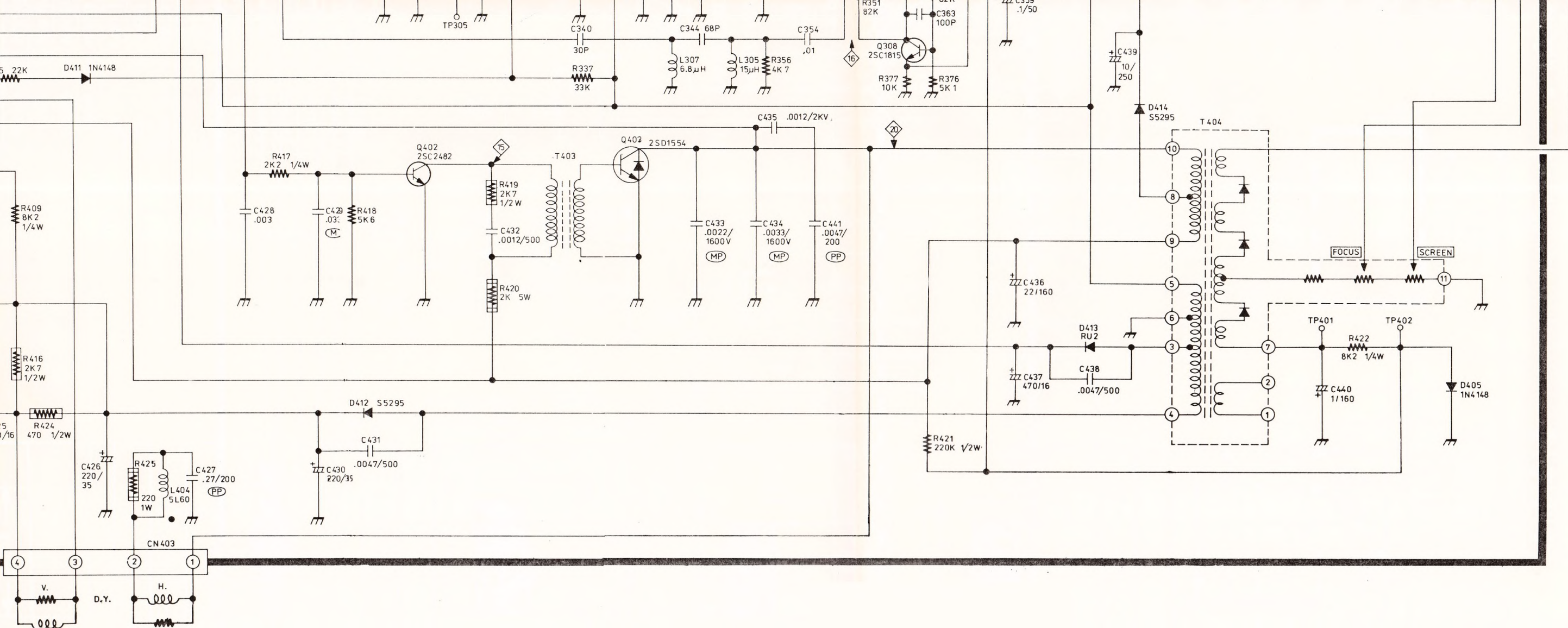




PICTORIAL VIEW OF TUNER:

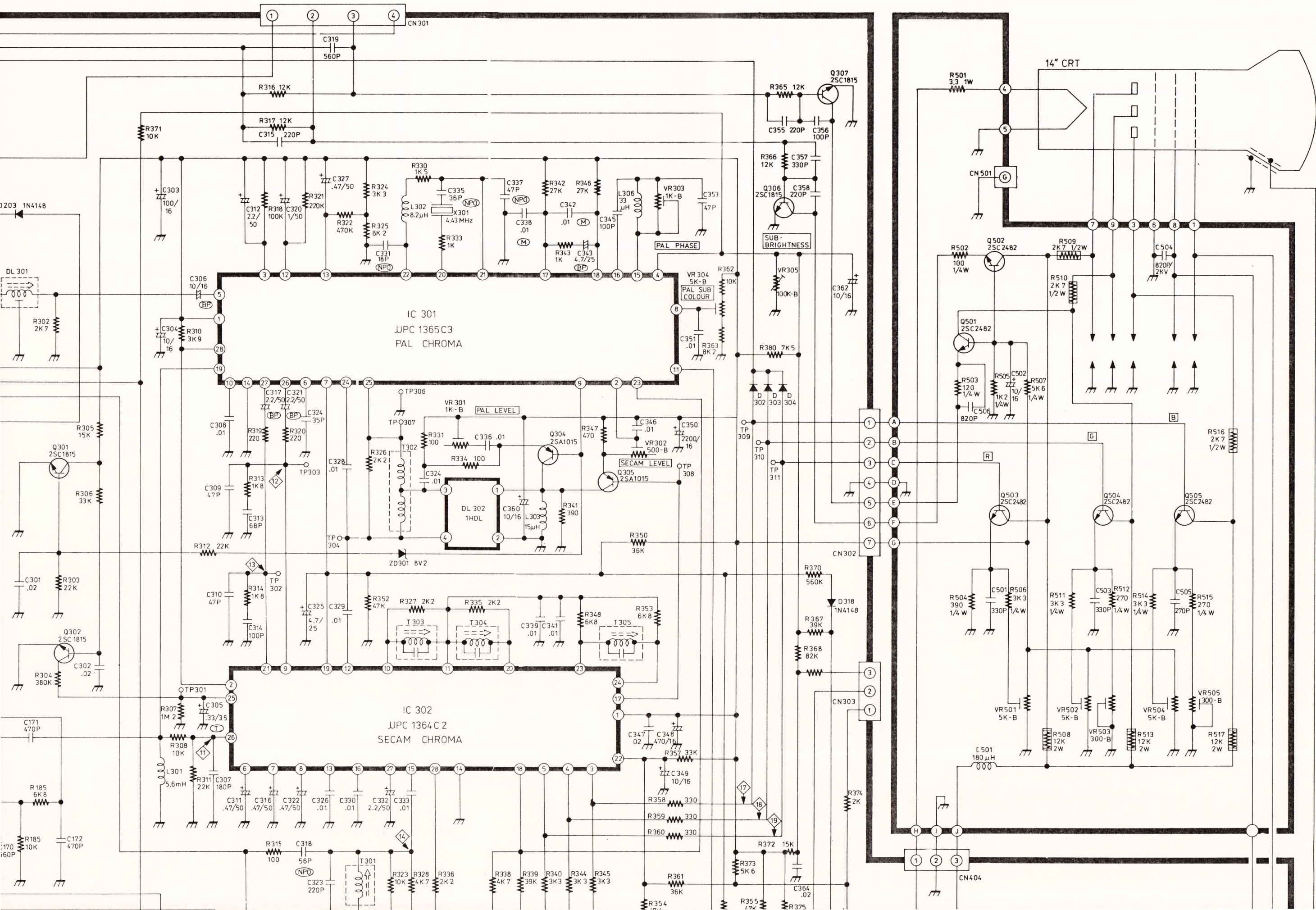
5K		AN 5265
OF		2SC 2482
8A		2SC 1815
		2SA 1015
		2SB 774T

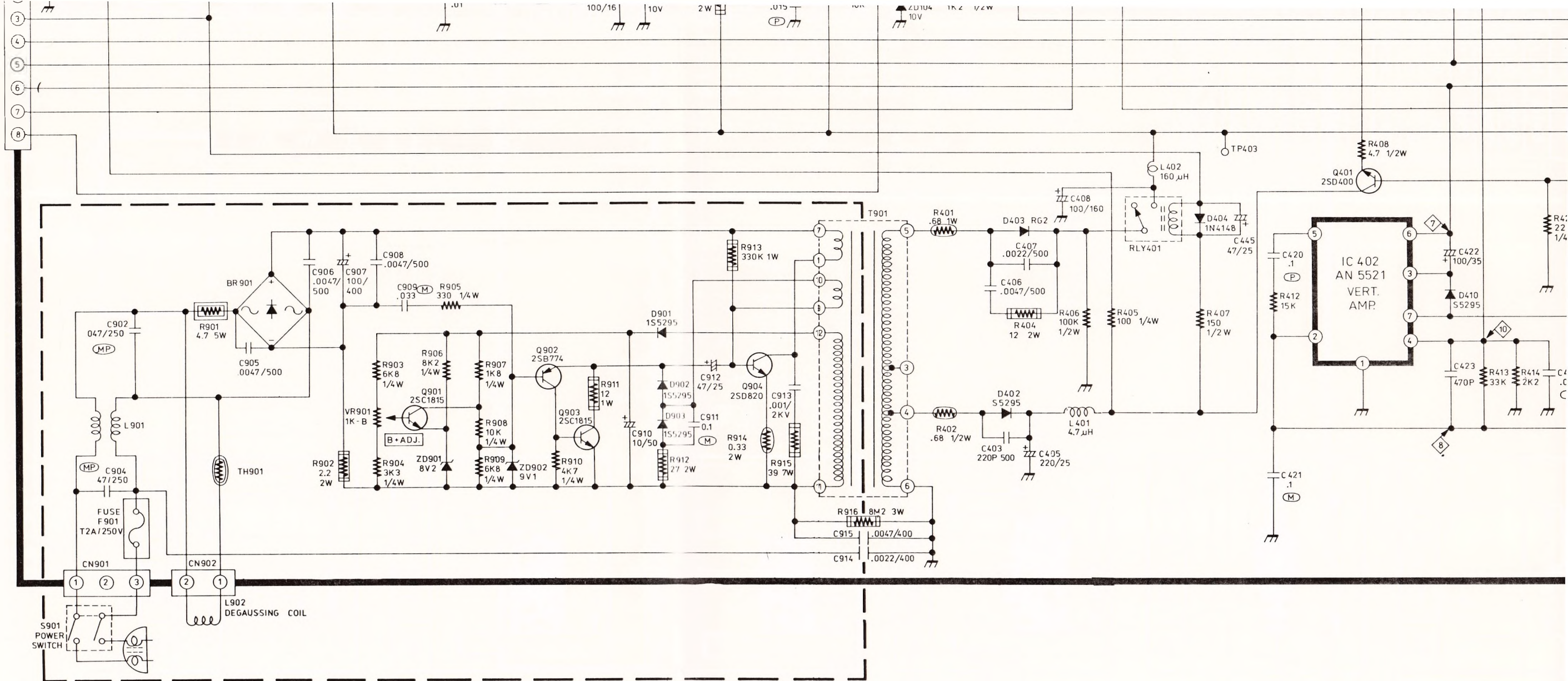
Terminal NO 1 2 3 4 5 6 7 8 9
Terminal name BU VT BH AGC BL AFT BM IF V/U ANT

IFT TUNING ADJUST

Term.	ch	VHF LO	VHF HI	UHF
7	BM	12	12	12
5	BL	12	Open	12
3	BH	Open	12	Open
1	BU	Open	Open	12

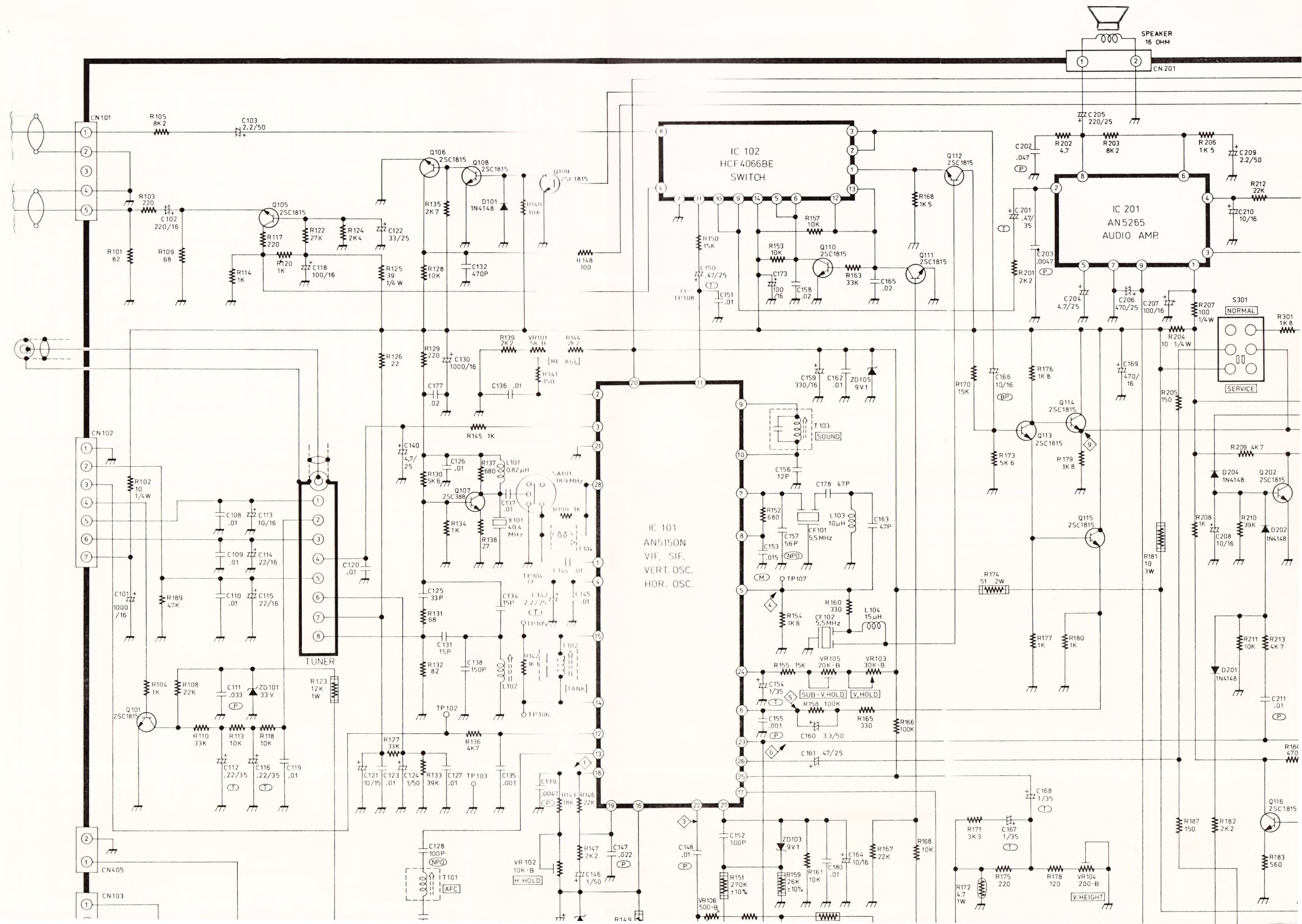
ice TV 1045/2

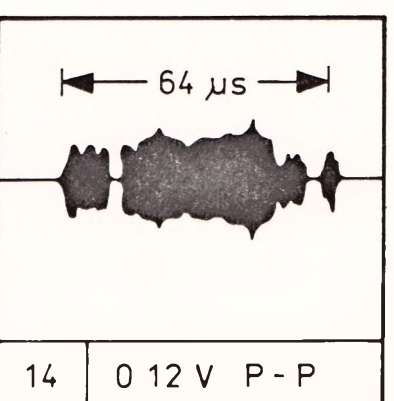
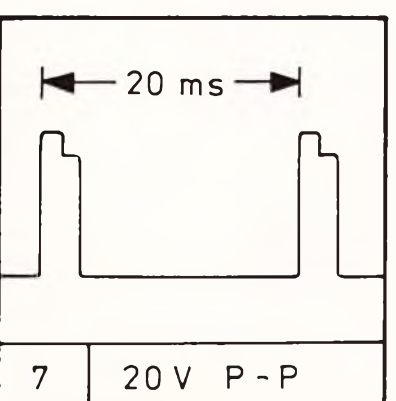
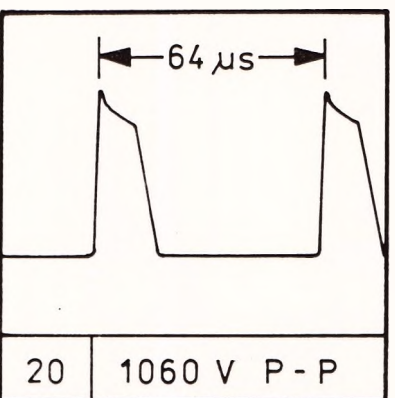
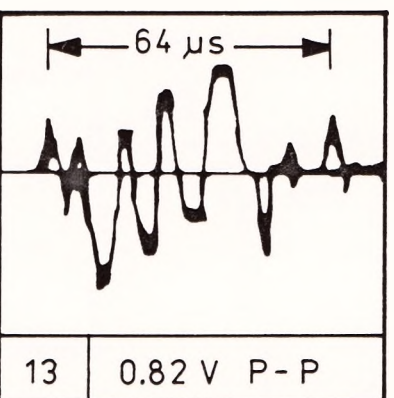
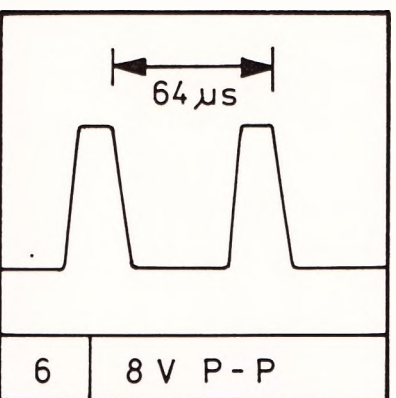
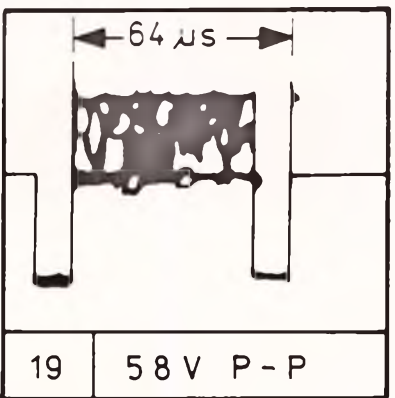
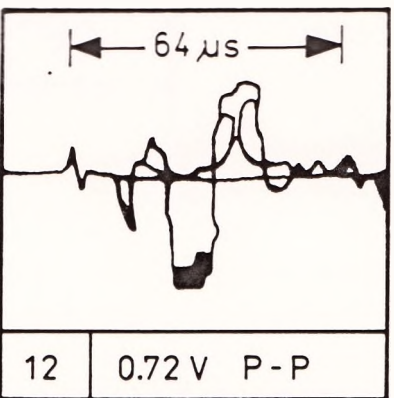
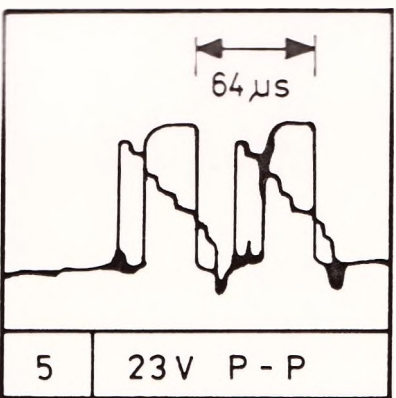
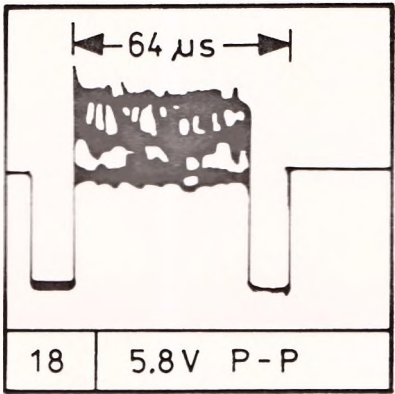
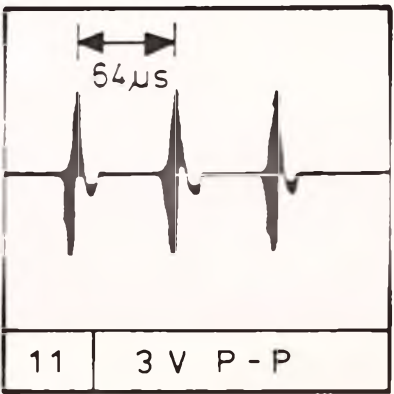
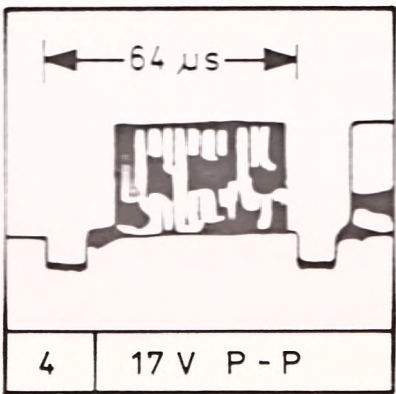
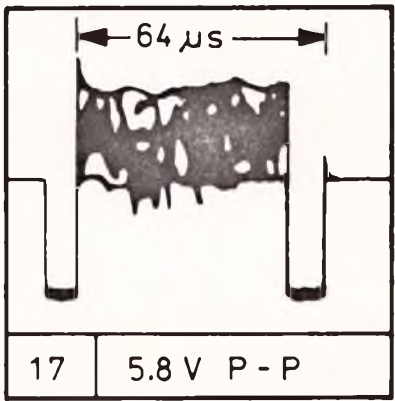
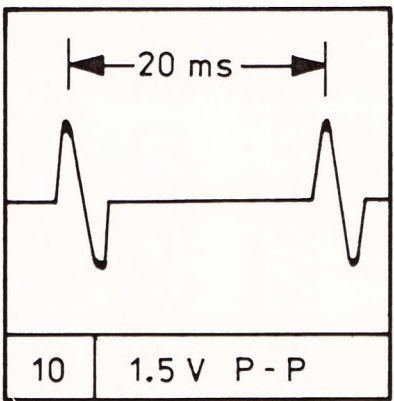
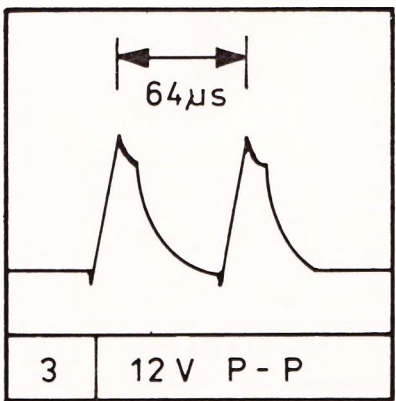
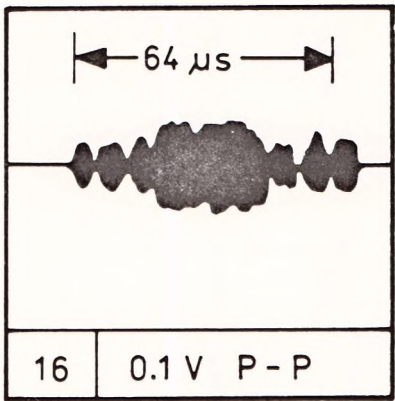
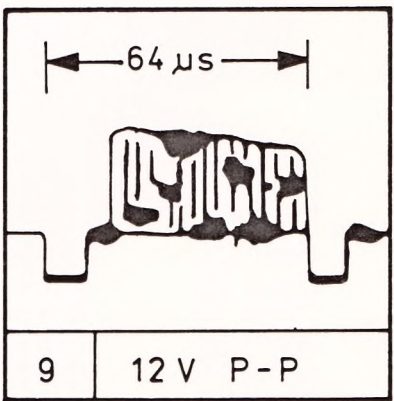
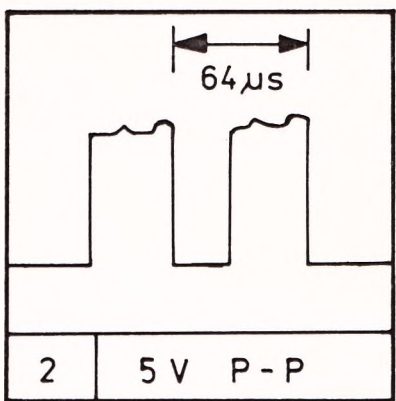
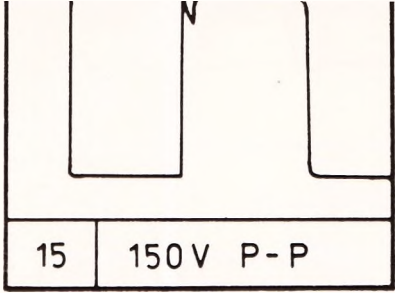
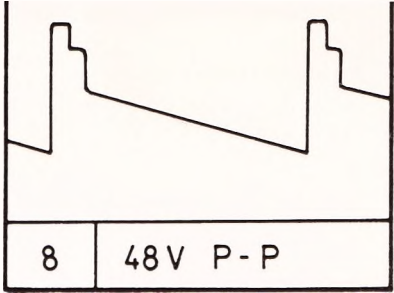
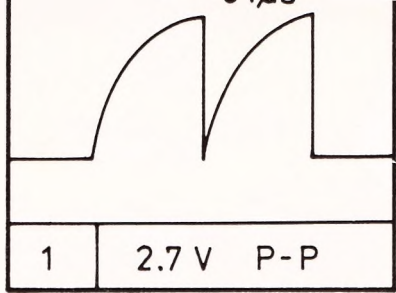




TRANSISTOR AND IC IDENTIFY:

	MN 15245		AN 5150N UPC 1364C2 UPC 1365C3		MN 1220		HCF 4066		AN 50
	AN 5521		2SD 820		2SD 1427		2SC 2068		2SD 2SC





1N4148	Si, FAST S
1S1555	Si, GEN. PU
1S5295	Si, GEN. PU
S5295	≡ 1S5295
RG2	Si, FAST R
RU2	≡ 1S5295
ZD39+33V	ZENER DIO
2 SA1015	Si, PNP, U
2 SB774	Si, PNP, U
2 SC1815	Si, NPN, N
2 SC2482	Si, NPN, N
2 SD400F	Si, NPN, U
2 SD820	Si, NPN, T
2SD1554	Si, NPN, T

NOTE

- (1) ALL CAPACITORS ARE 0.01 μF UNLESS NOTED.
- (2) CAPACITOR VALUES ARE IN μF UNLESS NOTED.
- (3) ALL RESISTOR VALUES ARE IN Ω UNLESS NOTED.
- (4) RESISTOR VALUES ARE IN Ω UNLESS NOTED.
- (5) DC VOLTAGE IS MEASURED ACROSS THE CIRCUIT.
- (6) WAVEFORMS ARE MEASURED AT A NORMAL POINT.
- (7) THIS CIRCUIT IS A PRIOR NO.

DESCRIPTION, DATA	EQUIVALENTS
SWITCH, 0.2A, 100 V, 4 ns;	BAY61
PURPOSE; FAST SWITCH; DET; 0.16 A; 200 V; 50 ns;	
RECOVERY; FAST RECOVERY; 1 A; 600 V; 200 ns;	
RECOVERY; GEN. PURP. RECT.; 3 A; 600 V; 250 ns;	
DE; 3.9-33 V; 1 W ($\frac{1}{2}$ W); 5 %;	
TRANSISTORS	
1; 50 V; 0.15 A; 0.4 W;	BC177; BC307
1; 30 V; 0.1 A; 0.25 W;	BC308; BC558
1-ra; 60 V; 0.15 A; 0.4 W; Kompl. 2 SA1015	BC414
1/S-L; 300 V; 0.1 A; 0.9 W;	BF299
1; 25 V; 1 A; 0.75 W;	BC338
1-HA; 1500 V; 3.5 A; 50 W;	BU208; BU308; BU500
1-HA; 5 A; 1500 V; with Damper Diode; 120 W;	

RESISTORS ARE IN μ F UNLESS OTHERWISE NOTED.
RESISTORS ARE 50 UNLESS OTHERWISE NOTED.

RESISTORS NOT SPECIFICALLY DESIGNATED ARE CERAMIC
RESISTORS.

- ELECTROLYTIC CAPACITOR
- BI-POLAR ELECTROLYTIC CAPACITOR
- TANTALUM CAPACITOR
- METALLIZED POLYESTER
- POLYESTER FILM CAPACITOR
- POLYPROPYLENE CAPACITOR
- MYLAR CAPACITOR

RESISTORS ARE IN OHM 1/16 WATT UNLESS OTHERWISE

RESISTORS NOT SPECIFICALLY DESIGNATED ARE CARBON
RESISTORS.

-  NONFLAMMBLE RESISTOR
-  FUSEBLE RESISTOR
-  CEMENT RESISTOR
-  METAL OXIDE RESISTOR
-  THERMISTOR

VOLTAGES ARE MEASURED FROM POINTS INDICATED TO
POINT GROUND WITH A DIGITAL MULTIMETER TEST.

VOLTAGES ARE TAKEN WITH SETTING CONTROLS TO

TEST CONDITIONS (COLOR BAR PATTERN).

TEST DIAGRAM IS SUBJECT TO CHANGE WITHOUT
NOTICE.

Q107	0.2	12.8	GND	Q402	0.2	116	GND
Q104	0.1	3.5	GND	Q403	0.2	112	1.8
Q105	0.8	2.9	0.1	Q501	2	112	1.9
Q106	0	12.8	0	Q502	2	114	2.3
Q107	5.9	11.5	5.1	Q503	2.7	112	2.7
Q108	0.6	0	0	Q504	3	109	2.5
Q109	0	0.6	0	Q505	2.9	0.04	4.7
Q110	0.6	0	GND	Q603	4.7	0.04	0.03
Q111	0	9.9	GND	Q604	0.08	4.3	0.36
Q112	2.9	12.8	2.3	Q605	-0.09	4.2	0.03
Q113	3.3	7.7	2.7	Q606	-0.06	4.3	0.03
Q114	7.7	12.8	7	Q607	12.5	0	12.5
Q115	2.7	12.8	2.11	Q608	11.8	12.4	0
Q116	0.2	11.0	0	Q611	0.7	0.1	0.2
Q201	3.1	11.6	4.6	Q612	0.15	3.2	0.3
Q202	0	7.9	0	Q615	0.09	8.8	0.03
Q301	0.5	0	GND	Q901	8.7	12.1	8
Q302	0	7.8	GND	Q902	5.3	0	1.9
Q303	0	8.6	0.1	Q903	0	1.1	0
Q304	10.9	0	11.5	Q904	-2.4	261	0
Q305	8.2	0	8.9				
Q306	0	3	0				
Q307	0	3	GND				
Q401	16.6	16.6	15.8				

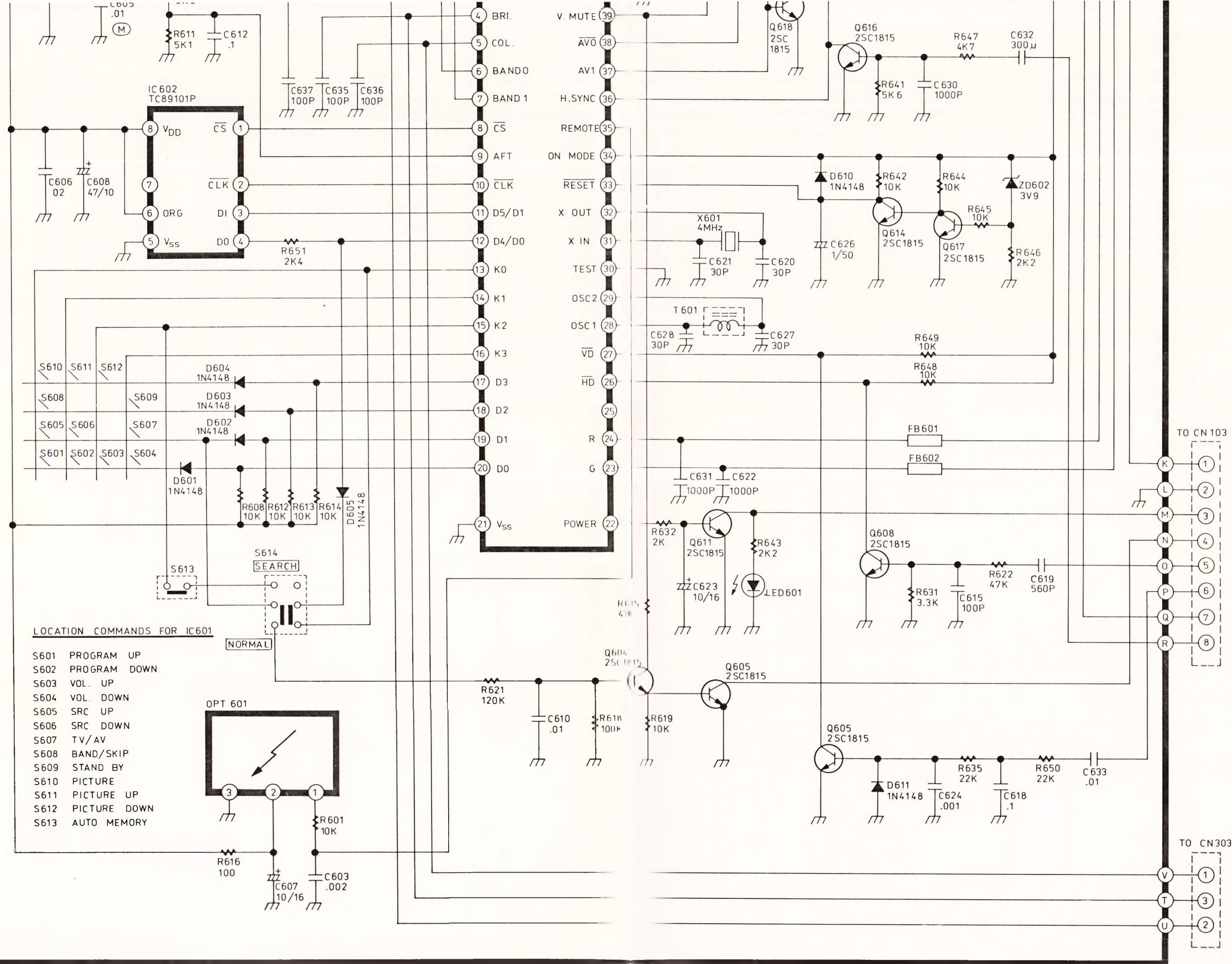
NOTE : Voltage are taken under tuned condition with
CONTRAST : Maximum Position
BRIGHTNESS : Center Position
COLOR : Center Position
SIGNAL INPUT : 80 dBuV
CHANNEL SETTING : The Last Channel of VHF High

VOLTAGE TABLE FOR IC					
SYMBOL PIN NO.	IC 101 (V)	IC 102 (V)	IC 201 (V)	IC 301 (V)	IC 302 (V)
1	4.82	0	10.0	11.20	11.20
2	5.32	2.82	4.5	11.00	9.48
3	4.36	2.82	0	8.54	2.86
4	4.59	3.97	9.1	8.54	2.80
5	3.45	0.01	7.1	2.27	2.90
6	6.81	0.01	7.4	1.60	1.50
7	3.10	GND	GND	6.17	1.10
8	3.10	1.04	7.5	5.38	1.52
9	4.80	1.55	15.6	8.80	9.08
10	4.80	1.55		1.91	2.28
11	2.44	1.35		1.20	2.28
12	7.52	9.72		8.73	2.27
13	3.65	9.72		5.68	2.27
14	6.59	12.40		GND	GND
15	6.59			7.30	2.27
16	9.51			4.20	2.28
17	2.07			8.45	10.40
18	5.34			8.45	0.10
19	5.33			0	6.17
20	9.68			9.14	6.17
21	NC			NC	NC
22	3.20			3.20	5.43
23	0.83			0.10	2.28
24	4.65			2.69	2.28
25	0.60			2.69	5.94
26	4.04			3.72	0
27	0.18			3.71	11.20
28	4.82			9.48	0.36

NOTE : VOLTAGE ARE TAKEN UNDER TUNED CONDITION WITH
CONTRAST : MAXIMUM POSITION
BRIGHTNESS : CENTER POSITION
COLOR : CENTER POSITION
SIGNAL INPUT : 80 dBuV
CHANNEL SETTING : THE LAST CHANNEL OF VHF HIGH

VOLTAGE TABLE FOR IC				
SYMBOL PIN NO.	IC 402 (V)	IC 601 (V)	IC 602 (V)	IC 603 (V)
1	GND	0.05	2.12	GND
2	12.00	GND	4.68	2.32
3	26.40	0.05	0.06	4.08
4	0.73	0.01	NC	4.46
5	0.25	0.01	GND	4.62
6	1.04	4.70	GND	4.59
7	26.00	2.14	2.14	3.78
8		-31.70	2.15	4.69
9		-7.26	1.35	4.51
10		0		4.61
11		-0		4.61
12		-0		4.61
13		-0		4.61
14		0.05		4.59
15		0.05		4.59
16				0.14
17				0.05
18				0.05
19				0.05
20				0.05
21				0.05
22				0.03
23				0
24				0
25				0
26				NC
27				NC
28				NC
29				0.14
30				NC
31				NC
32				NC
33				NC
34				0.75
35				2.65
36				1.43
37				12.00
38				0.15
39				12.00
40				2.23
41				2.23
42				4.64

NOTE : Voltage are taken under tuned condition with
CONTRAST : Maximum Position
BRIGHTNESS : Center Position
COLOR : Center Position
SIGNAL INPUT : 80 dBuV
CHANNEL SETTING : The Last Channel of VHF High

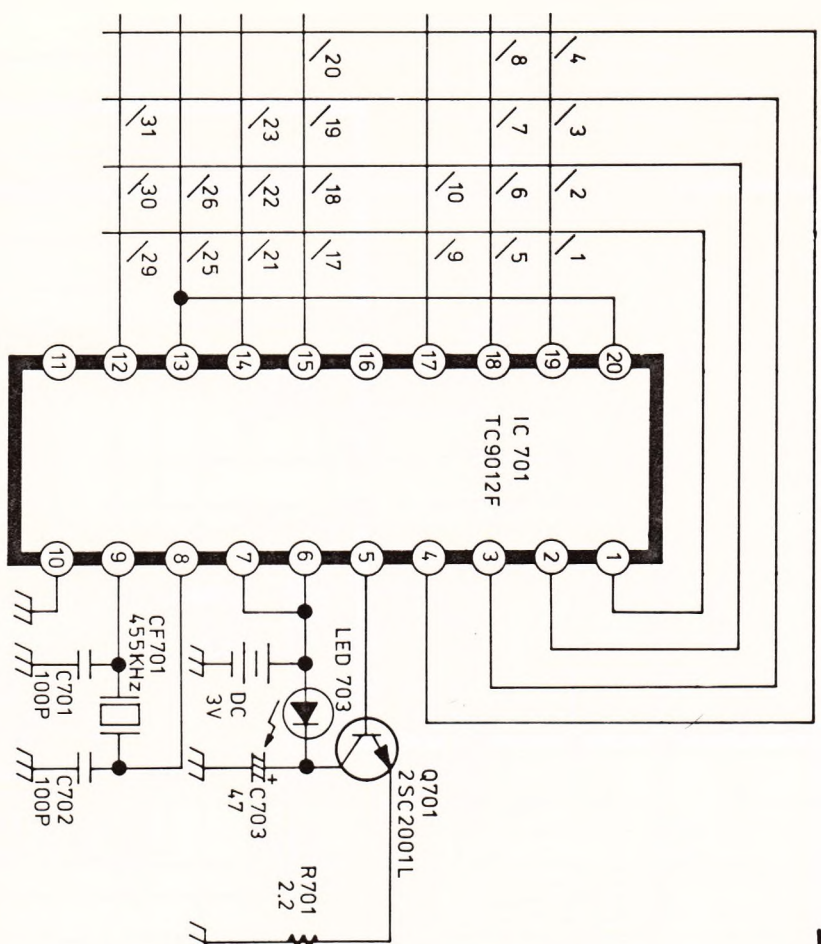


LIS

$64 \mu s$

$20 ms$

$20 ms$



- | LOCATION | COMMAND |
|----------|--------------|
| 1. | 1 |
| 2. | 2 |
| 3. | 3 |
| 4. | 4 |
| 5. | 5 |
| 6. | 6 |
| 7. | 7 |
| 8. | 8 |
| 9. | 9 |
| 10. | 0 |
| 11. | - |
| 12. | - |
| 13. | - |
| 14. | - |
| 15. | - |
| 16. | - |
| 17. | PROGRAM UP |
| 18. | PROGRAM DOWN |
| 19. | VOLUME UP |
| 20. | VOLUME DOWN |
| 21. | STAND BY |
| 22. | MUTE |
| 23. | TV/AV |
| 24. | - |
| 25. | SLEEP |
| 26. | RECALL |
| 27. | - |
| 28. | - |
| 29. | (+) |
| 30. | (-) |
| 31. | PICTURE |

