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FIELD MAINTENANCE PRINT SET

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 D-TD-RK07-0-8
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 D-AH-M7705-0-5 (SHT 1 ONLY)
 D-CS-M7705-0-1
 B-PL M7705-0-0
 D-AH-M7706-0-5 (SHT 1 ONLY)
 D-CS-M7706-0-1
 B-PL-M7706-0-0
 D-UA-M7907-0-5 (SHT 1 ONLY)
 D-CS-M7907-0-1
 B-PL-M7907-0-0
 D-UA-M7906-0-5 (SHT 1 ONLY)
 D-CS-M7906-0-1
 B-PL-M7906-0-0

UNIT VARIATIONS COVERED BY THIS PRINT SET
RK07-AA
RK07-AB
RK07-AC
RK07-AD
RK07-BA
RK07-BB
RK07-BC
RK07-BD

RK07
Field Maintenance
Print Set

Digital Equipment
Corporation
PRINT SET NO.
MP00576

DATE	CHG. NO.	REV	ORIGINATED
4-78	RK07-ML03	B	

USED ON OPTION/MODEL	DBN	DATE
RK07	<i>[Signature]</i>	1 Jan 78
	<i>[Signature]</i>	12 Jan 78
	<i>[Signature]</i>	13 Jan 78
	<i>[Signature]</i>	14 Jan 78

CHK'D	DATE
<i>[Signature]</i>	12 Jan 78
<i>[Signature]</i>	13 Jan 78
<i>[Signature]</i>	14 Jan 78

digital

TITLE: RK07 DISK DRIVE

SIZE	CODE	NUMBER	REV.
B	TC	RK07-0-1	B
DIST.			

SIZE B
 CODE TC
 NUMBER RK07-0-1
 REV. B

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TRACK POSITION DETECTOR/PLO
 TRACK POSITION DETECTOR/PLO
 TRACK POSITION DETECTOR/PLO
 OPERATORS CONTROL PANEL
 OPERATORS CONTROL PANEL
 OPERATORS CONTROL PANEL
 SERVO PREAMP
 SERVO PREAMP
 SERVO PREAMP
 PHOTO TRANSDUCER PREAMPLIFIER
 RK07 READ/WRITE
 RK07 READ/WRITE
 RK07 READ/WRITE
 H767 POWER SUPPLY
 H767 POWER SUPPLY
 H767 POWER SUPPLY
 POWER SUPPLY CAP BOARD
 RK06 CABLING BOARD
 RK06 CABLING BOARD
 RK06 TRANSITION BOARD
 RK06 TRANSITION BOARD
 AWT REVISION STATUS
 WIRE LIST (SINGLE PORT)
 CIRCUIT SCHEMATIC RK06 BACK PANEL
 CIRCUIT SCHEMATIC SPINDLE BRAKE ASSY
 DUAL PORT LOGIC
 DUAL PORT LOGIC
 DUAL PORT LOGIC
 DUAL PORT LOGIC
 DUAL PORT LOGIC
 AWT REVISION STATUS
 WIRE LIST (DUAL PORT)

D-UA-M7908-0-5 (SHT 1 ONLY)
 D-CS-M7908-0-1
 B-PL-M7908-0-0
 D-AH-5411823-0-5 (SHT 1 ONLY)
 D-CS-5411823-0-1
 A-PL-5411823-0-0
 D-AH-5411687-0-5 (SHT 1 ONLY)
 D-CS-5411687-0-1
 B-PL-5411687-0-0
 D-CS-5411881-0-1
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 D-CS-5411060-YA
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 D-CS-5411042-0-1
 A-PL-5411042-0-0
 D-CS-5411040-0-1
 D-AH-M9016-0-5 (SHT 1 ONLY)
 D-CS-M9016-0-1
 D-AH-5411893-0-5 (SHT 1 ONLY)
 D-CS-5411893-0-1
 A-WT-7012474-0
 K-WL-7012474-0-DBW (COMPLETE)
 D-CS-5411864-0-1
 D-CS-7012940-0-1
 D-UA-M7730-0-0 (SHT 1 ONLY)
 D-CS-M7730-0-1
 D-BD-M7730-0-2
 D-TD-M7730-0-3
 B-PL-M7730-0-0
 A-WT-7012474-1
 K-WL-7012474-1-DBW (COMPLETE)

TITLE	RK07 DISK DRIVE	SIZE CODE	NUMBER	REV
		B TC	RK07-0-1	B
SHEET 2 OF 2				

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- NOTES:
- * TWO M77Ø6 BOARDS ONLY USED WITH DUAL ACCESS OPTION, OTHERWISE ONLY ONE IS USED AS FOLLOWS:
IN SLOT 2 WHEN B ACCESS SELECTED.
IN SLOT 3 WHEN A ACCESS SELECTED.
 - * DUAL PORT LOGIC BOARD USED WITH DUAL ACCESS OPTION.

M79Ø8	TRK ERR <input type="checkbox"/> GAIN	TRK ERR <input type="checkbox"/> ZERO	M79Ø8					
M79Ø6	RUN <input type="checkbox"/> SW2	MAINT <input type="checkbox"/> OFFSET ADJ	VEL ADJ	MAINT <input type="checkbox"/> RUN SW1	M79Ø6			
M79Ø7	CLY ADDR	2 ⁹ 2 ⁸ 2 ⁷ 2 ⁶ 2 ⁵ 2 ⁴ 2 ³ 2 ² 2 ¹ 2 ⁰	OFFSET HDS	RTZ	LD HDS	FWD	REV	M79Ø7
M77Ø5	UNLD HDS	BRUSHES	SPEED <input type="checkbox"/> ADJ	SPEED <input type="checkbox"/> OK	M77Ø5			
M773Ø*	A PORT	B PORT	A PORT	B REQ	INV <input type="checkbox"/> NORM	PORT B	ADDR SW	M773Ø*
M77Ø6*					DR. SEL. A	M77Ø6*		
M77Ø6*					DR. SEL. B	M77Ø6*		
M9Ø16					M9Ø16			

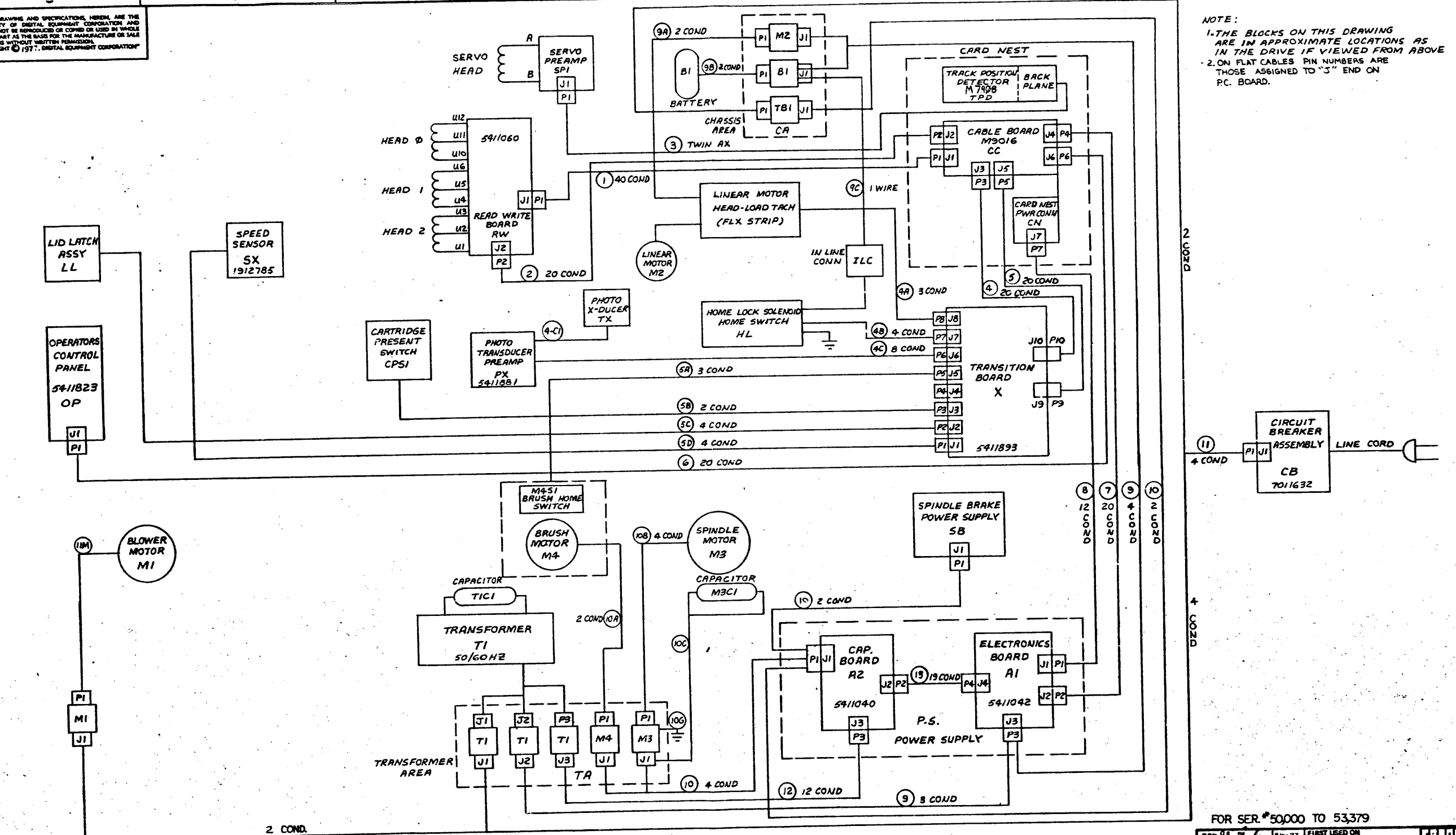
THIRD ANGLE PROJECTION	DRN. <i>[Signature]</i> 13 JUL 77	FIRST USED ON	RKØ7	digital
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D <i>[Signature]</i> 12 JAN 78	TITLE	MODULE UTILIZATION	
DO NOT SCALE DWG	ENG. <i>[Signature]</i> 12 JAN 78	LED LOCATOR		
MATERIAL	PROD. <i>[Signature]</i> 13 JUN 78	NEXT HIGHER ASSY.	SIZE	CODE
FINISH	SCALE	SHEET	D	MURKØ 7-Ø-4
		1 OF 1	DIST.	

REV. NO. 1
CHK
CHG
CHANGE NO.

DMURKØ 7-Ø-4

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NOTE:
 1. THE BLOCKS ON THIS DRAWING ARE IN APPROXIMATE LOCATIONS AS IN THE DRIVE IF VIEWED FROM ABOVE
 2. ON FLAT CABLES PIN NUMBERS ARE THOSE ASSIGNED TO "3" END ON P.C. BOARD.



FOR SER.#50000 TO 53379

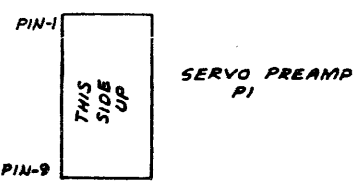
DRN	7/2/77	FIRST USED ON	RK07
CHKD	12/30/76	TITLE	RK07 SYSTEMS CABLEING
ENG	12/20/77	SCALE	1" = 1'
PROJ. EN.	12/20/77	SHEET	1 OF 14
PROD. EN.	12/20/77	SIZE	D I C
NEXT HIGHER ASSY.		NUMBER	RK07-0-3
SCALE		DIST.	
SHEET		REV.	A

REV. 1
 DATE 12/20/77
 CHKD BY 12/30/76
 ENG BY 12/20/77
 PROJ. EN. 12/20/77
 PROD. EN. 12/20/77
 N. CASTELLANOS
 2-10-77

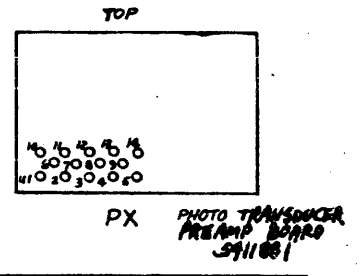
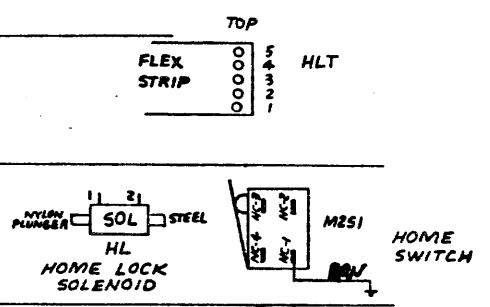
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SIGNAL NAME	CABLE CARD (CC) SLOT-1 BACK-PLANE PIN	CABLE NUMBER	R/W-BOARD (RW) CABLE CONN-PIN	REMARKS
GND-C	J1/P1-A	① 40 COND R/W (GREY)	P1/J1-UU	
GND-C	J1/P1-B		P1/J1-VV	
CYL-ADD 7 H	DNZ J1/P1-C		P1/J1-TT	
CYL-ADD 6 H	DPZ J1/P1-D		P1/J1-SS	
	J1/P1-E		P1/J1-RR	
CYL-ADD 8 H	DR1 J1/P1-F		P1/J1-PP	
+5B	DAZ J1/P1-H		P1/J1-NN	
+5B	DAZ J1/P1-J		P1/J1-MM	
+25B	DEZ J1/P1-K		P1/J1-LL	
+25B	DEZ J1/P1-L		P1/J1-KK	
GND-C	J1/P1-M		P1/J1-JJ	
	J1/P1-N		P1/J1-HH	
GND-C	J1/P1-P		P1/J1-FF	
WR DATA L	DSZ J1/P1-R		P1/J1-EE	
GND-C	J1/P1-S		P1/J1-DD	
WR GATE L	DUZ J1/P1-T		P1/J1-CC	
ALIGN SIGN+	DM1 J1/P1-U		P1/J1-BB	
ALIGN SIGN-	DN1 J1/P1-V		P1/J1-AA	
SET CURR FAULT	DMZ J1/P1-W		P1/J1-Z	
SET HD FAULT L	DY1 J1/P1-X		P1/J1-Y	
SET MMT HD L	DLZ J1/P1-Y	P1/J1-X		
	J1/P1-Z	P1/J1-W		
GND-B	J1/P1-AA	P1/J1-V		
-15V	DBZ J1/P1-BB	P1/J1-U		
SET NO TRNS L	DKZ J1/P1-CC	P1/J1-T		
SET NO TRNS L	DKZ J1/P1-DD	P1/J1-S		
UNS TST	DJZ J1/P1-EE	P1/J1-R		
	J1/P1-FF	P1/J1-Q		
GND-B	J1/P1-HH	P1/J1-P		
+15V	DDZ J1/P1-JJ	P1/J1-N		
+25A	DEZ J1/P1-KK	P1/J1-M		
+25A	DEZ J1/P1-LL	P1/J1-L		
+5A	DAZ J1/P1-MM	P1/J1-K		
+5A	DAZ J1/P1-NN	P1/J1-J		
	J1/P1-PP	P1/J1-I		
HDB L	DE1 J1/P1-RR	P1/J1-H		
HDI L	DH2 J1/P1-SS	P1/J1-G		
HDZ L	DFZ J1/P1-TT	P1/J1-F		
GND A	J1/P1-UU	P1/J1-E		
GND A	J1/P1-VV	P1/J1-D		

SIGNAL NAME	SERVO PREAMP (SPA) PIN	WIRE COLOR	CABLE NUMBER	M7708 BACK PLANE PIN TPD	REMARKS
+15V	SPI-J1/P1-2	ORN	③ TWIN AX SERVO PREAMP	SLOT 8 CDZ	
GND	SPI-J1/P1-3	BLK		SLOT 8 CC2	
SVO PRE B	SPI-J1/P1-6	BLU		SLOT 8 DP2	
SVO PRE COM	SPI-J1/P1-7	WHT		SLOT 8 DMT	DRAIN
SVO PRE A	SPI-J1/P1-8	CLEAR		SLOT 8 DJ2	

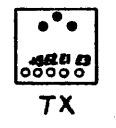


SIGNAL NAME	CABLE CARD (CC) SLOT-1 BACK-PLANE PIN	CABLE NUMBER	TRANSITION BOARD (X)		WIRE COLOR	CABLE NUMBER	TERMINAL	REMARKS
			CONN	CONN				
HD LD #2 (BUCKING)	CR2	J3/P3-A	P10/J10-X	J8/P8-1	YEL	④-A 3 COND HEAD LOAD TACH	HLT-5	
HD LD COMMON	CS2	J3/P3-B	P10/J10-W	J8/P8-3	GRY		HLT-4	
HD LD #1 (TACH)	CP2	J3/P3-C	P10/J10-V	J8/P8-2	GRN		HLT-3	
GND		J3/P3-D	P10/J10-U	J8/P8-4				
HOME L	CN2	J3/P3-E	P10/J10-T	J7/P7-1	ORN	④-B 4 COND HOME SW HOME LOCK	HLM251-4	
+25V	CE2	J3/P3-F	P10/J10-S	J7/P7-3	VIO		HLSOL-1	
HOME LOCK RELEASE L	CM2	J3/P3-H	P10/J10-R	J7/P7-2	YEL		HLSOL-2	
GND		J3/P3-J	P10/J10-P	J7/P7-4	BLK		HLM251-3	
LIM PA	CL2	J3/P3-K	P10/J10-N	J6/P6-8	VIO	④-C 8 COND PHOTO TRANSDUCER	PXU12	
GND		J3/P3-L	P10/J10-M	J6/P6-1			PXU9	
+COS PA	CK2	J3/P3-M	P10/J10-L	J6/P6-10	GRN		PXU14	
GND		J3/P3-N	P10/J10-K	J6/P6-3				
-SIN PA	CJ2	J3/P3-P	P10/J10-J	J6/P6-9	YEL			
GND		J3/P3-R	P10/J10-H					
		J3/P3-S	P10/J10-F					
+15V	CD2	J3/P3-T	P10/J10-E	J6/P6-6	ORN		PXU4	
LED CATHODE	CH1	J3/P3-U	P10/J10-D	J6/P6-7	WHT		PXU6	
-15V	CB2	J3/P3-V	P10/J10-C	J6/P6-4	BLU		PXU8	
GLASS XDR COM (GND)	CF1	J3/P3-W	P10/J10-B	J6/P6-5	BLK	PXU1		
+5V	CA2	J3/P3-X	P10/J10-A	J6/P6-2	RED	PXU2		



SIGNAL NAME	CABLE CARD (CC) SLOT-1 BACK-PLANE PIN	CABLE NUMBER	R/W-BOARD (RW) CABLE CONN-PIN	REMARKS
+15	DDZ J2/P2-A	② 20 COND R/W (GREY)	P2/J2-X	
+15	DDZ J2/P2-B		P2/J2-W	
GND D	J2/P2-C		P2/J2-V	
GND D	J2/P2-D		P2/J2-U	
-5	DRZ J2/P2-E		P2/J2-T	
-5	DRZ J2/P2-F		P2/J2-S	
GND	J2/P2-H		P2/J2-R	
GND	J2/P2-J		P2/J2-Q	
+5C	DAZ J2/P2-K		P2/J2-N	
+5C	DAZ J2/P2-L		P2/J2-M	
GND-D	J2/P2-M		P2/J2-L	
GND-D	J2/P2-N		P2/J2-K	
WR-GATE-L	CV1 J2/P2-P		P2/J2-J	
GND-D	J2/P2-R		P2/J2-H	
RD DATA 2 L	CUZ J2/P2-S		P2/J2-F	
GND D	J2/P2-T		P2/J2-E	
RD DATA 1 L	CUI J2/P2-U		P2/J2-D	
GND D	J2/P2-V		P2/J2-C	
GND D	J2/P2-W		P2/J2-B	
GND D	J2/P2-X		P2/J2-A	

SIGNAL NAME	PHOTO TRANSDUCER PREAMP (PX)	WIRE COLOR	CABLE NUMBER	TRANSDUCER ASSEMBLY (TX)	REMARKS
SIN X (E1)	PX-U5	YEL	④-C 6 WIRES (PART OF PHOTO TRANS ASSY)	TX-E1	
-COS X (E2)	PX-U13	GRN		TX-E2	
LIM-X (E3)	PX-U3	VIO		TX-E3	
PHOTO DIODE CATH (H4)	PX-U11	BRN		TX-+5	
LED ANODE (+5V)	PX-U7	RED		TX-AN	
LED CATHODE	PX-U10	WHT		TX-CA	

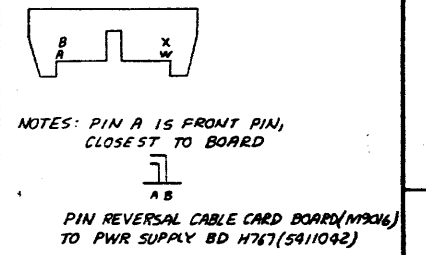


REV	CHANGE NO.	REV.

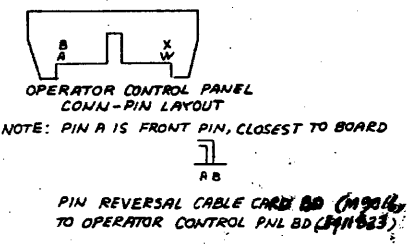
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SIGNAL NAME	CABLE CARD (CC) SLOT-1		CABLE NUMBER	TRANSITION BOARD (X)		WIRE COLOR	CABLE NUMBER	TERMINAL	REMARKS		
	BACK-PLANE PIN	CABLE CONN-PIN		CONN	CONN						
BRUSH HOME SW L BRUSH HOME SW H GND	BM2 BP2 BM2	J5/P5-A J5/P5-B J5/P5-C J5/P5-D	5	P9/J9-X P9/J9-W P9/J9-V P9/J9-U	J5/P5-1 J5/P5-3 J5/P5-2 J5/P5-4	BLU YEL BLK	3 COND BRUSH HOME SW	M451-NO M451-NC M451-COM	BRUSH HOME SWITCH 		
DR IN PLACE SOL L +25V DR IN PLACE L GND	BL2 BE2 BK2	J5/P5-E J5/P5-F J5/P5-H J5/P5-J		20 COND (GREY)	P9/J9-T P9/J9-S P9/J9-R P9/J9-P	J4/P4-2 J4/P4-3 J4/P4-1 J4/P4-4	NOT USED	NOT USED			
CART PRES L GND	BJ2 BH2	J5/P5-K J5/P5-L J5/P5-M J5/P5-N			CHASSIS AREA SEE PAGE 5 FIG 5	P9/J9-N P9/J9-M P9/J9-L P9/J9-K	J3/P3-3 J3/P3-4 J3/P3-1 J3/P3-2	BLU BLK	2 COND CART. PRESENT	CPS1-NO CPS1-COM	CARTRIDGE PRESENT SWITCH
LID LOCKED L GND +25V LID LOCKED SOL L	BF2 BE2 BE1	J5/P5-P J5/P5-R J5/P5-S J5/P5-T				FOR CABLE CARD CONN LAYOUT FIG 4 FOR TRANSITION BOARD CONN LAYOUT	P9/J9-J P9/J9-H P9/J9-F P9/J9-E	J2/P2-3 J2/P2-2 J2/P2-4 J2/P2-1	BLU BLK VIO YEL	4 COND LID LOCK	LLS1-NO LLS1-COM LLSOL-1 LLSOL-2
SPINDLE SPEED GND LED CATHODE LED ANODE (+5)	BC1 BB1 BA1	J5/P5-U J5/P5-V J5/P5-W J5/P5-X	BOARD CONN LAYOUT	P9/J9-D P9/J9-C P9/J9-B P9/J9-A	J1/P1-4 J1/P1-2 J1/P1-3 J1/P1-1	BRN YEL BLK RED	4 COND SPEED TRANS.	SX-2 SX-1 SX-3 SX-4	SPEED SWITCH 		

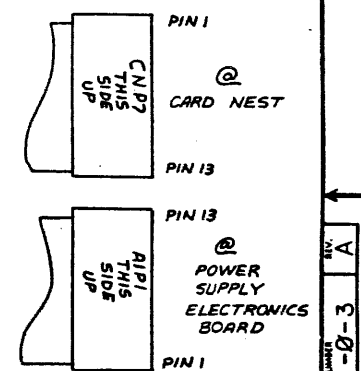
SIGNAL NAME	CABLE CARD (CN) SLOT 1		CABLE NUMBER	POWER SUPPLY ELECTRONICS BOARD (PSA1) CONN PIN	REMARKS
	BLACK-PLANE PIN	CABLE CONN PIN			
EMITTER TEST PT SPARE AC LOW L GND SPINDLE ON L GND CN BRUSHES L GND SPINDLE BRAKE L GND REMOTE SENSE C GND CURRENT COMMAND GND REMOTE SENSE A GND (UNUSED) REMOTE SENSE B GND (UNUSED) DC LOW L GND	BJ1 BV1 CE1 CD1 CC1 CB1 CA1 BV2 BU2 BS2 BR2	J4/P4-A J4/P4-B J4/P4-C J4/P4-D J4/P4-E J4/P4-F J4/P4-H J4/P4-J J4/P4-L J4/P4-M J4/P4-N J4/P4-P J4/P4-R J4/P4-S J4/P4-T J4/P4-U J4/P4-V J4/P4-W J4/P4-X	7 20 COND POWER SUPPLY SIGNAL (GREY)	AI-P2/J2-X AI-P2/J2-W AI-P2/J2-Y AI-P2/J2-U AI-P2/J2-T AI-P2/J2-S AI-P2/J2-R AI-P2/J2-P AI-P2/J2-N AI-P2/J2-M AI-P2/J2-L AI-P2/J2-K AI-P2/J2-J AI-P2/J2-I AI-P2/J2-H AI-P2/J2-F AI-P2/J2-E AI-P2/J2-D AI-P2/J2-C AI-P2/J2-B AI-P2/J2-A	SEE PAGE 5 FIG 5 FOR CABLE CARD CONN PIN LAYOUT. FIG 3 FOR POWER SUPPLY ELECT BOARD(A1) CONN LAYOUT
▲ REMOTE SENSE C IS ANALOG GND REMOTE SENSE B IS GND					



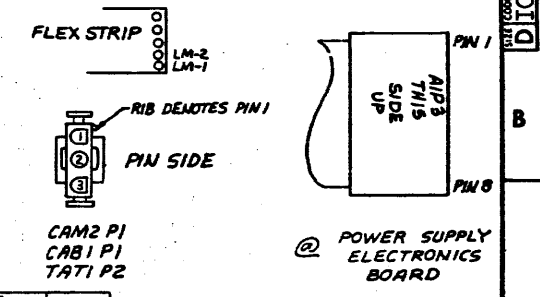
SIGNAL NAME	CABLE CARD (CN) SLOT-1		CABLE NUMBER	OPERATOR CONTROL PANEL (CP) CONN-PIN	REMARKS
	BACK-PLANE PIN	CABLE CONN-PIN			
UB L UI L UZ L RUN (I) H WRL (I) L STOPPED LITE H QUAL L GND RUN SW L GND +5 +5 READY (O) H FAULT L SW EN B L SW EN A H WR PROT SW L UNUSED DR SEL A DR SEL B	AR2 AS2 AP2 AU2 AN2 AV2 AM2 AL2 AA2 AAZ AB1 AJ2 AC1 AH2 AF2 AE2	J6/P6-A J6/P6-B J6/P6-C J6/P6-D J6/P6-E J6/P6-F J6/P6-G J6/P6-H J6/P6-I J6/P6-J J6/P6-K J6/P6-L J6/P6-M J6/P6-N J6/P6-O J6/P6-P J6/P6-Q J6/P6-R J6/P6-S J6/P6-T J6/P6-U J6/P6-V J6/P6-W J6/P6-X	6 20 COND OPER CONTROL PANEL (GREY)	P1/J1-X P1/J1-W P1/J1-V P1/J1-T P1/J1-S P1/J1-R P1/J1-P P1/J1-M P1/J1-L P1/J1-K P1/J1-J P1/J1-I P1/J1-H P1/J1-F P1/J1-E P1/J1-D P1/J1-C P1/J1-B P1/J1-A	SEE PAGE 5 FIG 5 FOR CABLE CARD CONN LAYOUT



SIGNAL NAME	POWER SUPPLY (PS)	WIRE COLOR	CABLE NUMBER	CARD NEST POWER (CN)	REMARKS
+5V +5V +5V +5V +25V +5V GND GND GND GND -15V -5V	AIJ1/PI-1 AIJ1/PI-2 AIJ1/PI-3 AIJ1/PI-4 AIJ1/PI-5 AIJ1/PI-6 AIJ1/PI-7 AIJ1/PI-8 AIJ1/PI-9 AIJ1/PI-10 AIJ1/PI-11 AIJ1/PI-12	RED RED RED RED VIO ORN BLK BLK BLK BLK BLU GRN	8 12 COND DC POWER	CNP7/J7-1 CNP7/J7-2 CNP7/J7-3 CNP7/J7-4 CNP7/J7-5 CNP7/J7-6 CNP7/J7-7 CNP7/J7-8 CNP7/J7-9 CNP7/J7-10 CNP7/J7-11 CNP7/J7-12	



SIGNAL NAME	POWER SUPPLY (PS)	WIRE COLOR	CABLE NUMBER	CONN. * CHASSIS AREA (CA) TRANSFORMER AREA (TA)	WIRE COLOR	CABLE NUMBER	TERMINAL	REMARKS
LINEAR MOTOR BATTERY + BATTERY - 13V RMS 13V RMS GND HOME SWITCH	AIJ3/P3-1 AIJ3/P3-2 AIJ3/P3-3 AIJ3/P3-4 AIJ3/P3-6 AIJ3/P3-7 AIJ3/P3-8 HLM25/M2	RED RED BRN BLK YEL YEL BLK GRN**	9 POWER SUPPLY 9 COND (3 BRANCHES) SEE NOTE 1.	CAB1/J1-1 CAB2/J2-1 CAB1/J1-1 CAB1/J1-1 TATI/J2/P2-1 TATI/J2/P2-2 TATI/J2/P2-3	BRN WHT BRN BLK YEL YEL YEL/BLK	9A 9B 9C 9D 9E 9F 9G	LM-2 LM-1 BI-POS BI-NEG TRANSFORMER TRANSFORMER TRANSFORMER JUMPER	

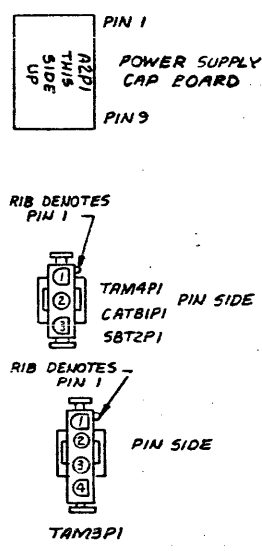


NOTE 1. SEE PAGE 5 FIGURE 3 FOR POWER SUPPLY ELECTRONIC BOARD A1 CONN LAYOUT.
* SEE PAGE 5 FIGURE 6 FOR CA AREA LAYOUT, FIGURE 7 FOR TA AREA LAYOUT.

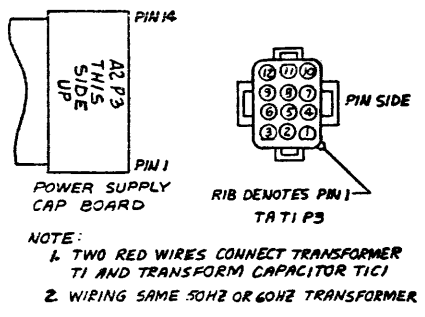
** INLINE CONNECTOR (ILC) IN RUN TO FACILITATE REMOVAL OF BASE PLATE/HOMELock ASSY

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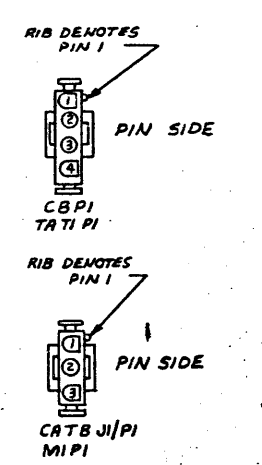
SIGNAL NAME	POWER SUPPLY (PS)	WIRE COLOR	CABLE NUMBER	CONN * TA SB CA	WIRE COLOR	CABLE NUMBER	REMARKS
BRUSH MOTOR (HOT) [10V]	AZPI/J1-1	RED	10	TAMAJI/PI-1	BLK	10-A	BRUSH MOTOR
BRUSH MOTOR (LOW) [NEUT]	AZPI/J1-2	WHT		TAMAJI/PI-3	BLK		
SPINDLE BRAKE P.S. [110V]	AZPI/J1-3	RED	9 COND 4 BRANCHES	SBPI/J1-1			SPINDLE BRAKE POWER SUPPLY
SPINDLE BRAKE P.S. [NEUT]	AZPI/J1-4	WHT		SBPI/J1-2			
SPINDLE MOTOR (LOW)	AZPI/J1-5	WHT	MOTOR AND AC	TAM3JI/PI-2	RED	10-B	SPINDLE MOTOR
SPINDLE MOTOR (HOT)	AZPI/J1-6	RED		TAM3JI/PI-1	BLU		
110VAC (HOT)	AZPI/J1-7	RED	SEE PAGES FIG 2 FOR PWR SUPPLY CAP BOARD (A2) CONN LAYOUT	CATBIPI-1			AC-IN SEE ITEM FOR SOURCE 11
110VAC (NEUT)	AZPI/J1-8	WHT		CATBIPI-3			
12V BRAKE VOLT	AZPI/J1-9	BLU		SBPI/J1-3			SPINDLE BRAKE POWER SUPPLY
SPINDLE MOTOR CAP-N	M3C-2	WHT	10-C	TAM3JI/2	WHT	10-B	SPINDLE MOTOR CAP
SPINDLE MOTOR CAP-M	M3C-1	BLK		TAM3JI/3	BLK		
GND (CHASSIS)	CHASSIS	GRN/YEL	106	TAM3JI/PI-4	GRN/YEL		SPINDLE MOTOR CHASSIS



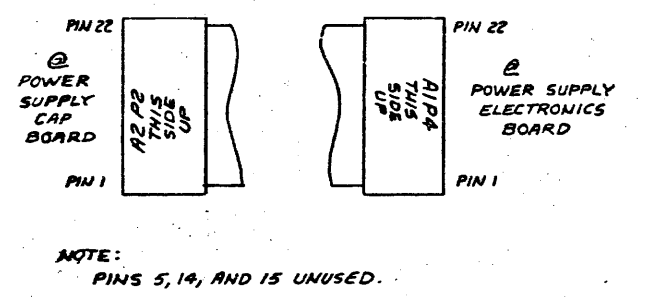
SIGNAL NAME	POWER SUPPLY (PS)	WIRE COLOR	CABLE NUMBER	TRANSFORMER AREA (TA) *	WIRE COLOR	CABLE NUMBER	REMARKS
+10V COMMON	AZJ3/P3-1	BLK	12 COND	TATI3/P3-1	BLU/WHT	12-T	SEE PAGE 5 FIG 3 FOR POWER SUPPLY ELEC BOARD (A2) CONN LAYOUT
+10V COMMON	AZJ3/P3-2	BLK		TATI3/P3-2	BLU/WHT		
+25V COMMON	AZJ3/P3-3	BLU		TATI3/P3-3	GRN/WHT		
+25V COMMON	AZJ3/P3-4	BLU		TATI3/P3-4	GRN/WHT		
57V RMS	AZJ3/P3-5	GRN		TATI3/P3-5	GRN/BLK		
37V RMS	AZJ3/P3-6	GRN		TATI3/P3-6	GRN/BLK		
37V RMS	AZJ3/P3-7	BLK		TATI3/P3-7	GRN		
37V RMS	AZJ3/P3-8	BLK		TATI3/P3-8	GRN		
13V RMS	AZJ3/P3-9	WHT		TATI3/P3-9	BLU/BLK		
13V RMS	AZJ3/P3-10	WHT		TATI3/P3-10	BLU/BLK		
13V RMS	AZJ3/P3-11	GRN		TATI3/P3-11	BLU		
13V RMS	AZJ3/P3-12	GRN		TATI3/P3-12	BLU		



SIGNAL NAME	CIRCUIT BREAKER (CB)	WIRE COLOR	CABLE NUMBER	CONN * TRANSFORMER-TR CHASSIS ASSY- CA BLOWER MOTOR-MI	WIRE COLOR	CABLE NUMBER	REMARKS
110VAC (HOT)	CBJI/PI-1	RED	11 4 COND (3 BRANCHES) A.C.	TATIJI/PI-1	BRN	11T	TRANSFORMER PRIMARY
110VAC (NEUT)	CBJI/PI-2	WHT		TATIJI/PI-2	BRN/WHT		
110VAC (HOT)	CBJI/PI-3	RED		TATIJI/PI-3	BLK		
110VAC (NEUT)	CBJI/PI-4	WHT		TATIJI/PI-4	BLK/WHT		
110VAC (HOT)	CBJI/PI-1	RED		CATBIJI-1	SEE ITEM 10 FOR CONTINUATION		
110VAC (NEUT)	GBJI/PI-2	WHT			CATBIJI-3		
110VAC (HOT)	CBJI/PI-3	RED		MIJI/PI-1	RED	11M	BLOWER MOTOR
111VAC (NEUT)	CBJI/PI-4	WHT			MIJI/PI-3		



SIGNAL NAME	POWER SUPPLY (PS)	WIRE COLOR	CABLE NUMBER	POWER SUPPLY (PS)	REMARKS
+10V	AIP4/J4-1	YEL	13 COND	AZJ2/P2-1	SEE PAGE 5 FIG 2 FOR P.S. CAP BOARD (A2) CONN LAYOUT
+10V	AIP4/J4-2	YEL		AZJ2/P2-2	
+10V	AIP4/J4-3	YEL		AZJ2/P2-3	
+10V	AIP4/J4-4	YEL		AZJ2/P2-4	
BATTERY-	AIP4/J4-6	BRN		AZJ2/P2-6	
LINEAR MOTOR PWR	AIP4/J4-7	VIO		AZJ2/P2-7	
LINEAR MOTOR DRIVER	AIP4/J4-8	GRY		AZJ2/P2-8	
-10V	AIP4/J4-9	BRN		AZJ2/P2-9	
-25V	AIP4/J4-10	GRY		AZJ2/P2-10	
-25V	AIP4/J4-11	GRY		AZJ2/P2-11	
+25V	AIP4/J4-12	VIO		AZJ2/P2-12	
+25V	AIP4/J4-13	VIO		AZJ2/P2-13	
GND	AIP4/J4-16	BLK		AZJ2/P2-16	
GND	AIP4/J4-17	BLK	AZJ2/P2-17		
GND	AIP4/J4-18	BLK	AZJ2/P2-18		
GND	AIP4/J4-19	BLK	AZJ2/P2-19		
SPINDLE BRAKE L	AIP4/J4-20	RED	AZJ2/P2-20		
EN BRUSHES L	AIP4/J4-21	RED	AZJ2/P2-21		
SPINDLE ON L	AIP4/J4-22	RED	AZJ2/P2-22		



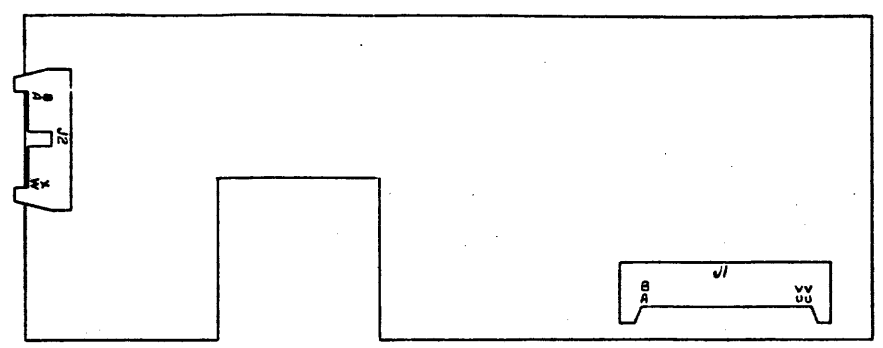
* SEE PAGE 5 FIG 6 FOR CA CONN LAYOUT
FIG 7 FOR TA CONN LAYOUT

FOR SER.# 50000 TO 53379

REV.	CHANGE NO.	REV.

TITLE	RK07 SYSTEMS CABLING	SIZE CODE	DICRK07-0-3	NUMBER	1	REV.	A
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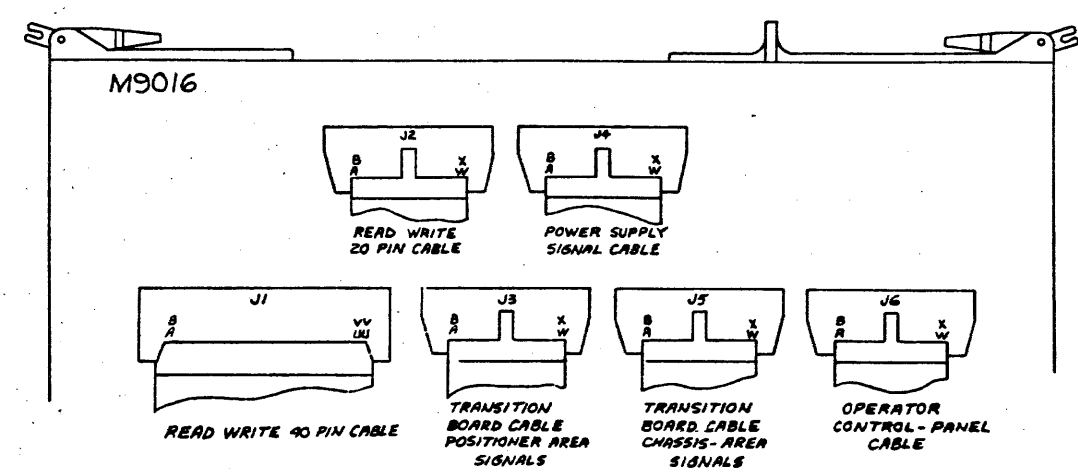
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R/W BOARD CONNECTOR LABELING

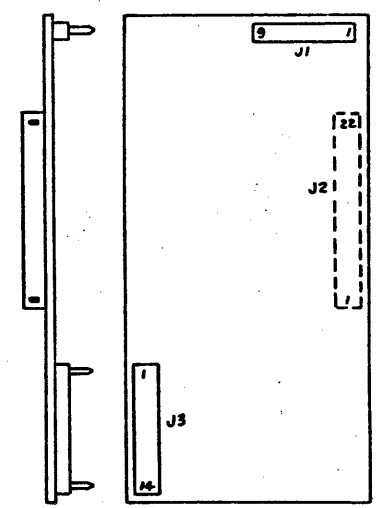
FIG. 1

NOTE:
1. PIN A FRONT PIN, CLOSEST TO BOARD



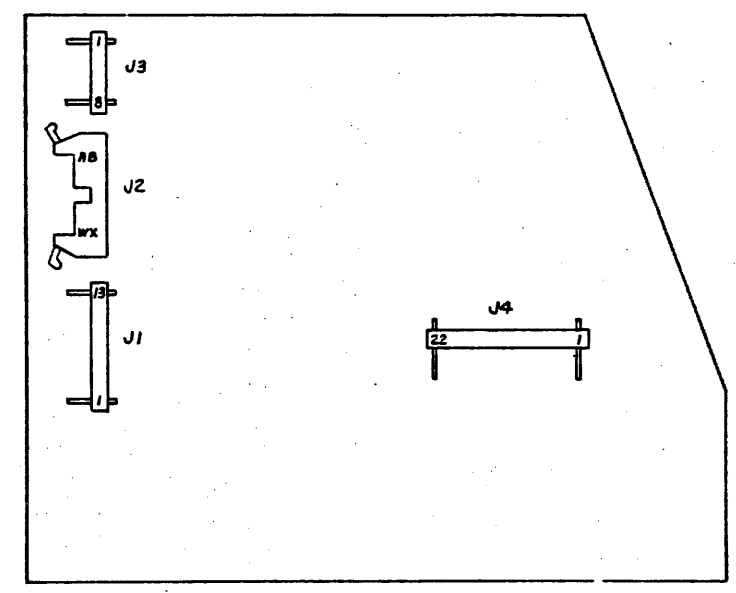
CABLE CARD
FIG. 5

NOTE:
PIN A IS FRONT PIN, CLOSEST TO BOARD



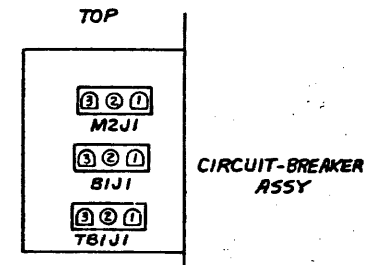
POWER SUPPLY CAP BOARD
A2

FIG. 2

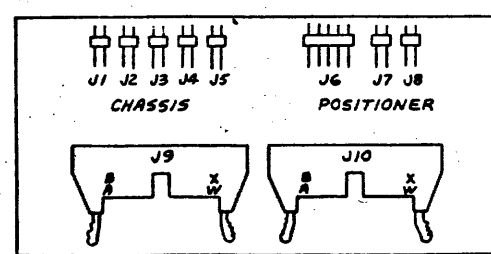
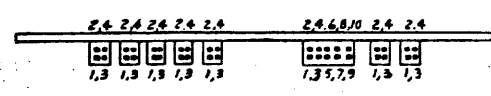


H767 POWER SUPPLY BOARD
A1

FIG. 3

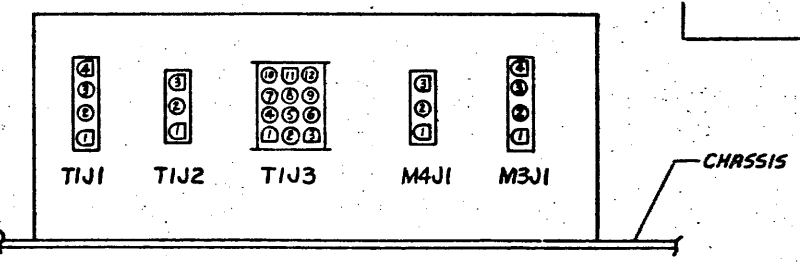


CHASSIS AREA CONN
CA
(PIN VIEW)
FIG. 6



TRANSITION BOARD
FIG. 4

NOTE:
PIN A IS FRONT PIN
CLOSEST TO BOARD



TRANSFORMER AREA CONNECTORS
TA
PIN VIEW
FIG. 7

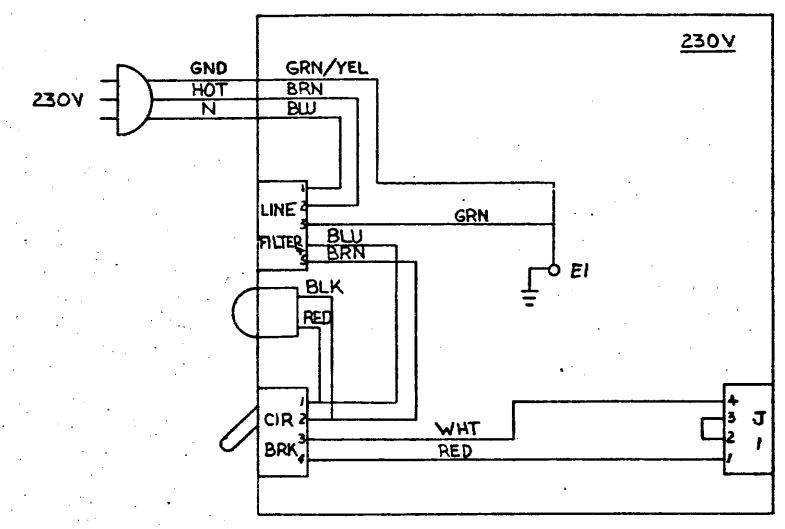
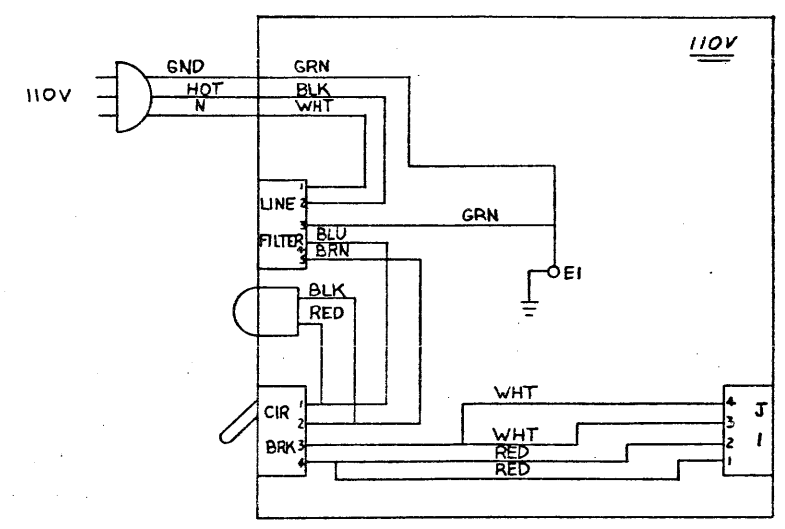
FOR SER #50000 TO 53379

REVISIONS		
CHK	CHANGE NO.	REV.

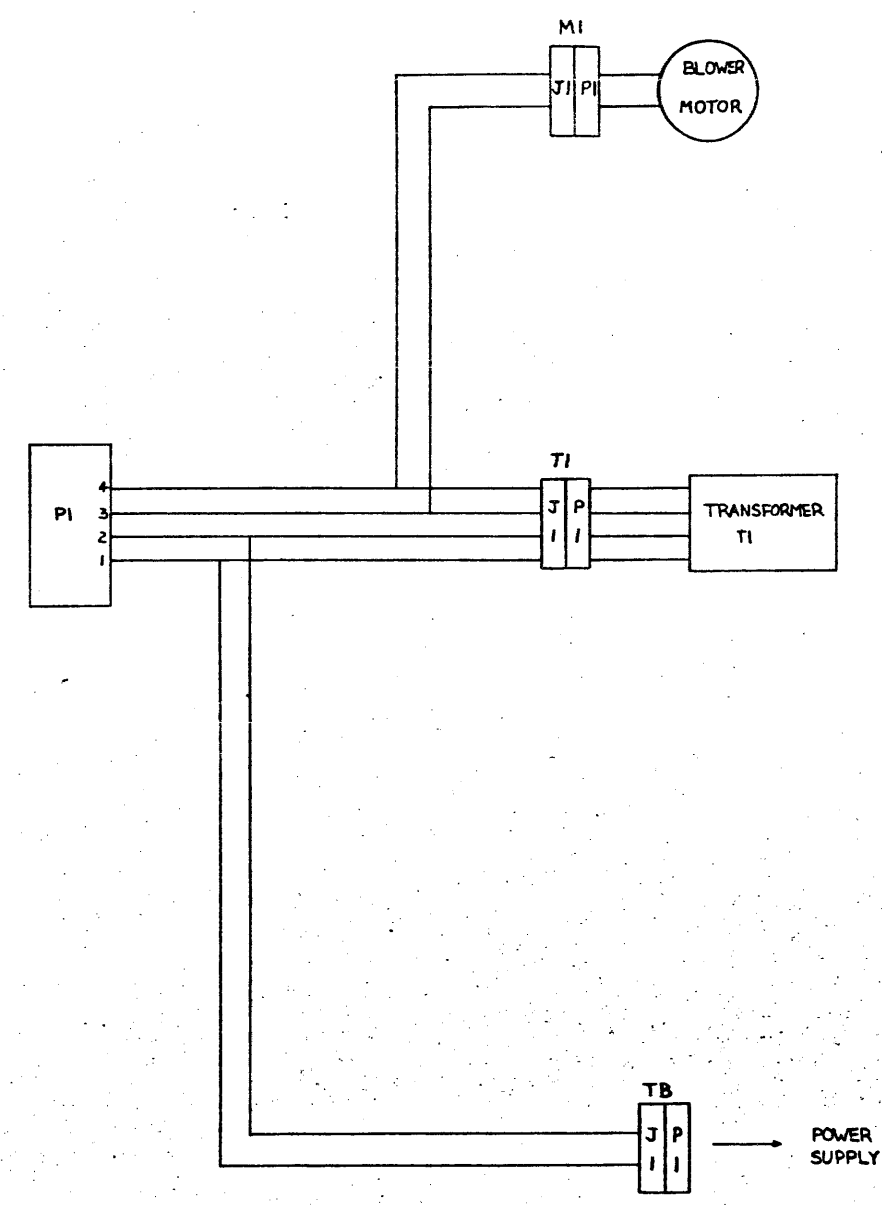
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SCALE	+	SHEET	5	OF	14	DIST.	

DIT CORP. PART NO. D1C RK07-0-3

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CIRCUIT BREAKER ASSY



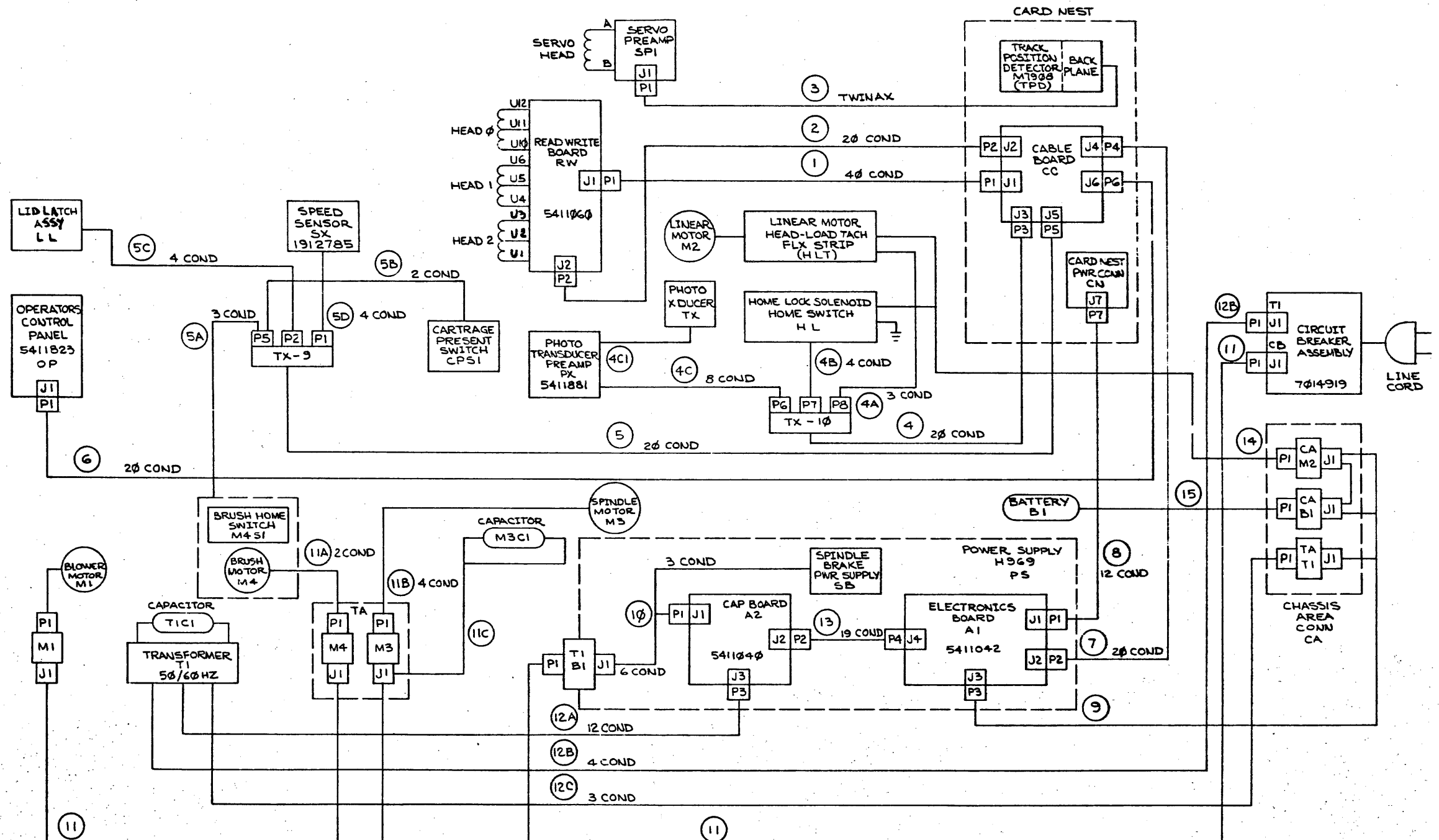
REVISIONS		
CHK	CHANGE NO.	REV.

FOR 50,000 TO 53,379

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SCALE	1/1	SHEET	6	OF	14	DIST.	

D
C
A
B
A

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REVISIONS
 CHANGE NO. REV.

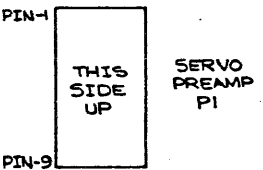
FOR SERIAL 53380 AND HIGHER

DRN. S. S. 12-1-78	FIRST USED ON	Digital
CHK'D M. C. 12-13-78	TITLE	RK07 SYSTEMS CABLING
ENG. M. C. 12-13-78	NUMBER	RK07-0-3
PROJ. ENG. M. C. 12-13-78	REV.	A
PROD. S. S. 12-13-78	SIZE CODE	D
NEXT HIGHER ASSY.	DIST.	
SCALE NONE		
SHEET 7 OF 14		

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SIGNAL NAME	CABLE CARD (CC) SLOT-1		CABLE NUMBER	R/W BOARD (RW) CABLE CONN PIN	REMARKS
	BACK-PLANE PIN	CABLE CONN PIN			
GND C		J1/PI-A	① 4Φ COND R/W (GREY)	P1/J1-UU	FOR R/W BOARD CONN LAYOUT SEE SHEET 5 FIG. 1
GND C		J1/PI-B		P1/J1-VV	
CYL ADD 7H	DN2	J1/PI-C		P1/J1-VY	
CYL ADD 6H	DP2	J1/PI-D		P1/J1-TT	
		J1/PI-E		P1/J1-SS	
		J1/PI-F		P1/J1-RR	
		J1/PI-H		P1/J1-PP	
		J1/PI-J		P1/J1-NN	
		J1/PI-K		P1/J1-MM	
		J1/PI-L		P1/J1-LL	
		J1/PI-M		P1/J1-KK	
		J1/PI-N		P1/J1-JJ	
		J1/PI-P		P1/J1-HH	
		J1/PI-R		P1/J1-FF	
		J1/PI-S		P1/J1-EE	
		J1/PI-T		P1/J1-DD	
		J1/PI-U		P1/J1-CC	
		J1/PI-V		P1/J1-BB	
		J1/PI-W		P1/J1-AA	
		J1/PI-X		P1/J1-Z	
		J1/PI-Y	P1/J1-Y		
		J1/PI-Z	P1/J1-X		
		J1/PI-AA	P1/J1-W		
		J1/PI-BB	P1/J1-V		
		J1/PI-CC	P1/J1-U		
		J1/PI-DD	P1/J1-T		
		J1/PI-EE	P1/J1-S		
		J1/PI-FF	P1/J1-R		
		J1/PI-HH	P1/J1-P		
		J1/PI-JJ	P1/J1-N		
		J1/PI-KK	P1/J1-M		
		J1/PI-LL	P1/J1-L		
		J1/PI-MM	P1/J1-K		
		J1/PI-NN	P1/J1-J		
		J1/PI-PP	P1/J1-I		
		J1/PI-RR	P1/J1-H		
		J1/PI-SS	P1/J1-G		
		J1/PI-TT	P1/J1-F		
		J1/PI-UU	P1/J1-E		
		J1/PI-VV	P1/J1-D		
		J1/PI-WW	P1/J1-C		
		J1/PI-XX	P1/J1-B		
		J1/PI-YY	P1/J1-A		

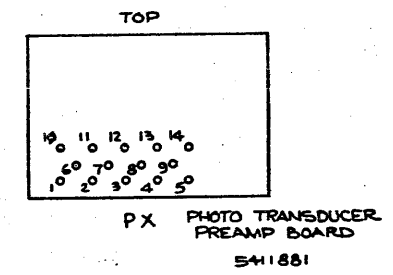
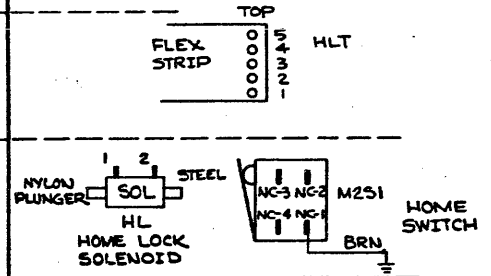
SIGNAL NAME	SERVO PREAMP (SPA) PIN	WIRE COLOR	CABLE NUMBER	M7708 BACK PLANE PIN (TPD)	REMARKS
+15V	SPI-J1/PI-2	ORN	③ TWINAX SERVO PREAMP	SLOT 8 CD2	DRAIN
GND	SPI-J1/PI-3	BLK		SLOT 8 CC2	
SVO PRE B	SPI-J1/PI-6	BLU		SLOT 8 DP2	
SVO PRE COM	SPI-J1/PI-7	BLU		SLOT 8 DMT	
SVO PRE A	SPI-J1/PI-8	WHT		SLOT 8 DU2	



XP6				XP7				XP8			
A	C	E	H	K	M	P	S	U	W		
0	0	0	0	0	0	0	0	0	0		
2	4	6	8	10	12	2	4	2	4		
B	D	F	J	L	N	R	T	V	X		
0	0	0	0	0	0	0	0	0	0		
1	3	5	7	9	11	1	3	1	3		

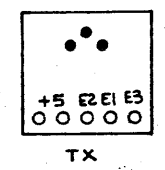
CONNECTOR TX-10
AS VIEWED FROM SIDE AND TOP OF DRIVE THE 20 PIN CABLE ON BOTTOM THE THREE XP CABLES ON TOP

SIGNAL NAME	CABLE CARD (CC) SLOT-1		CABLE NUMBER	CONNECTOR TX-10		WIRE COLOR	CABLE NUMBER	TERMINAL	REMARKS
	BACK-PLANE PIN	CABLE CONN PIN		CONN	CONN				
HD LD #2 (BUCKING)	CR2	J3/P3-A	④	P/J10-X	J/P8-3	YEL	④A 3 COND HEAD LEAD TACH	HLT-5	
HD LD COMMON	C52	J3/P3-B		P/J10-W	J/P8-4	GRY		HLT-4	
HD LD #1 (TACH)	CP2	J3/P3-C		P/J10-V	J/P8-1	GRN		HLT-3	
GND		J3/P3-D		P/J10-U	J/P8-2				
HOME L	CN2	J3/P3-E	2Φ COND (GREY)	P/J10-T	J/P7-3	ORN	④B 4 COND HOME SW HOME LOCK	HLM2S1-4	
+2EV	CE2	J3/P3-F		P/J10-S	J/P7-4	VIO		HLSOL-1	
HOME LOCK RELEASE L	CM2	J3/P3-H		P/J10-R	J/P7-1	YEL		HLSOL-2	
GND		J3/P3-J		P/J10-P	J/P7-2	BLK		HLM2S1-3	
LIM PA (SEE NOTE)	CL2	J3/P3-K	POSITIONER AREA SEE PAGE 5 FIG. 4 FOR CABLE CARD CONN LAYOUT	P/J10-N	J/P6-11	VIO	④C 8 COND PHOTO TRANSDUCER	PXU12	
GND	CK2	J3/P3-L		P/J10-M	J/P6-	GRN		PXU9	
+COS PA		J3/P3-M		P/J10-L	J/P6-9			PXU14	
GND		J3/P3-N		P/J10-K	J/P6-				
-SIN PA	CJ2	J3/P3-P		P/J10-J	J/P6-7	YEL			
GND		J3/P3-R		P/J10-I	J/P6-				
		J3/P3-S		P/J10-H	J/P6-				
		J3/P3-T		P/J10-G	J/P6-6	ORN		PXU4	
+15V	CD2	J3/P3-U		P/J10-F	J/P6-3	WHT		PXU6	
LED CATHODE	CH1	J3/P3-V		P/J10-E	J/P6-4	BLU		PXU8	
-15V	CB2	J3/P3-W	P/J10-D	J/P6-1	BLK	PXU1			
GLASS XDR COM (GND)	CF1	J3/P3-X	P/J10-C	J/P6-	RED	PXU2			
+5V	CA2	J3/P3-Y	P/J10-B	J/P6-2					



SIGNAL NAME	CABLE CARD (CC) SLOT-1		CABLE NUMBER	R/W BOARD (RW) CABLE CONN-PIN	REMARKS
	BACK-PLANE PIN	CABLE CONN-PIN			
+15	DD2	J2/P2-A	② 2Φ COND R/W (GREY)	P2/J2-X	FOR R/W BOARD CONN LAYOUT SEE SHEET 5 FIG. 1
+15	DD2	J2/P2-B		P2/J2-W	
GND D		J2/P2-C		P2/J2-V	
GND D		J2/P2-D		P2/J2-U	
-5	DR2	J2/P2-E		P2/J2-T	
-5	DR2	J2/P2-F		P2/J2-S	
GND		J2/P2-H		P2/J2-R	
GND		J2/P2-J		P2/J2-P	
+5C	DA2	J2/P2-K		P2/J2-N	
+5C	DA2	J2/P2-L		P2/J2-M	
GND D		J2/P2-M		P2/J2-L	
GND D		J2/P2-N		P2/J2-K	
GND D		J2/P2-P		P2/J2-J	
GND D		J2/P2-R		P2/J2-H	
RD DATA 2 L	CU2	J2/P2-S		P2/J2-F	
GND D		J2/P2-T		P2/J2-E	
RD DATA 1 L	CU1	J2/P2-U		P2/J2-D	
GND D		J2/P2-V		P2/J2-C	
GND D		J2/P2-W		P2/J2-B	
GND D		J2/P2-X		P2/J2-A	

SIGNAL NAME	PHOTO TRANSDUCER WIRING				REMARKS
	PREAMP (PX)	WIRE COLOR	CABLE NUMBER	TRANSDUCER ASSEMBLY (TX)	
SIN X (E1)	PX-U5	YEL	④C1 6 WIRES (PART OF PHOTO TRANS ASSY)	TX-E1	SEE NOTE
-COS X (E2)	PX-U13	GRN		TX-E2	
LIM X (E3)	PX-U3	VIO		TX-E3	
PHOTO DIODE CATH (-15V)	PX-U11	BRN		TX-E5	
LED ANODE (+5V)	PX-U7	RED		TX-AN	
LED CATHODE	PX-U10	WHT		TX-CA	



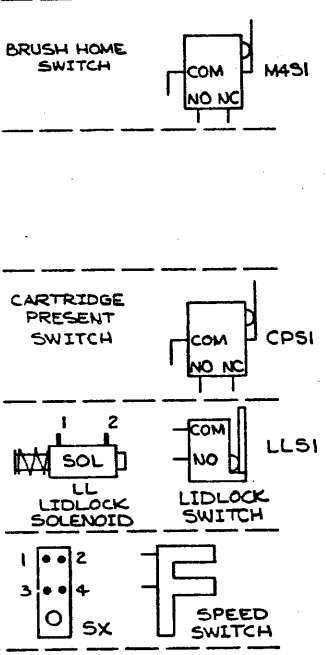
NOTE:
ON SOME RK07'S THE LIMPA CHANNEL HAS BEEN ELIMINATED AS NOT REQUIRED FOR RK07 THEREFORE THESE INTERCONNECTIONS WILL NOT EXIST

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CHK	CHANGE NO.	REV.

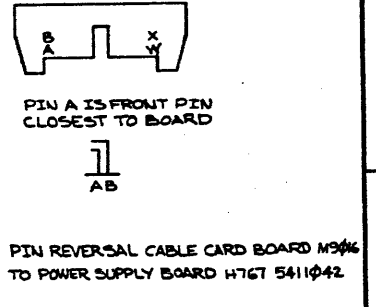
FOR SERIAL # 53380 AND HIGHER			
TITLE	SIZE CODE	NUMBER	REV.
RK07 SYSTEMS CABLING	DIC	RK07-0-3	A
SCALE	SHEET 8 OF 14	DIST.	

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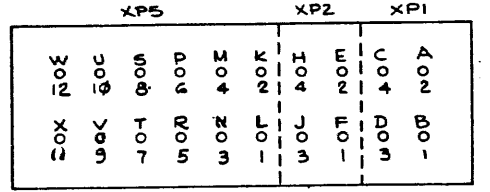
SIGNAL NAME	CABLE CARD (CN) SLOT-1		CABLE NUMBER	CONNECTOR TX-9 SEE LAYOUT BELOW		WIRE COLOR	CABLE NUMBER	TERMINAL	REMARKS		
	BACK-PLANE PIN	CABLE CONN. PIN		CONN.	CONN.						
BRUSH HOME SW L BRUSH HOME SW H GND	BN2 BP2 BM2	J5/P5-A J5/P5-B J5/P5-C J5/P5-D	5	P9/J9-X P9/J9-W P9/J9-V P9/J9-U	J5/P5-11 J5/P5-12 J5/P5-9 J5/P5-8	BLU YEL BLK	5A 3 COND BRUSH HOME SW	M4S1-NO M4S1-NC M4S1-COM	BRUSH HOME SWITCH 		
DR IN PLACE SOL L +25V DR IN PLACE L GND	BL2 BE2 BK2	J5/P5-E J5/P5-F J5/P5-H J5/P5-J		20 COND (GREY)	P9/J9-T P9/J9-S P9/J9-R P9/J9-P	J4/P4-7 J4/P4-8 J4/P4-5 J4/P4-6		NOT USED	USED		
CART PRES L GND	BJ2 BH2	J5/P5-K J5/P5-L J5/P5-M J5/P5-N			CHASSIS AREA SEE PAGE 5 FIG. 4	P9/J9-N P9/J9-M P9/J9-L P9/J9-K	J3/P5-3 J3/P5-4 J3/P5-1 J3/P5-2	VIO RED	5B 2 COND CART PRESENT	CPS1-NO CPS1-COM	CARTRIDGE PRESENT SWITCH
LID LOCKED L GND +25V LID LOCKED SOL L	BF2 BE2 BE1	J5/P5-D J5/P5-R J5/P5-S J5/P5-T				FOR CABLE BOARD LAYOUT	P9/J9-J P9/J9-H P9/J9-F P9/J9-E	J2/P2-3 J2/P2-4 J2/P2-1 J2/P2-2	BLU BLK VIO YEL	5C 4 COND LID LOCK	LLS1-COM LLS1-NO LLSOL-1 LLSOL-2
SPINDLE SPEED GND LED CATHODE LED ANODE (+5)	BC1 BB1 BA1	J5/P5-U J5/P5-V J5/P5-W J5/P5-X	SEE PAGE 5 FIG. 4				P9/J9-D P9/J9-C P9/J9-B P9/J9-A	J1/P1-3 J1/P1-4 J1/P1-2 J1/P1-1	BRN YEL BLK RED	5D 4 COND SPEED TRANS	SX-2 SX-1 SX-3 SX-4



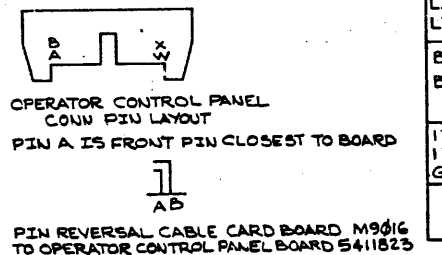
SIGNAL NAME	CABLE CARD (CN) SLOT 1		CABLE NUMBER	POWER SUPPLY ELECTRONICS BOARD (PSA1) CONN. PIN	REMARKS
	BLACK-PLANE PIN	CABLE CONN. PIN			
EMITTER TEST PT SPARE AC LOW L GND SPINDLE ON L EN BRUSHES L GND SPINDLE BRAKE L GND REMOTE SENSE C GND (ANALOG) CURRENT COMMAND GND REMOTE SENSE A GND (UNUSED) REMOTE SENSE B GND (UNUSED) DC LOW L GND	BUI BVI CEI CDI CCI CBI CAI CAI CAI CAI CAI BV2 BU2 BS2 BR2	J4/P4-A J4/P4-B J4/P4-C J4/P4-D J4/P4-E J4/P4-F J4/P4-G J4/P4-H J4/P4-I J4/P4-J J4/P4-K J4/P4-L J4/P4-M J4/P4-N J4/P4-P J4/P4-R J4/P4-S J4/P4-T J4/P4-U J4/P4-V J4/P4-W J4/P4-X	7 20 COND POWER SUPPLY SIGNAL (GREY)	A1-P2/J2-X A1-P2/J2-W A1-P2/J2-V A1-P2/J2-U A1-P2/J2-T A1-P2/J2-S A1-P2/J2-R A1-P2/J2-Q A1-P2/J2-P A1-P2/J2-O A1-P2/J2-N A1-P2/J2-M A1-P2/J2-L A1-P2/J2-K A1-P2/J2-J A1-P2/J2-I A1-P2/J2-H A1-P2/J2-G A1-P2/J2-F A1-P2/J2-E A1-P2/J2-D A1-P2/J2-C A1-P2/J2-B A1-P2/J2-A	SEE PAGE 5 FIG. 4 FOR CABLE CARD CONN PIN LAYOUT FIG. 3 FOR POWER SUPPLY ELECT BOARD(A1) CONN LAYOUT



SIGNAL NAME	CABLE CARD (CN) SLOT-1		CABLE NUMBER	OPERATOR CONTROL PANEL (CP) CONN. PIN	REMARKS
	BACK-PLANE PIN	CABLE CONN. PIN			
U0 L U1 L U2 L RUN (I) H WRL (I) L STOPPED LITE H QUAL L GND RUN SW L GND +5 +5 READY (Q) H FAULT L SW EN B L SW EN A H WR PROT SW L UNUSED DR SEL A DR SEL B	AR2 AS2 AP2 AU2 AN2 AV2 AM2 AL2 AA2 AA2 AK2 AB1 AJ2 AC1 AH2 AF2 AE2	J6/P6-A J6/P6-B J6/P6-C J6/P6-D J6/P6-E J6/P6-F J6/P6-G J6/P6-H J6/P6-I J6/P6-J J6/P6-K J6/P6-L J6/P6-M J6/P6-N J6/P6-O J6/P6-P J6/P6-Q J6/P6-R J6/P6-S J6/P6-T J6/P6-U J6/P6-V J6/P6-W J6/P6-X	6 20 COND OPER CONTROL PANEL (GREY)	P1/J1-X P1/J1-W P1/J1-V P1/J1-U P1/J1-T P1/J1-S P1/J1-R P1/J1-Q P1/J1-P P1/J1-N P1/J1-M P1/J1-L P1/J1-K P1/J1-J P1/J1-I P1/J1-H P1/J1-G P1/J1-F P1/J1-E P1/J1-D P1/J1-C P1/J1-B P1/J1-A	SEE PAGE 5 FIG. 4 FOR CABLE CARD CONN LAYOUT

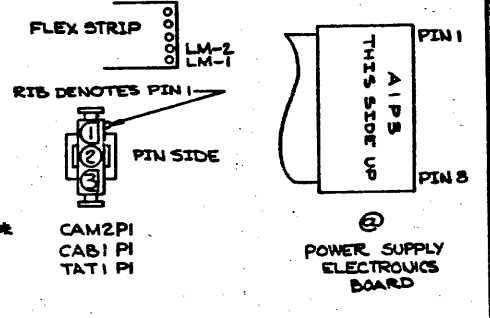


AS VIEWED FROM FRONT AND TOP OF DRIVE THE 20 PIN CABLE ON TOP THE 3 XP CABLES ON BOTTOM



SIGNAL NAME	POWER SUPPLY (PS)	WIRE COLOR	CABLE NUMBER	CHASSIS AREA (CA) TRANSFORMER AREA (TA)	WIRE COLOR	CABLE NUMBER	TERMINAL	REMARKS
LIN MTR-RET LIN MTR-PWR	A1J3/P3-1 A1J3/P3-2	RED RED	9	CAM2J1/P1-3 CAM2J1/P1-1	WHT BRN	14 3 WIRE	LM-2 LM-1	LINEAR MOTOR
BATTERY + BATTERY -	A1J3/P3-3 A1J3/P3-4	BRN BLK		CAB1J1/P1-1 CAB1J1/P1-3	BRN BLK	15 ASSY		BI-POS BI-NEG
13V RMS 18V RMS GND	A1J3/P3-6 A1J3/P3-7 A1J3/P3-8	YEL YEL BLK	SEE NOTE	TAT1J1/P1-1 TAT1J1/P1-2 TAT1J1/P1-3	YEL YEL YEL/BLK	12C 3 WIRE	ALM2S1-NC-2 TRANSFORMER	HOMESWNC
				CAB1J1-2	GRN	JUMPER		CAM2J1-1

NOTE. SEE PAGE 5 FIG. 3 FOR PWR SUPPLY ELECTRONIC BOARD A1 CONN LAYOUT, FIG 6 FOR CA AREA LAYOUT.



* THIS WIRE PHYSICALLY PART OF CABLE 14

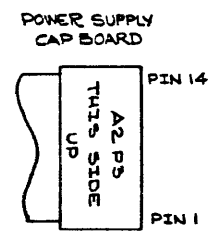
CHK	CHANGE NO.	REV.

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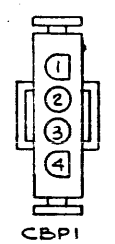
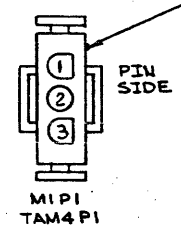
SIGNAL NAME	CONN	WIRE COLOR	CABLE NUMBER	CONN	WIRE COLOR	CABLE NUMBER	CONN	CABLE NUMBER	WIRE COLOR	REMARKS	
SPINDLE BRAKE PS (10V)	A2J1/P1-3	RED		SBT2 P1						SEE SPINDLE BRAKE P.S. SCHEMATIC CS	
SPINDLE BRAKE PS (NEUT)	A2J1/P1-4	WHT		S0DC-1							
12V BRAKE VOLT	A2J1/P1-9	BLU		S0DC-4							
BRUSH MTR (HOT) (110V)	A2J1/P1-1	RED	(10)	TBJ1/P1-2	RED		M4J1/P1-1		(11A)	BLK	TO BRUSH MOTOR
BRUSH MTR (LOW) (NEUT)	A2J1/P1-2	WHT		TBJ1/P1-1	WHT		M4J1/P1-3			BLK	
SPINDLE MTR (LOW)	A2J1/P1-5	WHT	SEE PAGES FIG. 2 FOR PWR SUPPLY CAP BOARD A2 CONN LAYOUT	TBJ1/P1-3	WHT	(11)	M3J1/P1-2		(11B)	RED	TO SPINDLE MOTOR
SPINDLE MTR (HOT)	A2J1/P1-6	RED		TBJ1/P1-4	RED		M3J1/P1-1			BLU	
110VAC (HOT)	A2J1/P1-7	RED		TBJ1/P1-6	RED		CBJ1/P1-1				SEE PAGE 6 FOR CB LAYOUT
110VAC (NEUT)	A2J1/P1-8	WHT		TBJ1/P1-5	WHT		CBJ1/P1-2				
SPINDLE MTR CAP-N	M3C1-2	WHT	(11C)	TAM3J1-2							
SPINDLE MTR CAP-M	M3C1-1	BLK		TAM3J1-3							
GND	CHASSIS	GRN/YEL	(11)	TAM3J1-4							SP MTR
GND	M3J1-4	GRN/YEL	SEE PAGES FIG. 5 FOR TA CONN LAYOUT	M4J1-4							BRK MTR
GND	M4J1-4	BRN/YEL		M1J1-4							BLO MTR
110VAC (HOT)	CBJ1/P1-3	RED		M1J1/P1-1	RED						BLOWER MOTOR
110VAC (NEUT)	CBJ1/P1-4	WHT		M1J1/P1-3	WHT						

SIGNAL NAME	SOURCE	WIRE COLOR	CABLE NUMBER	TRANSFORMER	REMARKS
	PS				
+10V COMMON	A2J3/P3-1	BLU/WHT			
+10V COMMON	A2J3/P3-2	BLU/WHT			
+25V COMMON	A2J3/P3-3	GRN/WHT			
+25V COMMON	A2J3/P3-4	GRN/WHT			
37V RMS	A2J3/P3-7	GRN/BLK	(12A)	SECONDARY	SEE PAGE 5 FIG. 2 FOR POWER SUPPLY ELECT BOARD (A2) CONN LAYOUT
37V RMS	A2J3/P3-8	GRN/BLK			
37V RMS	A2J3/P3-9	GRN			
37V RMS	A2J3/P3-10	GRN			
13V RMS	A2J3/P3-11	BLU/BLK			
13V RMS	A2J3/P3-12	BLU/BLK			
13V RMS	A2J3/P3-13	BLU			
13V RMS	A2J3/P3-14	BLU			
110VAC (HOT)	TI J1/P1-1	BRN		PRIMARY	CB IS CIRCUIT BREAKER ASSY SEE PAGE
110VAC (NEUT)	TI J1/P1-2	BRN/WHT	(12B)		
110VAC (HOT)	TI J1/P1-3	BLK			
110VAC (NEUT)	TI J1/P1-4	BLK/WHT			

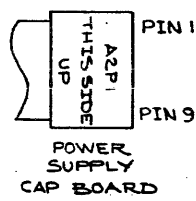
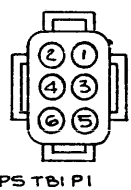


NOTE:
1. TWO RED WIRES CONNECT TRANSFORMER T1 AND TRANSFORMER CAPACITOR TIC1
2. WIRING SAME 50HZ OR 60HZ TRANSFORMER

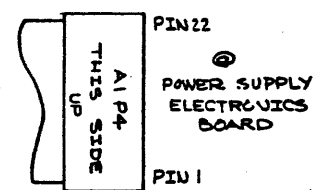
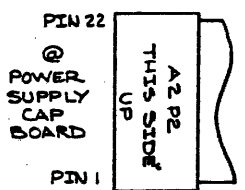
RIB DENOTES PIN 1



ON CIRCUIT BREAKER ASSY AND TA M3 P1



SIGNAL NAME	POWER SUPPLY PS	WIRE COLOR	CABLE NUMBER	POWER SUPPLY PS	REMARKS
+10V	A1P4/J4-1	YEL		A2J2/P2-1	
+10V	A1P4/J4-2	YEL		A2J2/P2-2	
+10V	A1P4/J4-3	YEL		A2J2/P2-3	
+10V	A1P4/J4-4	YEL	(13)	A2J2/P2-4	SEE PAGE 5 FIG. 2 FOR P.S. CAP BOARD (A2) CONN LAYOUT
BATTERY	A1P4/J4-6	BRN		A2J2/P2-6	
LINEAR MOTOR PWR	A1P4/J4-7	VIO		A2J2/P2-7	
LINEAR MTR DRIVER	A1P4/J4-8	GRY		A2J2/P2-8	
-10V	A1P4/J4-9	BRN		A2J2/P2-9	
-25V	A1P4/J4-10	GRY		A2J2/P2-10	
-25V	A1P4/J4-11	GRY		A2J2/P2-11	
+25V	A1P4/J4-12	VIO		A2J2/P2-12	FIG. 3 FOR P.S. ELECT BOARD (A1) CONN LAYOUT
+25V	A1P4/J4-13	VIO		A2J2/P2-13	
GND	A1P4/J4-16	BLK		A2J2/P2-16	
GND	A1P4/J4-17	BLK		A2J2/P2-17	
GND	A1P4/J4-18	BLK		A2J2/P2-18	
GND	A1P4/J4-19	BLK		A2J2/P2-19	
SPINDLE BRAKE L	A1P4/J4-20	RED		A2J2/P2-20	
EN BRUSHES L	A1P4/J4-21	RED		A2J2/P2-21	
SPINDLE ON L	A1P4/J4-22	RED		A2J2/P2-22	



NOTE:
PINS 5, 14, AND 15 UNUSED

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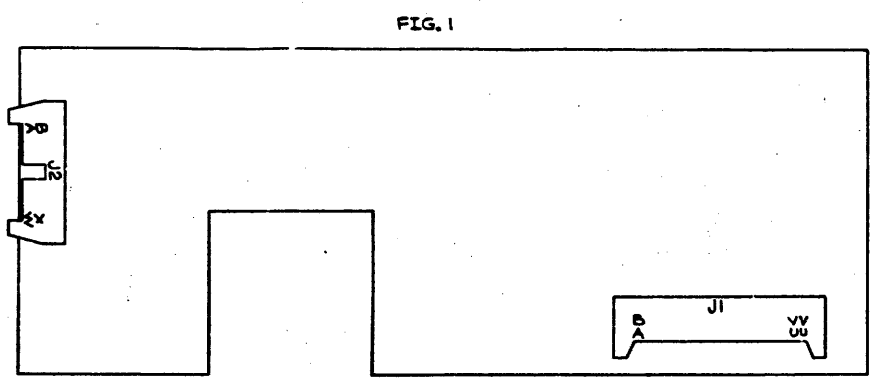


FIG. 1
R/W BOARD CONNECTOR LABELING
NOTE: PIN A FRONT PIN, CLOSEST TO BOARD

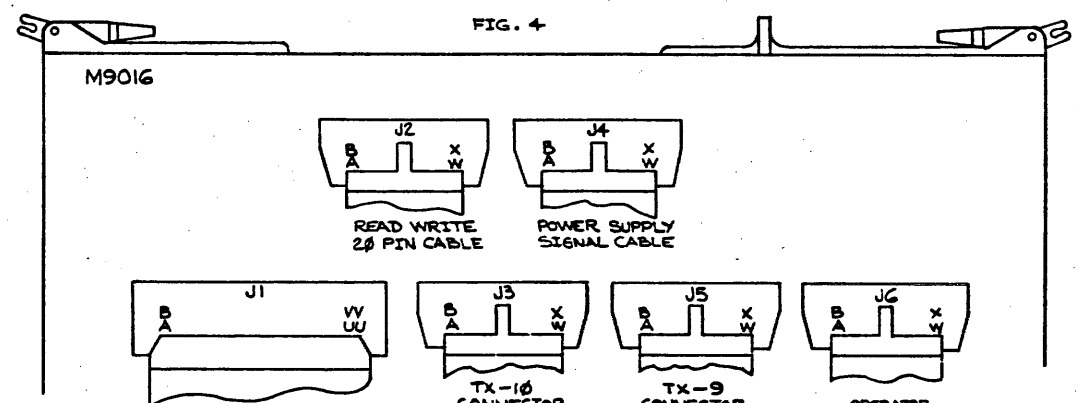


FIG. 4
M9016
NOTE: PIN A FRONT PIN, CLOSEST TO BOARD

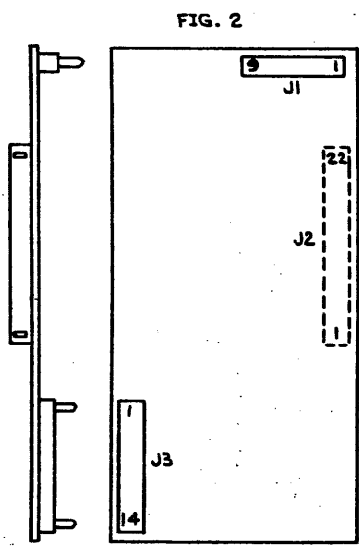


FIG. 2
POWER SUPPLY CAP BOARD A2

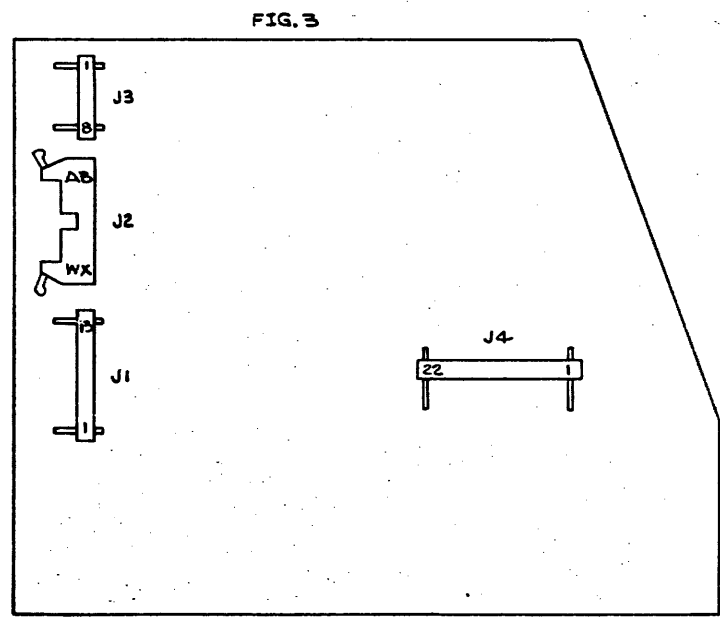


FIG. 3
HTG7 POWER SUPPLY BOARD A1

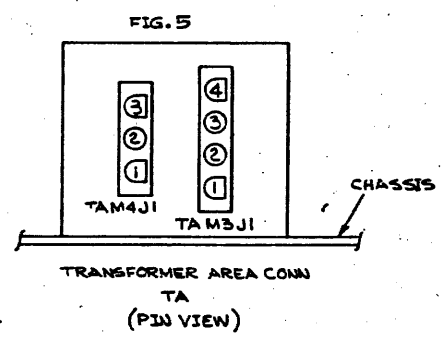


FIG. 5
TRANSFORMER AREA CONN TA (PIN VIEW)

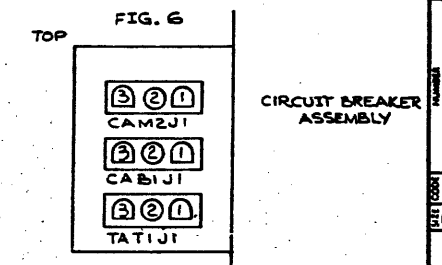


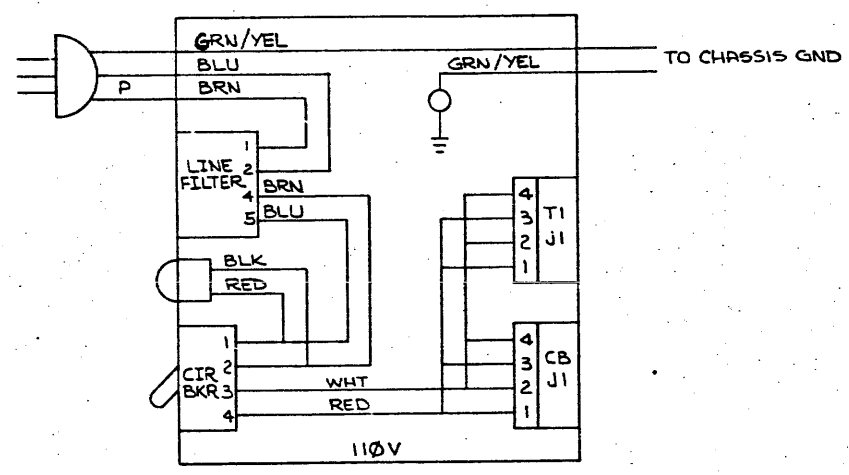
FIG. 6
CHASSIS AREA CONN CA (PIN VIEW)

REVISIONS		
CHK	CHANGE NO.	REV.

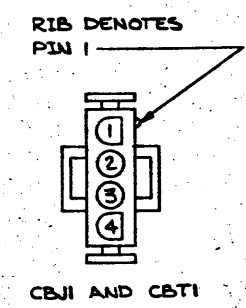
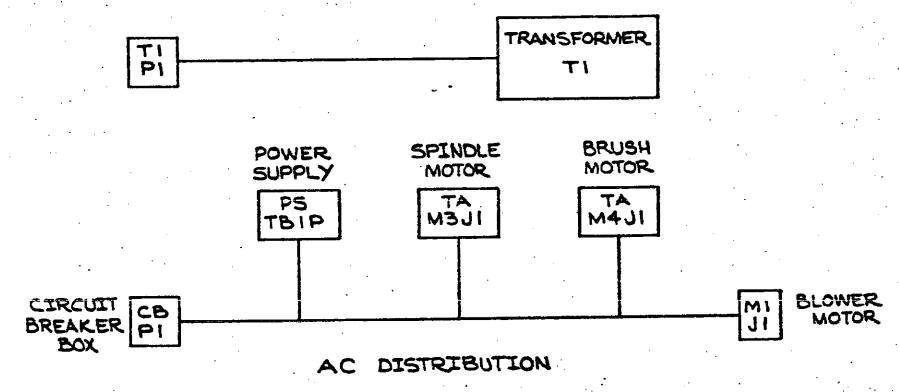
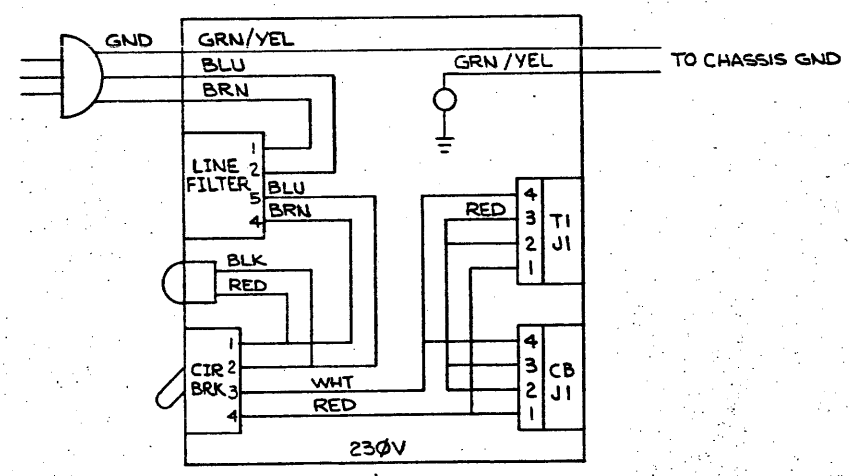
TITLE		SIZE CODE	NUMBER	REV.
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SCALE		SHEET	OF	DIST.
		11	OF 14	

FOR SERIAL # 53300 AND HIGHER

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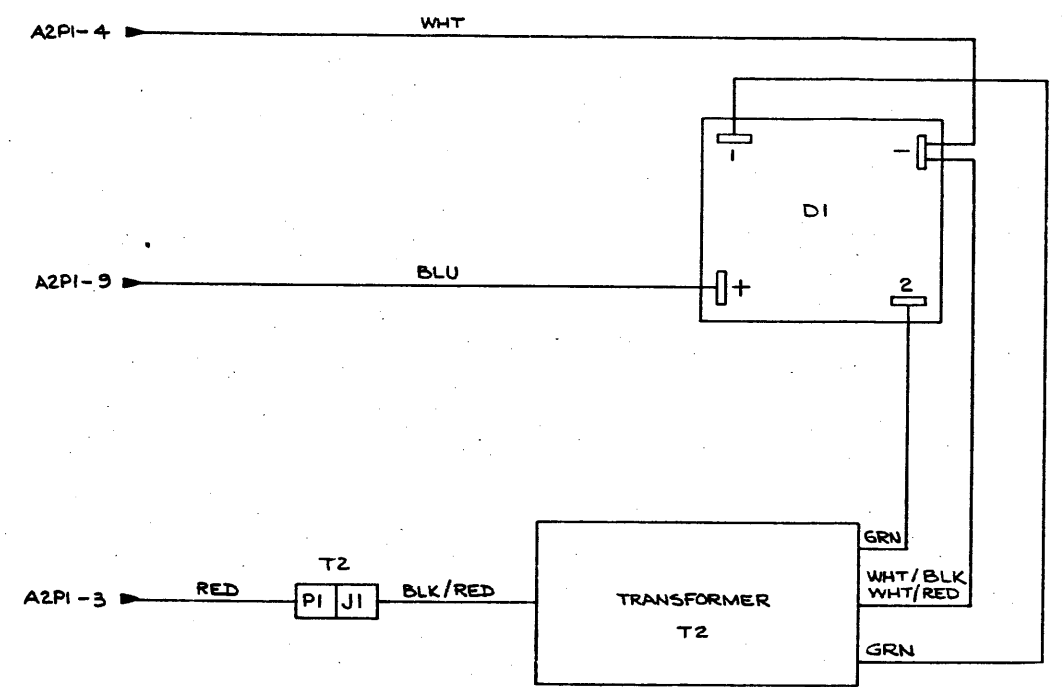
CIRCUIT BREAKER ASSEMBLY



REVISIONS		
CHK	CHANGE NO.	REV.

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A2PI IS ON CAP BOARD



SPINDLE BRAKE
POWER SUPPLY
PART OF HT67-A-0 POWER SUPPLY

REVISIONS		
CHK	CHANGE NO.	REV.

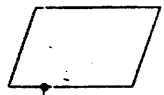
FOR SERIAL *5330 AND HIGHER

TITLE	SIZE CODE	NUMBER	REV.
RK07 SYSTEMS CABLING	DIC	RK07-0-3	A
SCALE	SHEET 13 OF 14	DIST.	

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BLOWER

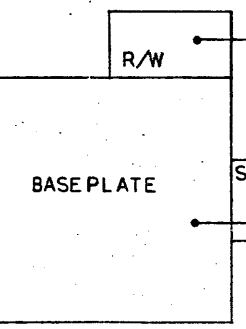
SPINDLE MOTOR



CONN

CHASSIS (NUT)

POWER SUPPLY



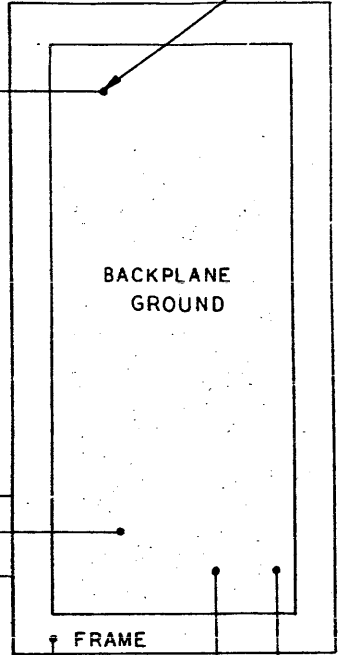
BASEPLATE

SERVO PRE AMP

R/W

D.C. GROUNDS A,B,C,D

GROUND RETURNS FOR BASEPLATE & CHASSIS DEVICES ARE THROUGH FLAT CABLES VIA TRANSITION BOARD TO CABLE BOARD



BACKPLANE GROUND

FRAME

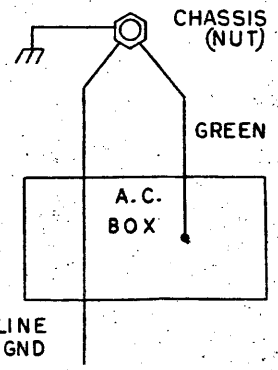
ON CABLE BOARD

ONLY D.C. GROUND FOR SYSTEM

3 WIRES

SHIELDED WIRE

ONLY D.C. GROUND FOR BASEPLATE



CHASSIS (NUT)

GREEN

A.C. BOX

LINE GND

REVISIONS		
CHK	CHANGE NO.	REV.

RK06/7 SYSTEM GROUND FOR ALL SER.* DRIVE

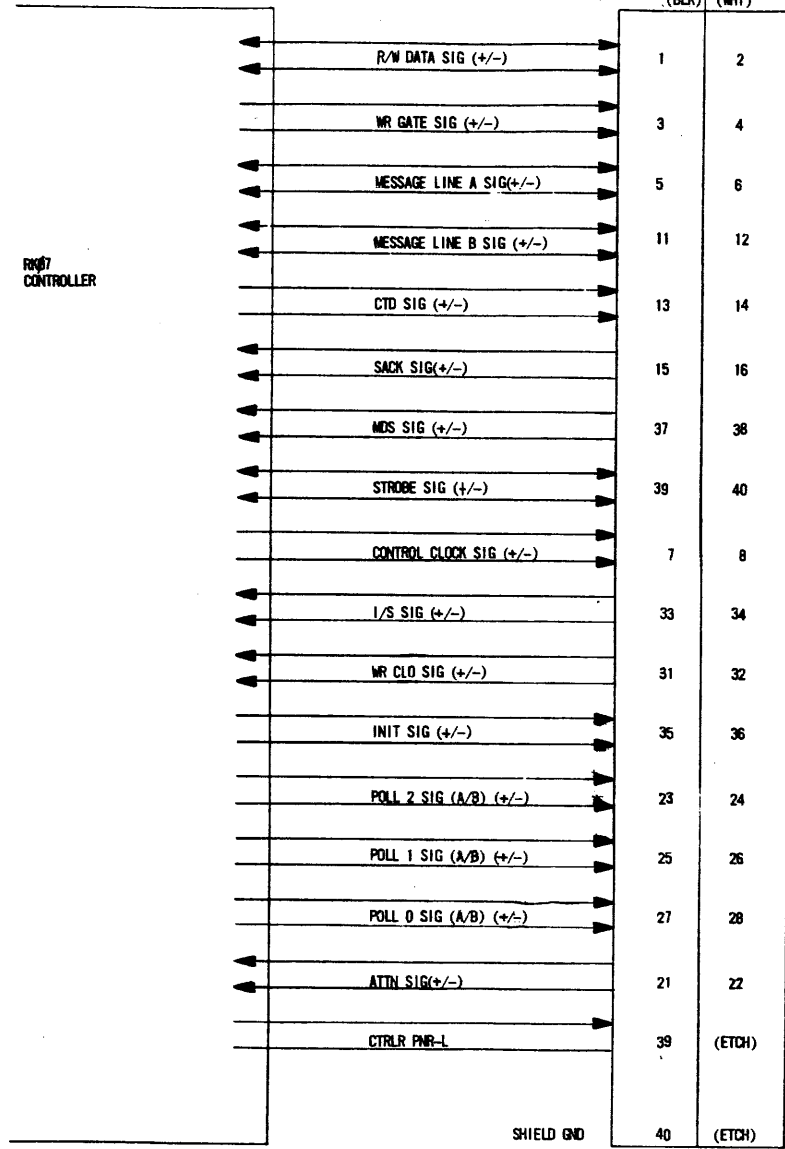
TITLE	RK06/7 SYSTEM CABLING	SIZE CODE	DIC	NUMBER	RK07-0-3	REV.	A
SCALE		SHEET	14	OF	14	DIST.	

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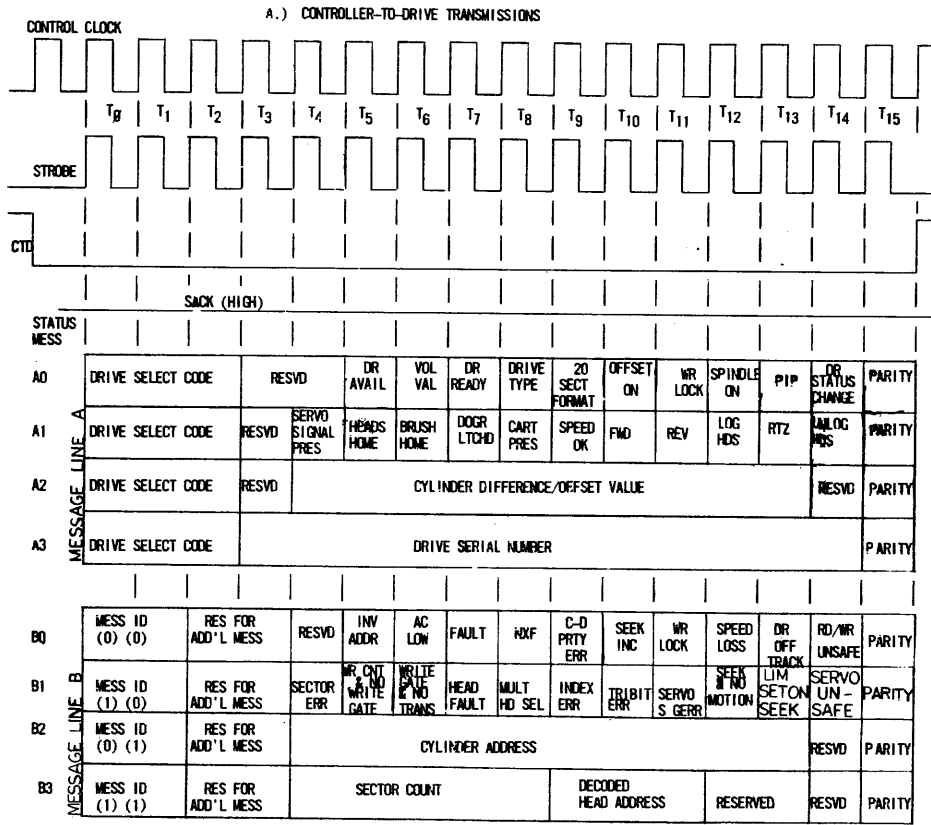
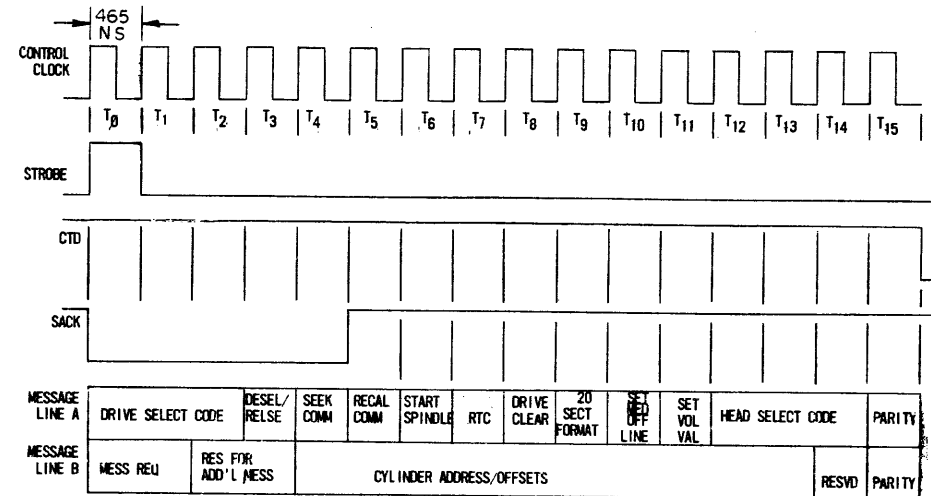
REV. 2
D I D R K 0 7 - 0 - 9

I/O CONNECTOR PINS

J1, J2 A IN/OUT
J3, J4 B IN/OUT
(BLK) (WHT)



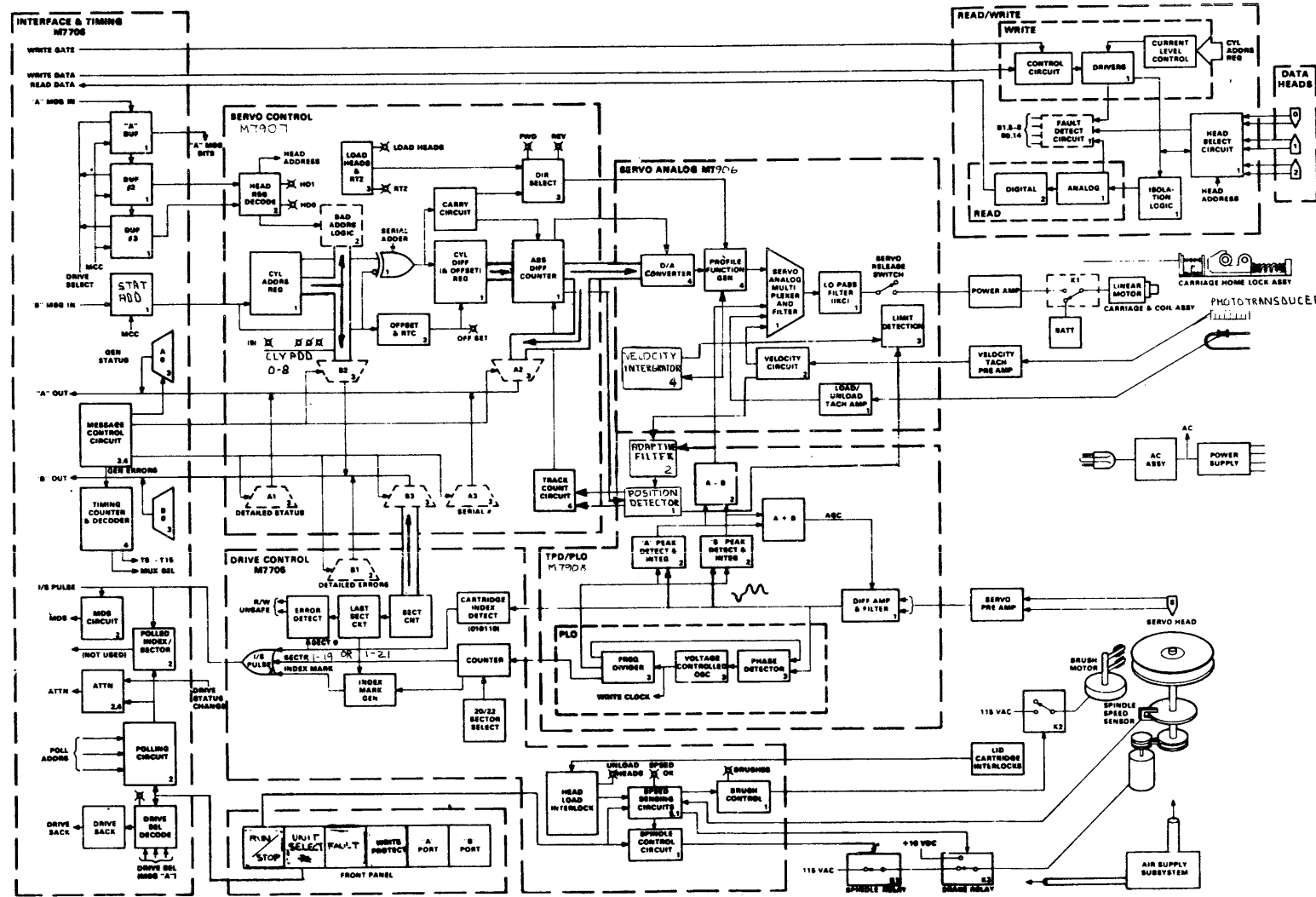
NOTE:
1. DUAL LINES INDICATE SIGNALS ARE DIFFERENTIAL PAIRS.
2. ARROWS INDICATE SIGNAL DIRECTIONS.



REV.	
CHG	
CHK	
REVISEMENTS	
CHANGE NO.	

DRN: <i>[Signature]</i>	1/8/78	FIRST USED ON	RK07	digital
CHK'D: <i>[Signature]</i>	1/9/78	TITLE	INTERFACING TIMING & STATUS	
ENG: <i>[Signature]</i>	11/24/78	PROJ. ENG:	<i>[Signature]</i>	
PROD: <i>[Signature]</i>	1/30/78	NEXT HIGHER ASSY.		
B-DD-RK07-0	SIZE CODE	NUMBER	REV.	
SCALE	D	D I D R K 0 7 - 0 - 9		
SHEET	OF	DIST.		

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D

C

B

A

D

C

B

A

REV	CHANGE NO	REVISIONS
CHK		

REV
NUMBER
RK07-0-10
C BD
SIZE CODE

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RK07		PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES	DRN. <i>John Nagle</i>	DATE 9 JAN 78	digital EQUIPMENT CORPORATION MAYFIELD, MASSACHUSETTS	
TOLERANCES	CHKD. <i>John Nagle</i>	DATE 12 JAN 78		
DECIMALS	ENG <i>John Nagle</i>	DATE 12 JAN 78	TITLE FUNCTIONAL BLOCK DIAGRAM	
ANGLES	PROL ENG <i>J. E. Lawson</i>	DATE 13 JAN 78		
.xxx = .005 .xx = .02 .x = .1	PROB <i>J. E. Lawson</i>	DATE 13 JAN 78		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ∇			MATERIAL	
			NEXT HIGHER ASSY.	
			B-DD-RK07-0	SIZE CODE
			C BD	NUMBER
			RK07-0-10	REV.
			SCALE	
			SHEET 1 OF 1	
			DIST.	

DEC FORM NO
DRL

4

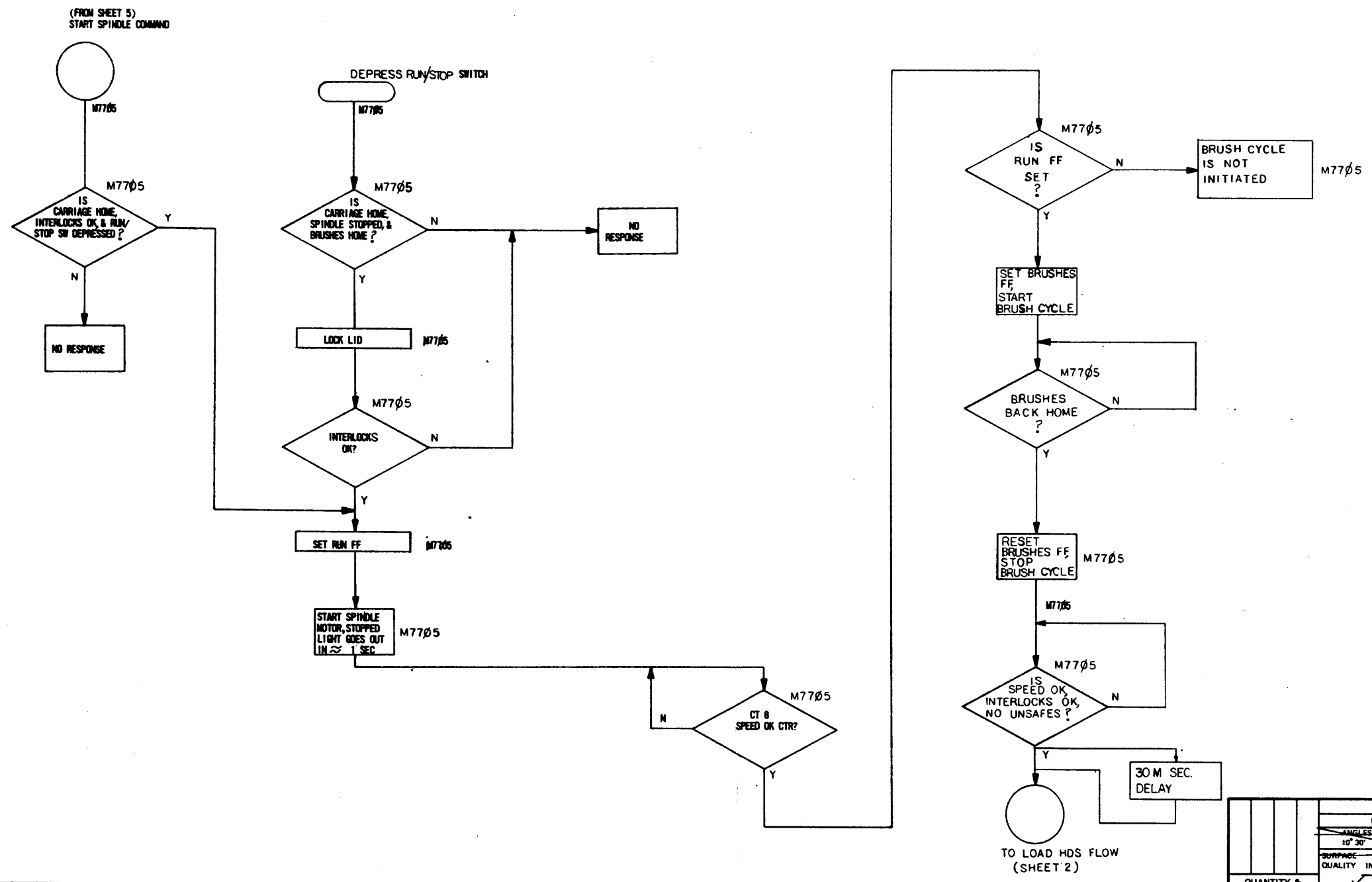
3

2

1

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NOTE:
 * FOR RK07 ONLY.
 ** FOR RK07:
 M7707 IS REPLACED WITH M7907
 M7729 IS REPLACED WITH M7906

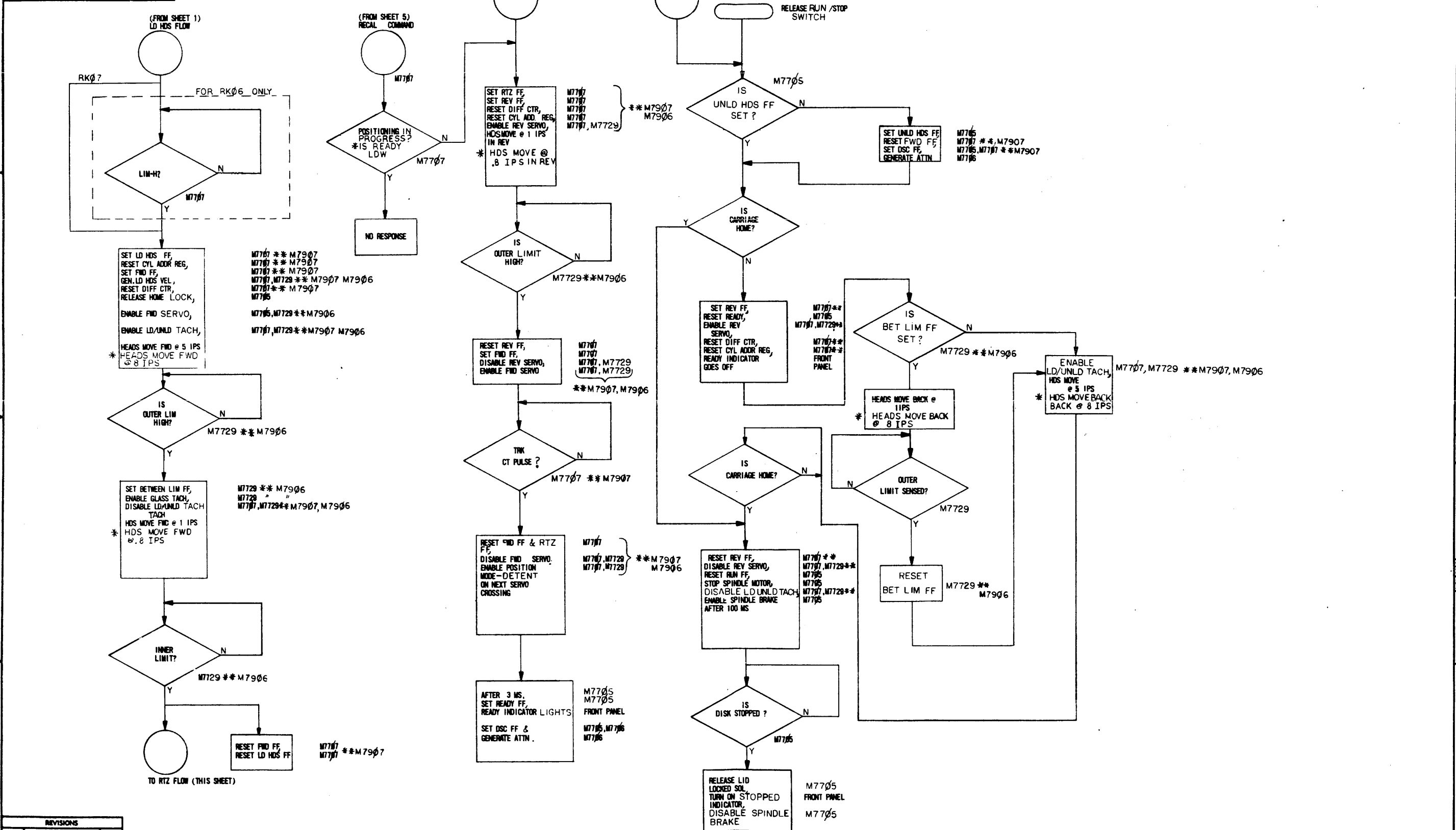


REVISIONS
 CHANGE NO. REV.
 1
 2

DESCRIPTION		DWG./PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
ANGLES	CLASS OF ACCURACY	NOMINAL DIMENSION RANGE INCHES	
±0° 30'	(CHECK ONE)	OVER 0 TO 4.0	OVER 4.0 TO 12.0
		OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
QUALITY IN	MEDIUM	±.004	±.008
	PREFERRED	±.012	±.016
		±.024	±.04
		±.08	±.1
THIRD ANGLE PROJECTION	DRN. <i>[Signature]</i> 15 Dec 77	FIRST USED ON	
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D <i>[Signature]</i> 27 Jan 78	RK06	
DO NOT SCALE DWG	ENG. <i>[Signature]</i> 12 Jan 78	TITLE	
	PROD. <i>[Signature]</i> 15 Jan 78	RK06/7	
		FLOW CHART	
MATERIAL	B-DD-RK07-0	SIZE	CODE
FINISH	SCALE	D	FD RK06/7-0-2
	SHEET 1 OF 7	DIST.	REV.

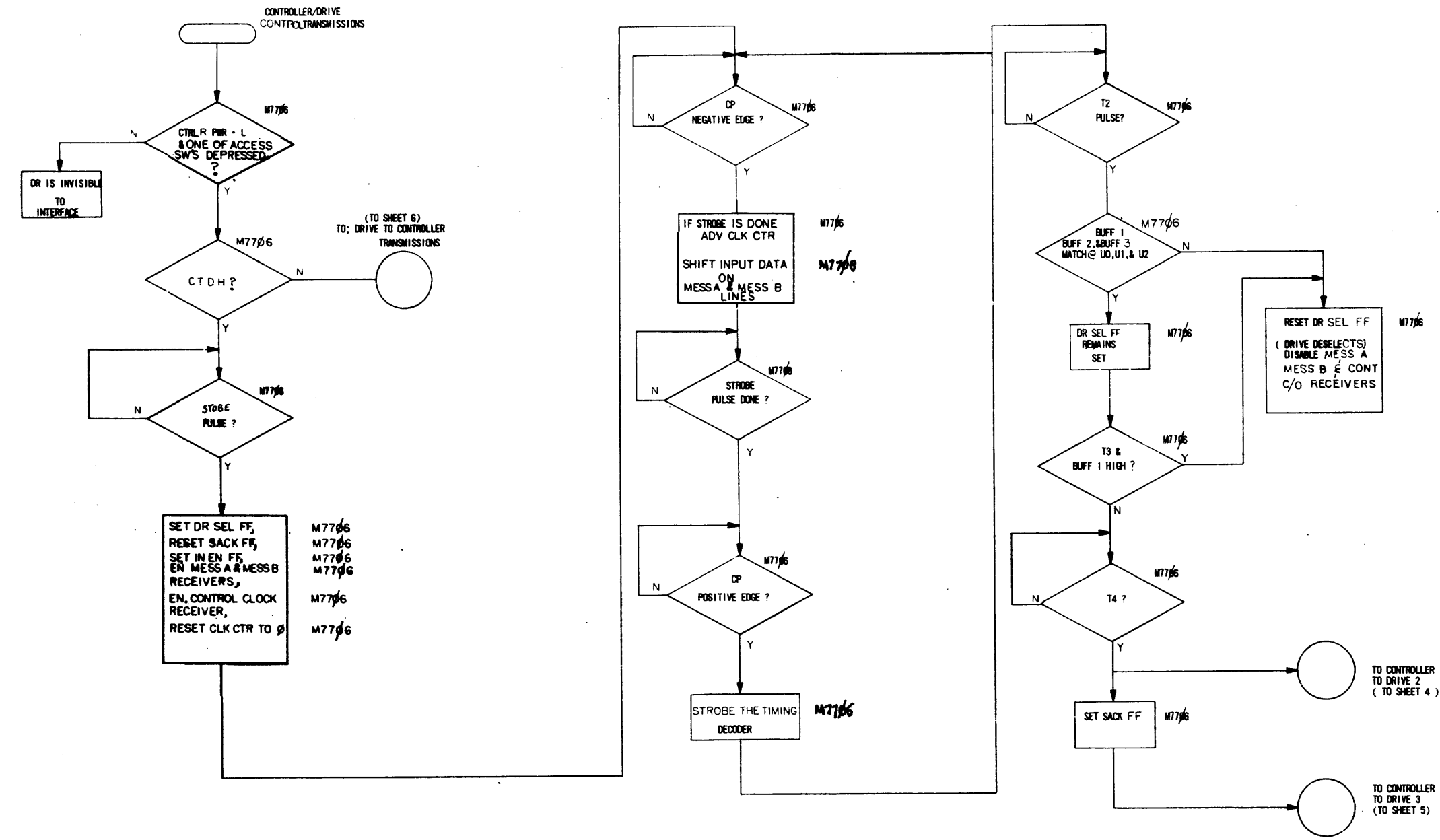
REV. NO. 1
 SIZE CODE D
 NUMBER FD RK06/7-0-2

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REVISIONS		
CHK	CHANGE NO.	REV.

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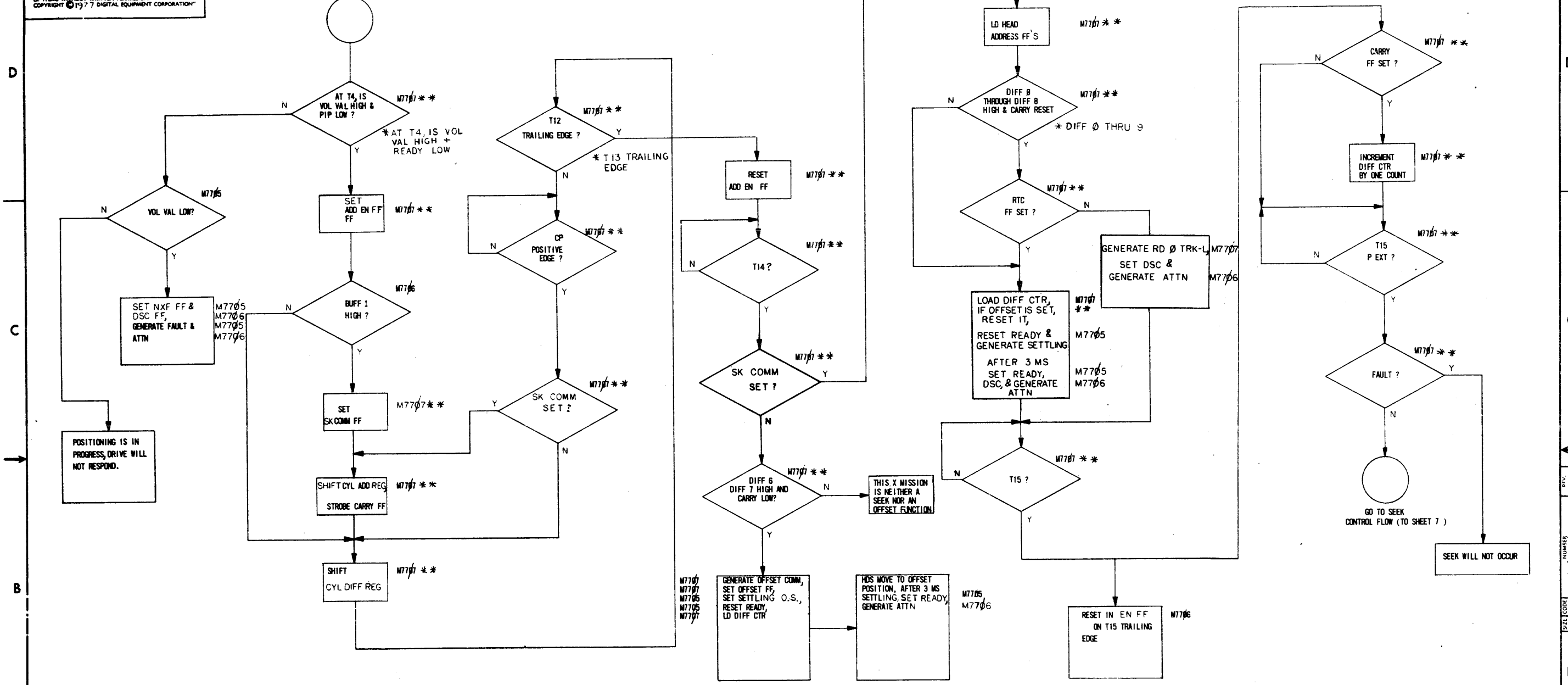


REVISIONS		
CHK	CHANGE NO.	REV.

REV. A A B B A

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CONTROLLER TO DRIVE (SEEK/OFFSET COMMAND FLOW)
(FROM SHEET 3)

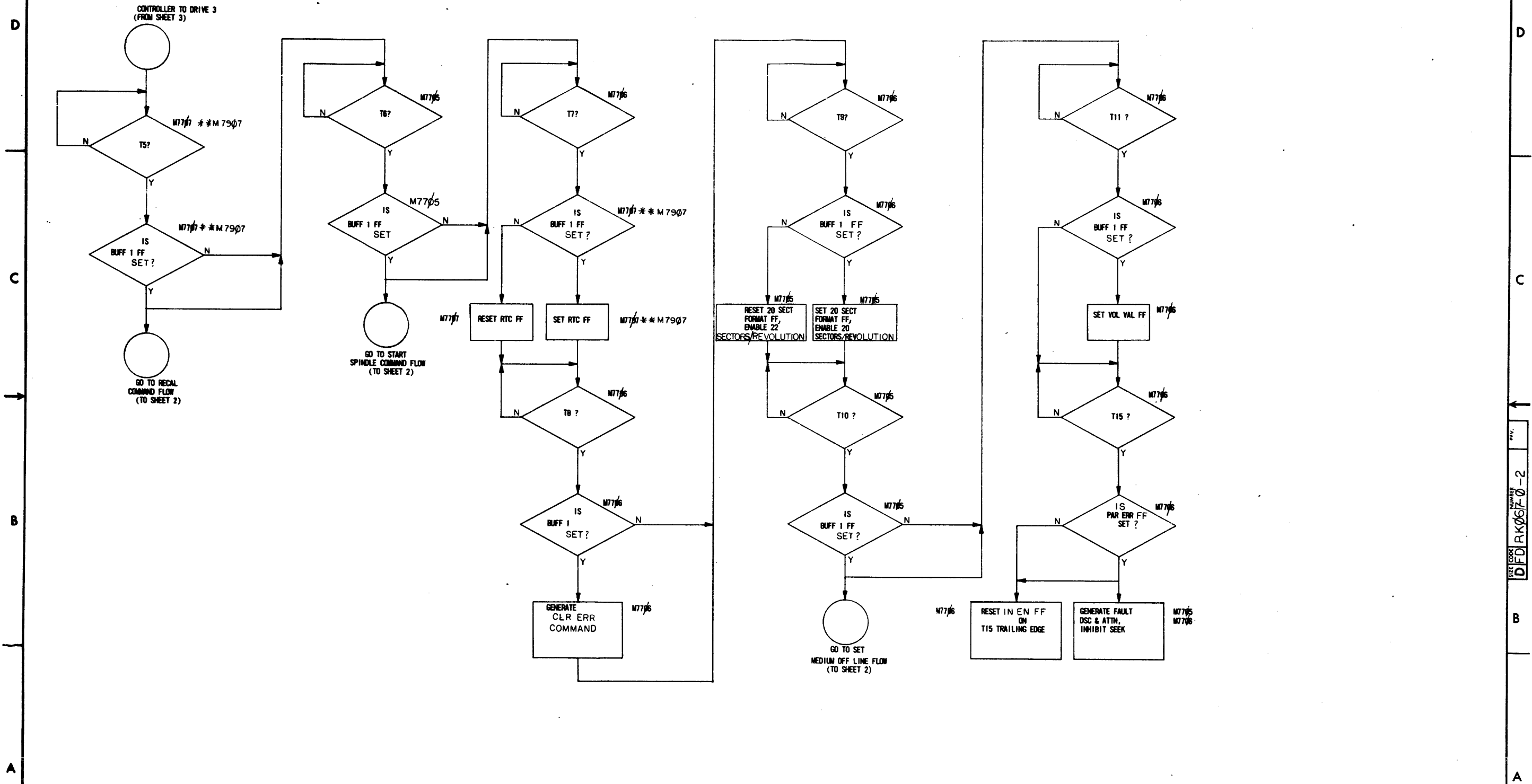


NOTE: ** M7907 FOR RK07

REVISIONS		
CHK	CHANGE NO.	REV.

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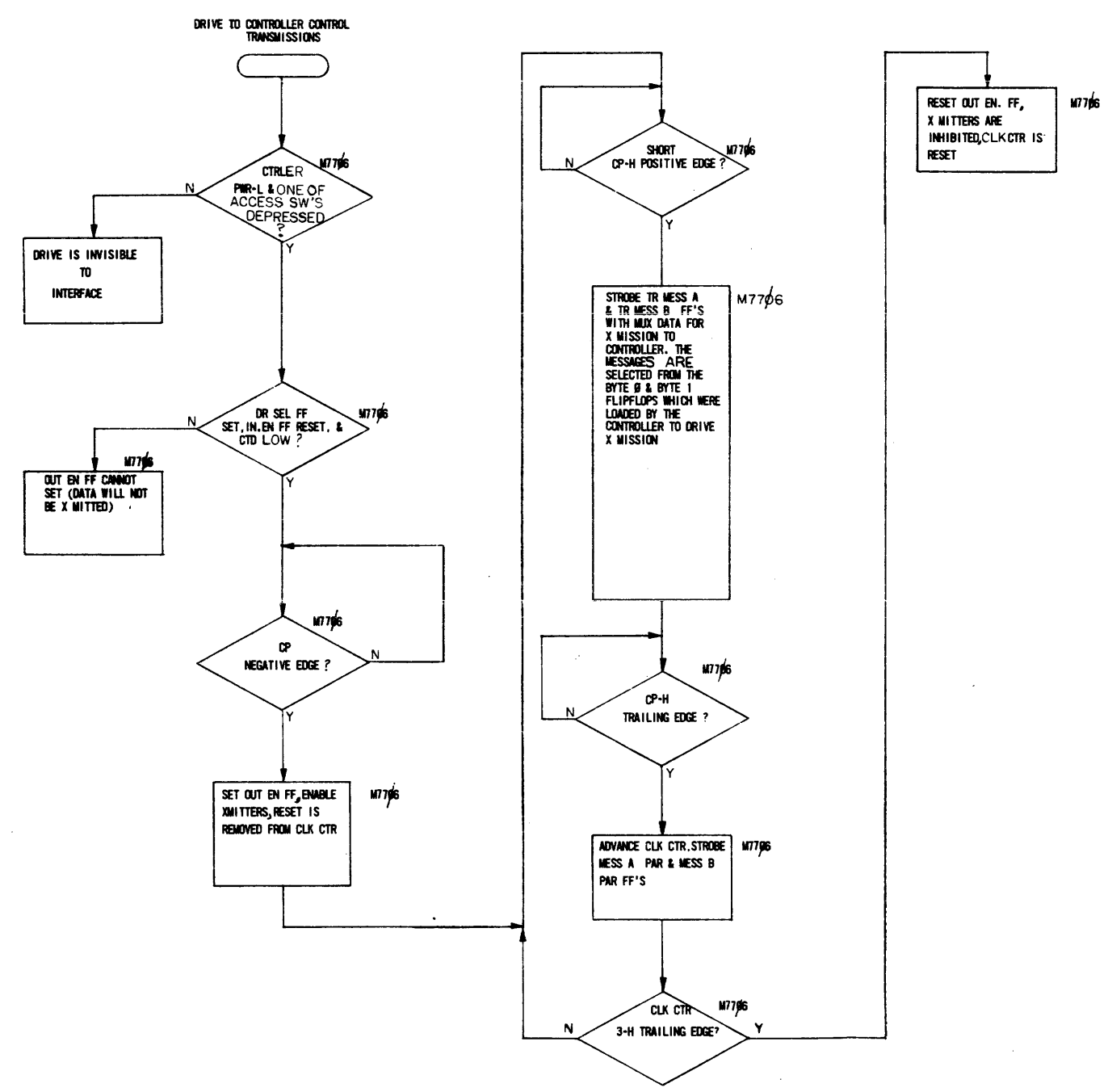
REV. 2
 SIZE CODE D
 NUMBER RK067-0-2



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE
 RK06/7 FLOW CHART
 SCALE ++ SHEET 5 OF 7
 SIZE CODE D FD
 NUMBER RK067-0-2
 REV.

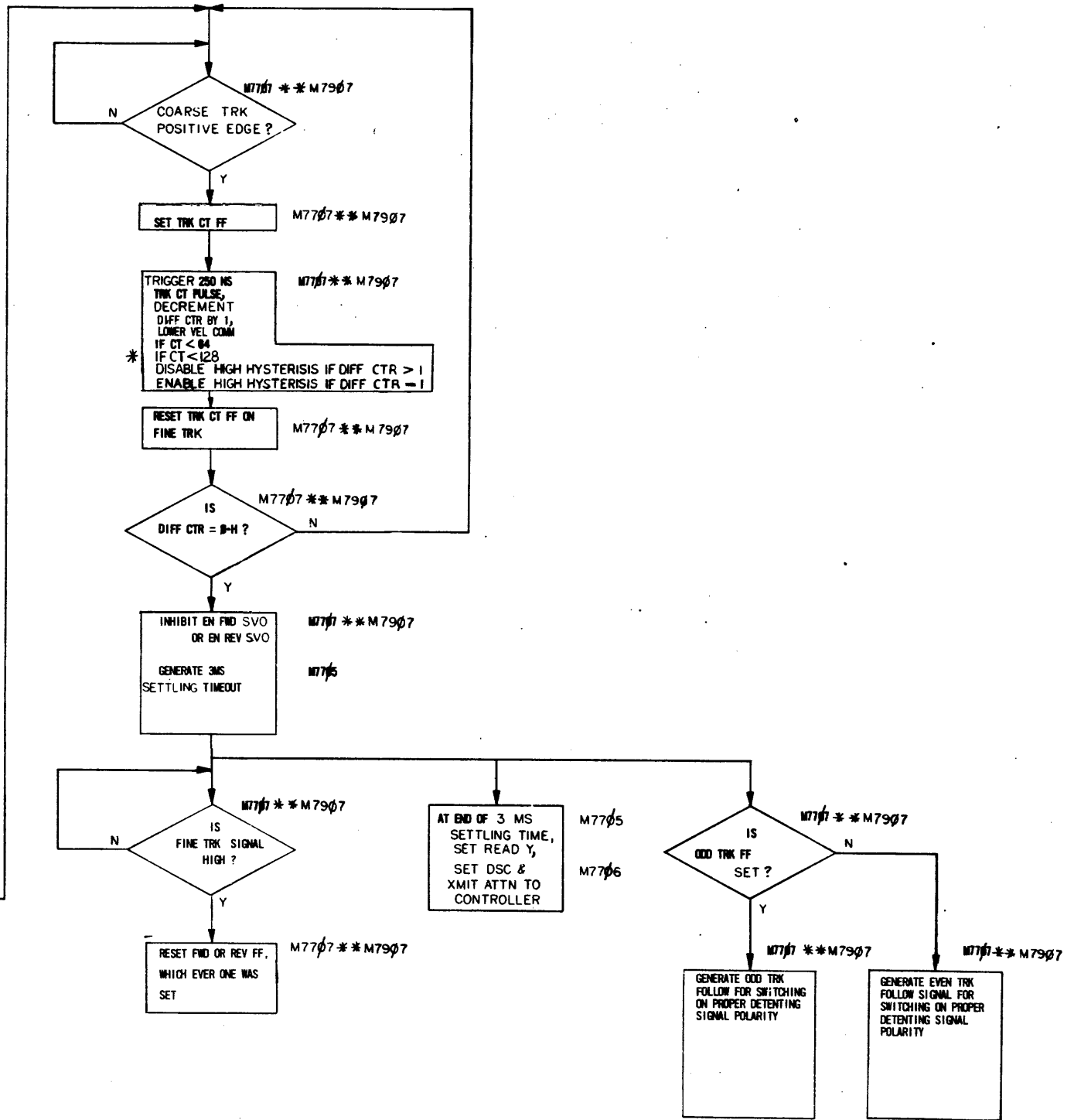
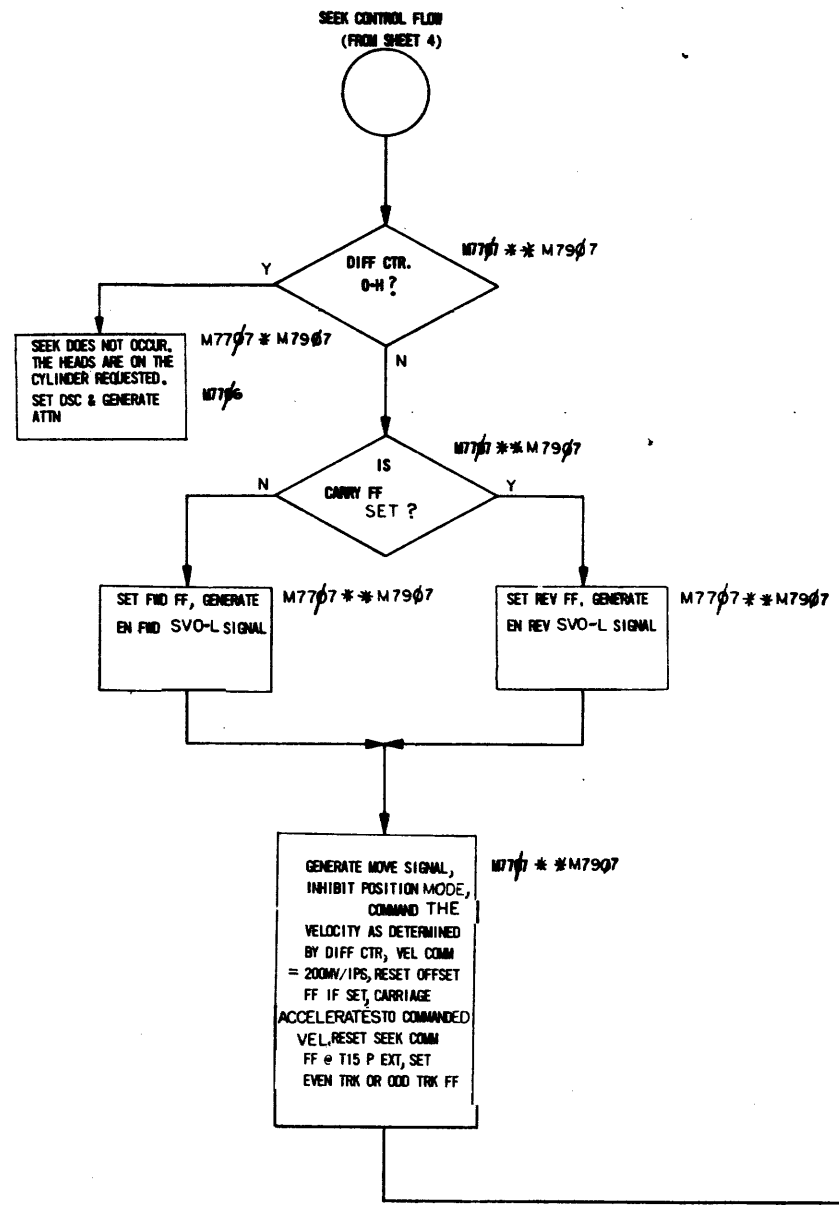
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REVISIONS		
CHK	CHANGE NO.	REV.

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REV. 2 DFD RK06/7-0-2

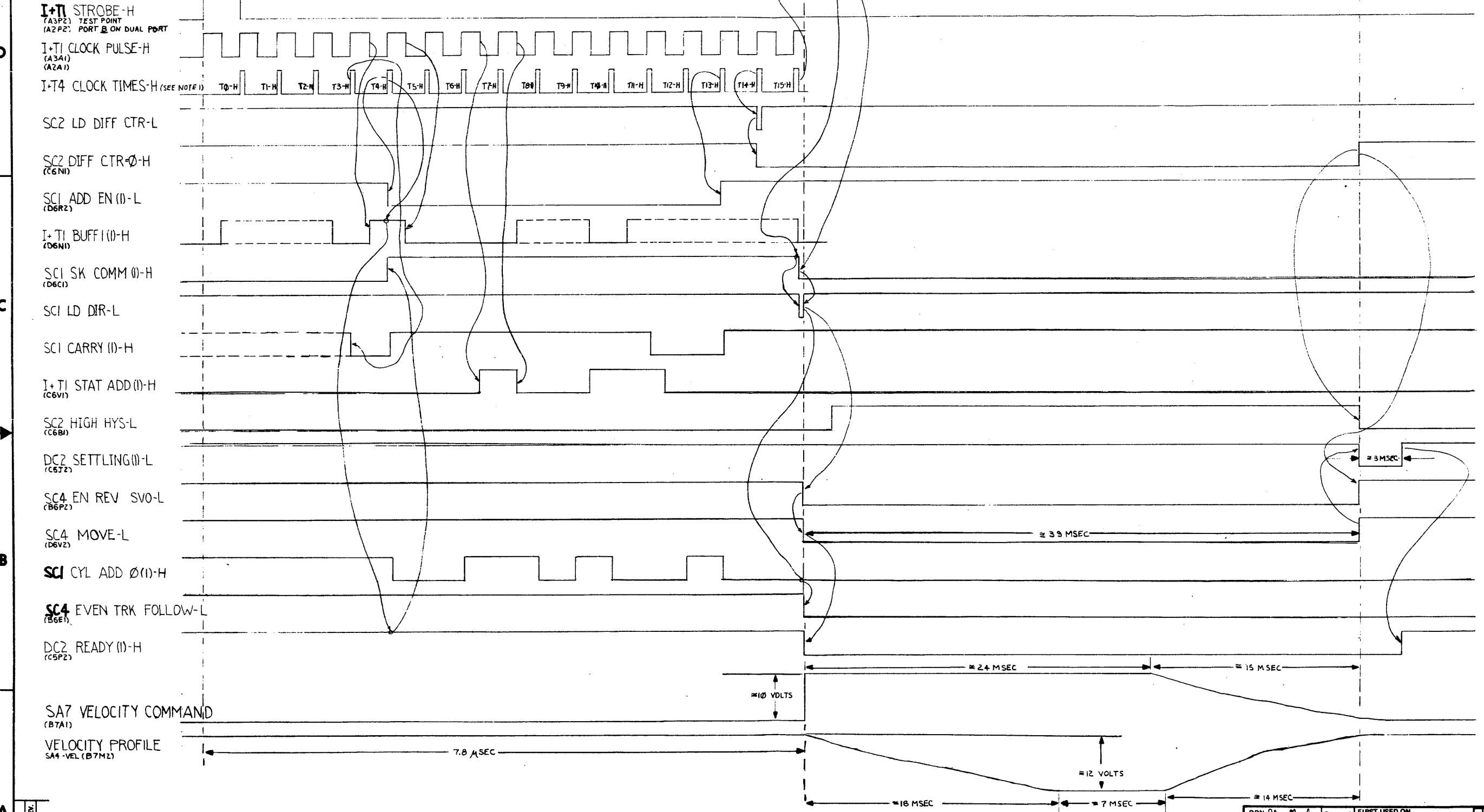


REVISIONS		
CHK	CHANGE NO.	REV.

REV. 2 DFD RK06/7-0-2

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SCA T15 PEXT-H
SCA E39 PIN4



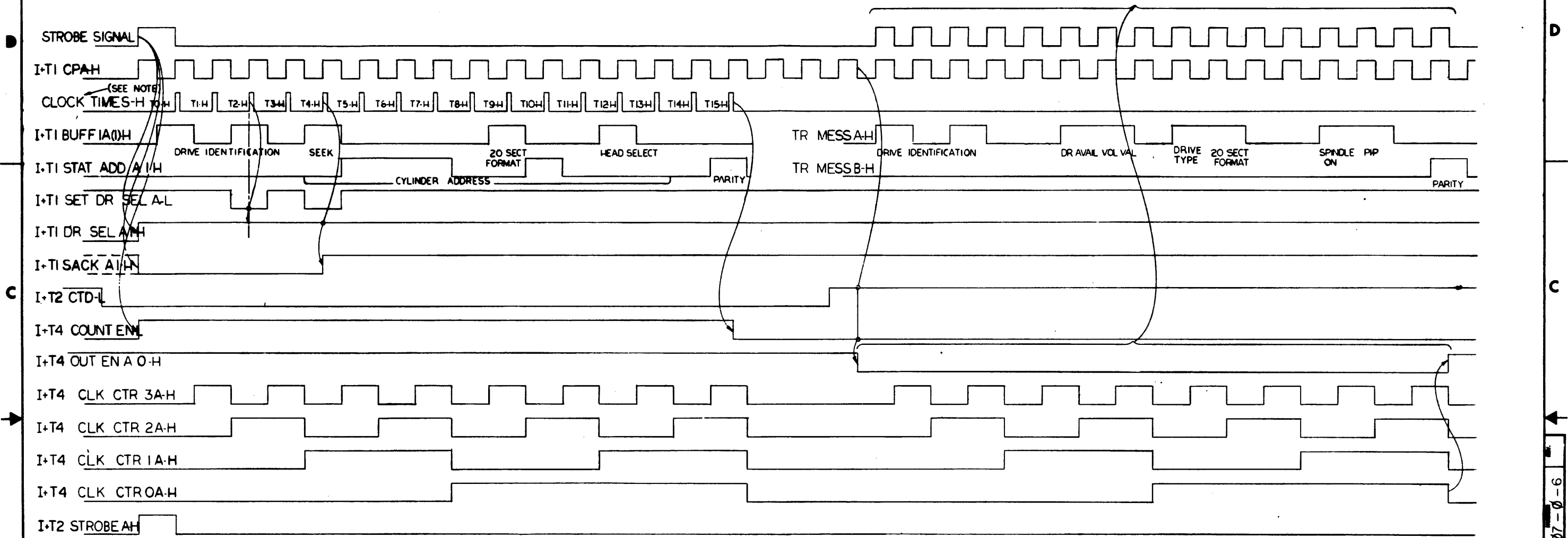
SYSTEM CONDITIONS:
 1. VOLUME VALID IS SET
 2. THERE ARE NO FAULTS
 3. DRIVE IS READY CARRIAGE IS ON CYLINDER 601₁₀ (1131₈)
 4. A SEEK COMMAND TO CYLINDER 200₁₀ (310₈) IS ISSUED.

NOTES:
 1. ALTHOUGH THE CLOCK TIMES ARE SEPARATE PARALLEL SIGNALS THEY ARE SHOWN AS A STRING OF PULSES TO CONSERVE SPACE

DRN. <i>John Nye</i>	7 Jan 78	FIRST USED ON	RK07 digital
CHK'D <i>[Signature]</i>	15 Jan 78	TITLE	SEEK OPERATION TIMING DIAGRAM
ENG. L. <i>[Signature]</i>	2 Jan 78	SIZE	D
PROJ. ENG. <i>[Signature]</i>	18 Jan 78	CODE	DD-RK07-0
PROD. <i>[Signature]</i>	13 Feb 78	NUMBER	5
NEXT HIGHER ASSY.		REV.	
SCALE		SHEET	1 OF 1
DIST.			

REV.	
CHANGE NO.	
DATE	

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SYSTEM CONDITIONS.

1. FRONT PANEL PORT ENABLE SWITCH IS DEPRESSED
2. DC VOLTAGES IN DRIVE ARE O.K.
3. VOLTAGES IN CONTROLLER ARE O.K.

NOTE. DURING THE CONTROLLER TO DRIVE TRANSMISSION

1. DRIVE NUMBER 5 IS SELECTED
2. A SEEK COMMAND TO CYLINDER 78 IS ISSUED.
3. FORMAT IS SET TO 20 SECTORS.
4. HEAD NUMBER 1 HAS BEEN SELECTED
5. ALTHOUGH THE CLOCK TIMES ARE SEPARATE SIGNALS THEY ARE SHOWN SERIALLY TO SAVE SPACE.

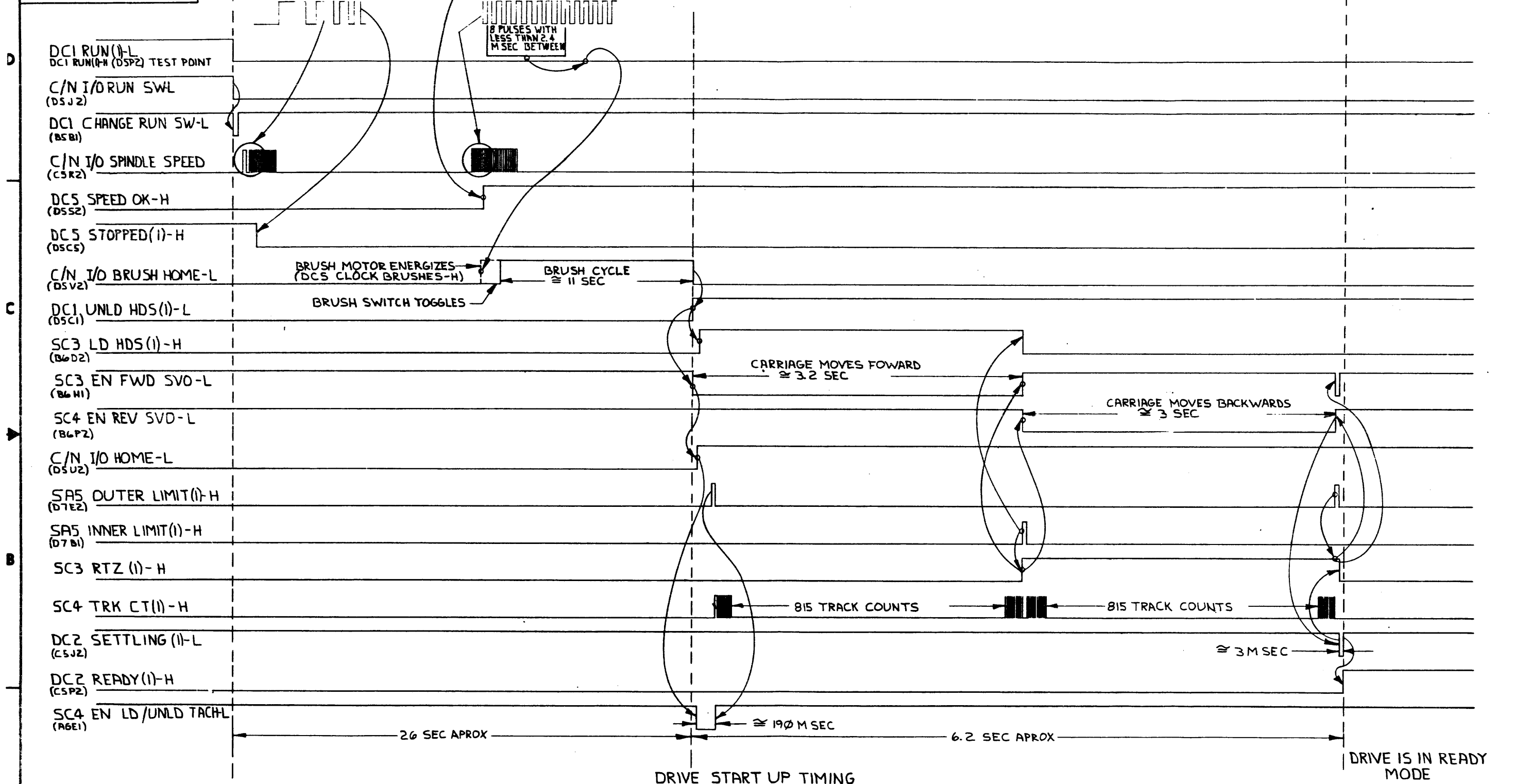
DURING THE DRIVE TO CONTROLLER TRANSMISSION

1. THE DRIVE IDENTIFIES ITSELF
2. TELLS CONTROLLER:

DRIVE IS AVAILABLE	FORMAT IS SET TO 20 SECTORS
VOLUME VALID IS SET	SPINDLE IS ON.
THERE IS A SEEK IN PROGRESS	

DRN. <i>2.1m70</i>	2.1m70	FIRST USED ON	RK07
CHK. <i>[Signature]</i>	12 JAN 78	TITLE	INTERFACE TIMING
ENGR. <i>[Signature]</i>	12 JAN 78	PROJECT	<i>[Signature]</i>
PROJ. EN. <i>[Signature]</i>	12 JAN 78	SCALE	1 OF 1
NEXT HIGHER ASSY.		SIZE CODE	DITD
B-DD-RK07-0		NUMBER	RK07-0-6
SCALE		DIST.	
SHEET	1 OF 1	REV.	

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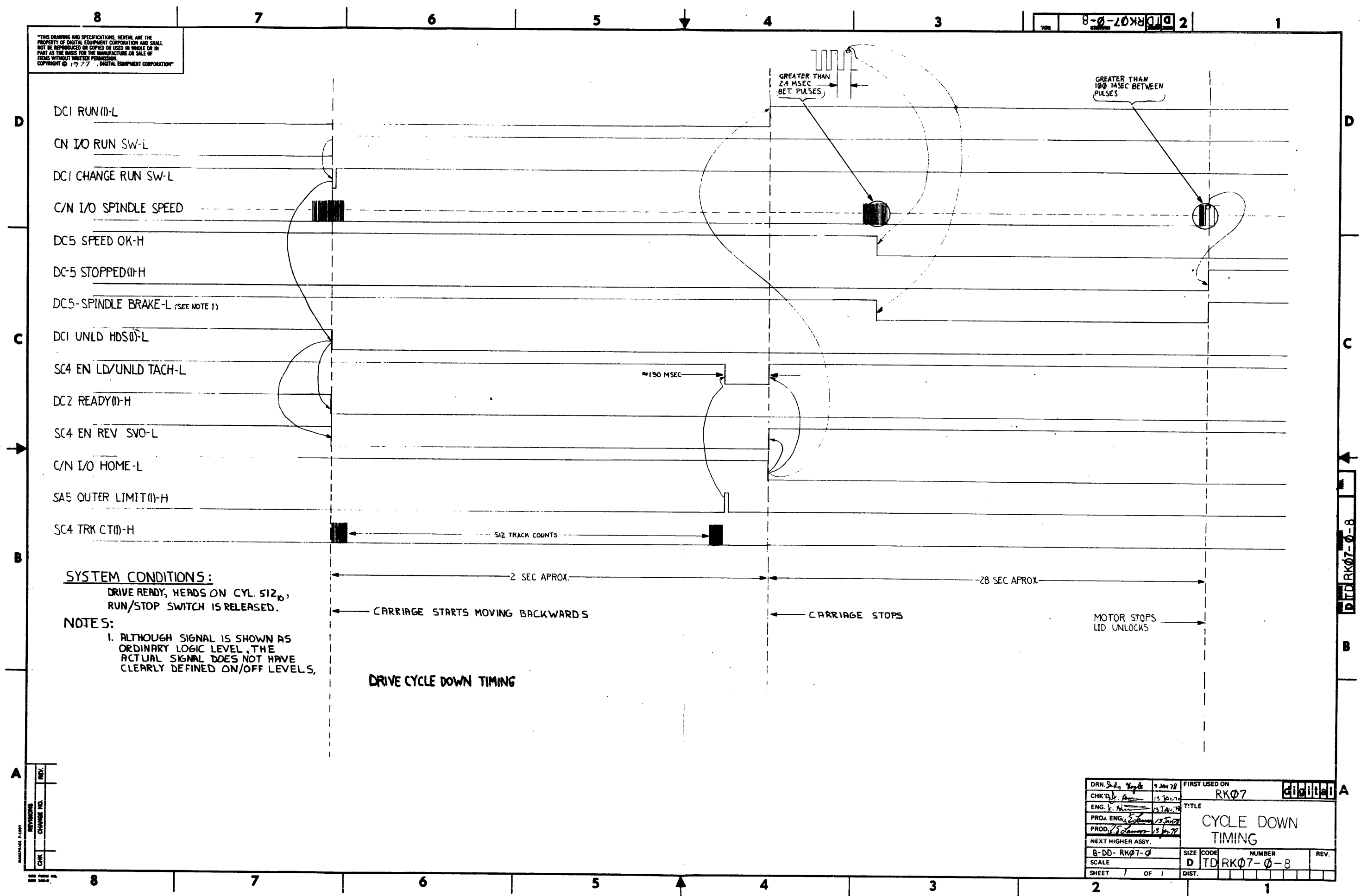


REV	
CHK	
CHG	
REV	
CHK	
CHG	

DRN. <i>J. J. ...</i>	DATE <i>12/27/77</i>	FIRST USED ON	<i>RK07</i>
CHK'D <i>J. J. ...</i>	DATE <i>3/28/78</i>	TITLE	<i>START UP TIMING RK07</i>
ENG. <i>J. J. ...</i>	DATE <i>12/27/77</i>	SIZE	<i>D</i>
PROJ. ENG. <i>J. J. ...</i>	DATE <i>12/27/77</i>	CODE	<i>DD</i>
PROD. <i>J. J. ...</i>	DATE <i>12/27/77</i>	NUMBER	<i>0-7</i>
NEXT HIGHER ASSY.		DIST.	
B-DD-RK07-0-1		REV.	
SHEET 1 OF 1			

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8-0-8 RK07-0-8 2



SYSTEM CONDITIONS:
 DRIVE READY, HEADS ON CYL. 512,
 RUN/STOP SWITCH IS RELEASED.

NOTES:
 1. ALTHOUGH SIGNAL IS SHOWN AS
 ORDINARY LOGIC LEVEL, THE
 ACTUAL SIGNAL DOES NOT HAVE
 CLEARLY DEFINED ON/OFF LEVELS.

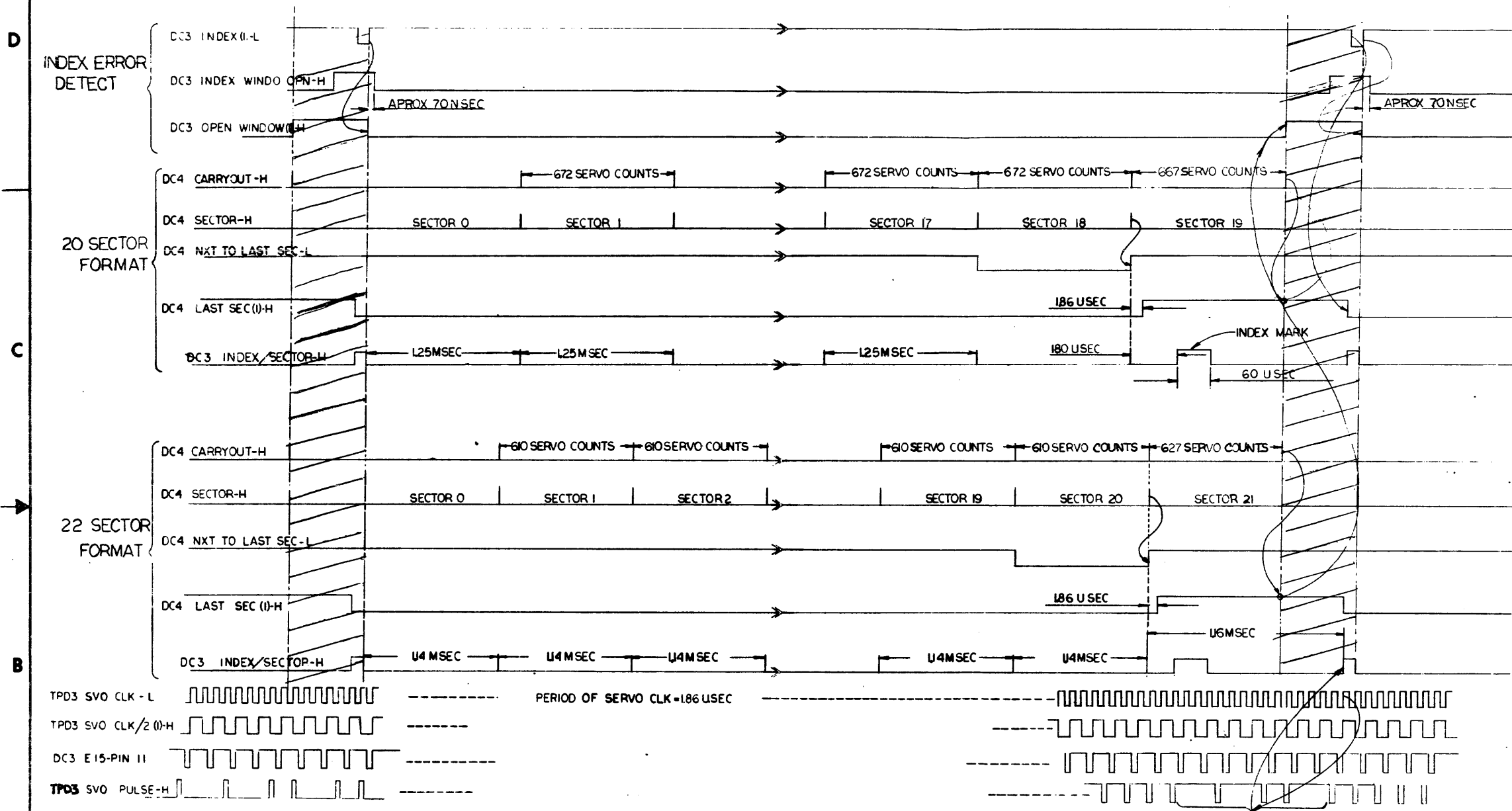
DRIVE CYCLE DOWN TIMING

REV.	
CHG	
REV	
CHG	
REV	
CHG	

DRN. <i>D. L. Maple</i>	9 JAN 78	FIRST USED ON	RK07	digital
CHK'D. <i>[Signature]</i>	15 JAN 78	TITLE	CYCLE DOWN TIMING	
ENG. <i>[Signature]</i>	13 JAN 78	SCALE	D TD RK07-0-8	
PROJ. ENG. <i>[Signature]</i>	13 JAN 78	SHEET	1	OF 1
PROD. <i>[Signature]</i>	13 JAN 78	DIST.		
NEXT HIGHER ASSY.		SIZE	CODE	NUMBER
B-DD-RK07-0		D		

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NOTES:



IC TYPE	GND	+5V
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTIONS ARE STATED ABOVE		
IC PIN LOCATIONS		

1. THE TIME SCALE OF THE SHADED AREA HAS BEEN EXPANDED OUT OF PROPORTION.
2. THE INDEX ERROR DETECT IS UTILIZED IN BOTH 20 AND 22 SECTOR FORMAT. THE NEXT TO LAST SECTOR PRELOAD ADJUSTS THE CARRYOUT AT THE END OF THE LAST SECTOR SUCH THAT OPEN WINDOW IS IN THE SAME PLACE REGARDLESS OF THE FORMAT.
3. SECTOR PULSE ϕ IS 3.72 USEC WIDE. ALL OTHER SECTOR PULSES ARE 1.86 USEC WIDE.

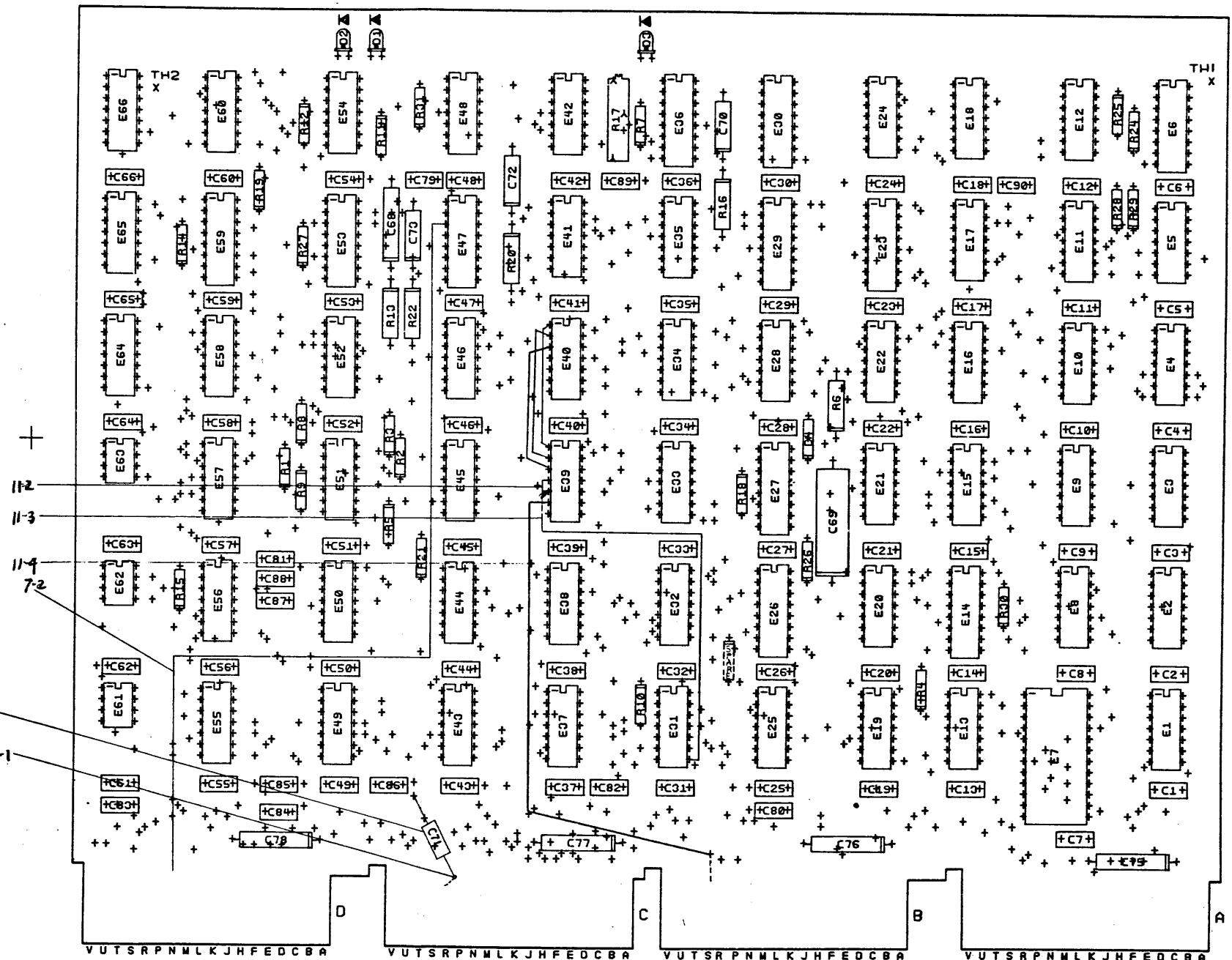
SPECIFIC PATTERN (01010) OF MISSING TRIBITS ON SERVO SURFACE.

FIRST USED ON OPTION MODEL		QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
RK06						
PARTS LIST						
ETCH BOARD REV.						
DRN.	DATE	digital				
CHK'D.	DATE	TITLE SECTOR COUNTER TIMING				
ENG.	DATE	NEXT HIGHER ASSY B-DD-RK06-0				
PROD. ENG.	DATE	SCALE				
PROD.	DATE	SIZE CODE NUMBER REV. DTD RK06-0-8 A				
SEMICONDUCTOR CONVERSION CHART		SHEET 1 OF 1				

REV. A
D D D RK06-0-8

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REWORK INSTRUCTIONS:
 ECO #7
 ETCH CUTS SIDE 1:
 7-1. CUT ETCH SIDE 1 AT E47-3
 WIRE ADDS SIDE 1:
 7-2. ADD WIRE BETWEEN DN1 AND E47-3
 ECO #8
 9-1. DRILL ONE .55 HOLE
 9-2. INSTALL ONE END OF 510mmf CAP. THROUGH HOLE, TRIM AND TACK SOLDER TO PIN C62. USE TUBING A/R ON EXPOSED LEAD(SIDE 1).
 9-3. INSTALL OTHER END OF CAP. IN PLATED THROUGH HOLE IN GROUND BUS. TRIM, USE TUBING A/R ON EXPOSED BOARD AND SOLDER.
 ECO #11
 ETCH CUTS SIDE 2
 11-1. CUT ETCH SIDE 2 AT B52 AS SHOWN
 WIRE ADDS
 11-2. E39-4 TO E39-5
 11-3. E39-5 TO E31-8
 11-4. E39-6 THROUGH FEEDTHROUGH AT B51 TO B52



NOTES: **REWORK**
 JOIN E39-1 TO E40-1
 JOIN E39-3 TO E40-2
 JOIN E39-5 TO E40-3

CHANGE NO	REV	BY	DATE	DESCRIPTION
1	K	ALDRMAN		
2	L	M7705-7		
3	M	M7705-0109		
4	N	M7705-0237		
5	O	M7705-0237		
6	P	M7705-0237		
7	Q	M7705-0237		
8	R	M7705-0237		
9	S	M7705-0237		
10	T	M7705-0237		
11	U	M7705-0237		
12	V	M7705-0237		
13	W	M7705-0237		
14	X	M7705-0237		
15	Y	M7705-0237		
16	Z	M7705-0237		

HOLE DATA	
SYMBOL	+ A X
FIN HOLE SIZE	.038 .042 .056
PLATED	✓ ✓ ✓
NON PLATED	
QTY.	185 7 3 2
○-OFF GRD HLE	
DRILL SIZE	

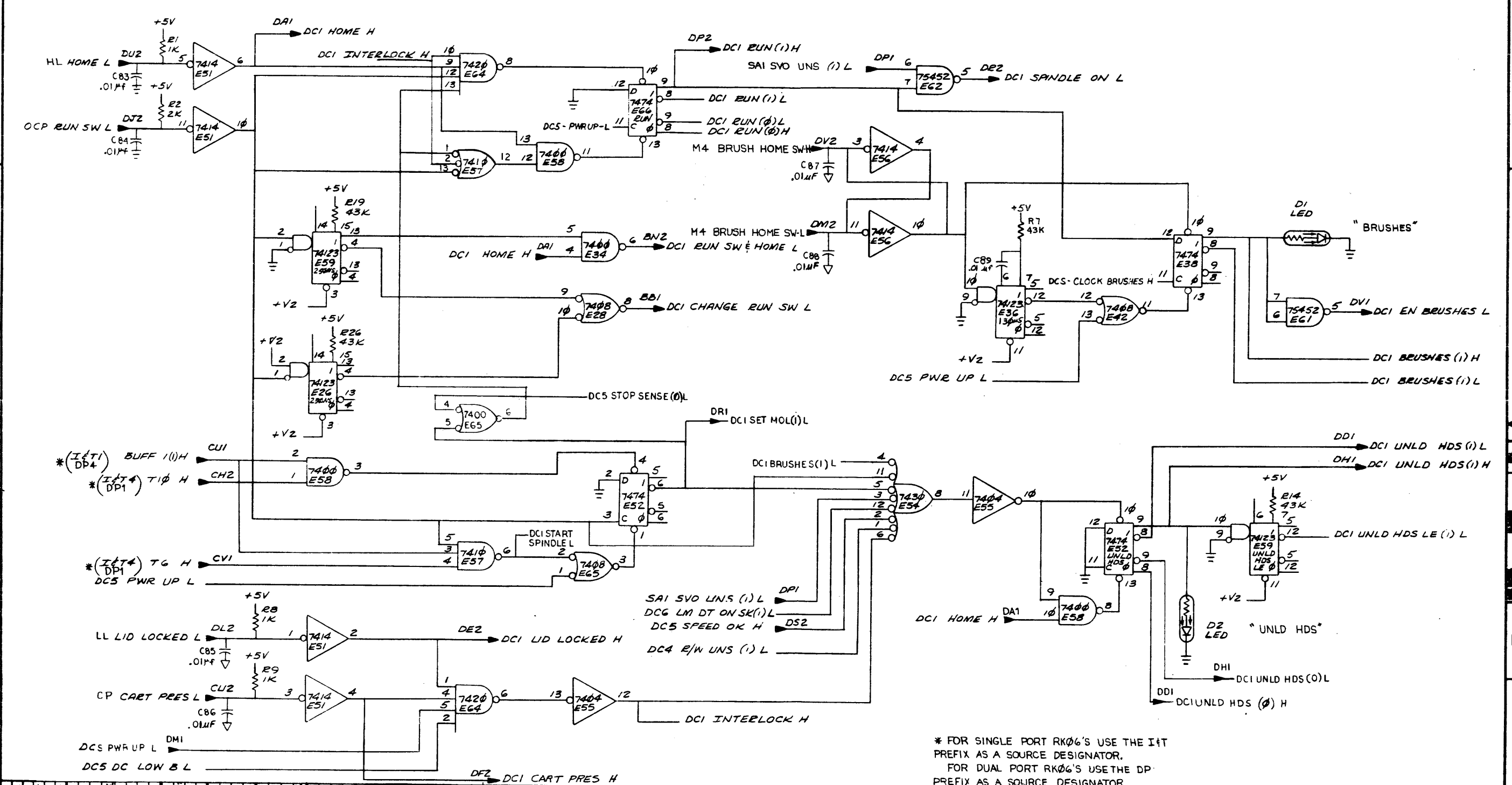
BOARD FABRICATION INFORMATION	
PANEL SIZE	8 1/2 QUAD
PANEL DATA Dwg.#	D-MD-7605819-0-0
PANEL MAT'L	.052 THK.
QTY. OF LAYERS	2
COPPER THICKNESS	1 OZ.
PTH.	✓ PRINT AND ETCH
HOLE INSERTED	188 TIMES OR MORE?

SIGNATURES		DATE
DRN.	J. CARTER	4-14-77
CHK'D.		
ENG.	M. [Signature]	5-22-77
PROJ. ENG.	M. [Signature]	5-2-77
PROD.		
SCALE	2/1	
SHT.	1 OF 4	
NEXT HIGHER ASSY.		

digital
 TITLE **DRIVE CONTROL LOGIC**
 SIZE CODE NUMBER REV
 0 AH M7705-0-5 P
 ETCH REV. E

D/AH/M7705-0-5 P

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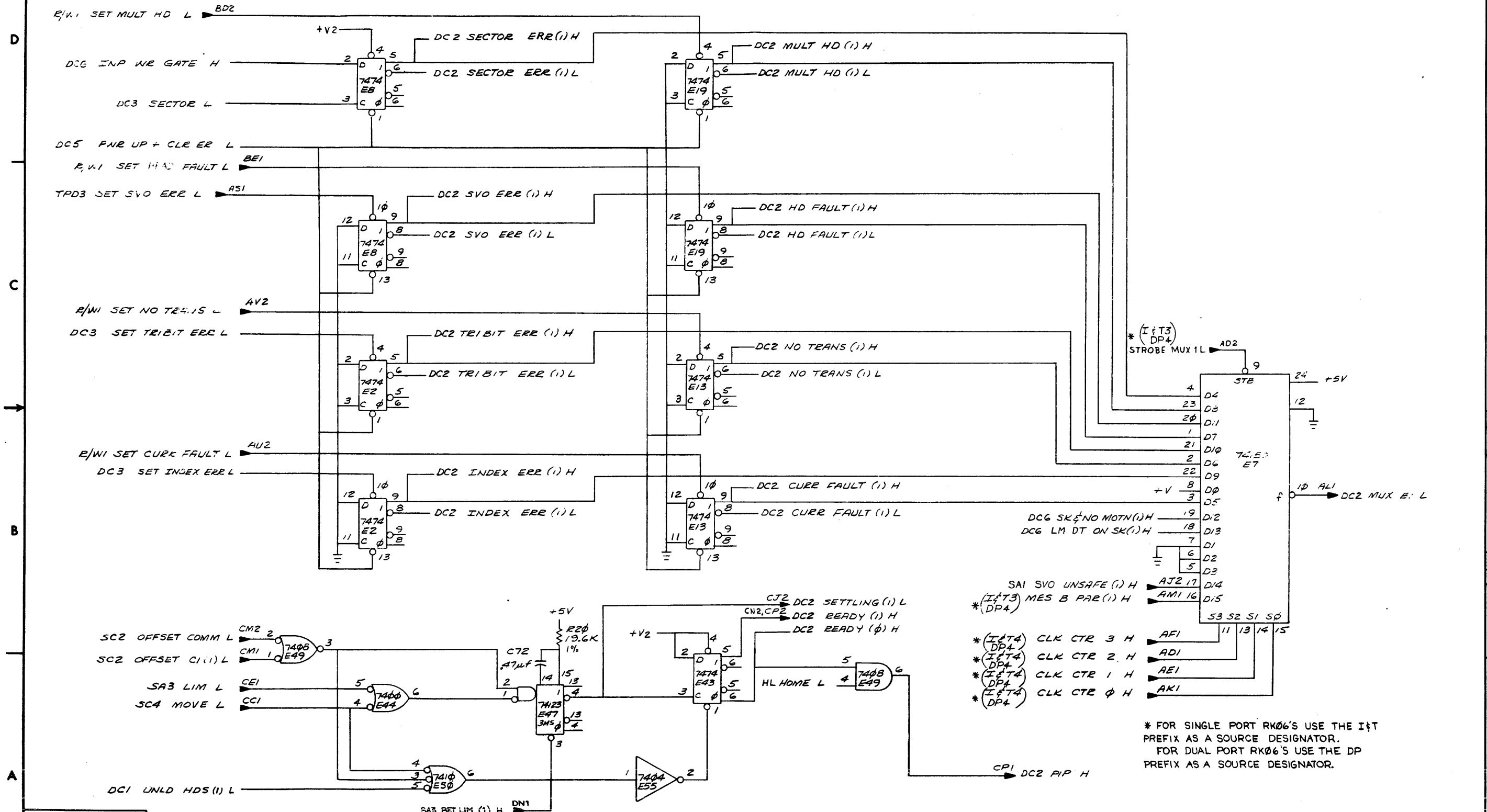


* FOR SINGLE PORT RK06'S USE THE IAT PREFIX AS A SOURCE DESIGNATOR.
 FOR DUAL PORT RK06'S USE THE DP PREFIX AS A SOURCE DESIGNATOR.

REV.	DATE	BY	CHK'D	APP'D
1	10/10/76	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS
2	11/11/76	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS
3	12/12/76	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS
4	01/13/77	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS
5	02/14/77	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS
6	03/15/77	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS
7	04/16/77	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS
8	05/17/77	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS
9	06/18/77	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS
10	07/19/77	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS
11	08/20/77	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS
12	09/21/77	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS
13	10/22/77	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS
14	11/23/77	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS
15	12/24/77	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS
16	01/25/78	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS
17	02/26/78	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS
18	03/27/78	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS
19	04/28/78	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS
20	05/29/78	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS
21	06/30/78	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS
22	07/31/78	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS
23	08/31/78	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS
24	09/30/78	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS
25	10/31/78	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS
26	11/30/78	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS
27	12/31/78	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS
28	01/31/79	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS
29	02/29/79	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS
30	03/30/79	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS
31	04/30/79	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS
32	05/31/79	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS
33	06/30/79	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS
34	07/31/79	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS
35	08/31/79	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS
36	09/30/79	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS
37	10/31/79	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS
38	11/30/79	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS
39	12/31/79	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS
40	01/31/80	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS

DATE	BY	CHK'D	APP'D	TITLE
10/10/76	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS	DRIVE CONTROL LOGIC (DCI)
11/11/76	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS	DRIVE CONTROL LOGIC (DCI)
12/12/76	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS	DRIVE CONTROL LOGIC (DCI)
01/13/77	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS	DRIVE CONTROL LOGIC (DCI)
02/14/77	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS	DRIVE CONTROL LOGIC (DCI)
03/15/77	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS	DRIVE CONTROL LOGIC (DCI)
04/16/77	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS	DRIVE CONTROL LOGIC (DCI)
05/17/77	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS	DRIVE CONTROL LOGIC (DCI)
06/18/77	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS	DRIVE CONTROL LOGIC (DCI)
07/19/77	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS	DRIVE CONTROL LOGIC (DCI)
08/20/77	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS	DRIVE CONTROL LOGIC (DCI)
09/21/77	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS	DRIVE CONTROL LOGIC (DCI)
10/22/77	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS	DRIVE CONTROL LOGIC (DCI)
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12/24/77	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS	DRIVE CONTROL LOGIC (DCI)
01/25/78	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS	DRIVE CONTROL LOGIC (DCI)
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06/30/78	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS	DRIVE CONTROL LOGIC (DCI)
07/31/78	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS	DRIVE CONTROL LOGIC (DCI)
08/31/78	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS	DRIVE CONTROL LOGIC (DCI)
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11/30/78	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS	DRIVE CONTROL LOGIC (DCI)
12/31/78	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS	DRIVE CONTROL LOGIC (DCI)
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04/30/79	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS	DRIVE CONTROL LOGIC (DCI)
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11/30/79	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS	DRIVE CONTROL LOGIC (DCI)
12/31/79	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS	DRIVE CONTROL LOGIC (DCI)
01/31/80	P. CASTELLANOS	P. CASTELLANOS	P. CASTELLANOS	DRIVE CONTROL LOGIC (DCI)

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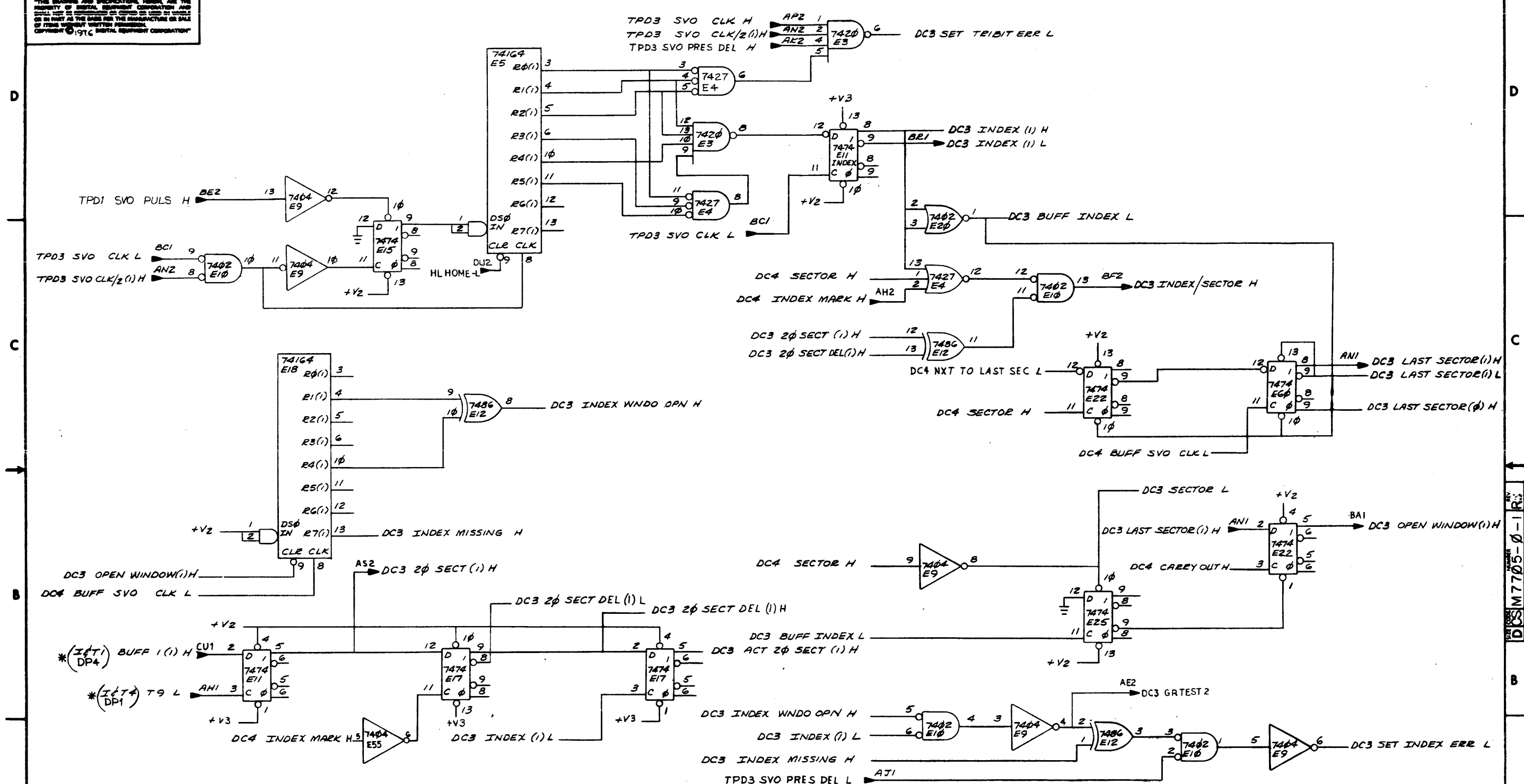
DCG SK & NO MOTN (1) H
DCG LM DT ON SK (1) H
SAI SVO UNSAFE (1) H
(I1, I2, I3) MES B PAR (1) H
*(DP4)

*(I1, I2, I3) CLK CTR 3 H
*(I1, I2, I3) CLK CTR 2 H
*(I1, I2, I3) CLK CTR 1 H
*(I1, I2, I3) CLK CTR 0 H
*(DP4)

* FOR SINGLE PORT RK06'S USE THE I1, I2, I3 PREFIX AS A SOURCE DESIGNATOR.
FOR DUAL PORT RK06'S USE THE DP PREFIX AS A SOURCE DESIGNATOR.

REVISIONS		
CHK	CHANGE NO.	REV.

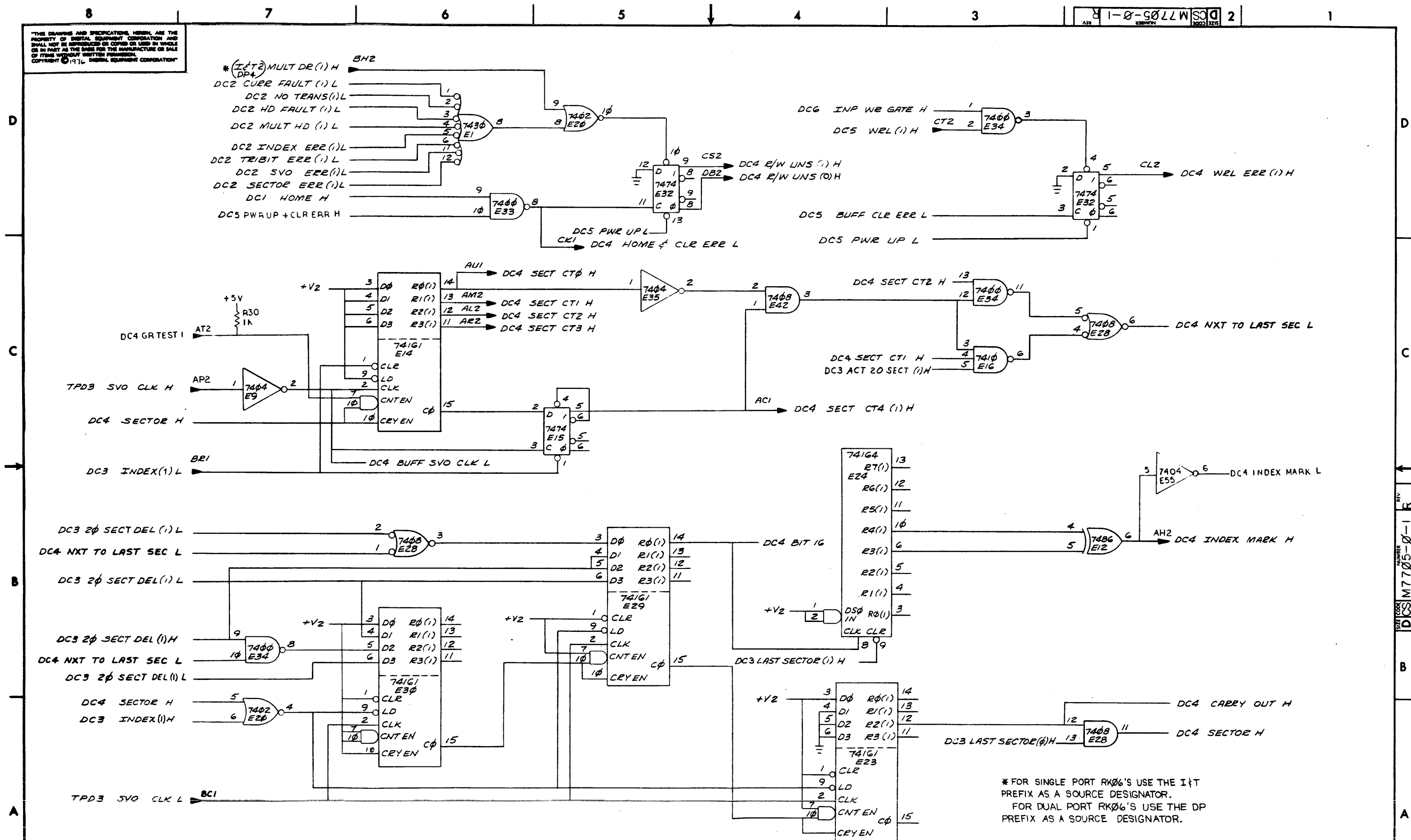
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* FOR SINGLE PORT RK06'S USE THE I+T PREFIX AS A SOURCE DESIGNATOR.
 FOR DUAL PORT RK06'S USE THE DP PREFIX AS A SOURCE DESIGNATOR.

REVISIONS		
CHK	CHANGE NO.	REV.

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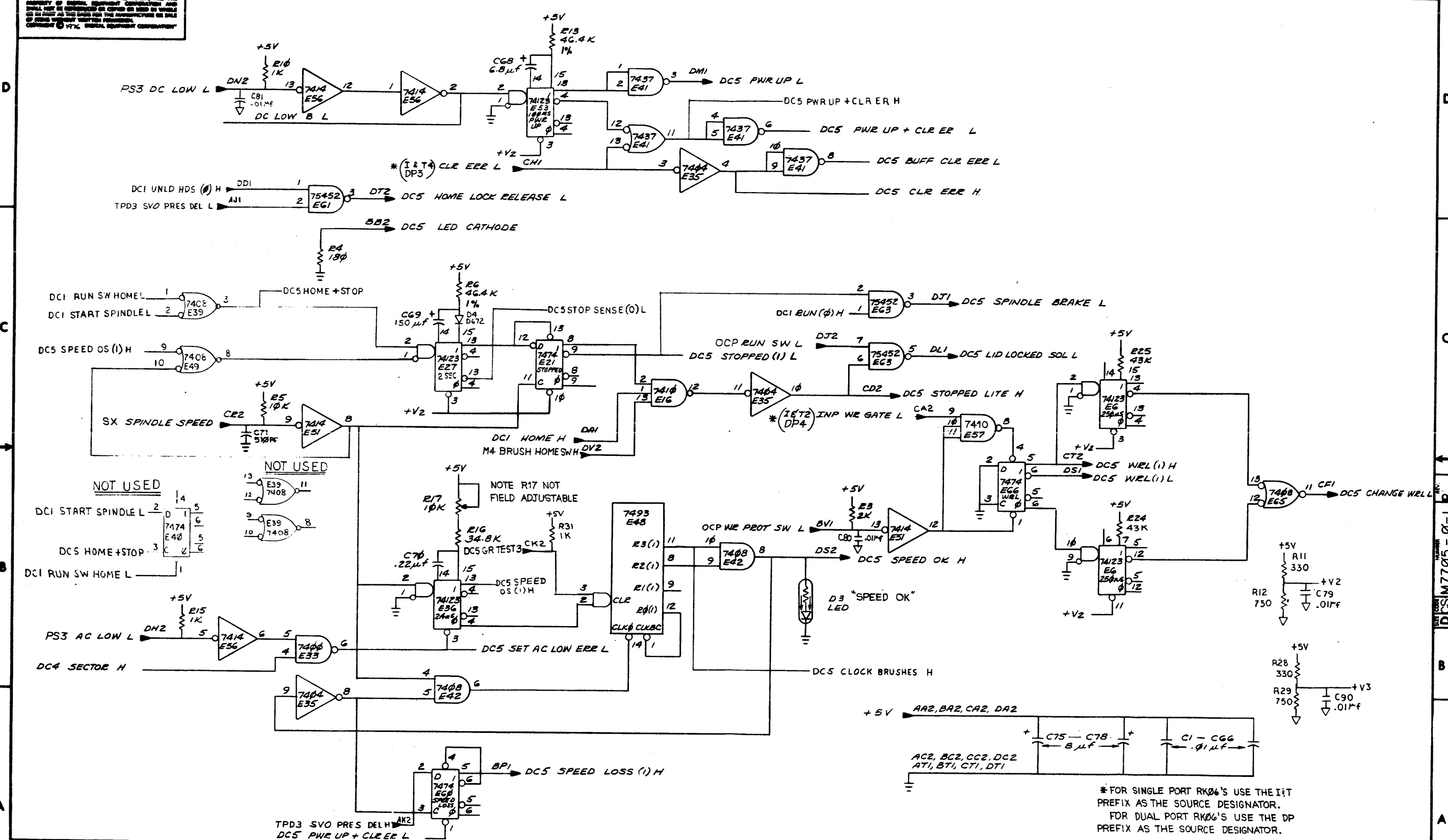


* FOR SINGLE PORT Rk06'S USE THE I&T PREFIX AS A SOURCE DESIGNATOR.
 FOR DUAL PORT Rk06'S USE THE DP PREFIX AS A SOURCE DESIGNATOR.

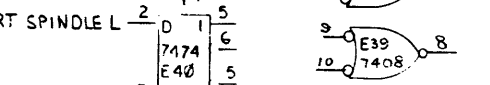
REVISIONS		
CHK	CHANGE NO.	REV.

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1-0-077LM SCD 2



NOT USED

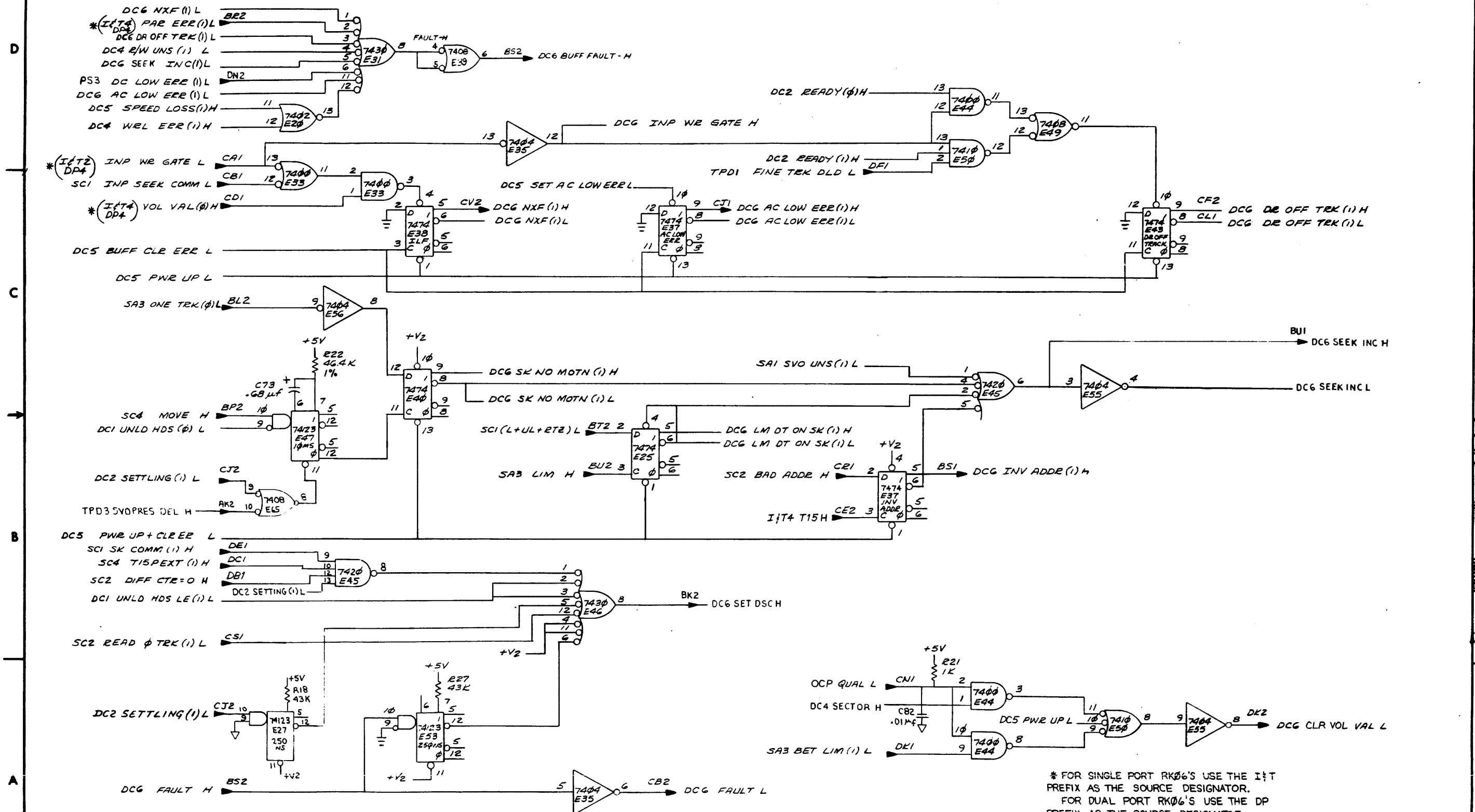


NOTE R17 NOT FIELD ADJUSTABLE

* FOR SINGLE PORT R_K'S USE THE IIT PREFIX AS THE SOURCE DESIGNATOR.
 FOR DUAL PORT R_K'S USE THE DP PREFIX AS THE SOURCE DESIGNATOR.

REVISIONS		
CHK	CHANGE NO.	REV.

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* FOR SINGLE PORT RKG'S USE THE I:T PREFIX AS THE SOURCE DESIGNATOR.
 FOR DUAL PORT RKG'S USE THE DP PREFIX AS THE SOURCE DESIGNATOR.

REVISIONS		
CHK	CHANGE NO.	REV.

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
1	1	D-CS-M7705-0-1	DRIVE CONTROL LOGIC (C.S.)	REF	
2	2	D-UA-M7705-0-0	DRIVE CONTROL LOGIC	REF	
3	3	B-MH-M7705-0-6	MODULE ECO HISTORY	REF	
4	4	5011260-00	M7705	1	
5	5	1001610-00	.01 MFD 50V +80-20% 25U CER	78	C1-C66,C79-C90
6	6	1010031-03	.22 MFD 50V 10% M.POLYCARB	1	C70
7	7	1005965-00	.47 MFD 35V 10% S.TANT	1	C72
8	8	1005306-00	6.8MFD 35V 10% S.TANT	1	C68
9	9	1012084-01	8 MFD 25V +75-10% AL EL	4	C75-C78
10	10	1112689-00	LED .8MCD@16MA VF=5V	3	D1-D3
11	11	1300479-00	10.0 K .25 W 5.0 % CC	1	R5
12	12	1301322-00	180.0 .25 W 5.0 % CC	1	R4
13	13	1300295-00	330.0 .25 W 5.0 % CC	2	R11,R28
14	14	1300365-00	1.0 K .25 W 5.0 % CC	8	R1,R8,R9,R10,R15,R21,R30,R31
15	15	1301401-00	750.0 .25 W 5.0 % CC	2	R12,R29
16	16	1304838-00	43.0 K .25 W 5.0 % CC	8	R7,R14,R19,R18,R24-R27
17	17	1303311-00	46.40 K .25 W 1.0 % RN55D-F10	3	R6,R13,R22
18	18	1309143-10	10.0 K .75 W10.0 % POT	1	R17
19	19	1303156-00	34.80 K .25 W 1.0 % RN55D-F10	1	R16
20	20	1309419-00	19.60 K .25 W 1.0 % RN55D-F10	1	R20
21	21	1302388-00	2.0 K .25 W 5.0 % CC	2	R2,R3
22	22	1905547-00	7474 FF-D DUAL,EDGE TRIGG	18	E2,E8,E11,E13,E15,E17,E19,E21, E22,E25,E32,E37,E38,E40,E43,E52, E60,E66
23	23	1905575-00	7400 NAND GATE-QUAD 2IN	4	E33,E34,E44,E58
24	24	1905576-00	7410 NAND GATE-TRIPLE 3IN	3	E16,E50,E57
25	25	1905577-00	7420 NAND GATE-DUAL 4INPU	3	E3,E45,E64
26	26	1905578-00	7430 NAND GATE-SINGLE 8IN	4	E1,E31,E46,E54
27	27	1909004-00	DEC 7402 NOR GATE-QUAD 2IN	2	E10,E20
28	28	1909054-00	7493 COUNTER,ASYNCH UP,BI	1	E48

REVISION HISTORY		BASIC PART NO:	M7705	DRN:	L. METZGER	DATE:	17-JAN-78	DIGITIAL			
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	H. DARAKJIAN	DATE:	17-JAN-78	TITLE PARTS LIST			
W.H	00009	M	SECTION VARIATION INDEX	DES.ENG:	R. LAWSON	DATE:	17-JAN-78	DRIVE CONTROL LOGIC			
M.C	M7705-ML011	N	[A] 00	RESP.ENG.:	R. LAWSON	DATE:	17-JAN-78	DOCUMENT NUMBER			
MC	M7705-ML013	P	[B]	MFG.ENG.:	C. POWELL	DATE:	17-JAN-78	SIZE	CODE	NUMBER	REV
MC	M7705-ML014	R	[C]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		K	PL	M7705-0-DBP	R
			[D]	D-UA-M7705-0-0		#B-DC-M7705-0		FILE NAME:		Z1484R.PLS	EDIT #
			[E]								16
			[F]								
			[G]								
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			[I]								
			[J]								
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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					00		
29	29		1909686-00	7404 INVERTER GATE-HEX 11	3		E9, E35, E55
30	30		1910041-00	DEC 74164 SHIFT REG. 8BIT SERI	3		E5, E18, E24
31	31		1910153-00	DEC 74150 MUX 1 OF 16	1		E7
32	32		1910155-00	DEC 7408 AND GATE, POS. QUAD 2I	5		E28, E42, E49, E65, E39
33	33		1910091-00	DEC 7437 AND GATE-QUAD 2IN, BU	1		E41
34	34		1910645-00	75452 DRIVER, PERIPH, DUAL,	3		E61, E62, E63
35	35		1910011-00	DEC 7486 X-OR GATE-QUAD 2INPU	1		E12
36	36		1910436-00	DEC 74123 ONE SHOT-DUAL, RETRIG	7		E6, E26, E27, E36, E47, E53, E59
37	37		1910650-00	74161 COUNTER, SYNCHR. UP	4		E14, E23, E29, E30
38	38		1910878-00	7427 NOR GATE-TRIPLE 3IN	1		E4
39	39		1911324-00	7414 INVERTER, HEX 1IN SCH	2		E51, E55
40	40		9000024-01	EYELET, ROLLED FLANGE, .121 OD X	8		
41	41		1213113-01	HANDLE, MODULE,	1		
42	42		1009964-00	.68 MFD 35V 10% S.TANT	1		C73
43	43		9105740-55	WIRE(WRAP)30AWG UL1423	A/R		
44	44		1105275-00	D 672 TR= 15NS PIV= 60V SI	1		D4
45	45		1005572-00	150 MFD 6V 20% S.TANT	1		C69
46	46		1002476-00	510.0 MMF 100V 5%200PFM MICA	1		C71
47	47		9107256-00	TUBING, THIN WALL, .027ID UL	A/R		
48	48	D-MD-5011261-0-0		DRILL AND ETCH DRAWING	REF		
49	49	D-EC-5011261-0-0		ETCH CUT DRAWING	REF		

50 NOTE: ITEM #39: USE ONLY FAIRCHILD AND T.I. PARTS.

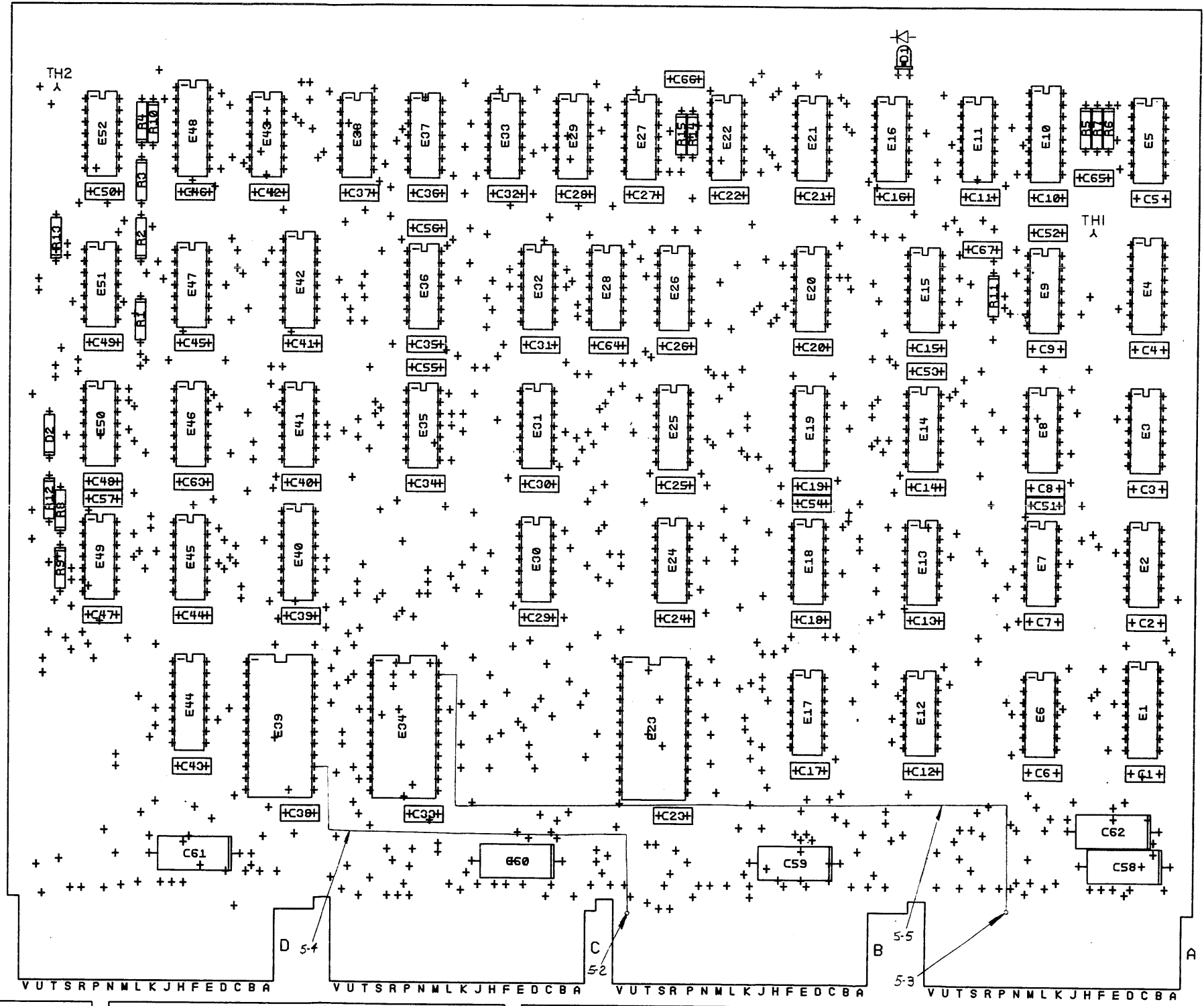
D	I	G	I	T	A	L	TITLE	DRIVE CONTROL LCGIC	SECTION A	OF A	SIZE	CODE	DOCUMENT NUMBER	REV
											K	PL	M7705-0-DBP	R

COMPONENT SIDE VIEW

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REWORK INSTRUCTIONS:

- ECO # 5
 ETCH CUT SIDE 1:
 5-1 CUT BETWEEN E34-4 & E34-23 (PRIOR TO INSTALLATION OF E34)
 HOLE ADDS
 5-2 ADD HOLE AT LOCATION BU-BV AS SHOWN
 HAND DRILL #60 (.040 DIA) HOLE.
 5-3 ADD HOLE AT LOCATION AN-AP AS SHOWN
 HAND DRILL #60 (.040 DIA) HOLE.
 WIRE ADDS SIDE 1:
 5-4 ADD WIRE AT E39-15 TO BT2 (THROUGH HOLE BETWEEN BU AND BV)
 5-5 ADD WIRE AT E34-23 TO AM2 (THROUGH HOLE BETWEEN AN AND AM)



NOTES: 1. DO NOT INSTALL E38.

CH	NO	REV	DATE	BY	CHK'D
M7706-0004	F				
M7706-0005	F				
M7706-0006	F				
M7706-0007	F				
M7706-0008	F				

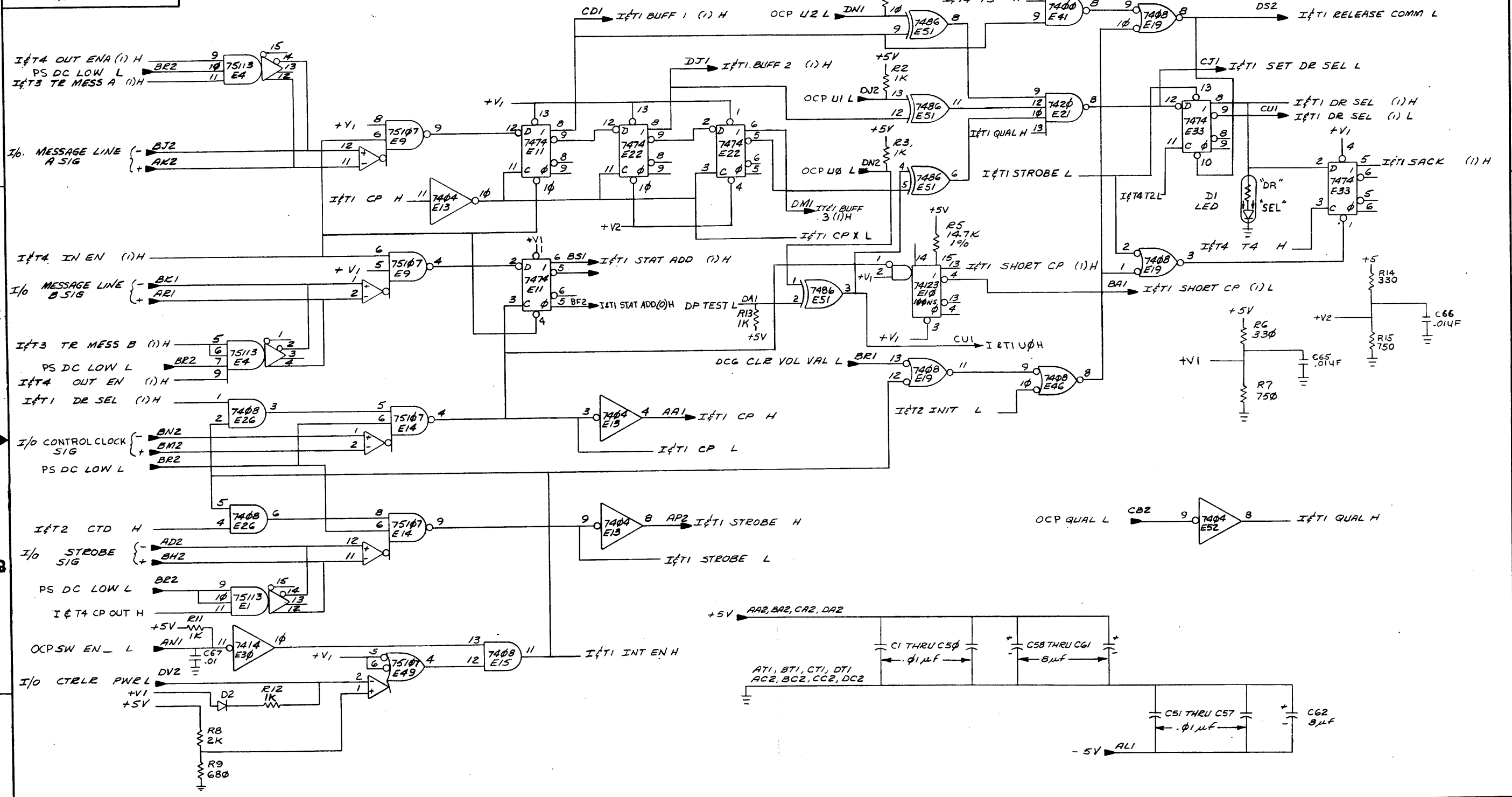
HOLE DATA										
SYMBOL	+	λ	X	↑	Z	H	Δ	D	◇	X
FIN HOLE SIZE		∅38	156							
PLATED		✓	✓							
NON PLATED										
QTY.		1712	2							
○-OFF GRD HLE										
DRILL SIZE										

BOARD FABRICATION INFORMATION	
PANEL SIZE	QUAD 8.54 x 11.75
PANEL DATA	DWG. # D-MD-7605819-0-0
PANEL MAT'L	.052 THK
QTY. OF LAYERS	2
COPPER THICKNESS	1 OZ
PTH.	PRINT AND ETCH NO
MODULE INSERTED	100 TIMES OR MORE? NO

SIGNATURES		DATE	digital
ORN.	<i>[Signature]</i>	7/28/77	
CHK'D.	<i>[Signature]</i>	8-3-77	
ENG.	<i>[Signature]</i>	9-16-77	
PROJ. ENG.	<i>[Signature]</i>	9-16-77	
PROD.			
SCALE	2/1		
SHT.	1 OF 4		
NEXT HIGHER ASSY.			

TITLE	DRILL AND ETCH DRAWING
SIZE CODE	NUMBER
D AH M7706-0-5	H
ETCH REV.	0

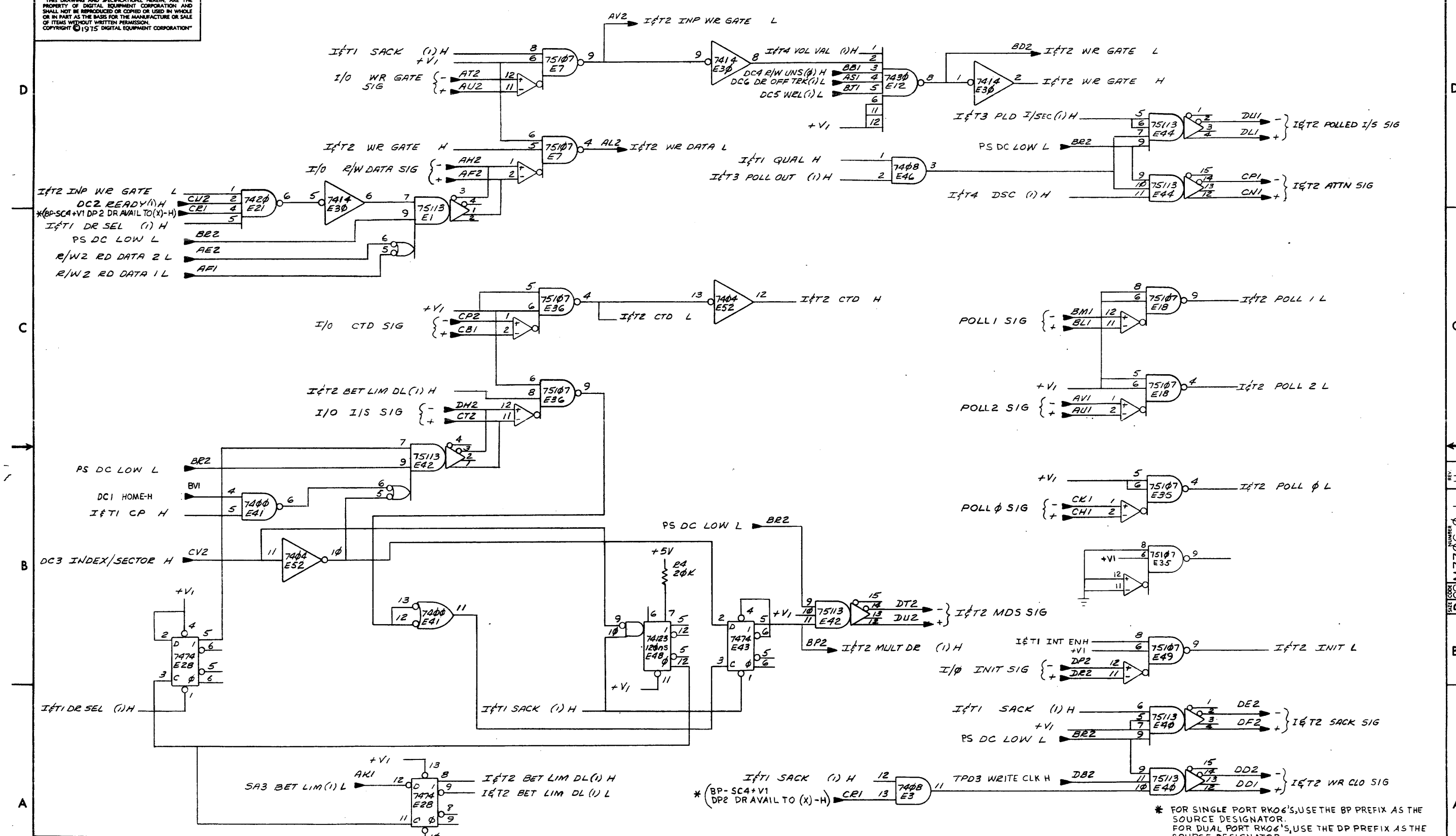
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REV.	CHG	NO.	DATE	BY	CHKD.
1					
2					
3					
4					
5					
6					
7					
8					

DRN. BY: METER	DATE: 11/20/75	FIRST USED ON: RK06
CHK'D BY: [Signature]	DATE: 24 NOV 75	TITLE: INTERFACE & TIMING (IFTI)
ENGR: [Signature]	DATE: 23 NOV 75	SIZE CODE: DCS
PROJ. ENGR: [Signature]	DATE: 23 NOV 75	NUMBER: M7706-0-1
PROD. ENGR: [Signature]	DATE: 23 NOV 75	REV.:
NEXT HIGHER ASSY.:		
SCALE: 1/1		
SHEET 1 OF 4		

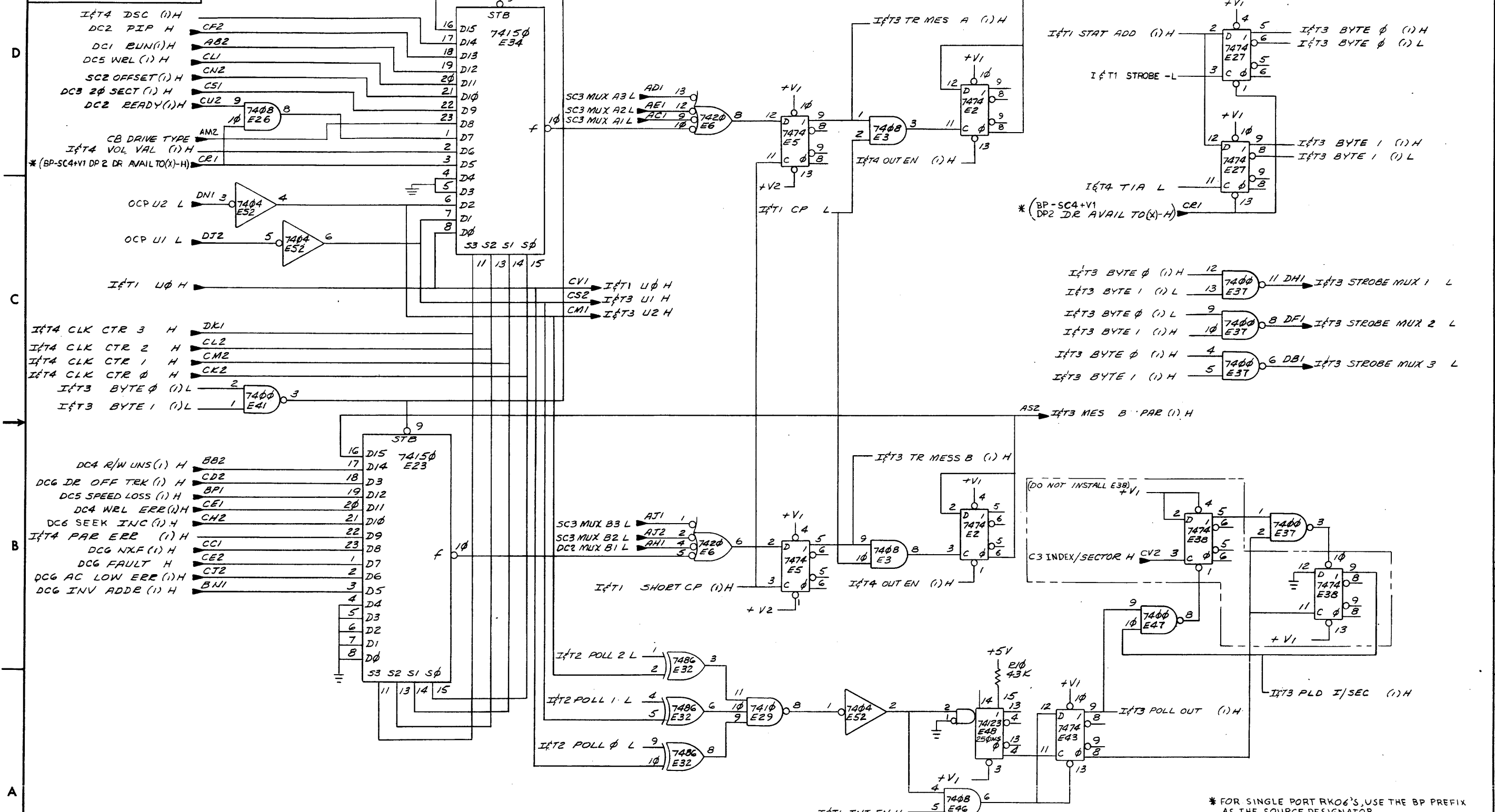
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* FOR SINGLE PORT RKO6'S, USE THE BP PREFIX AS THE SOURCE DESIGNATOR. FOR DUAL PORT RKO6'S, USE THE DP PREFIX AS THE SOURCE DESIGNATOR

REVISIONS		
CHK	CHANGE NO.	REV.

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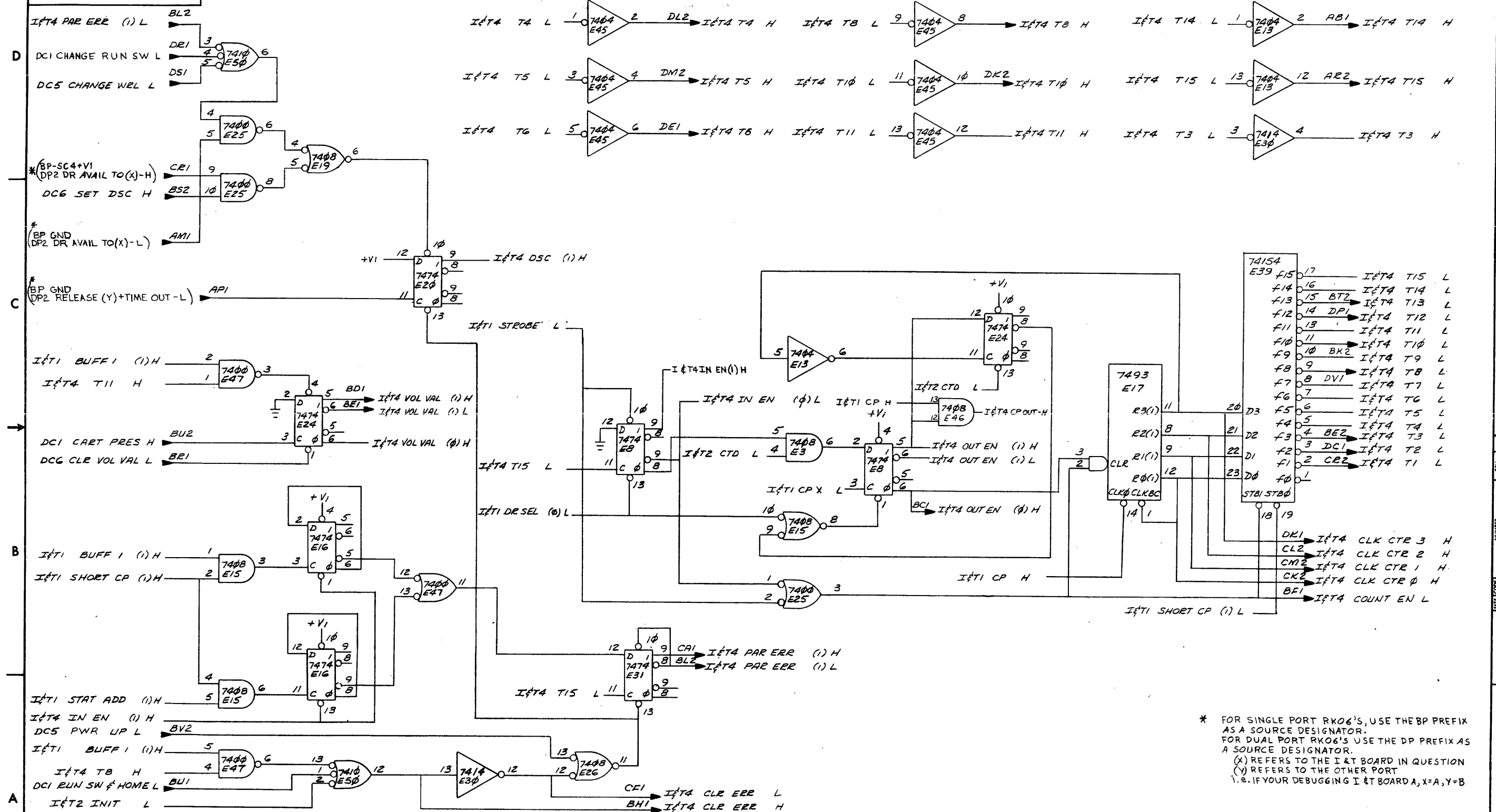


REVISIONS		
CHK	CHANGE NO.	REV.

* FOR SINGLE PORT RKO'S, USE THE BP PREFIX AS THE SOURCE DESIGNATOR.
 FOR DUAL PORT RKO'S, USE THE DP PREFIX AS THE SOURCE DESIGNATOR

REV. H
NUMBER M7706-0-1
SIZE CODE DCS

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* FOR SINGLE PORT RKO6'S, USE THE BP PREFIX AS A SOURCE DESIGNATOR.
 FOR DUAL PORT RKO6'S USE THE DP PREFIX AS A SOURCE DESIGNATOR.
 (X) REFERS TO THE I&T BOARD IN QUESTION
 (Y) REFERS TO THE OTHER PORT
 I.E. IF YOUR DEBUGGING I&T BOARD A, X=A, Y=B

REVISIONS		
CHK	CHANGE NO.	REV.

REV. H NUMBER DCSM7706-0-1

DIGITAL EQUIPMENT CORPORATION PARTS LIST				QUANTITY / VARIATION										NOTES:			
MADE BY L. METZGER DATE 10/10/75		CHECKED H. DARAKJIAN DATE 23 FEB 76															
ENG R.E. LAWSON DATE 23 MAR 76		PROD C.E. POWELL DATE 23 MAR 76															
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	REF													REF DESIGNATION
	D-UA-M7706-0-0		DRILL & ETCH DRAWING	REF													
1	D-CS-M7706-0-1		INTERFACE & TIMING (C.S.)	REF													
2	D-AH-M7706-0-5		ASSY/DRILLING HOLE LAYOUT	REF													
3	B-MH-M7706-0-6		MODULE ECO HISTORY	REF													
4		5011609	ETCHED CIRCUIT BOARD	1													
5		1001610-00	CAP .01UF 50V CER	62													C1 THRU C57, C63 THRU C67
6		1012084-01	CAP 8UF 25V 10%	5													C58 THRU C62
7		1112689-00	DIODE LED	1													D1
8		1105275-00	DIODE D672	1													D2
9		1301424-00	RES 680 1/4W 5% CC	1													R9
10		1300295-00	RES 330 1/4W 5% CC	2													R6, R14
11		1300365-00	RES 1K 1/4W 5% CC	5													R1, R2, R3, R12, R13
12		1302941-00	RES 14.7K 1/4W 1% MF	1													R5
13		1301401-00	RES 750 1/4W 5% CC	2													R7, R15
14		1304838-00	RES 43K 1/4W 5% CC	1													R10
15		1302391-00	RES 20K 1/4W 5% CC	1													R4
16		1302388-00	RES 2K 1/4W 5% CC	2													R8, R11
17		1905547-00	IC 7474	13													E2, E5, E8, E11, E16, E20, E22, E24, E27, E28, E31, E33, E43
18		1905575-00	IC 7400	4													E25, E37, E41, E47
19		1905576-00	IC 7410	2													E29, E50

E.C.O. NO.
0001
0002
0003
0004
0005

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TITLE
INTERFACE & TIMING

ASSY NO.
D-UA-M7706-0-0

SIZE
B

CODE
PL

NUMBER
M7706-0-0

REV.
H

SHEET 1 OF 2

INSERTION PARTS LIST DATA BASE REV

DIGITAL EQUIPMENT CORPORATION PARTS LIST

ETCH REV D

MADE BY DATE	L. METZGER 10/10/75	CHECKED DATE	H. DARAKJIAN 23 FEB 76	SECTION
ENG DATE	R.E. LAWSON 23 MAR 76	PROD DATE	C.E. POWELL 23 MAR 76	ISSUED SECTION

QUANTITY / VARIATION

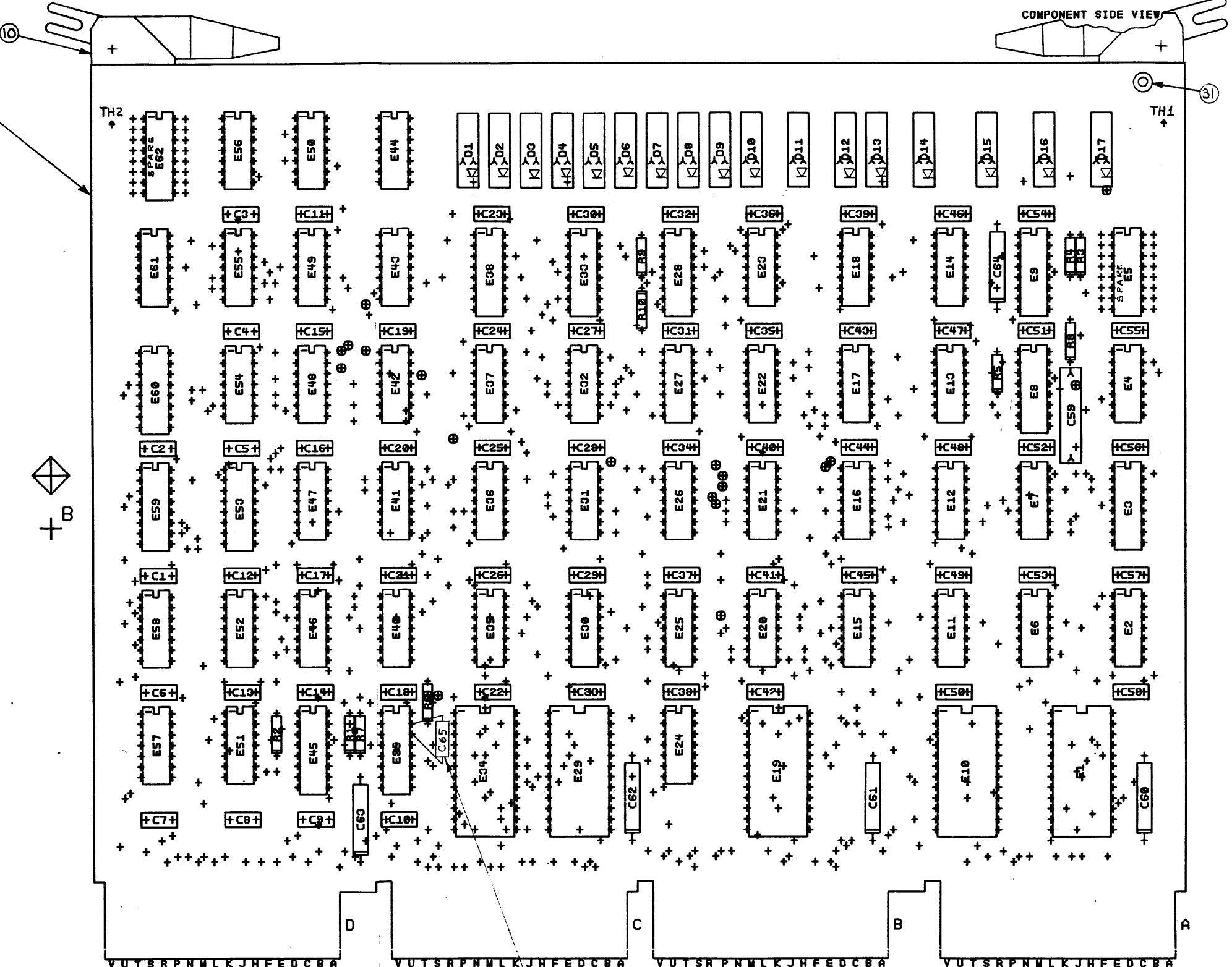
NOTES:

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY	VARIATION	REF DESIGNATION
20		1905577-00	IC 7420	2		E6, E21
21		1905578-00	IC 7430	1		E12
22		1909054-00	IC 7493	1		E17
23		1909686-00	IC 7404	3		E13, E45, E52
24		1909701-00	IC 74154	1		E39
25		1910011-00	IC 7486	2		E32, E51
26		1910153-00	IC 74150	2		E23, E34
27		1910155-00	IC 7408	5		E3, E15, E19, E26, E46
28		1910268-00	IC 75107B	7		E7, E9, E14, E18, E35, E36, E49
29		1910436-00	IC74123	2		E10, E48
30		1911341-00	IC 75113	5		E1, E4, E40, E42, E44
31		1213113-01	HANDLE QUAD BOARD	1		
32		7413826-1	HANDLE ASSY QUAD BOARD (RIGHT)	1		
33		9000024-01	EYELET	8		
34		9105740-55	WIRE #30 AWG GRN	A/R		
35		1911324-00	IC 7414	1		

<p>E.C.O. NO.</p>	<p>TITLE INTERFACE & TIMING</p>	<p>ASSY NO. D-UA-M7706-0-0</p>	<p>SIZE B</p>	<p>CODE PL</p>	<p>NUMBER M7706-0-0</p>	<p>REV. H</p>
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COMPONENT SIDE VIEW



D
C
B
A

D
C
B
A

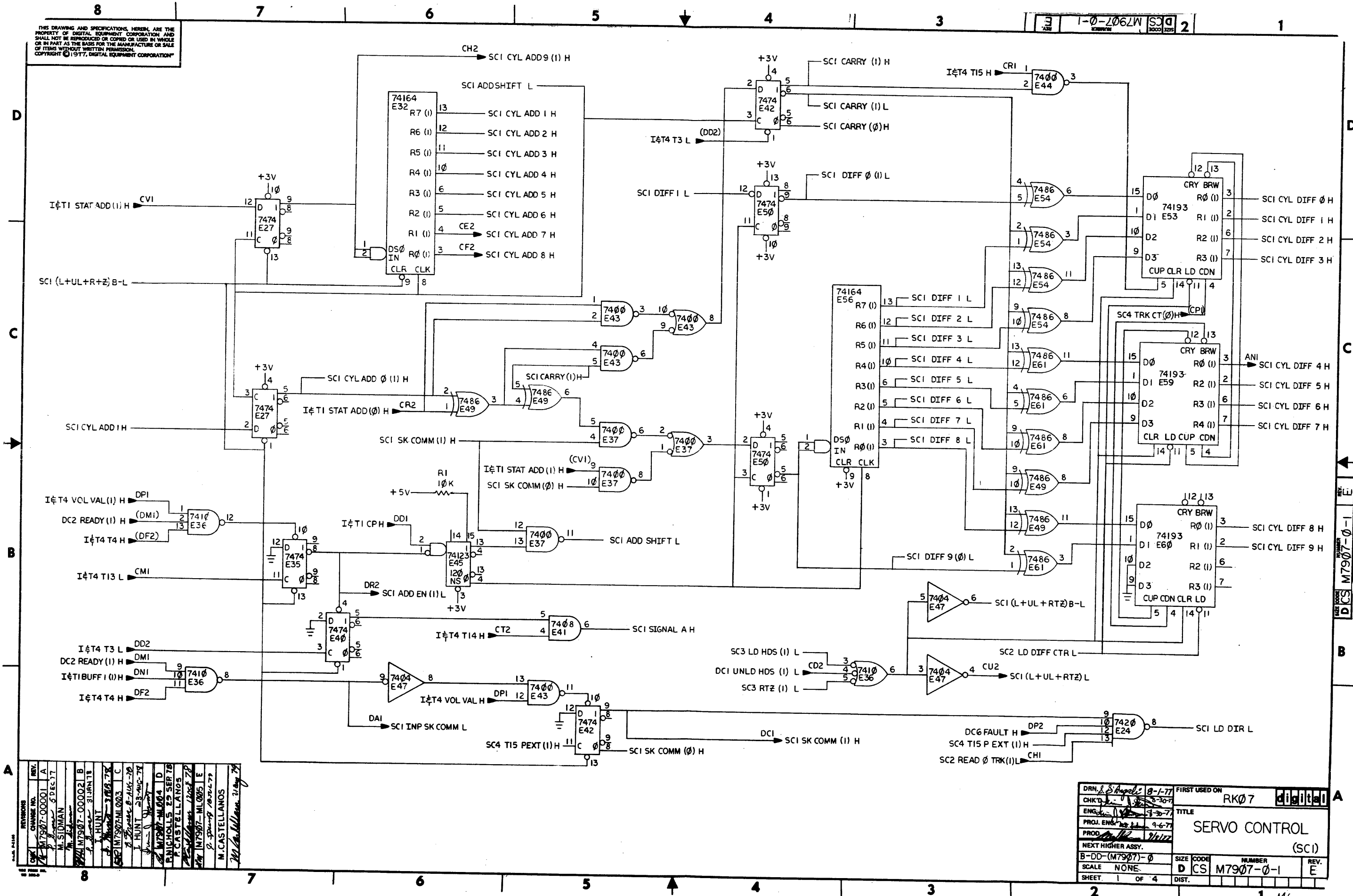
NOTES:

CHK	CHANGE NO	REV	REVISION	DATE

ETCH REV. B-PI
P.C. DESIGN DATA BRSE REV. B

SIGNATURES	DATE	TITLE
DRN. P. NICHOLLS	5-12-78	digital
CHK'D. <i>[Signature]</i>	5-30-78	
ENG. <i>[Signature]</i>	10-12-78	
PROJ. ENG. <i>[Signature]</i>	10-12-78	
PROD. <i>[Signature]</i>	10-12-78	
SCALE 2X		SIZE CODE
SHT. 1 OF 4		NUMBER
NEXT HIGHER ASSY. B-DD-M7907-0-0		UA M7907-0-0 E

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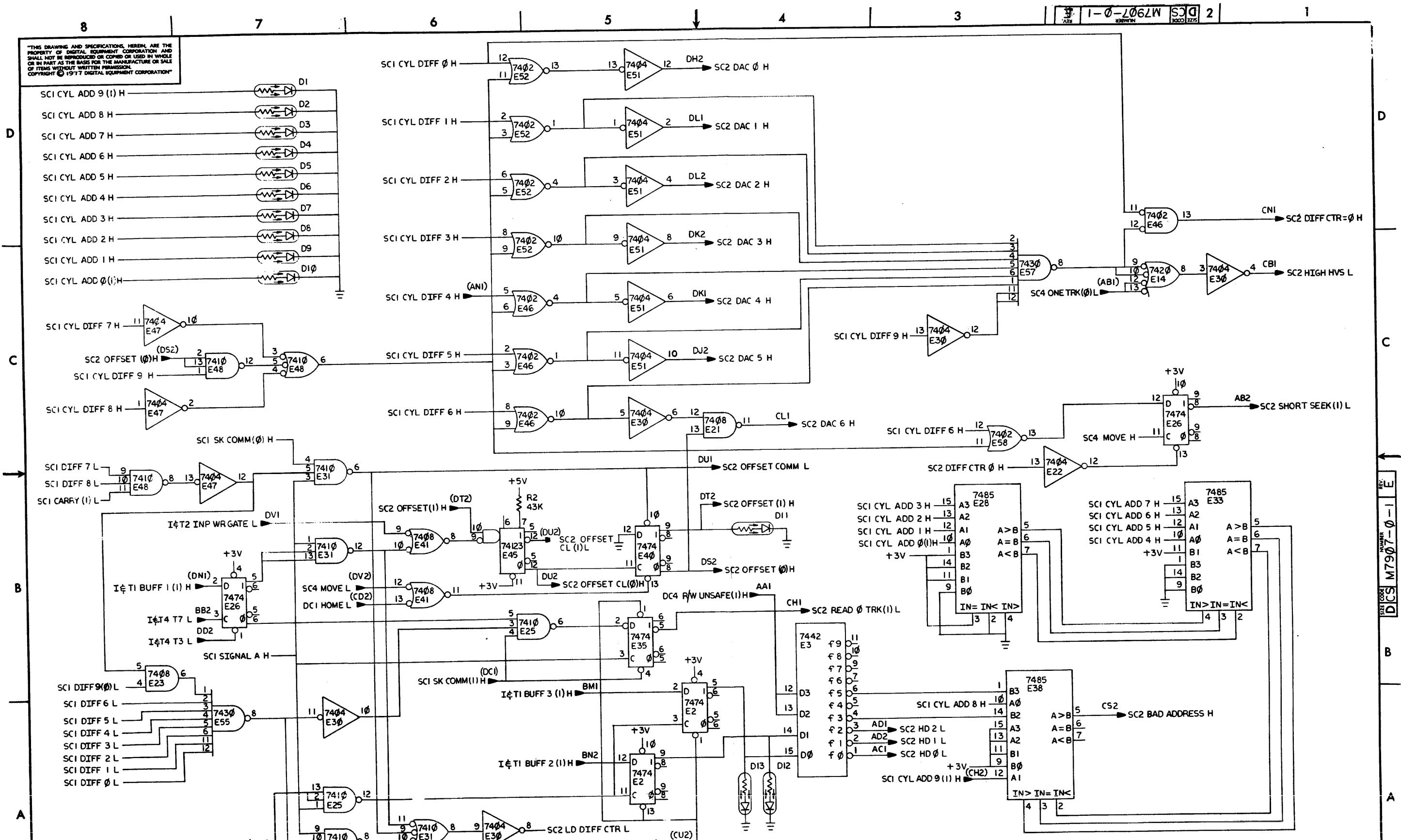


REV.	DATE	BY	CHKD.	DESCRIPTION
1	10-1-77	M. SIDMAN		INITIAL DESIGN
2	10-1-77	M. SIDMAN		REVISED
3	10-1-77	M. SIDMAN		REVISED
4	10-1-77	M. SIDMAN		REVISED
5	10-1-77	M. SIDMAN		REVISED
6	10-1-77	M. SIDMAN		REVISED
7	10-1-77	M. SIDMAN		REVISED
8	10-1-77	M. SIDMAN		REVISED

DRN. <i>J. S. Angeli</i>	8-1-77	FIRST USED ON	RK07	digital
CHK'D. <i>J. S. Angeli</i>	8-30-77	TITLE	SERVO CONTROL (SCI)	
ENG. <i>J. S. Angeli</i>	9-6-77	SCALE	NONE	
PROJ. ENG. <i>J. S. Angeli</i>	9-6-77	SIZE	D	CS
PROD. <i>J. S. Angeli</i>	9/11/77	NUMBER	M7907-0-1	REV. E
NEXT HIGHER ASSY.		SCALE	NONE	
B-DD-(M7907)-0	SCALE	NONE		
SHEET 1 OF 4	DIST.			

REV. E
M7907-0-1
CS

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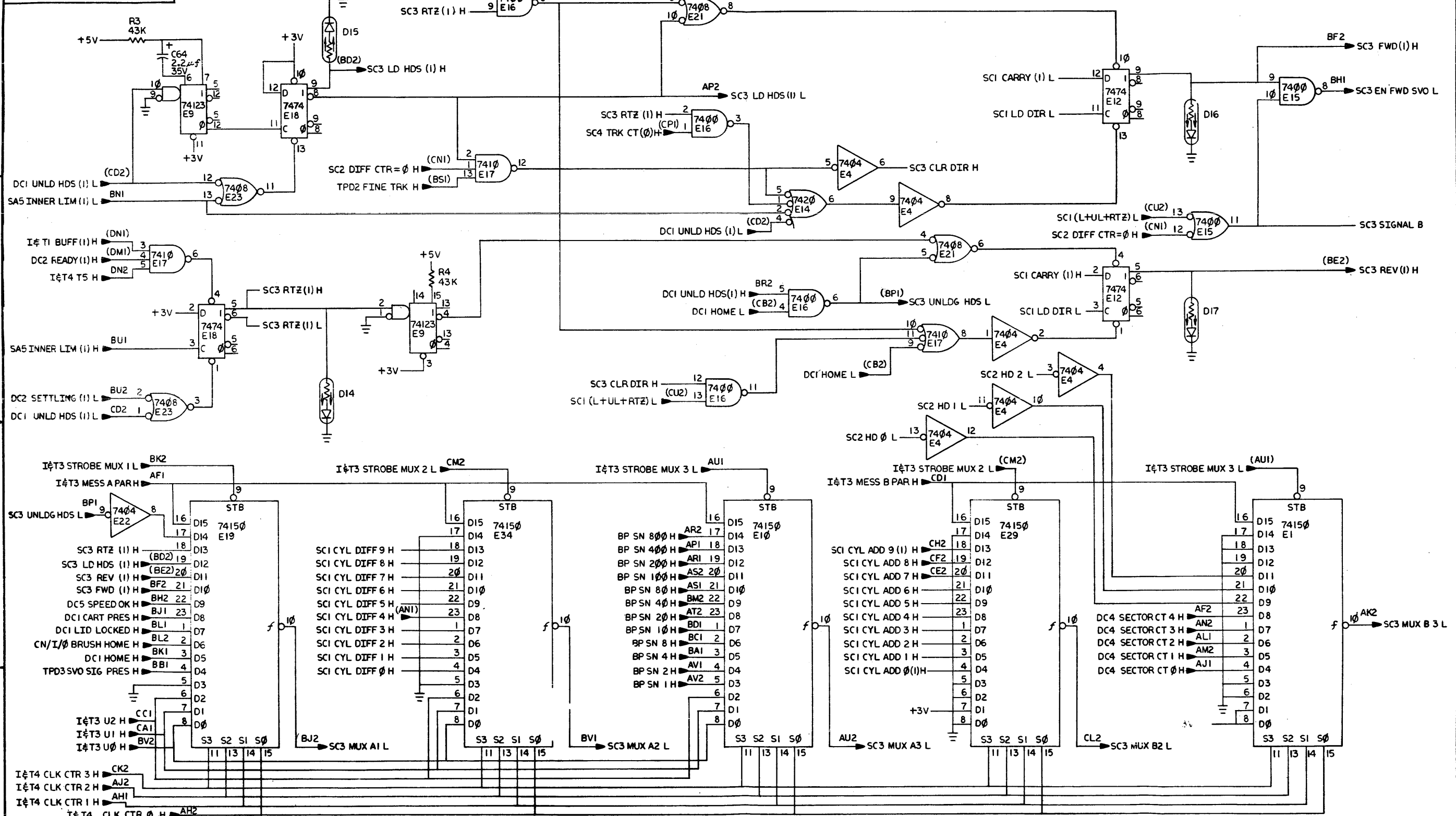


CHK	CHANGE NO.	REV.

TITLE	SCALE	SHEET	OF	DIST.	NUMBER	REV.
SERVO CONTROL (SC2)	NONE	2	4		DCS M7907-0-1	E

D
C
B
A
 DCS M7907-0-1

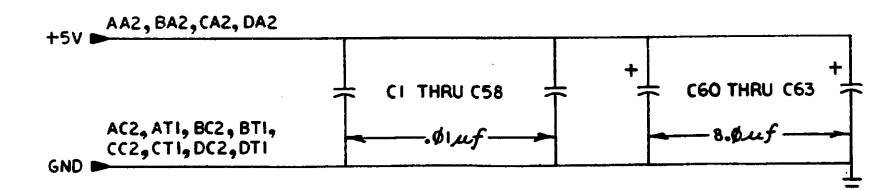
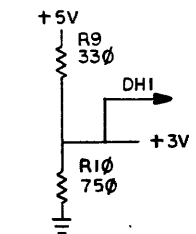
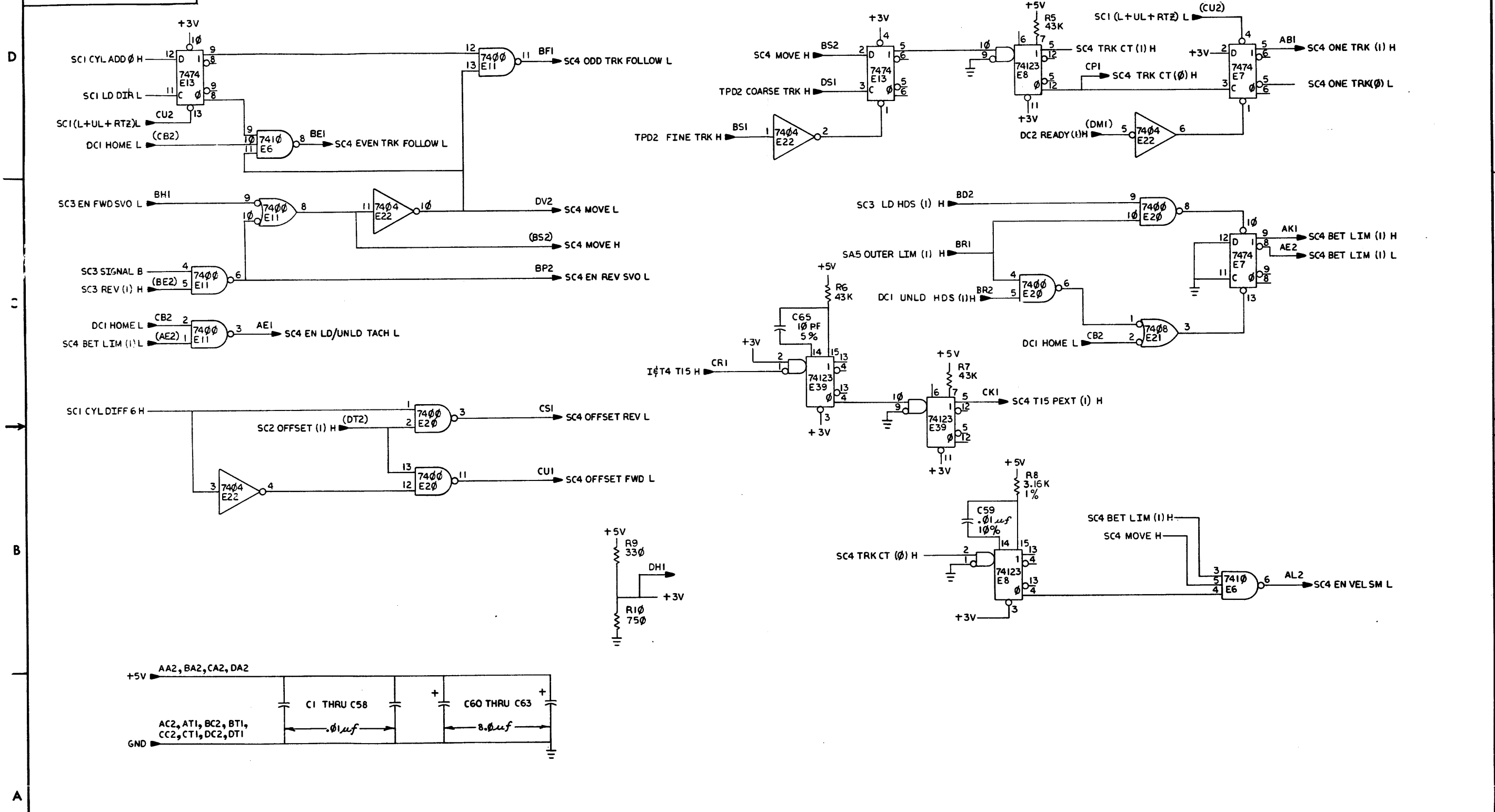
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REVISIONS		
CHK	CHANGE NO.	REV.

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1-0-2062W SCD 2



REVISIONS			TITLE		SIZE CODE	NUMBER	REV.
CHK	CHANGE NO.	REV.	SERVO CONTROL (SC4)		DCS	M7907-0-1	5
			SCALE	NONE	SHEET	4 OF 4	DIST.

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
				00	
1	D-CS-M7907-0-1		CIRCUIT SCHEMATIC	REF	
2	D-UA-M7907-0-0		UNIT ASSY	REF	
3	B-DD-M7907-0-0		DRAWING DIRECTORY	REF	
4	D-MD-5012765-0-0		DRILL & ETCH DWG.	REF	
5		5012765-00	M7907	1	
6		1001610-01	.01 MFD 100V -20+80 Z5U DISC	58	C1-C58
7		1012084-01	8 MFD 25V G% 30D AL EL	4	C60-C63
8		1002431-00	2.2MFD 35V 10% 150S S.TA	1	C64
9		1112689-00	LED .8MCD@16MA VF=5V	17	D1-D17
10		1213113-01	HANDLE,MODULE,	1	
11		1300295-00	330 1/4W 5% CC	1	R9
12		1301401-00	750 1/4W 5% CC	1	R10
13		1303045-00	3.16 K 1/4W 1% RN55D-F 100PPM	1	R8
14		1300479-00	10 K 1/4W 5% CC	1	R1
15		1304838-00	43 K 1/4W 5% CC	6	R2-R7
16		1905547-00	7474 FF-D DUAL,EDGE TRIGG	11	E2,E12,E13,E18,E26,E27,E35,E40, E42,E50,E7
17		1905575-00	7400 NAND GATE-QUAD 2IN	7	E11,E15,E16,E20,E37,E43,E44
18		1905577-00	7420 NAND GATE-DUAL 4INPU	2	E14,E24
19		1905578-00	7430 NAND GATE-SINGLE 8IN	2	E55,E57
20		1909004-00	DEC 7402 NOR GATE-QUAD 2IN	3	E46,E52,E58
21		1909686-00	7404 INVERTER GATE-HEX 1I	5	E4,E22,E30,E47,E51
22		1910011-00	DEC 7486 X-OR GATE-QUAD 2INPU	3	E49,E54,E61
23		1910018-00	DEC 74193 COUNTER,SYNCHR, UP/D	3	E53,E59,E60
24		1910041-00	DEC 74164 SHIFT REG.,8BIT SERI	2	E32,E56
25		1910046-00	7442 DECODER-1 OF 10,BCD	1	E3
26		1910153-00	DEC 74150 MUX 1 OF 16	5	E1,E10,E19,E29,E34
27		1910155-00	DEC 7408 AND GATE,POS,QUAD 2I	3	E21,E23,E41
28		1910436-00	DEC 74123 ONE SHOT-DUAL,RETRIG	4	E8,E9,E39,E45
29		1910224-00	DEC 7485 COMPARATOR-4BIT	3	E28,E33,E38

REVISION HISTORY		BASIC PART NO: M7907		DRN:	R.WALDIE	DATE:	31-JAN-78	D I G I T A L			
ENG:	ECD NUMBER	REV	SECTION A OF A	CHK'D:	C.BEVERLIE	DATE:	31-JAN-78	TITLE PARTS LIST			
W.H	00002	B	SECTION VARIATION INDEX	DES.ENG:	M.D.SIDMAN	DATE:	31-JAN-78	SERVO CONTROL			
E.R	ML003	C	[A] 00					DOCUMENT NUMBER			
C.L	ML004	D	[B]					SIZE	CODE	NUMBER	REV
MC	M7907-ML005	E	[C]					K	PL	M7907-0-DBP	E
			[D]								
			[E]								
			[F]								
			[G]								
			[H]								
			[I]								
			[J]								
			[K]								
			[L]								
			[M]								
			[N]								
				ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #:		
				D-UA-M7907-0-0	OPTION/MODEL RKO7		Z0768E.PLS		13		

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AUTOMATED BY PRTLST.1L(7)

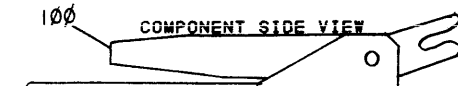
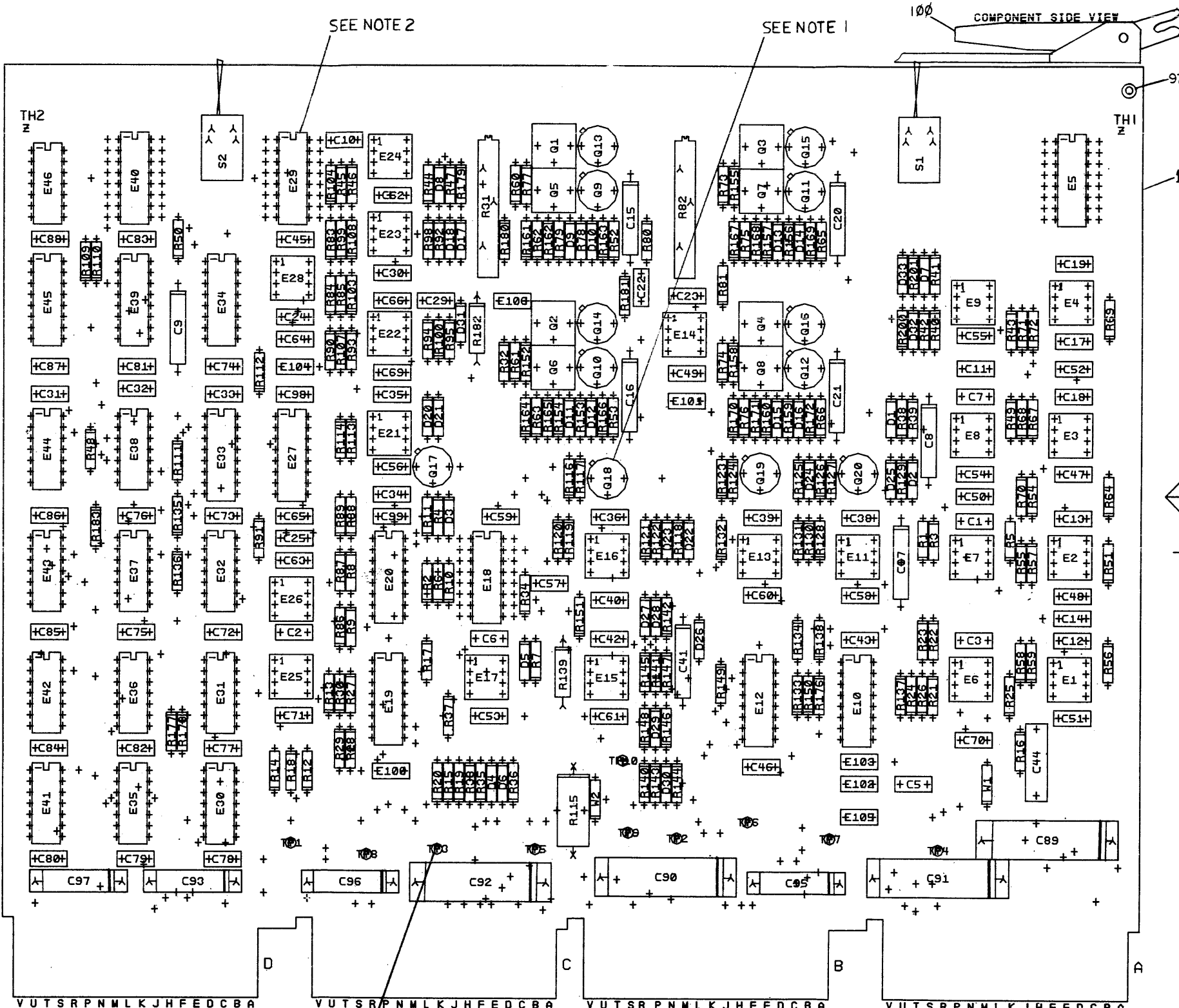
PARTS LIST

SHEET A2 OF A2

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
30	30		9105740-55	*** THIS ITEM IS NOT USED ***	-	
31	31		9000024-01	EYELET, ROLLED FLANGE, .121 OD X	8	
32	32		9107256-11	*** THIS ITEM IS NOT USED ***	-	
33	33		1005784-00	.01 MFD 100V 10% 663VW MYLR	1	C59
34	34		1905576-00	7410 NAND GATE-TRIPLE 3IN	6	E6,E17,E25,E31,E36,E48
35	35		1000006-00	10.0 MMF 100V 5%200PPM DM15S	1	
36	36		9107256-09	TUBING, THIN WALL, .027ID UL	1	C65

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							SERVO CONTROL		K	PL	M7907-0-DBP	E

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NOTES: 1. USE TRANSIPADS (ITEM 95) UNDER Q17 & Q18.
2. SPARE IC LOCATIONS ARE: E5, E18, E29, E40 & E42.

CHANGE NO	REV	
REVISION	H	
AND		
REDRAWN		
M7906-ML7		

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

ETCH REV. D-PI

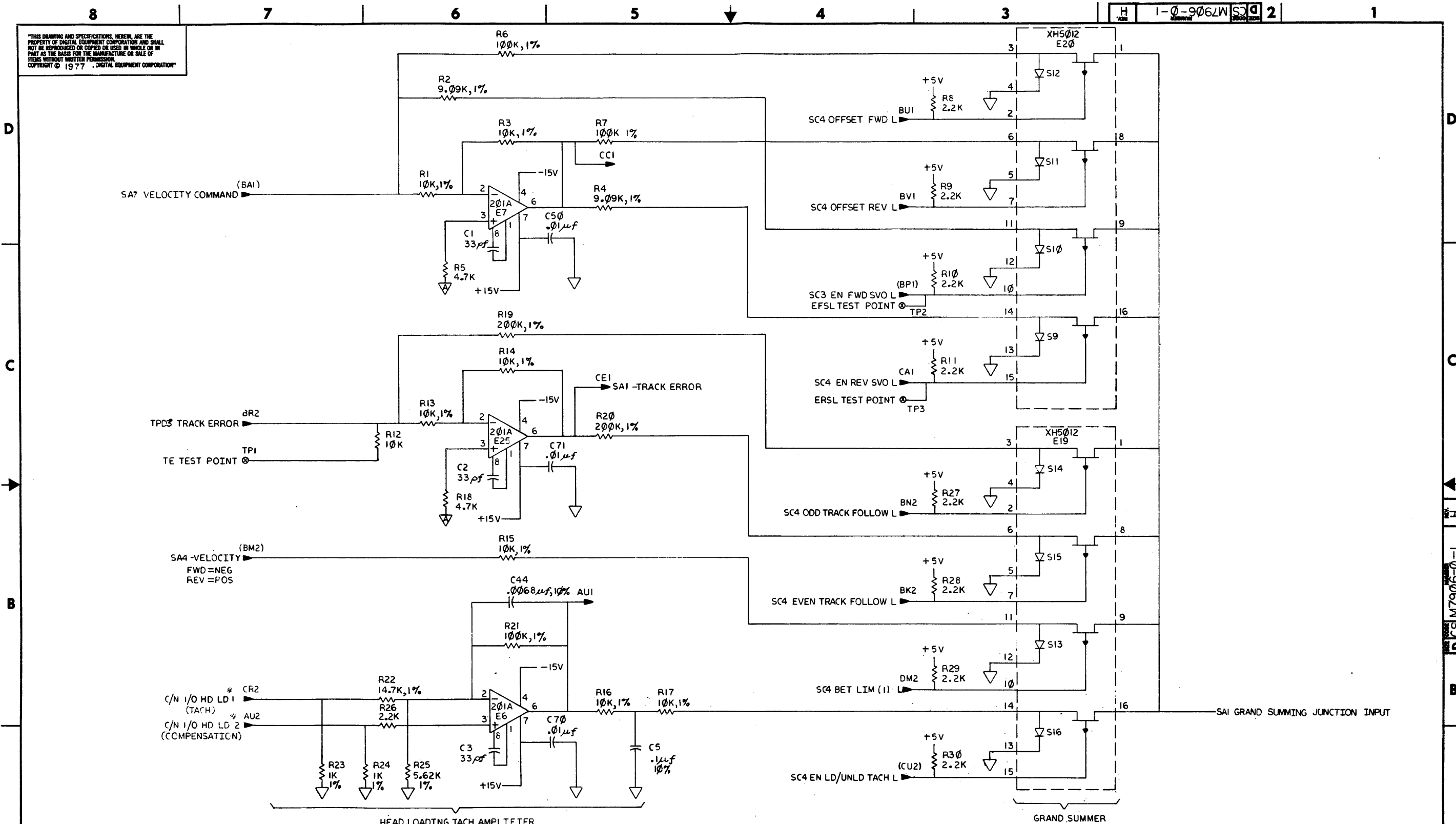
SIGNATURES	DATE	digital
DRN. D POWERS	1-480	
CHK'D.	9-DEC-80	SERVO ANALOG
MECH. ENG.		
PROJ. ENG.		
PROD.		
SCALE 2:1	SIZE CODE	NUMBER
SHT. 1 OF 1	D U A M 7 9 0 6 - 0 - 0	REV
NEXT HIGHER REV. B-DD-M7906-0		H



98 TYP
10 PLC'S

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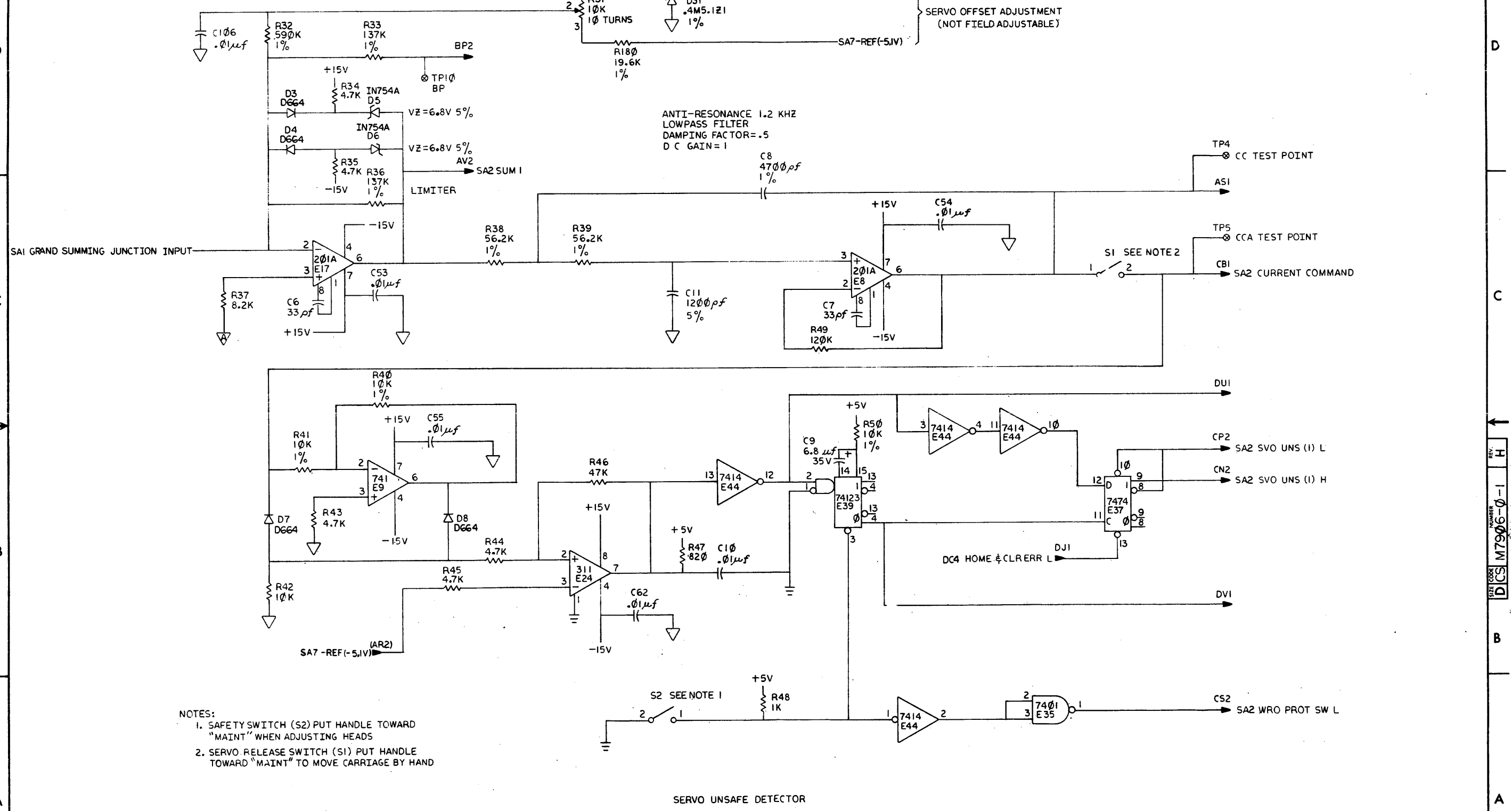
1-0-9062W CS 2



REV.	DATE	BY	CHK'D
A	11/17/76	M. SIDMAN	
B	1/14/77	I. HUNT	
C	2/10/77	J. CARTER	
D	3/1/77	M. CASTELLANOS	
E	4/1/77	M. CASTELLANOS	
F	5/1/77	M. CASTELLANOS	
G	6/1/77	M. CASTELLANOS	
H	7/1/77	M. CASTELLANOS	

DRN. S. Garity	9-15-77	FIRST USED ON	RK07	digital
CHK'D	7-21-77	TITLE	SERVO ANALOG (SAI)	
ENG. J. Hunt	7-21-77	SCALE	D CS M7906-0-1	
PROJ. ENG. M. Sidman	9-21-77	SHEET	OF	7
PROD. J. Hunt	9-21-77	DIST.	1 ML	
NEXT HIGHER ASSY.		SIZE	CODE	NUMBER
B-DD-M7906-0		D	CS	M7906-0-1

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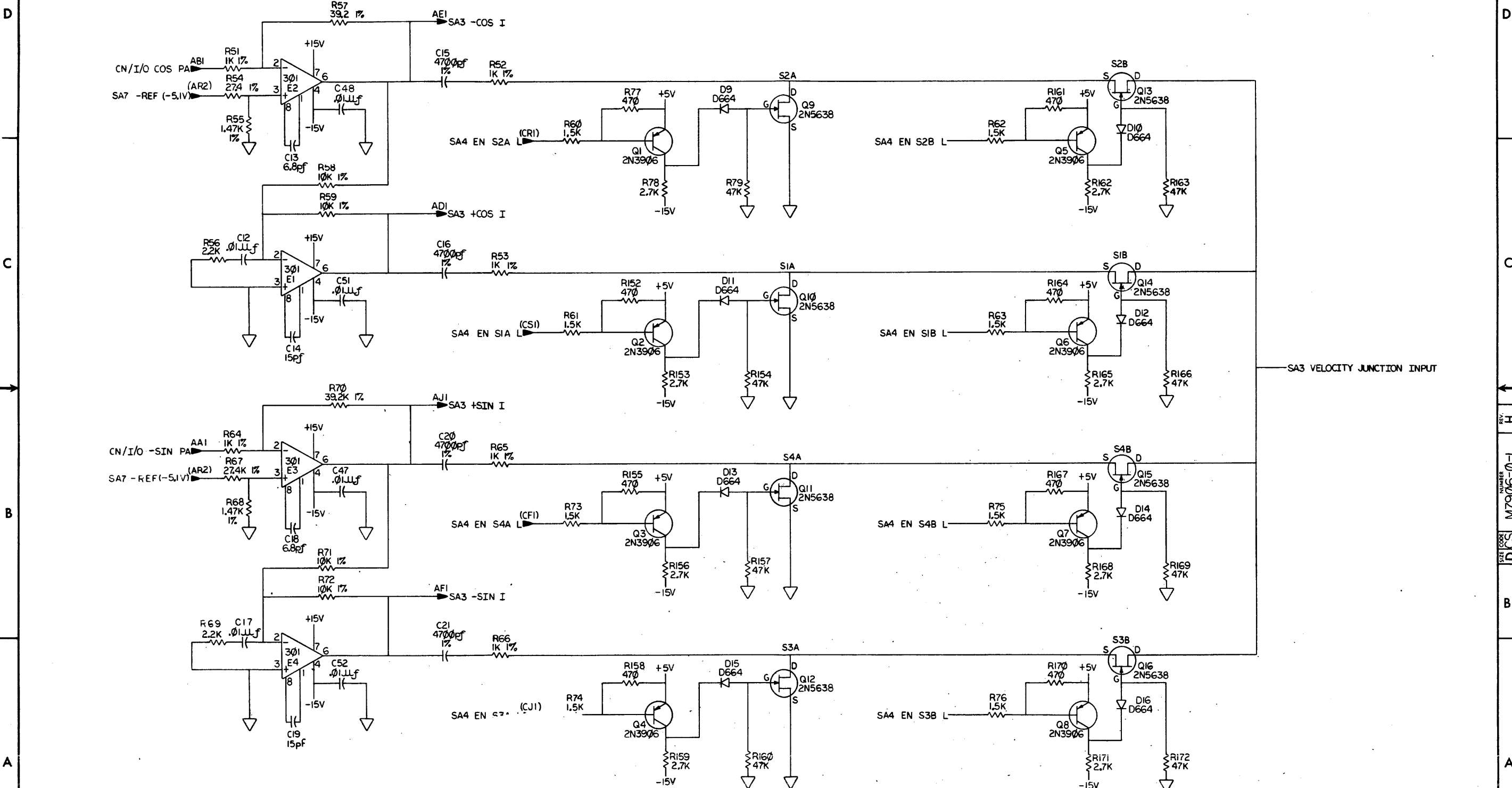


- NOTES:
1. SAFETY SWITCH (S2) PUT HANDLE TOWARD "MAINT" WHEN ADJUSTING HEADS
 2. SERVO RELEASE SWITCH (S1) PUT HANDLE TOWARD "MAINT" TO MOVE CARRIAGE BY HAND

SERVO UNSAFE DETECTOR

REVISIONS		
CHK	CHANGE NO.	REV.

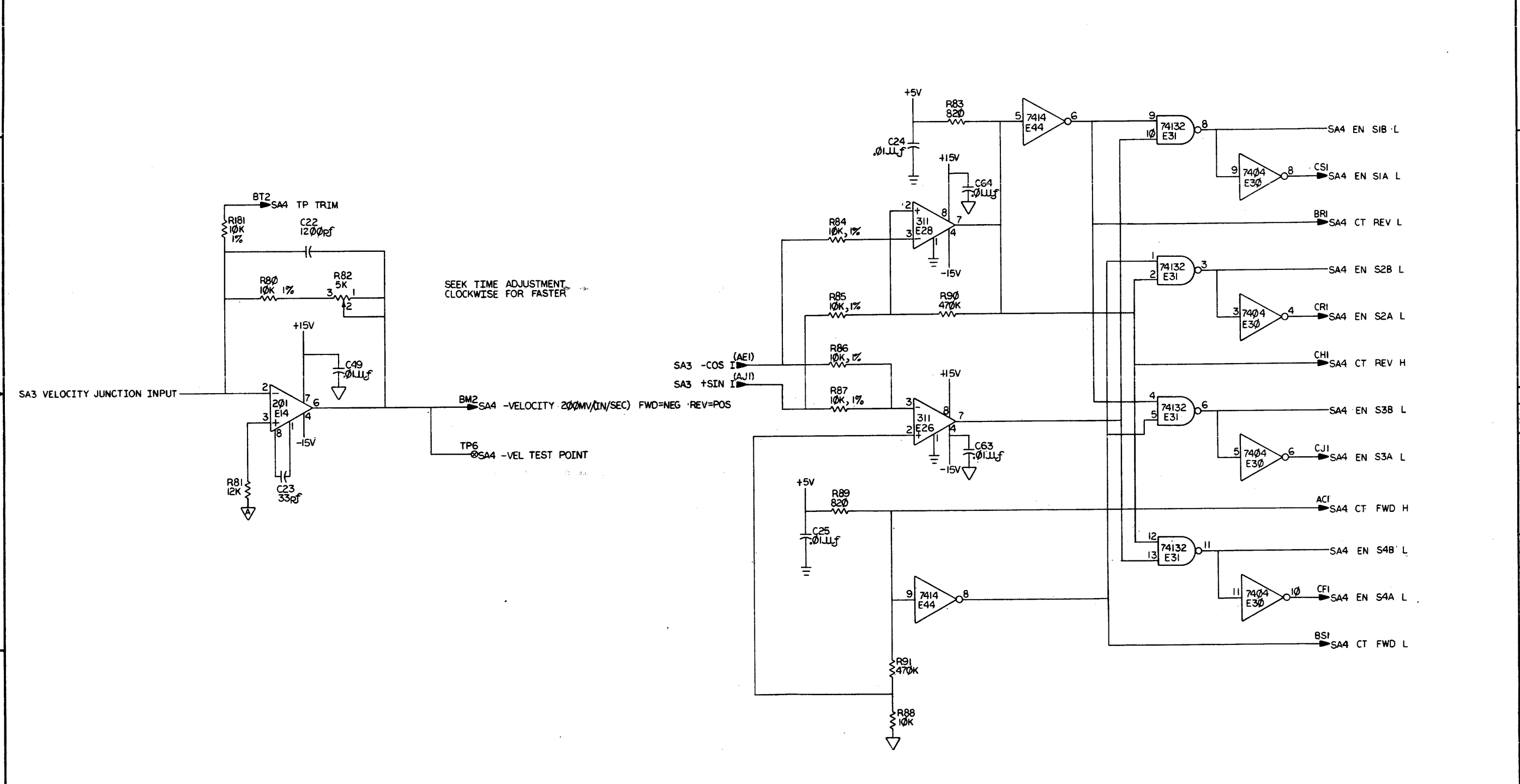
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REVISIONS		
CHK	CHANGE NO.	REV.

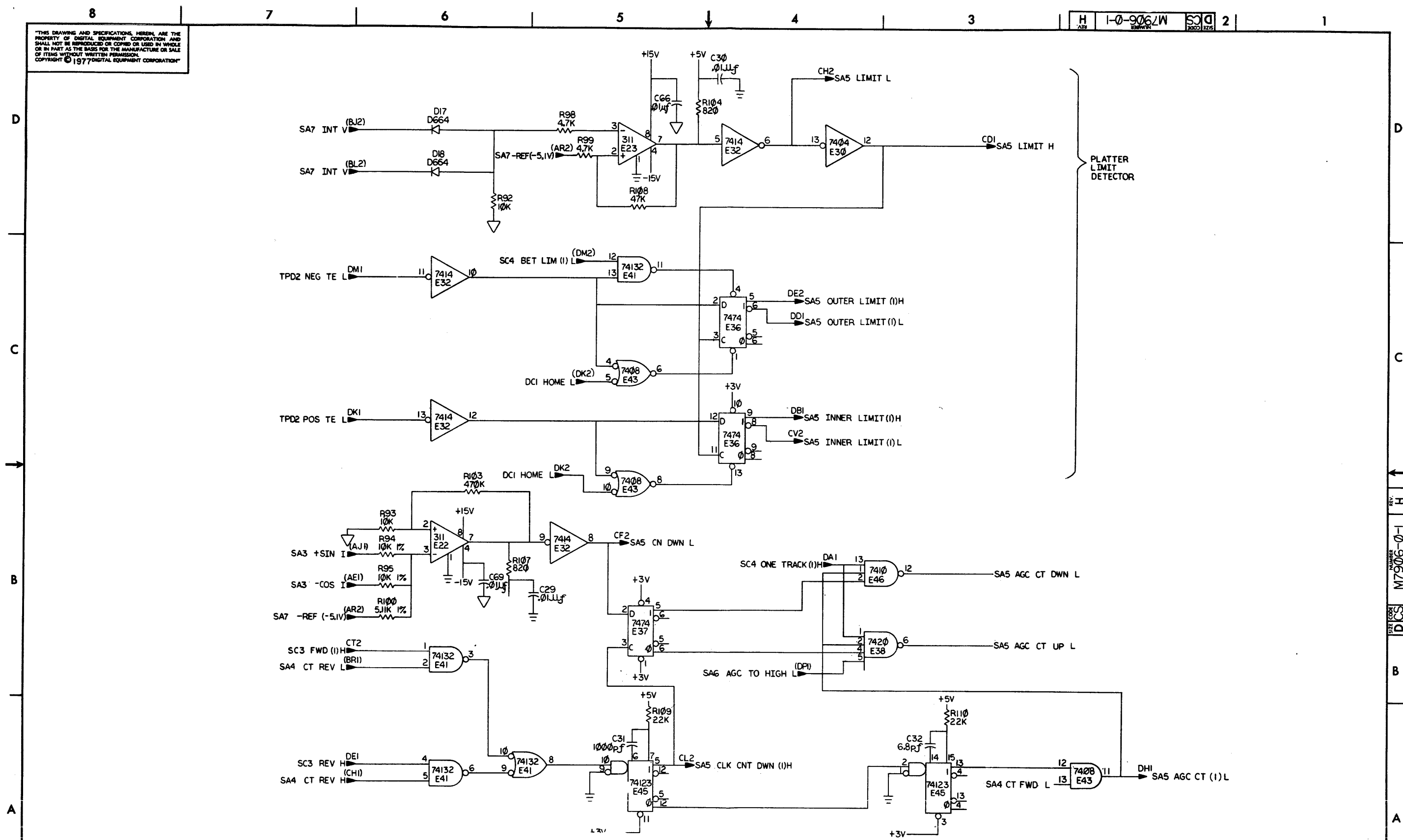
TITLE	SERVO ANALOG (SA3)	SIZE CODE	D/CS	NUMBER	M7906-0-1	REV.	H
SCALE	1/1	SHEET	3	OF	7	DIST.	

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REVISIONS		
CHK	CHANGE NO.	REV.

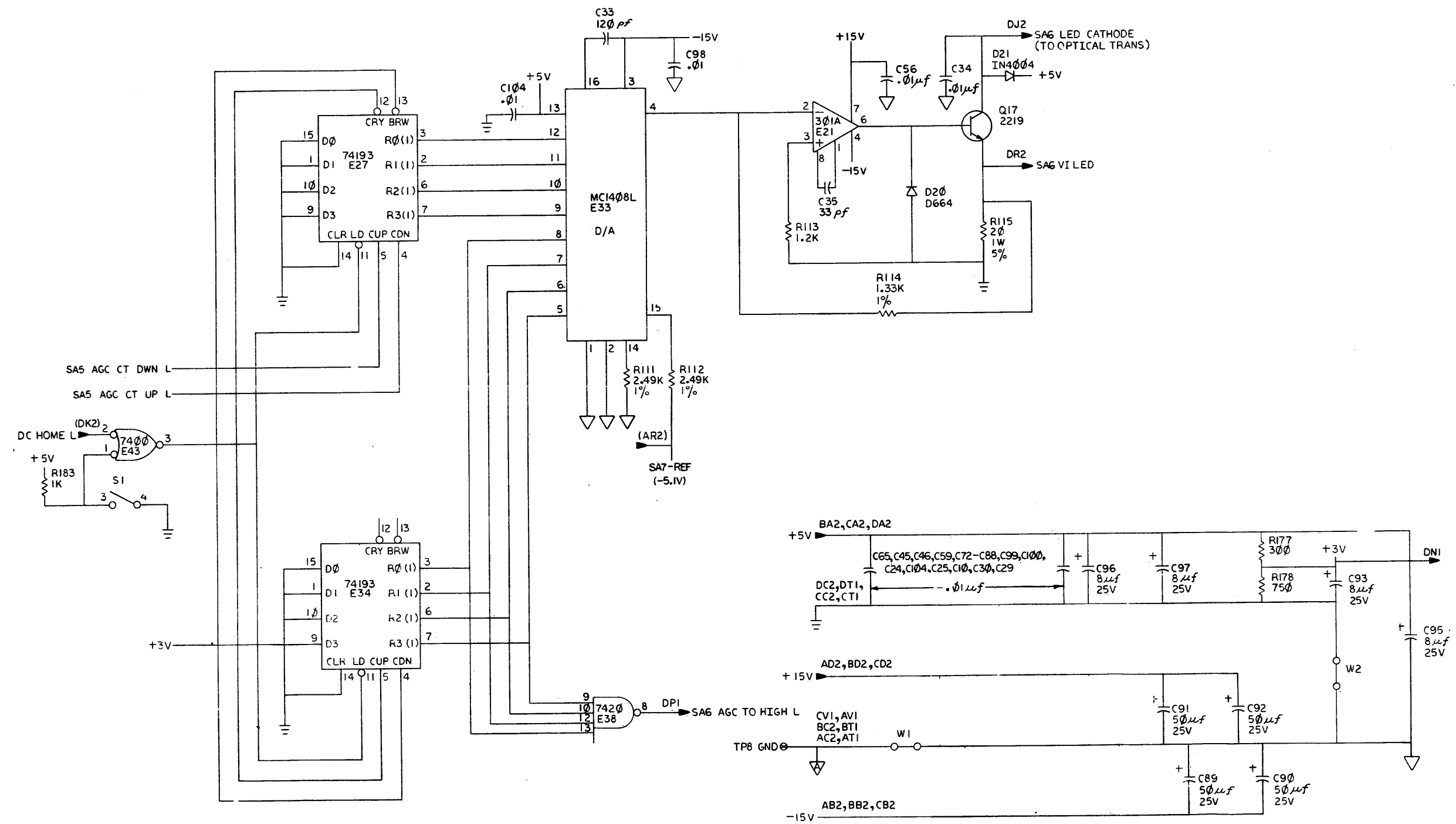
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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SERVO ANALOG (SA5)	SIZE CODE	DCS	NUMBER	M7906-0-1	REV.	H
SCALE	1/1	SHEET	5	OF	7	DIST.	

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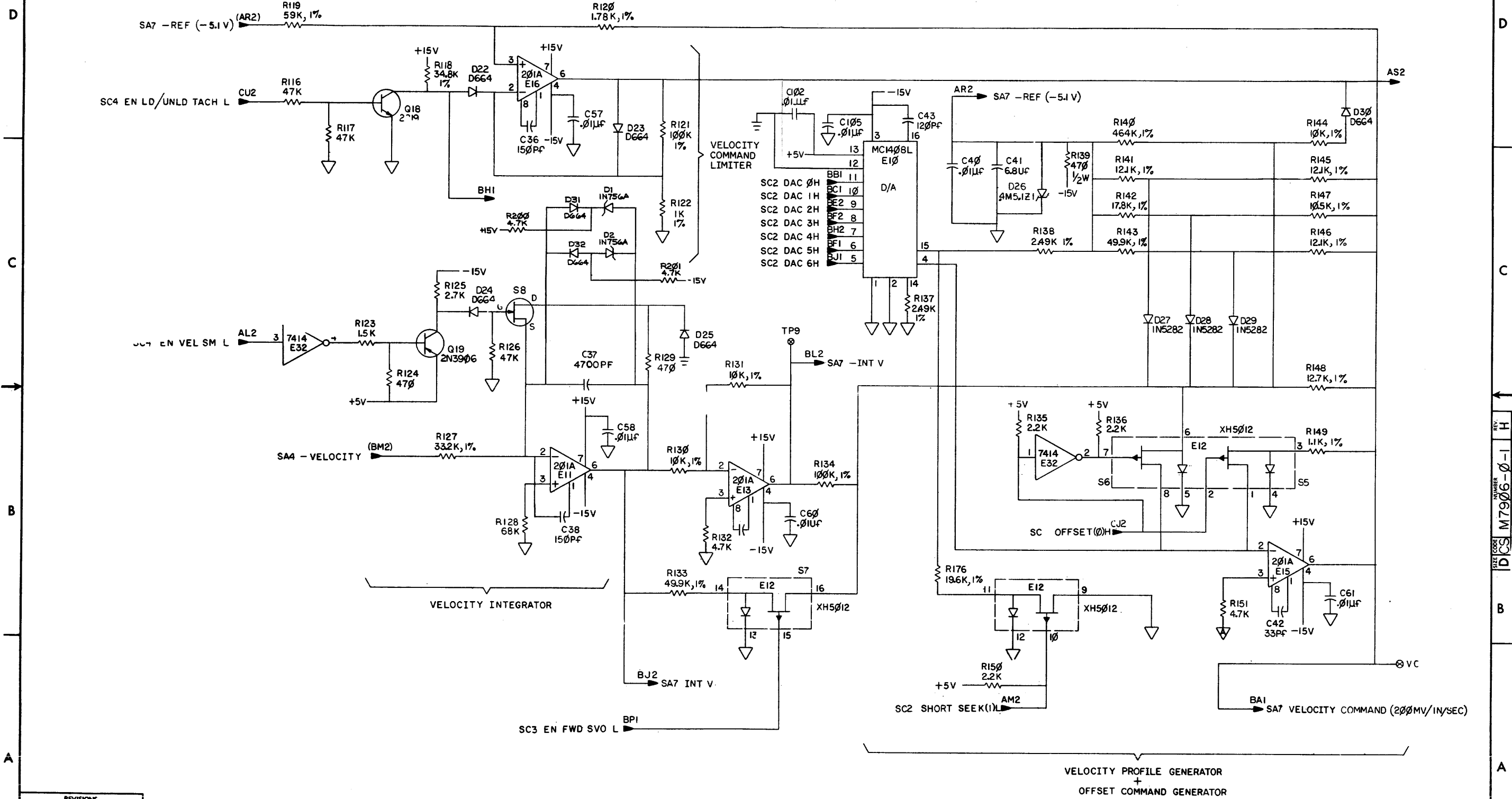
GLASS SCALE LED AGC CIRCUITRY

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SERVO ANALOG (SAG)	SIZE CODE	D CS	NUMBER	M7906-0-1	REV.	H
SCALE		SHEET	6	OF	7	DIST.	

REV. H
NUMBER M7906-0-1
SIZE CODE DCS

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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE CODE	NUMBER	REV.
SERVO ANALOG (SA7)	D CS	M7906-0-1	H
SCALE	SHEET	OF	
	7	7	

REV. H
NUMBER M7906-0-1
SIZE CODE D CS

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
					00	
1	1		5012848-00	M7906	1	
2	2		1000005-00	6.8 MMF 100V 5%200PPM MICA	3	C13,C18,C32
3	3		1000009-00	33.0 MMF 100V 5%200PPM MICA	9	C1-C3,C6,C7,C23,C35,C39,C42
4	4		1000018-00	120.0 MMF 100V 5%200PPM MICA	2	C33,C43
5	5		1000019-00	150.0 MMF 100V 5%200PPM MICA	2	C36,C38
6	6		1000042-00	1000.0 MMF 100V 5%200PPM MICA	1	C31
7	7		1000060-00	6800.0 MMF 200V 10% MYLR	1	C44
8	8		1001610-01	.01 MFD50/100V +80-20% DISC	60	C10,C12,C17,C24,C25,C29,C34,C30, C40,C45-C66,C69-C88,C98-C106
9	9		1010978-36	.1 MFD 50V 10% CER	1	CONT C5
10	10		1002424-00	1200.0 MMF 100V 5%200PPM MICA	2	C11,C22
11	11		1002427-00	15.0 MMF 100V 5%200PPM MICA	2	C14,C19
12	12		1001633-00	*** THIS ITEM IS NOT USED ***	-	
13	13		1005306-00	6.8MFD 35V 10% S.TANT	2	C9,C41
14	14	BLANK			0	
15	15		1009312-00	.0047 MFD 100V 1% MYLR	6	C8,C15,C16,C20,C21,C37
16	16	BLANK			0	
17	17		1012084-01	8 MFD 25V +75-10% AL EL	4	C93,C95-C97
18	18		1001796-00	50 MFD 25V +75-10% AL EL	4	C89-C92
19	19		1100114-00	D 664 QS\75PCB FIV= 25V SP	22	D3,D4,D7-D18,D20,D22-D25,D30, D32,D33
20	20		1105796-00	1N 4004 PIV=400 I= 1A D041 SP	1	CONT D21
21	21		1105873-00	4M5-1AZ1 VZ= 5.1 1% .400W	2	D26,D31
22	22		1109991-00	1N 754A VZ= 6.8 5% .40W	2	D5,D6
23	23		1113003-00	1N 5282 PIV=55 I=500M D035	3	D27-D29
24	24		1300271-00	*** THIS ITEM IS NOT USED ***	-	
25	25		1300488-00	12.0 K .25 W 5.0 % CC	1	R81
26	26		1300315-00	470.0 .50 W 5.0 % CC	2	R139,R182
27	27		1300316-00	470.0 .25 W 5.0 % CC	10	R77,R124,R152,R155,R158,R161, CONT R164,R167,R170,R129

REVISION HISTORY			BASIC PART NO: M7906			DRN: S.KLOTZLE			DATE: 01-NOV-78			DIGITAL				
ENG	ECD NUMBER	REV	SECTION A OF A			CHK'D:	P.BOSSMAN			DATE: 01-NOV-78			TITLE	PARTS LIST		
C.L	M7906-ML004	E	SECTION VARIATION INDEX			DES.ENG:	M.SIDMAN			DATE: 01-NOV-78			SERVO ANALOG			
M.C	M7906-ML006	F	[A] 00													
MC	M7906-ML007	H	[B]													
			[C]													
			[D]													
			[E]													
			[F]			RESP.ENG.: M.SIDMAN			DATE: 01-NOV-78			DOCUMENT NUMBER				
			[G]													
			[H]													
			[I]													
			[J]													
			[K]			MFG.ENG.: M.RAYMOND			DATE: 01-NOV-78			K PL M7906-0-DBP H				
			[L]													
			[M]			ASSEMBLY NUMBER:			TOP DOCUMENT NUMBER:			FILE NAME: EDIT #				
			[N]			D-UA-M7906-0-0			#B-DD-M7906-0			Z0477H.PLS 12				

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					00		
28	28		1300365-00	1.0 K .25 W 5.0 % CC	2		R48,R183
29	29		1303114-00	1.0 K .25 W 1.0 % RN55D-F10	9		R23,R24,R51-R53,R64-R66,R122
30	30		1301320-00	1.20 K .25 W 5.0 % CC	1		R113
31	31		1300391-00	1.50 K .25 W 5.0 % CC	9		R60-R63,R73-R76,R123
32	32		1300411-00	2.0 K .25 W 1.0 % RN55D-F10	1		R125
33	33		1300417-00	2.20 K .25 W 5.0 % CC	14		R8-R11,R26-R30,R56,R69,R135,
						CONT	R136,R150
34	34		1300426-00	2.70 K .25 W 5.0 % CC	8		R78,R153,R156,R159,R162,R165,
						CONT	R168,R171
35	35		1300447-00	4.70 K .25 W 5.0 % CC	13		R5,R18,R34,R35,R43-R45,R98,R99,
						CONT	R132,R151,R200,R201
36	36		1300479-00	10.0 K .25 W 5.0 % CC	5		R12,R42,R88,R92,R93
37	37		1300525-00	59.0 K .25 W 1.0 % RN55D-F10	1		R119
38	38		1300539-00	120.0 K .25 W 5.0 % CC	1		R49
39	39		1301401-00	750.0 .25 W 5.0 % CC	1		R178
40	40		1301775-00	820.0 .25 W 5.0 % CC	5		R47,R83,R89,R104,R107
41	41		1301808-00	22.0 K .25 W 5.0 % CC	2		R109,R110
42	42		1302177-00	47.0 K .25 W 5.0 % CC	13		R46,R79,R108,R116,R117,R126,
						CONT	R154,R157,R160,R163,R166,R169,
						CONT	R172
43	43		1312993-00	20.0 1.0 W 5.0 % CC	1		R115
44	44		1301327-00	68.0 K .25 W 5.0 % CC	1		R128
45	45		1302398-00	470.0 K .25 W 5.0 % CC	3		R90,R91,R103
46	46		1302612-00	1.78 K .25 W 1.0 % RN55D-F10	1		R120
47	47		1302941-00	14.70 K .25 W 1.0 % RN55D-F10	1		R22
48	48		1303043-00	464.0 K .25 W 1.0 % RN55D-F10	1		R140
49	49		1303044-00	100.0 K .25 W 1.0 % RN55D-F10	5		R6,R7,R21,R121,R134
50	50		1303156-00	34.80 K .25 W 1.0 % RN55D-F10	1		R118
51	51		1303179-00	8.20 K .25 W 5.0 % CC	1		R37
52	52		1303312-00	10.0 K .25 W 1.0 % RN55D-F10	25		R1,R3,R13-R17,R40,R41,R50,R58,
						CONT	R59,R71,R72,R80,R84-R87,R94,R95,
						CONT	R130,R131,R144,R181
53	53		1303313-00	12.10 K .25 W 1.0 % RN55D-F10	3		R141,R145,R146
54	54		1304854-00	5.11 K .25 W 1.0 % RN55D-F10	1		R100
55	55		1305108-00	1.47 K .25 W 1.0 % RN55D-F10	2		R55,R68
56	56		1305128-00	5.62 K .25 W 1.0 % RN55D-F10	1		R25
57	57		1305265-00	39.20 K .25 W 1.0 % RN55D-F10	2		R57,R70
58	58		1305336-00	200.0 K .25 W 1.0 % RN55D-F10	2		R19,R20
59	59		1305252-00	68.10 K .25 W 1.0 % RN55D-F10	1		R127
60	60		1305422-00	137.0 K .25 W 1.0 % RN55D-F10	2		R33,R36
61	61		1309143-09	5.0 K .75 W10.0 % POT	1		R82
62	62		1309143-10	10.0 K .75 W10.0 % POT	1		R31
63	63		1309417-00	27.40 K .25 W 1.0 % RN55D-F10	2		R54,R67
64	64		1309419-00	19.60 K .25 W 1.0 % RN55D-F10	3		R176,R179,R180
65	65		1310630-00	1.33 K .25 W 1.0 % RN55D-F10	1		R114
66	66		1305427-00	590.0 K .25 W 1.0 % RN55D-F10	1		R32
67	67		1312626-00	2.49 K .25 W 1.0 % RN55D-F10	4		R111,R112,R137,R138
68	68		1312747-00	56.20 K .25 W 1.0 % RN55D-F10	2		R38,R39

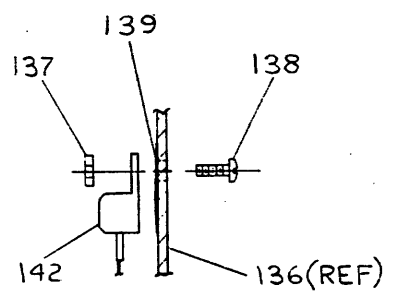
D I G I T A L		TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
		SERVO ANALOG		K	PL	M7906-0-DBP	H

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
69	69		1312987-00	10.50 K .25 W 1.0 % RN55D-F10	1	R147
70	70		1312988-00	49.90 K .25 W 1.0 % RN55D-F10	2	R133,R143
71	71		1312389-00	17.80 K .25 W 1.0 % RN55D-F10	1	R142
72	72		1312990-00	12.70 K .25 W 1.0 % RN55D 10	1	R148
73	73		1301425-00	300.0 .25 W 5.0 % CC	1	R177
74	74		1304855-00	9.09 K .25 W 1.0 % RN55D-F10	2	R2,R4
75	75		1501881-00	DEC2219 NPN 3WC SI 30100	2	Q17,Q18
76	76		1509525-00	2N 3906 PNP 310MW SI 40100 Y	9	Q1-Q8,Q19
77	77		1511095-00	2N 5638 FET 310MW SIN CHNNL	9	Q9-Q16,Q20
78	78		1302645-00	1.10 K .25 W 1.0 % RN55D-F10	1	R149
79	79		1905547-00	7474 FF-D DUAL,EDGE TRIGG	2	E36,E37
80	80		1905576-00	7410 NAND GATE-TRIPLE 3IN	1	E46
81	81		1905577-00	7420 NAND GATE-DUAL 4INPU	1	E35
82	82		1905590-00	DEC 7401 NAND GATE-QUAD 2IN,0	1	E35
83	83		1910282-00	301AN OP AMP	5	E1-E4,E21
84	84		1909686-00	7404 INVERTER GATE-HEX 1I	1	E30
85	85		1910018-00	DEC 74193 COUNTER,SYNCHR. UP/D	2	E27,E34
86	86		1910155-00	DEC 7408 AND GATE,POS.QUAD 2I	1	E43
87	87		1910298-00	741 OP AMP GEN PURP. COM	1	E9
88	88		1910436-00	DEC 74123 ONE SHOT-DUAL,RETRIG	2	E39,E45
89	89		1911143-00	DEC 201A OP AMP	10	E6-E8,E11,E13-E17,E25
90	90		1911324-00	7414 INVERTER,HEX 1IN SCH	2	E32,E44
91	91		1911629-00	1408L8 DAC, 8BIT	2	E10,E33
92	92		1911637-00	74132 NAND GATE-QUAD 2 IN	2	E31,E41
93	93		1911706-00	5012 ANALOG SWITCH,4CHNL	3	E12,E19,E20
94	94		1914140-00	LM 311N VOLT CMPRTR	5	E22-E24,E26,E28
95	95	USE UNDER Q17,Q18	9007200-00	TRANSIPADS #10134	2	
96	96		1210209-00	SW,TOG,SPDT,.01A@6V,ON/ON,SUBMIN	2	S1,S2
97	97		9000024-01	EYELET,ROLLED FLANGE,.121 OD X	8	
98	98		9007791-00	TERM PCB 2POS SOLDER,TURRET	10	TP1-TP10
99	99		9009185-00	JUMPER,WIRE,INSULATED,BLACK B	2	W1,W2
100	100		1213113-01	HANDLE,MODULE,	1	
101	101		9105740-55	*** THIS ITEM IS NOT USED ***	-	
102	102		9107256-11	*** THIS ITEM IS NOT USED ***	-	
103	103		9107295-10	*** THIS ITEM IS NOT USED ***	-	
104	104		1103441-00	1N 756A VZ= 8.2 5% .40W P	2	D1,D2
105	105	D-CS-M7906-0-1		CIRCUIT SCHEMATIC	REF	
106	106	D-UA-M7906-0-0		UNIT ASSEMBLY	REF	
107	107	B-DD-M7906-0-0		DRAWING DIRECTORY	REF	
108	108	D-MD-5012848-0-0		DRILL AND ETCH DRAWING	REF	
109	109	D-EC-5012848-0-0		ETCH CUT DRAWING	REF	

110 NOTE: USED ON:OPTION/MODEL RK07
 111 NOTE: I.C.SPARES-E5,E18,E29,E40,E42

D I G I T A L				TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
				SERVO ANALOG		K	PL	M7906-0-DBP	H

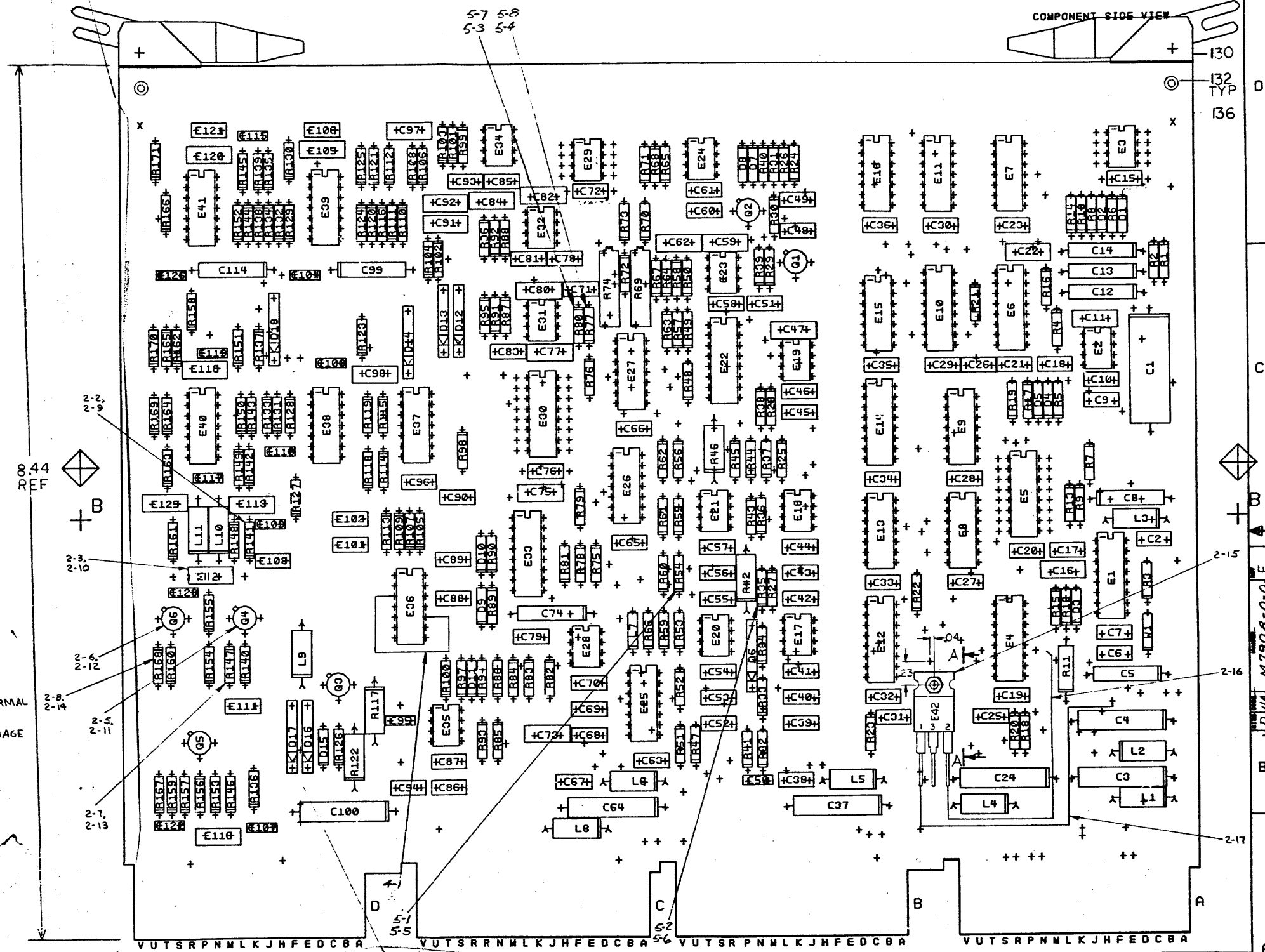
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SECTION A-A SCALE: NONE

REWORK INSTRUCTIONS

- ECO # 2
- ETCH CUTS SIDE 1:
- 2-1. TO RIGHT OF E4-11
- COMPONENT DELETES SIDE 1:
- 2-2. R141 (P/N 13042400)
 - 2-3. C112 (P/N 1000009)
 - 2-4. C124 (P/N 1000009)
 - 2-5. Q4 (P/N 1503051)
 - 2-6. Q6 (P/N 1503051)
 - 2-7. R147 (P/N 1305114)
 - 2-8. R168 (P/N 1305114)
- COMPONENT ADDS SIDE 1:
- 2-9. R141 (P/N 1303114)
 - 2-10. C112 (P/N 1002427) AND RELOCATE AS SHOWN
 - 2-11. Q4 (P/N 1514999)
 - 2-12. Q6 (P/N 1514999)
 - 2-13. R147 (P/N 1304856)
 - 2-14. R168 (P/N 1304856)
 - 2-15. DRILL HOLE .12 DIA (#31 DRILL BIT) INSTALL E42 (P/N 1912536) AS SHOWN. TACK SOLDER PIN 3 TO GROUND ETCH DIRECTLY BELOW LEAD. SOLDER WIRES TO LEADS 1 AND 2 AND ADD SHRINK TUBING (P/N 9107714) TO LEADS 1 AND 2. APPLY THERMAL COMPOUND BEFORE ATTACHING E42 TO BOARD (REFER TO SECTION A-A). NOTE: BE CAREFUL THAT NUT DOES NOT DAMAGE CASE OF E42 WHEN INSERTING.
- WIRE ADDS SIDE 1:
- 2-16. FROM E42-2 TO ETCH RUNNING UNDER R11, TACK SOLDER TO ETCH.
 - 2-17. FROM E42-1 TO PTH ABOVE C4
- ECO # 4
- WIRE ADDS SIDE 1:
- 4-1. BETWEEN E36-3 AND E36-10
- REWORK INSTRUCTIONS CONT ON PG 4.



COMPONENT SIDE VIEW

NOTES:
1. B HOLES .0745 (+.000-.005) MIN/PRO ONLY
2. ADD SOLDERING TO LEADS OF D14, D16, D6, D17, D18.

CHK	CHANGE NO	REV	BY	DATE
✓	1	1	M. CASTELLANOS	7/25/77
✓	2	1	M. CASTELLANOS	7/25/77
✓	3	1	M. CASTELLANOS	7/25/77
✓	4	1	M. CASTELLANOS	7/25/77
✓	5	1	M. CASTELLANOS	7/25/77
✓	6	1	M. CASTELLANOS	7/25/77
✓	7	1	M. CASTELLANOS	7/25/77
✓	8	1	M. CASTELLANOS	7/25/77
✓	9	1	M. CASTELLANOS	7/25/77
✓	10	1	M. CASTELLANOS	7/25/77
✓	11	1	M. CASTELLANOS	7/25/77
✓	12	1	M. CASTELLANOS	7/25/77
✓	13	1	M. CASTELLANOS	7/25/77
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✓	28	1	M. CASTELLANOS	7/25/77
✓	29	1	M. CASTELLANOS	7/25/77
✓	30	1	M. CASTELLANOS	7/25/77

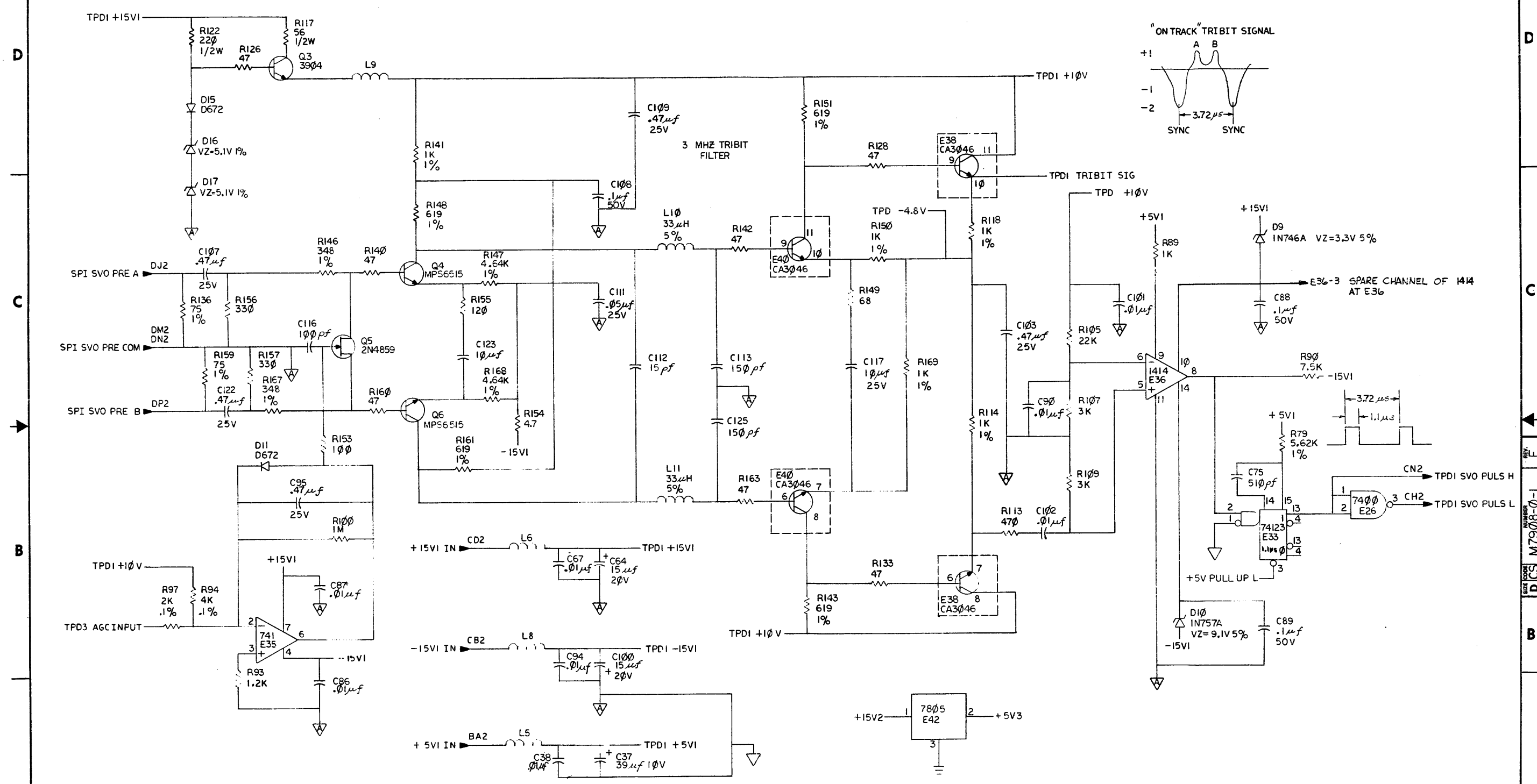
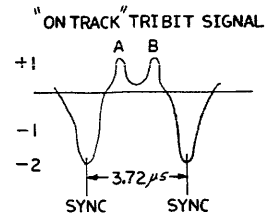
SEE NOTE 2

ETCH REV. B-PI	DATE
P.C. DESIGN DATA BASE REV. B1	

SIGNATURES		DATE	digital
DRN. ST. [Signature]		7/29/77	
CHK'D. [Signature]			
ENG. M. SIDMAN		7/25/77	TITLE TPD/PLO
PROJ. ENG. M. SIDMAN		7/25/77	
PROD.			
SCALE 2/1	SIZE CODE	NUMBER	REV
SHT. OF 4	0 UA	M7908-0-0	1
NEXT HIGHER ASSY. B-DD-M7908-0-0			

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+10 VOLT SUPPLY

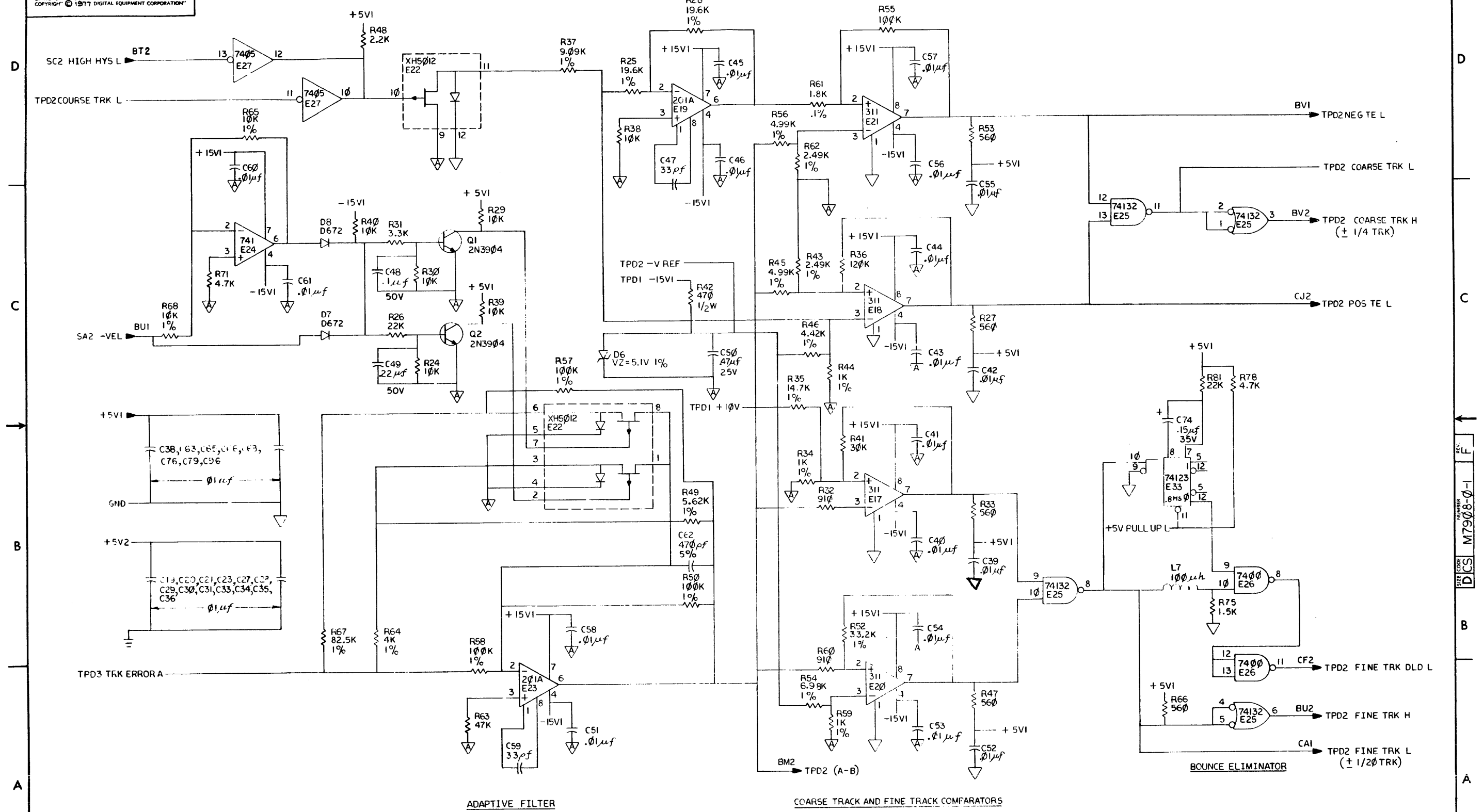


DRN 9.5A-0-7/1/77	FIRST USED ON	digital
CHK'D [Signature]	RK07	
ENG. [Signature]	TITLE	TFD/PLO
PROJ. ENG. [Signature]	NUMBER	M7908-0-1
PROD. [Signature]	REV.	F
NEXT HIGHER ASSY.	SIZE	D
B-DD-M7908-0	CODE	CS
SCALE	DIST.	
SHEET 1 OF 4		

REV.	CHANGE NO.	BY	DATE
A	1	M. SIDMAN	11/17/77
B	1	M. SIDMAN	11/17/77
C	1	M. SIDMAN	11/17/77
D	1	M. SIDMAN	11/17/77
E	1	M. SIDMAN	11/17/77
F	1	M. SIDMAN	11/17/77

DEC 1977

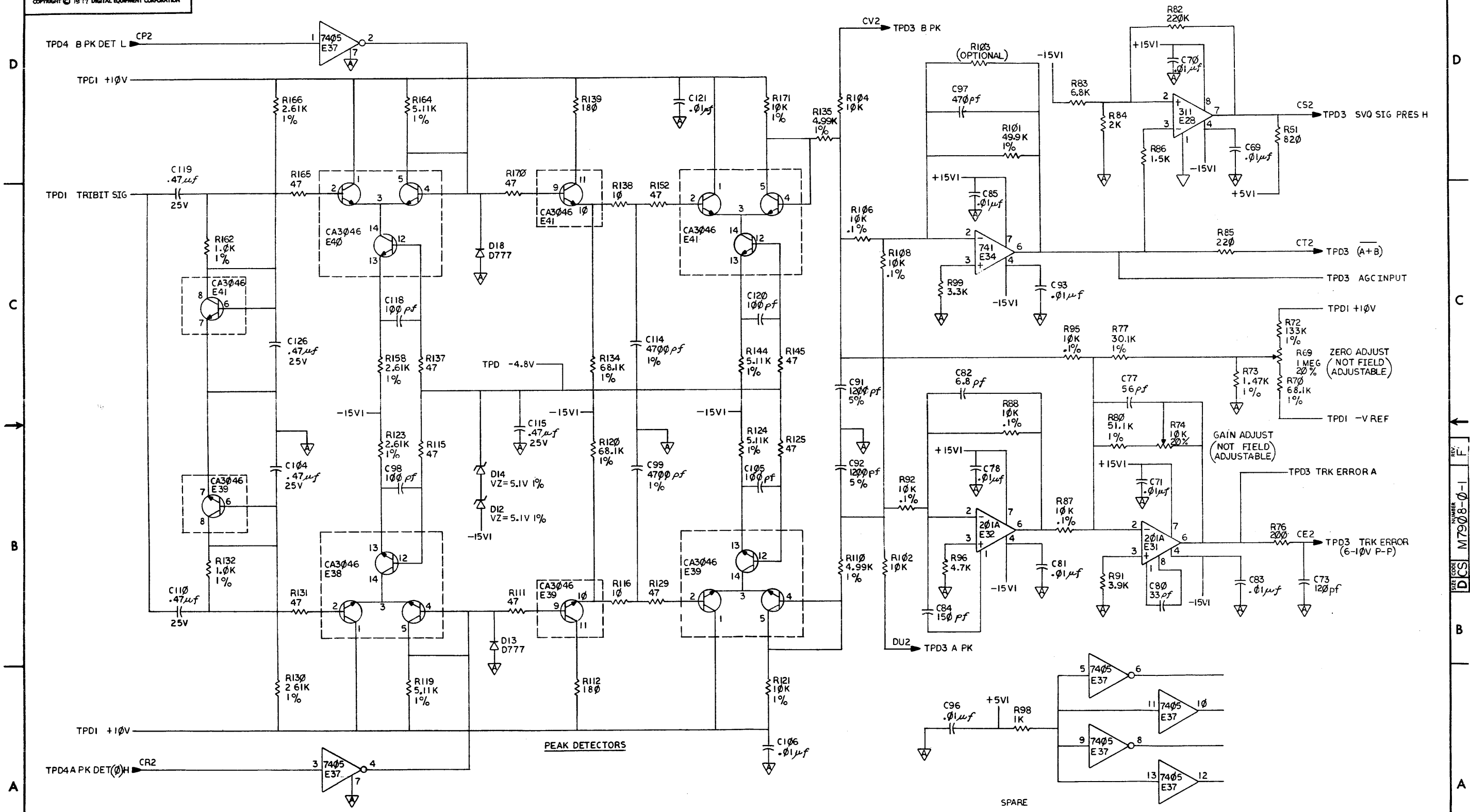
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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	TPD/PLO	SIZE CODE	D CS	NUMBER	M7908-0-1	REV.	F
SCALE		SHEET	2	OF	4	DIST.	

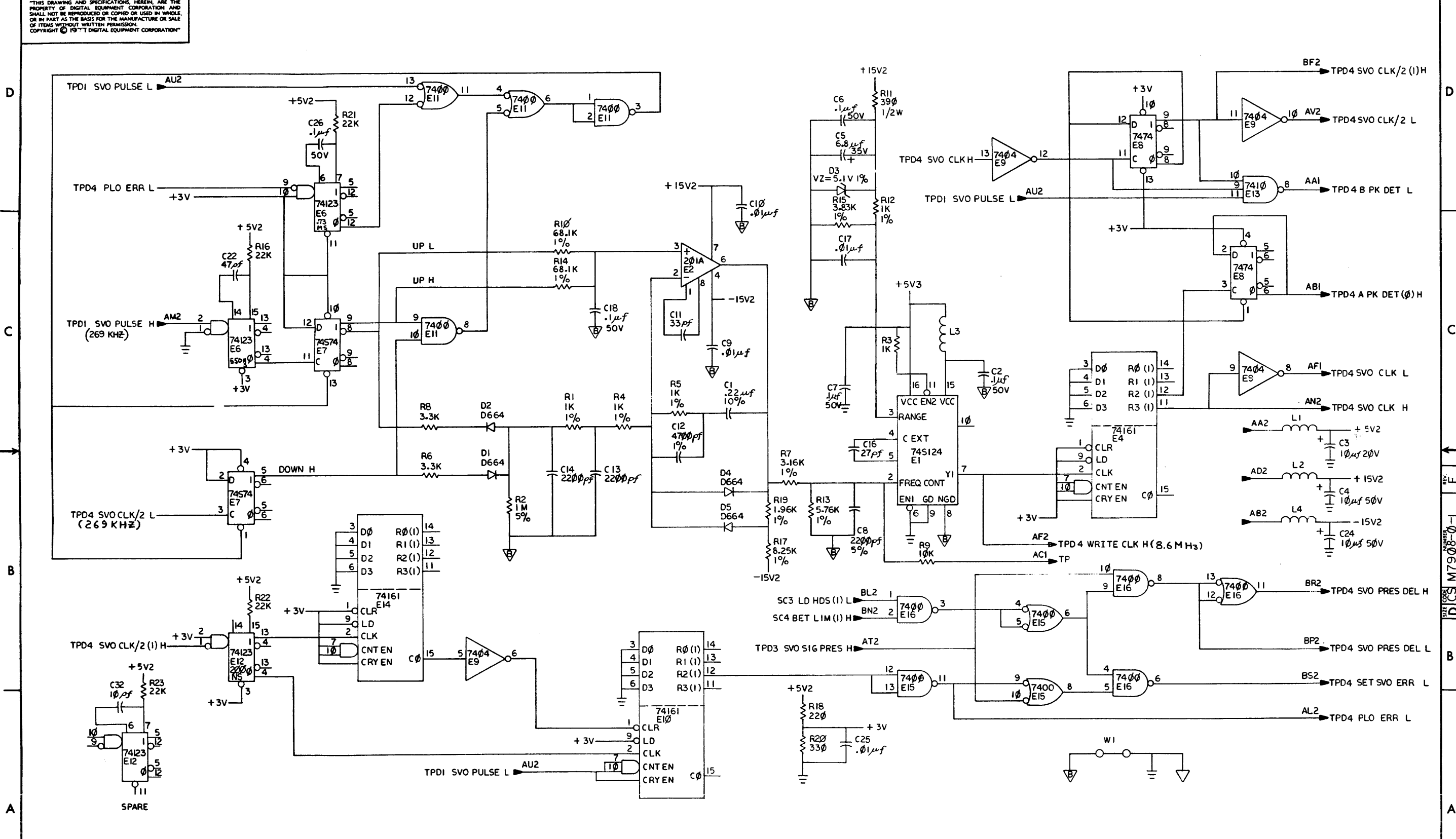
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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	TPD/PLO	SIZE CODE	D CS	NUMBER	M7908-0-1	REV.	F
SCALE	1	SHEET	3	OF	4	DIST.	

REV. F NUMBER M7908-0-1 SIZE CODE DCS



REVISIONS			TITLE		SIZE	CODE	NUMBER	REV.
CHK	CHANGE NO.	REV.	TPD/PLO		D	CS	M7908-0-1	F
			SCALE		SHEET	4	OF	4
					DIST.			

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					00		
1	1	D-CS-M7908-0-1		CIRCUIT SCHEMATIC			REF
2	2	D-UA-M7908-0-0		UNIT ASSEMBLY			REF
3	3	B-DD-M7908-0-0		DWG DIRECTORY			REF
4	4	D-MD-5012933-0-0		DRILL & ETCH DWG			REF
5	5		1000006-00	10.0 MMF 100V 5%200PPM MICA	1		C32
6	6		1000009-00	33.0 MMF 100V 5%200PPM MICA	4		C11,C47,C59,C80
7	7		1000011-00	47.0 MMF 100V 5%200PPM MICA	1		C22
8	8		1000012-00	56.0 MMF 100V 5%200PPM MICA	1		C77
9	9		1000016-00	100.0 MMF 100V 5%200PPM MICA	5		C98,C105,C116,C118,C120
10	10		1000019-00	150.0 MMF 100V 5%200PPM MICA	3		C84,C113,C125
11	11		1000024-00	470.0 MMF 100V 5%200PPM MICA	2		C62,C97
12	12		1000037-00	.22 MFD 100V 10% MYLR	1		C1
13	13		1000076-00	39 MFD 10V 10% S.TANT	1		C37
14	14		1001610-01	.01 MFD50/100V +80-20% DISC	60		C9,C10,C17,C19,C20,C21,C23,C25, CONT C27-C31,C33-C36,C38-C46,C51-C58, CONT C60,C61,C63,C65-C71,C76,C78,C79, CONT C81,C83,C85-C87,C90,C93,C94,C96, CONT C101,C102,C106,C121
15	15		1001739-00	27.0 MMF 100V 5%200PPM MICA	1		C16
16	16		1001774-00	.05 MFD 25V 10% Y5U DISC	1		C111
17	17		1000005-00	6.8 MMF 100V 5%200PPM MICA	1		C82
18	18		1002424-00	1200.0 MMF 100V 5%200PPM MICA	2		C91,C92
19	19		1002476-00	510.0 MMF 100V 5%200PPM MICA	1		C75
20	20		1002667-00	10 MFD 50V 10% S.TANT	2		C4,C24
21	21		1004812-00	15 MFD 20V 10% S.TANT	2		C64,C100
22	22		1004813-00	10 MFD 20V 10% S.TANT	1		C3
23	23		1005306-00	6.8MFD 35V 10% S.TANT	1		C5
24	24		1009312-00	.0047 MFD 100V 1% MYLR	3		C12,C99,C114
25	25		1009957-00	.0022 MFD 100V 10% MYLR	3		C8,C13,C14
26	26		1010279-00	.47 MFD 25V 20% CER	11		C50,C95,C103,C104,C107,C109,

REVISION HISTORY		BASIC PART NO: M7908		DRN:	S MARLOW	DATE: 28-MAR-78	DIGITAL			
ENG!	ECO NUMBER	REV	SECTION A OF A	CHK'D:	P BOSSMAN	DATE: 28-MAR-78	TITLE	PARTS LIST		
D.R!	00003	C	SECTION VARIATION INDEX	CHK'D:	P BOSSMAN	DATE: 28-MAR-78	TPD/PLO			
R.R!	00004	D	[A] 00	DES.ENG:	M SIDMAN	DATE: 28-MAR-78	DOCUMENT NUMBER			
M.C!	M7908-ML005	E	[B]	RESP.ENG.:	M SIDMAN	DATE: 28-MAR-78	SIZE!CODE!	NUMBER	REV	
MC	ML006	F	[C]	MFG.ENG.:	M SIDMAN	DATE: 28-MAR-78	K	PL	M7908-0-DBP	F
			[D]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:	FILE NAME:		EDIT #	
			[E]	D-UA-M7908-0-0		!RK07	Z1560F.PLS		11	
			[F]	"THIS DRAWING AND SPECIFICATIONS HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT (C) 1980. DIGITAL EQUIPMENT CORPORATION"						

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
27	27	1010978-36	.1 MFD 50V 10% CER	9	CONT C110,C115,C119,C122,C126 C2,C6,C7,C18,C26,C48,C88,C89, CONT C108
28	28	1011895-00	.15 MFD 35V 10% S.TANT	1	C74
29	29	1100114-00	D 664 QS\75PCB PIV= 25V SP	4	D1,D2,D4,D5
30	30	1103041-00	DEC 777 QS=12PCB PIV= 8VS	2	D13,D18
31	31	1104860-00	1N 746A VZ= 3.3 5%	1	D9
32	32	1105275-00	D 672 TR= 15NS PIV= 60V SI	4	D7,D8,D11,D15
33	33	1105873-00	4M5-1A21 VZ= 5.1 1% .400W	6	D3,D6,D12,D14,D16,D17
34	34	1109990-00	1N 757A VZ= 9.1 5% .40W P	1	D10
35	35	1300202-00	47.0 .25 W 5.0 % CC	17	R111,R115,R125,R126,R128,R129, CONT R131,R133,R137,R140,R142,R145, CONT R152,R160,R163,R165,R170
36	36	1300219-00	68.0 .25 W 5.0 % CC	1	R149
37	37	1300229-00	100.0 .25 W 5.0 % CC	1	R153
38	38	1300247-00	120.0 .25 W 5.0 % CC	1	R155
39	39	1300271-00	220.0 .25 W 5.0 % CC	2	R18,R85
40	40	1300274-00	220.0 .50 W 5.0 % CC	1	R122
41	41	1300295-00	330.0 .25 W 5.0 % CC	3	R20,R156,R157
42	42	1300308-00	390.0 .50 W 5.0 % CC	1	R11
43	43	1300315-00	470.0 .50 W 5.0 % CC	1	R42
44	44	1300316-00	470.0 .25 W 5.0 % CC	1	R113
45	45	1300365-00	1.0 K .25 W 5.0 % CC	3	R3,R89,R98
46	46	1300391-00	1.50 K .25 W 5.0 % CC	2	R75,R86
47	47	1300432-00	3.0 K .25 W 5.0 % CC	2	R107,R109
48	48	1300439-00	3.30 K .25 W 5.0 % CC	4	R6,R8,R31,R99
49	49	1300444-00	3.90 K .25 W 5.0 % CC	1	R91
50	50	1300447-00	4.70 K .25 W 5.0 % CC	3	R71,R78,R96
51	51	1300479-00	10.0 K .25 W 5.0 % CC	9	R9,R24,R29,R30,R38-R40,R102,R104
52	52	1300539-00	120.0 K .25 W 5.0 % CC	1	R36
53	53	1305420-00	33.20 K .25 W 1.0 % RN55D-F10	1	R52
54	54	1301317-00	10.0 .25 W 5.0 % CC	2	R116,R138
55	55	1301320-00	1.20 K .25 W 5.0 % CC	1	R93
56	56	1301322-00	180.0 .25 W 5.0 % CC	2	R112,R139
57	57	1301422-00	7.50 K .25 W 5.0 % CC	1	R90
58	58	1301423-00	6.80 K .25 W 5.0 % CC	1	R83
59	59	1002427-00	15.0 MMF 100V 5%200PPM MICA	1	C112
60	60	1301775-00	820.0 .25 W 5.0 % CC	1	R51
61	61	1305127-00	4.0 K .25 W 1.0 % RN55D-F10	1	R64
62	62	1301808-00	22.0 K .25 W 5.0 % CC	7	R16,R21-R23,R26,R81,R105
63	63	1301890-00	560.0 .25 W 5.0 % CC	5	R27,R33,R47,R53,R66
64	64	1302092-00	220.0 K .25 W 5.0 % CC	1	R82
65	65	1302177-00	47.0 K .25 W 5.0 % CC	1	R63
66	66	1302388-00	2.0 K .25 W 5.0 % CC	1	R84
67	67	1302394-00	30.0 K .25 W 5.0 % CC	1	R41
68	68	1302466-00	100.0 K .25 W 5.0 % CC	1	R55
69	69	1305354-00	4.0 K .25 W .10% RN55C-B 5	1	R94
70	70	1302859-00	5.76 K .25 W 1.0 % RN55D-F10	1	R13

D	I	G	I	T	A	L	TITLE	TPD/PLO	SECTION A	OF A	SIZE	CODE	DOCUMENT NUMBER	REV
												K PL	M7908-0-DBP	F

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
				00	
71	71	1311522-00	200.0 .25 W 5.0 % CC	1	R76
72	72	1303044-00	100.0 K .25 W 1.0 % RN55D-F10	3	R50,R57,R58
73	73	1300417-00	2.20 K .25 W 5.0 % CC	1	R48
74	74	1312626-00	2.49 K .25 W 1.0 % RN55D-F10	2	R43,R62
75	75	1303045-00	3.16 K .25 W 1.0 % RN55D-F10	1	R7
76	76	1303064-00	75.0 .25 W 1.0 % RN55D-F10	2	R136,R159
77	77	1303114-00	1.0 K .25 W 1.0 % RN55D-F10	14	R1,R4,R5,R12,R34,R44,R59,R114, CONT R118,R132,R150,R162,R169,R141 R123,R130,R158,R166
78	78	1303303-00	2.61 K .25 W 1.0 % RN55D-F10	4	
79	79	1303311-00	*** THIS ITEM IS NOT USED ***	-	
80	80	1303312-00	10.0 K .25 W 1.0 % RN55D-F10	4	R65,R68,R121,R171
81	81	1304833-00	1.96 K .25 W 1.0 % RN55D-F10	1	R19
82	82	1304854-00	5.11 K .25 W 1.0 % RN55D-F10	4	R119,R124,R144,R164
83	83	1304855-00	9.09 K .25 W 1.0 % RN55D-F10	1	R37
84	84	1304858-00	348.0 .25 W 1.0 % RN55D-F10	2	R146,R167
85	85	1305108-00	1.47 K .25 W 1.0 % RN55D-F10	1	R73
86	86	1304856-00	4.64 K .25 W 1.0 % RN55D-F10	2	R147,R168
87	87	1305126-00	619.0 .25 W 1.0 % RN55D-F10	4	R143,R148,R151,R161
88	88	1305128-00	5.62 K .25 W 1.0 % RN55D-F10	2	R49,R79
89	89	1305130-00	133.0 K .25 W 1.0 % RN55D-F10	1	R72
90	90	1305252-00	68.10 K .25 W 1.0 % RN55D-F10	5	R10,R14,R70,R120,R134
91	91	1305324-00	4.99 K .25 W 1.0 % RN55D-F10	4	R45,R56,R110,R135
92	92	1305353-00	2.0 K .25 W .10% RN55C-B 5	1	R97
93	93	1305374-00	910.0 .25 W 5.0 % CC	2	R32,R60
94	94	1305431-00	10.0 K .25 W .10% RN55E-B 2	6	R87,R88,R92,R95,R106,R108
95	95	1309143-18	1.0 M .75 W20.0 % POT	1	R69
96	96	1309143-10	10.0 K .75 W10.0 % POT	1	R74
97	97	1309295-00	1.80 K .25 W .10% RN55E-B 2	1	R61
98	98	1309314-03	4.42 K .50 W 1.0 % RN60D-F10	1	R46
99	99	1309413-00	3.83 K .25 W 1.0 % RN55D-F10	1	R15
100	100	1309419-00	19.60 K .25 W 1.0 % RN55D-F10	2	R25,R28
101	101	1309420-00	8.25 K .25 W 1.0 % RN55D-F10	1	R17
102	102	1309595-00	1.0 M .25 W 5.0 % CC	2	R2,R100
103	103	1309995-00	56.0 .50 W 5.0 % CC	1	R117
104	104	1310636-00	82.50 K .25 W 1.0 % RN55D-F10	1	R67
105	105	1312988-00	49.90 K .25 W 1.0 % RN55D-F10	1	R101
106	106	1000018-00	120.0 MMF 100V 5%200PPM MICA	1	C73
107	107	1514999-00	MPS6515 NPN 350MW SI 25 250	2	Q4,Q6
108	108	1509524-00	2N 3904 NPN 310MW SI 40 40 M	3	Q1-Q3
109	109	1509900-00	2N 4859 FET 360MW SIN CHNHL	1	Q5
110	110	1601759-00	33 UH 5% 300MA	2	L10,L11
111	111	1610662-00	100.0 UH 10% 165MA #DD1 00	1	L7
112	112	1611257-01	CHOKE(CERAMIC BEAD)AXIAL LEAD,ON	8	L1-L6,L8,L9
113	113	1010866-02	10 MFD 25V +50-20% S.TANT	2	C117,C123
114	114	1905547-00	7474 FF-D DUAL,EDGE TRIGG	1	E8
115	115	1905575-00	7400 NAND GATE-QUAD 2IN	4	E11,E15,E16,E26
116	116	1905576-00	7410 NAND GATE-TRIPLE 3IN	1	E13
117	117	1909686-00	7404 INVERTER GATE-HEX 1I	1	E9

DIGITAL	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
	TPD/PLD		K	PL	M7908-0-DBP	F

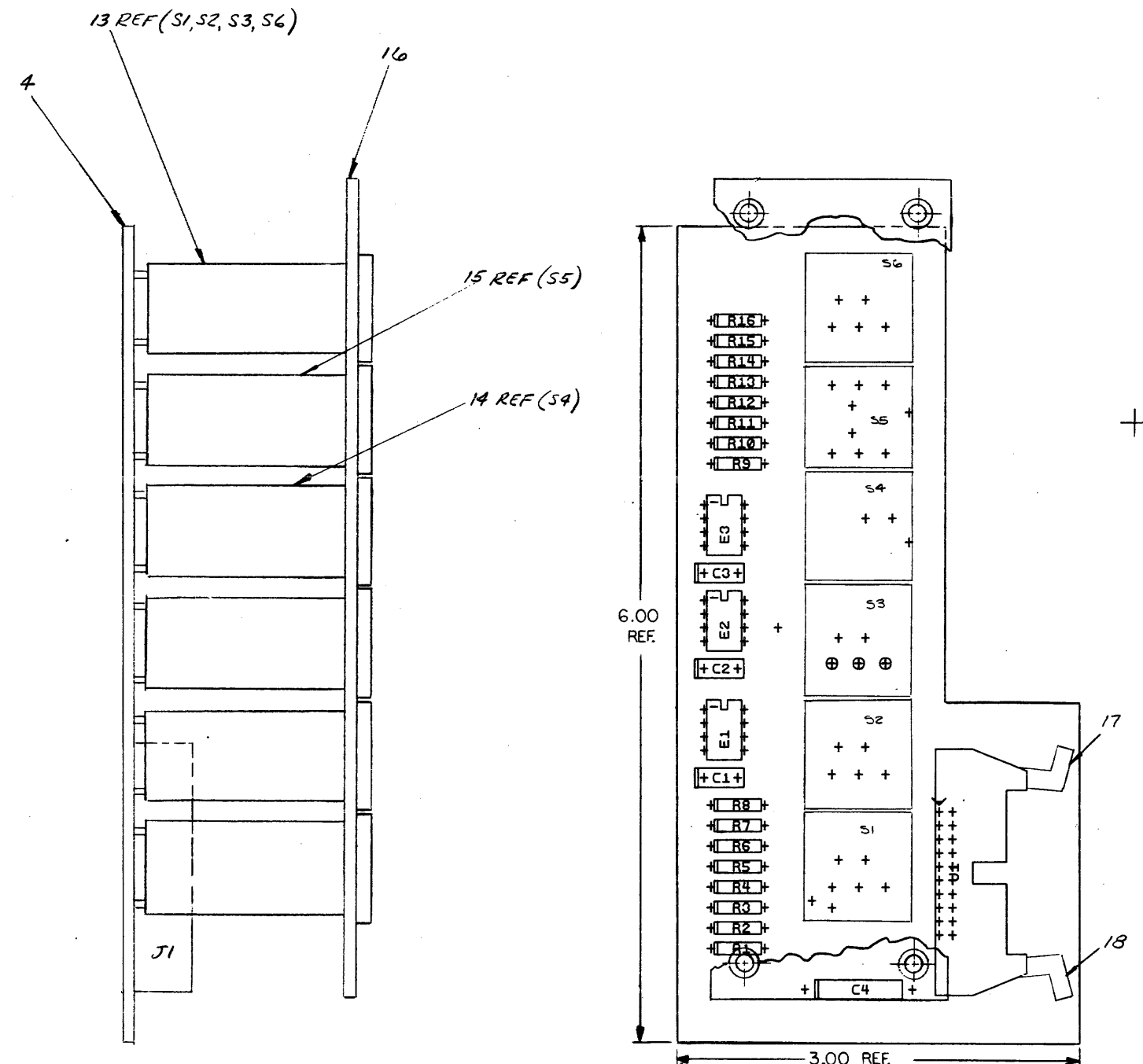
LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
118	118		1909930-00	7405 INVERTER GATE-HEX 1I	2	E27,E37
119	119		1910298-00	741 OP AMP GEN PURP. COM	3	E24,E34,E35
120	120		1910337-00	DEC 1414L VOLT.COMPARATOR,DUAL	1	E36
121	121		1910436-00	DEC 74123 ONE SHOT-DUAL,RETRIG	3	E6,E12,E33
122	122		1910544-00	74S74 FF-D DUAL,EDGE TRIGG	1	E7
123	123		1910650-00	74161 COUNTER,SYNCHR. UP	3	E4,E10,E14
124	124		1911143-00	DEC 201A OP AMP	5	E2,E19,E23,E31,E32
125	125		1911637-00	74132 NAND GATE-QUAD 2 IN	1	E25
126	126		1911706-00	5012 ANALOG SWITCH,4CHNL	1	E22
127	127		1911911-00	DEC 74S124 OSCILLATOR,DUAL VOLT	1	E1
128	128		1913017-00	3046 XSIDOR ARRAY,3 ISOL	4	E38-E41
129	129		1914140-00	LM 311N VOLT CMPRTR	5	E17,E18,E20,E21,E28
130	130		1213113-01	HANDLE,MODULE,	1	
131	131		1305890-00	4.70 .25 W 5.0 % CC	1	R154
132	132		9000024-01	EYELET, ROLLED FLANGE, .121 OD X	8	
133	133		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	1	W1
134	134		1010978-40	.22 MFD 50V 10% CER	1	C49
135	135		9107256-11	TUBING,THIN WALL,.027ID UL	A/R	
136	136		5012933-00	TPD/PLO	1	
137	137		9006557-00	NUT,KEP , 4-40X 1/4 AF	1	
138	138		9008301-01	SCREW,PAN,PHIL 4-40X 1/4 SS	1	
139	139		9008268-00	COMPOUND, THERMAL JOINT	A/R	
140	140		9107714-00	TUBING,SHRINK,0.0941D EXP. UL	A/R	
141	141		9107776-66	WIRE(WRAP)22AWG,IPVC UL1429 BL	A/R	
142	142	SEE NOTE 148	1912536-00	DEC 7805 VOLT REG,FIX +5V	1	E42
143	143		9105740-55	WIRE(WRAP)30AWG UL1423	A/R	
144	144		1303305-00	6.98 K .25 W 1.0 % RN55D-F10	1	R54
145	145		1302941-00	14.70 K .25 W 1.0 % RN55D-F10	1	R35
146	146		1313476-00	51.10 K .25 W 1.0 % RN55D-F10	1	R80
147	147		1311594-00	30.10 K .25 W 1.0 % RN55D-F10	1	R77

148 NOTE: P/N 19-12536-01, IC 7805 IS AN ACCEPTABLE ALTERNATE PART.

DIGITAL				TITLE	SECTION A OF A		SIZE	CODE	DOCUMENT NUMBER	REV
				TPD/PLO			K	PL	M7908-0-DBP	F

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COMPONENT SIDE VIEW



NOTES:

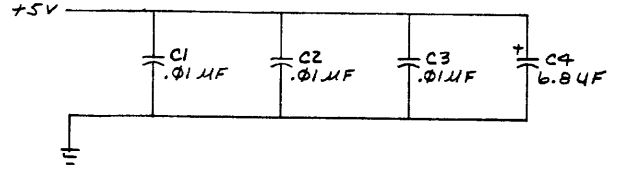
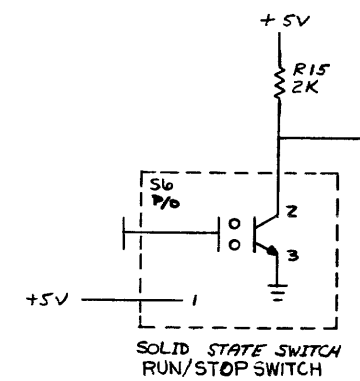
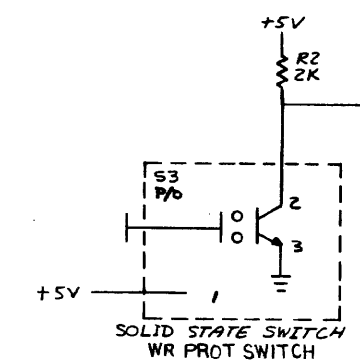
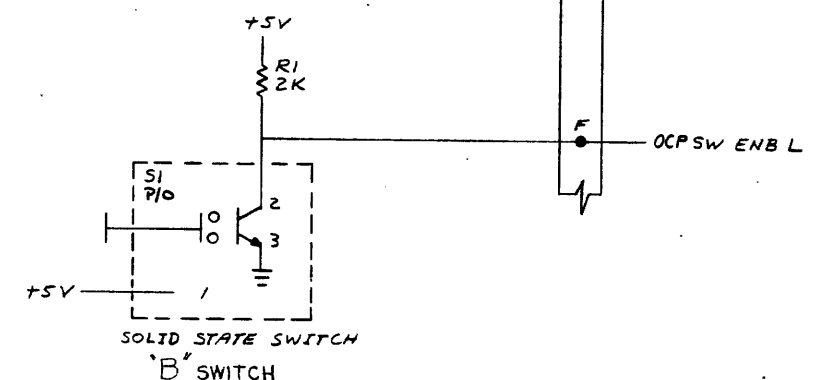
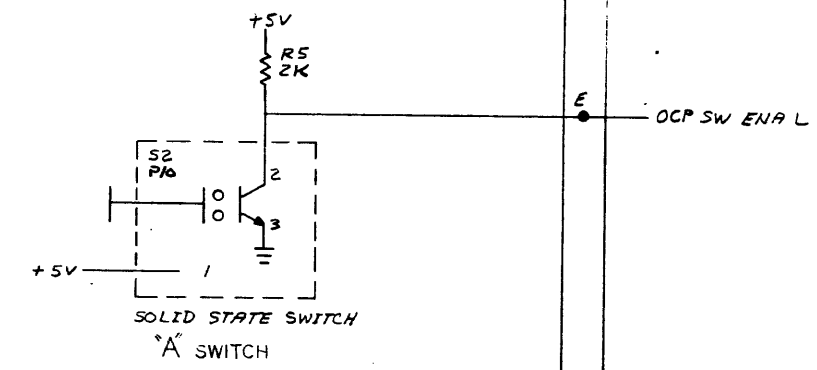
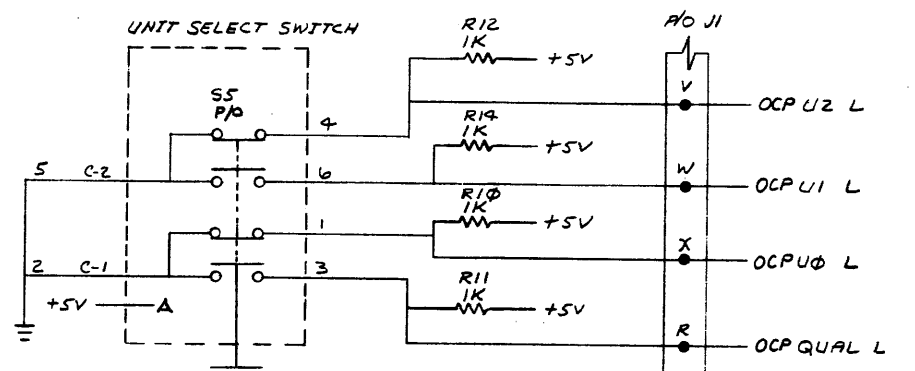
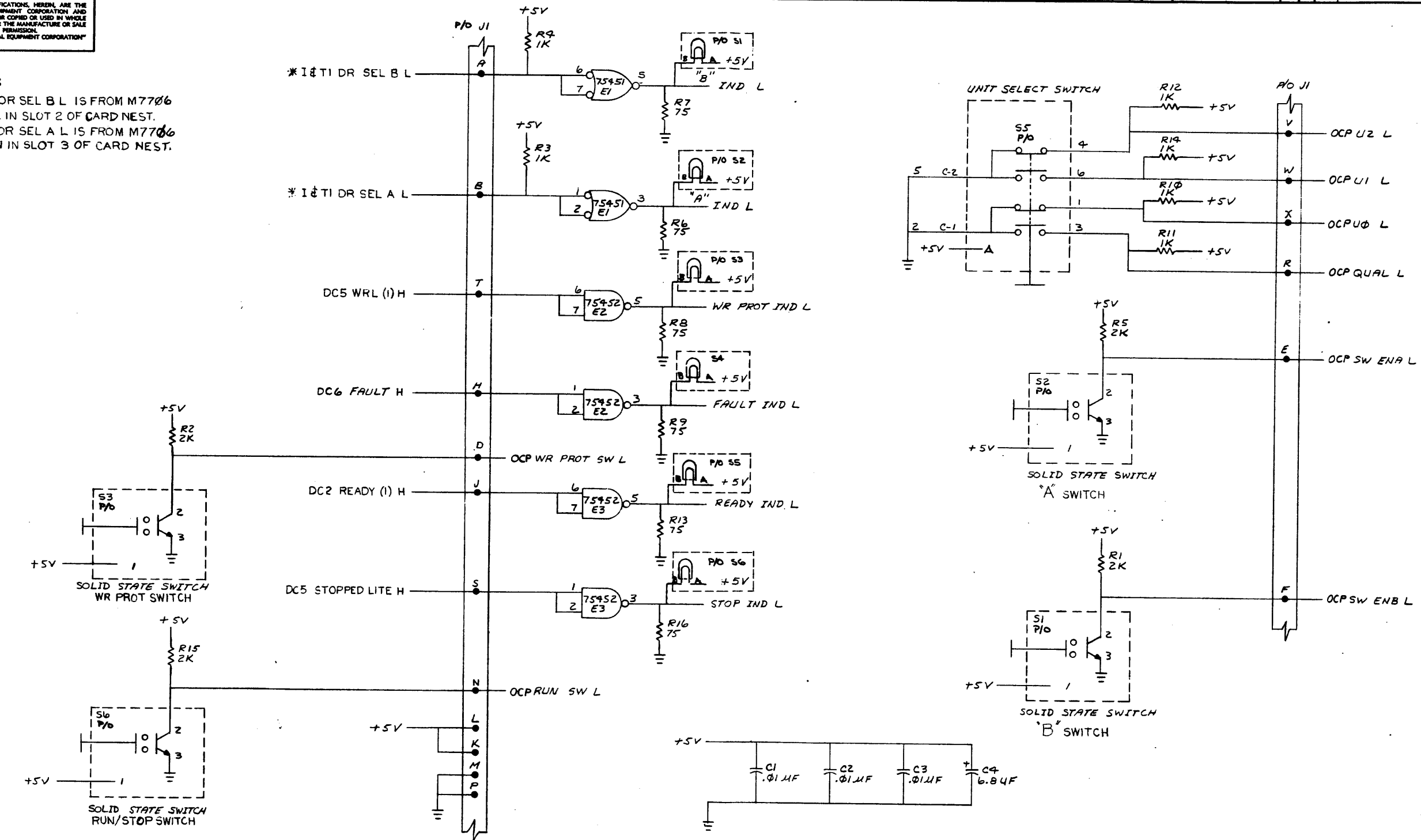
CHG NO	REV	DATE
6/2	F	

ETCH REV. D
P.C. DESIGN DATA BASE REV. D

SIGNATURES		DATE	digital
DRN. F. GAROFALO		4-28-76	
CHK'D. C. BILLY		1 May 76	TITLE OPERATOR CONTROL PANEL
ENG. M. J. ANNO		5/6/76	
PROJ. ENG. A. G. VELLANO		5/6/76	
PROD. C. J. BOWEN		5/25/76	
SCALE 2/1			
SHT. 1 OF 5	SIZE CODE	NUMBER	REV
NEXT HIGHER ASSY. RK06	D AH	5411823-0-5	F

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* NOTE:
 I# TI DR SEL B L IS FROM M7706 WHEN IN SLOT 2 OF CARD NEST.
 I# TI DR SEL A L IS FROM M7706 WHEN IN SLOT 3 OF CARD NEST.



NOTES:
 1. UNLESS OTHERWISE SPECIFIED RESISTORS ARE 1/4W, 5%.

GND +5V
 E1-4 E1-8
 E2-4 E2-8
 E3-4 E3-8

REV	REV
5411823-00002 F	
M. CASTELLANOS	
227	

ETCH BOARD		D
DRN. M. PARRIS	21-NOV-75	FIRST USED ON
CHK'D. H. HANSEN	24-NOV-75	RK06
ENG. M. HANSEN	25-MAY-76	TITLE
PROJ. ENG. M. HANSEN	25-MAY-76	OPERATORS CONTROL PANEL
PROD. C. ZIMMER	25-MAY-76	NEXT HIGHER ASSY.
D-UA-5411823-0-0	SIZE CODE	NUMBER
SCALE	D CS	5411823-0-1
SHEET	OF	DIST.

DIGITAL EQUIPMENT CORPORATION

MAYNARD, MASSACHUSETTS

PARTS LIST

ETCH REV D

MADE BY <i>M. Poirier</i>	CHECKED <i>H. Karabjian</i>	SECTION
DATE <i>9/5/75</i>	DATE <i>18 NOV 75</i>	
ENG <i>M. Castellano</i>	PROD <i>C.E. Bowell</i>	ISSUED SECT.
DATE <i>5/25/76</i>	DATE <i>5-25-76</i>	

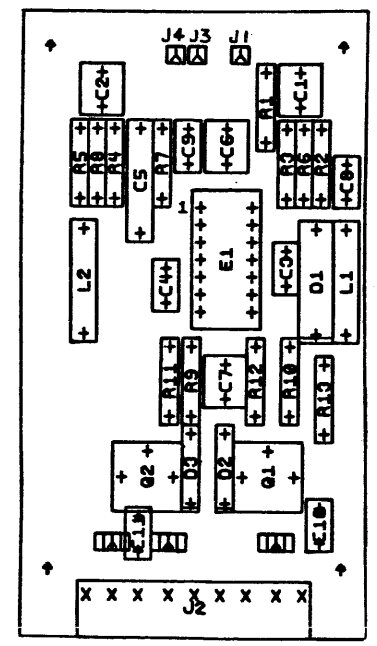
QUANTITY / VARIATION

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	REF	QTY	VARIATION
1	D-CS-5411823-0-1	OPERATORS CONTROL PANEL (C.S.)	REF		
2	D-AH-5411823-0-5	ASSY/DRILLING HOLE LAYOUT	REF		
3	B-MH-5411823-0-6	MODULE ECO HISTORY	REF		
4	5011822	ETCH CIRCUIT BOARD	1		
5	1001610-00	CAP .01UF 50V	3	C1, C2, C3	
6	1005306-00	CAP 6.8UF 35V 10% S.TANT	1	C4	
7	1302379-00	RES 75 1/4W 5%	6	R6, R7, R8, R9, R13, R16	
8	1302388-00	RES 2K 1/4W 5%	4	R1, R2, R5, R15	
9	1300365-00	RES 1K 1/4W 5%	6	R3, R4, R10, R11, R12, R14	
10	1910406-00	I.C. 75451	1	E1	
11	1910645-00	I.C. 75452	2	E2, E3	
12	1209941-06	CONN 20 PIN	1	J1	
13	1212718-00	SWITCH, PUSHBUTTON	4	S1, S2, S3, S6	
14	1212715-00	INDICATOR ASSEMBLY	1	S4	
15	1212690-00	UNIT SELECT BASE MODULE	1	S5	
16	C-MD-7413938-0-0	SWITCH MOUNTING BRACKET	1		
17	1209941-03	LATCH, LEFT	1		
18	1209941-04	LATCH, RIGHT	1		

TITLE OPERATORS CONTROL PANEL	ASSY NO. D-UA-5411823-0-0	SIZE A	CODE PL	NUMBER 5411823-0-0	REV. F	ECO NO. 5411823 00002
SHEET 1 OF 1		DIST.				

COMPONENT SIDE VIEW

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SEE SHEET 2

NOTES:

CHANGE NO	REV	DATE	BY	CHK'D
5411687-	E			
0003				
J. CARTER				
R. LAWSON				

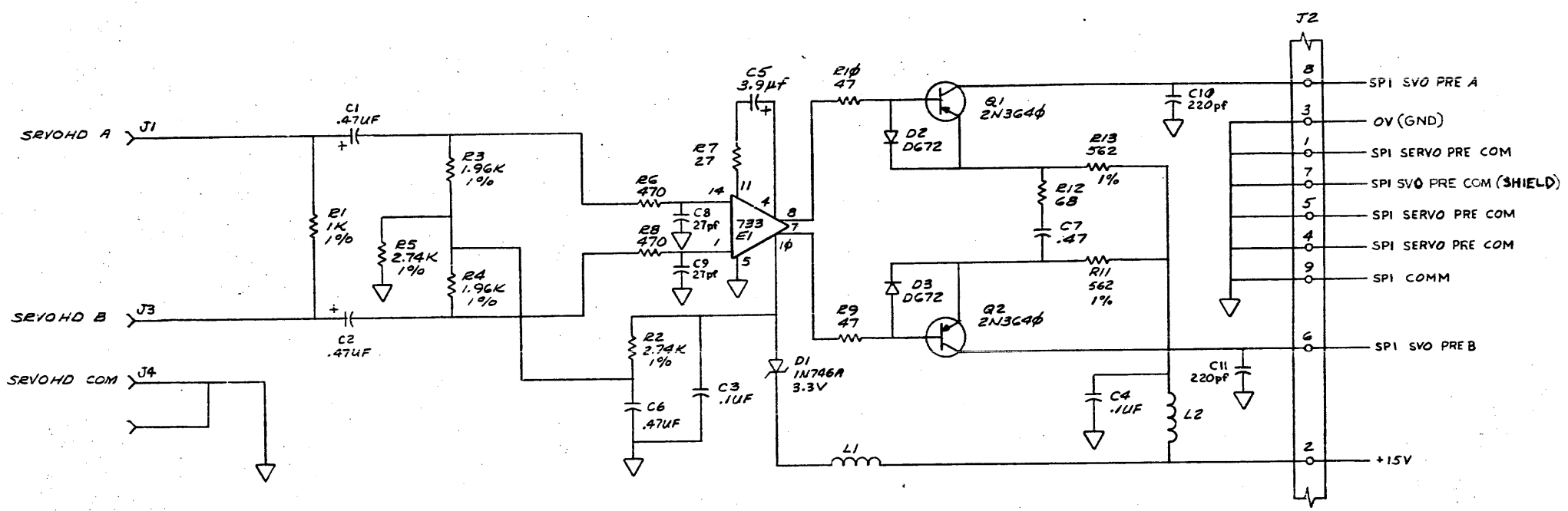
HOLE DATA	
SYMBOL	
PIN HOLE SIZE	
PLATED	
NON PLATED	
QTY.	
○ - OFF GRD HLE	
DRILL SIZE	

BOARD FABRICATION INFORMATION	
PANEL SIZE	
PANEL DATA DWG.#	
PANEL MAT'L	
QTY. OF LAYERS	
COPPER THICKNESS	
PTH. PRINT AND ETCH	
MOULDE INSERTED 100 TIMES OR MORE	

SIGNATURES		DATE	TITLE
DRN. J. CARTER		3-21-77	digital SERVO PREAMP
CHK'D. <i>[Signature]</i>		3-21-77	
ENG. <i>[Signature]</i>		4-1-77	
PROJ. ENG. <i>[Signature]</i>		4-1-77	
PROD. <i>[Signature]</i>		7-5-77	
SCALE 2/1	SIZE CODE	NUMBER	REV
SHT. 1 OF 4	0 AH	5411687-0-5 E	
NEXT HIGHER ASSY. RKOG	ETCH REV. D		

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1-0-28911b9 SC 2



REV.	CHG.	NO.	DATE	BY	CHKD.
1	E	5411687-00001	C	E. SIMMONS	
2		5411687-00002	D	M. CASTELLANOS	
3		5411687-00003	E	M. CASTELLANOS	
4		5411687-00004	F	M. CASTELLANOS	

ETCH REV D

DRMT	2/6/76	FIRST USED ON	RK06	Digital
CHK'D	11 FEB 76	TITLE	SERVO PREAMP	
PROJ. ENG.		SCALE	D	CS 5411687-0-1
PROD.		SHEET	1	OF 1
NEXT HIGHER ASSY.		DIST.		

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
1	1	D-CS-5411687-0-1	SERVO PREAMP (C.S.)	REF	
2	2	D-AH-5411687-0-5	ASSY/DRILLING HOLE LAYOUT	REF	
3	3	B-MH-5411687-0-6	MODULE ECO HISTORY	REF	
4	4	5011686-00	54-11687	1	
5	5	1010279-00	.47 MFD 25V 20% CER	2	C6,C7
6	6	1010978-36	.1 MFD 50V 10% CER	2	C3,C4
7	7	1000064-00	3.9MFD 10V 10% S.TANT	1	C5
8	8	1104860-00	1N 746A VZ= 3.3 5%	1	D1
9	9	1105275-00	D 672 TR= 15NS PIV= 60V SI	2	D2,D3
10	10	1300202-00	47.0 .25 W 5.0 % CC	2	R9,R10
11	11	1300219-00	68.0 .25 W 5.0 % CC	1	R12
12	12	1304693-00	562.0 .25 W 1.0 % RN55D-F10	2	R11,R13
13	13	1303114-00	1.0 K .25 W 1.0 % RN55D-F10	1	R1
14	14	1304833-00	1.96 K .25 W 1.0 % RN55D-F10	2	R3,R4
15	15	1304868-00	2.74 K .25 W 1.0 % RN55D-F10	2	R2,R5
16	16	1301522-00	27.0 .25 W 5.0 % CC	1	R7
17	17	1503029-00	2N 3640 FNP 200MW SI	2	Q1,Q2
18	18	1611257-01	CHOKE(CERAMIC BEAD)AXIAL LEAD,ON	2	L1,L2
19	19	1210385-01	PIN 1POS WIRE WRAP	3	J1,J3,J4
20	20	1212619-01	HEADER,156 9POS STRAIGHT	1	J2
21	21	1910644-00	733 DIFFERENTIAL AMP,WID	1	E1
22	22	1001739-00	27.0 MMF 100V 5%200PPM MICA	2	C8,C9
23	23	1000021-00	220.0 MMF 100V 5%200PPM MICA	2	C10,C11
24	24	1300316-00	470.0 .25 W 5.0 % CC	2	R6,R8
25	25	B-DD-7012607-0-0	TESTER DOCUMENTATION	REF	
26	26	1017718-00	.470 MFD 35V 20% S.TANT	2	C1,C2

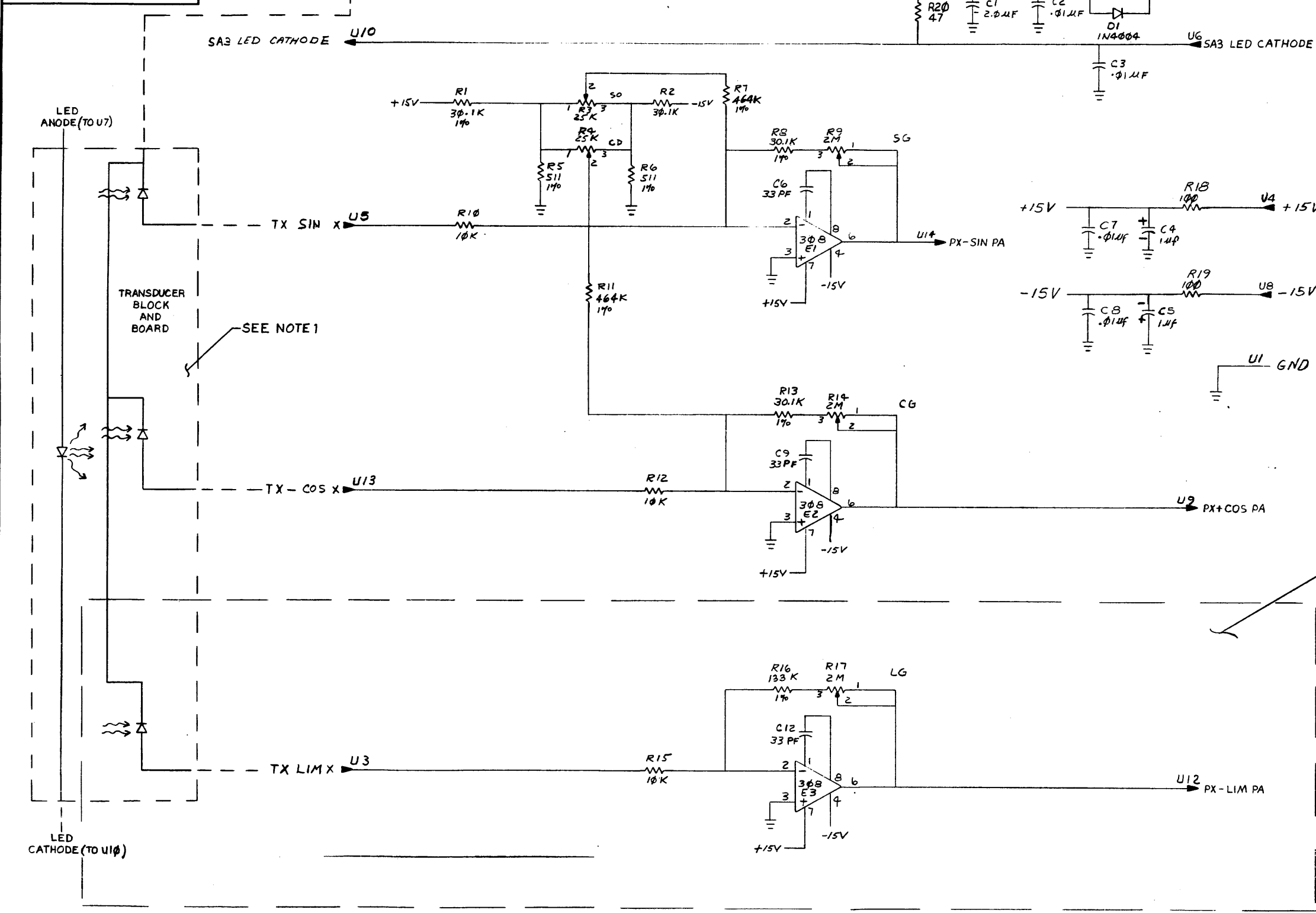
REVISION HISTORY		BASIC PART NO: 5411687		DRN:	LORA METZGER	DATE:	16-JUL-80	D I G I T A L			
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	H. DARAKJIAN	DATE:	16-JUL-80	TITLE PARTS LIST			
FC	5411687-ML004	F	SECTION VARIATION INDEX					SERVO PREAMP			
			[A] 00					DOCUMENT NUMBER			
			[B]	DES.ENG:	R. GUSTAFSON	DATE:	16-JUL-80	SIZE	CODE	NUMBER	REV
			[C]					K	PL	5411687-0-DBP	F
			[D]	RESP.ENG.:	R. GUSTAFSON	DATE:	16-JUL-80	ASSEMBLY NUMBER: TOP DOCUMENT NUMBER: FILE NAME: EDIT #			
			[E]					D-UA-5411687-0-0 Z1565F.PLS 2			
			[F]								
			[G]								
			[H]								
			[I]								
			[J]								
			[K]								
			[L]								
			[M]								
			[N]								

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H 1-0-1881-0-1 DCS 5411881-0-1 2

NOTES:
 1. THIS PORTION (ZONE CB) IS NOT PART OF THIS MODULE. IT IS DRAWN HERE JUST TO CLARIFY THE FUNCTIONAL RELATIONSHIP BETWEEN LED, PHOTO DIODES AND THE PREAMP.
 2. THIS CIRCUIT (LIMIT) (SEE ZONE A5) IS IN VARIATION-00 ONLY.



SEE NOTE 1

SEE NOTE 2

REVISIONS		
CHK	CHANGE NO.	REV.

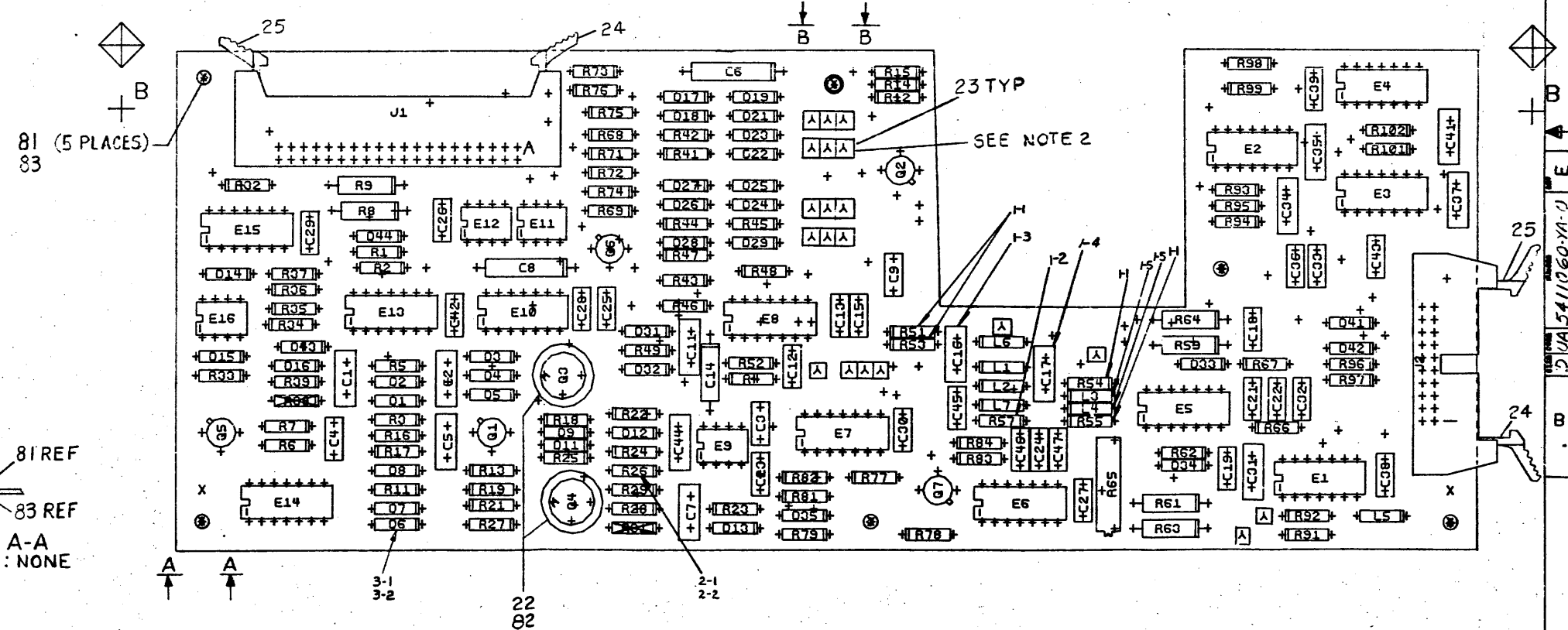
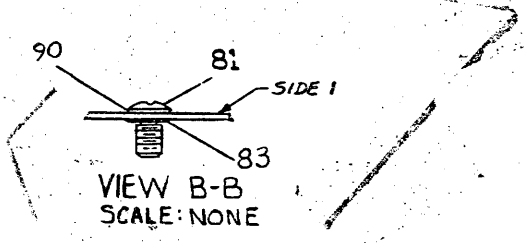
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COMPONENT SIDE VIEW

REWORK INSTRUCTIONS

- ECO #1**
- 1-1 CHANGE R51, R53, R54, AND R55 FROM 825 1% RESISTORS TO 909 1/4 W 1% (P/N: 1302685-00)
 - 1-2 CHANGE R57 FROM 4.7K TO JUMPER (ZERO OHM RES) (P/N: 9009185-00)
 - 1-3 CHANGE C16 FROM 27pf CAP. TO 10pf CAP. (P/N: 1000006-00)
 - 1-4 CHANGE C17 FROM 18pf TO 27pf CAP. (P/N: 1001739-00)
 - 1-5 CHANGE Z3 AND L4 FROM 10uH CHOKES TO CHOKES TO 100 uH CHOKES. (1610662-00)

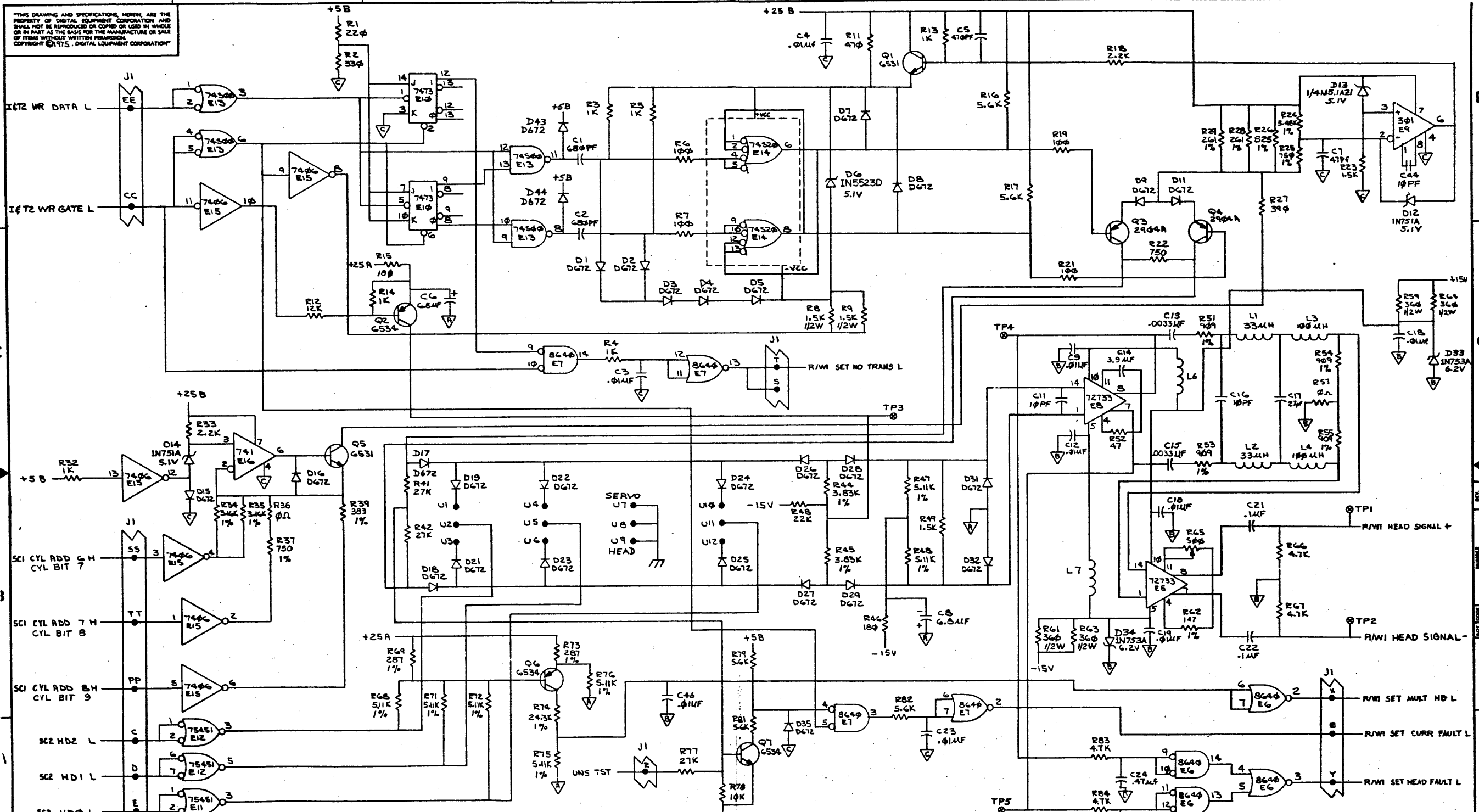
- E.C.O.#2**
- COMPONENT DELETES SIDE 1:
 - 2-1: DELETE R26 (348Ω) (P/N#1304858)
 - COMPONENT ADDS SIDE 1:
 - 2-2 ADD R26 (325Ω) (P/N#1305143)
- ECO #3**
- COMPONENT DELETES SIDE 1:
 - 3-1. DELETE DIODE, ZENER 5.1V (P/N 1110994)
 - COMPONENT ADDS SIDE 1:
 - 3-2. ADD DIODE, ZENER 5.1V (P/N 1113953)



- NOTES:**
1. B HOLES - 0.045 (+.000-.005) MAYNARD ONLY
 2. [Symbol] = WIRE WRAP PINS MOUNTED FROM SIDE 1.
 3. DO NOT INSERT R31 & R38.

CHANGE NO.	REV.	DESCRIPTION
1	A	INITIAL RELEASE
2	B	REVISION 1
3	C	REVISION 2
4	D	REVISION 3
5	E	REVISION 4
6	F	REVISION 5
7	G	REVISION 6
8	H	REVISION 7
9	I	REVISION 8
10	J	REVISION 9
11	K	REVISION 10
12	L	REVISION 11
13	M	REVISION 12
14	N	REVISION 13
15	O	REVISION 14
16	P	REVISION 15
17	Q	REVISION 16
18	R	REVISION 17
19	S	REVISION 18
20	T	REVISION 19
21	U	REVISION 20
22	V	REVISION 21
23	W	REVISION 22
24	X	REVISION 23
25	Y	REVISION 24
26	Z	REVISION 25
27	AA	REVISION 26
28	AB	REVISION 27
29	AC	REVISION 28
30	AD	REVISION 29
31	AE	REVISION 30
32	AF	REVISION 31
33	AG	REVISION 32
34	AH	REVISION 33
35	AI	REVISION 34
36	AJ	REVISION 35
37	AK	REVISION 36
38	AL	REVISION 37
39	AM	REVISION 38
40	AN	REVISION 39
41	AO	REVISION 40
42	AP	REVISION 41
43	AQ	REVISION 42
44	AR	REVISION 43
45	AS	REVISION 44
46	AT	REVISION 45
47	AU	REVISION 46
48	AV	REVISION 47
49	AW	REVISION 48
50	AX	REVISION 49
51	AY	REVISION 50
52	AZ	REVISION 51
53	BA	REVISION 52
54	BB	REVISION 53
55	BC	REVISION 54
56	BD	REVISION 55
57	BE	REVISION 56
58	BF	REVISION 57
59	BG	REVISION 58
60	BH	REVISION 59
61	BI	REVISION 60
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63	BK	REVISION 62
64	BL	REVISION 63
65	BM	REVISION 64
66	BN	REVISION 65
67	BO	REVISION 66
68	BP	REVISION 67
69	BQ	REVISION 68
70	BR	REVISION 69
71	BS	REVISION 70
72	BT	REVISION 71
73	BV	REVISION 72
74	BW	REVISION 73
75	BX	REVISION 74
76	BY	REVISION 75
77	BZ	REVISION 76
78	CA	REVISION 77
79	CB	REVISION 78
80	CC	REVISION 79
81	CD	REVISION 80
82	CE	REVISION 81
83	CF	REVISION 82
84	CG	REVISION 83
85	CH	REVISION 84
86	CI	REVISION 85
87	CJ	REVISION 86
88	CK	REVISION 87
89	CL	REVISION 88
90	CM	REVISION 89
91	CN	REVISION 90
92	CO	REVISION 91
93	CP	REVISION 92
94	CQ	REVISION 93
95	CR	REVISION 94
96	CS	REVISION 95
97	CT	REVISION 96
98	CU	REVISION 97
99	CV	REVISION 98
100	CW	REVISION 99
101	CX	REVISION 100
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103	CZ	REVISION 102
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111	DH	REVISION 110
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113	DJ	REVISION 112
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117	DN	REVISION 116
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318	LG	REVISION 317
319	LH	REVISION 318
320	LI	REVISION 319
321	LJ	REVISION 320
322	LK	REVISION 321
323	LL	REVISION 322
324	LM	REVISION 323
325	LN	REVISION 324
326	LO	REVISION 325

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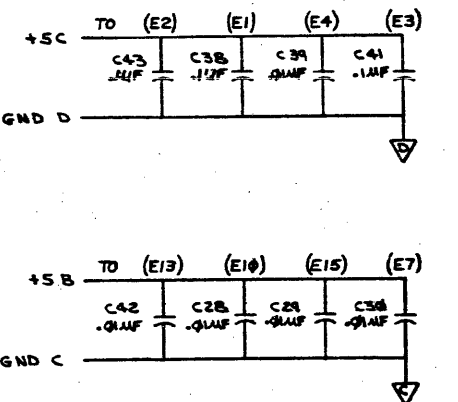
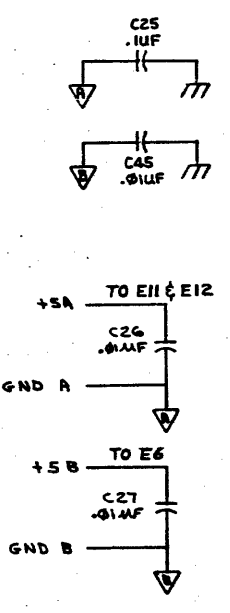
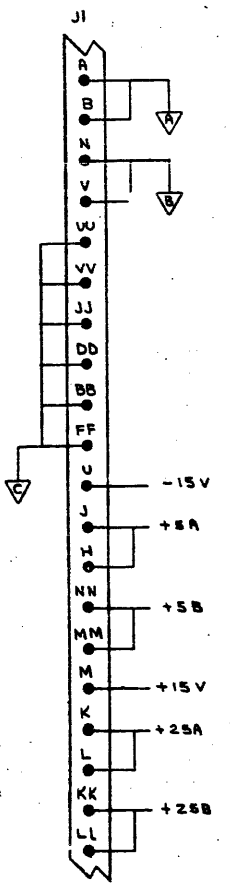
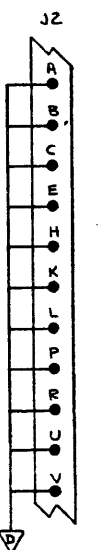
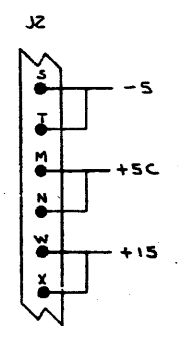
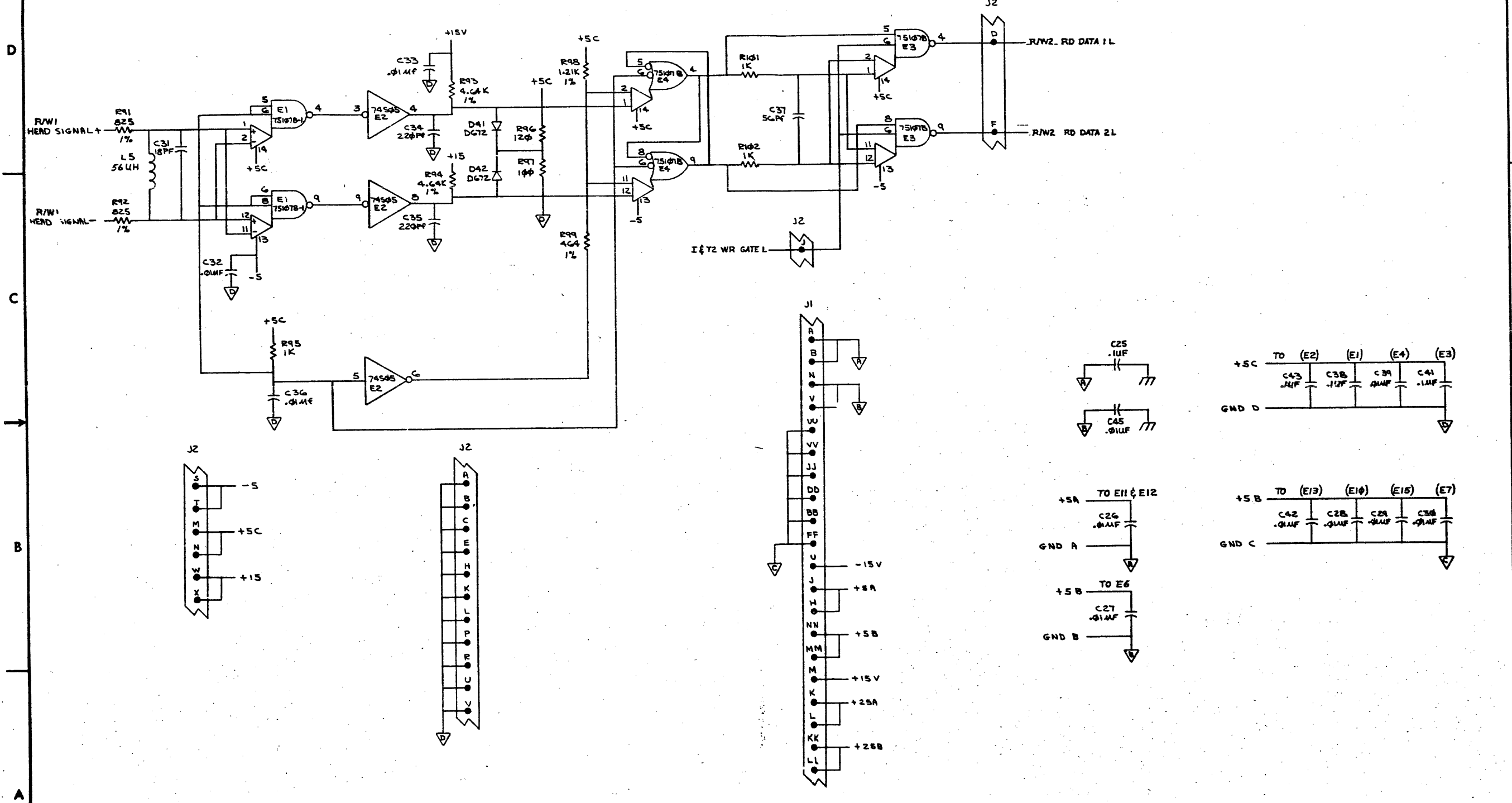


REV.	DATE	BY	CHKD
A	12 FEB 76	J. ROLLINS	M. CASTELLANOS
B	12 FEB 76	J. ROLLINS	M. CASTELLANOS
C	12 FEB 76	J. ROLLINS	M. CASTELLANOS
D	12 FEB 76	J. ROLLINS	M. CASTELLANOS
E	12 FEB 76	J. ROLLINS	M. CASTELLANOS

DRN	9-2-75	FIRST USED ON	RK07
CHK'D	12 FEB 76	TITLE	RK07 READ/WRITE
PROJ. ENG.		SIZE CODE	D
PROJ. MGR.		NUMBER	5411060-YA-1
NEXT HIGHER ASSY.		REV.	E
D-11A-5411060-YA-0		SCALE	
SHEET 1 OF 2		DIST.	

D E C S 5411060-YA-1

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REVISIONS		
CHK	CHANGE NO.	REV.

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					YA		
1	1	D-CS-5411060-YA-1		RK07 READ WRITE (C.S.)		REF	
2	2	D-UA-5411060-YA-0		UNIT ASSEMBLY		REF	
3	3	B-DD-5411060-YA-0		DWG DIRECTORY		REF	
4	4		5011059-00	54-11060		1	
5	5		1000006-00	10.0 MMF 100V 5%200PPM DM15S	3		C11,C44,C16
6	6		1000011-00	47.0 MMF 100V 5%200PPM DM15S	1		C7
7	7		1000012-00	56.0 MMF 100V 5%200PPM DM15S	1		C37
8	8		1000021-00	220.0 MMF 100V 5%200PPM DM15S	2		C34,C35
9	9		1000024-00	470.0 MMF 100V 5%200PPM DM15S	1		C5
10	10		1000026-00	680.0 MMF 100V 5%200PPM DM15S	2		C1,C2
11	11		1010978-36	.1 MFD 50V 10% 2C067 CER	6		C21,C22,C25,C41,C38,C43
12	12		1001739-00	27.0 MMF 100V 5%200PPM DM15S	1		C17
13	13		1002608-00	18.0 MMF 100V 5%200PPM DM15S	1		C31
14	14		1005306-00	6.8MFD 35V 10% S.TANT	2		C6,C8
15	15		1001610-01	.01 MFD 100V -20+80 Z5U DISC	19		C3,C4,C9,C12,C18,C19,C23, C26-C30,C32,C33,C36,C39,C42,C46
16	16		1102421-00	1N 753A VZ= 6.2 5% .40W P	2		D33,D34
17	17		1110994-00	1N 751A VZ= 5.1 5% .40W	2		D12,D14
18	18		1105871-00	1/4MS.1AZ1 = 5.1 1% .25W N	1		D13
19	19		1105275-00	D 672 TR= 15NS PIV= 60V SI	30		D1-D5,D7,D8,D9,D11,D15-D19, D21-D29,D31,D32,D35,D41-D44
20	20		1209941-06	HEADER.100 20POS RT ANGLE	1		J2
21	21		1209941-02	HEADER 100 40POS RT ANGLE	1		J1
22	22		1210001-00	HEAT SINK BLACK	2		
23	23		1210385-01	PIN 1POS WIRE WRAP	20		
24	24		1209941-04	HEADER RT ANGLE,RIGHT	2		
25	25		1209941-03	HEADER RT ANGLE LEFT L	2		
26	26		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	2		R36,R57
27	27		1300202-00	47 1/4W 5% CC	1		R52

REVISION HISTORY		BASIC PART NO: 5411060		DRN:	K.DAVIS	DATE:	03-APR-78	DIGITAL			
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	R.W.	DATE:	03-APR-78	PARTS LIST			
---	00002	B	SECTION VARIATION INDEX								
B.F	00003	C	[A] YA					RK07 READ/WRITE			
---	00004	D	[B]								
MC	5411060YA-ML005	E	[C]	DES.ENG:	J.ROLLINS	DATE:	03-APR-78	DOCUMENT NUMBER			
			[D]								
			[E]								
			[F]	RESP.ENG.:	J.ROLLINS	DATE:	03-APR-78	SIZE	CODE	NUMBER	REV
			[H]								
			[J]								
			[K]	MFG.ENG.:	MC	DATE:	03-APR-78	K	PL	5411060-YA-DBP	E
			[L]								
			[M]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT	
			[N]	D-UA-5411060-YA-0		RK07		Z1025E.PLS		1	

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LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	YA	REFERENCE DESIGNATOR
28	28	1300229-00	100 1/4W 5% CC	5			R6,R7,R19,R21,R97
29	29	1300247-00	120 1/4W 5% CC	1			R96
30	30	1300271-00	220 1/4W 5% CC	1			R1
31	31	1300295-00	330 1/4W 5% CC	1			R2
32	32	1300309-00	390 1/4W 5% CC	1			R27
33	33	1300316-00	470 1/4W 5% CC	1			R11
34	34	1300365-00	1 K 1/4W 5% CC	9			R3,R4,R5,R13,R14,R32,R95,R101, R102
35	35	1300391-00	1.5 K 1/4W 5% CC	2			R23,R49
36	36	1300394-00	1.5 K 1/2W 5% CC	2			R8,R9
37	37	1300417-00	2.2 K 1/4W 5% CC	2			R18,R33
38	38	1300447-00	4.7 K 1/4W 5% CC	4			R66,R67,R83,R84
39	39	1300479-00	10 K 1/4W 5% CC	1			R78
40	40	1300488-00	12 K 1/4W 5% CC	1			R12
41	41	1301322-00	180 1/4W 5% CC	2			R15,R46
42	42	1301808-00	22 K 1/4W 5% CC	1			R43
43	43	1301874-00	5.6 K 1/4W 5% CC	5			R16,R17,R79,R81,R82
44	44	1302383-00	360 1/2W 5% CC	4			R59,R61,R63,R64
45	45	1302871-00	1.21 K 1/4W 1% RN55D-F 100PPM	1			R98
46	46	1302873-00	261 1/4W 1% RN55D-F 100PPM	2			R28,R29
47	47	1302955-00	750 1/4W 1% RN55D-F 100PPM	2			R25,R37
48	48	1303045-00	3.16 K 1/4W 1% RN55D-F 100PPM	2			R34,R35
49	49	1303047-00	464 1/4W 1% RN55D-F 100PPM	1			R99
50	50	1304854-00	5.11 K 1/4W 1% RN55D-F 100PPM	7			R47,R48,R68,R71,R72,R75,R76
51	51	1304856-00	4.64 K 1/4W 1% RN55D-F 100PPM	2			R93,R94
52	52	1305114-00	3.48 K 1/4W 1% RN55D-F 100PPM	1			R24
53	53	1302874-00	147 1/4W 1% RN55D-F 100PPM	1			R62
54	54	1305124-00	287 1/4W 1% RN55D-F 100PPM	2			R69,R73
55	55	1305125-00	383 1/4W 1% RN55D-F 100PPM	1			R39
56	56	1305143-00	825 1/4W 1% RN55D-F 100PPM	3			R26,R91,R92
57	57	1305346-00	27 K 1/4W 5% CC	3			R41,R42,R77
58	58	1309143-06	500 3/4W10% POT 100PPM	1			R65
59	59	1309418-00	24.3 K 1/4W 1% RN55D-F 100PPM	1			R74
60	60	1309413-00	3.83 K 1/4W 1% RN55D-F 100PPM	2			R44,R45
61	61	1501913-00	2N 2904A PNP 600MW SI 60 40 Y	2			Q3,Q4
62	62	1503409-02	DEC6534C PNP 310MW SI 40 70 P	2			Q2,Q6
63	63	1509338-00	DEC6531B NPN 310MW SI 40 90 P	3			Q1,Q5,Q7
64	64	1610662-00	100.0 UH 10% 165MA #DD1 00	2			L3,L4
65	65	1612946-01	33 UH 10% 260MA	2			L1,L2
66	66	1610661-00	56 UH 10% #DD56	1			L5
67	67	1611257-01	CHOKE(CERAMIC BEAD)AXIAL LEAD,ON	2			L6,L7
68	68	1905587-00	DEC 7473 FF-JK DUAL,MASTER SL	1			E10
69	69	1910298-00	741 OP AMP GEN PURP. COM	1			E16
70	70	1910268-00	DEC 75107B RECEIVER,LINE,DUAL,	2			E3,E4
71	71	1910406-00	75451 DRIVER,PERIPH,DUAL,	2			E11,E12
72	72	1910532-00	74S00 NAND GATE-QUAD 2IN\$	1			E13
73	73	1910535-00	74S05 INVERTER GATE-HEX 1	1			E2
74	74	1910539-00	74S20 NAND GATE-DUAL 4INPU	1			E14

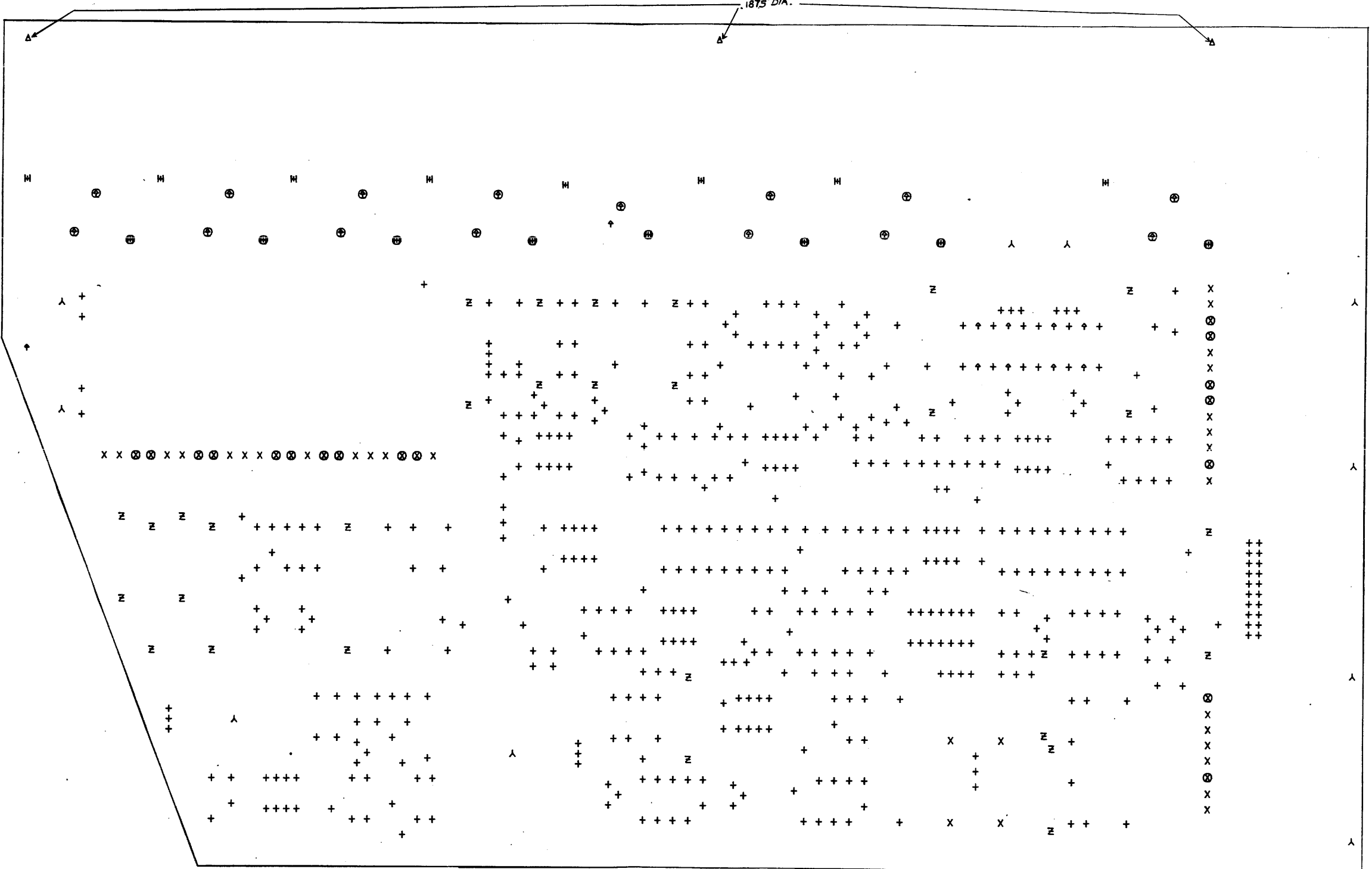
CONT

D	I	G	I	T	A	L	TITLE	SECTION A	OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							RK07 READ/WRITE			K	PL	5411060-YA-DBP	E

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION YA	REFERENCE DESIGNATOR
75		1910644-00	733 DIFFERENTIAL AMP,WID	2	E5,E8
76		1910741-01	7406N BUFFER,HEX	1	E15
77		1911469-00	DEC 8640 RECEIVER,BUS,QUAD,U	2	E6,E7
78		1910282-00	301AN OP AMP	1	E9
79		1910268-01	DEC 75107B-01 RECEIVER,LINE,DUA	1	E1
80		1301401-00	750 1/4W 5% CC	1	R22
81		7415620-01	SCREW CAPTIVE	6	
82		9007201-00	TRANSIPADS #10253	2	
83		9009271-00	RING, RETAINING, REINFORCED, FIT	6	
84		1000064-00	3.9MFD 10V 10% 150D S.TA	1	C14
85		1011740-01	3300.0 MMF 50V 10% CW15C CER.	2	C13,C15
86	B-DD-7012623-0-0		TESTER DOCUMENTS (PROTO)	REF	
87	B-DD-7012784-0-0		TESTER DOCUMENTS (PRODUCTION)	REF	
88		1010279-00	.47 MFD 25V 20% 2C023 CER.	2	C24,C47
89	B-MD-7417415-0-0	9006010-01	*** THIS ITEM IS NOT USED ***	-	
90		9006632-00	WASHER,LOCK,INT,.2600D X .120ID	1	
91		1302685-00	909 1/4W 1% RN55D-F 100PPM	4	R51,R53,R54,R55
92		1113953-00	1N 5523D VZ= 5.1 1%	1	D6

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							RK07 READ/WRITE		K	PL	5411060-YA-DBP	E

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1. 8 HOLES .0765 (+.000-.0015) MAYNARD ONLY

CHANGE NO	REV	DATE	BY	APP
541042-10	N	6-6-76	D. Dingler	
541042-11	P	6-11-76	M. Castellano	
541042-12	P	6-11-76	M. Castellano	

SYMBOL	HOLE DATA									
	+	X	Z	N	A	□	◇	*		
FIN HOLE SIZE	.042	.128	.073	.067	.055	.156	.187			
PLATED	✓		✓	✓	✓					
NON PLATED		✓				✓				
QTY.	525	10	47	25	30	16	3			16
○-OFF GRID HLE										
DRILL SIZE			17	15		8				
.025 GRID UNLESS INDICATED										

BOARD FABRICATION INFORMATION	
PANEL SIZE	8.5 X 17.00
PANEL DATA DWG.#	E-MD-7606032-0-0
PANEL MAT'L	FL-GF-052-C 2/1
DEC PS	- 1400000
BTY. OF LAYERS	2
PTH.	✓ PRINT AND ETCH
SOLDER MASK	SIDE 2 BOTH SIDES
GOLD CONTACTS	N BOTTOM TOP

SIGNATURES		DATE	TITLE
DRN.	D. Dingler	6-6-76	
CHK'D.	M. Castellano	6-11-76	
ENG.	M. Castellano	6-11-76	
PROD.	M. Castellano	6-11-76	
SCALE	1 OF 3		
SHT.			
NEXT HIGHER ASSY.			

digital

SIZE CODE NUMBER REV

0 AH 541042-0-5 P

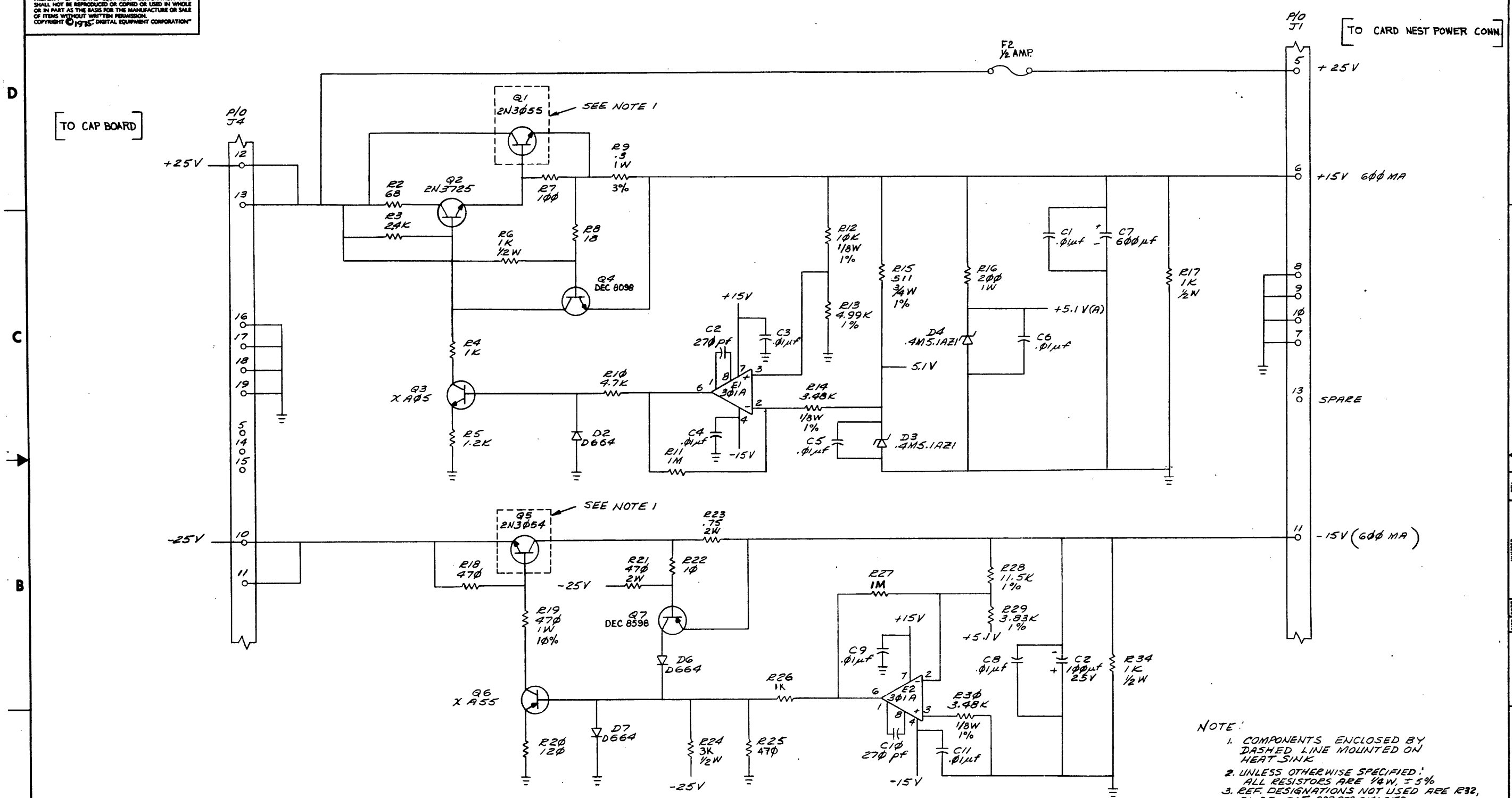
ETCH REV. F-P

1 MS#

5401142-0-5 P

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REV. P 5411042-0-1

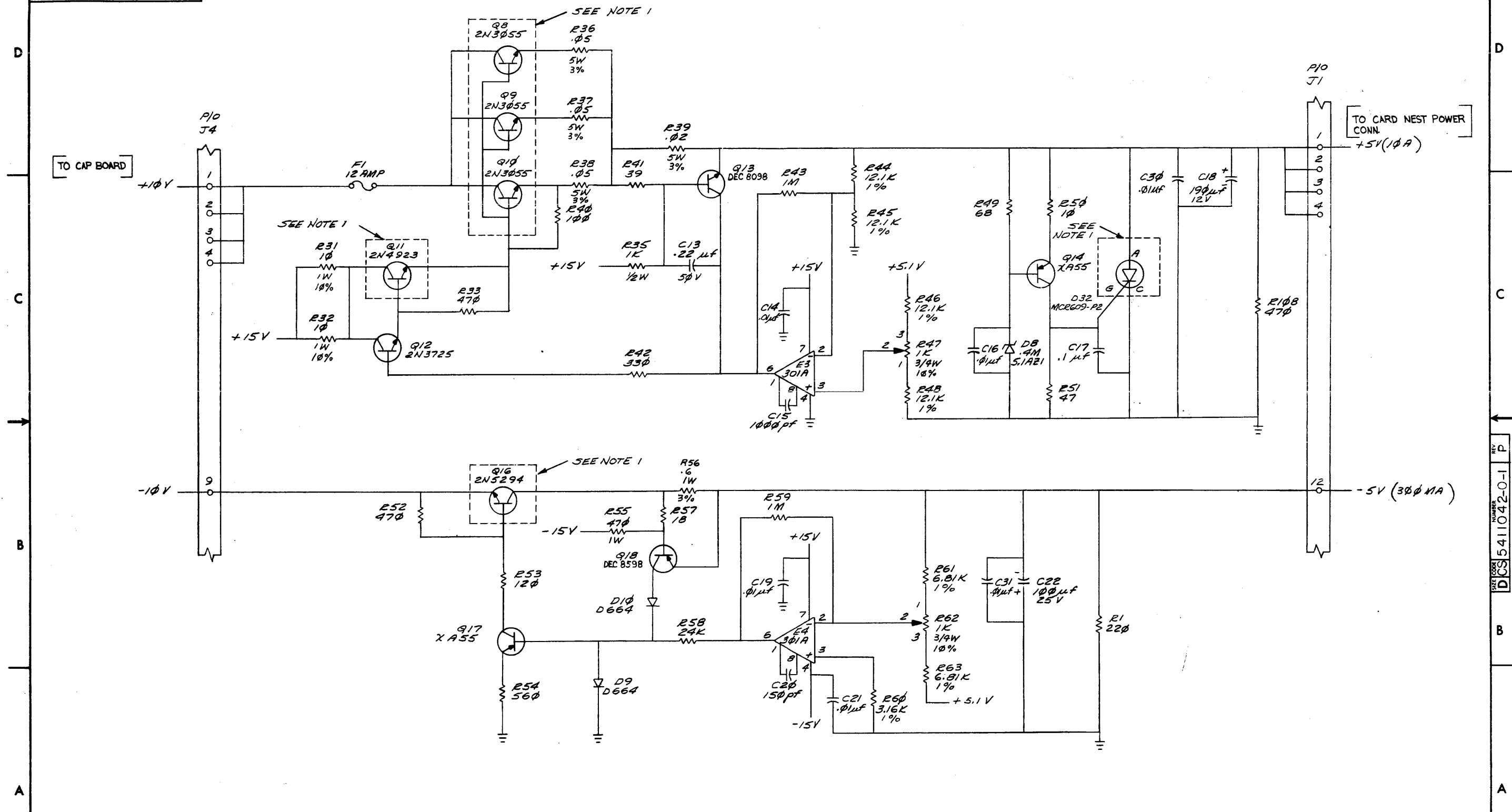


NOTE:
 1. COMPONENTS ENCLOSED BY DASHED LINE MOUNTED ON HEAT-SINK
 2. UNLESS OTHERWISE SPECIFIED: ALL RESISTORS ARE 1/4W, ±5%
 3. REF. DESIGNATIONS NOT USED ARE R32, D1, D5, Q15, R97, R98, R101, R102

REV.	DATE	BY	CHK'D	DESCRIPTION
1	11-20-74	J. DREW		INITIAL DESIGN
2	12-10-74	J. DREW		REVISION
3	1-10-75	J. DREW		REVISION
4	2-10-75	J. DREW		REVISION
5	3-10-75	J. DREW		REVISION
6	4-10-75	J. DREW		REVISION
7	5-10-75	J. DREW		REVISION
8	6-10-75	J. DREW		REVISION
9	7-10-75	J. DREW		REVISION
10	8-10-75	J. DREW		REVISION
11	9-10-75	J. DREW		REVISION
12	10-10-75	J. DREW		REVISION
13	11-10-75	J. DREW		REVISION
14	12-10-75	J. DREW		REVISION
15	1-10-76	J. DREW		REVISION
16	2-10-76	J. DREW		REVISION
17	3-10-76	J. DREW		REVISION
18	4-10-76	J. DREW		REVISION
19	5-10-76	J. DREW		REVISION
20	6-10-76	J. DREW		REVISION
21	7-10-76	J. DREW		REVISION
22	8-10-76	J. DREW		REVISION
23	9-10-76	J. DREW		REVISION
24	10-10-76	J. DREW		REVISION
25	11-10-76	J. DREW		REVISION
26	12-10-76	J. DREW		REVISION
27	1-10-77	J. DREW		REVISION
28	2-10-77	J. DREW		REVISION
29	3-10-77	J. DREW		REVISION
30	4-10-77	J. DREW		REVISION
31	5-10-77	J. DREW		REVISION
32	6-10-77	J. DREW		REVISION
33	7-10-77	J. DREW		REVISION
34	8-10-77	J. DREW		REVISION
35	9-10-77	J. DREW		REVISION
36	10-10-77	J. DREW		REVISION
37	11-10-77	J. DREW		REVISION
38	12-10-77	J. DREW		REVISION
39	1-10-78	J. DREW		REVISION
40	2-10-78	J. DREW		REVISION
41	3-10-78	J. DREW		REVISION
42	4-10-78	J. DREW		REVISION
43	5-10-78	J. DREW		REVISION
44	6-10-78	J. DREW		REVISION
45	7-10-78	J. DREW		REVISION
46	8-10-78	J. DREW		REVISION
47	9-10-78	J. DREW		REVISION
48	10-10-78	J. DREW		REVISION
49	11-10-78	J. DREW		REVISION
50	12-10-78	J. DREW		REVISION

ETCH BOARD		REV.
DRN. P. METZGER	9/3/75	F
CHK'D. J. DREW	10/10/75	
ENG. J. DREW	10/10/75	
PROD. ENG. J. DREW	10/10/75	
PROD. J. DREW	10/10/75	
NEXT HIGHER ASSY.		
D-UA-5411042-00	SIZE CODE	NUMBER
SCALE	D CS	5411042-0-1
SHEET 1 OF 4	DIST.	

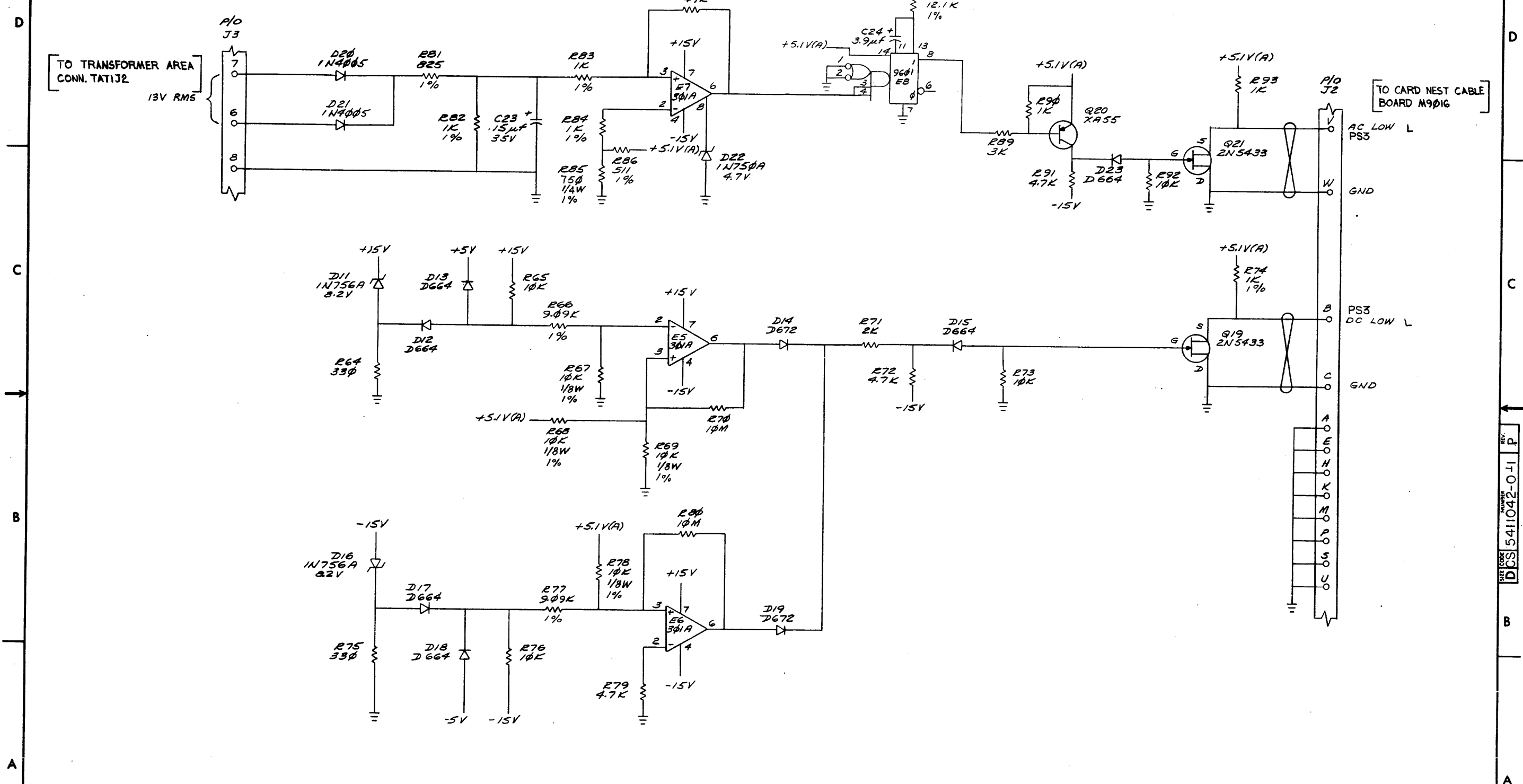
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REVISIONS		
CHK	CHANGE NO.	REV.

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DCS 5411042-0-1

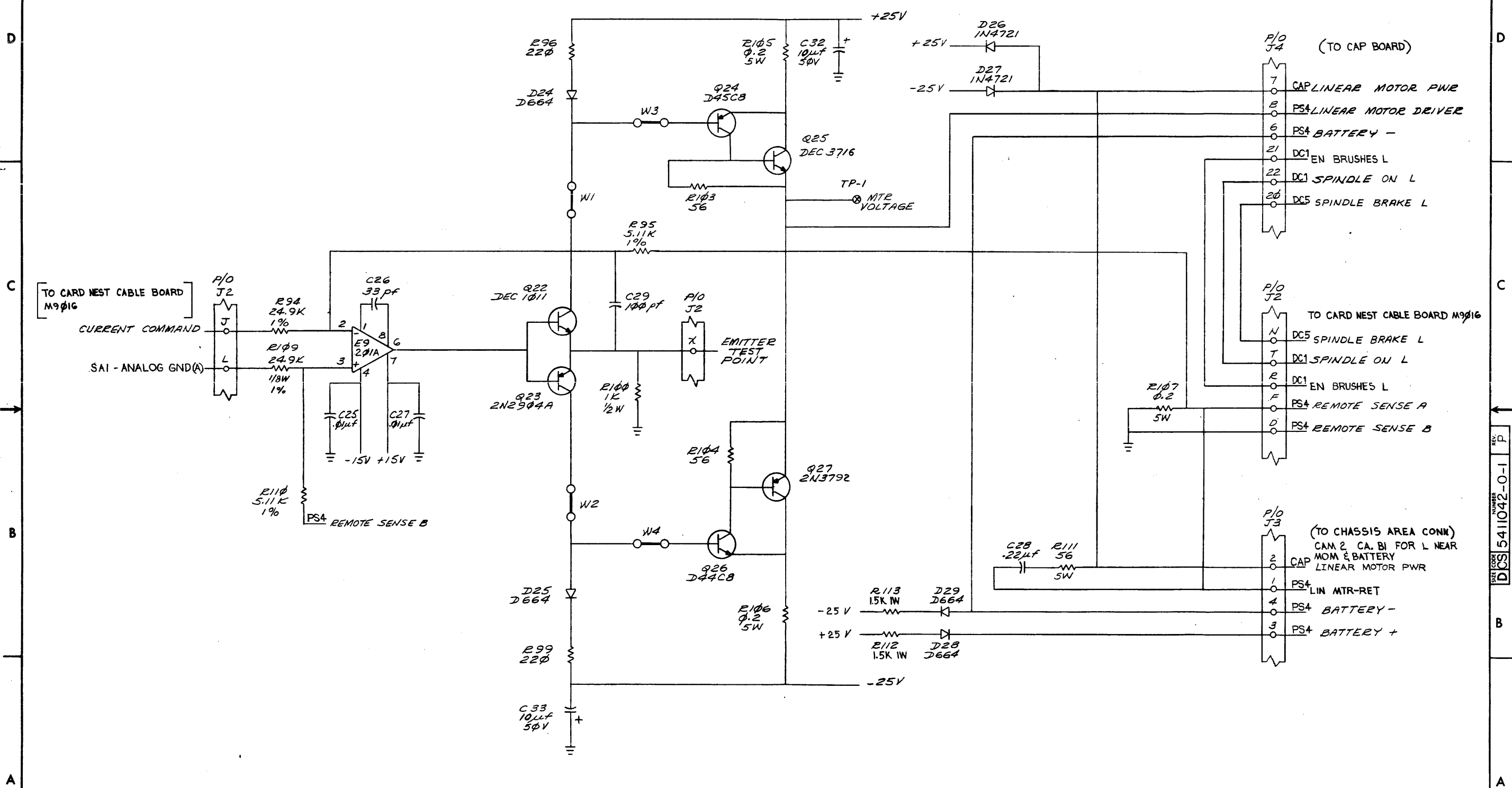


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	H767 POWER SUPPLY (PS3)	SIZE CODE	NUMBER	REV.
SCALE	1/1	SHEET	3 OF 4	DIST.

DCS 5411042-0-1 P

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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	H767 POWER SUPPLY (PS4)	SIZE CODE	D	NUMBER	DCS 5411042-0-1	REV.	P
SCALE	1:1	SHEET	4	OF	4	DIST.	

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	REFERENCE DESIGNATOR
1	1	D-CS-5411042-0-1		H767 POWER SUPPLY		REF
2	2	D-AH-5411042-0-5		ASSY/DRILLING HOLE LAYOUT		REF
3	3	R-MH-5411042-0-6		MODULE ECO HISTORY		REF
4	4		5011041-00	54-11042		REF
5	5		1310876-03	.05 5W 3%		3 R36-R38
6	6		1312683-00	.3 1W 3%		1 R9
7	7		1311467-00	.75 2W 5%		1 R23
8	8		1312684-00	.6 1W 3%		1 R56
9	9		1301317-00	10 1/4W 5%		2 R50,R22
10	10		1300171-00	10 1W 5%		2 R31,R32
11	11		1300202-00	47 1/4W 5%		1 R51
12	12		1300219-00	68 1/4W 5%		2 R2,R49
13	13		1300229-00	100 1/4W 5%		2 R7,R40
14	14		1305143-00	825 1/4W 1% RN55D-F 100PPM		1 R81
15	15		1300316-00	*** THIS ITEM IS NOT USED ***		-
16	16		1302382-00	200 1W 5%		1 R16
17	17		1300271-00	220 1/4W 5%		3 R1,R96,R99
18	18		1300295-00	330 1/4W 5%		3 R42,R64,R75
19	19		1300316-00	470 1/4W 5%		5 R18,R33,R52,P108,R25
20	20		1300319-00	470 1W 5%		1 R19
21	21		1302411-00	511 1/4W 1% RN55D-F 100PPM		1 R86
22	22		1300324-00	511 3/4W 1% RN65D-F 100PPM		1 R15
23	23		1302685-00	909 1/4W 1% RN55D-F 100PPM		1 R85
24	24		1300365-00	1 K 1/4W 5%		4 R4,R90,P93,R26
25	25		1303114-00	1.0 K 1/4W 1% RN55D-F 100PPM		4 R74,R82,R83,R84
26	26		1309143-07	1 K 3/4W 10% POT 100PPM		2 R47,R62
27	27		1301320-00	1.2 K 1/4W 5%		1 R5
28	28		1300364-00	1 K 1/2W 5%		5 R35,R6,R17,P34,R100
29	29		1302388-00	2 K 1/4W 5%		1 R71
30	30		1303062-00	470 2W 5%		1 R21

REVISION HISTORY			SECTION 1 OF 1	RESP. ENG.: J. DREW	DATE: 17-JUL-78	DIGITAL				
ENG.	ECO NUMBER	REV	SECTION VARIATION INDEX	MADE BY: L. METZGER	DATE: 17-JUL-78	TITLE	PARTS LIST			
WE	100010	N				H767 POWER SUPPLY				
M.C.	5411042-ML012	P	1.00	CHECKED: H. DAMAKJIAN	DATE: 17-JUL-78					
			2.							
			3.							
			4.							
			5.							
			6.	DSN. ENG.: J. DREW	DATE: 17-JUL-78		SIZE	CODE	DOCUMENT NUMBER	REV
			7.				K	PL	5411042-0-DBP	P
			8.	PROD.: C. POWELL	DATE: 17-JUL-78					EDIT
			9.							6
			10.	ASSEMBLY NUMBER: D-UA-5411042-0-0					PART NUMBER: 5411042	
			11.							
			12.							

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	REFERENCE DESIGNATOR
31	31		1300432-00	3 K 1/4W 5% CC	1	R89
32	32		1305114-00	3.48 K 1/4W 1% RN55D-F 100PPM	2	R14,R30
33	33		1309413-00	3.83 K 1/4W 1% RN55D-F 100PPM	1	R29
34	34		1303045-00	3.16 K 1/4W 1% RN55D-F 100PPM	1	R50
35	35		1300447-00	4.7 K 1/4W 5% CC	4	R10,R72,R79,R91
36	36		1305324-00	4.99 K 1/4W 1% RN55D-F 100PPM	1	R13
37	37		1304870-00	6.81 K 1/4W 1% RN55D-F 100PPM	2	R61,R63
38	38		1304855-00	9.09 K 1/4W 1% RN55D-F 100PPM	2	R66,R77
39	39		1300479-00	10 K 1/4W 5% CC	4	R65,R73,R76,R92
40	40		1303312-00	10.0 K 1/4W 1% RN55D-F 100PPM	5	R12,R67,R68,R69,R78
41	41		1309415-00	11.5 K 1/4W 1% RN55D-F 100PPM	1	R28
42	42		1303313-00	12.1 K 1/4W 1% RN55D-F 100PPM	5	R44,R45,R46,R48,R88
43	43		1304837-00	24 K 1/4W 5% CC	1	R58
44	44		1302177-00	47 K 1/4W 5% CC	1	R87
45	45		1311337-00	56 5W 5% WW	1	R111
46	46		1304854-00	5.11 K 1/4W 1% RN55D-F 100PPM	2	R95,R110
47	47		1305405-00	24.9 K 1/4W 1% RN55D-F 100PPM	2	R94,R109
48	48		1300319-00	*** THIS ITEM IS NOT USED ***	-	
49	49		1309884-00	.2 5W 5% WW	3	R105-P107
50	50		1302602-00	56 1/4W 5% CC	2	R103,R104
51	51		1300395-00	1.5 K 1W 10% CC	2	R112,R113
52	52		1303177-00	2.4 K 1/4W 5% CC	1	R3
53	53		1309595-00	1 M 1/4W 5% CC	4	R11,R43,R59,P27
54	54		1302666-00	10 M 1/4W 5% CC	2	R70,R80
55	55		1310876-00	.02 5W 3% WW	1	R39
56	56		1302377-00	39 1/4W 5% CC	1	R41
57	57		1300247-00	120 1/4W 5% CC	2	R20,R53
58	58		1300431-00	3 K 1/2W 5% CC	1	R24
59	59		1300309-00	*** THIS ITEM IS NOT USED ***	-	
60	60		1301890-00	560 1/4W 5% CC	1	R54
61	61		1302124-00	18 1/4W 5% CC	2	R57,R8
62	62		1300319-00	470 1W 5% CC	1	R55
63	63		1000042-00	1000.0 MMF 100V 5%200PPM DM15S	1	C15
64	64		1000022-00	270.0 MMF 100V 5%200PPM DM15S	2	C10,C2
65	65		1001610-01	.01 MFD 100V -20+80 25U DISC	16	C1,C3,C4,C5,C6,C8,C9,C11,C14,C16,C19,C21, CONT C25,C27,C30,C31
66	66		1000064-00	3.0MFD 10V 10% 150D S.TA	1	C24
67	67		1002781-00	100 MFD 25V G% 30D AL EL	2	C12,C22
68	68		1010274-00	.22 MFD 50V -20+80 25U CER	1	C13
69	69		1009433-00	190 MFD 12V G% 30D AL FL	1	C18
70	70		1011849-01	600. MFD 25V G%500D AL FL	1	C7
71	71		1000019-00	150.0 MMF 100V 5%200PPM DM15S	1	C20
72	72		1002180-00	.15 MFD 35V 20% 150D S.TA	1	C23
73	73		1000037-00	.22 MFD 100V 10% 663F MYLR	1	C28
74	74		1000009-00	33.0 MMF 100V 5%200PPM DM15S	1	C26
75	75		1000016-00	100.0 MMF 100V 5%200PPM DM15S	1	C29
76	76		1000070-00	10 MFD 50V H% 43D AL FL	2	C32,C33
77	77		1109465-00	MCR 649P2SCR 50V I=20A T041	1	D32

D	I	G	I	T	A	L	TITLE	SECTION	1	OF	1	SIZE	CODE	DOCUMENT NUMBER	REV
							H767 POWER SUPPLY							5411042-0-DBP	P

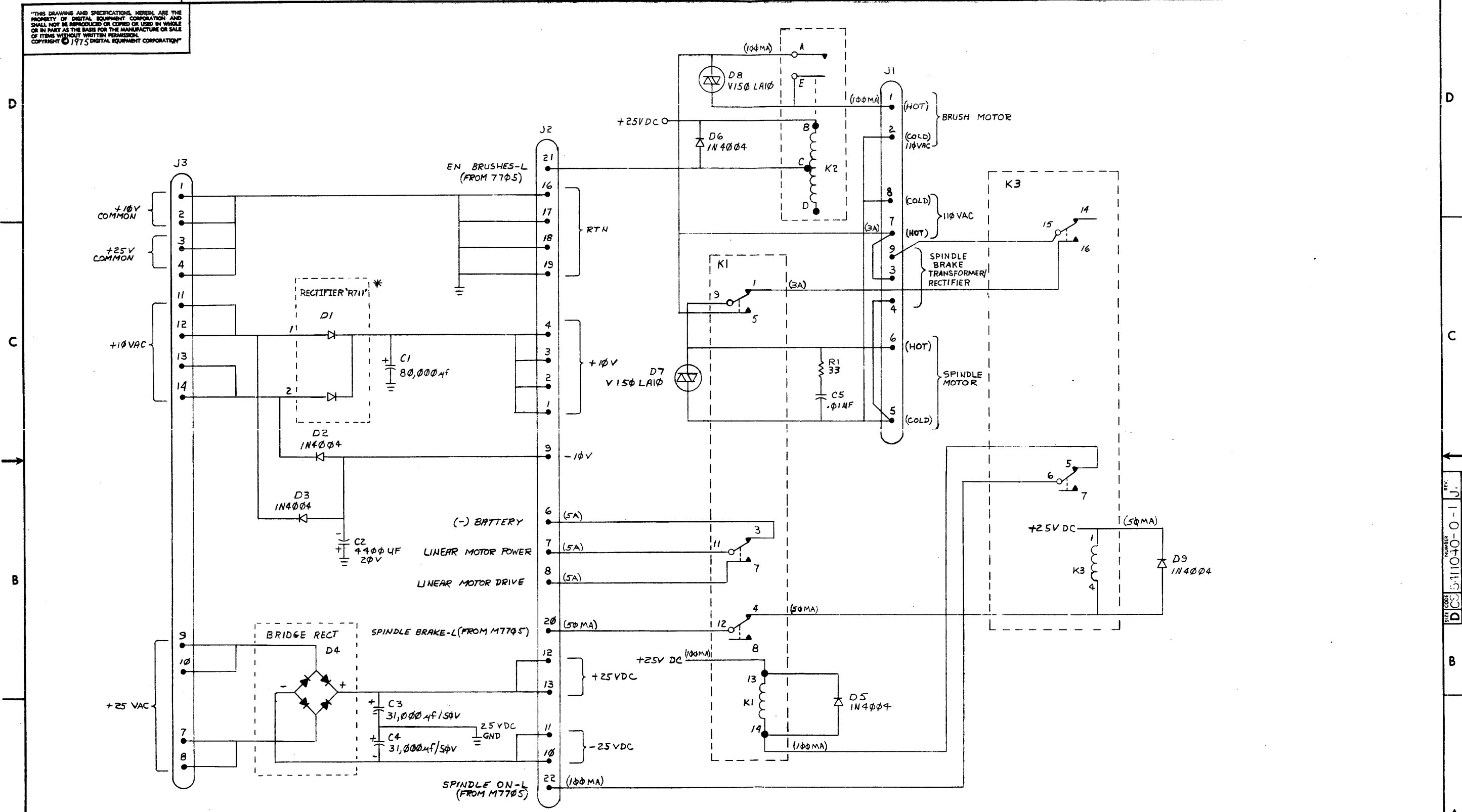
LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	REFERENCE DESIGNATOR
78	78		1100114-00	D 664 QS\75PCB PIV= 25V SP	15	D2,D6,D7,D9,D10,D12,D13,D15,D17,D18,D23,
					CONT	D24,D25,D28,D29
79	79		1105275-00	D 672 TR= 15NS PIV= 60V ST	2	D14,D19
80	80		1100124-00	1N 750A VZ= 4.7 5% .40W P	1	D22
81	81		1103441-00	1N 756A VZ= 8.2 5% .40W P	2	D11,D16
82	82		1105873-00	4M5-1AZ1 VZ= 5.1 1% .400W	3	D3,D4,DR
83	83		1110967-00	1N 4005 PIV=600 I= 1A D041 SI	2	D20,D21
84	84		1110182-00	1N 4721 PIV=200 I= 3A A179ASY	2	D26,D27
85	85		1505819-00	2N 3055 NPN 115WC SI 60 20 Y	4	Q1,Q8,Q9,Q10
86	86		1510959-00	2N 3725 NPN 3.5WC SI 50 60 P	2	Q2,Q12
87	87		1510705-00	XA 05 NPN 500MW SI 60 50 P	1	Q3
88	88		1510377-00	2N 5294 NPN 36WC SI 70 30 M	1	Q16
89	89		1509604-00	DEC4923 NPN 30WC SI 80 20 M	1	Q11
90	90		1510706-00	XA 55 PNP 500MW SI 60 50 P	4	Q6,Q14,Q17,Q20
91	91		1509523-00	2N 3054 NPN 25WC SI 55 25 Y	1	Q5
92	92		1501913-00	2N 2904A PNP 600MW SI 60 40 Y	1	Q23
93	93		1510013-00	DEC1011 NPN 5WC SI 55 25 P	1	Q22
94	94		1510598-00	DEC4508 PNP 27WT SI 60 20 Y	1	Q24
95	95		1510421-00	D 44C8 NPN 30WT SI 60 20	1	Q26
96	96		1503069-00	DEC3716 NPN	1	Q25
97	97		1509581-01	2N 3792 PNP 150WC SI 80 30 M	1	Q27
98	98		1511686-00	DEC5433 FET N 350MW 10 25 1A	2	Q19,Q21
99	99		1910282-00	301AN OP AMP	7	E1-E7
100	100		1909373-00	9601 ONE SHOT,RETRIGGERAB	1	E8
101	101		9008290-00	FUSE, SLO BLOW, 12.000A, 32V, G	1	F1
102	102		1209941-06	HEADER,100 20POS RT ANGLE	1	J2
103	103		1212204-06	HEADER,156 8POS RT ANGLE	1	J3
104	104		1212204-07	HEADER,156 13POS RT ANGLE	1	J1
105	105		1212204-05	HEADER,156 22POS RT ANGLE	1	J4
106	106		1212487-00	HEAT SINK,1"X1.18X.5",XSISTOR&SC	2	
107	107		1212957-00	HEAT SINK,RK05 140WATTS W500FT/M	1	
108	108		9008419-00	WASHER, FLAT, THERMAFILM .002THK	7	
109	109		9007201-00	TRANSIPADS #10253	4	
110	110		9006735-00	EYELET, FUNNEL FLANGE, .059 OD X	9	
111	111		9009786-00	INSULATOR, SEMICONDUCTOR, FOR TO	1	
112	112		9008268-00	COMPOUND, THERMAL JOINT S	A/R	
113	113		1209941-04	HEADER RT ANGLE,RIGHT	1	
114	114		1209941-03	HEADER RT ANGLE LEFT L	1	
115	115		9007203-00	CLIP, FUSE, WITH STOP, SCREW MOU	2	
116	116		9107560-01	WIRE,RUSS,22AWG	4	w1-w4
117	117		9009597-00	INSULATOR, THERMA-FILM S	2	
118	118		9006732-00	EYELET, ROLLED FLANGE, .121 OD X	2	
119	119		9007793-01	SCREW,PAN ,PHIL, 6-32X 9/16	16	
120	120		9008185-00	NUT,KEP , 6-32X1/4 AF	16	
121	121		9006653-00	WASHER, FLAT, .375 O.D. X .156 I	13	
122	122		9006012-01	SCREW,PAN ,PHIL, 4-40X 7/16	2	
123	123		9006655-00	WASHER, FLAT, .312 O.D. X .125 I	5	
124	124		9006557-00	NUT,KEP , 4-40X 1/4 AF	4	

D	I	G	I	T	A	L	TITLE	SECTION	1	OF	1	SIZE	CODE	DOCUMENT NUMBER	REV
							H767 POWER SUPPLY							5411042-0-DBP	P

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	REFERENCE DESIGNATOR
125	125		9008033-01	SCREW,PAN ,PHIL, 4-40X 9/16	2	
126	126		9009769-00	WASHER, RECTANGULAR .405X.225X.0	3	
127	127		1010978-36	.1 MFD 50V 10% 2C067 CER	1	C17
128	128		1209159-00	FUSE, SUB-MINI, .500A, 125V, A	1	F2
129	129		9107278-11	*** THIS ITEM IS NOT USED ***	-	
130	130		1512212-00	DEC8098 NPN 350MW SI 60 50	2	Q4,Q13
131	131		1512211-00	DEC8598 PNP 350MW SI 60 50	2	Q7,Q18
132	132		9107688-22	*** THIS ITEM IS NOT USED ***	-	
133	133		9006708-00	WASHER, NYLON, FLAT #8 .375 OD	3	
134	134		1911143-00	DEC 201A OP AMP	1	E9

D I G I T A L				TITLE	SECTION 1 OF 1		SIZE	CODE	DOCUMENT NUMBER	REV
				H767 POWER SUPPLY			K	PL	5411042-0-DRP	P

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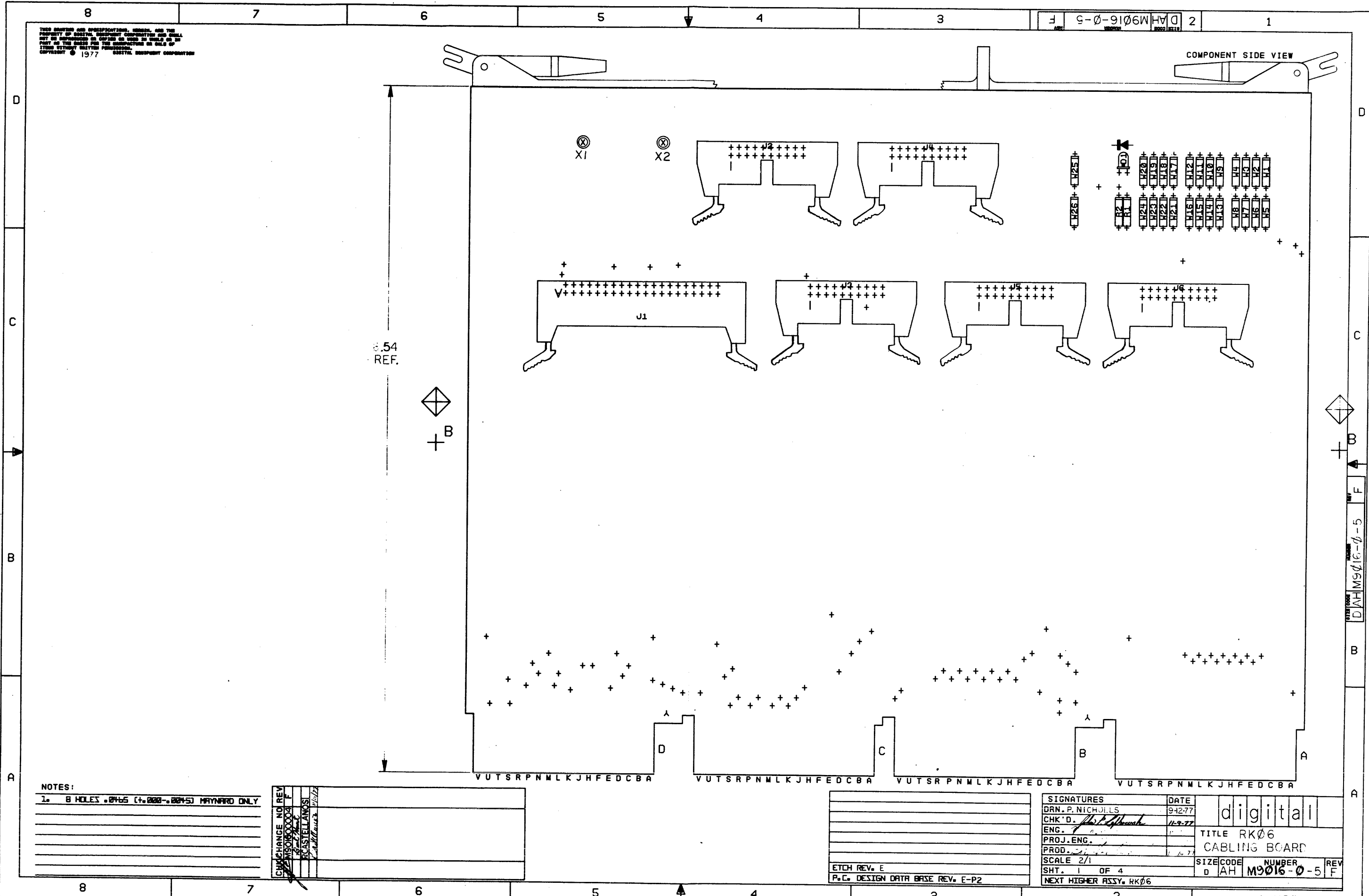
* COMPONENT IS MOUNTED ON HEAT SINK.

REVISIONS		
CHK	CHANGE NO.	REV.

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D/AH M9016-0-5 F 2

COMPONENT SIDE VIEW



NOTES:
 1. B HOLES .0745 (+.000-.0015) MAYNARD ONLY

CHANGE NO	REV	DATE	BY

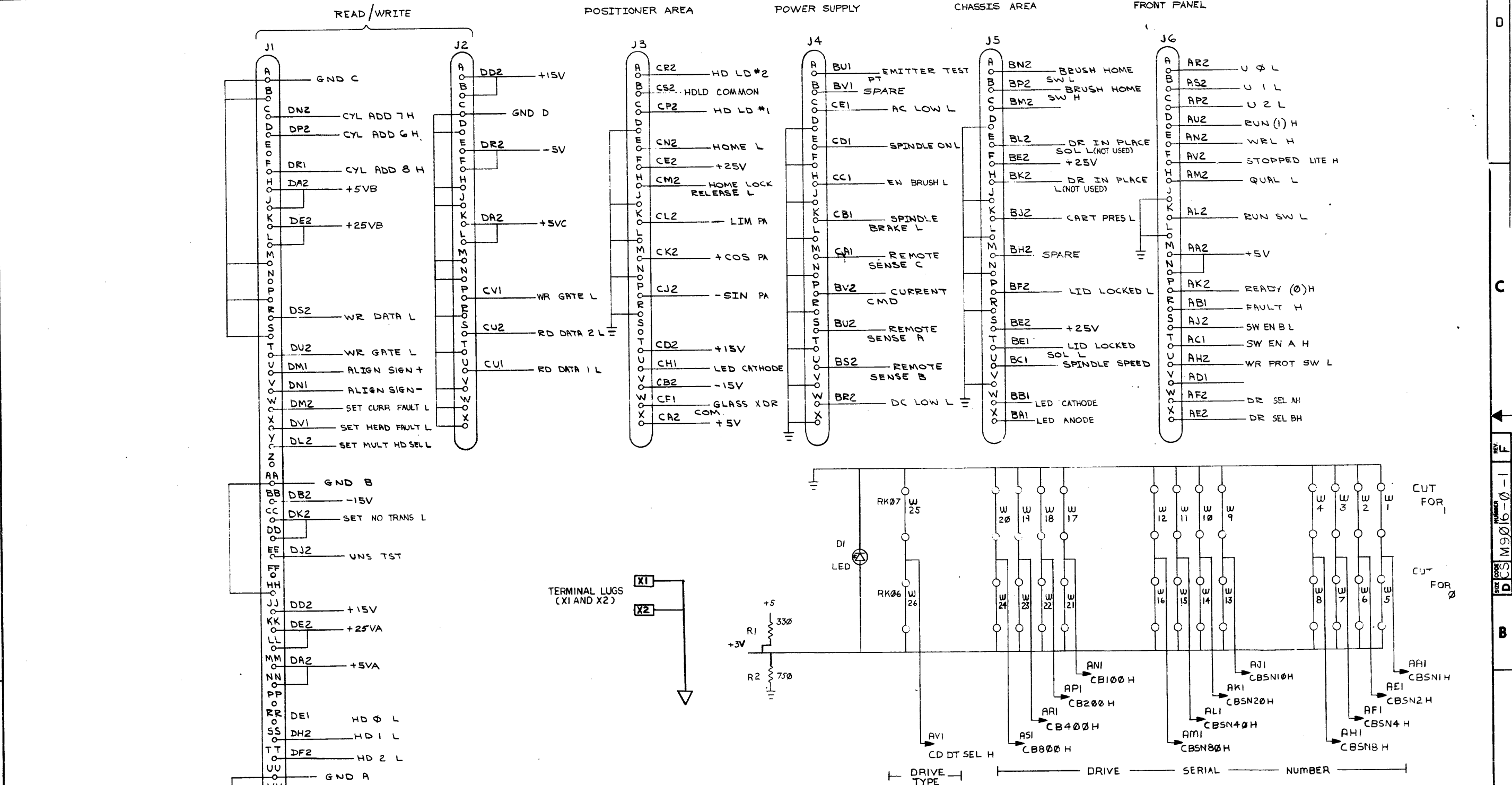
ETCH REV. E
P.C. DESIGN DATA BASE REV. E-P2

SIGNATURES	DATE
DRN. P. NICHOLS	9-2-77
CHK'D. <i>[Signature]</i>	11-9-77
ENG.	
PROJ. ENG.	
PROD.	
SCALE 2/1	
SHT. 1 OF 4	
NEXT HIGHER ASSY. RK06	

digital
TITLE RK06
CABLING BOARD
SIZE CODE NUMBER REV
D/AH M9016-0-5 F

1 MS#

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REVISIONS	CHANGE NO.	REV.	C
CHK	17	M9016-0001	C
	18	M9016-0002	D
	19	M9016-0003	E
	20	M9016-0004	F

DEC FORM NO. 100-1
DND 100-1

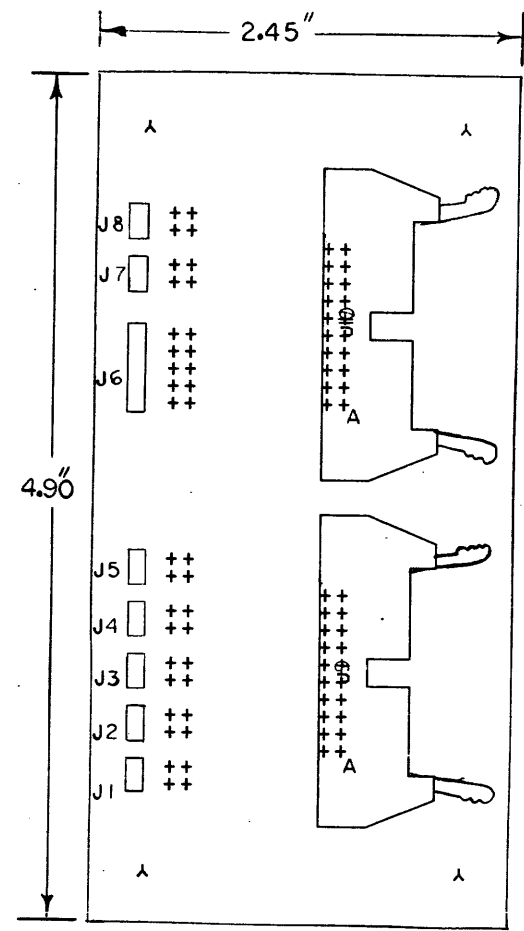
NOTE: ONE JUMPER OF EACH PAIR MUST BE CUT, OTHERWISE +3V WILL BE SHORTED TO GROUND. LED DI, WHEN LIT, INDICATES +3V IS NOT SHORTED TO GROUND.

DRN'D	8-25-75	FIRST USED ON	RK06
CHK'D	17 FEB 76	TITLE	digital
ENG.	18 MAR 76	RK06 CABLING BOARD	
PROJ. ENG.	18 MAR 76	SIZE	CODE
PROD. ENG.	17 MAR 76	D-UA-M9016-0-0	D CS M9016-0-1
NEXT HIGHER ASSY.		SCALE	NUMBER
		1	1
		SHEET	REV.
		1	F

REV. F
NUMBER DCS M9016-0-1
SIZE CODE

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COMPONENT SIDE VIEW



NOTES:

CHK/CHANGE NO	REV
5411893-1	A

SYMBOL	HOLE DATA									
	+	△	X	↑	Z	W	△	□	◇	*
FIN HOLE SIZE	.042	.218								
PLATED	X									
NON PLATED		X								
QTY.	78	4								
○-OFF GRD HLE										
DRILL SIZE										

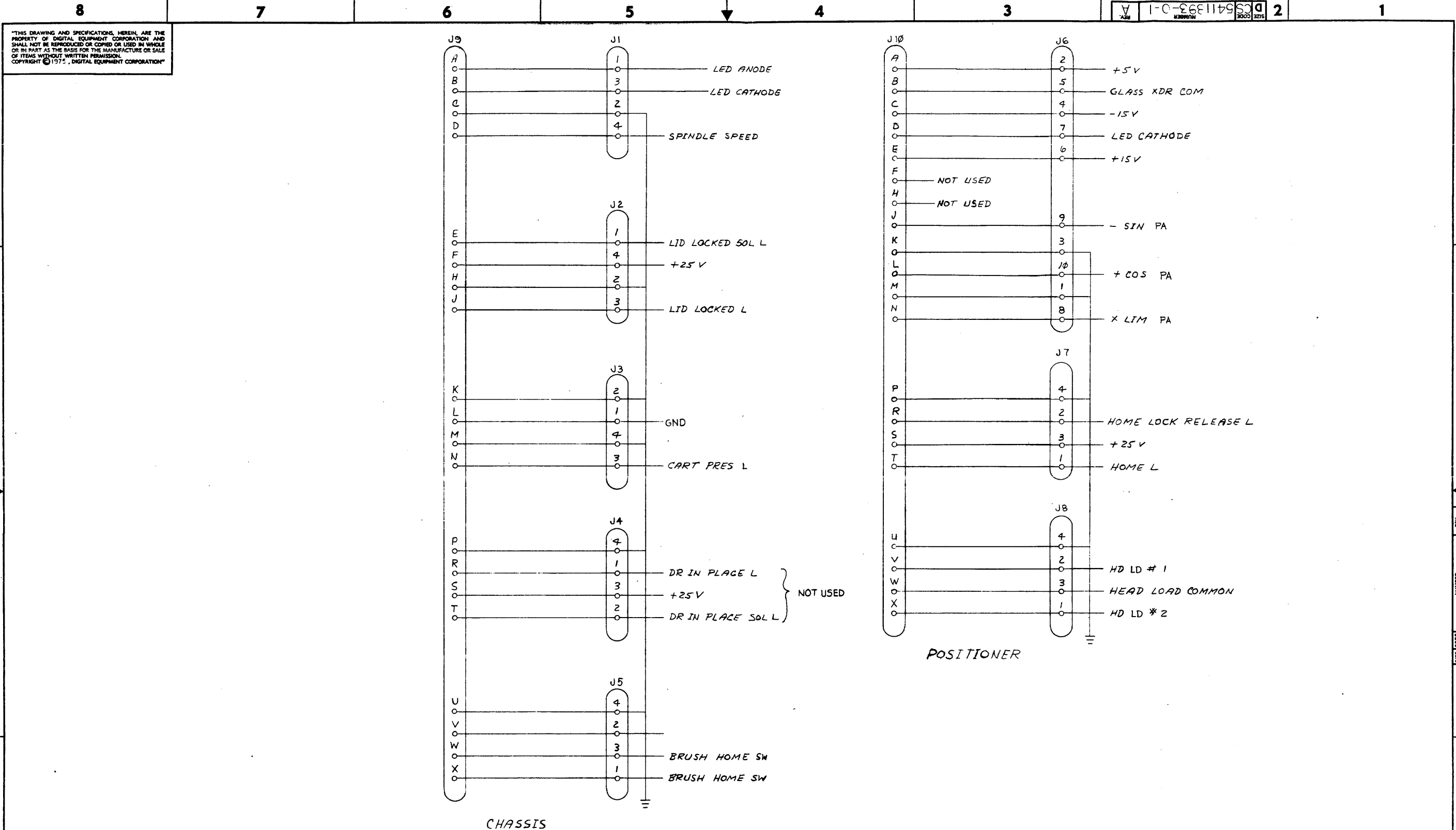
BOARD FABRICATION INFORMATION	
PANEL SIZE	5.055 X 11.750
PANEL DATA DWG.#	MD-MD-7605819-0-0
PANEL MAT'L	.052 THK.
QTY. OF LAYERS	2
COPPER THICKNESS	1 OZ 2 SIDES
PTH. X	PRINT AND ETCH

SIGNATURES	DATE
DRN. E.G. WATSON	8-M-76
CHK'D. W. F. ...	5-FEB-76
ENG. S.C. ...	5-FEB-76
PROJ. ENG. ...	5-FEB-76
PRD.	
SCALE	2:1
SHT.	1 OF 4
ETCH REV	A

digital		
TITLE RK06		
TRANSITION BOARD		
SIZE	CODE	NUMBER
D	AH	5411893-0-5
REV	A	
ETCH REV A FIRST USED ON RK06		

1 MS#80764

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REVISIONS	NO.	DATE	BY
1	5411893-0-0	12 SEP 75	M. CASTELLANI
2	5411893-0-1	19 MAR 76	M. CASTELLANI

ETCH BOARD REV A		FIRST USED ON	RK06	digital
DRN: M. Pavia	12 SEP 75	TITLE	RK06	
CHK: D. W. Nason	12 SEP 75	TRANSITION BOARD		
ENG: E. Johnson	18 MAR 76	SIZE	CODE	NUMBER
PROJ. ENG: E. Johnson	18 MAR 76	D	CS	5411893-0-1
PROD: C. Brown	19 MAR 76	SCALE	REV.	A
NEXT HIGHER ASSY.	D-UA-5411893-0-0	SHEET	1	OF 1

REV. A
NUMBER 5411893-0-1
SIZE D

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DRAWING NUMBER	INIT REL	AUTOMATIC WIRE TESTER (AWT) REVISION STATUS														REV P
	T3	A	B	C	D	E	E	F	H	H	J	J	J	K		
K-WL-7012474-0-DBW	*	A	B	C	D	E	E	F	H	H	J	J	J	K		
D-AD-7012474-0-0	*	A	B	B	B	C	D	D	D	D	D	E	F	H		
D-CS-5411864-0-1	C	C	C	C	C	C	C	C	C	D	D	D	D	D		
D-IA-7011626-0-0	*	*	*	*	*	*	*	*	*	*	B	B				
A-DC-7411881-0-0	*	*	*	*	*	*	*	*	*	*	*	*				

SIZE CODE
A WT
NUMBER
7012474-0
REV
P

REVISIONS		REV.
CHK	CHANGE NO.	
	7012474-00001	A
AL	7012474-00002	B
RW	7012474-00003	C
MC	7012474-00004	D
MC	7012474-00005	E
PS	7012474-00007	F
SEP	7012474-00008	H
SEP	7012474-00009	J
WAE	5411864-00002	K
MC	7012474-00010	L
SEP	7012474-00013	M
SEP	7012474 MLO14	N
SEP	7012474-MLO15	P


DRN. W. Major	DATE 20 APR 76		EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
CHK'D. W. Major	DATE 20 APR 76		
ENG. Walt Duda	DATE 4/20/76	TITLE RK06 (SINGLE PORT) AWT REVISION STATUS	
PROG. ENG. C. Brennan	DATE 4/20/76	SIZE CODE A WT	NUMBER 7012474-0
PROG. C. Brennan	DATE 4/20/76		REV. P.
FIRST USED ON RK06		DIST.	
SCALE ++	SHEET 1 OF 1		

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NOTES:

1. THE ROUTING OF SOME WIRES ARE CRITICAL. ANY ROUTING CHANGE MUST HAVE ENGINEERING APPROVAL.

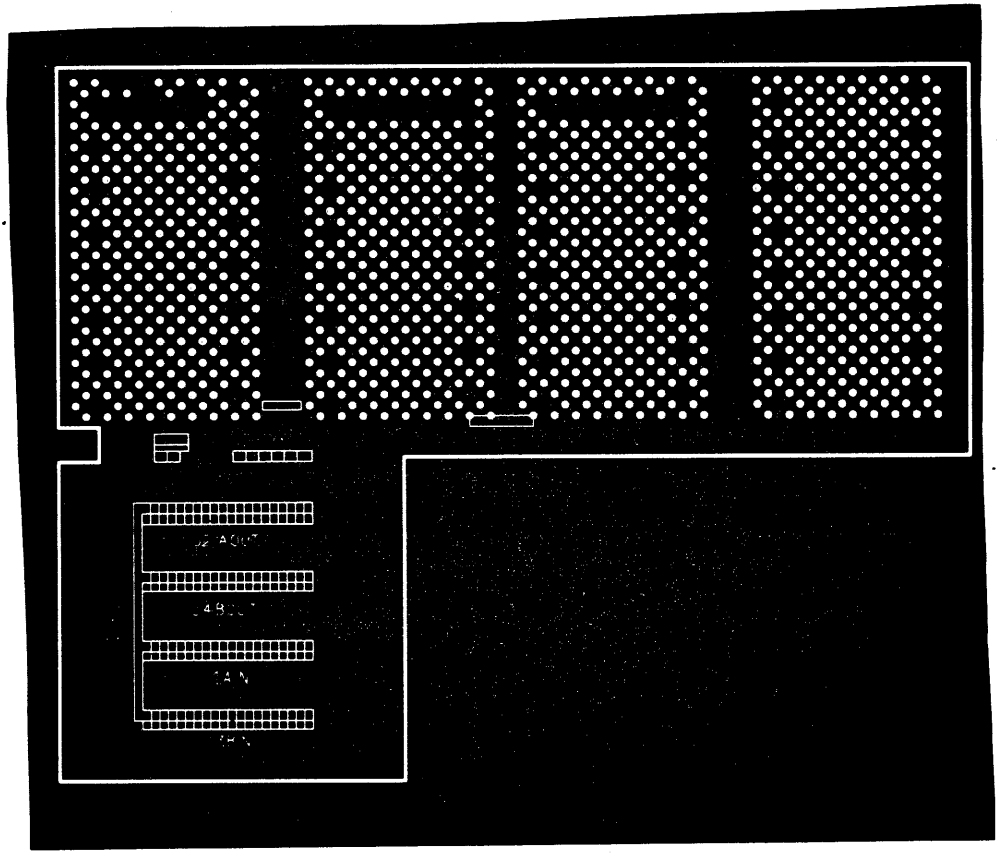
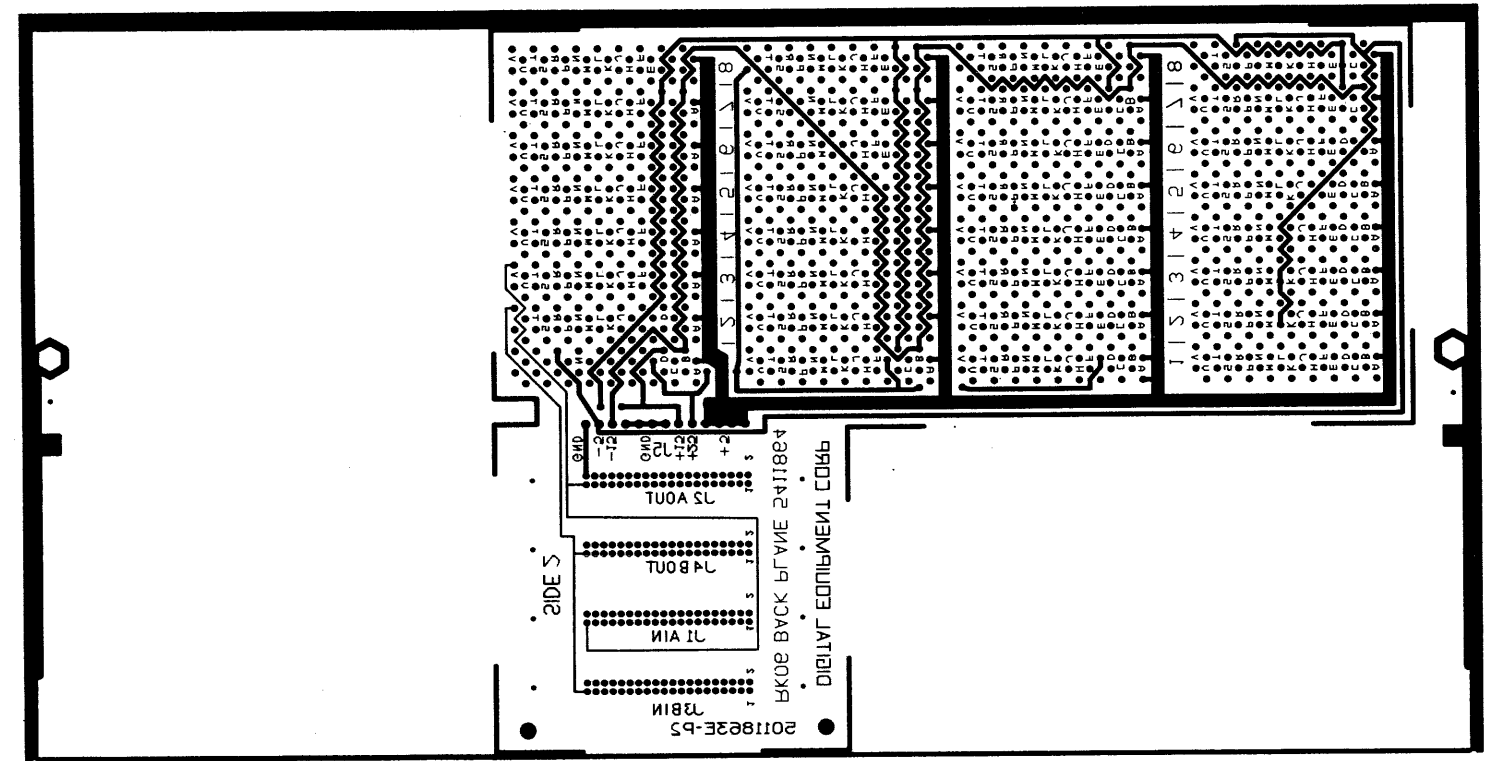
FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RK06				
PARTS LIST				
DRN. <i>w. Major</i>	DATE 20/APR/76	 DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS WIRE LIST (SINGLE PORT)		
CHK'D. <i>w. Major</i>	DATE 20/APR/76			
ENG. <i>Wall Data</i>	DATE 4/20/76			
PROJ. ENG. <i>Greenber</i>	DATE 4/20/76			
PROJ. <i>Greenber</i>	DATE 4/20/76			
NEXT HIGHER ASSEMBLY D-AD-7012474-0-0		SIZE CODE K WL	NUMBER 7012474-0-DBW	REV. K
SCALE ++				
SHEET 1	OF 1	DIST.		

REVISIONS	CHANGE NO.	REV.
	7012474-00001	A
<i>MC</i>	7012474-00002	B
<i>RW</i>	7012474-00003	C
<i>MC</i>	7012474-00004	D
<i>MC</i>	7012474-00005	E
<i>MC</i>	7012474-00008	F
<i>MC</i>	7012474-00009	H
<i>MC</i>	7012474-00010	J
<i>SA</i>	7012474-ML015	K

REV. NUMBER 7012474-0-DBW K

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2 J

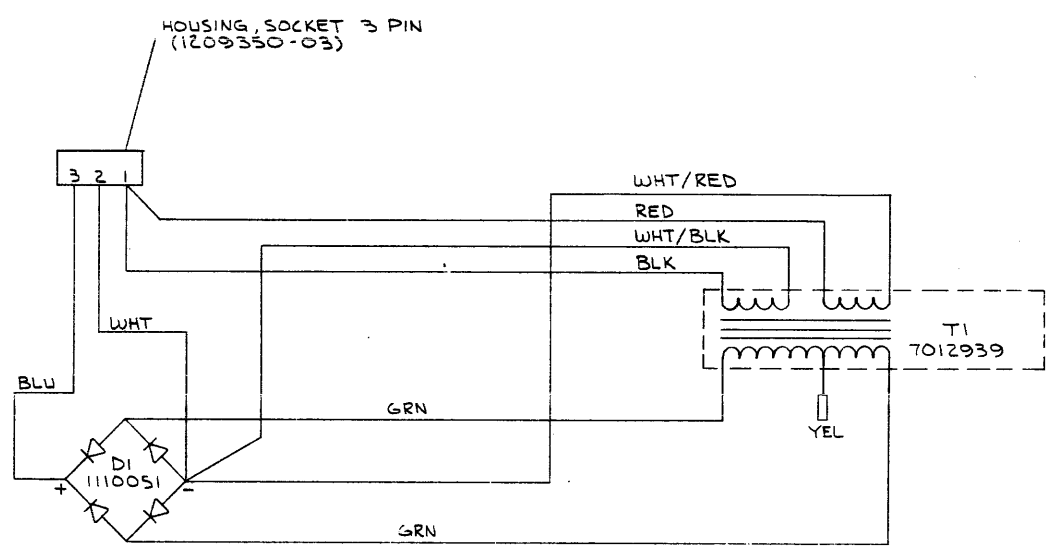


NOTES:

CHANGE NO.	REV.	DESCRIPTION
00002	D	REVISED & RE-DRAWN

SIGNATURES	DATE	digital
DRN. Bud Q Hunt	7 SEPT 77	
CHK'D. J. J. [unclear]	27 SEP 77	
ENG. J. [unclear]	18 SEP 77	TITLE
PROJ. ENG. [unclear]	13 SEP 77	RK06 BACK PLANE
SCALE 1/1		SIZE CODE NUMBER
GHT. 1 JF 1		D CS 5411864-0-1 D
ETCH REV E FIRST USED ON RK06		

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REV.	
CHANGE NO.	
CHK.	

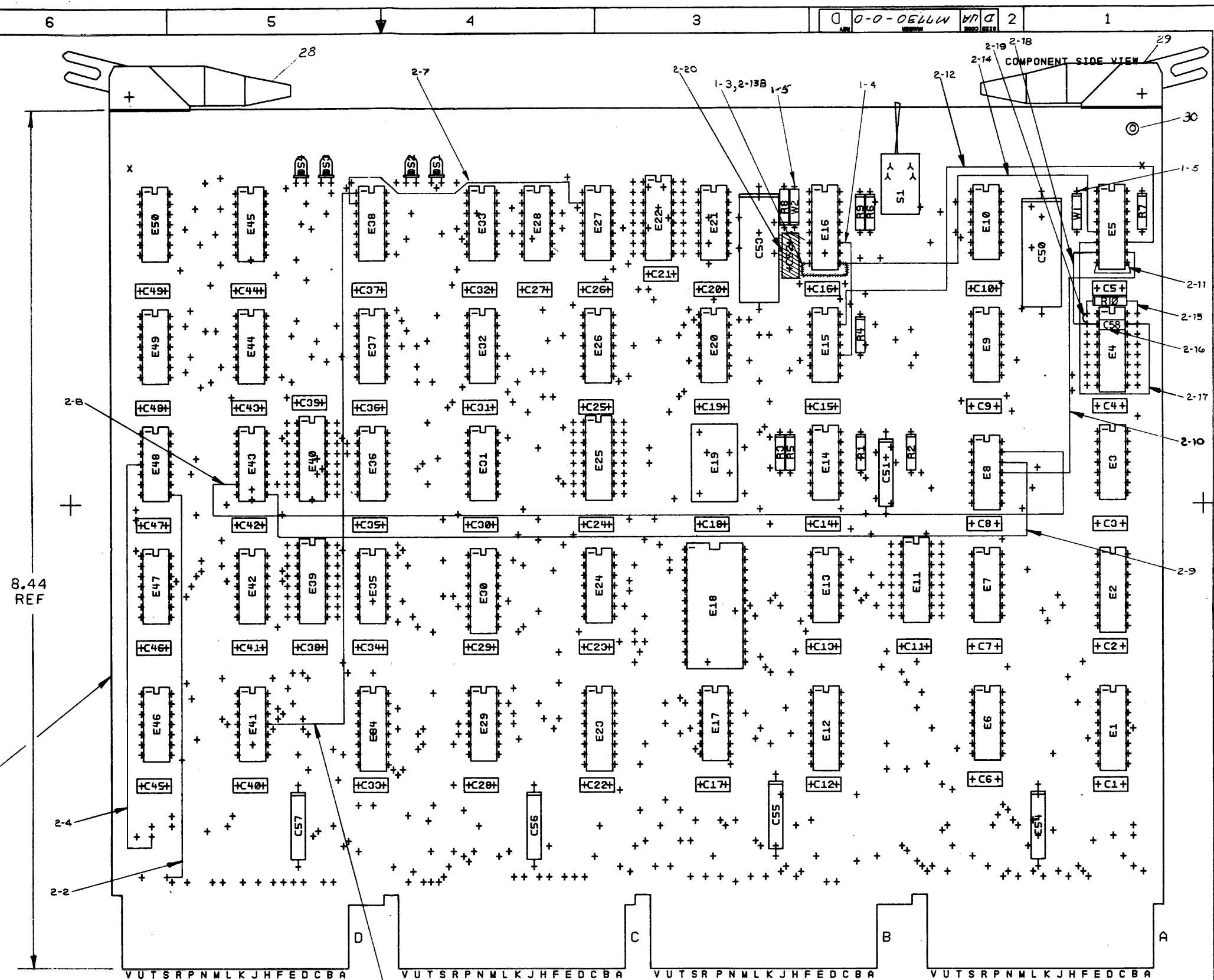
DRN. <i>J. Cole</i>	30-Jan-76	FIRST USED ON	RK06 digital
CHK'D. <i>Wm</i>	21-Jul-76	TITLE	SPINDLE BRAKE ASSY (CIRCUIT SCHEMATIC)
ENG. <i>Phelps</i>	23-Jul-76	SCALE: NONE	
PROJ. ENG. <i>Phelps</i>	23-Jul-76	SHEET 1 OF 1	
PROD. <i>Phelps</i>	17-Jun-76		
NEXT HIGHER ASSY.			
AD-7012940-0-0	SIZE CODE D	NUMBER	CS7012940-0-1

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REWORK INSTRUCTIONS

- ECO #1**
- 1-1. CUT ETCH AT E16-9, SIDE 2
 - 1-2. CUT ETCH AT E16-11, SIDE 2
 - 1-3. ADD WIRE FROM E16-8 TO E16-9
 - 1-4. ADD WIRE FROM E15-10 TO E16-11
 - 1-5. REMOVE DIAND D2 AND REPLACE WITH JUMPERS W1 & W2 RESPECTIVELY

- ECO #2**
- 2-1. TRACE ETCH FROM DS1 TO SIDE 2 OF THE MODULE, CUT ETCH JUST ABOVE FEED THROUGH.
 - 2-2. RUN WIRE FROM DS1 FEED THROUGH TO E48-8.
 - 2-3. TRACE ETCH FROM DS2 TO SIDE 1 OF MODULE, CUT ETCH BETWEEN FEED THROUGH.
 - 2-4. RUN WIRE FROM DS2 FEED THROUGH TO E48-4.
 - 2-5. RUN WIRE FROM E41-11 TO E38-1.
 - 2-6. CUT ETCH AT E27-2 ON SIDE 2 OF THE MODULE.
 - 2-7. ADD WIRE FROM E38-2 TO E27-2.
 - 2-8. ADD WIRE FROM E43-6 TO E8-13.
 - 2-9. ADD WIRE FROM E43-8 TO E8-12.
 - 2-10. ADD WIRE FROM E8-11 TO E5-10.
 - 2-11. ADD WIRE FROM E5-9 TO E5-8.
 - 2-12. ADD WIRE FROM E5-11 TO E15-13.
 - 2-13A. IF MODULE HAS ETCH TO E16-9, CUT ETCH TO E16-9. (ON SIDE 2 OF MODULE.)
 - 2-13B. IF MODULE HAS WIRE FROM E16-9 TO GROUND, REMOVE WIRE FROM E16-9 TO GROUND.
 - 2-14. ADD WIRE FROM E5-5 TO E16-9.
 - 2-15. INSERT A 10K RES. (R10) INTO E4-1 TO E4-16.
 - 2-16. INSERT A 100PF CAP. (C58) INTO E4-2 TO E4-15.
 - 2-17. ADD WIRE FROM E5-6 TO E4-15.
 - 2-18. ADD WIRE FROM E5-7 TO E4-2.
 - 2-19. ADD WIRE FROM E4-1 TO E4-2.
 - 2-20. REMOVE C52 FROM MODULE.



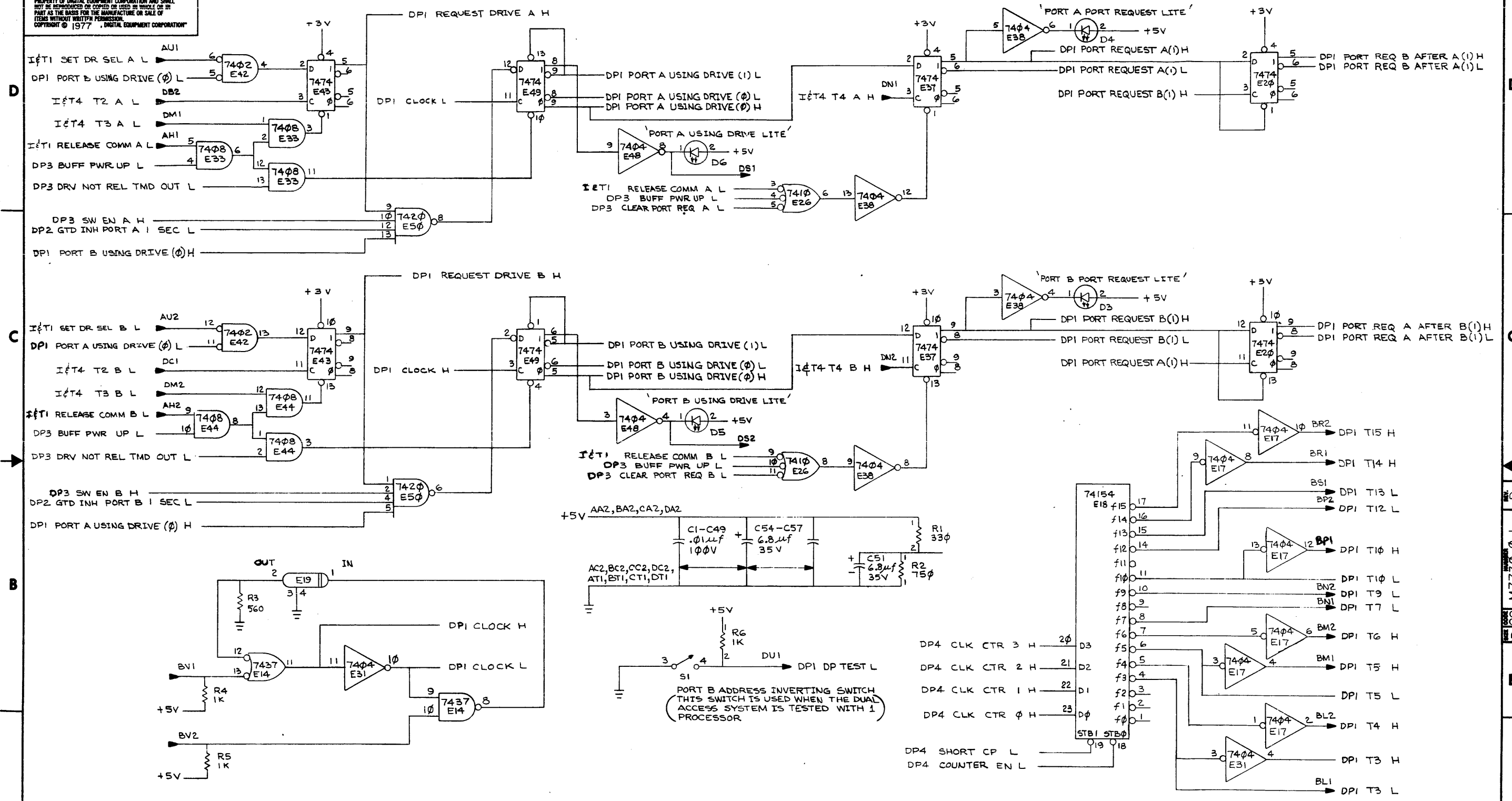
NOTES:

CHG	NO	REV	DATE	BY
M7730	-1	C	4-11-77	R. WOLFF
M7730	-1	C	4-11-77	R. WOLFF
M7730	-2	D	5-11-77	R. WOLFF
M7730	-2	D	5-11-77	R. WOLFF

ETCH REV. C	P.C. DESIGN DATA BASE REV. — CL
-------------	---------------------------------

SIGNATURES		DATE	digital
DRN. R. Wolff	4-11-77		
CHK'D. R. Wolff	4-11-77		
ENG. R. Wolff	5-11-77		
PROJ. ENG. R. Wolff	5-11-77		
PROD. R. Wolff	5-11-77		
SCALE 2:1	SHEET 1 OF 3	TITLE	RK06
NEXT HIGHER ASSY. B-DD-M7730-C		SIZE CODE	NUMBER
		D UA	M7730-0-0
		REV	D

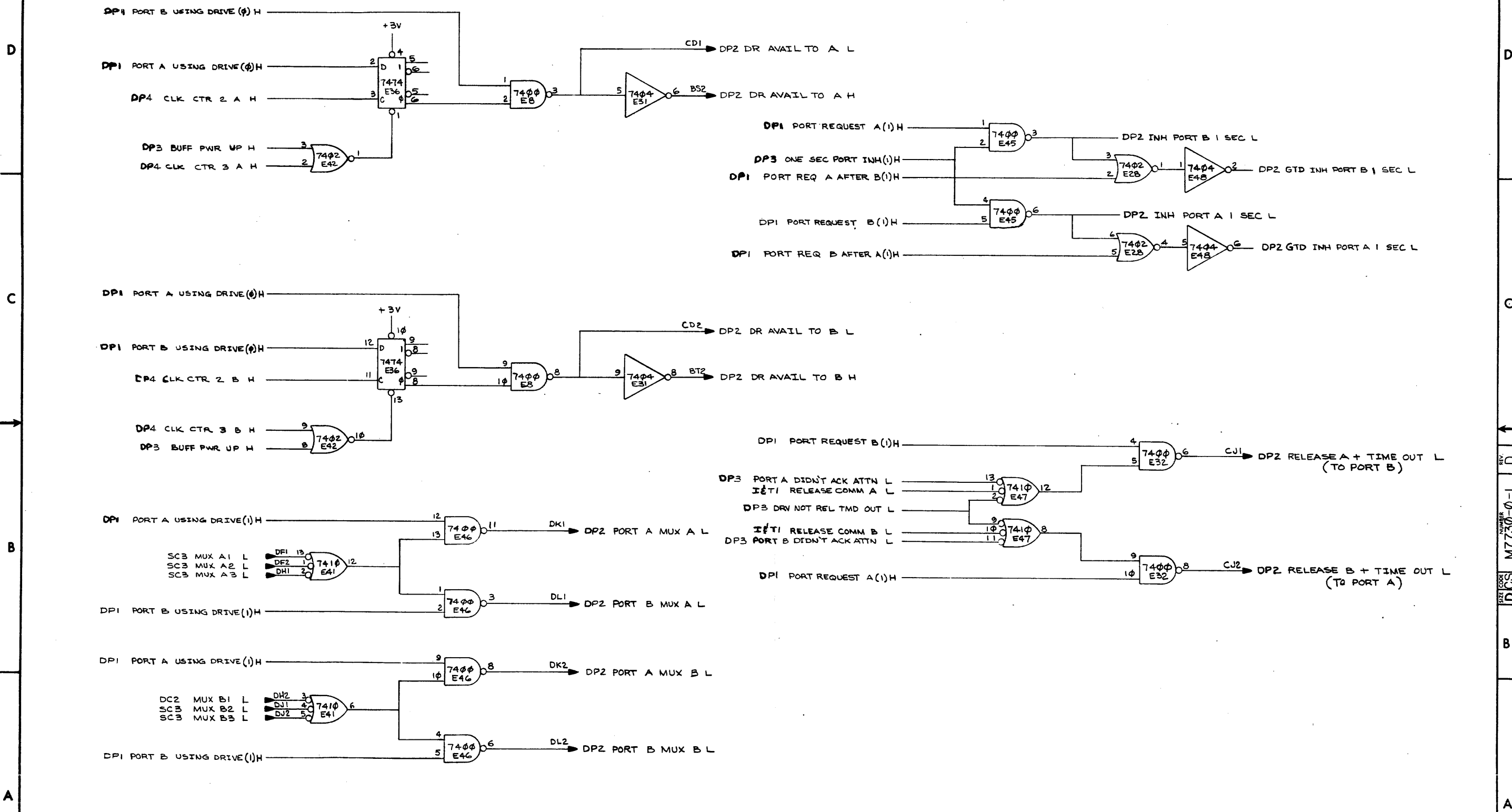
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REV.	CHANGE NO.	DATE	BY	CHK
1	00001	12 NOV 77	R. WOLFF	
2	00002	12 NOV 77	R. WOLFF	

DRN. 3	3/11/77	FIRST USED ON	RK06
CHK'D	14 APR 77	TITLE	RK06 DUAL PORT LOGIC (DPI)
ENG. R. WOLFF	14 APR 77	PROD. DATE	12 NOV 77
PROJ. ENG. R. WOLFF	12 NOV 77	NEXT HIGHER ASSY.	
SCALE	1:1	SIZE	D
SHEET	1 OF 4	NUMBER	M7730-0-1
		REV.	D

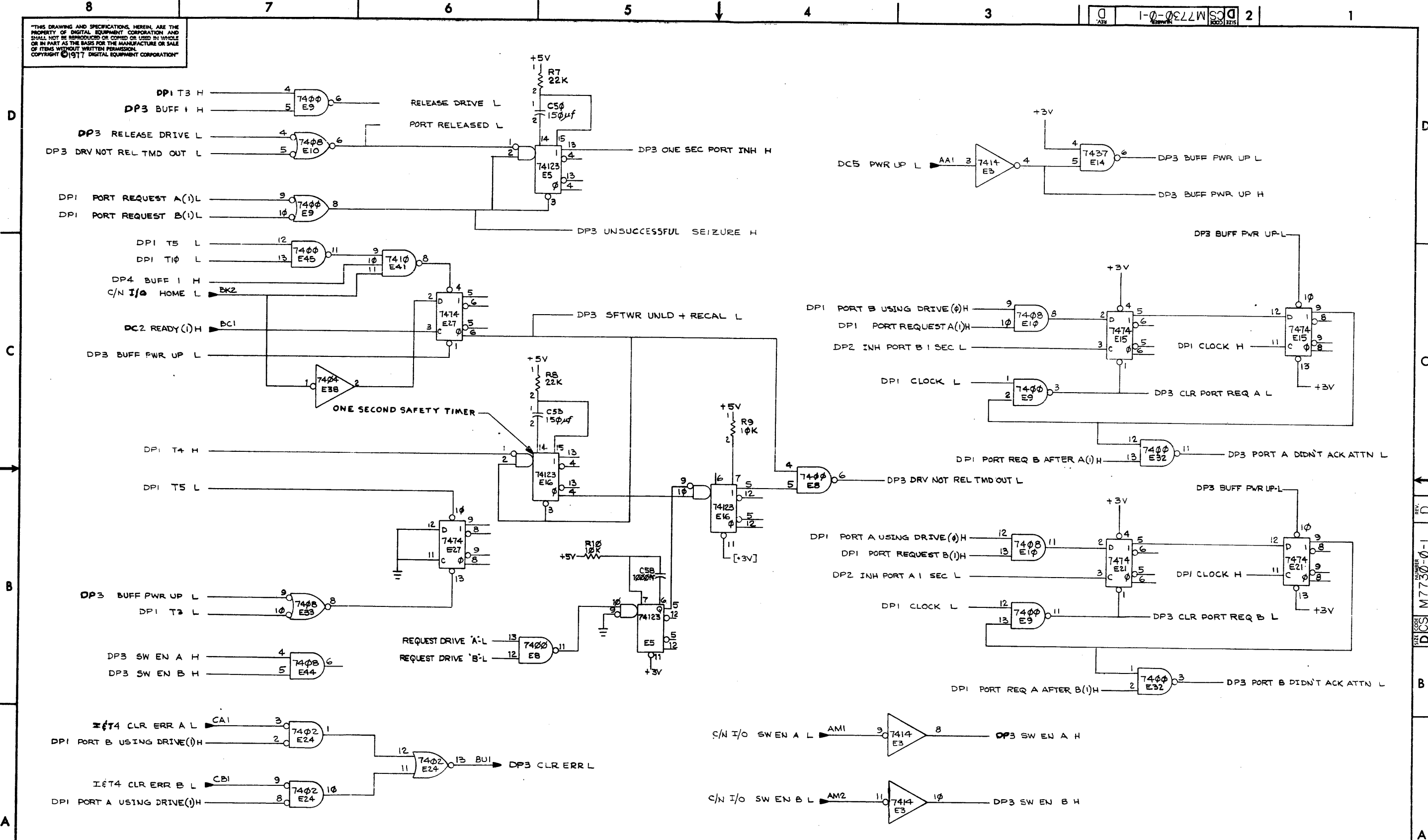
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REVISIONS		
CHK	CHANGE NO.	REV.

REV. D
NUMBER M7730-0-1
FILE LOCK DCS

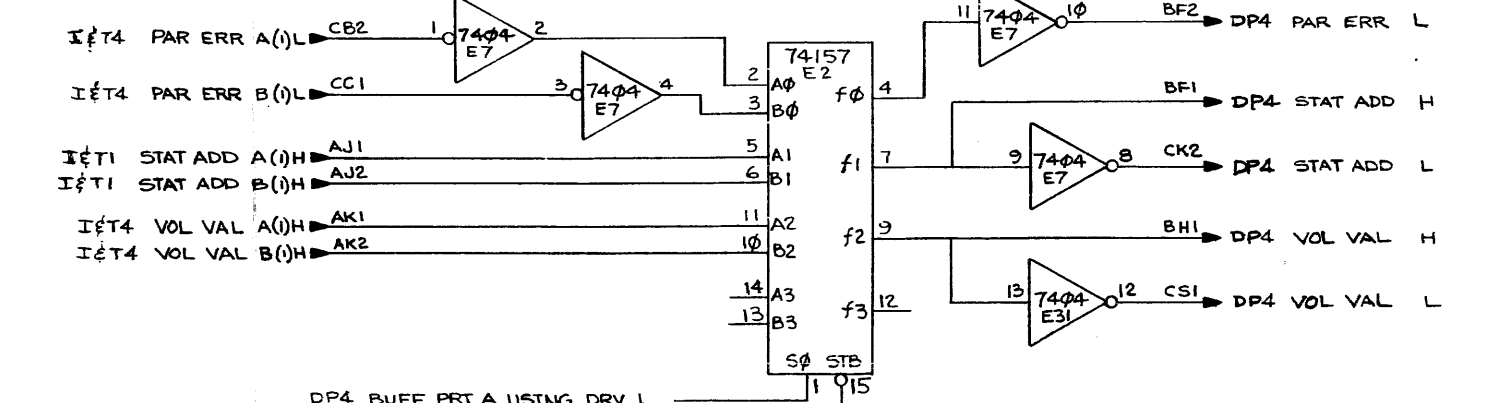
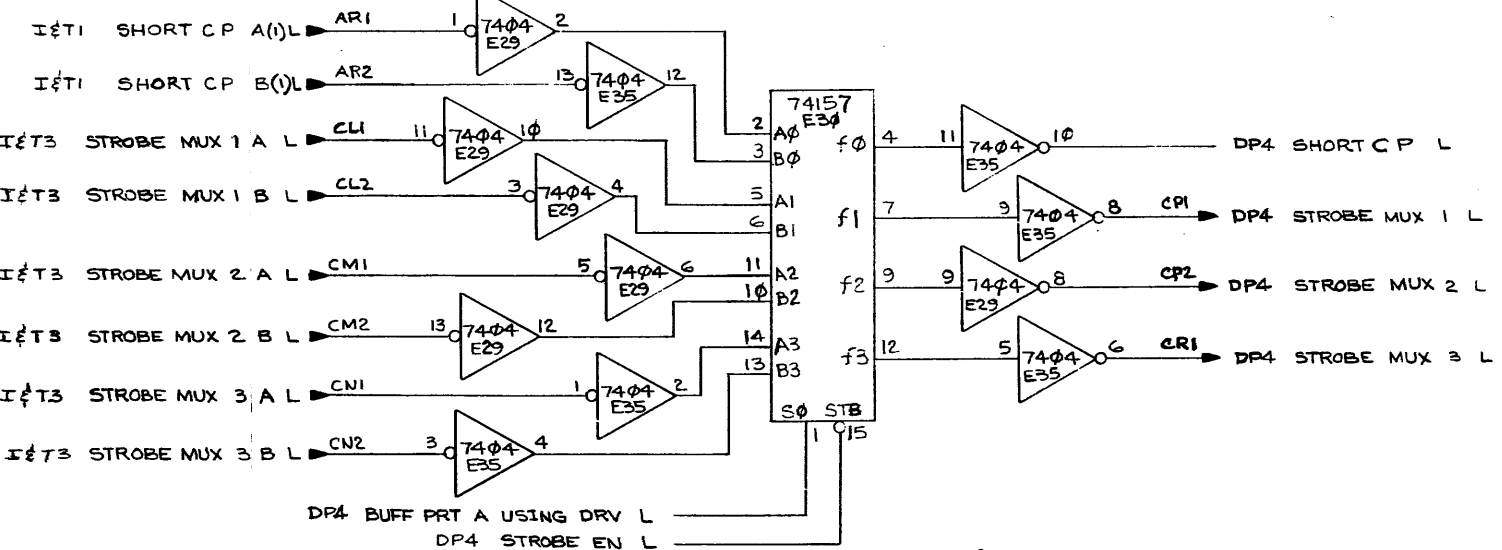
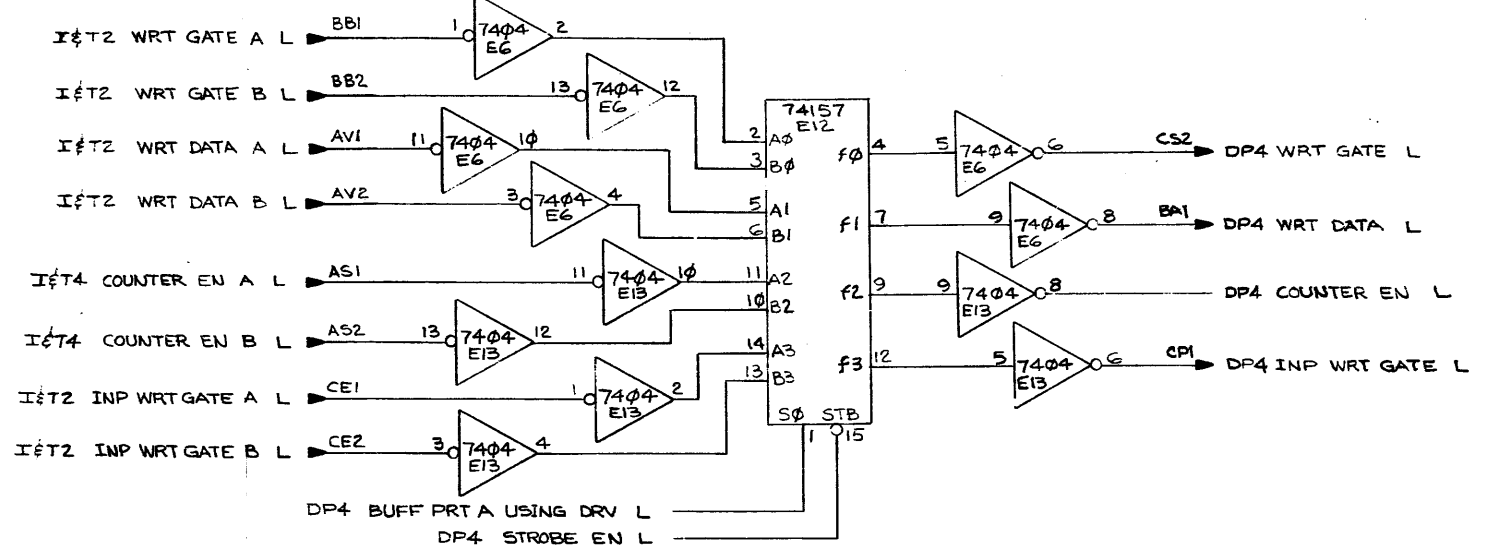
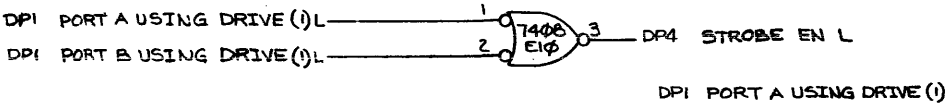
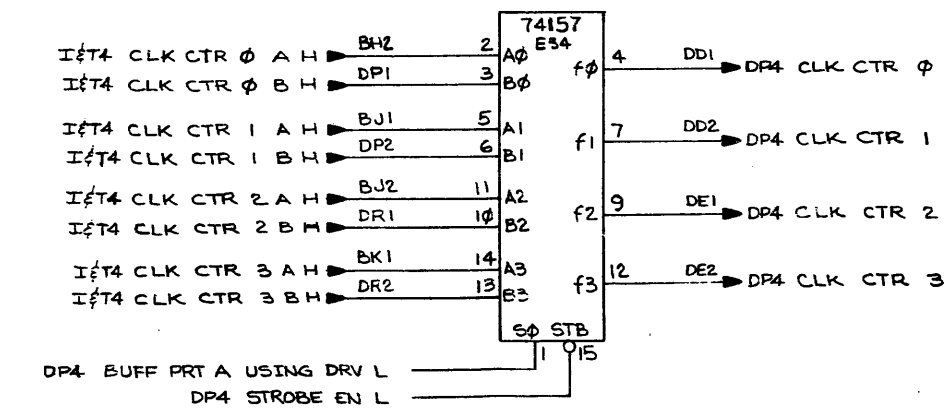
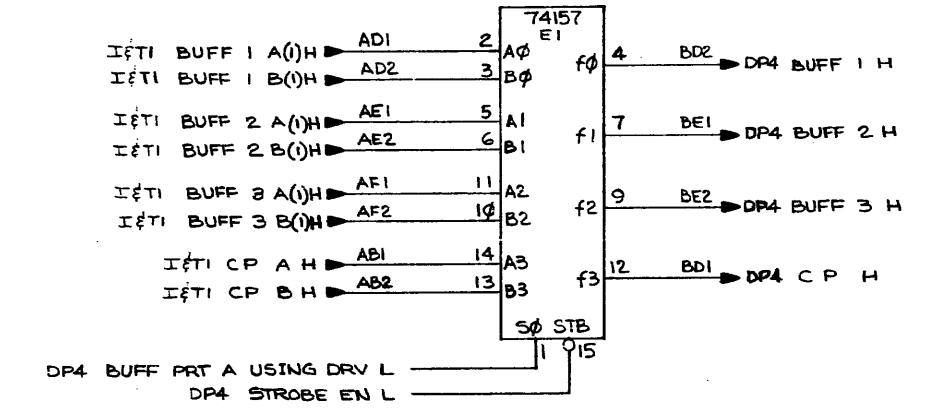
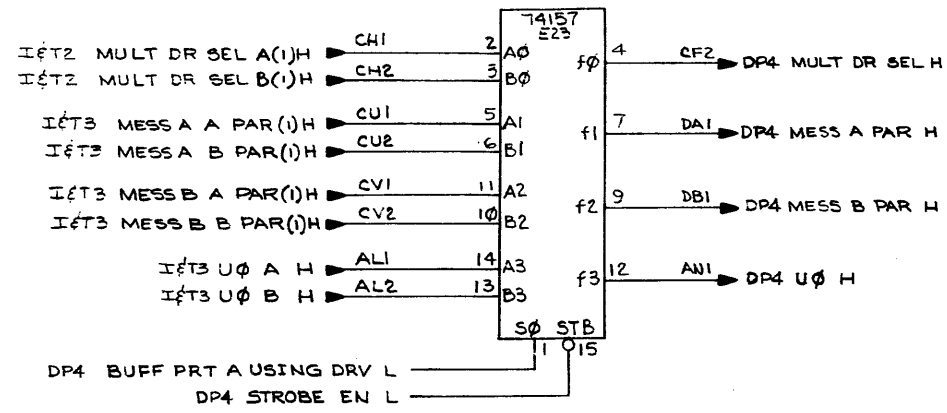
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REVISIONS		
CHK	CHANGE NO.	REV.

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D
C
B
A

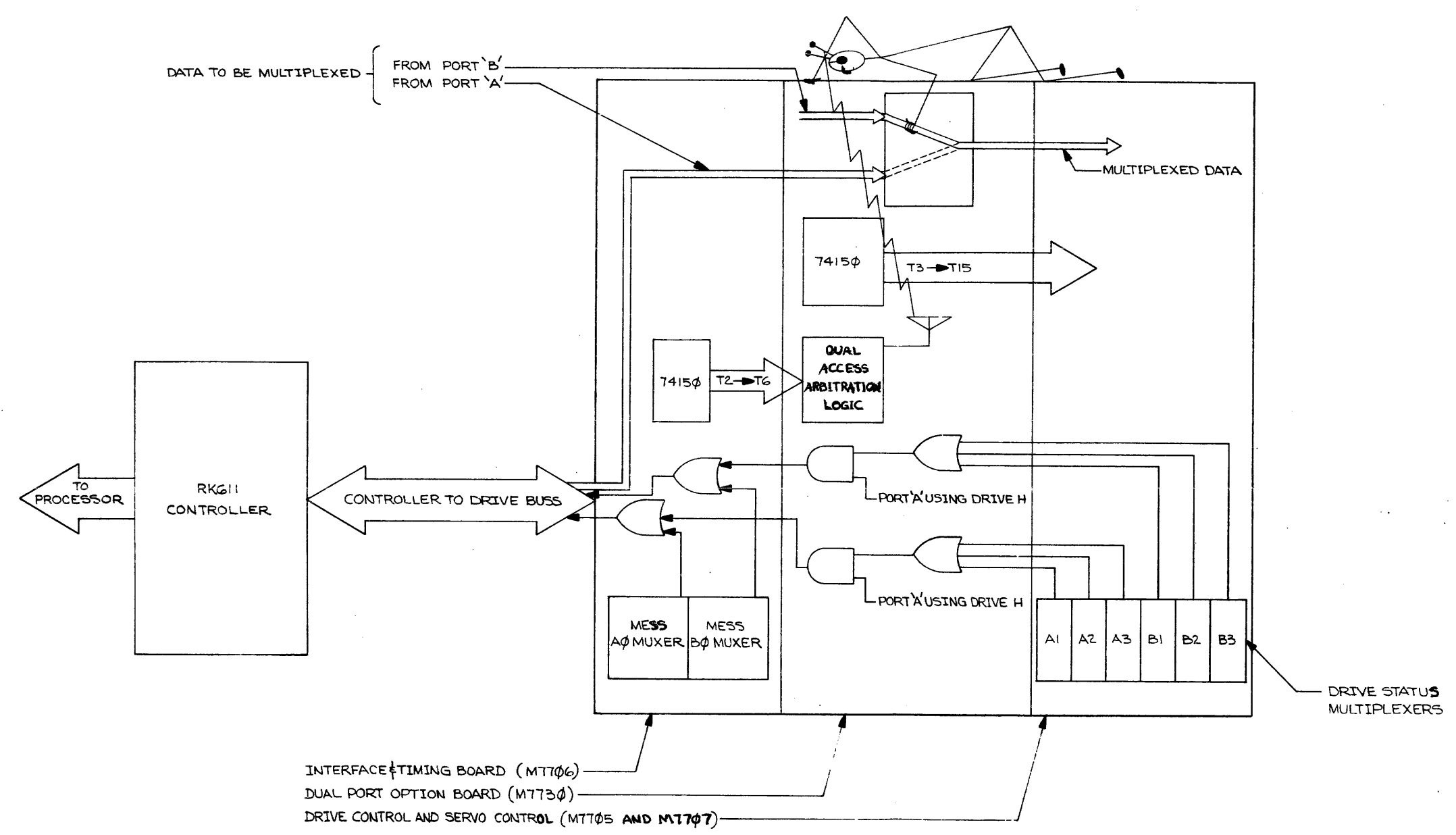


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	RK06 DUAL PORT LOGIC (DP4)	SIZE CODE	DCS	NUMBER	M7730-0-1	REV.	D
SCALE	#	SHEET	4 OF 4	DIST.			

REV. 1 D
DCS M7730-0-1

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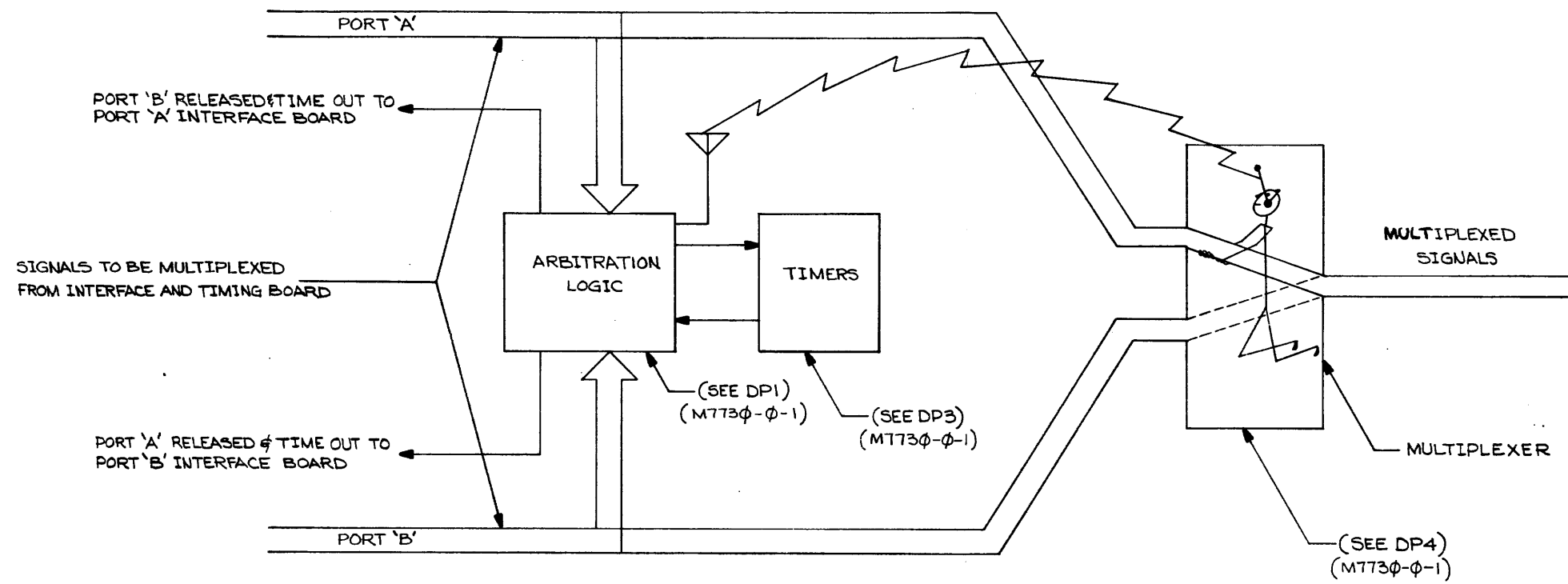


DRIVE ARCHITECTURE WITH DUAL ACCESS OPTION INSTALLED

REV.	
CHANGE NO.	
CHK	
REVISIONS	
DATE	

DRN. S. D. R. g. e. d. c. 4-25-77	FIRST USED ON	digital
CHK. D. J. M. g. e. s. h. e. 4-29-77	RK06	
ENG. R. W. e. l. l. 31 APR 77	TITLE	(RK06)
PROJ. ENG. C. W. e. l. l. 5 11 77	DUAL PORT LOGIC	
PROP. S. J. H. e. n. r. i. c. h. 8 11 77	BLOCK DIAGRAM	
NEXT HIGHER ASSY.	SIZE	NUMBER
B DD M7730-0	D BD	M7730-0-2
SCALE	REV.	B
SHEET 1 OF 3	DIST.	

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REVISIONS		
CHK	CHANGE NO.	REV.

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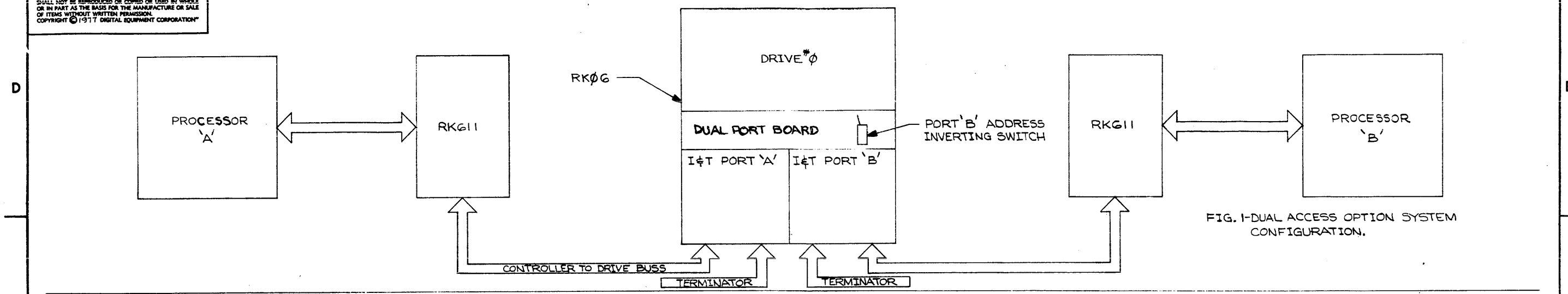


FIG. 1-DUAL ACCESS OPTION SYSTEM CONFIGURATION.

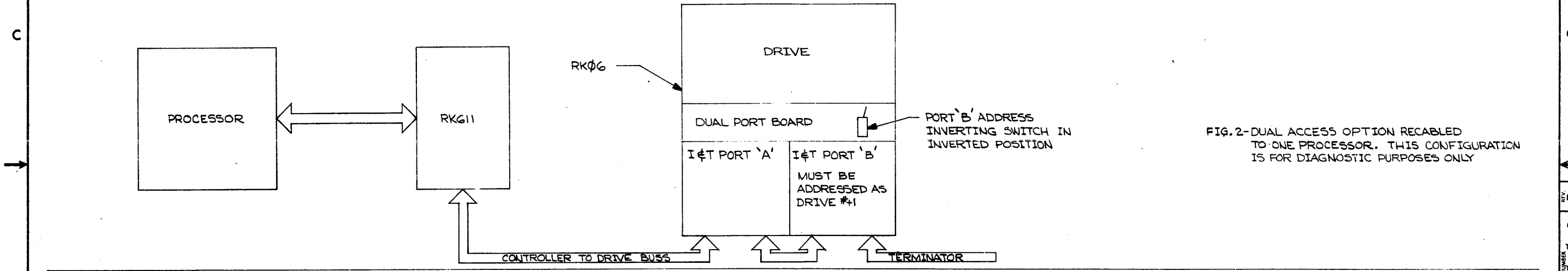


FIG. 2-DUAL ACCESS OPTION RECALIB TO ONE PROCESSOR. THIS CONFIGURATION IS FOR DIAGNOSTIC PURPOSES ONLY

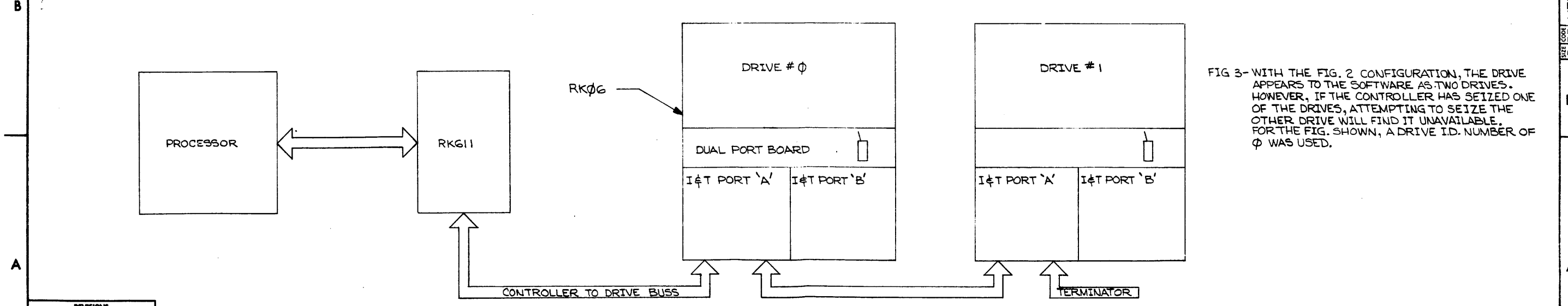
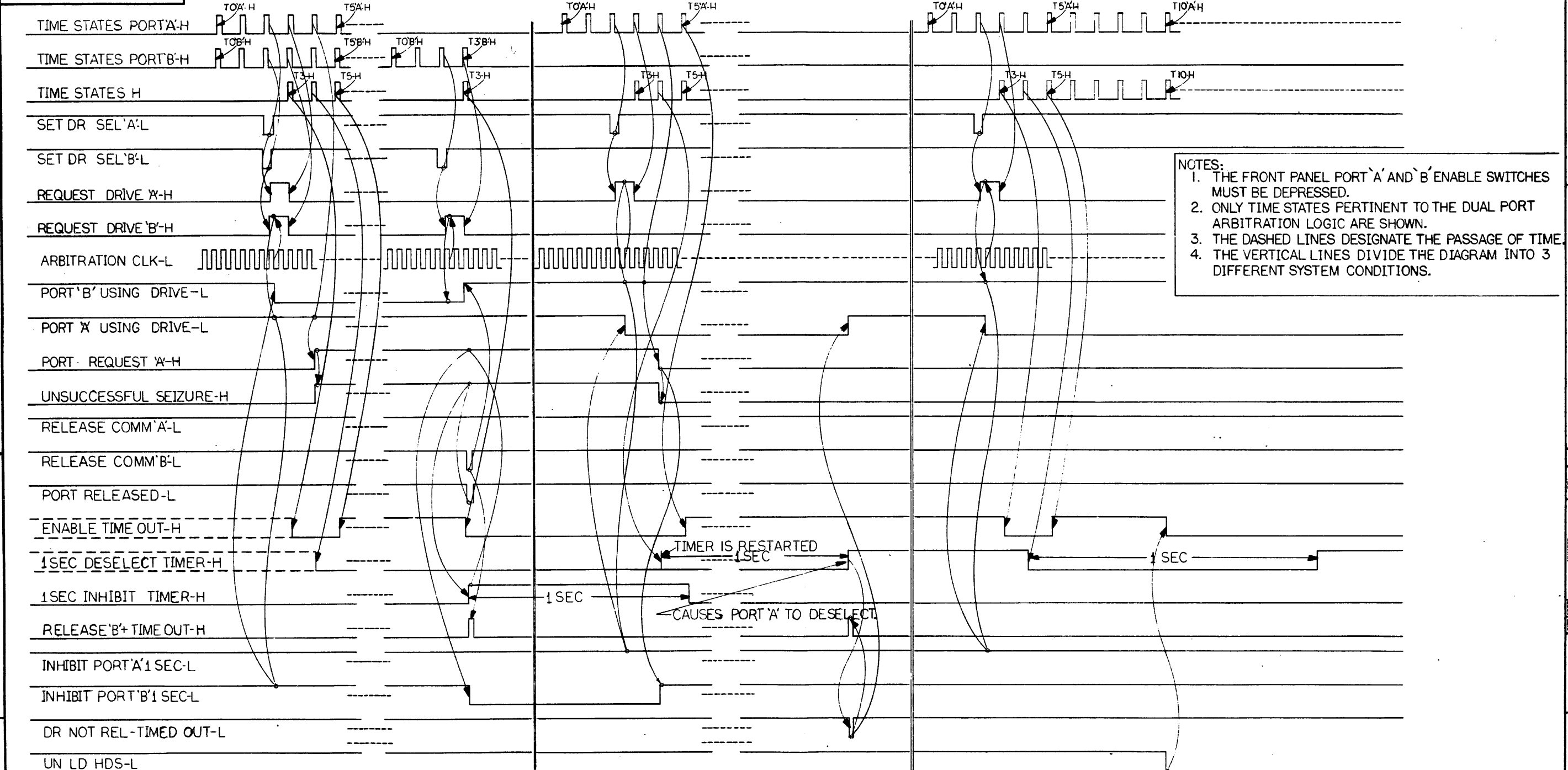


FIG. 3-WITH THE FIG. 2 CONFIGURATION, THE DRIVE APPEARS TO THE SOFTWARE AS TWO DRIVES. HOWEVER, IF THE CONTROLLER HAS SEIZED ONE OF THE DRIVES, ATTEMPTING TO SEIZE THE OTHER DRIVE WILL FIND IT UNAVAILABLE. FOR THE FIG. SHOWN, A DRIVE I.D. NUMBER OF 0 WAS USED.

REVISIONS		
CHK	CHANGE NO.	REV.

REV. B
 NUMBER M730-0-2
 SIZE CODE D BD

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NOTES:
 1. THE FRONT PANEL PORT 'A' AND 'B' ENABLE SWITCHES MUST BE DEPRESSED.
 2. ONLY TIME STATES PERTINENT TO THE DUAL PORT ARBITRATION LOGIC ARE SHOWN.
 3. THE DASHED LINES DESIGNATE THE PASSAGE OF TIME.
 4. THE VERTICAL LINES DIVIDE THE DIAGRAM INTO 3 DIFFERENT SYSTEM CONDITIONS.

DRIVE IS AVAILABLE TO BOTH PORTS WHICH SIMULTANEOUSLY ATTEMPT TO SEIZE THE DRIVE. THE DUAL PORT CLOCK ARBITRATES AND PORT 'B' WINS. PORT 'A' SETS UP THE LOGIC GIVING IT PRIORITY ONCE PORT 'B' RELEASES THE DRIVE.

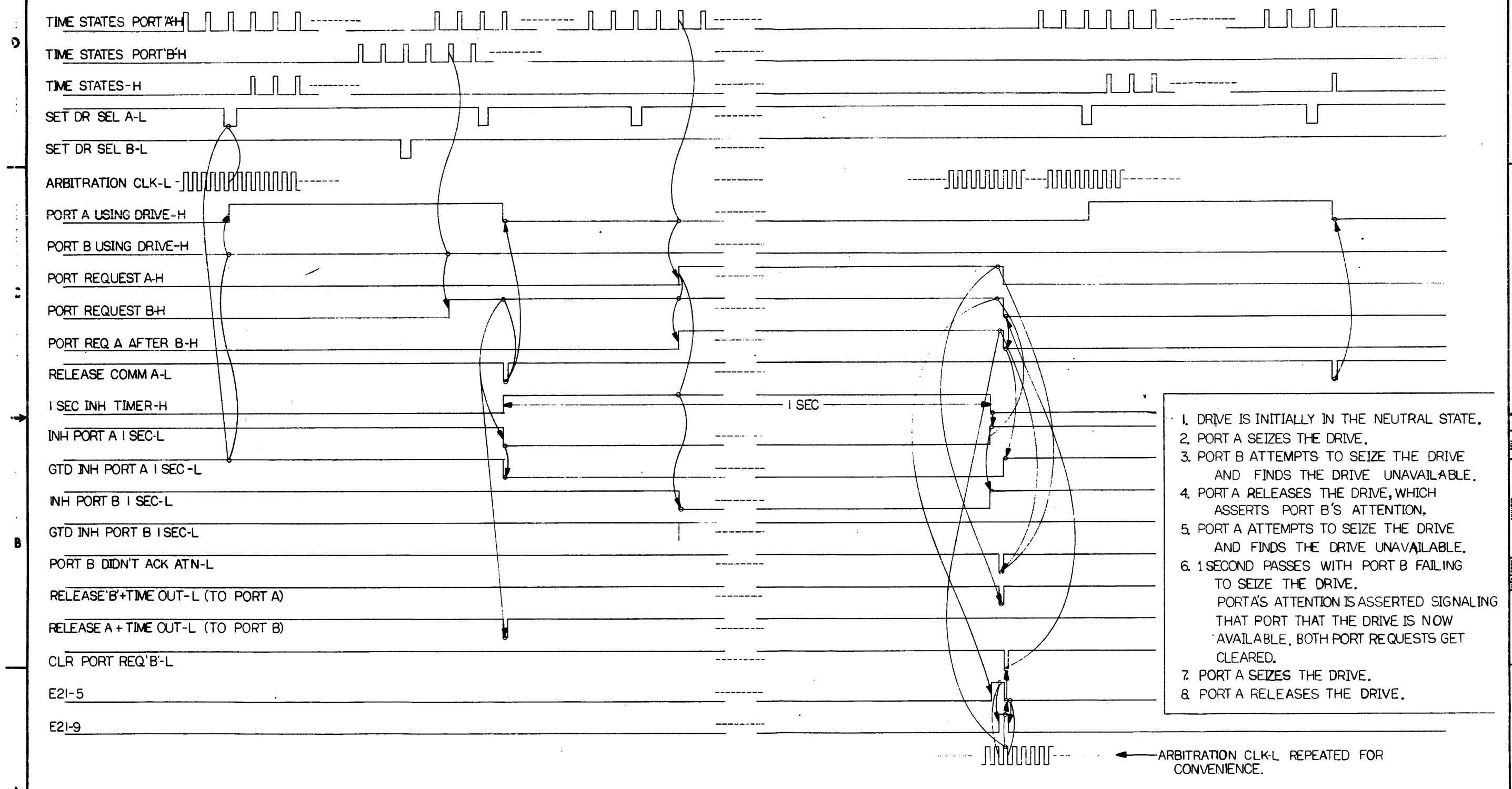
THE LOGIC INHIBITS PORT 'B' FROM SEIZING THE DRIVE, GIVING PORT 'A' PRIORITY. PORT 'A' SEIZES THE DRIVE, BUT DOES NOT ISSUE A RELEASE COMMAND. THE 1 SECOND DESELECT TIMER TIMES OUT AND PORT 'A' GETS DESELECTED.

DRIVE IS AVAILABLE TO BOTH PORTS. PORT 'A' SEIZES THE DRIVE AND ISSUES THE UNLOAD HEADS COMMAND. THE DESELECT TIMER IS DISABLED AND THE DRIVE WILL REMAIN LOCKED ONTO PORT 'A'.

REV. 1
 REV. 2
 REV. 3
 REV. 4

DRN. J. D. King 8-13-76	FIRST USED ON RK06	DIGITAL
CHK'D. M. J. 4-23-77	TITLE (RK06)	
ENGR. R. J. 5 APR 77	DUAL PORT LOGIC TIMING DIAGRAM	
PROJ. ENG. R. J. 5 APR 77	SIZE CODE	NUMBER
NEXT HIGHER ASSY.	D	M7730-0-3
B-DD-M7730-0	SCALE	REV. B
SHEET 1 OF 2	DIST.	

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REVISIONS		
CHK	CHANGE NO.	REV.

DUAL PORT LOGIC RELEASE AND TIME OUT TIMING

TITLE	(RK06) DUAL PORT LOGIC TIMING DIAGRAM	SIZE CODE	D TD	NUMBER	M7730-0-3	REV.	B
SCALE		SHEET	2	OF	2	DIST.	

DITD M7730-0-3

B

A

LINE	ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
1	1		5012638-00	M7730	1	
2	2		1000012-00	***** THIS ITEM IS NOT USED *****	-	
3	3		1000084-00	150 MFD 15V 20% 1500 S.TA (10-00	2	C50,C53
4	4		1001610-01	.01 MFD 100V OR 50V 25U DISC/800PF MIN	49	C1-C49
5	5		1005306-00	6.8MFD 35V 10% 1500 S.TA (10-00	5	C51,C54-C57
6	6		1105275-00	***** THIS ITEM IS NOT USED *****	-	
7	7		1112689-00	LED .8MCD@16MA VF=5V	4	DS1-DS4
8	8		1210209-00	SW,TOG 1P,01A SUBMINI	1	S1
9	9		1300295-00	330 1/4W 5% CC (13-00	1	R1
10	10		1300365-00	1 K 1/4W 5% CC (13-00	3	R4-R6
11	11		1301401-00	750 1/4W 5% CC (13-00	1	R2
12	12		1301808-00	22 K 1/4W 5% CC (13-00	2	R7,R8
13	13		1300479-00	10 K 1/4W 5% CC (13-00	2	R9,R10
14	14		1301890-00	560 1/4W 5% CC (13-00	1	R3
15	15		1609428-00	DELAY= 50NS,0TAPS D0150	1	E19
16	16		1905547-00	DEC 7474 FF-D DUAL,EDGE TRIGGER,15MHZ	8	E15,E20,E21,E27,E36,E37,E43, CONT E49
17	17		1905575-00	7400 NAND GATE-QUAD 2IN	5	E8,E9,E32,E45,E46
18	18		1905576-00	7410 NAND GATE-TRIPLE 3IN	3	E26,E41,E47
19	19		1905577-00	7420 NAND GATE-DUAL 4INPUT	1	E50
20	20		1909004-00	DEC 7402 NOR GATE-QUAD 2IN	3	E24,E28,E42
21	21		1909686-00	7404 INVERTER GATE-HEX 1IN	9	E6,E7,E13,E17,E29,E31,E35,E38, CONT E48
22	22		1909701-00	74154 1 OF 16,BINARY SELECT	1	E18
23	23		1910091-00	DEC 7437 NAND GATE-QUAD 2IN,BUFFER 14	1	E14
24	24		1910155-00	DEC 7408 AND GATE,POS,QUAD 2IN 14	3	E10,E33,E44
25	25		1910436-00	DEC 74123 ONE SHOT-DUAL,RETRIGGERABLE	2	E5,E16
26	26		1910655-00	74157 MUX 1 OF 2 (QUAD	6	E1,E2,E12,E23,E30,E34
27	27		1911324-00	7414 NAND GATE-HEX 1IN SCHMITT TRIG	1	E3
28	28		7413826-00	HANDLE	1	

REVISION HISTORY			VARIATIONS FOR THIS ASSY.		
CHK	ECO NO.	REV	FIRST USED ON: RK06		
BHF	02002	0	MADE BY: D. MAYUSHI DATE: 30-JUN-78		
			CHECKED: D. MAYUSHI DATE: 30-JUN-78		
			DSN.ENG.: ROBERT H. WOLFF DATE: 30-JUN-78		
			PROD.: BOB GOODWIN DATE: 30-JUN-78		
			RESP.ENG.: ROBERT H. WOLFF DATE: 30-JUN-78		
			DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
			TITLE PARTS LIST		
			RK06 DUAL PORT LOGIC		
			SIZE/	CODE/	DOCUMENT NUMBER
			K	PL	M7730-0-DBP
			ASSY. NO.: D-UA-M7730-0-0		
			REV 4		
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LINE	ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
29	29		7413826-01	HANDEL, MODULE	1	
30	30		9000024-01	EYELET, ROLLED FLANGE, .121 OD X .196 LG	8	
31	31		9105740-55	WIRE(WRAP)30AWG UL1423 (91-00 A/R		
32	32		9009185-00	JUMPER, WIRE, INSULATED, BLACK BAND	2	W1,W2
33	33		1000042-00	1000.0 MMF 100V 5%200PPM DM15S (10-00	1	C58
34	34	9-DD-M7730-0-0		DRAWING DIPECTORY	REF	
35	35	D-UA-M7730-0-0		UNIT ASSEMBLY	REF	
36	36	D-CS-M7730-0-1		CIRCUIT SCHEMATIC	REF	
37	37	D-MD-5012638-0-0		DRILL AND ETCH DRAWING	REF	
38	38	I.C. SPARES, 16 PIN			6	E4,E11,E22,E25,E39,E40

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE RK06 DUAL PORT LOGIC	PARTS LIST	SIZE K	CODE PL	DOCUMENT NUMBER M7730-0-DBP	REV D
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DRAWING NUMBER	INIT REL	AUTOMATIC WIRE TESTER (AWT) REVISION STATUS														REV. R
	TI	A	B	C	D	E	E	F	H	H	J	K	K	K	L	
K-WL-7012474-1-DBW	*	A	B	C	D	E	E	F	H	H	J	K	K	K	L	
D-AD-7012474-0-0	*	A	B	B	C	C	D	D	D	D	D	D	E	F	H	
D-CS-5411864-0-1	C	C	C	C	C	C	C	C	C	D	D	D	D	D	D	
D-IA-7011626-0-0	*	*	*	*	*	*	*	*	*	*	B	B	B			
A-DC-7411881-0-0	*	*	*	*	*	*	*	*	*	*	*	*	*			

SIZE CODE
A WT
NUMBER
7012474-1

REVISIONS		REV.
CHK	CHANGE NO.	
	7012474-00001	A
	7012474-00002	B
	7012474-00003	C
	7012474-00005	D
	7012474-00006	E
	7012474-00007	F
	7012474-00008	H
	7012474-00009	J
	5411864-00002	K
	7012474-00010	L
	7012474-00012	M
	7012474-00013	N
	7012474-M1014	P
	7012474-M1015	R

DRN W. Major	DATE 20 APR 76		EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
CHK'D W. Major	DATE 20 APR 76		
ENG. Witt	DATE 4/20/76		
PRJ. ENG. Brenden	DATE 4/20/76		
PRD. Brenden	DATE 4/20/76	TITLE RK06 (DUAL PORT) AWT REVISION STATUS	
FIRST USED ON RK06		SIZE CODE A WT	NUMBER 7012474-1
SCALE ++	SHEET 1 OF 1	DIST.	REV. R

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NOTES:

1. THE ROUTING OF SOME WIRES ARE CRITICAL. ANY ROUTING CHANGE MUST HAVE DISK ENGINEERING APPROVAL.


REV L 7012474-1-DBW SIZE CODE K WL

2

1

4

3

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RK06				
PARTS LIST				
DRN. <i>w. Major</i>	DATE 20 APR 76	 DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS TITLE WIRE LIST (DUAL PORT)		
CHK'D. <i>w. Major</i>	DATE 20 APR 76			
ENG. <i>Walt Dube</i>	DATE 4/20/76			
PROJ. ENG. <i>C. Svendsen</i>	DATE 4/24/76			
PROP. <i>C. Svendsen</i>	DATE 4/24/76			
NEXT HIGHER ASSEMBLY D-AD-7012474-0-0		SIZE CODE K WL	NUMBER 7012474-1-DBW	REV. L
SCALE + +	SHEET 1 OF 1	DIST.		

REVISIONS	CHANGE NO.	REV.
<i>W</i>	7012474-00001	A
<i>MC</i>	7012474-00002	B
<i>RW</i>	7012474-00003	C
<i>MC</i>	7012474-00005	D
<i>RW</i>	7012474-00006	E
<i>W</i>	7012474-00008	F
<i>W</i>	7012474-00009	H
<i>MC</i>	7012474-00010	J
<i>MC</i>	7012474-00012	K
<i>D. G.</i>	7012474-ML015	L

4

3

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1