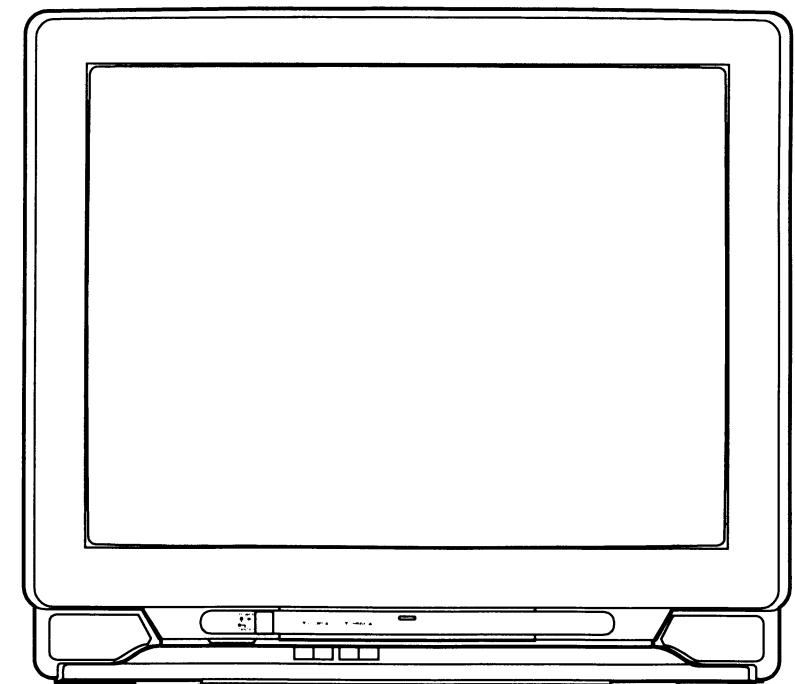


SERVICE MANUAL

25" COLOR TELEVISION

TV-2500A MK8



SCHEMATIC DIAGRAMS / PCB'S AND TEST POINTS

Standard Notes

Warning

Critical components having special safety characteristics are identified with a ⚠ by the Ref. No. in the parts list and enclosed within a broken line * (where several critical components are grouped in one area) along with the safety symbol ⚠ on the schematics or exploded views.

Use of substitute replacement parts which do not have the same specified safety characteristics may create shock, fire, or other hazards.

Under no circumstances should the original design be modified or altered without written permission from Funai Electric Company. Funai assumes no liability,

express or implied, arising out of any unauthorized modification of design. Servicer assumes all liability.

Notes:

- ① Do not use the part number shown on these drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since these drawings were prepared.
- ② All resistance values are indicated in ohms (K=10³, M=10⁶).
- ③ Resistor wattages are 1/5W or 1/6W unless otherwise specified.
- ④ All capacitance values are indicated in μF (P=10⁻⁶ μF).

VOLTAGE CHART

(Unit: Volt)

Pin No.	IC101	IC102	IC201	IC501	IC601	IC701	IC801
1	2.6	0.0	2.1	0.0	63.3	1.5	10.9
2	2.8	0.0	5.3	15.1	62.2	1.5	0
3	2.4	0.0	4.7	26.9	0	1.5	3.1
4	1.6	0.0	2.5	0.7	0.6	1.5	2.9
5	3.6	5.1	1.5	0		1.6	0
6	0.0	4.1	1.5	1.6		0.0	2.8
7	0.0	0.0	0.0	26.4		0.0	3.0
8	0.0	5.1	1.9			0.0	0
9	2.9		3.2			11.9	NC
10	1.7		2.3			11.9	
11	1.7		3.2			11.9	
12	1.7		2.8			2.4	
13	0.0		5.2			2.5	
14	0.0		4.4			2.5	
15	0.0		4.4			1.5	
16	4.3		5.2			12.0	
17	0.0		2.7				
18	5.2		12.0				
19	5.9		2.7				
20	0.0		2.5				
21	0.0						
22	0.0						
23	0.0						
24	0.0						
25	0.0						
26	3.9						
27	4.8						
28	2.9						
29	3.0						
30	0.0						
31	2.2						
32	2.3						
33	5.1						
34	0.0						
35	4.8						
36	4.4						
37	0.0						
38	0.0						
39	5.1						
40	5.1						
41	4.1						
42	5.1						

Pin No.	IC301	Pin No.	IC301
1	8.5	33	6.9
2	8.0	34	3.2
3	8.5	35	1.0
4	6.5	36	7.9
5	6.5	37	6.1
6	12.0	38	7.2
7	3.0	39	2.2
8	6.5	40	9.2
9	6.5	41	3.5
10	NC	42	3.5
11	5.9	43	3.5
12	5.2	44	5.0
13	5.2	45	5.0
14	7.8	46	5.0
15	6.0	47	7.3
16	10.6	48	3.1
17	3.4	49	7.2
18	4.4	50	0.0
19	0.0	51	7.4
20	5.9	52	0.0
21	0.0	53	0.0
22	11.3	54	0.0
23	5.3	55	6.0
24	5.8	56	3.2
25	4.9	57	5.8
26	3.2	58	4.8
27	11.0	59	3.3
28	3.3	60	6.0
29	0.7	61	12.0
30	8.7	62	6.0
31	6.2	63	12.0
32	6.1	64	8.0

Input: PAL Color Bar Signal (with 1KHz Audio Signal)

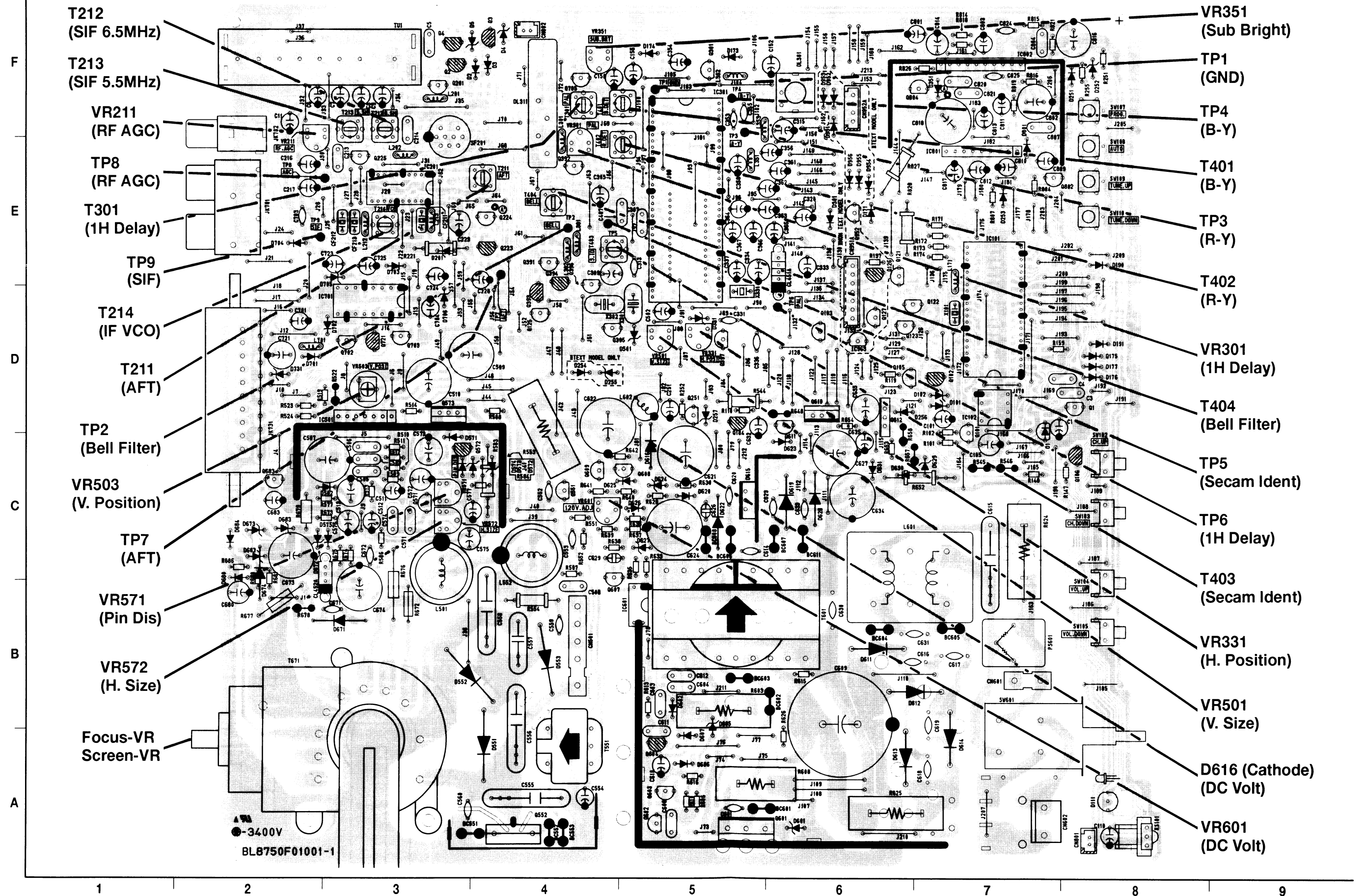
Receiving Ch.: E2 ch (48.25MHz)

Preset Mode: Press Picture Select button on the remote control unit, then press the number "1" button.

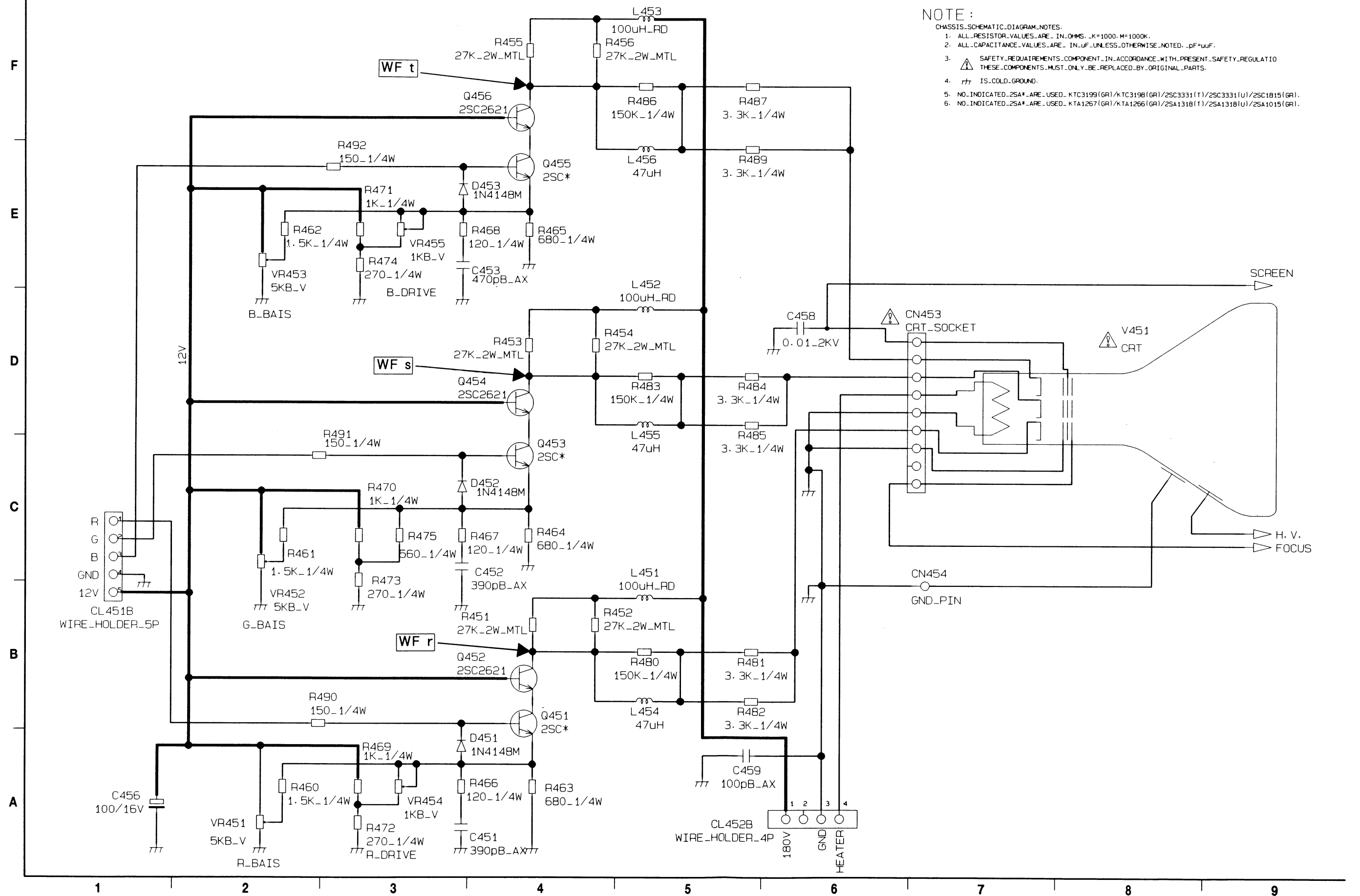
Brightness--- Center
Color--- Center
Contrast--- Approx 70%
Volume--- Minimum

Pin NO.	IC802	Pin No.	E	C	B	Pin No.	E	C	B
1	0.6	Q1	0.0	1.3	0.6	Q552	0.0	—	-0.1
2	0.0	Q2	11.9	0.0	11.5	Q571	1.6	8.5	2.1
3	~	Q3	11.9	0.0	11.8	Q572	11.0	0.6	10.5
4	0.0	Q4	11.9	11.8	11.1	Q573	0.0	10.8	0.6
5	0.0	Q101	5.1	9.8	5.7	Q601	0.5(G)	316(D)	0.1(S)
6	~	Q102	5.7	5.7	5.0	Q602	0.0	0.6	-0.1
7	9.1	Q103	0.0	3.1	0.0	Q603	0.0	0.6	-8.5
8	0.0	Q104	29.0	9.8	28.7	Q604	0.6	0.0	0.6
9	18.3	Q105	0.0	28.5	0.0	Q607	6.7	62.0	7.3
10	9.1	Q106	5.1	-2.1	5.3	Q608	4.2	120.0	0.0
		Q121	0.0	4.8	0.0	Q609	0.0	0.0	0.6
		Q122	0.0	3.9	0.0	Q610	18.5	18.5	17.8
		Q123	0.0	4.4	0.0	Q611	0.0	0.1	0.6
		Q125	0.0	0.7	0.0	Q612	12.0	12.4	12.7
		Q201	0.8	9.4	1.5	Q702	2.4	12.0	3.0
		Q223	12.0	5.2	11.9	Q703	1.9	12.0	2.5
		Q224	0.0	12.0	0.0	Q705	0.0	11.9	0.0
		Q251	0.0	4.3	0.0	Q721	3.1	0.0	2.5
		Q301	0.0	12.0	0.0	Q802	0.0	0.0	0.6
		Q391	0.0	0.0	0.7	Q804	0.0	18.2	0.0
		Q392	0.0	6.0	0.0	Q451	3.1	11.5	3.5
		Q393	5.1	0.0	4.5	Q452	11.5	147.1	12.0
		Q394	5.1	0.0	6.0	Q453	3.1	11.5	3.5
		Q395	0.0	6.1	0.0	Q454	11.5	153.9	12.0
		Q397	0.0	0.0	0.0	Q455	3.2	11.5	3.5
		Q551	0.0	86.1	0.3	Q456	11.5	154.0	12.0

Main PCB (Top View)



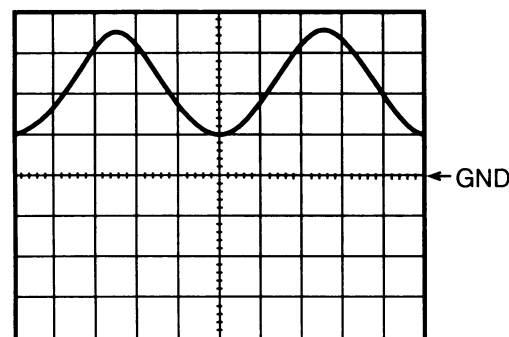
CRT Schematic Diagram



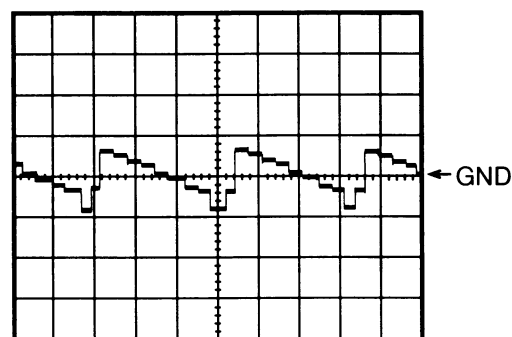
WAVEFORMS

WFa ~ WFt = Waveforms to be observed at
Waveform check points.
(Shown in Schematic Diagram.)

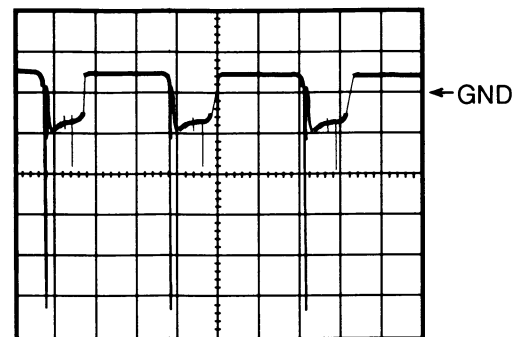
Input: PAL Color Bar Signal (with 1KHz Audio Signal)
Receiving Ch.: E2 ch (48.25MHz)
Preset Mode: Press Picture Select button on the remote control unit,
then press the number "1" button.
(Brightness---Center Color---Center Contrast---Approx 70%)



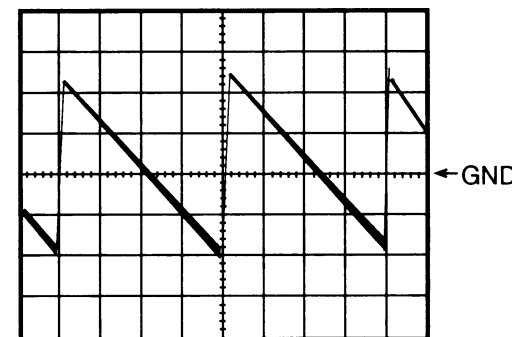
WFa 1DIV: 1V 200μsec



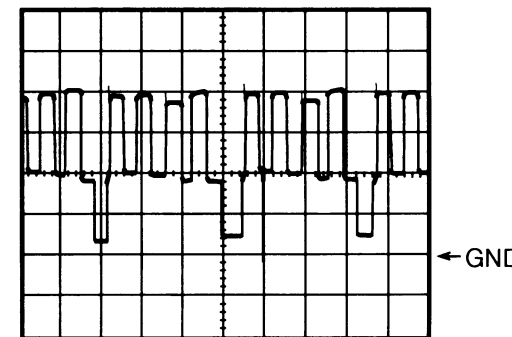
WFe 1DIV: 0.5V 10μsec



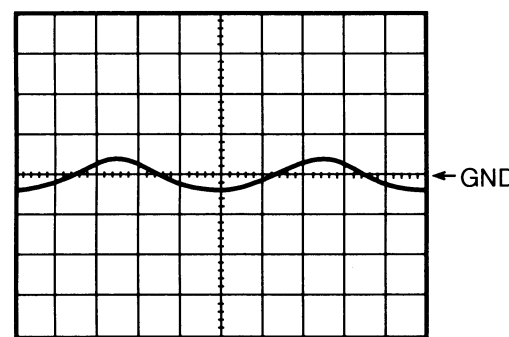
WFi 1DIV: 2V 10μsec



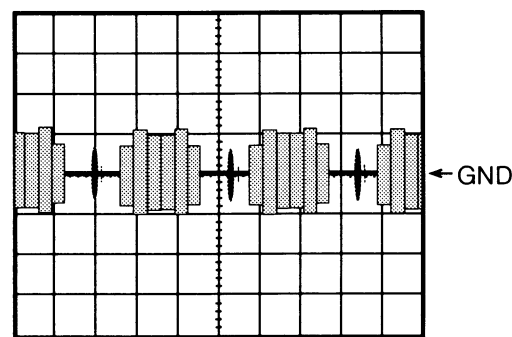
WFn 1DIV: 0.5V 5msec



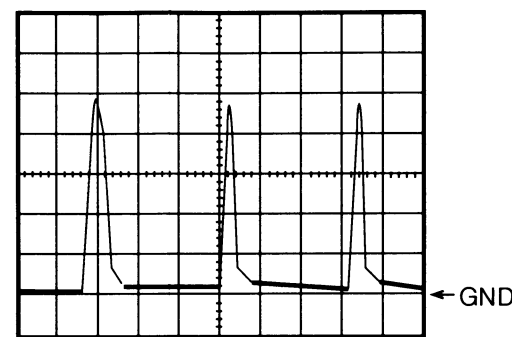
WFq 1DIV: 1V 10μsec



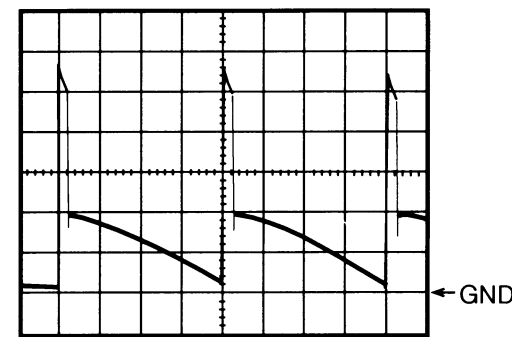
Wfb 1DIV: 1V 200μsec
Set volume maximum



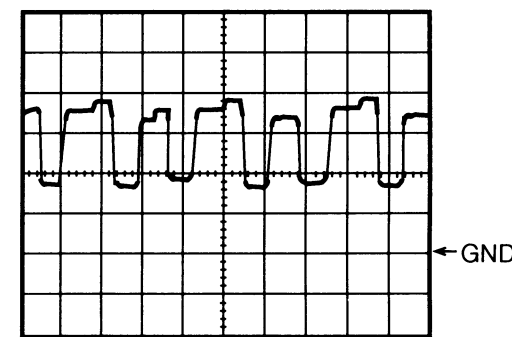
WFf 1DIV: 0.2V 10μsec



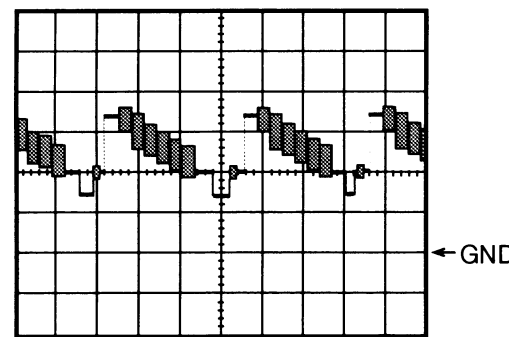
WFj 1DIV: 250V 10μsec



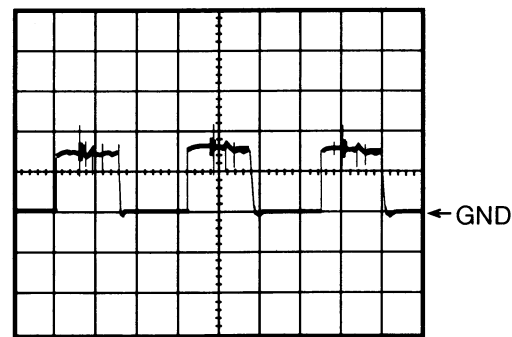
WFn 1DIV: 10V 2msec



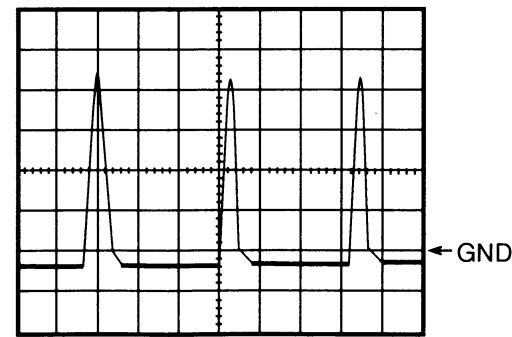
WFr 1DIV: 50V 10μsec



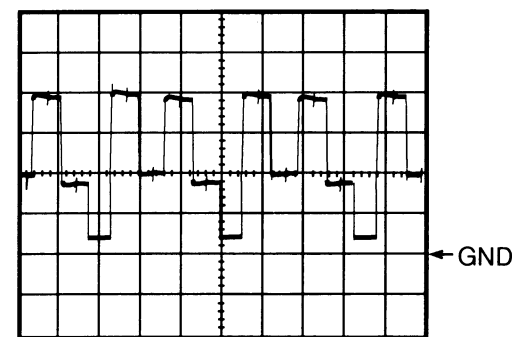
WFc 1DIV: 1V 10μsec



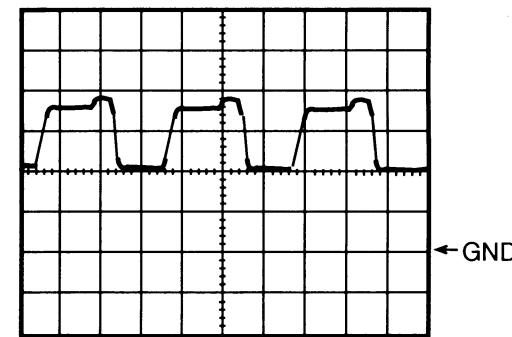
WFg 1DIV: 0.5V 10μsec



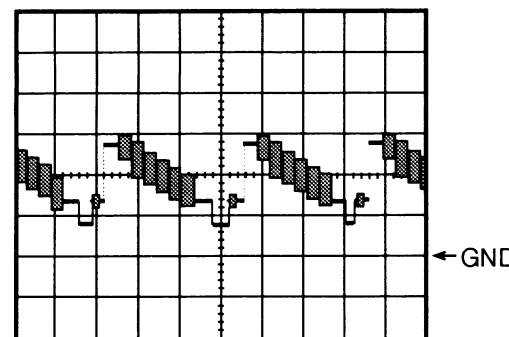
WFk 1DIV: 5V 10μsec



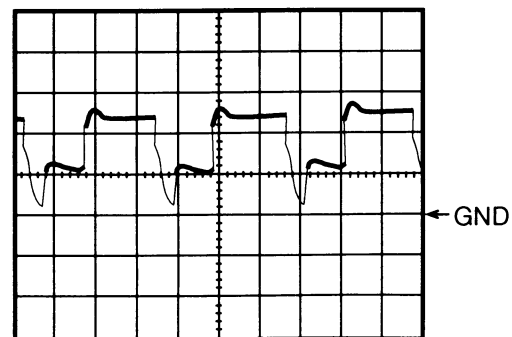
Wfo 1DIV: 1V 10μsec



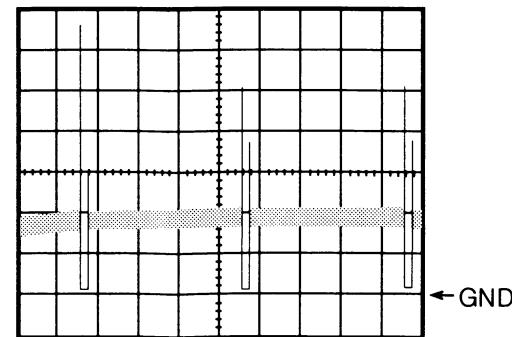
Wfs 1DIV: 50V 10μsec



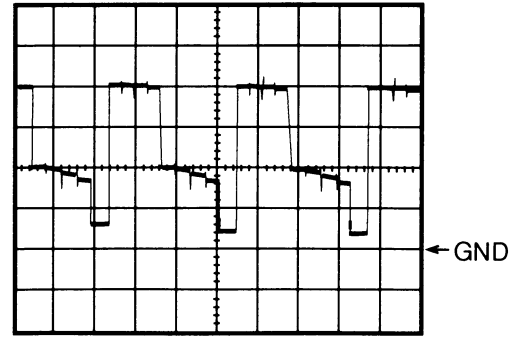
Wfd 1DIV: 1V 10μsec



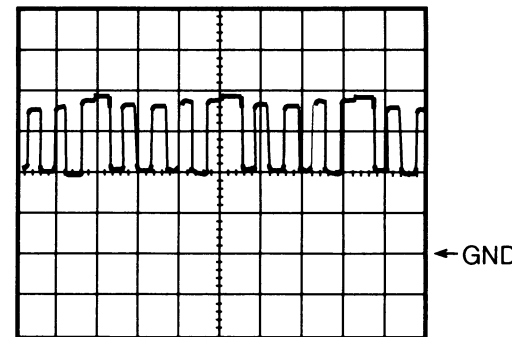
WFh 1DIV: 50V 10μsec



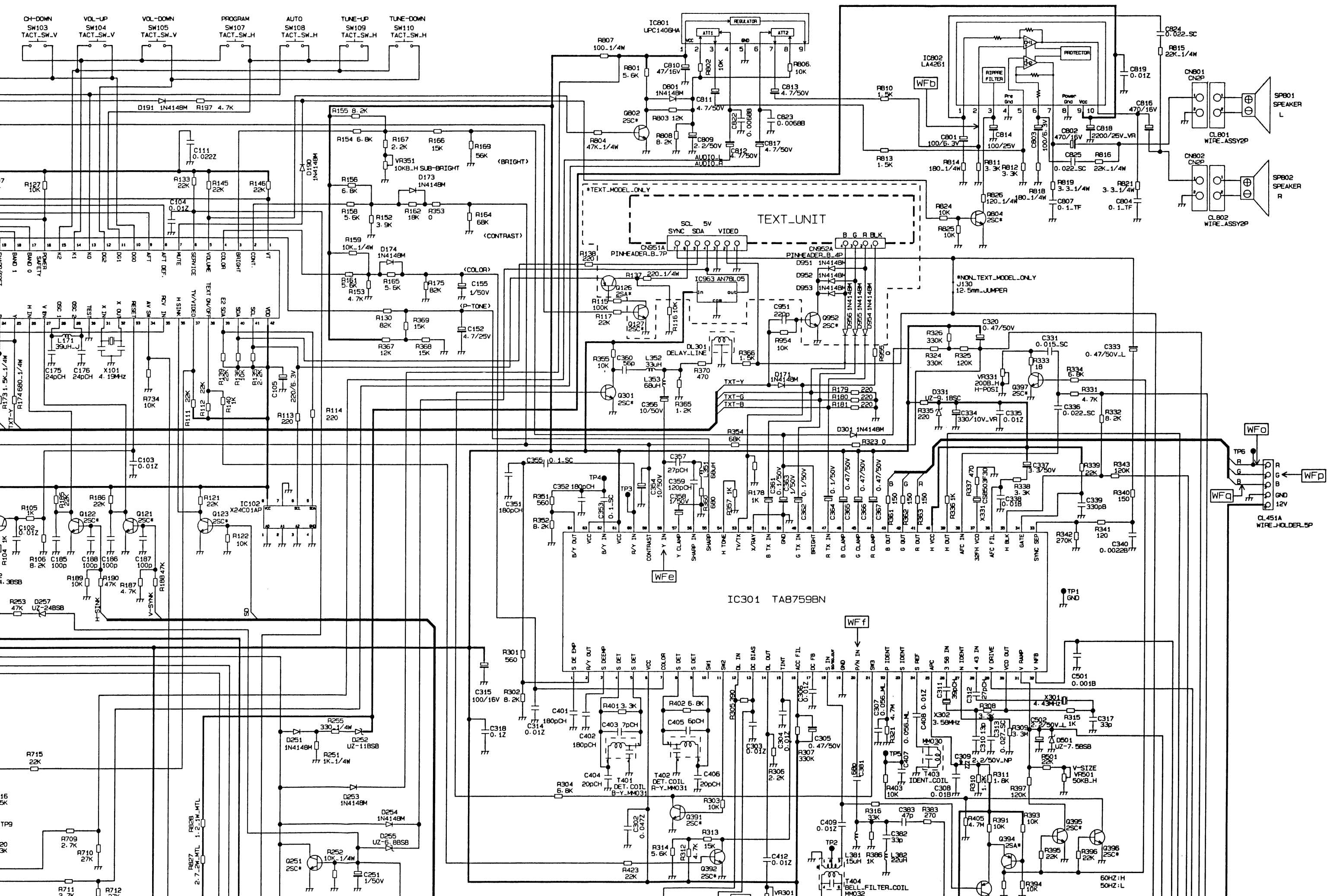
Wfi 1DIV: 0.5V 5msec



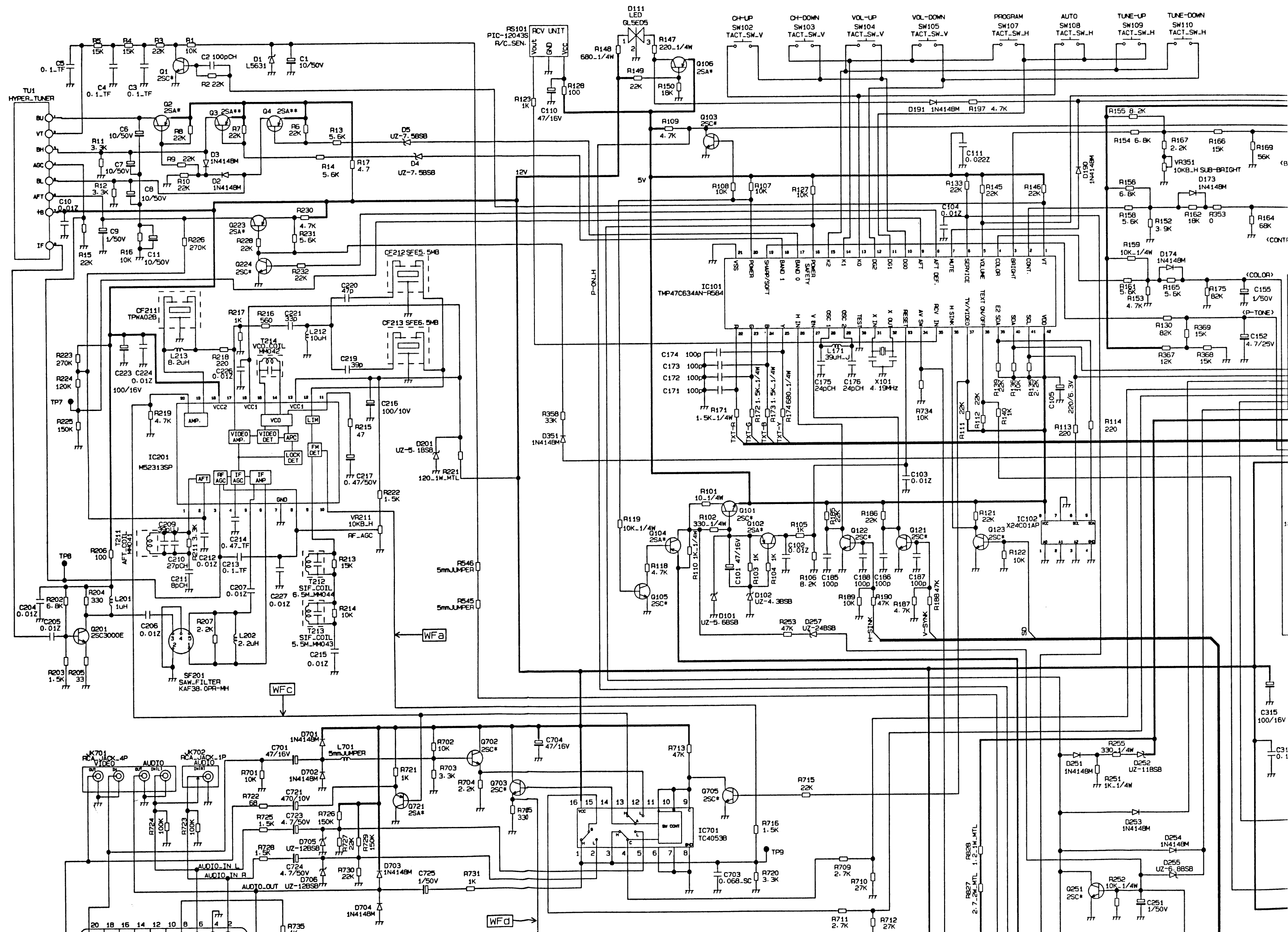
Wfp 1DIV: 1V 10μsec

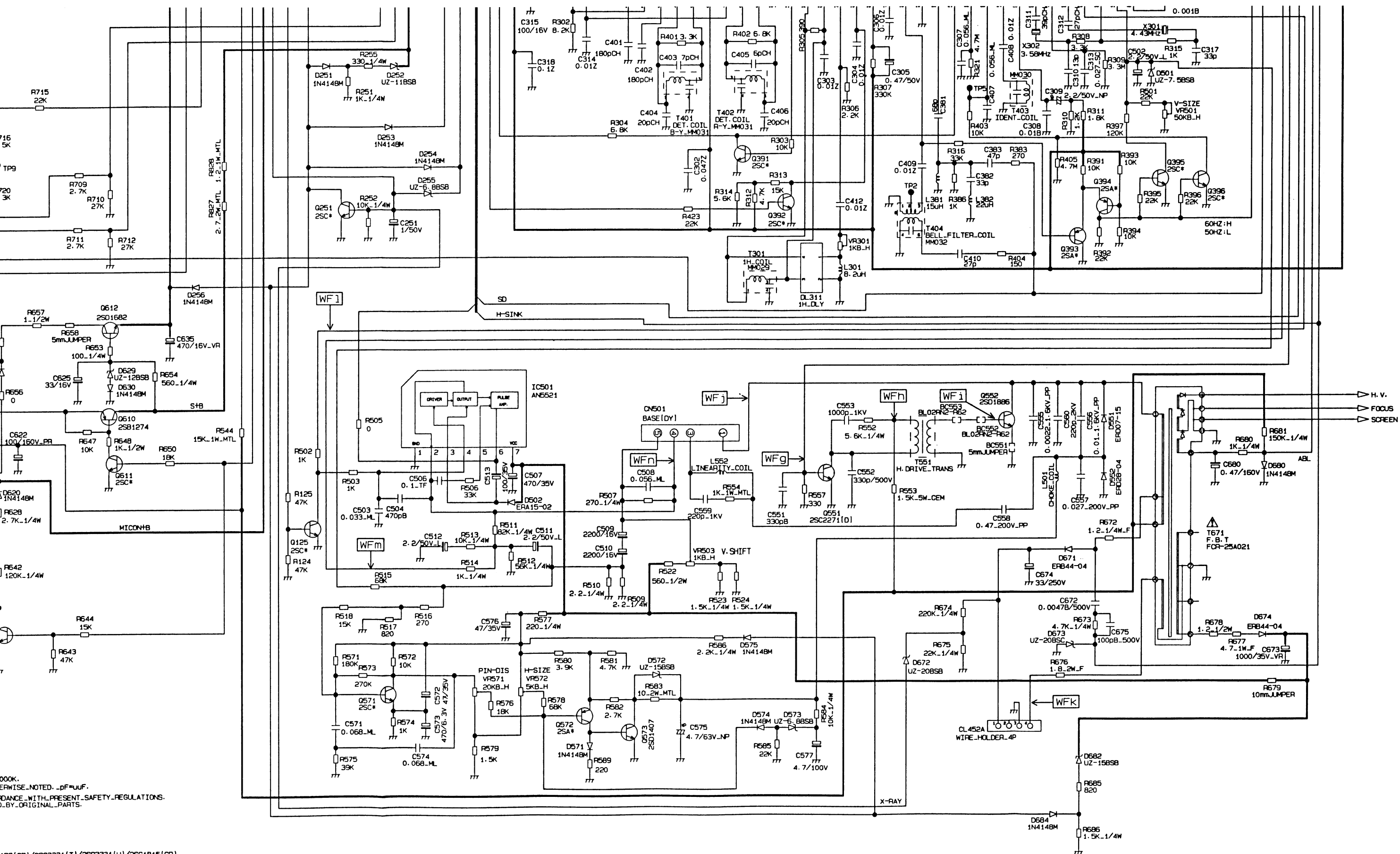


Wft 1DIV: 50V 10μsec



D





D

C

B

A

