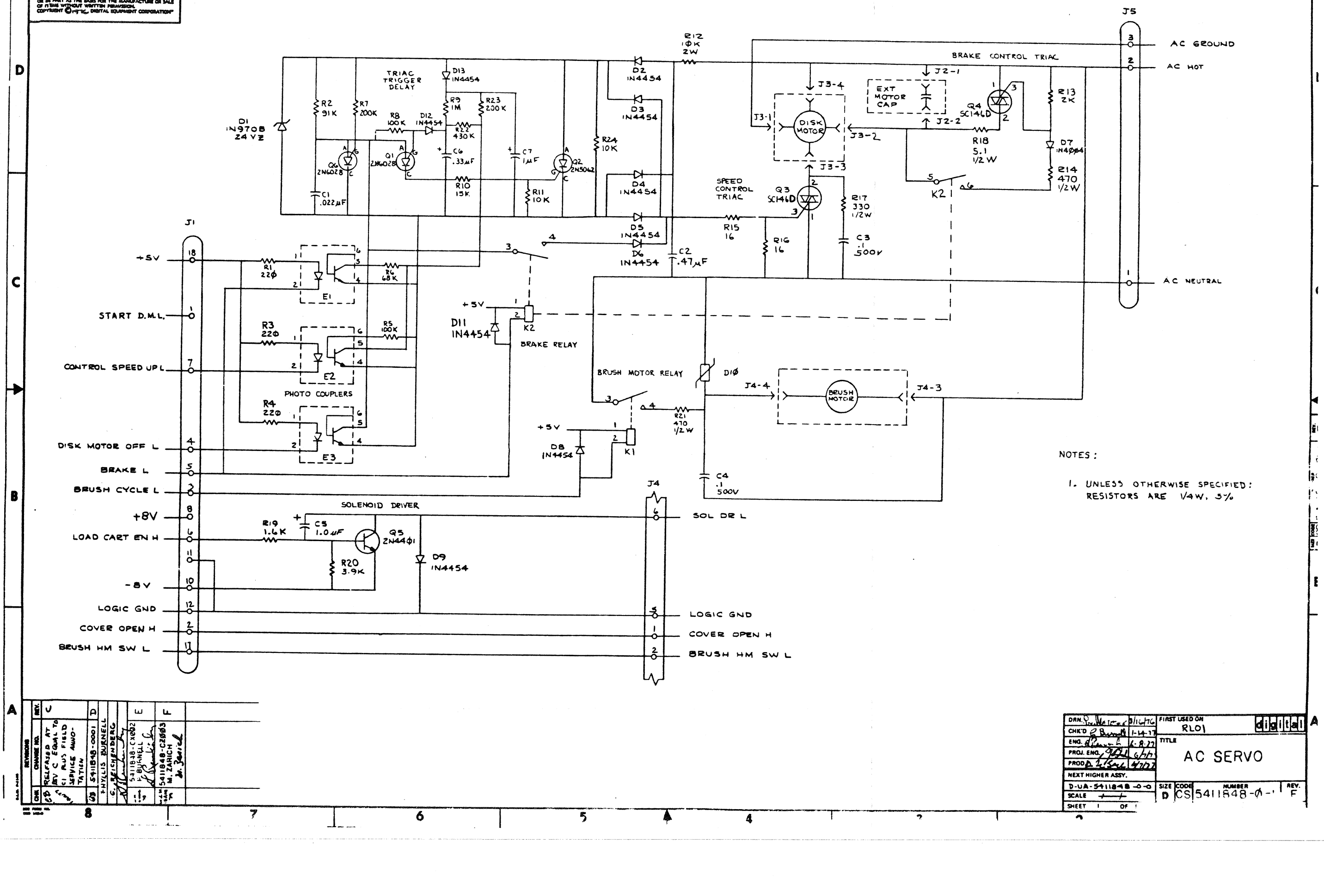
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NOTES:

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

REVISIONS			
REV.	CHANGE NO.		
U	RELEASED AT REV C EQUAL TO CI RUS FIELD SERVICE IMPLEMENTATION	CM	5411848-0001
		CM	PHYLLIS BURNELL
		CM	CHRISTINE BERG
		CM	5411848-CX002 P. BURNELL
		CM	5411848-C2003 M. ZANICH

DRN. S. Wetmore	8/16/76	FIRST USED ON RLO1
CHK'D P. Burnell	1-14-77	digital
ENG. [illegible]	1-18-77	TITLE AC SERVO
PROJ. ENG. [illegible]	6/77	
PROD [illegible]	6/77	
NEXT HIGHER ASSY.		
D-UA-5411848-0-0		SIZE D CODE CS NUMBER 5411848-0-1 REV. F
SCALE		
SHEET 1 OF 1		

NOTES:
1. TP3,TP11,TP12 & TP15 THRU TP19 TO BE MOUNTED ON SIDE 2.
2. R60 AND R61 ARE TO BE INSTALLED AFTER FINAL TEST.
3. INSTALL W1 AND W2 FOR RL01.
INSTALL W2 ONLY FOR RL02.
W1 & W2 ARE LOCATED ON SIDE 2.

CHG	CHANGE NO	REV
		D

ETCH REV. B
P.C. DESIGN DATA BASE REV. BL

NEXT ASSEMBLY USED ON: B-00-5413534-0

SIGNATURES	DATE
DRN.	
CHK. D.	
ENG.	
PROJ. ENG.	
PROD.	

TITLE: DC SERVO A POWER SUPPLY

SIZE D | CODE UA | NUMBER 5413534-0-0 | REV D
SCALE 2/1 | SHT. 1 OF 2

SEE NOTE 2
SEE NOTE 3
SEE NOTE 1
5 PLACES
5.99 REF B.S.
1
59
6 PLACES TYP
68
58
8.70 REF B.S.
65,66
69
75
74
3-2
3-1
3-3
60 61 62 63 48 PLACES TYP 10
60 61 62 63 48 PLACES TYP 6

COMPONENT SIDE VIEW

1970

D UA 5413534-0-0 D

AUTOMATED BY PRTLST.2E(2)

P A R T S L I S T

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
1	1	D-MD-5013533-0-0	5013533-00	ETCHED CIRCUIT BOARD	1	
2	2		1013466-08	680.0 MMF 50V 10% X7R CER	1	C12
3	3		1016009-00	2200.0 MMF 50V 5% CER	1	C7
4	4		1001610-00	.01 MFD 50V +80-20% 25U CER	4	C1,C9,C10,C15
5	5		1002630-00	.015 MFD 100V 10% MYLR	1	C8
6	6		1013466-11	.22 MFD 50V +80-20% Z5U CER	4	C3,C5,C11,C16
7	7		1005306-00	6.8MFD 35V 10% S.TANT	4	C4,C6,C13,C14
8	8		1000076-00	39 MFD 10V 10% S.TANT	1	C2
9	9		1309422-00	5.10 .25 W 5.0 % CC	1	R58
10	10		1312929-00	62.0 .25 W 5.0 % CC	2	R3,R23
11	11		1311523-00	110.0 .25 W 5.0 % CC	1	R22
12	12		1300247-00	120.0 .25 W 5.0 % CC	1	R13
13	13		1300271-00	220.0 .25 W 5.0 % CC	1	R59
14	14		1301425-00	300.0 .25 W 5.0 % CC	1	R55
15	15		1303178-00	620.0 .25 W 5.0 % CC	1	R6
16	16		1300365-00	1.0 K .25 W 5.0 % CC	5	R1,R7,R39,R44,R57
17	17		1300391-00	1.50 K .25 W 5.0 % CC	1	R5
18	18		1302388-00	2.0 K .25 W 5.0 % CC	2	R31,R43
19	19		1300426-00	2.70 K .25 W 5.0 % CC	2	R46,R47
20	20		1302389-00	4.30 K .25 W 5.0 % CC	1	R53
21	21		1300447-00	4.70 K .25 W 5.0 % CC	10	R10-R12,R14,R15,R19,R20,R24,R49,
					CONT	R68
22	22		1303179-00	8.20 K .25 W 5.0 % CC	3	R9,R16,R17
23	23		1300488-00	12.0 K .25 W 5.0 % CC	4	R25,R26,R45,R56
24	24		1305346-00	27.0 K .25 W 5.0 % CC	1	R21
25	25		1305131-00	*** THIS ITEM IS NOT USED ***	-	
26	26		1312923-00	2.10 K .25 W 1.0 % RN55D-F10	1	R41
27	27		1305114-00	3.48 K .25 W 1.0 % RN55D-F10	1	R34
28	28		1314763-00	4.12 K .25 W 1.0 % RN55D-F10	1	R36
29	29		1303312-00	10.0 K .25 W 1.0 % RN55D-F10	3	R28,R29,R62

REVISION HISTORY			BASIC PART NO: 5413534
ENG	ECO NUMBER	REV	SECTION A OF A
	INIT	A	SECTION.VARIATION INDEX
BN	5413534-CZ001	B	[A] 00
MZ	5413534-CX003	C	[B]
			[C]
			[D]
			[E]
			[F]
			[H]
			[J]
			[K]
			[L]
			[M]
			[N]

DRN: JERRY BEST	DATE: 26-JUL-78	D I G I T A L	
CHK'D: JERRY BEST	DATE: 26-JUL-78	TITLE: PARTS LIST D.C. SERVO AND POWER SUPPLY	
DES.ENG: R. NOGUCHI	DATE:		
RESP.ENG.: R. NOGUCHI	DATE: 26-JUL-78	DOCUMENT NUMBER	
MFG.ENG.: P. CHURCH	DATE:	SIZE: K / CODE: PL / NUMBER: 5413534-0-DBP / REV: C	
ASSEMBLY NUMBER: D-UA-5413534-0-0	TOP DOCUMENT NUMBER: RL02	FILE NAME: Z0494C.PLS	EDIT #: 18

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RPM IC U80 80

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P A R T S L I S T

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
30	30		1312924-00	10.70 K .25 W 1.0 % RN55D-F10	1	R32
31	31		1309412-00	18.20 K .25 W 1.0 % RN55D-F10	1	R33
32	32		1315436-00	52.30 K .25 W 1.0 % RN55D-F10	1	R54
33	33		1304843-00	243.0 K .25 W 1.0 % RN55D-F10	1	R72
34	34		1315437-00	237.0 K .25 W .10% RN55D-F10	1	R38
35	35		1302378-00	51.0 .50 W 5.0 % CC	1	R51
36	36		1300364-00	1.0 K .50 W 5.0 % CC	2	R18,R48
37	37		1314068-00	360.0 1.0 W 5.0 % CC	1	R4
38	38		1300368-00	1.0 K 1.0 W 5.0 % CC	1	R8
39	39		1301494-00	200.0 2.0 W 5.0 % CC	1	R50
40	40		1313358-00	.20 5.0 W 3.0 % WW	2	R2,R52
41	41		1105796-00	1N 4004 PIV=400 I= 1A D041 SP	3	D1,D2,D5
42	42		1113953-00	1N 5523D VZ= 5.1 1%	8	D4,D6,D8,D9,D16,D18,D21,D22
43	43		1109990-00	1N 757A VZ= 9.1 5% .40W P	2	D23,D24
44	44		1110994-00	1N 751A VZ= 5.1 5% .40W	1	D14
45	45		1114117-00	1N 4152 PIV=450 I=75M	6	D3,D7,D10,D11,D12,D13
46	46		1111577-00	1N 4454 TR= 4NS PIV= 50 S	6	D15,D17,D20,D25-D27
47	47		1513698-00	TRIAC@200V,I>14A	1	D19
48	48		9009597-00	INSULATOR, THERMA-FILM	1	
49	49		1513489-00	2N 4401 NPN 350MW SI 40 20	4	Q2,Q4,Q8,Q9
50	50		1513490-00	2N 4403 PNP 350MW SI-40 30	6	Q1,Q3,Q5-Q7,Q11
51	51		1511282-00	MJ2500 PNP 150WC SI 60 5 1K 5A	2	E4,E6
52	52		1511349-00	TIP 640 (OR MJ3000) NPN DARLINGT	1	E3
53	53		1911706-00	5012 ANALOG SWITCH,4CHNL	1	E8
54	54		1912818-00	LS38 NAND BUFFER-QUAD 2IN	1	E10
55	55		1912107-01	324ANOP AMP,QUAD	1	E7
56	56		1913695-00	7808 VOLT REG,FIX +8V	1	E9
57	57		1913694-00	7908 VOLT REG,FIX -8V	1	E5
58	58		9008419-00	WASHER, FLAT, THERMAFILM .002THK	5	
59	59		7418595-00	HEATSINK ASSEMBLY	1	
60	60		9008033-01	SCREW,PAN,PHIL 4-40X 9/16 SS	11	
61	61		9006557-00	NUT,KEP , 4-40X 1/4 AF	11	
62	62		9006655-00	WASHER, FLAT, .312 O.D. X .125 I	11	
63	63		9008268-00	COMPOUND, THERMAL JOINT	A/R	
64	64		1210824-00	THERMOSTAT,O@215,C@156,SPST,NORM	1	S1
65	65		9008185-00	NUT,KEP , 6-32X1/4 AF	1	
66	66		9006653-00	WASHER, FLAT, .375 O.D. X .156 I	1	
67	67		1205747-00	FUSE, SUB-MINI, 5.000A, 125V, A	1	F1
68	68		9006735-00	EYELET, FUNNEL FLANGE, .059 OD X	6	TP13-TP18
69	69		9007791-00	TERM PCB 2POS SOLDER,TURRET	13	TP0-TP12
70	70		1213922-01	HEADER 3POS	1	J1
71	71		1213922-04	HEADER 6POS	1	J2
72	72		1213900-00	CONN,RCPT 6POS	1	J3
73	73		1209941-06	HEADER,100 20POS RT ANGLE	1	J4
74	74		1209941-04	HEADER RT ANGLE,RIGHT	1	
75	75		1209941-03	HEADER RT ANGLE LEFT L	1	
76	76		1305324-00	4.99 K .25 W 1.0 % RN55D-F10	2	R37,R30
77	77		1300250-00	150.0 .25 W 5.0 % CC	1	R42

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							D.C. SERVO AND POWER SUPPLY		K	PL	5413534-0-DBP	C

AUTOMATED BY PRTLST.2E(2)

PARTS LIST

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
78	78		1312618-00	16.90 K .25 W 1.0 % RN55D-F10	1	R40
79	79		1300229-00	100.0 .25 W 5.0 % CC	1	R63
80	80		1305336-00	*** THIS ITEM IS NOT USED ***	-	
81	81		1309416-00	31.60 K .25 W 1.0 % RN55D-F10	1	R65
82	82		1002781-00	100 MFD 25V +75-10% AL EL	1	C20
83	83		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	2	W1,W2
84	84		1303044-00	100.0 K .25 W 1.0 % RN55D-F10	1	R64
85	85		1015574-00	*** THIS ITEM IS NOT USED ***	-	
86	86		1315435-00	25.50 K .25 W 1.0 % RN55D-F10	1	R66
87	87		1312930-00	5.10 K .25 W 5.0 % CC	1	R67
88	88		1015520-00	1 MFD 100V 5% MET. MYLR	1	C19
89	89		1513697-00	2N 5640 FET N CHNNL	1	Q10
90	90		1300479-00	10.0 K .25 W 5.0 % CC	1	R69
91	91		1302466-00	100.0 K .25 W 5.0 % CC	1	R70
92	92		9105740-55	WIRE(WRAP)30AWG UL1423	A/R	

| | | |

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+VUN J2-5
-VUN J2-6
+8.0V J2-2
-8.0V J2-3

+8 VOLT DC REGULATOR
+VUN J1-2
MC7808CK
C3 .22UF
C4 6.8UF
D1 IN4004
TP4

-8 VOLT DC REGULATOR
-VUN J1-1
MC7908CK
C5 .22UF
C6 6.8UF
D2 IN4004
TP5

T1 S1 T2 THERMAL SWITCH (LOCATED ON HEATSINK)
C20 100UF
R25 12K
R6 620
R5 1.5K
D3 IN4152
D4 IN5523D 5.1V

+5 VOLT DC REGULATOR
PICO FUSE F1 5A
+VUN TP13 TP14
R1 1K
C9 .01UF
R2 .2,5W
Q1 2N4403
R3 62
C1 .01 UF
5 VOLT REFERENCE SOURCE
R4 360, 1W
R56 12K
Q2 2N4401
Q3 2N4401
R57 1K
R58 5.1
E6 MJ2500
TP8
+5.0V J2-1
D5 IN4004
C2 39UF

+5V
D6 IN5523D 5.1V
D7 IN4152
R59 220
R7 1K
-8V

+VUN
D8 IN5523D 5.1V
D9 IN5523D 5.1V
D10 IN4152
D11 IN4152
D12 IN4152
R8 1K, 1W
-8V

+8V
R9 8.2K
UNDERVOLTAGE DETECTOR
D13 IN4152
Q3 2N4403
C10 .01UF
R10 4.7K
Q4 2N4401
R11 4.7K
-8V

+8V
R13 120
TP6
D14 IN751A 5.1V
R15 4.7K
+5V
R14 4.7K
R12 4.7K

E10 74LS38
5 VOLT DISABLE GATE
INVERT / NON INVERT DRIVERS
EMERGENCY RETRACT DRIVER
D15 IN4454

R19 4.7K
R20 4.7K
EMERGENCY RETRACT CONTROL
Q5 2N4403
D17 IN4454
R21 27K
-8V

TP7
R18 1K, 1/2W
+VUN
R16 8.2K
R17 8.2K
D16 IN5523D 5.1V

NON INVERT L
INVERT L
EMERGENCY HOME DR
HOME SWITCH L J4-9
DC LOW H
POWER ON RESET L J4-13

DIRECTION J4-17
HOME SWITCH L J3-3

NOTES:
1. ALL RESISTORS TO BE 1/4W, 5%; UNLESS OTHERWISE SPECIFIED.
2. ~~E1 AND E2 ARE SPARES.~~
3. VALUE OF R60 OR R61 WILL BE DETERMINED IN TESTING.
4. INSTALL W1 AND W2 FOR RL01 ON SIDE 2. INSTALL W2 ONLY FOR RL02 ON SIDE 2.

REV.	CHANGE NO.	CHK	
B	5413534-CX004 BOB NOGUCHI		
C	5413534-CX02A M. ZARICH		
D	5413534-CX003 M. ZARICH		

DESCRIPTION	DWG./PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES		

ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	MACHINED DIMENSION RANGE INCHES					
		OVER 0 TO 0.3	OVER 0.3 TO 1.2	OVER 1.2 TO 4.8	OVER 4.8 TO 12.0	OVER 12.0 TO 48.0	OVER 48.0 TO 96.0
SURFACE QUALITY IN MICROINCHES	MEDIUM ☐	±.004	±.008	±.010	±.016	±.024	±.04
	PREFERRED ☐	±.012	±.016	±.025	±.04	±.06	±.1

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL

DRN	[illegible]	8/14/78
CHK'D		
ENG.		
PROJ. ENG.		
PROD.		
NEXT HIGHER ASSY.		
D-UA-5413534-0-0		
SCALE		
SHEET 1 OF 2		

FIRST USED ON

digital

TITLE
DC SERVO AND POWER SUPPLY

SIZE	CODE	NUMBER	REV.
D	CS	5413534-0-1	D

DIST.

TITLE	DC SERVO AND POWER SUPPLY		
SIZE	CODE	NUMBER	REV.
D	CS	5413534-0-1	D
SCALE	SHEET 2 OF 2	DIST.	

REVISIONS			
DR	CHANGE NO.	REV.	

DCS 5413534-0-1 D

VEL SIG J4-2

CND J1-3

TP10

TP11

TP0

J2-4

LOGIC GND

TACH RET J3-4

SIG GND

HOME SWITCH GND J1-3

INTEGRATOR GND J4-15

SIGNAL GND J4-14,16

OVERVOLTAGE CROWBAR

+5V

R22 110

R23 62

R24 4.7K

C15 .01UF

C16 .22UF

D18 1N5523D 5.1V

Q6 2N4403

D8 SC1468

TACH AMPLIFIER

-8V

R36 4.12K,1% / TBD SEE NOTE 3

R61 TBD SEE NOTE 3

R55 300

TACH J3-5

R34 3.48K,1%

E7 LM324A

+8V

R33 10.2K,1%

R53 4.3K

C8 .015UF

R35 121K,1%

INVERT/ION INVERT SELECTION CONTROL

R32 10.7K,1%

R29 10.0K,1%

R30 4.99K,1%

R62 10.0K 1%

E7 LM324A

E8 IH5012

R28 10.0K,1%

VEL COMMAND J4-7

VEL MODE L J4-1

R31 2K,5%

+8V

INVERT L

EMERGENCY HOME DR

SUMMING AMPLIFIER

R37 4.99K,1%

R39 1K

R63 100Ω

D20

IN4454

D21 IN5523D 5.1V

MOTOR CURRENT LIMITERS

D22 IN5523D 5.1V

R40 16.9K,1%

R54 52.3K, 1/4W,1%

R38 237K,1%

220pF

C7

TP1

E7 LM324A

R41 2.10K,1%

R43 2K

-8V

R44 1K

D26 IN4454

D25 IN4454

R42 150Ω

+VUN

D23 IN757A 9.1V

D24 IN757A 9.1V

C11 .22 UF

E7 LM324A

R72 24K,1%

W1

TP16 TP15 RL01 SEE NOTE 4

TP17 RL02 TP18

SEE NOTE 4 W2

R26 12K

+8V

E8 IH5012

E8 IH5012

E8 IH5012

POS SIG J4-3

POS MODE L J4-5

TP9

R64 100K,1%

R65 31.6,1%

R66 25.5,1%

R67 5.1K

Q11 2N4403

Q10 2N5640

D27

R69 100K

R70 100K

C19 1UF

R68 4.7K,5%

1N4454

-VUN

+8V

MOTOR CURRENT SENSING RESISTOR .2,5W

R52

TP3

TP12

DC MOTOR RETURN J3-2

DC MOTOR DRIVE J3-6

R50 200 2W,5%

R51 51 1/2W

C13 6.8UF

C14 6.8UF

R45 12K

R48 1K 1/2W

C12 680PF

R49 4.7K

R47 2.7K

R46 2.7K

Q7 2N4403

Q8 2N4401

E3 MJ3000

E4 MJ2500

+VUN

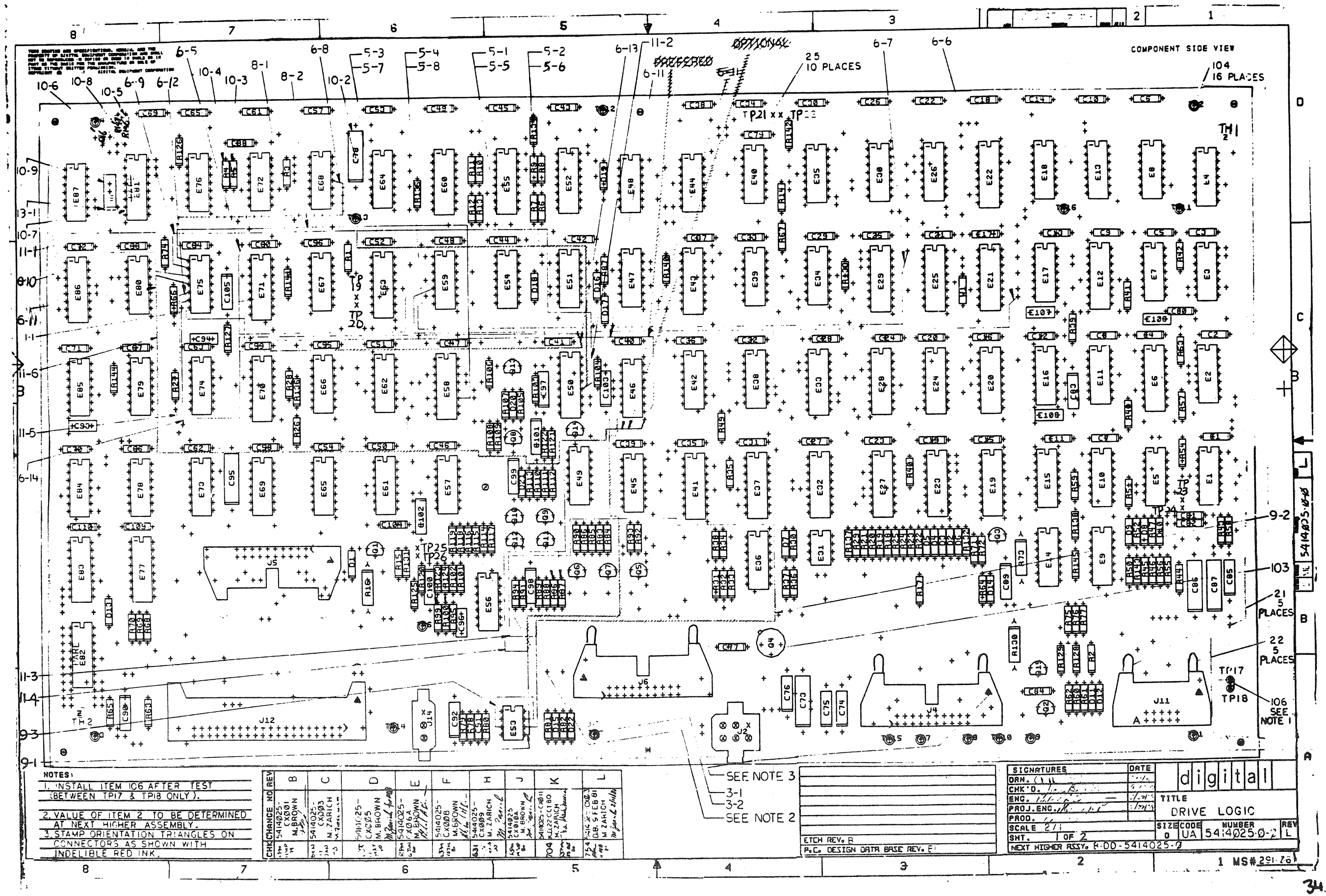
-VUN

POWER AMPLIFIER

DC LOW H

NON INVERT L

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NOTES:

1. INSTALL ITEM 106 AFTER TEST (BETWEEN TP17 & TP18 ONLY).
2. VALUE OF ITEM 2 TO BE DETERMINED AT NEXT HIGHER ASSEMBLY.
3. STAMP ORIENTATION TRIANGLES ON CONNECTORS AS SHOWN WITH INDELIBLE RED INK.

REV	B	C	D	E	F	H	J	K	L
CHK									
CHANGE NO	5414025-CX001 M.BROWN	5414025-CX003 N.ZARICH	5414025-CX005 M.BROWN	5414025-CX006 M.BROWN	5414025-CX008 M.BROWN	5414025-CX009 M.ZARICH	5414025-C10104 M.BROWN	5414025-C10111 M.ZARICH	5414025-C10180 M.ZARICH

ETCH REV. R
P.C. DESIGN DATA BASE REV. F

SIGNATURES	DATE
DRN.	
CHK'D.	
ENG.	
PROJ. ENG.	
PROD.	
SCALE 2/1	
SMT. 1 OF 2	
NEXT HIGHER ASSY. A-DD-5414025-0	

digital

TITLE: DRIVE LOGIC

SIZE	CODE	NUMBER	REV
D	UA	5414025-0-2	L

MS# 291-76

AUTOMATED BY PRTLST.3H(20)

P A R T S L I S T

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
1	1	D-MD-5014024-0-0	5014024-00	DRILL AND ETCH BRD	1	
2	2	EWS		RESISTOR,FINAL TEST, 1/4W, 1%	4	R115,R116,R118,R119
3	3		1000023-00	330.0 MMF 100V 5%200PPM MICA	4	C93,C106-C108
4	4		1000024-00	470.0 MMF 100V 5%200PPM MICA	1	C94
5	5		1000064-00	3.9MFD 10V 10% S.TANT	2	C76,C85
6	6		1000076-00	39 MFD 10V 10% S.TANT	3	C73,C86,C95
7	7		1001610-00	.01 MFD 50V +80-20% 25U CER	74	C1-C6,C8-C39,C40-C45,C47-C49,
					CONT	C51-C53,C55-C68,C70,C71,C77,
					CONT	C79-C82,C84,C88,C104
8	8		1001776-00	1 MFD 35V 10% S.TANT	4	C74,C75,C92,C97
9	9		1004812-00	15 MFD 20V 10% S.TANT	1	C87
10	10		1005784-00	.01 MFD 100V 10% MYLR	1	C101
11	11		1010978-32	.047 MFD 50V 10% CER	1	C96
12	12		1013466-07	220.0 MMF 50V 5% CER	1	C91
13	13		1013466-08	680.0 MMF 50V 10% X7R CER	2	C89,C90
14	14		1013466-09	1000.0 MMF 50V 10% X7R CER	1	C83
15	15		1013466-10	3300.0 MMF 50V 5% CER	4	C98,C100,C103,C105
16	16		1013466-11	.22 MFD 50V +80-20% Z5U CER	2	C99,C102
17	17		1111577-00	1N 4454 TR= 4NS PIV= 50 S	16	D1,D7-D20,D22
18	18		1113953-00	1N 5523D VZ= 5.1 1%	1	D21
19	19		1114117-00	1N 4152 PIV=40 I=75	5	D2-D6
20	20		1209941-02	HEADER 100 40POS RT ANGLE	1	J12
21	21		1209941-03	HEADER RT ANGLE LEFT L	5	
22	22		1209941-04	HEADER RT ANGLE,RIGHT	5	
23	23		1209941-05	HEADER,100 10POS RT ANGLE	1	J11
24	24		1209941-06	HEADER,100 20POS RT ANGLE	3	J4-J6
25	25		1210385-01	PIN 1POS WIRE WRAP	10	TP17-TP26
26	26		1213922-02	HEADER 3POS	1	J14
27	27		1213922-04	HEADER 6POS	1	J2
28	28		1300229-00	100.0 .25 W 5.0 % CC	5	R48,R133-R136

REVISION HISTORY			BASIC PART NO: 5414025
ENG	ECO NUMBER	REV	SECTION A OF A
---	INITIAL	A	SECTION.VARIATION INDEX
MB	5414025-CX001	B	[A] 00
MB	5414025-CX002	C	[B]
MZ	5414025-CX003	D	[C]
MB	5414025-CX005	E	[D]
MB	5414025-CX010A	F	[E]
MZ	5414025-CX014	H	[F]
	W.C.M. 2 MAR 81		[H]
	M. Zarch 3/2/81		[J]
			[K]
			[L]
			[M]
			[N]

DRN: ART SIMM	DATE: 18-APR-79		D	I	G	I	T	A	L		
CHK'D: P. KENDRICK	DATE: 18-APR-79	TITLE PARTS LIST									
		DRIVE LOGIC									
DES.ENG: MIKE BROWN	DATE: 18-APR-79										
RESP.ENG.: MIKE BROWN	DATE: 18-APR-79	DOCUMENT NUMBER									
		SIZE	CODE	NUMBER	REV						
MFG.ENG.: D. LICK	DATE: 18-APR-79	K	PL	5414025-0-DBP	H						
ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:	EDIT #								
D-UA-5414025-0-0	#RL02	Z0496H.PLS	31								

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
29	29		1300271-00	220.0 .25 W 5.0 % CC	4	R3,R14,R41,R143
30	30		1300315-00	470.0 .50 W 5.0 % CC	3	R16,R73,R130
31	31		1300316-00	470.0 .25 W 5.0 % CC	4	R1,R2,R79,R142
32	32		1300365-00	1.0 K .25 W 5.0 % CC	15	R15,R39,R40,R42,R47,R52,R54,R56,
					CONT	R61,R72,R74,R101,R106,R129,R140
33	33		1300411-00	2.0 K .25 W 1.0 % RN55D-F10	1	R144
34	34		1300439-00	3.30 K .25 W 5.0 % CC	3	R93,R124,R126
35	35		1300447-00	4.70 K .25 W 5.0 % CC	35	R6-R13,R26-R28,R34,R35,R38,R43,
					CONT	R44,R49,R53,R57,R58,R62,R75-R78,
					CONT	R80,R82,R92,R102,R105,R123,R125,
					CONT	R127,R138,R145
36	36		1300479-00	10.0 K .25 W 5.0 % CC	2	R70,R107
37	37		1302388-00	2.0 K .25 W 5.0 % CC	13	R18-R21,R45,R50,R66,R67,R71,R87,
					CONT	R122,R128,R131
38	38		1302391-00	20.0 K .25 W 5.0 % CC	1	R59
39	39		1302394-00	30.0 K .25 W 5.0 % CC	1	R95
40	40		1302398-00	470.0 K .25 W 5.0 % CC	1	R55
41	41		1302466-00	100.0 K .25 W 5.0 % CC	1	R121
42	42		1302514-00	39.0 K .25 W 5.0 % CC	2	R91,R120
43	43		1302666-00	10.0 M .25 W 5.0 % CC	1	R94
44	44		1302871-00	1.21 K .25 W 1.0 % RN55D-F10	1	R88
45	45		1303044-00	100.0 K .25 W 1.0 % RN55D-F10	1	R25
46	46		1303047-00	464.0 .25 W 1.0 % RN55D-F10	5	R64,R65,R83,R85,R113
47	47		1303114-00	1.0 K .25 W 1.0 % RN55D-F10	2	R89,R117
48	48		1303312-00	10.0 K .25 W 1.0 % RN55D-F10	7	R17,R29-R31,R36,R60,R63
49	49		1304493-00	562.0 .25 W 1.0 % RN55D-F10	1	R108
50	50		1304841-00	75.0 K .25 W 5.0 % CC	1	R81
51	51		1304862-00	1.62 K .25 W 1.0 % RN55D-F10	1	R110
52	52		1304870-00	6.81 K .25 W 1.0 % RN55D-F10	1	R33
53	53		1305124-00	287.0 .25 W 1.0 % RN55D-F10	2	R84,R86
54	54		1305265-00	39.20 K .25 W 1.0 % RN55D-F10	1	R24
55	55		1305337-00	3.65 K .25 W 1.0 % RN55D-F10	2	R96,R99
56	56		1305405-00	24.90 K .25 W 1.0 % RN55D-F10	1	R23
57	57		1309595-00	1.0 M .25 W 5.0 % CC	3	R46,R51,R132
58	58		1310632-00	2.37 K .25 W 1.0 % RN55D-F10	1	R109
59	59		1317303-00	301.0 .25 W 1.0 % RN55D-F10	2	R97,R100
60	60		1312929-00	62.0 .25 W 5.0 % CC	2	R111,R112
61	61		1312930-00	5.10 K .25 W 5.0 % CC	3	R68,R69,R137
62	62		1312989-00	17.80 K .25 W 1.0 % RN55D-F10	3	R22,R103,R104
63	63		1313589-00	1.40 K .25 W 1.0 % RN55D-F10	1	R90
64	64		1313846-00	2.26 K .25 W 1.0 % RN55D-F10	1	R32
65	65		1314041-00	3.01 K .25 W 1.0 % RN55D-F10	1	R37
66	66		1314491-00	1.02 K .25 W 1.0 % RN55D-F10	1	R114
67	67		1513489-00	2N 4401 NPN 350MW SI 40 20	3	Q7,Q10,Q12
68	68		1513490-00	2N 4403 PNP 350MW SI-40 30	10	Q1-Q3,Q5,Q6,Q8,Q9,Q11,Q13,Q15
69	69		1513697-00	2N 5640 FET N CHNNL	1	Q14
70	70		1909928-00	7416 INVERTER GATE-HEX 1I	4	E9,E10,E68,E85
71	71		1910046-00	7442 DECODER-1 OF 10,BCD	1	E55

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							DRIVE LOGIC		K	PL	5414025-0-DBP	H

AUTOMATED BY PRTLST.3H(20)

P A R T S L I S T

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
72	72		1910268-00	DEC 75107B RECEIVER,LINE,DUAL,	4	E57,E61,E65,E87
73	73		1910298-00	741 OP AMP GEN PURP. COM	1	E31
74	74		1910363-00	7496 SHIFT REG.,5BIT	1	E63
75	75		1910536-00	74S10 NAND GATE-TRIPLE 3IN	1	E45
76	76		1910655-00	74157 MUX 2 TO 1 QUAD	2	E23,E24
77	77		1911341-00	75113 DRIVER,LINE,DUAL,MA	3	E77,E83,E86
78	78		1912107-01	324ANOP AMP,QUAD	1	E49
79	79		1912108-00	339 VOLT CMPRTR,QUAD	3	E5,E36,E56
80	80		1912541-00	79M05 VOLT REG,FIX -5V	1	Q4
81	81		1912697-00	LS174 FF-D HEX W/CLEAR	2	E37,E41
82	82		1912799-00	LS00 NAND-GATE-QUAD 2IN,P	4	E7,E15,E44,E67
83	83		1912801-00	LS02 NOR-GATE-QUAD 2IN	4	E1,E30,E39,E54
84	84		1912803-00	6S04 INVERTER GATE,HEL	2	E79,E80
85	85		1912805-00	LS08 AND GATE-QUAD 2IN,PO	6	E14,E34,E38,E69,E72,E76
86	86		1912807-00	LS10 NAND GATE-TRIPLE 3IN	1	E18
87	87		1912810-00	LS20 NAND GATE-DUAL 4IN	1	E2
88	88		1912813-00	LS27 NOR GATE-TRIPLE 3IN	1	E73
89	89		1912816-00	LS32 OR GATE-QUAD 2IN,POS	4	E17,E35,E59,E84
90	90		1912824-00	LS74 FF-D DUAL,EDGE TRIGG	9	E3,E11,E16,E26,E42,E46,E47,E62,
91	91		1912829-00	LS86 X-OR GATE-QUAD 2IN	3	CONT E75 E51,E66,E78
92	92		1912837-00	LS123 ONE SHOT-DUAL,RETRIG	1	E50
93	93		1912854-00	LS193 COUNTER,SYNCHR,4BIT,	3	E27,E28,E43
94	94		1912855-00	LS195 SHIFT REG.,4BIT PARA	5	E19-E22,E25
95	95		1912857-00	LS197 COUNTER,BINARY,PRESET	4	E9,E8,E13,E74
96	96		1912864-00	LS279 LATCH,QUAD-S-R	6	E6,E12,E29,E33,E58,E71
97	97		1913414-00	LS14 INVERTER GATE-HEX SC	2	E40,E48
98	98		1914156-00	LM 393 VOLT.COMPARATOR DUAL	1	E53
99	99		23368A2-00	A2-02,A2-04	1	E52
100	100		23371A2-00	A2-02,A2-04	1	E60
101	101		23444A2-00	A2-02,A2-04	1	E70
102	102		23445A2-00	A2-02,A2-04	1	E32
103	103		9007201-00	TRANSIPADS #10253	1	
104	104		9007791-00	TERM PCB 2POS SOLDER,TURRET	15	TP1-TP4,TP6-TP16
105	105		9009185-00	JUMPER, WIRE, INSULATED, BLACK R	1	W1
106	106		9105740-55	WIRE(WRAP)30AWG UL1423	A/R	
107	107		1012784-00	.047 MFD 50V +80-20% CER	8	C7,C46,C50,C54,C69,C72,C109,C110
108	108		1911324-00	7414 INVERTER,HEX 1IN SCH	1	E64
109	109		1217377-00	TERM QUICK 1POS TAB PC MNT	1	J15
110	110		1005334-00	*** THIS ITEM IS NOT USED ***	-	
111	111		1305608-00	*** THIS ITEM IS NOT USED ***	-	

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							DRIVE LOGIC		K	PL	5414025-0-DRP	H

REV	CHANGE NO.	DESCRIPTION	DATE	APPROVED
B	5414025-CX0101	M. BROWN	10FEB81	M. ZARICH
C	5414025-CX0202	M. BROWN	10FEB81	M. ZARICH
D	5414025-CX0303	M. ZARICH	10FEB81	M. ZARICH
E	5414025-CX0505	MIKE BROWN	10FEB81	M. ZARICH
F	5414025-CX0604	MIKE BROWN	10FEB81	M. ZARICH
H	5414025-CX0808	M. BROWN	10FEB81	M. ZARICH
J	5414025-CX0909	DC. 18 AUG 80	10FEB81	M. ZARICH
K	5414025-CX0A10	M. ZARICH	10FEB81	M. ZARICH
L	5414025-CX0B13	C.B. 10FEB81	10FEB81	M. ZARICH

IC						
75I078	7	▽	14	13		
		Σ	+5V	-5V	+CV	-8V
75113,-142,74LS123 74LS174,74LS193 74LS193,74LS279	8		16			
324					4	11
UNSPECIFIED	7		14			
ROM		8	16			
339				12		
339					3	
339					3	12

DLI BRUSH CYCLE L
DLI LOGIC POR L
DLS LOGIC POR L
DLS SEEK TIME OUT ERR H
DL3 E2 HELD H
DL3 E1 HELD H
DL2 SIGN FWD H
DL7 GUARD BAND H
DLS DISK STOPPED L
DL4 DISK ON SPEED L
DLS ERR STATE COMD L
DL2 TRK CNT Ø H
RUN L
COVER OPEN H
HOME SWITCH L
HEADS HM GATE H
BRUSH CYCLE LT H
LOAD CART
SEEK CONTROL ROM
STATE ROM
STATE ROM DECODE3
LOAD CART
SPIN UP
BRUSH CYCLE
LOAD HEADS
LOCK ON
SPIN DOWN
DIRECTION
DLI TIME OUT CMD L (5)
DLI STATUS BIT C (2)
DLI STATUS BIT B (2)
DLI STATUS BIT A (2)
DLI SPIN DOWN L (4)
BRAKE L
DLI LOCK ON L (3,5)
VEL MODE L
POS MODE L
DISK MOTOR OFF L
DLI BRUSH HM H (2)
START DM L
DLI SPIN UP L (5)
DLI COVER OPEN H (2)
DLI HOME SWITCH L (2
DLI LOAD HDS L (5)
DLI POR OR LOAD CART L(2),(4)
DLI RESET TRK CNT L (2)
DLI VEL CMD 2 H (2)
DLI VEL CMD 1 H (2)
LOAD CART EN H
LOAD LP H

DRN.						
CHK'D						
ENG						
PROJ. ENG						
PROD.						
NEXT HIGHER ASSY.						
SIZE D	CODE	54140025-0-1				REV.
SCALE						
SHEET 1 OF 2						

DRIVE LOGIC (STATE CONTROL LOGIC) (DLI)

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