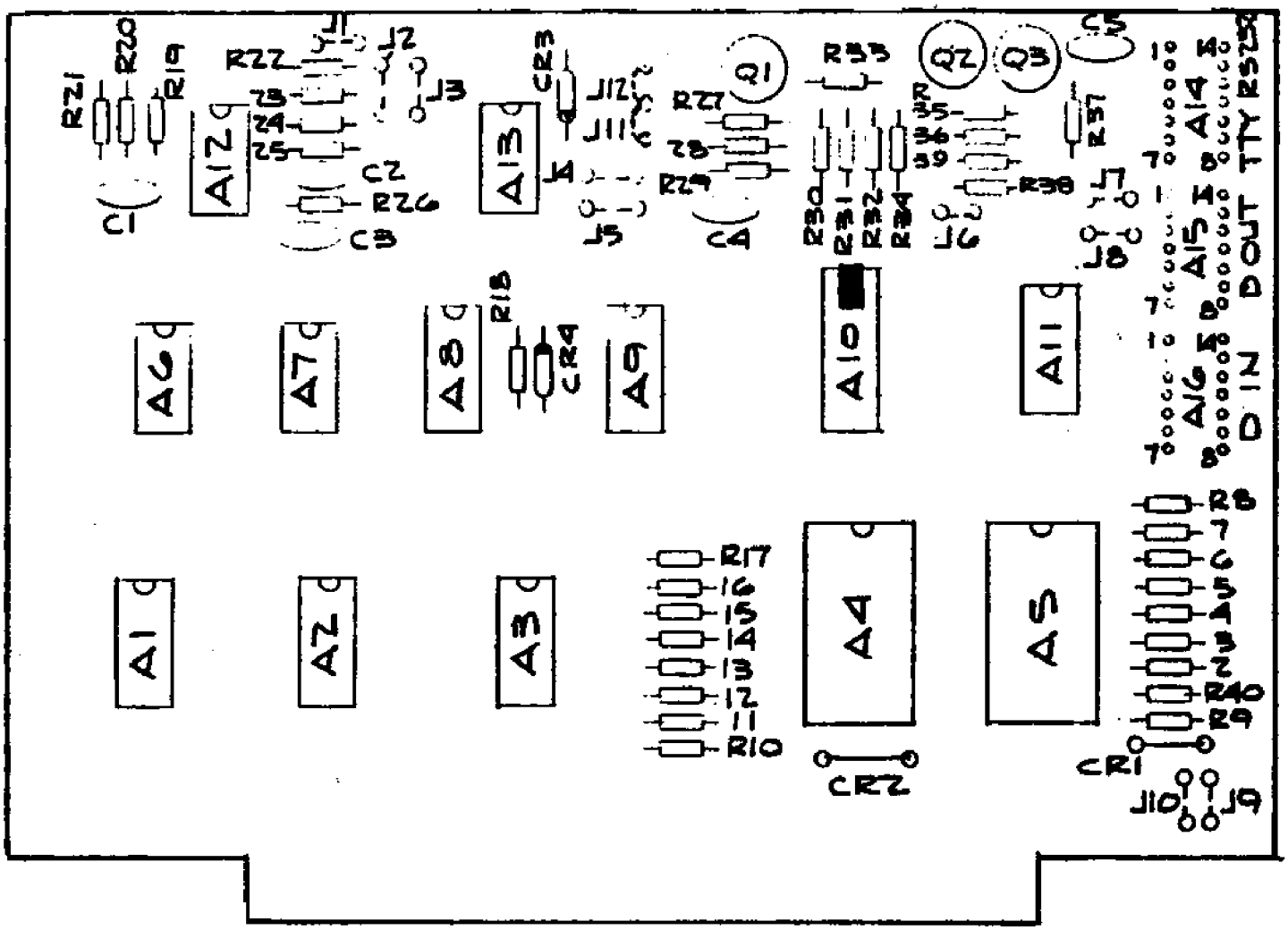
ASSEMBLY GIANT BD.



RES.

10K	R18, 24, 33
MEG.	R19 R20
100Ω	R34 *
100K	R22, R23
100Ω	R26
390Ω	R28
3.9K	R31, 32, 37
1K	R25, 29, 30, 35, 36, 38, 39
22K	R27, R21
	R2-R17, 40

INT CKT'S

1853	A1, A2
4050	A3, A9, A11
1852	A4, A5
4049	A6
74C02	A7
74C174	A8
745471	A10
LM3900	A12
74C20	A13

CAP.

.15	C1, C4
.0068	C2, C3
.015	C5

DIODE

1N4148	CR3, CR4

TRANS

2N5232	Q1
2N4355	Q2, 3

* MAY REQUIRE CHANGE (SEE TEXT)

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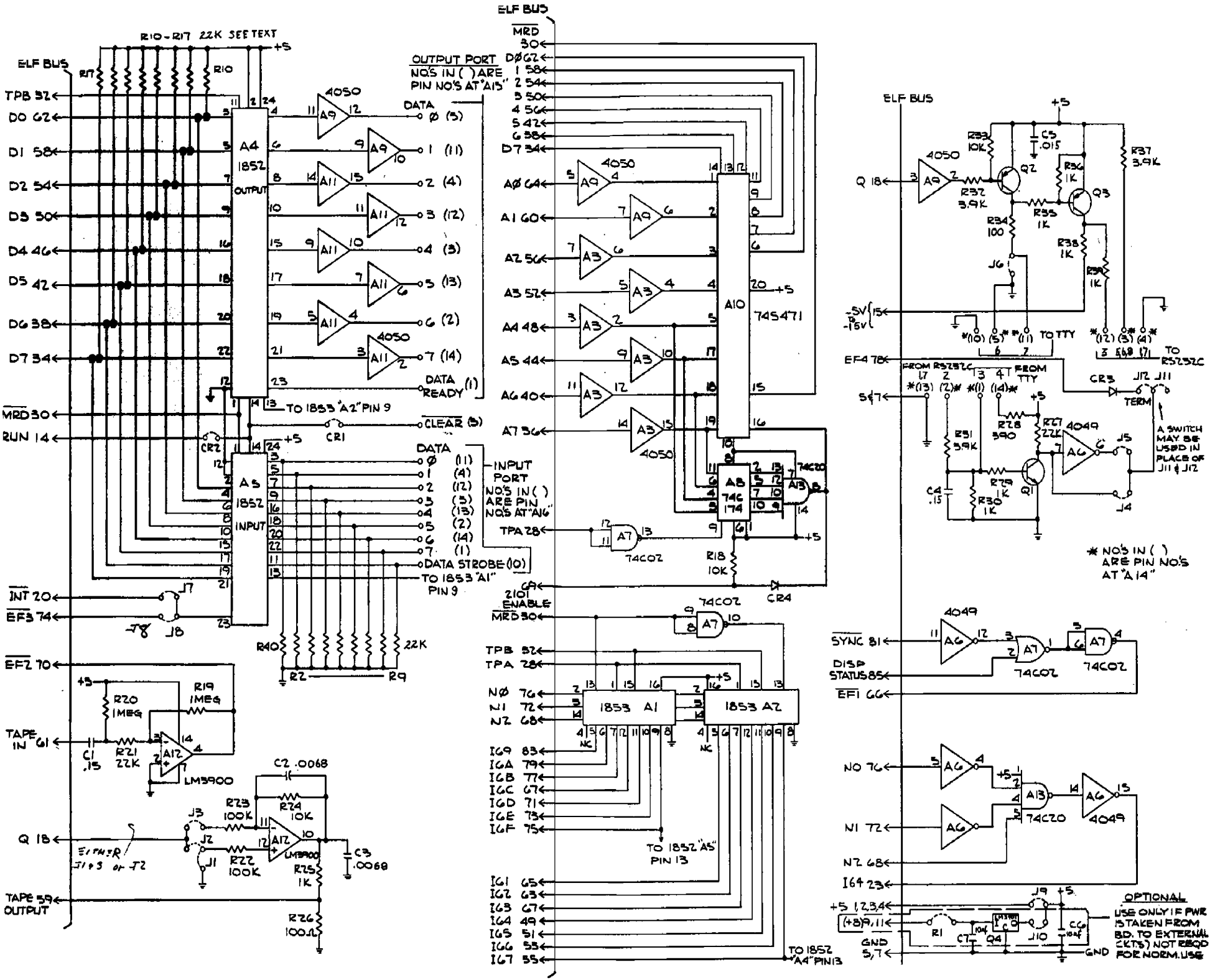
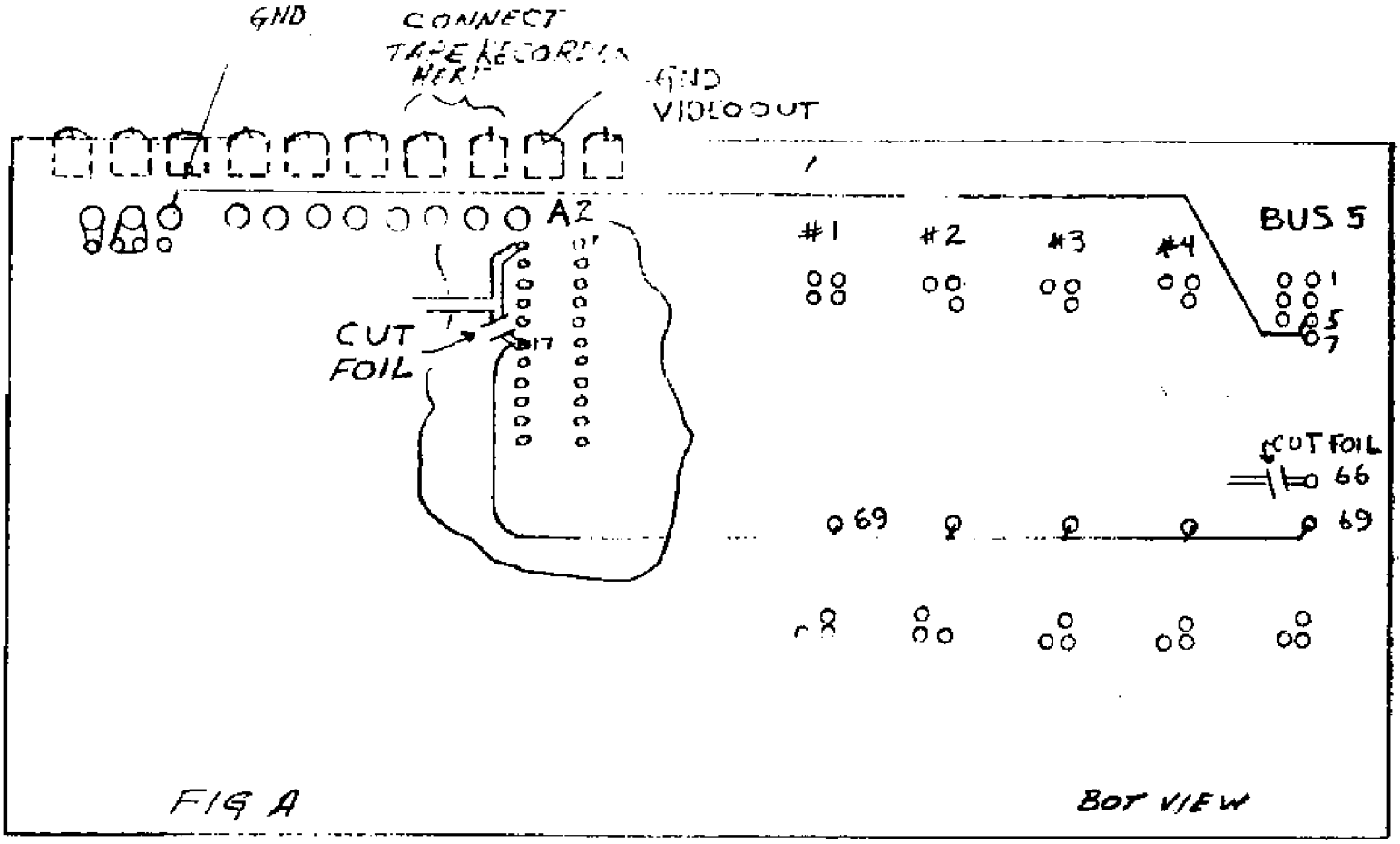

R10-R17 22K SEE TEXT
ELF BUS
TPB 32
DO 62
D1 58
D2 54
D3 50
D4 46
D5 42
D6 38
D7 34
MRD 30
RUN 14
INT 20
EF3 74
EF2 70
TAPE IN 61
Q 18
TAPE 59 OUTPUT
A4 1852 OUTPUT
A5 1852 INPUT
4050
DATA Ø (5)
1 (11)
2 (4)
3 (12)
4 (3)
5 (13)
6 (2)
7 (14)
DATA READY (1)
TO 1853 "A2" PIN 9
CLEAR (5)
CR1
CR2
DATA Ø (11)
1 (4)
2 (12)
3 (5)
4 (13)
5 (2)
6 (14)
7 (1)
DATA STROBE (10)
TO 1853 "A1" PIN 9
J7
J8
R40 22K
R2
R9
R19 1MEG
R20 1MEG
R21 22K
C1 .15
A12
LM3900
C2 .0068
R23 100K
R24 10K
R22 100K
R25 1K
R26 100Ω
C3 .0068
J3
J2
J1
EITHER J1 + 3 OR J2
OUTPUT PORT
NO'S IN ( ) ARE PIN NO'S AT "A15"
INPUT PORT
NO'S IN ( ) ARE PIN NO'S AT "A16"
A10 745471
A8 74C 174
74C20
74C02
R18 10K
CR4
2101 ENABLE
TPB 52
TPA 28
N0 76
N1 72
N2 68
1853 A1
1853 A2
NC
I69 83
I6A 79
I6B 77
I6C 67
I6D 71
I6E 73
I6F 75
TO 1852 "A5" PIN 13
I61 65
I62 63
I63 67
I64 49
I65 51
I66 53
I67 55
TO 1852 "A4" PIN 13
Q 18
R33 10K
C5 .015
R37 3.9K
R32 3.9K
R36 1K
R35 1K
R34 100
R38 1K
R39 1K
Q2
Q3
J6
-5V
-15V
TO TTY
TO RS232C
EF4 78
FROM RS232C
FROM TTY
CR3
J12 J11
TERM
A SWITCH MAY BE USED IN PLACE OF J11 & J12
R28 390
R27 22K
R31 3.9K
R29 1K
R30 1K
C4 .15
Q1
J5
J4
* NO'S IN ( ) ARE PIN NO'S AT "A 14"
SYNC 81
DISP STATUS 85
EF1 66
4049
74C02
NO 76
N1 72
N2 68
I64 23
74C20
OPTIONAL
USE ONLY IF PWR IS TAKEN FROM BD. TO EXTERNAL CKTS) NOT REQD FOR NORM. USE
+5 1,2,3,4
(+8)9,11
GND 5,7
R1
C7
Q4
J10
C6
J9

MODIFICATIONS TO BASIC ELF--VERSIONS I AND II



MONITOR PROGRAM

00	90	A1	B3	B4	B5	86	B7	F8	FF	A2	E2	21	81	B2	80	52
10	F3	3A	0B	F8	38	A3	F8	29	A4	F8	33	A5	D3	3F	1D	22
20	8A	52	64	37	23	6C	30	1C	D3	3F	29	37	2B	6C	64	22
30	30	28	D3	22	52	64	30	32	D4	F8	4D	F4	A8	02	FD	05
40	33	47	F8	EE	D5	7B	00	D4	BA	D4	AA	06	A3	53	58	5D
50	78	C8	F6	9A	B0	8A	A0	E0	D0	4A	D5	30	58	7B	D0	D5
60	5A	1A	30	5D	D3	7B	F8	1D	3B	6D	F8	07	1D	52	FF	01
70	33	6E	39	64	7A	02	30	6E	F8	8D	A1	D4	73	D4	8A	F5
80	AC	12	9A	75	FC	01	BC	D0	F8	65	A6	81	A3	F8	80	BD
90	FF	00	D6	9D	3A	90	8A	D5	7B	4A	BB	FC	00	F8	09	AB
A0	AD	D6	2B	8B	32	AB	9B	FE	BB	30	A1	8D	F6	D6	2C	9C
B0	3A	96	D6	D6	D6	D6	30	38	1D	D3	F8	0D	35	BC	35	B8
C0	FF	01	33	BE	3D	C4	30	B9	F8	CD	A1	30	7B	F8	BA	A7
D0	F8	F9	BD	D7	3B	D0	9D	3A	D3	D7	33	D9	F8	01	BD	AD
E0	D7	9D	7E	BD	3B	E0	D7	8D	F6	33	45	9D	5A	8A	D5	1A
F0	2C	9C	3A	D9	30	38	D4	4A	F3	3A	F7	2A	9A	D5	30	58