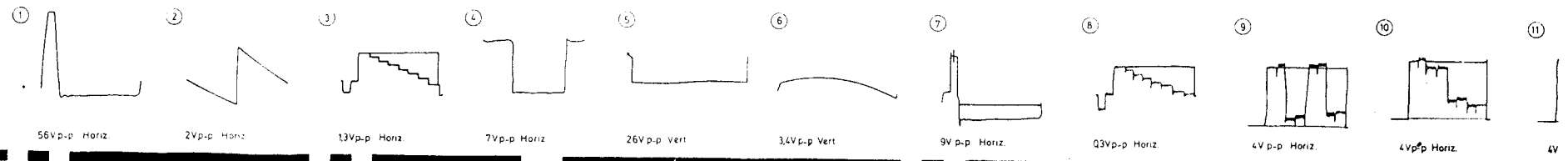
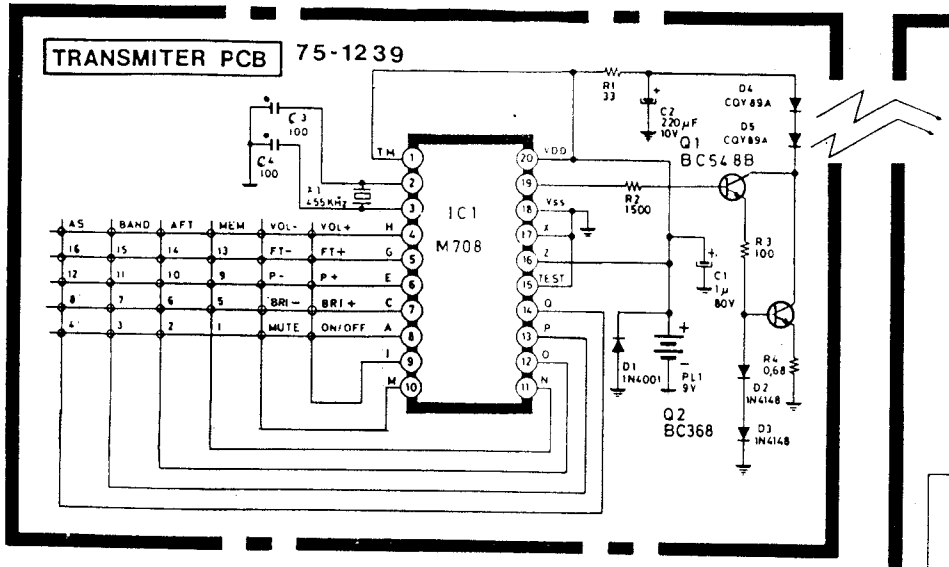
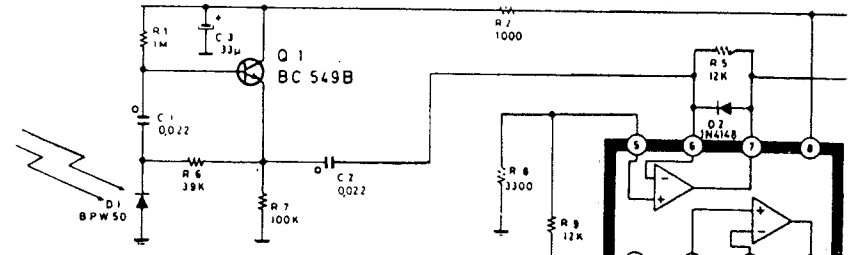
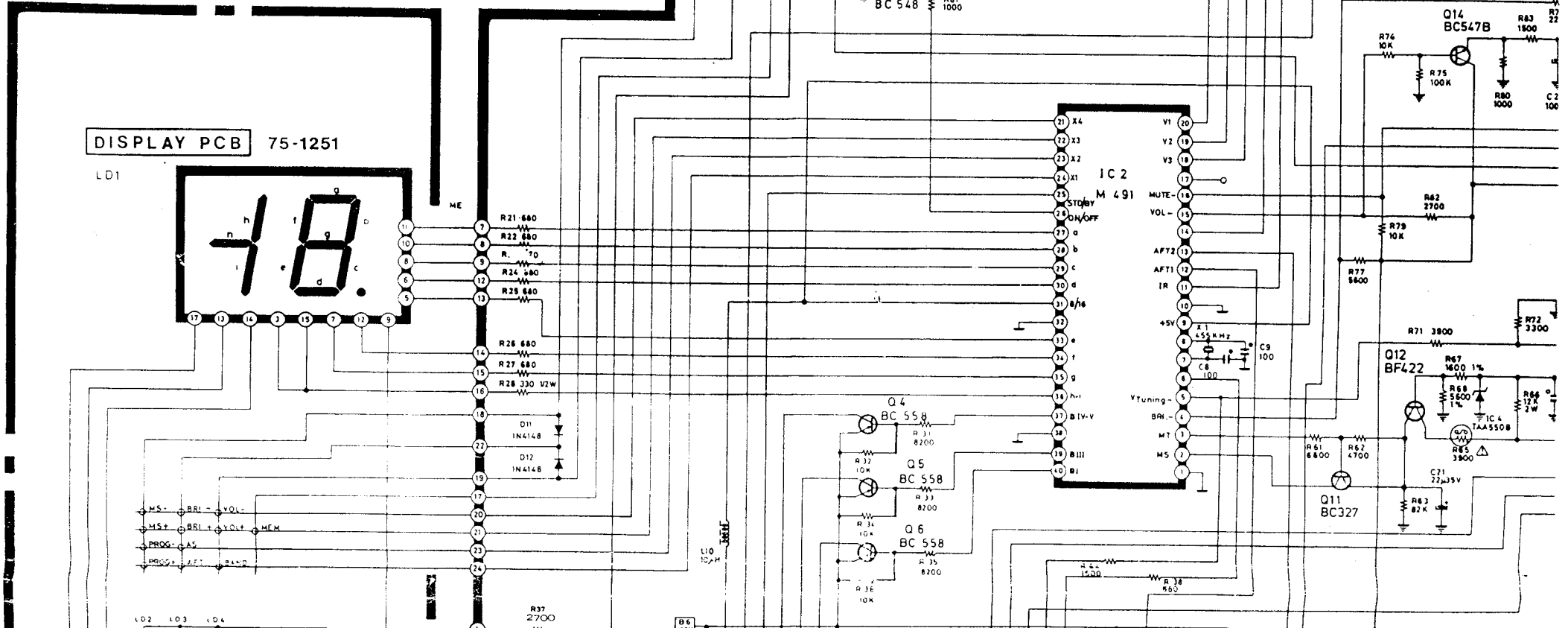


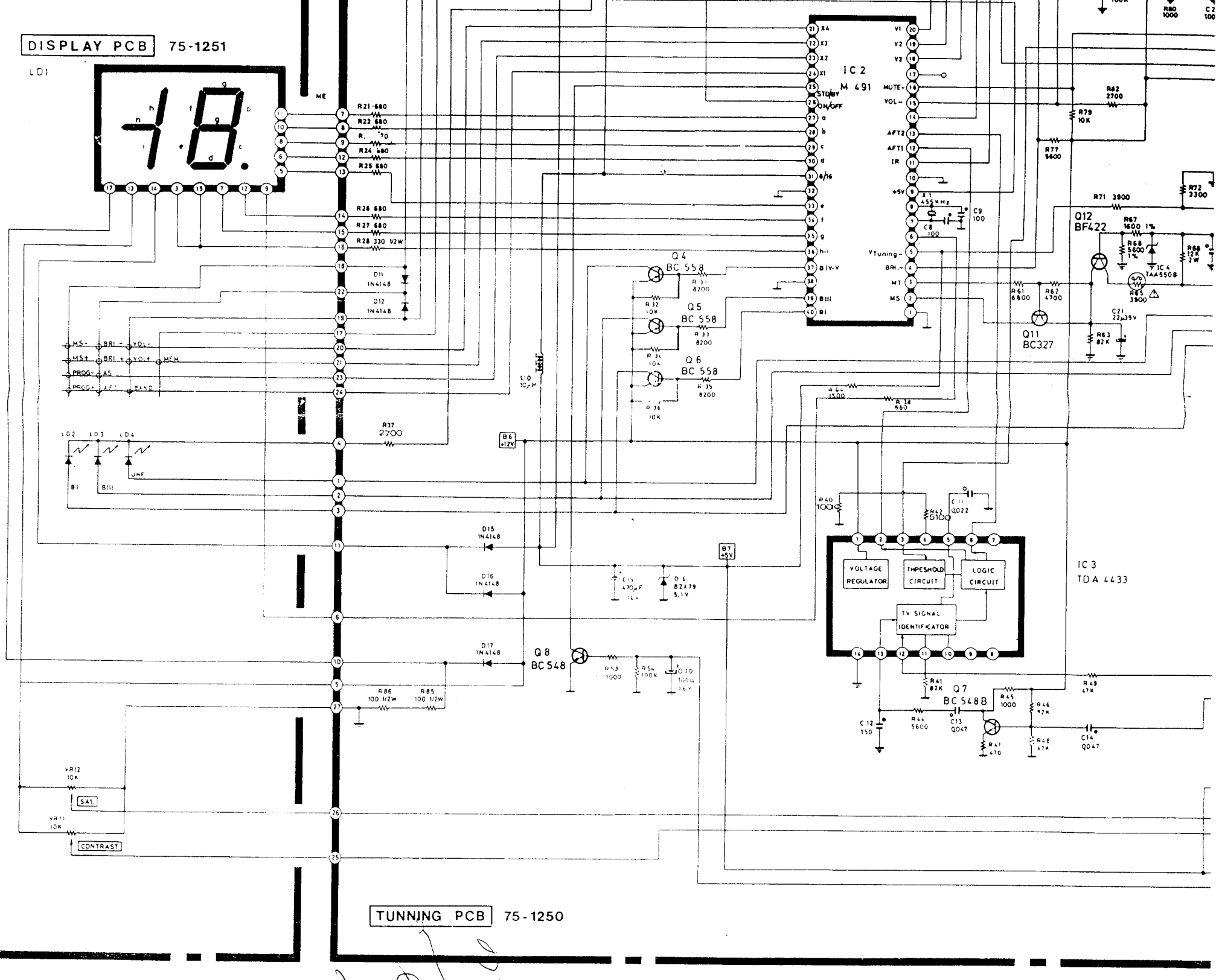
TRANSMITER PCB 75-1239

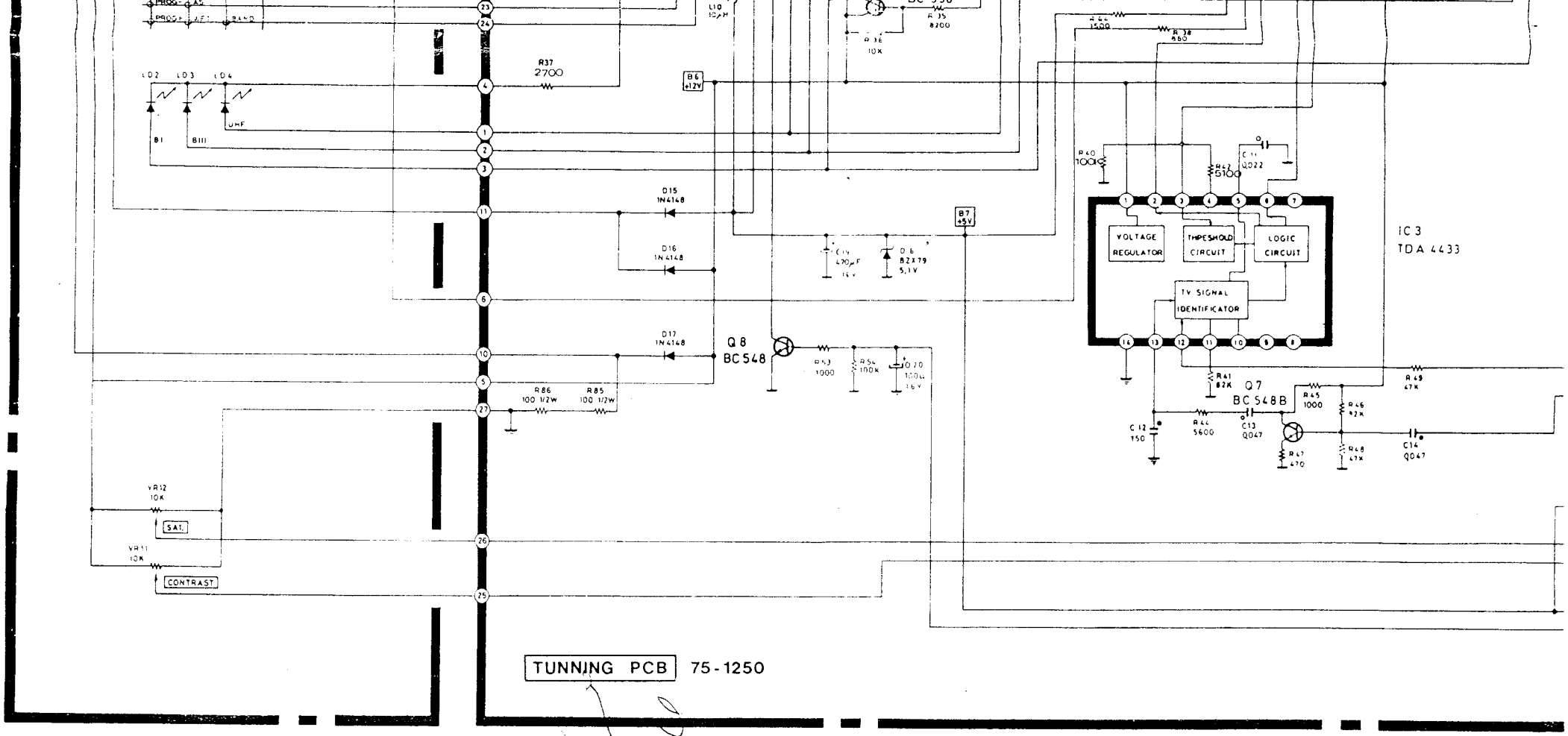




DISPLAY PCB 75-1251




DISPLAY PCB 75-1251
LD1
R21 680
R22 680
R24 680
R25 680
R26 680
R27 680
R28 330 1/2W
D11 1N4148
D12 1N4148
MS-
MS+
PROG-
PROG+
BRI -
BRI +
AS
AFT
VOL-
VOL+
MEM
BAND
LD2
LD3
LD4
UHF
BI
BIII
R37 2700
L10 10µH
B6 +12V
B7 +5V
D15 1N4148
D16 1N4148
D17 1N4148
C19 470µF 16V
D6 BZX79 5,1V
Q8 BC548
R43 1000
R86 100 1/2W
R85 100 1/2W
VR12 10K
SAT.
VR11 10K
CONTRAST
IC 2 M 491
X4
X3
X2
X1
STDBY
ON/OFF
a
b
c
d
e
f
g
h-i
BIII-V
BI
V1
V2
V3
MUTE-
VOL-
AFT2
AFT1
IR
+5V
X1 455 KHz
C9 100
C8 100
Vtuning-
BAR.-
MT
MS
Q4 BC 558
R31 8200
R32 10K
Q5 BC 558
R33 8200
R34 10K
Q6 BC 558
R35 8200
R36 10K
R38 560
R39 1500
R40 1000
R42 6100
C11 0022
IC 3 TDA 4433
VOLTAGE REGULATOR
THRESHOLD CIRCUIT
LOGIC CIRCUIT
TV SIGNAL IDENTIFICATOR
R41 82K
Q7 BC 548B
R44 5600
R45 1000
R46 47K
R47 470
R48 47K
R49 47K
C12 150
C13 0047
C14 0047
R79 10K
R82 2700
R77 5600
R71 3900
R72 3300
Q12 BF422
R67 1600 1%
R68 5600 1%
R64 12K 2W
IC 4 TAA5508
R65 3900
C21 22µ35V
R63 82K
Q11 BC327
R61 6800
R62 4700
R80 1000
C2 100
TUNNING PCB 75-1250



TUNNING PCB 75-1250

FISHER

COLOUR TELEVISION

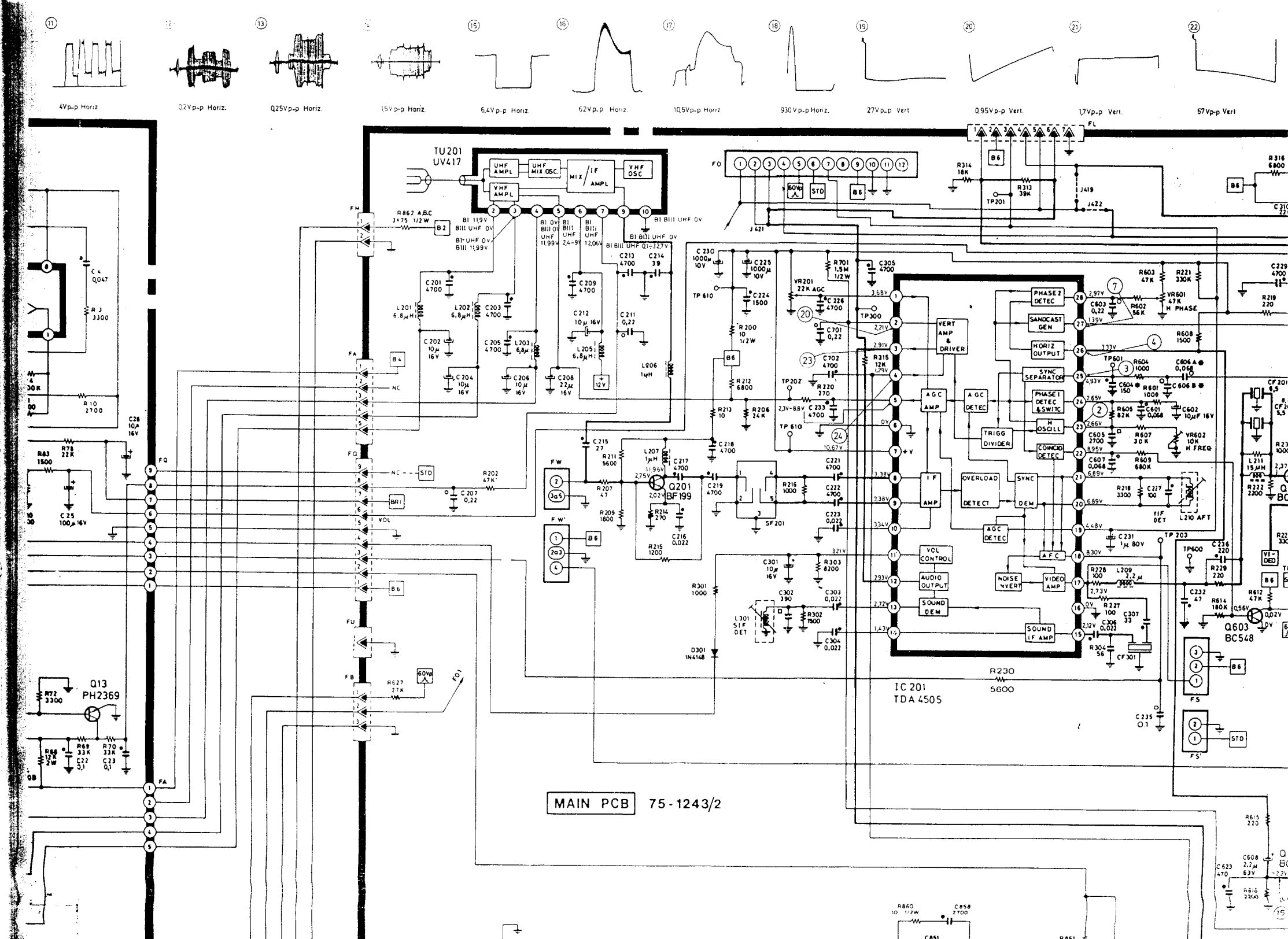
Model FTM 636
Model FTM 642
Model FTM 651
Chassis 057

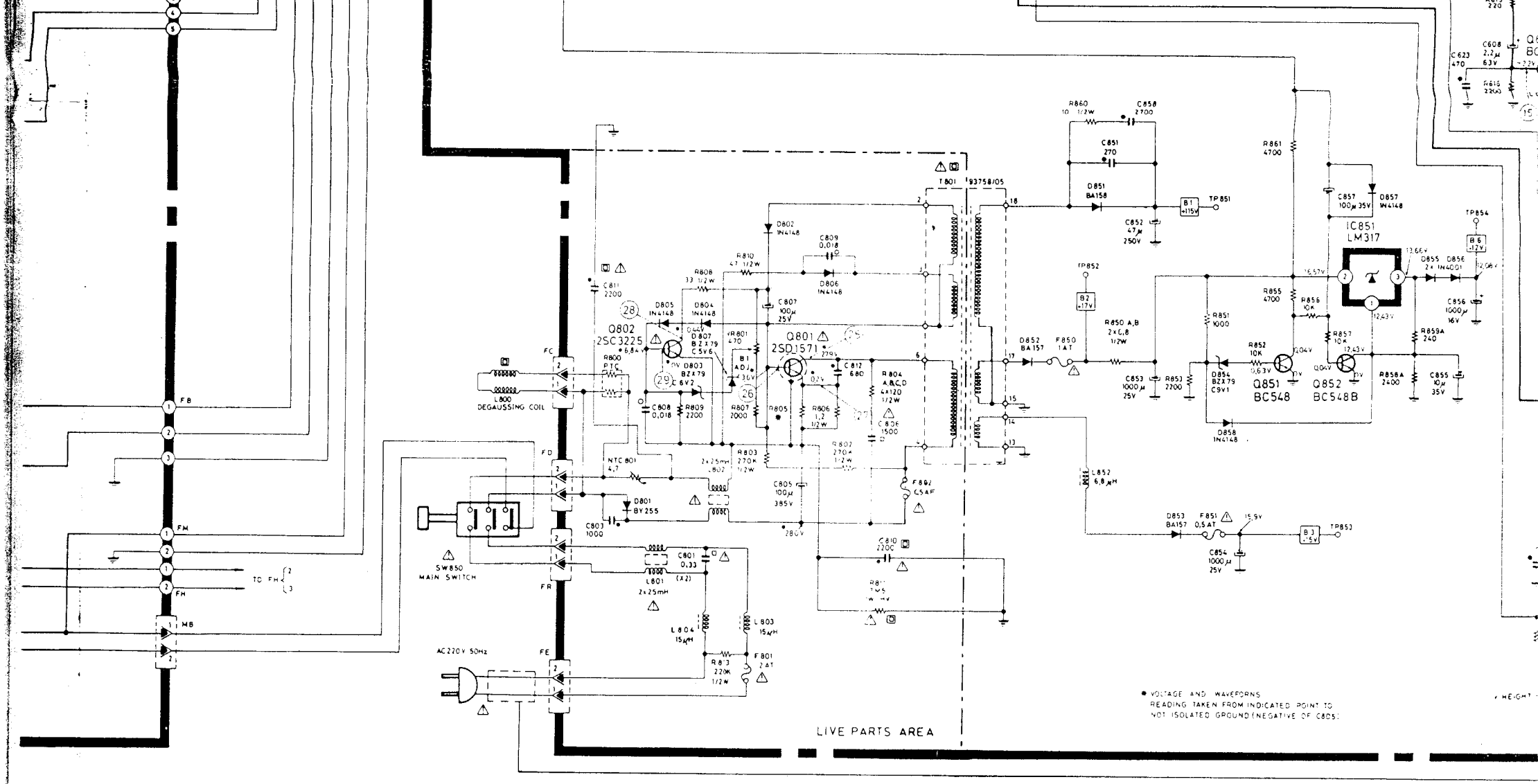
PRODUCT SAFETY NOTICE

Product safety should be considered when a component replacement is made in any area of a receiver. Components indicated by a mark ⚠ in this circuit diagram show components whose value have special significance to product safety. It is particularly recommended that only parts specified on the parts list of service manual be used for components replacement pointed out by the mark.

CIRCUIT DIAGRAM NOTES:

1. All resistance values in ohms K = 1,000 M = 1,000,000.
2. Unless otherwise noted in circuit diagram all capacitor values less than 1 are expressed in μF, and the values more than 1 are in pF.
3. Voltage reading taken with "VOM" from point indicated to chassis ground.
   Voltage reading taken using colour bar signal, all controls at normal. Some voltage may vary with signal strength.
4. Waveforms were taken with colour bar signal and controls adjusted for normal picture. Waveforms were taken using a wide band oscilloscope and low capacity probe.
5. All resistance values for transformers must be measured under unwired condition.
6. This circuit diagram covers basic or representative chassis only. There may be some component or partial circuit difference between actual chassis and circuit diagram.


11
4Vp-p Horiz.
12
0,2Vp-p Horiz.
13
0,25Vp-p Horiz.
14
1,5Vp-p Horiz.
15
6,4Vp-p Horiz.
16
62Vp-p Horiz.
17
10,5Vp-p Horiz
18
930Vp-p Horiz.
19
27Vp-p Vert
20
0,95Vp-p Vert.
21
1,7Vp-p Vert.
22
57Vp-p Vert
TU201
UV417
UHF AMPL
UHF MIX OSC.
MIX / IF AMPL
VHF OSC
VHF AMPL
IC 201
TDA 4505
PHASE 2 DETEC
SANDCAST GEN
HORIZ OUTPUT
SYNC SEPARATOR
PHASE1 DETEC &SWITC
H OSCILL
COINCID DETEC
VERT AMP & DRIVER
AGC AMP
AGC DETEC
TRIGG DIVIDER
IF AMP
OVERLOAD DETECT
SYNC DEM
VOL CONTROL
AUDIO OUTPUT
SOUND DEM
SOUND IF AMP
NOISE INVERT
VIDEO AMP
AFC
Q201 BF199
Q603 BC548
Q13 PH2369
L301 SIF DET
D301 1N4148
SF201
MAIN PCB 75-1243/2

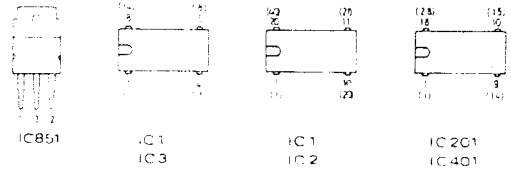


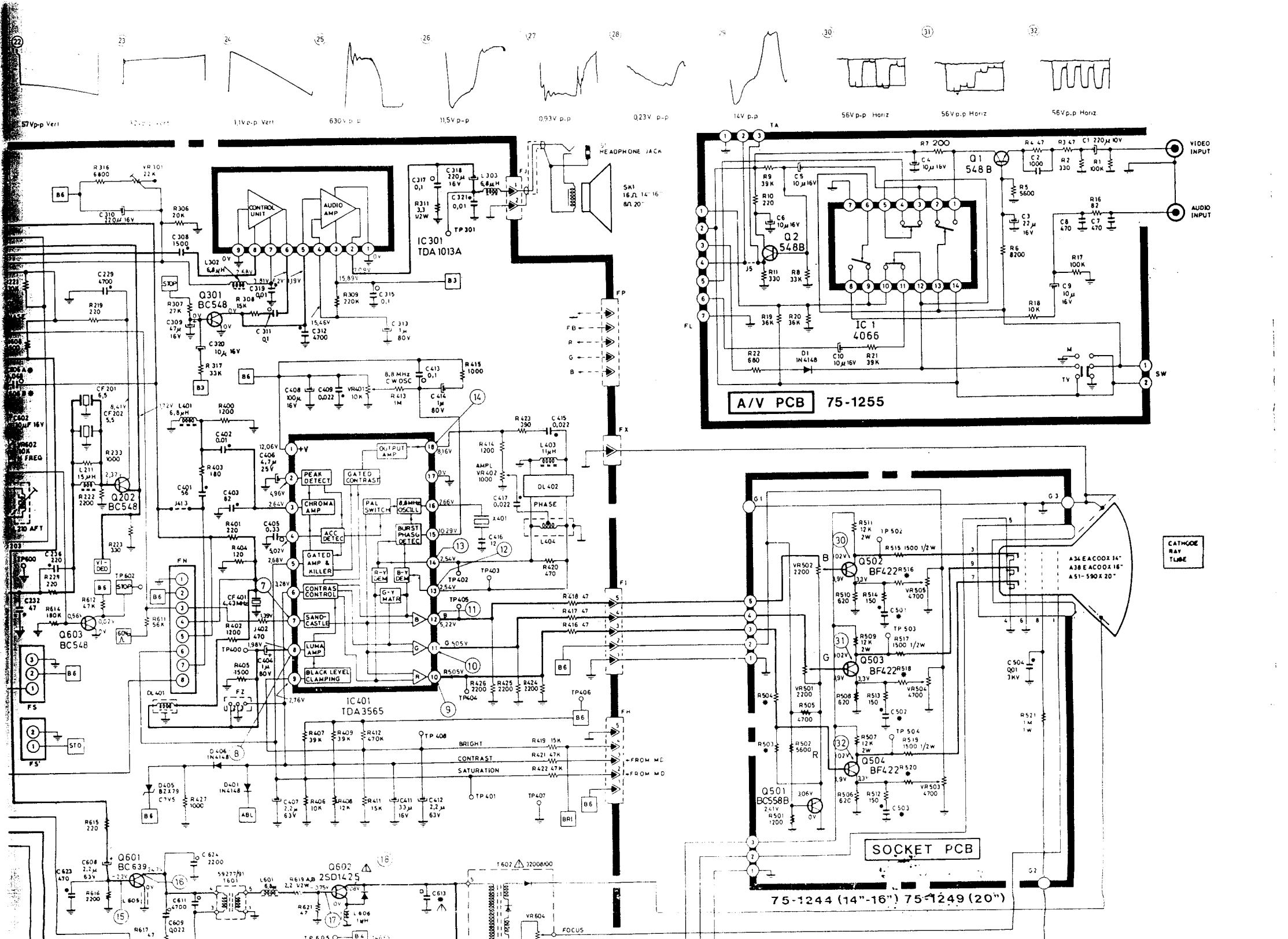
PRODUKTSICHERUNGSBESTIMMUNGEN

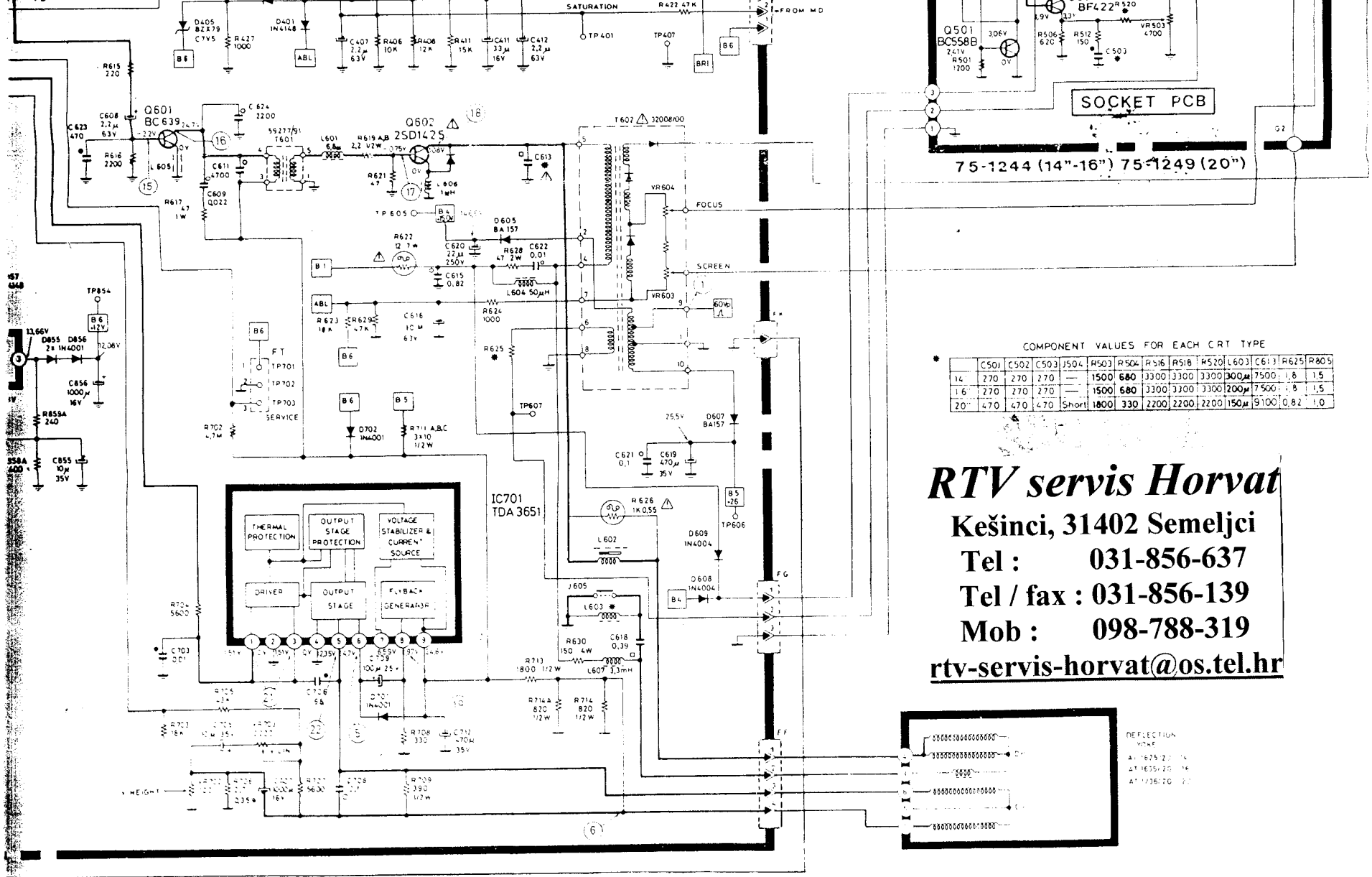
Bei jeden Bauteilwechsel im Gerät sind die Bestimmungen der Produktsicherung zu beachten. Bauteile, die im Schaltplan mit ⚠ gekennzeichnet sind unterliegen betimmten Sicherheitsbestimmungen. Als Ersatz für solche mit ⚠ gekennzeichneten Bauteile dürfen nur Originalteile verwendet werden, die in diesem Manual ausdrücklich empfohlen werden.

ZUR BEACHTUNG

1. Alle Wertangaben für Widerstände in ohm, K = 1.000 / M = 1.000.000.
2. Sofern nicht anderslautend im Schaltplan vermerkt, sind alle Kondensatorenwerte unter in1µF un über 1 in pF ausgewiesen.
3. Spannungsangaben sind gegen Chassis Masse bezogen. Alle Spannungen gemessen bei Normaleinstellung mit Farbbalken-Signal. Einige Spannungsangaben können mit dem Antennensignal variieren.
4. Alle Oscillogramme sind bezogen auf Empfang eines Farbbalken-Signals und Normaleinstellung sowie gemessen mit einem breitbandigen Oscilloskope unter Verwendung kapazitätsarmer Tastköpfe.
5. Alle Widerstandswerte von Transformatoren sind in unbelastetem Zustand gemessen.
6. Anderungen die dem technischen Fortschritt un der Verbesserung der Qualität unserer Produkte dienen behalten wir uns vor.




22
23
24
25
26
27
28
29
30
31
32
57Vp-p Vert
1,1Vp-p Vert
630V p-p
11,5V p-p
0,93V p-p
0,23V p-p
14V p-p
56Vp-p Horiz
56Vp-p Horiz
56Vp-p Horiz
HEADPHONE JACK
SK1
16Ω 14" 16"
8Ω 20"
IC 301
TDA 1013A
CONTROL UNIT
AUDIO AMP
Q301
BC548
STOP
TP 301
IC 401
TDA3565
PEAK DETECT
GATED CONTRAST
CHROMA AMP
PAL SWITCH
8,8MHz OSCILL
ACC DETEC
BURST PHASE DETEC
GATED AMP & KILLER
CONTRAS CONTROL
SANDCASTLE
LUMA AMP
BLACK LEVEL CLAMPING
OUTPUT AMP
R-Y DEM
B-Y DEM
G-Y MATR
PHASE
DL 402
DL 401
Q202
BC548
Q603
BC548
Q601
BC639
Q602
2SD1425
Q501
BC558B
Q502
BF422
Q503
BF422
Q504
BF422
BRIGHT
CONTRAST
SATURATION
FROM MC
FROM MD
A/V PCB 75-1255
Q1
548B
Q2
548B
IC 1
4066
VIDEO INPUT
AUDIO INPUT
SW
SOCKET PCB
75-1244 (14"-16") 75-1249 (20")
CATHODE RAY TUBE
A34 EAC00X 14"
A38 EAC00X 16"
A51-590X 20"
FOCUS



COMPONENT VALUES FOR EACH CRT TYPE

	C501	C502	C503	J504	R503	R504	R516	R518	R520	L603	C613	R625	R805
14"	270	270	270	—	1500	680	3300	3300	3300	300µ	7500	1,8	1,5
16"	270	270	270	—	1500	680	3300	3300	3300	200µ	7500	1,8	1,5
20"	470	470	470	Short	1800	330	2200	2200	2200	150µ	9100	0,82	1,0