

Volume 1 - Chassis 15 - CT15 - [Further mag tape control]

Cover page plus two pages of pinout and then
First copy/variant of sheets 1 to 4 of 4.
Second variant of sheets 1 to 4 of 4
Logical diagram

The Computer Laboratory Relics Project <https://www.cl.cam.ac.uk/relics/>

Digitised September 2026.

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CHASSISM15.

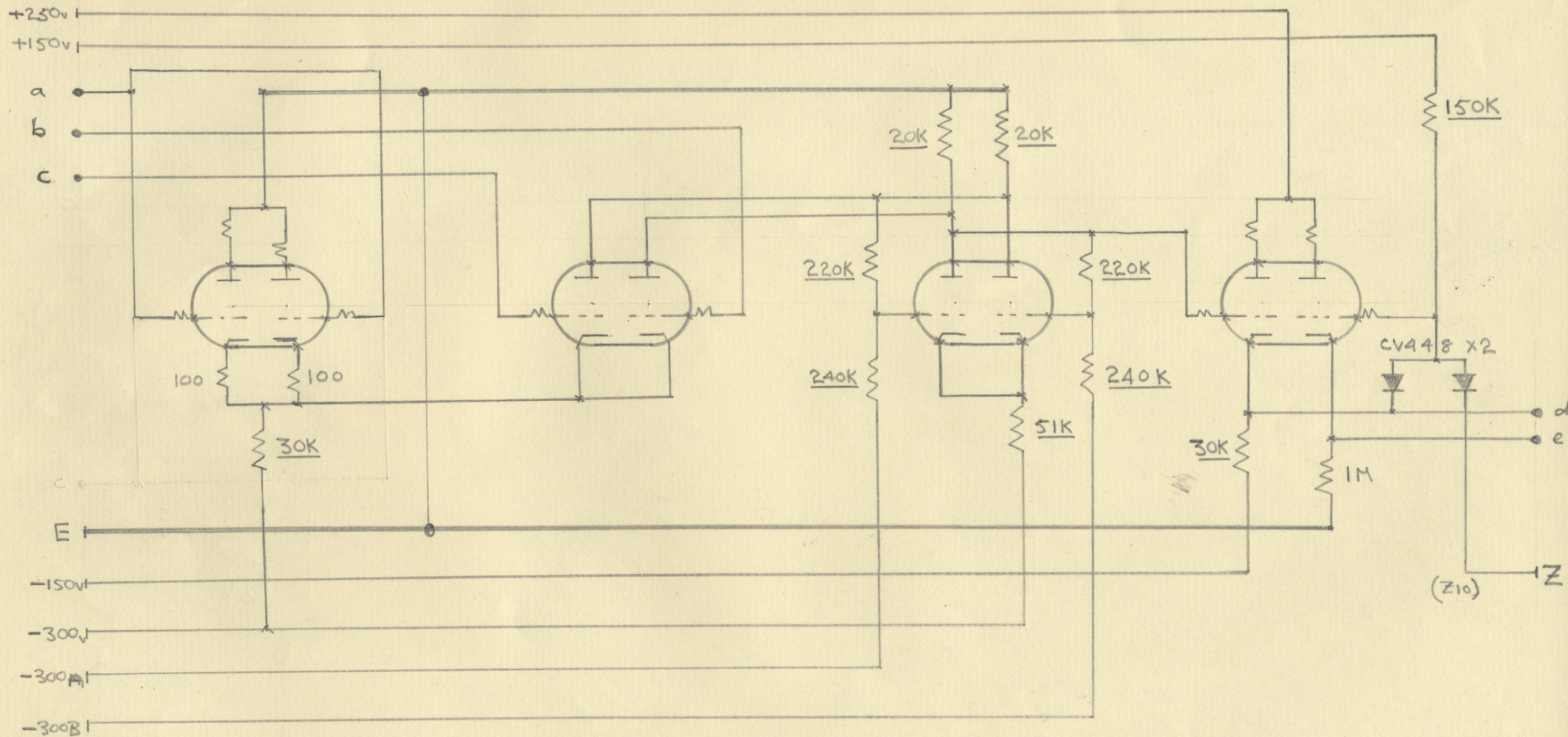
<u>Inputs.</u>		<u>Outputs.</u>	
<u>Pin No.</u>	<u>Source.</u>	<u>Pin No.</u>	<u>Designation.</u>
25	Disc. Spare track 4 Blockmark	29	Clock, phase 1.
28	Z7+	30	Gated clock to track 5
31	Set 0, Spare track 4 Blockmark	32	Check Flipflop -
34	Z10+	33	Check flipflop -
37	Set 1, Spare track 4 Blockmark	35	Clock, Phase 2.
38	Check track input.	36	Gated clock to output sync.
41	Set check flipflop	39	Tracks check output.
42	Reset check flipflop	40	Spare track output.
55	Disc. track 1	43	Output, track 1.
56	Disc. Track 2.	44	Output, track 2.
57	Disc. track 3.	45	Output, track 3.
58	Disc. track 6.	46	Output, track 6.
59	Disc. track 7.	47	Output, track 7.
60	Disc. track 5.	48	Output, track 5. Clock.
61	Set 0 track 1.	49	Gated out 1 to digit 7 in X7
62	Set 0, track 2.	50	Gated out 2 to digit 15 in X15
63	Set 0, track 3.	51	Gated out 3 to digit 23 in X23
64	Set 0, track 6.	52	Gated out 6 to digit 31 in X31
65	Set 0, track 7.	53	Gated out 7 to digit 39 in X39
66	Set 0, track 5. Clock.	54	Gated out 5 to digit 0 in X0
67	Set 1, track 1.		
68	Set 1, track 2.		
69	Set 1, track 3.		
70	Set 1, track 6.		
71	Set 1, track 7.		
72	Set 1, track 5. Clock.		

<u>Track No.</u>	<u>Write from</u>	<u>Read into.</u>
1.		X7
2.		15
3.		23
4. Blockmark		31
5. Clock		0
6.		31
7.		39
8. Spare.		1

CHASSIS 15.

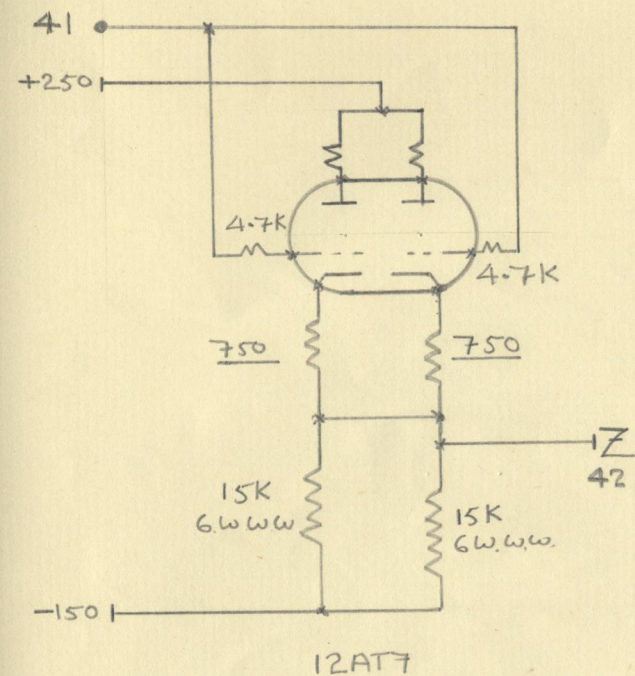
<u>Inputs.</u>		<u>Outputs.</u>	
<u>Pin No.</u>	<u>Source.</u>	<u>Pin No.</u>	<u>Designation.</u>
25	Disc., Track 8	28	Magnetic Tape - Start.
27	Disc., Track 54	32	Output - Track 8.
		34	Blockmark f/f neon.
29	G11+ , write.	30x 36	Output Synch.
30	G11- , read.	38	Gated output - Track 8.
31	Set 0, Track 8	42	Z10+ To chassis 17.
33	Set 0, Track 54	43	Output - Track 1.
35	Z9+	44	Output - Track 2.
37	Set 1, Track 8	45	Output - Track 3.
39	0B (J60)	46	Output - Track 6.
41	Z10+	47	Output - Track 7.
55	Disc. Track 1	48	Output - Track 5.
56	Disc. Track 2	49	Gated output - Track 1.
57	Disc. Track 3	50	Gated output - Track 2.
58	Disc. Track 6	51	Gated output - Track 3.
59	Disc. Track 7	52	Gated output - Track 6.
60	Disc. Track 5	53	Gated output - Track 7.
61	Set 0, Track 1	54	Gated output - Track 5.
62	Set 0, Track 2		
63	Set 0, Track 3		
64	Set 0, Track 6		
65	Set 0, Track 7		
66	Set 0, Track 5		
67	Set 1, Track 1		
68	Set 1, Track 2		
69	Set 1, Track 3		
70	Set 1, Track 6		
71	Set 1, Track 7		
72	Set 1, Track 5		

<u>Track No.</u>	<u>Written From.</u>	<u>Read Into.</u>	<u>Function.</u>
1	D0	X7	Data
2	D8	X15	Data
3	D16	X23	Data
4	G13	Chassis 11	Blockmark
5	Chassis 17	X0	Clock
6	D24	X31	Data
7	D32	X39	Data
8	earth.		Spare



Anode Stoppers - 100Ω 1/4W.
 Grid Stoppers - 4.7K 1/4W.
 Underlined Resistors - Hi-stability Types.
 Others - 1/2W.

ALL VALVES - Type 12AT7
 8 CIRCUITS PER CHASSIS

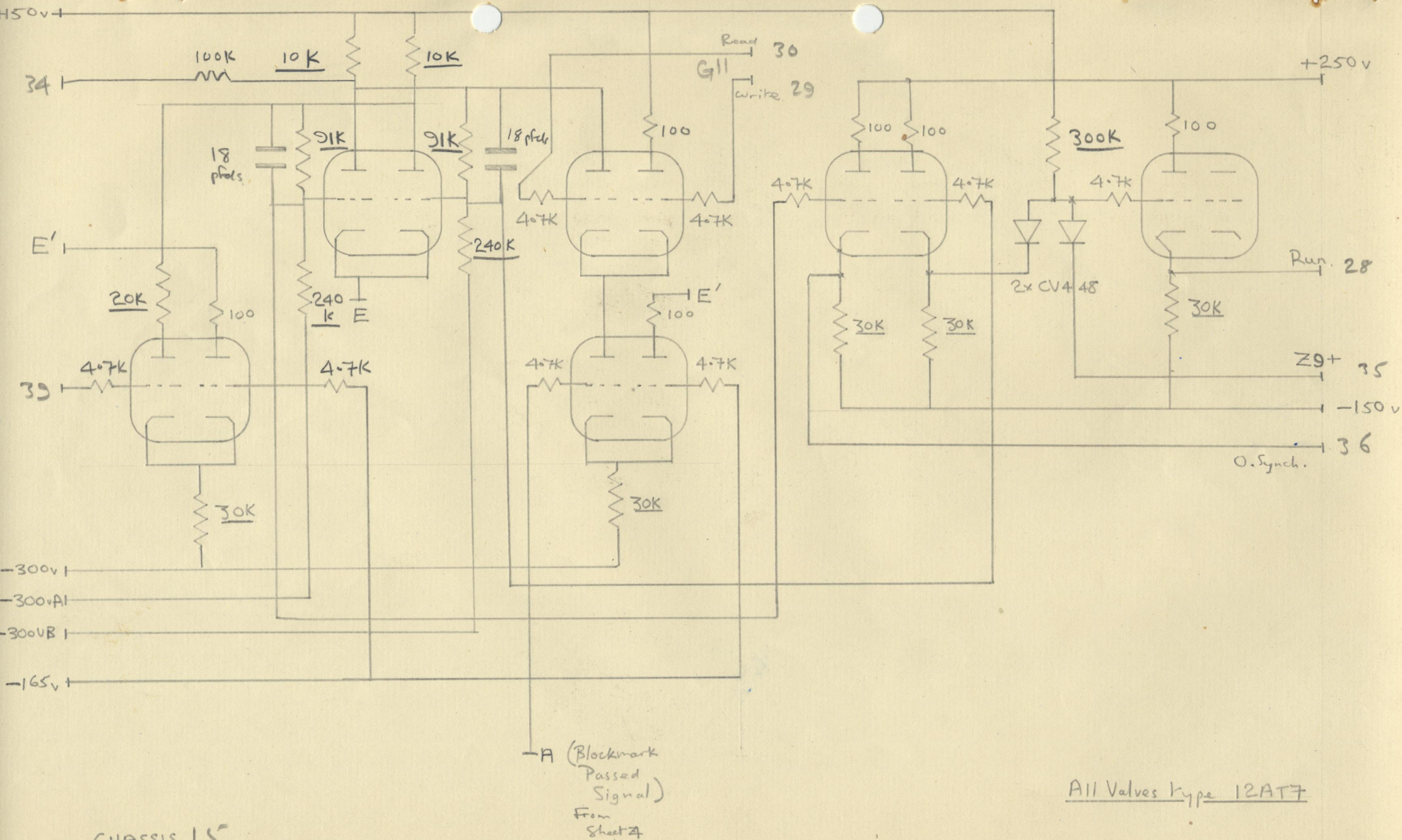


One Circuit per Chassis

a	55	56	57	58	59	60	25	27
b	61	62	63	64	65	66	31	33
c	67	68	69	70	71	72	37	39
d	43	44	45	46	47	48	32	34
e	49	50	51	52	53	54	38	40

CHASSIS 15

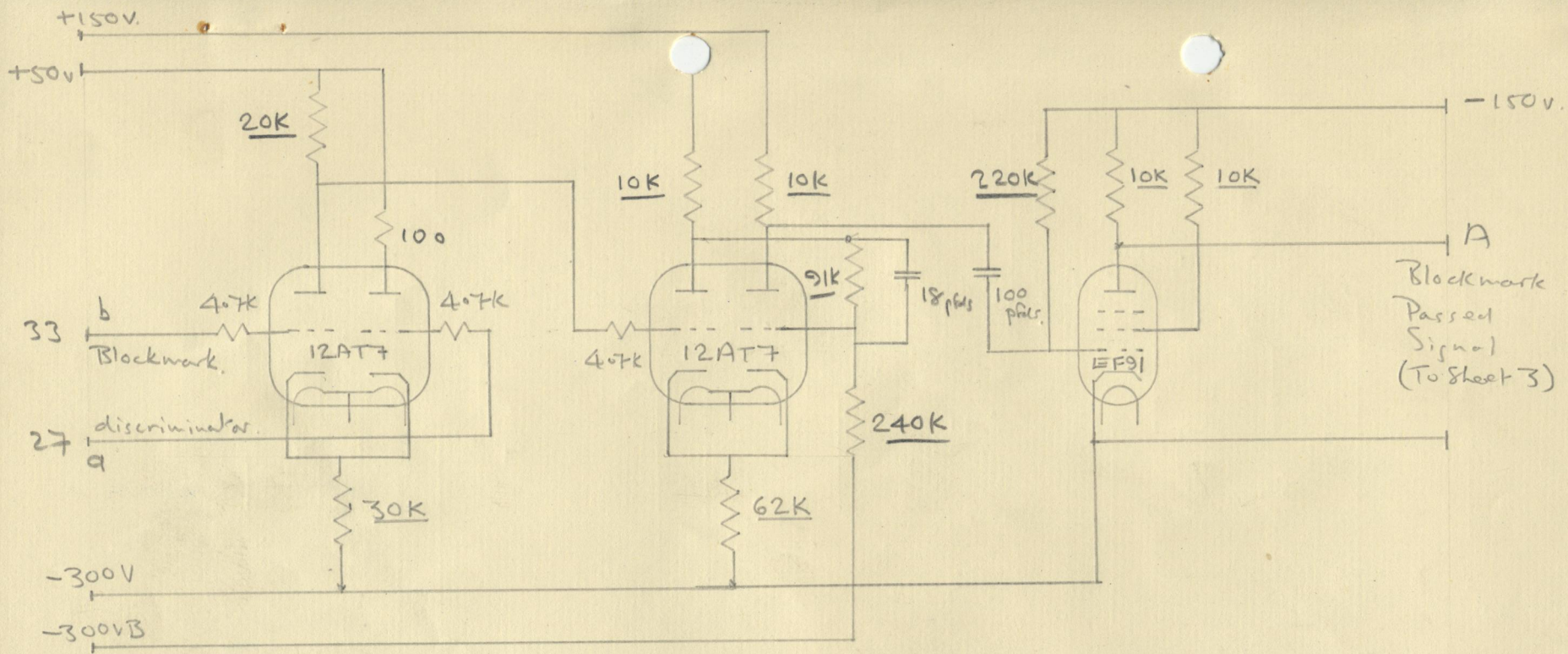
Sheet 2 of 4 Sheets



CHASSIS 15"

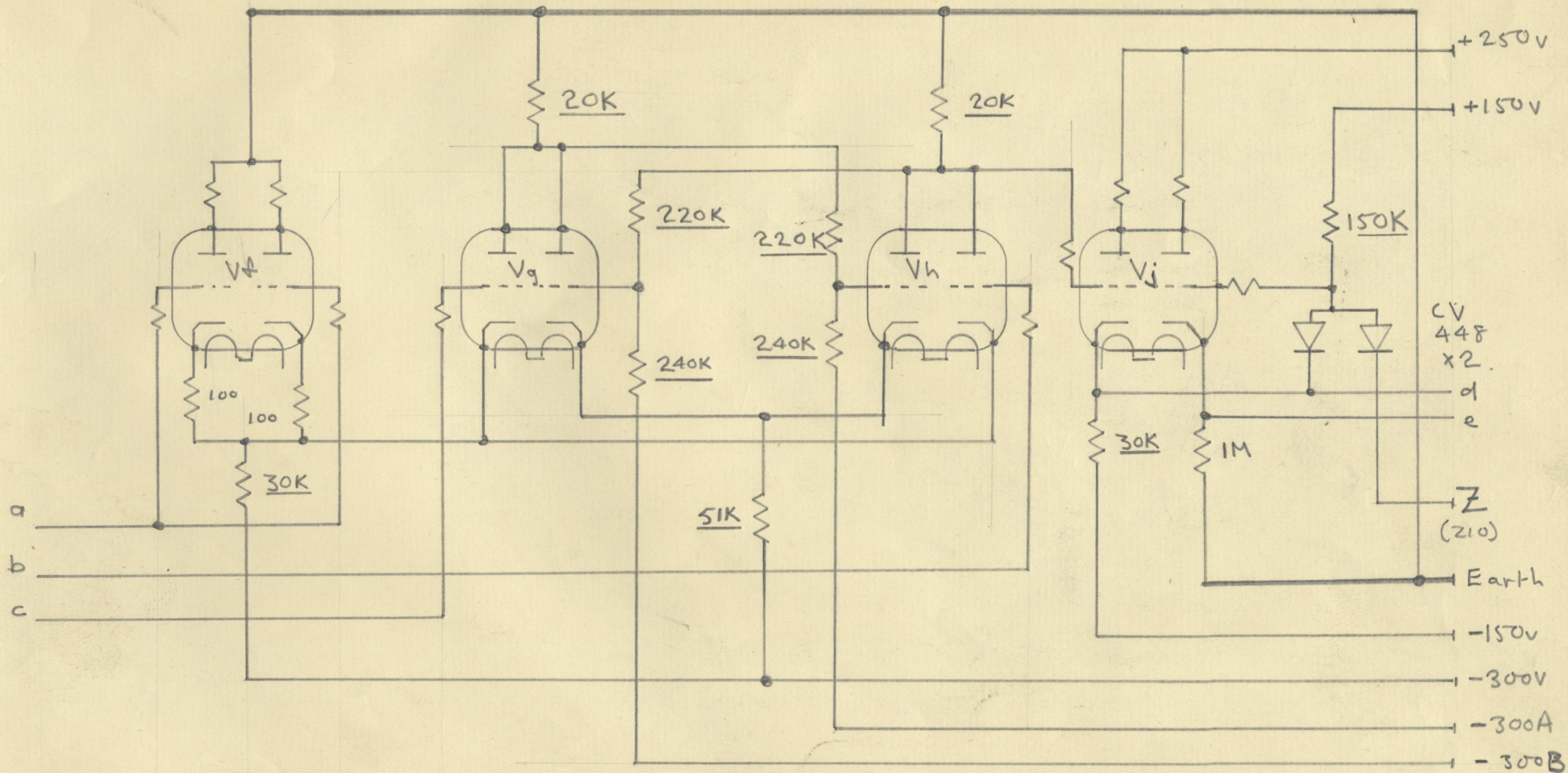
Sheet 3- of 4 Sheets

All Valves type 12AT7



CHASSIS 15

Sheet 4 - of 4 Sheets



CHASSIS 15 - Magnetic Tape Store
Digit Stabilizers.

Sheet 1 of 4 Sheets

All valves
Type 12AT7
7 Circuits per
chassis.

Anode stoppers 100 - 1/4w
Grid stoppers 4.7K 1/4w
Underlined resistors - 5% Hi-stability
types.
Others - 1/2w.

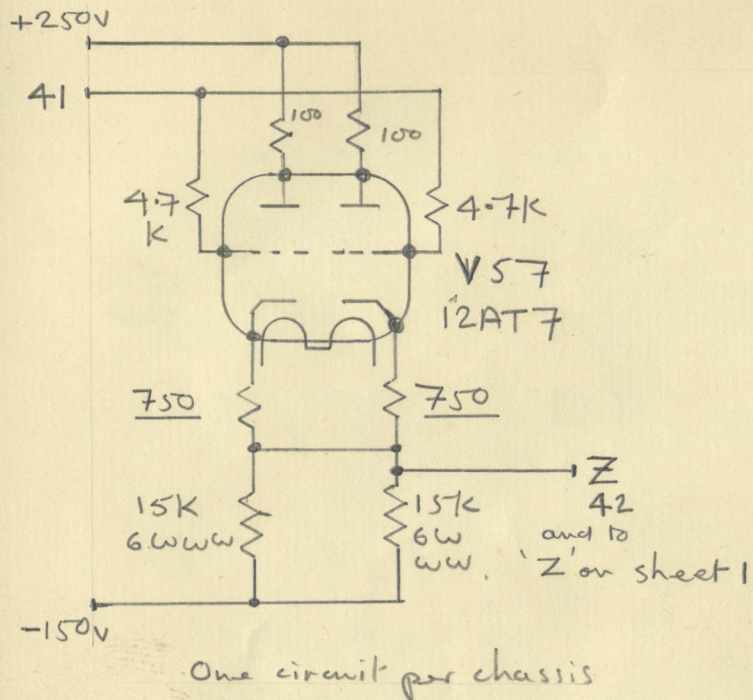
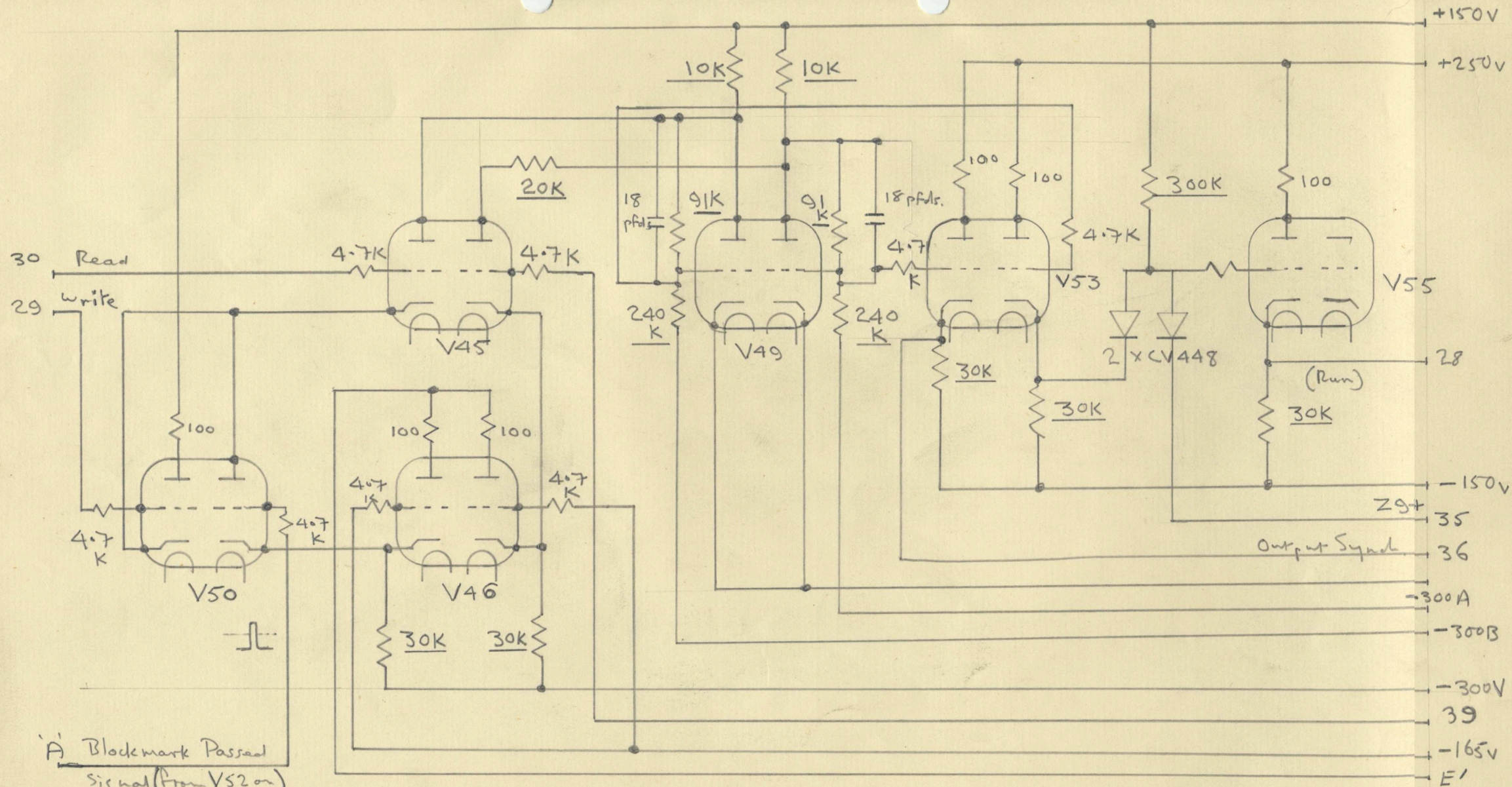


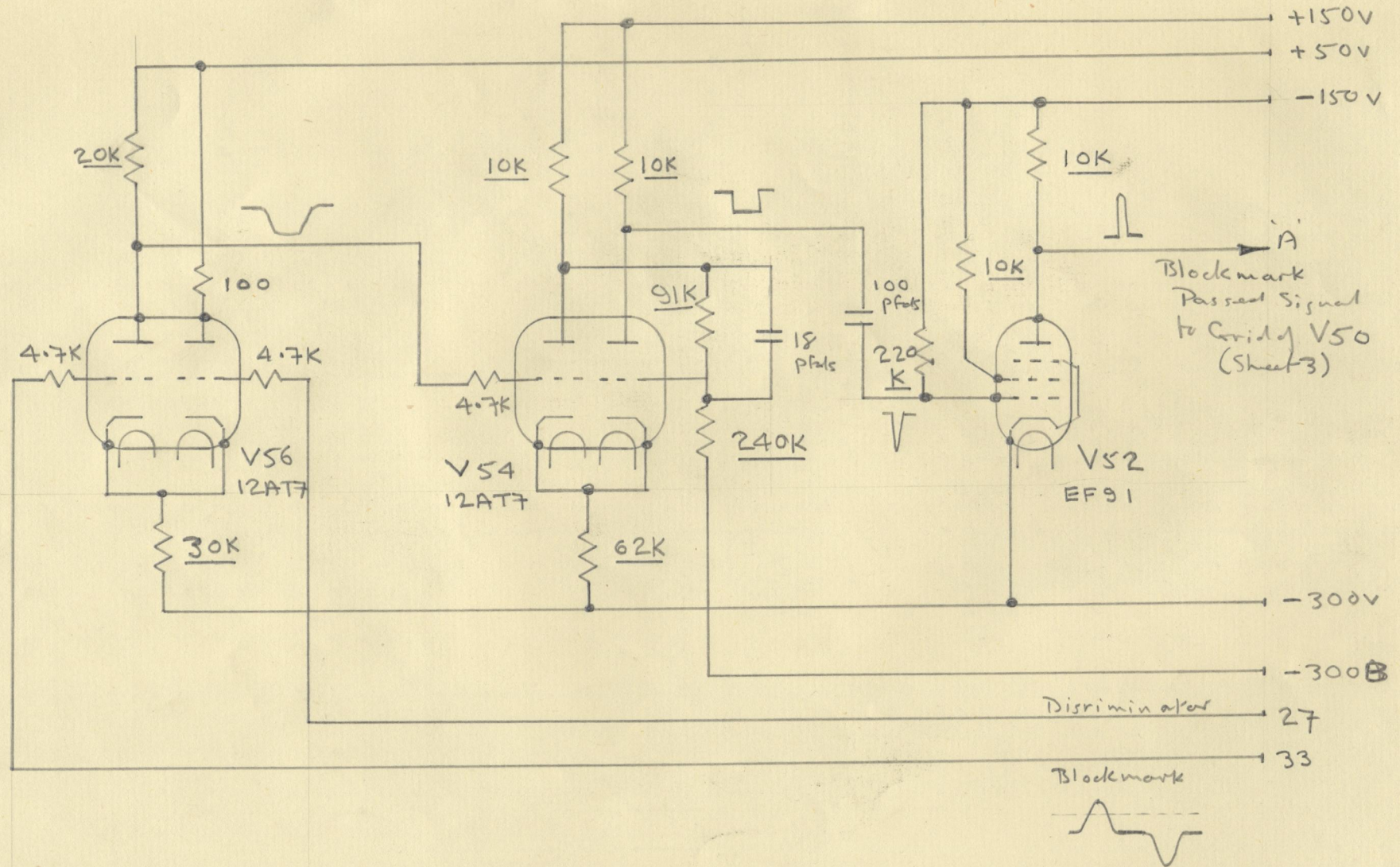
Table of pin connections for sheet 1.

Normal Track No.	1	2	3	6	7	5	8
a	55	56	57	58	59	60	25
b	61	62	63	64	65	66	31
c	67	68	69	70	71	72	37
d	43	44	45	46	47	48	32
e	49	50	51	52	53	54	38
V _A	1	7	13	19	25	31	37
V _g	2	8	14	20	26	32	38
V _h	4	10	16	22	28	34	40
V _i	3	9	15	21	27	33	39

CHASSIS 15-

Sheet 2 of 4 Sheets





CHASSIS 15 - Blockmark Discriminator
 and shaping cts.

SHEET 4 of 4 sheets

