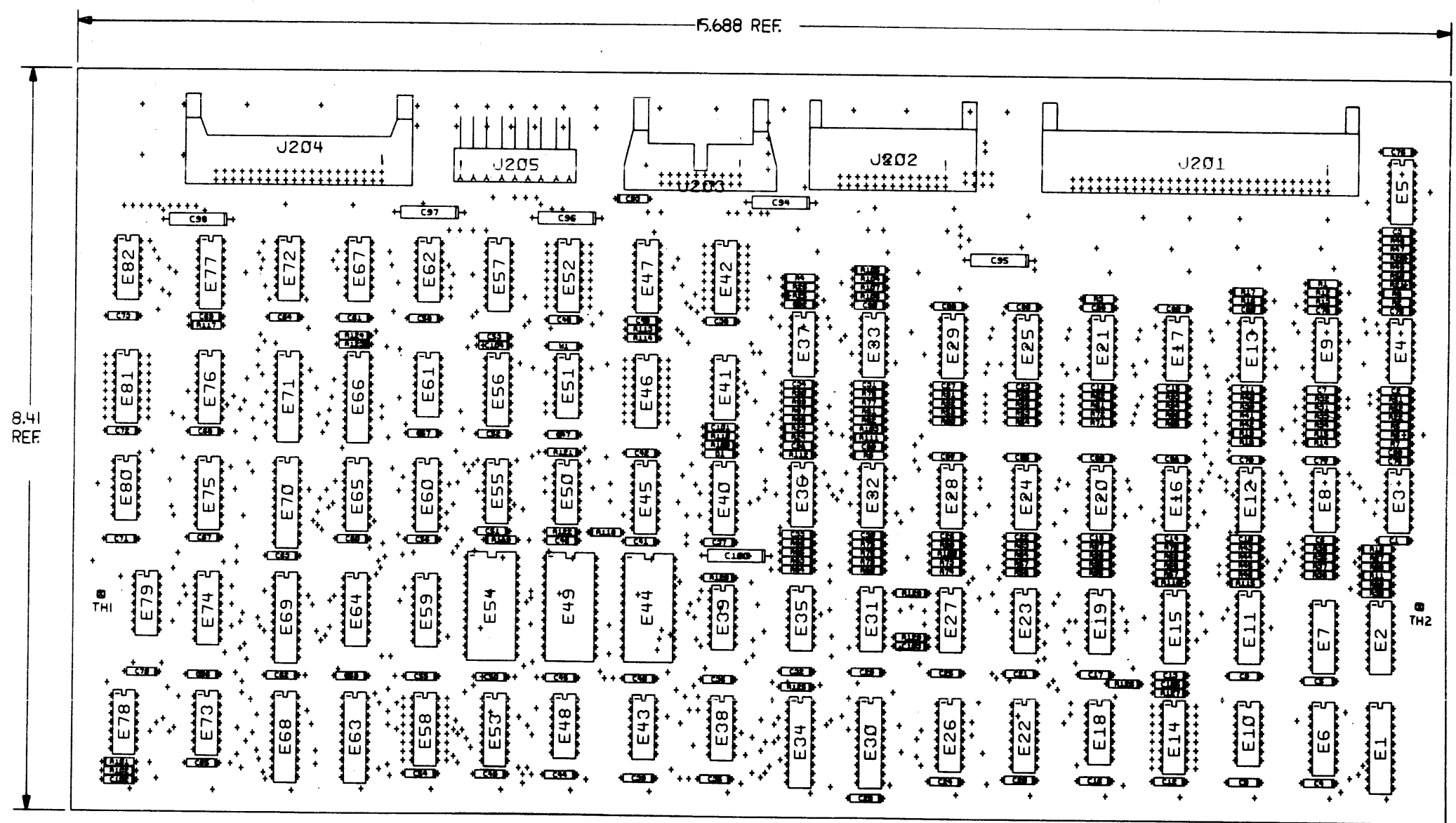
LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION
1	D-UA-5414010-0-0	5414010-00	SMD PERSONALITY CARD	1
2		7422798-00	STIFFENER, BOARD	1
3		9008212-00	SCREW, NYLON, SLTD PAN HD, 6-32	2
4		9006967-00	SPACER, FIBER, RND, 6-32, .250 X	2
5		9006707-00	WASHER, NYLON, FLAT #6 .312 OD	4

REVISION HISTORY			BASIC PART NO: 7016975			D I G I T A L		
ENG	ECD NUMBER	REV	SECTION A OF A	DRN:	M. ENGLE	DATE:	12-MAR-79	
GN	7016975-CX001	A	SECTION. VARIATION INDEX	CHK'D:	W. MAJOR	DATE:	4-SEP-79	TITLE
GN	7016975-CX002	B	[A] 00					PARTS LIST
GN	R80-CX004	C						PERSONALITY BD AND STIFF ASSY
GF	7016975-CX03A	D	[B]	DES.ENG.:	G. NORDBERG	DATE:	4-SEP-79	
JN	7016975-CX004	E	[C]					DOCUMENT NUMBER
			[D]	RESP.ENG.:	B. MONTERO	DATE:	4-SEP-79	
			[E]					SIZE CODE NUMBER REV
			[F]	MFG.ENG.:	N. HEDENSTEN	DATE:	4-SEP-79	K PL 7016975-0-DBP E
				ASSEMBLY NUMBER:	D-AD-7016975-0-0	TOP DOCUMENT NUMBER:	# B-DD-R80-0	FILE NAME: Z0919E.PLS EDIT # 12

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COMPONENT SIDE VIEW



NOTES: 1. LOCATIONS E1, E2, E6, E7, E4, E42, E52, E58, AND E81 ARE SPARES.
2. DO NOT INSERT R102, R127, R129 AND E46.

STEP E + Y AXIS 0 STEP 0 TIMES
REPORT + X AXIS 0 STEP 0 TIMES

CHANGE NO	REV	DATE	BY	CHK
1	K			

DRN.	
CHK'D.	
MECH. ENG.	
PROJ. ENG.	
PROD.	
ETCH REV.	EP-2

SIGNATURES	DATE	TITLE
DRN. <i>R. D. D.</i>	4/15/82	digital
CHK'D. <i>[Signature]</i>		
MECH. ENG. <i>[Signature]</i>		
PROJ. ENG. <i>[Signature]</i>		
PROD. <i>[Signature]</i>		
SCALE 1.5/1	SIZE CODE	NUMBER
SHT. 1 OF 1	0 UA	541400-0-0
NEXT HIGHER REV. 8-00-541400-0	REV	K

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
				00	
1	D-MD-5014009-0-0	5014009-00	SMD PERSONALITY CARD	1	
2		1216832-00	PCB,HEADER 20POS(2X10).100CC 90D	1	J203
3		1216832-01	PCB,HEADER 26POS(2X13).100CC 90D	1	J202
4		1216832-02	PCB,HEADER 40POS(2X20).100CC 90D	1	J204
5		1216832-04	PCB,HEADER 60POS(2X30).100CC 90D	1	J201
6		1013466-19	470.0 MMF 50V 5% CER	1	C101
7		1001610-00	.01 MFD 50V +80-20% Z5U CER	96	C1-C93,C102,C103,C105
8		1005306-00	6.8MFD 35V 10% S.TANT	1	C100
9		1010274-01	.22 MFD 50V +80-20% Z5U CER	1	C99
10		1100113-00	D 662 OS 600PCB(STABISTOR)	1	D1
11		1212204-03	PCB HEADER 09PIN(1X09).156CC 90D	1	J205
12		1300271-00	220.0 .25 W 5.0 % CC	3	R103,R105,R107
13		1300295-00	330.0 .25 W 5.0 % CC	3	R104,R106,R111
14		1300309-00	390.0 .25 W 5.0 % CC	1	R8
15		1300316-00	470.0 .25 W 5.0 % CC	3	R9,R113,R114
16		1300365-00	1.0 K .25 W 5.0 % CC	19	R1-R4,R112,R115-R125,R101,R126, R128
17		1300417-00	2.20 K .25 W 5.0 % CC	1	CONT R7
18		1300447-00	4.70 K .25 W 5.0 % CC	1	R6
19		1013466-17	150.0 MMF 50V 5% CER	1	C104
20		1301422-00	7.50 K .25 W 5.0 % CC	17	R10-R26
21		1017472-00	10 MFD 35V +50-10% AL EL	5	C94-C98
22		1302394-00	30.0 K .25 W 5.0 % CC	2	R109,R110
23		1302602-00	56.0 .25 W 5.0 % CC	74	R27-R100
24		1303176-00	1.60 K .25 W 5.0 % CC	1	R5
25		1911911-00	DEC 74S124 OSCILLATOR,DUAL VOLT	1	E56
26		1910268-00	DEC 75107B RECEIVER,LINE,DUAL,	7	E3,E5,E8,E9,E12,E13,E37
27		1910436-01	74123N ONE SHOT-DUAL,MULTIV	1	E40
28		1910534-00	74S04 INVERTER GATE-HEX 1I	1	E35
29		1910544-01	74S74-60GG-D DUAL,EDGE TRIG	1	E50

REVISION HISTORY			BASIC PART NO: 5414010										
ENG	ECD NUMBER	REV	SECTION A OF A	DRN:	P.KENDRICK	DATE: 19-MAR-79	D	I	G	I	T	A	L
SW	5414010-CX002	D	SECTION.VARIATION INDEX	CHK'D:	B.MAJOR	DATE: 18-JUL-79	TITLE PARTS LIST						
SW	5414010-CX02A	D	[A] 00				PERSONALITY CARD						
SW	5414010-CX003	E	[B]										
JH	5414010-CX04A	F	[C]	DES.ENG:	S.WITHROW	DATE: 18-JUL-79							
JH	5414010-CX006	H	[D]										
JH	5414010-CX008	J	[E]				DOCUMENT NUMBER						
			[F]	RESP.ENG.:	SKIP WITHROW	DATE: 18-JUL-79	SIZE	CODE	NUMBER	REV			
			[G]				K	PL	5414010-0-DBP	J			
			[H]	MFG.ENG.:	D.WEAVER	DATE: 18-JUL-79							
			[I]										
			[J]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:	FILE NAME:		EDIT #				
			[K]	D-UA-5414010-0-0		B-DD-5414010-0	Z0508J.PLS		33				

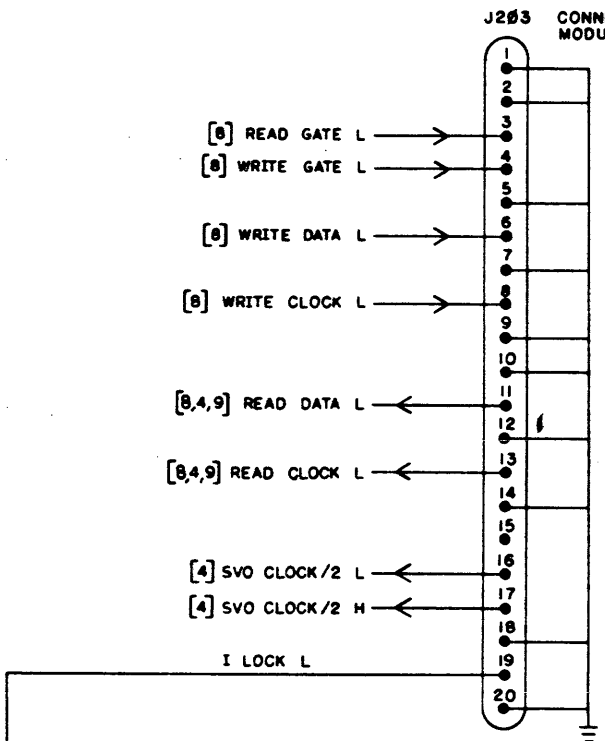
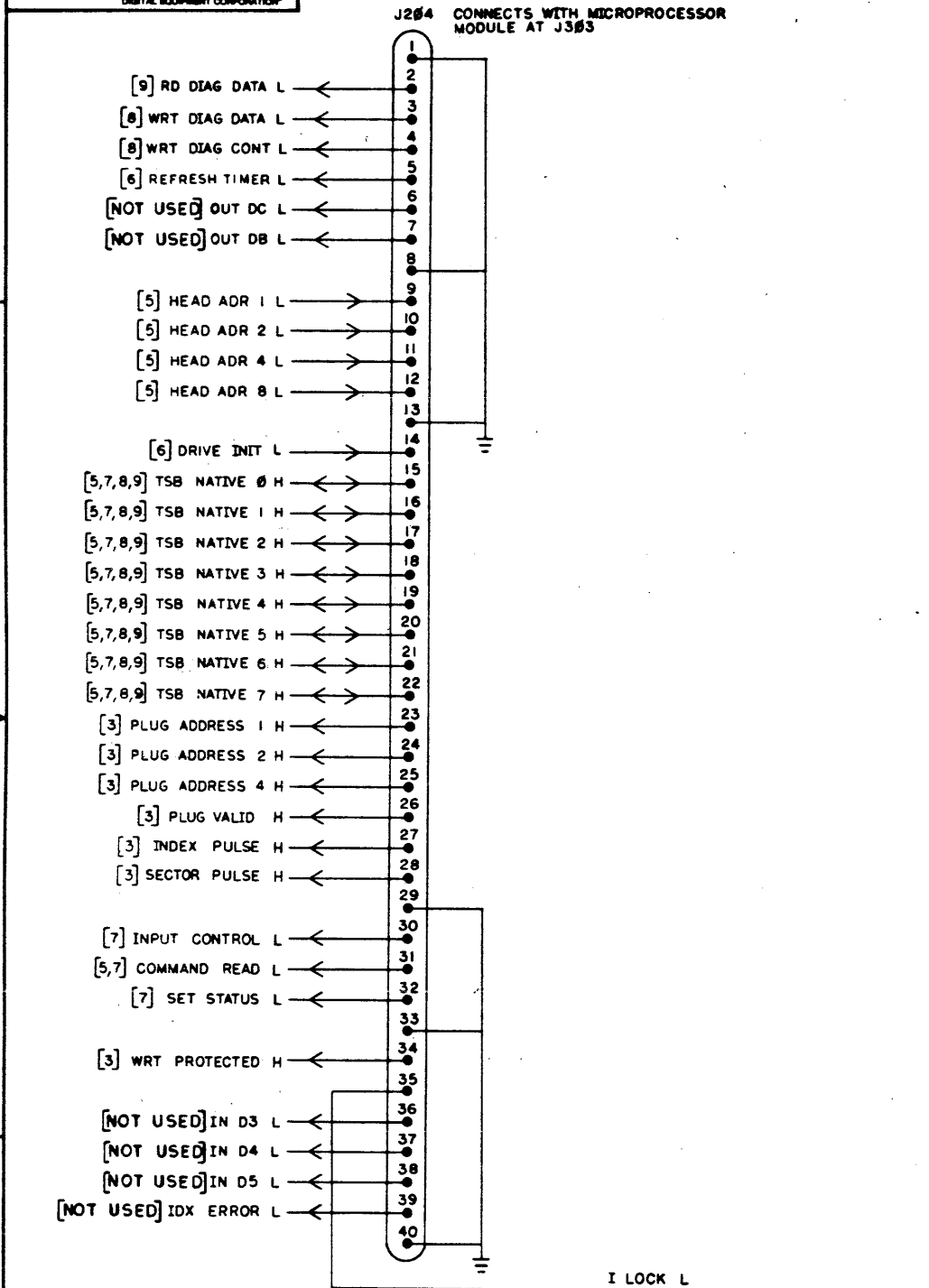
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LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
30	30	1910725-00	75108B RECEIVER,LINE,DUAL,	2	E4,E36
31	31	1912664-00	75S110 DRIVER,LINE,DUAL,LIN	10	E16,E17,E20,E21,E24,E25,E28,E29,
32	32	1912799-00	LS00 NAND-GATE-QUAD 2IN,P	2	CONT E32,E33
33	33	1912805-00	LS08 AND GATE-QUAD 2IN,PO	4	E38,E48
34	34	1912811-00	LS21 AND GATE-DUAL 4IN,PO	1	E18,E19,E62,E43
35	35	1912816-00	LS32 OR GATE-QUAD 2IN,POS	1	E31
36	36	1912820-00	LS51 A-O-I GATE 2-WIDE 2I	2	E10
37	37	1912824-00	LS74 FF-D DUAL,EDGE TRIGG	6	E79,E82
38	38	1912828-00	LS85 COMPARATOR,4BIT MAGN	2	E23,E27,E39,E78,E61,E73
39	39	1912829-00	LS86 X-OR GATE-QUAD 2IN	1	E74,E75
40	40	1912843-00	LS139 DECODER, 2 OF 4(DUAL	1	E55
41	41	1912844-00	LS151 MUX 1 OF 8 & DATA	2	E22
42	42	1912847-00	LS157 MUX 1 OF 2(QUAD)	1	E45,E76
43	43	1912849-00	LS161 COUNTER,SYNCHR,4BIT	5	E57
44	44	1912850-00	LS164 SHIFT REG. 8BIT SERI	1	E11,E15,E59,E64,E77
45	45	1912853-00	LS175 FF-D QUAD	3	E80
46	46	1912863-00	LS273 FF-D OCTAL W/CLEAR	1	E26,E60,E65
47	47	1913777-00	LS240 DRIVER,LINE,OCTAL,T	1	E70
48	48	1914214-00	LS374 FF-D OCTAL EDGE TRIG	4	E66
49	49	1915193-00	LS244 DRIVER,LINE,OCTAL,T	2	E30,E34,E63,E69
50	50	23270A1-00	A1-07	1	E68,E71
51	51	23024B8-00	B8-01	1	E53
52	52	9009185-00	JUMPER, WIRE, INSULATED, BLACK B	1	E54
53	53	1911415-00	10125 ECL TO TTL TRNSLTR	1	W1
54	54	23025B8-00	B8-01	1	E47
55	55	23026B8-00	B8-01	1	E49
56	56	1911324-00	7414 INVERTER,HEX 1IN SCH	3	E44
					E51,E67,E72

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							PERSONALITY CARD		K	PL	5414010-0-DBP	J

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K I-0-010H14S DCS



NOTES:

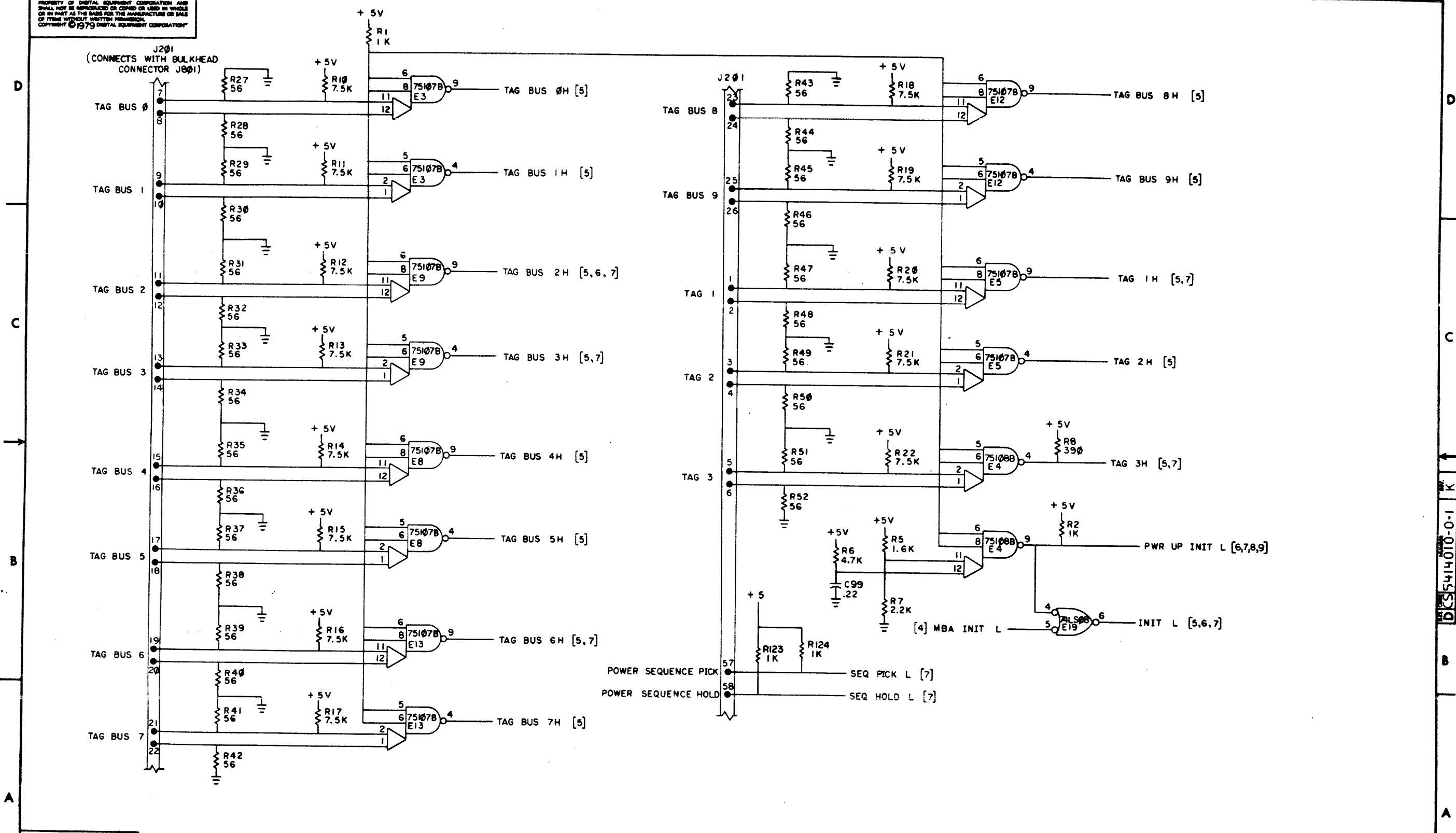
- ALL RESISTORS ARE 1/4W, 5%.
- ALL RESISTOR VALUES ARE IN OHMS.
- ALL CAPACITOR VALUES ARE IN MICROFARADS.
- 5.2 V WILL BE FOUND ON THE FOLLOWING IC PINS:
 E3-13, E4-13, E5-13, E8-13, E9-13, E12-13, E13-13, E16-11, E17-11, E20-11, E21-11, E24-11, E25-11, E26-11, E29-11, E32-11, E33-11, E36-13, E37-13, E47-8.

REV.	D	E	F	I	J	K
DATE	3/28/79	5/14/79	5/14/79	5/14/79	5/14/79	5/14/79
BY	SP	SP	SP	SP	SP	SP
DESCRIPTION	SWITCH	SWITCH	SWITCH	SWITCH	SWITCH	SWITCH
ECO NUMBER	5414010-CX003	5414010-CX003	5414010-CX004	5414010-CX005	5414010-CX006	5414010-CX008
DATE	3/28/79	5/14/79	5/14/79	5/14/79	5/14/79	5/14/79
BY	SP	SP	SP	SP	SP	SP
DESCRIPTION	SWITCH	SWITCH	SWITCH	SWITCH	SWITCH	SWITCH
ECO NUMBER	5414010-CX003	5414010-CX003	5414010-CX004	5414010-CX005	5414010-CX006	5414010-CX008

DESIGNER: R. N. ...	DATE: 14-3-79	TITLE: digital
CHECKED: ...	DATE: 8-29-79	RM80 (RMP1)
DESIGN: ...	DATE: 8-29-79	PERSONALITY CARD
REVISION: ...	DATE: 8-29-79	DOCUMENT NUMBER
DATE: 8-29-79	SCALE: 1	SHEET 1 OF 9
B-DD-5414010-0		

DCS 5414010-0-1 K

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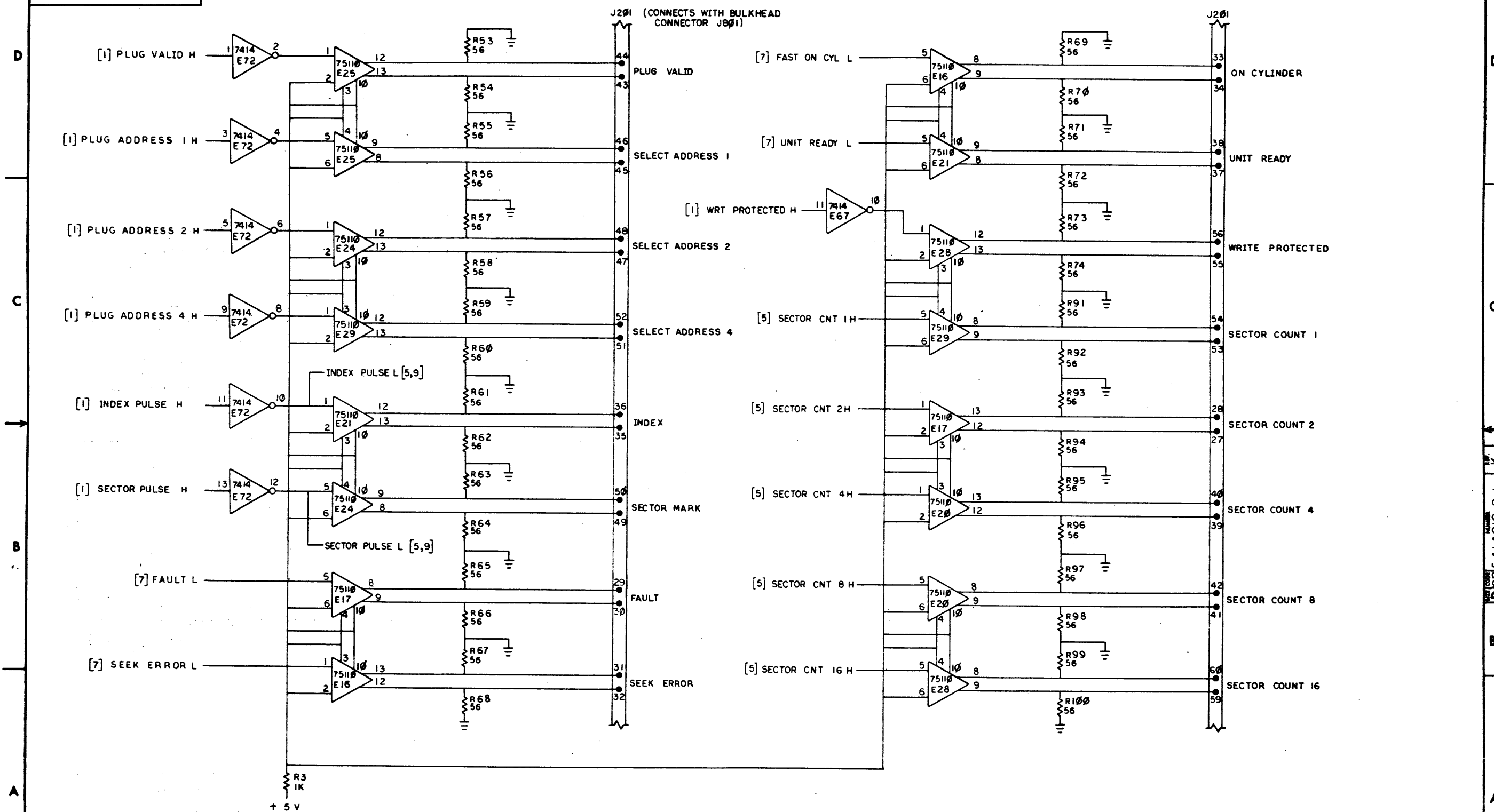
REVISIONS		
CHK	CHANGE NO.	REV.

DCS 5414010-0-1 K

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CABLE A TRANSMITTERS

DCS 5414010-0-1 2



REVISIONS		
CHK	CHANGE NO.	REV.

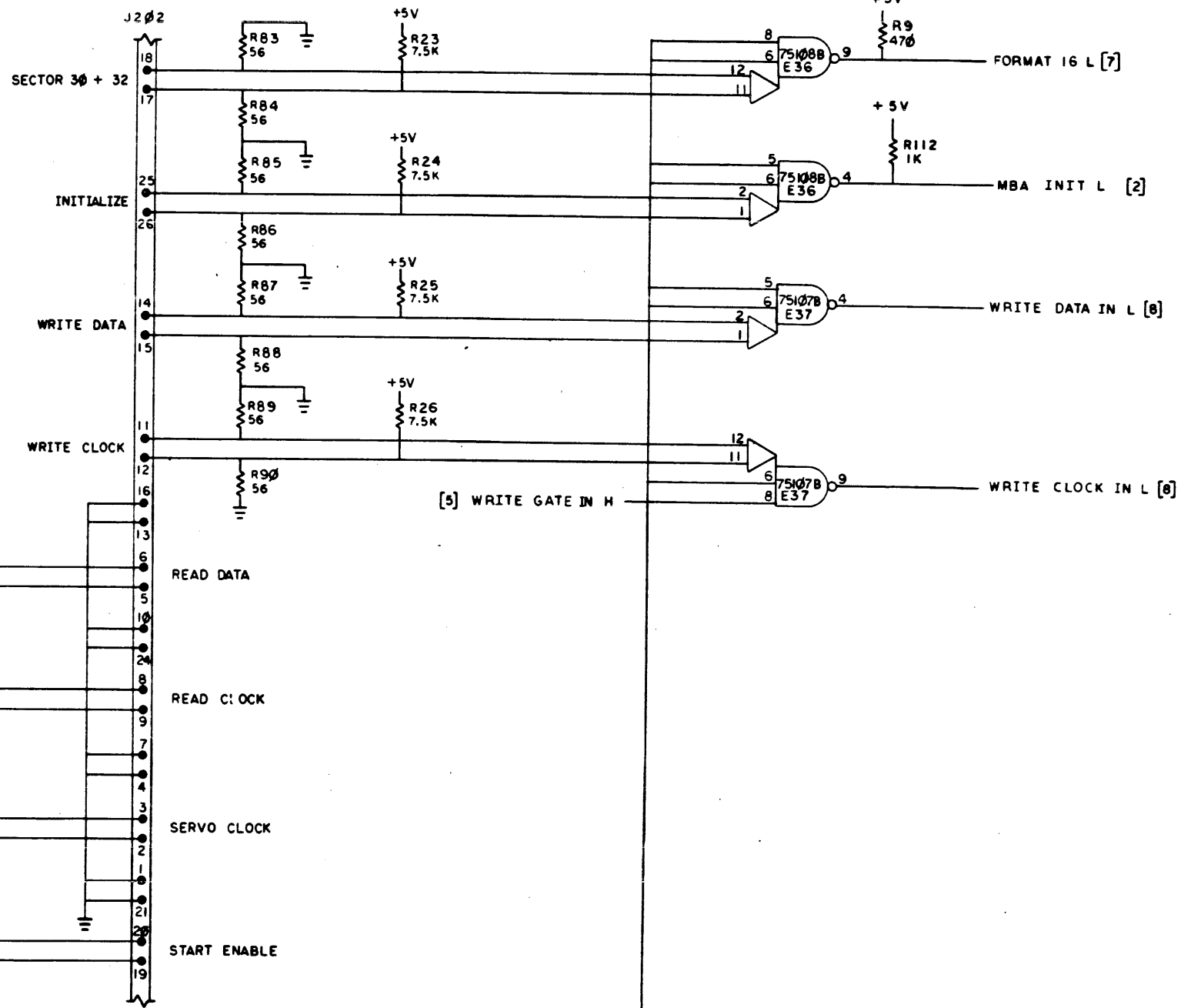
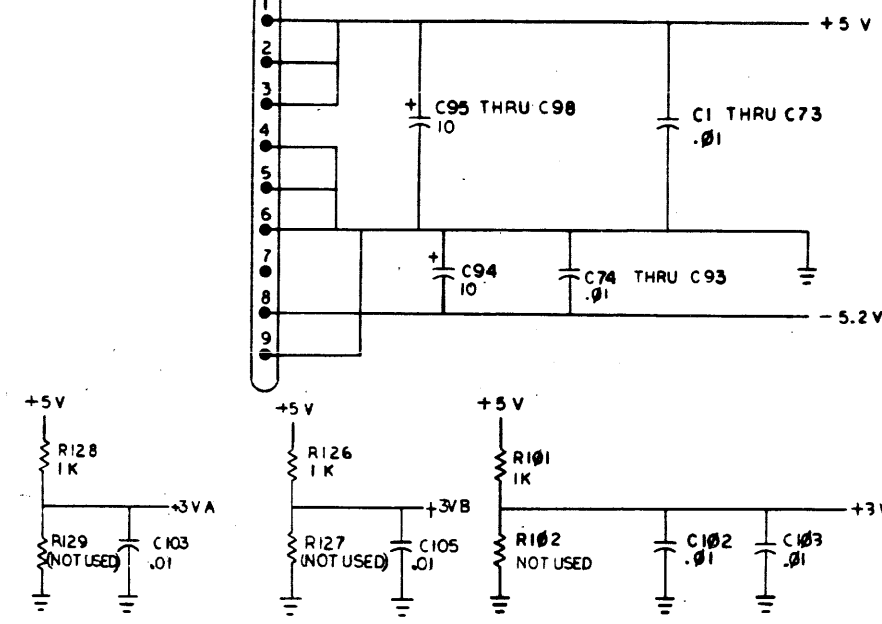
TITLE		SIZE CODE	NUMBER	REV.
RM80 PERSONALITY CARD		DCS	5414010-0-1	K
SCALE	SHEET	DIST.		
	3 OF 9			

DCS 5414010-0-1 K

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CABLE B TRANSMITTERS AND RECEIVERS

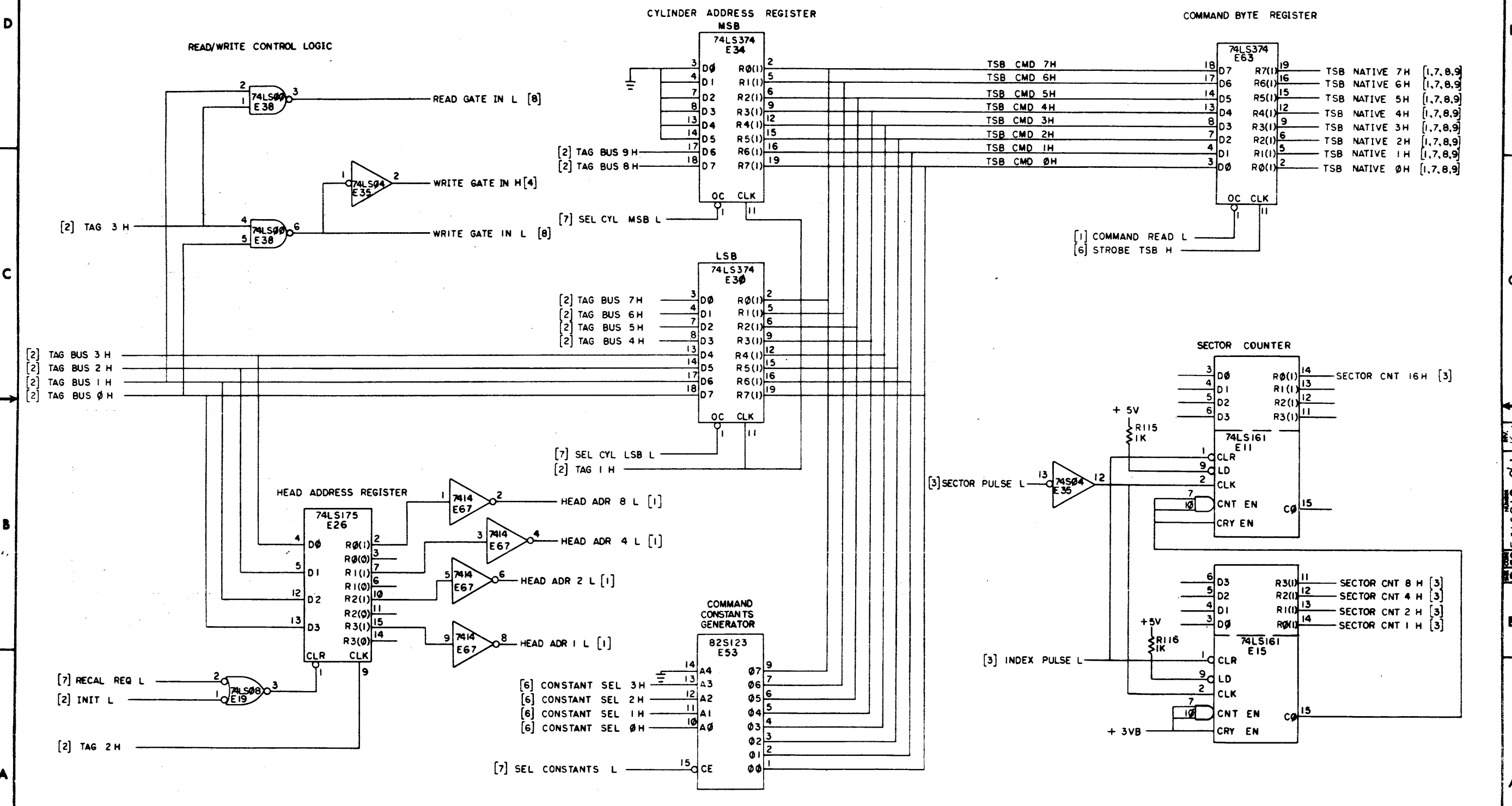
J205 (CONNECTS WITH POWER SUPPLY J701)



REVISIONS		
CHK	CHANGE NO.	REV.

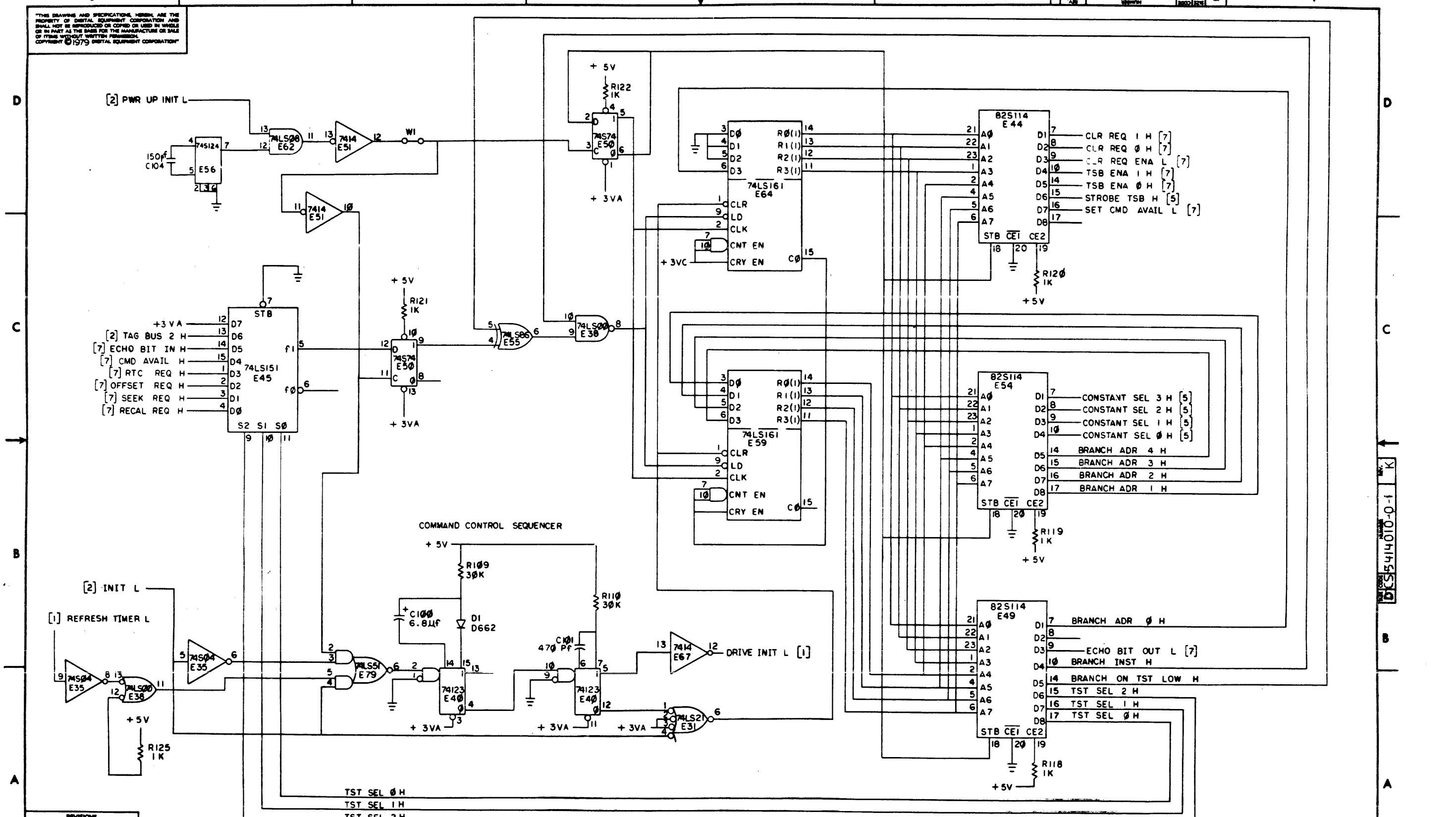
REV. K DCS 5414010-0-1

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REVISIONS		
CHK	CHANGE NO.	REV.

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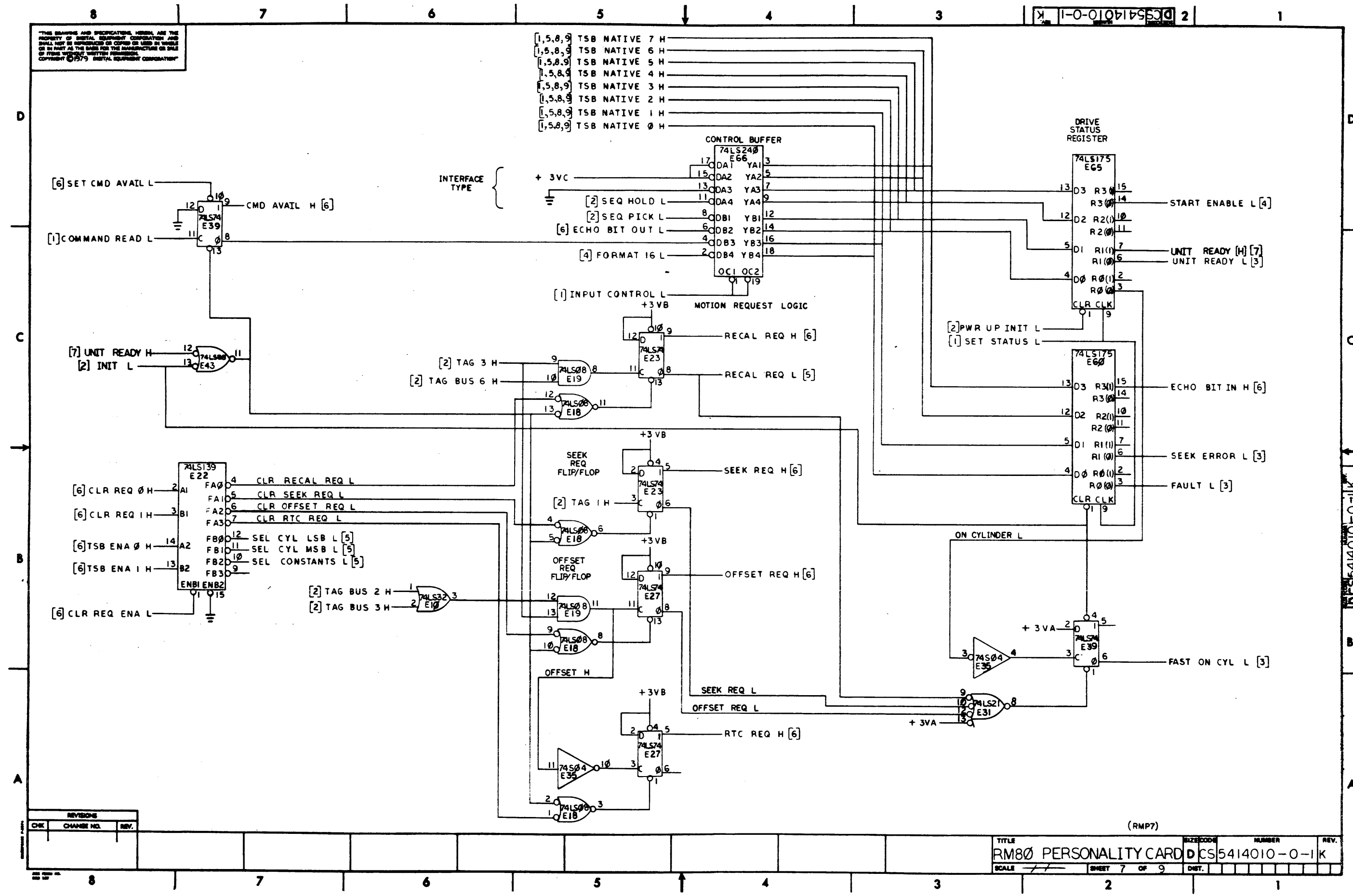
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE CODE		NUMBER		REV.	
RM80 PERSONALITY CARD		DCS 5414010-0-1		K		K	
SCALE		SHEET		OF		DST.	
1:1		6 OF 9					

DCS 5414010-0-1 K

(RMP6)

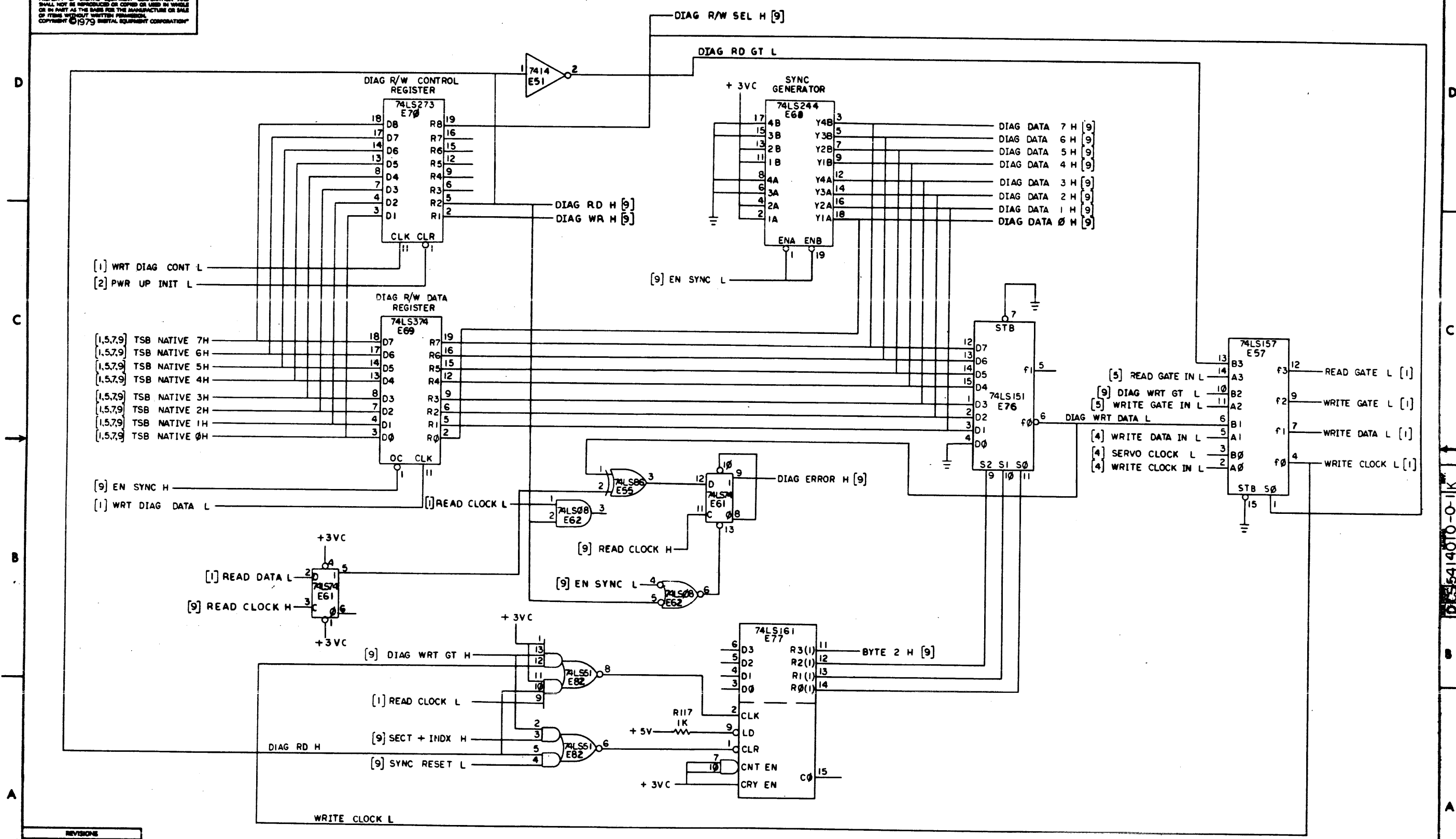
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REVISIONS		
CHK	CHANGE NO.	REV.

(RMP7)

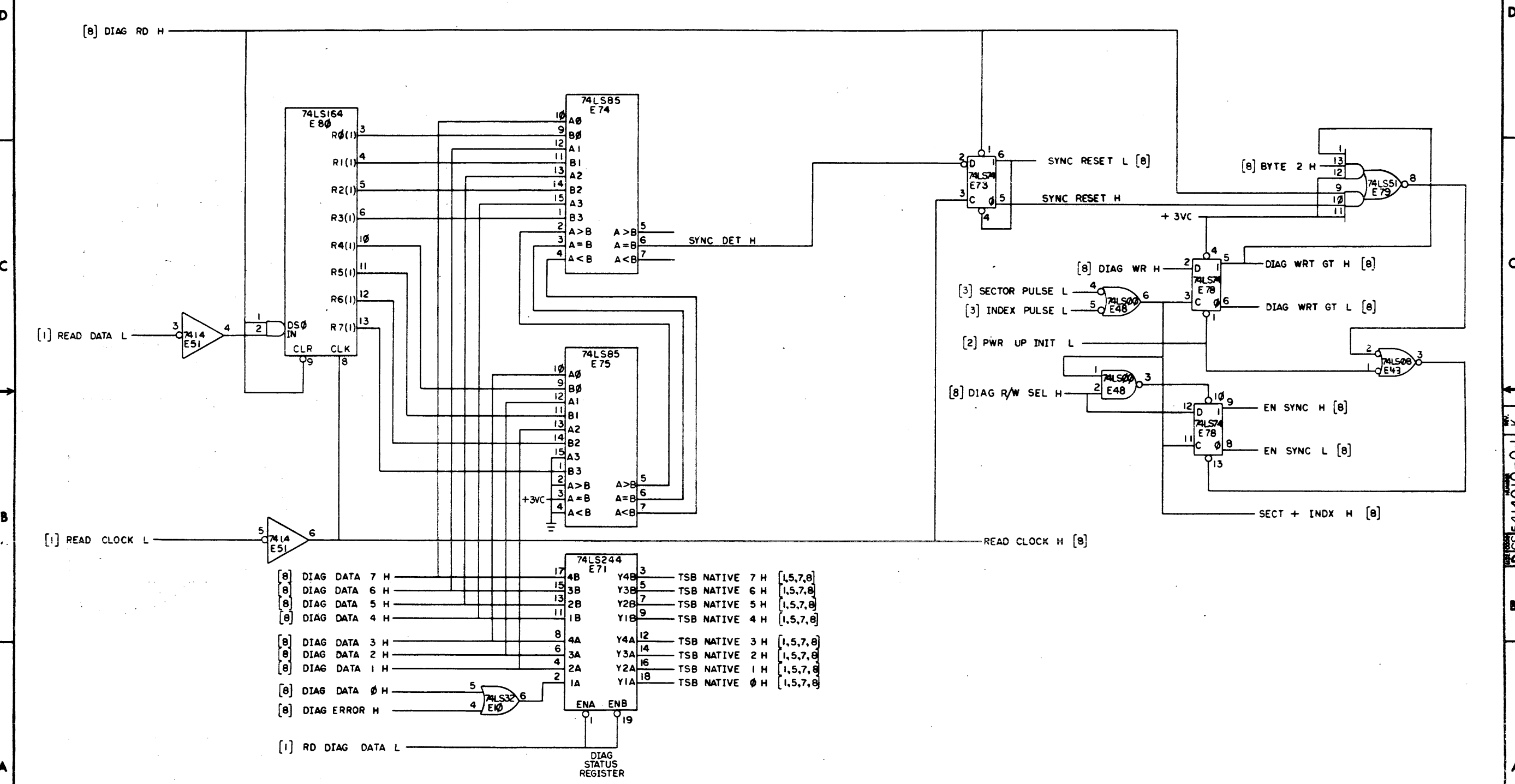
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CHK	CHANGE NO.	REV.

DCS 5414010-0-1 K

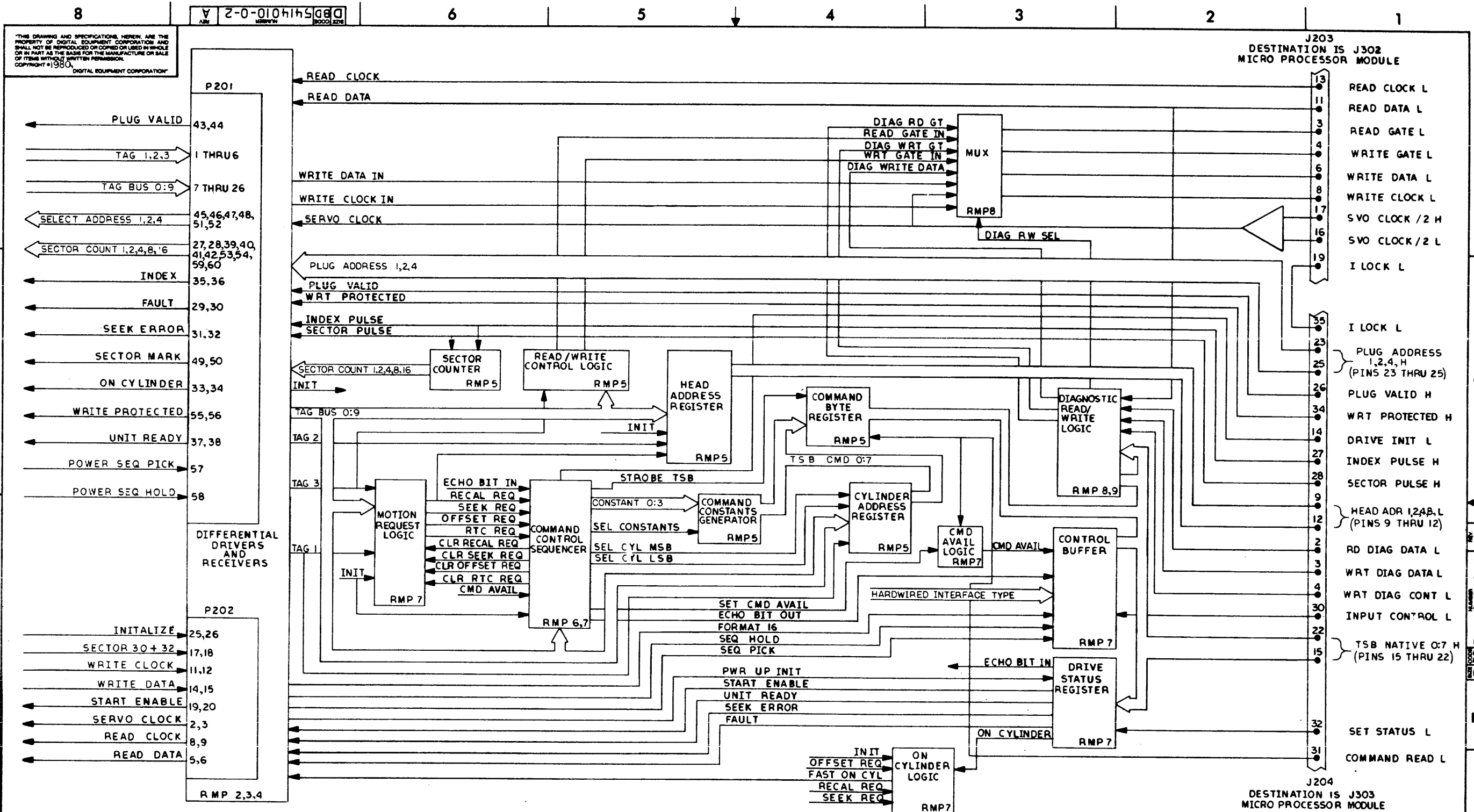
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REVISIONS		
CHK	CHANGE NO.	REV.

(RMP9)		TITLE	SIZE CODE	NUMBER	REV.
		RM80 PERSONALITY CARD	DCS 5414010-0-1	K	
SCALE	SHEET	DIST.			
	9 OF 9				

DCS 5414010-0-1 K



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J203
DESTINATION IS J302
MICRO PROCESSOR MODULE

J204
DESTINATION IS J303
MICRO PROCESSOR MODULE

DATE	ECO NUMBER	REV.
2/1/81	214	A
RELEASED TO B1 AT REV A		

DATE: 6/2/80	DATE: 29 JAN 81	TITLE: RM80 PERSONALITY CARD
DATE: N/A	DATE:	DOCUMENT NUMBER: DBD5414010-0-2
DATE: 7/1/81	DATE:	SCALE: 1
DATE: N/A	DATE:	SHEET: 1
B-TC-RM80-0-1		

DBD5414010-0-2 A