



# SERVICE MANUAL

CN3362

MODEL : CN5051Z/RG6NX  
CHASSIS : P62SA(N) & RM115

## COLOUR TELEVISION RECEIVER



ADQUIRA LIVROS,  
REVISTAS E ESQUEMAS.  
O CONHECIMENTO É A  
GARANTIA DE SEU  
FUTURO!!!

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### SPECIFICATIONS

Television System : PAL - N/M, NTSC3.58 REMOTE CONTROL SYSTEM

Receiving Channel :

System Band	PAL - N/M
VHF	2 - 13
UHF	14 - 83

Intermediate Frequency :

System I-F Carrier Frequency	PAL - N/M
Picture I-F Carrier	45.75
Sound I-F Carrier	41.25
Colour Sub Carrier	42.17

(Units:MHz)

Picture Tube :

20" A48KRC81X/51GGB91X diagonal measured, Quick-start, In-line-gun, Black stripe, 90° degrees deflection

Power Requirements :

AC 110-260V, 50/60 Hz, 80 WATT

Antenna Input Impedance :

VHF,UHF : Telescopic dipole antenna (75 Ohm unbalanced type)

Speaker :

Impedance : 8 Ohm , 3W

Features :

Voltage synthesized tuning System, On-screen Display, Auto-fine Tuning, Dark Tube, Auto Brightness/Contrast Control, 32-Key Transmitter.

### SAFETY CAUTION :

Before servicing this model, it is important that a service technician reads and follows the "Safety Precaution" and "Product Safety Notice" in this Service Manual.

- For continued X-radiation, replace the picture tube with original type.
- Design and specifications are subject to change without prior notice.
- WARNING-SHOCK HAZARDS - Use an isolation transformer when servicing.

Pana Rio Audio e Video Ltda.

DIV 11456



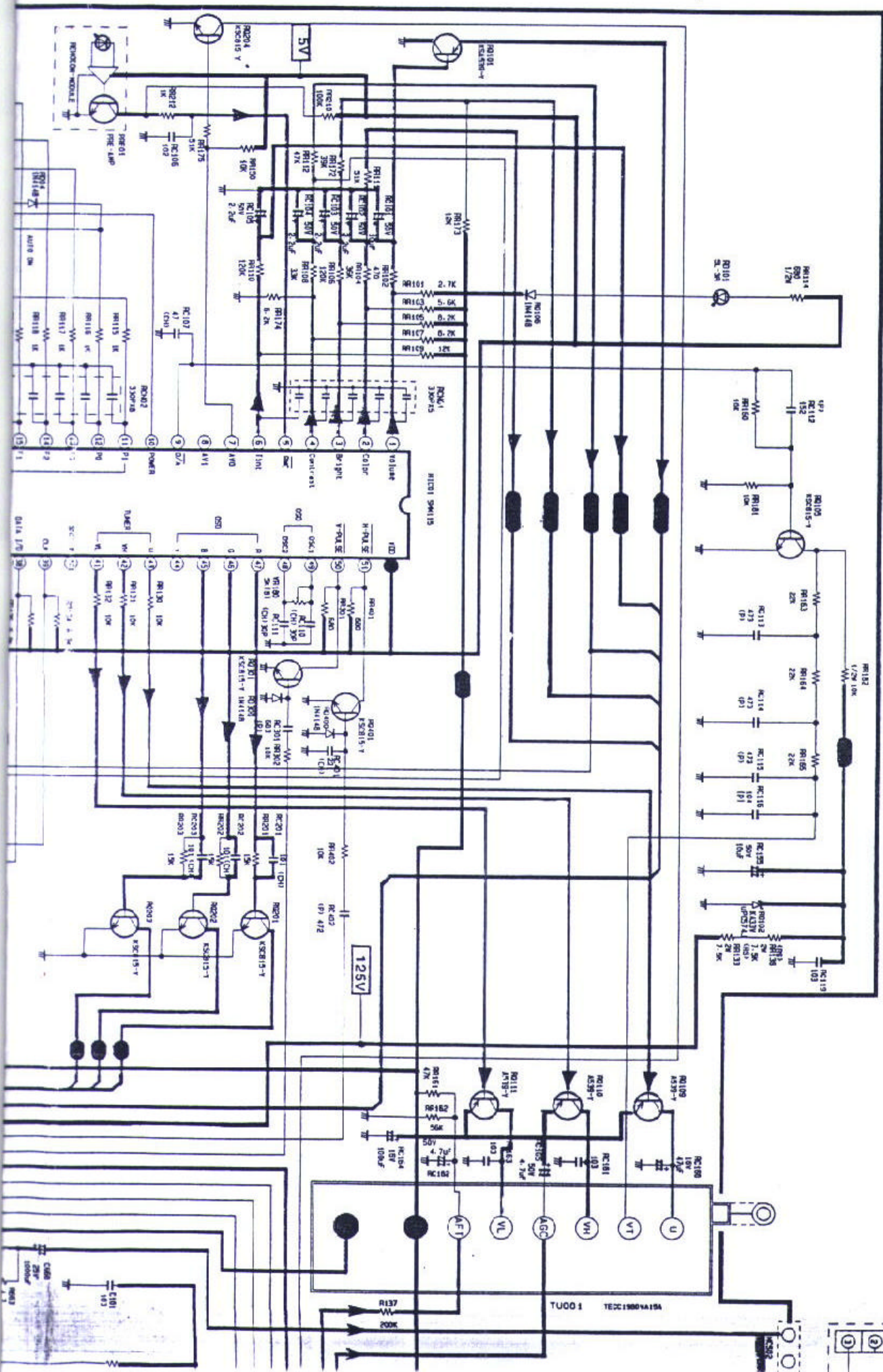
MODEL: CN5051Z  
BOARD NAME: MAIN  
SYSTEM. PAL-N. PAL-M. NT3. 58

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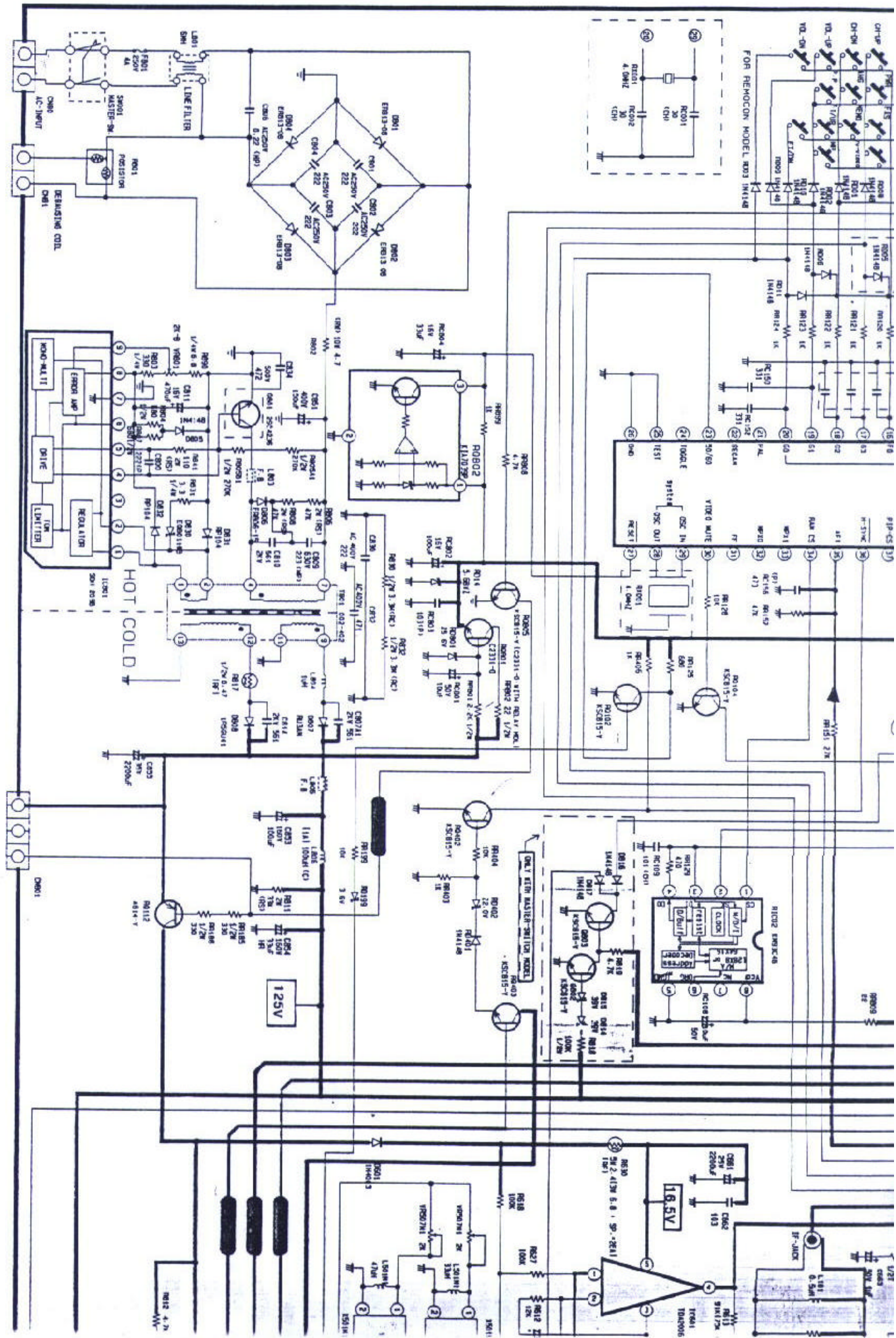
- NOTE
1. Resistance is shown in ohm K-1,000 R-1,000,000.
  2. Unless otherwise noted in schematic all capacitor values less than 1 are expressed in pF, and the values are then 1 in pF.
  3. Unless otherwise noted in schematic all inductor values more than 1 are expressed in mH.
  4. Voltage read with a 1 kV light impedance 21 MVA11 range from 0.1V to 100V.
  5. Waveform in waveform circuit are taken reading a color bar.
  6. Signal with enough sensitivity.
  7. Following readings shown are normal values and may vary 20% except H.V. changing may be made without revision of the design.
  8. This is final schematic circuit diagram show production.
  9. The circuitry include in dotted lines are optional parts. [a]

CAPACITOR	
Material	Value
Ceramic - SL	100
Ceramic - RH	100
Ceramic - CH	100
Polyester (Induct)	100
Polyester (NonInduct)	100
Polypropylene	100
Metal Polyester	100
M.P. Polypropylene	100
Tantalum	100
Non Polar	100


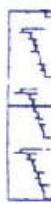



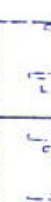

RESISTOR	
Material	Value
Carbon	100
Composition	100
Metal Oxide	100
Metal Film	100
Fusible	100
Cement Wire	100
Network	100







### TESTPOINT WAVEFORM

TP-11	TP-20	TP-21	TP-22	TP-24	TP-51	TP-5
CH1 50mV - A 20/μs 44 5mV VERT 	CH1 100mV - A 20/μs 139mV VERT 	CH1 2V - A 10ms 4.5V VERT 	CH1 100mV - A 10ms 85 5mV VERT 	CH1 10mV - A 20/μs -2.73mV VERT 	CH1 50mV - A 20/μs 140mV VERT 	CH1 50mV A 20/μs 



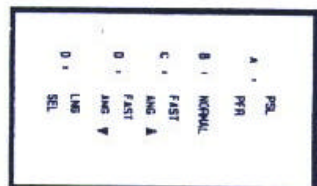
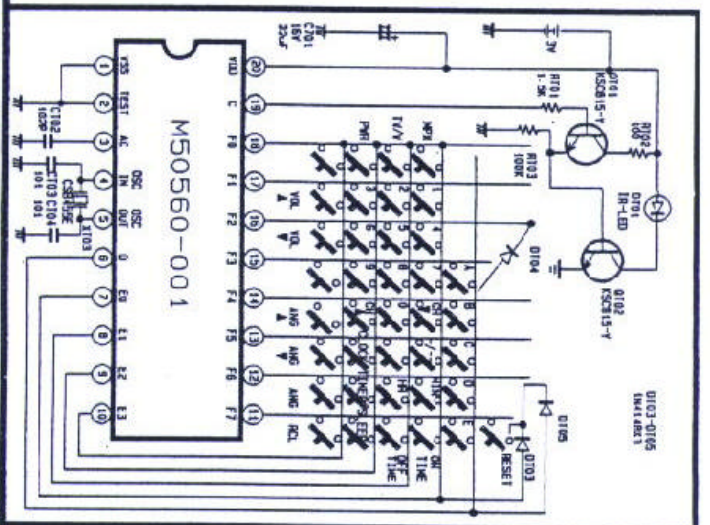
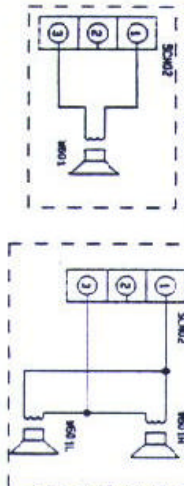
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C I T O R	
Resistor	(R)
Capacitor	(C)
Inductor	(L)
Diode	(D)
Transistor	(T)
Tube	(V)
Relay	(R)
Motor	(M)
Speaker	(S)
Antenna	(A)
Power Supply	(P)
Ground	(G)

R E S I S T O R	
Carbon	(C)
Composition	(S)
Metal Oxide	(M)
Metal Film	(F)
Fusible	(F)
Cement Wire	(W)
Network	(N)

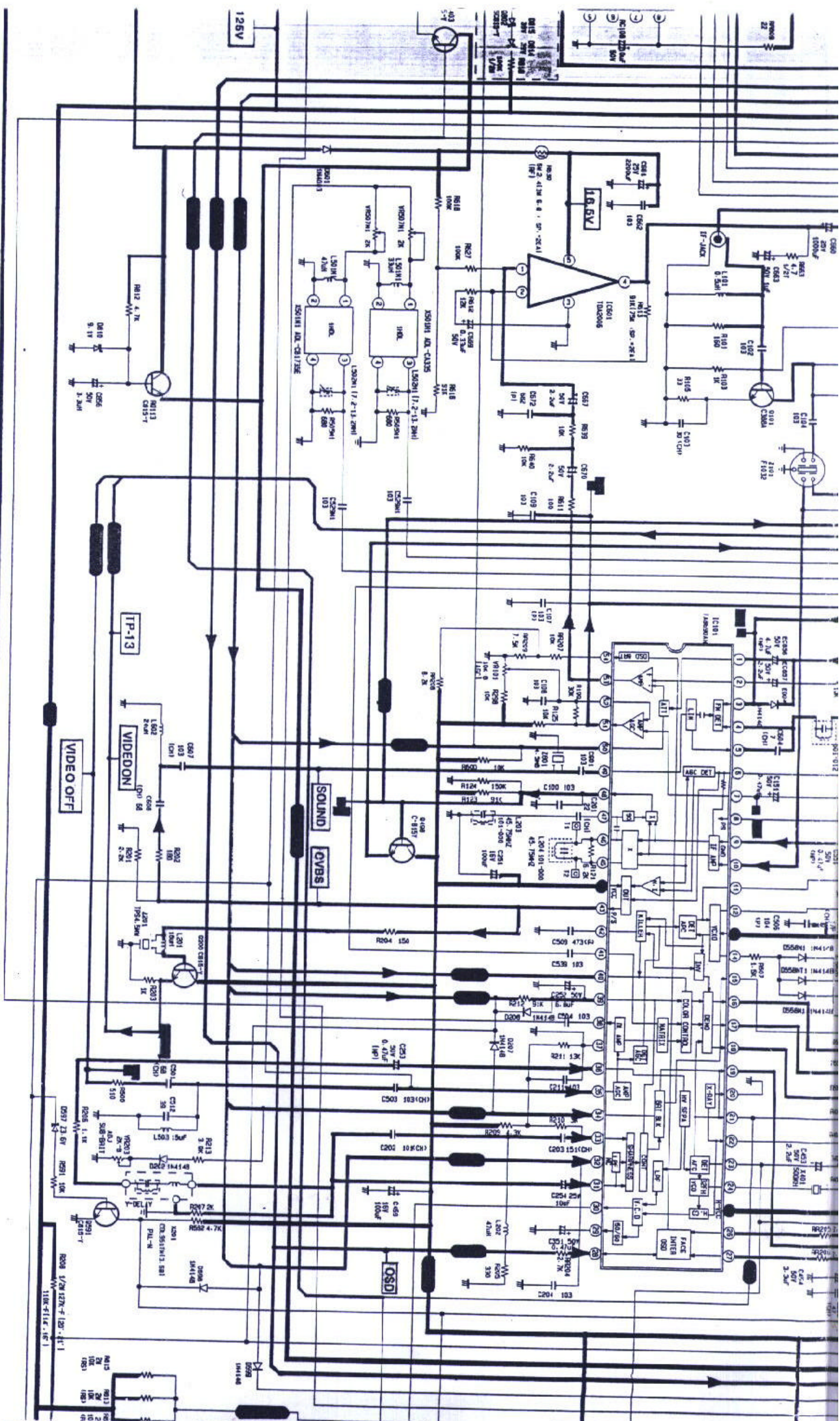
LOC. NO.	RES.	LOC. NO.	RES.	LOC. NO.	RES.
144	FET	145	FET	146	FET
147	FET	148	FET	149	FET
150	FET	151	FET	152	FET
153	FET	154	FET	155	FET
156	FET	157	FET	158	FET
159	FET	160	FET	161	FET
162	FET	163	FET	164	FET
165	FET	166	FET	167	FET
168	FET	169	FET	170	FET
171	FET	172	FET	173	FET
174	FET	175	FET	176	FET
177	FET	178	FET	179	FET
180	FET	181	FET	182	FET
183	FET	184	FET	185	FET
186	FET	187	FET	188	FET
189	FET	190	FET	191	FET
192	FET	193	FET	194	FET
195	FET	196	FET	197	FET
198	FET	199	FET	200	FET

SPEAKER TABLE



OBS: O VALOR DO CRISTAL X401 QUE LIAI  
LIGADO AO PINO 24 DO TA 8690 AN É DE  
503 F30





TP-51

TP-52

TP-53

TP-60

CH1 50mV - A 20μs 140mV - VERT

CH1 50mV A 20μs 140mV - VERT

CH1 50mV A 20μs 140mV - VERT

CH1 100mV A 1ms 250mV VERT

TP13⇒IF Control

TP14⇒IF Control DC

Voltage (+4.5V)

TP15⇒AGC Voltage Control

TP17⇒AFT Control

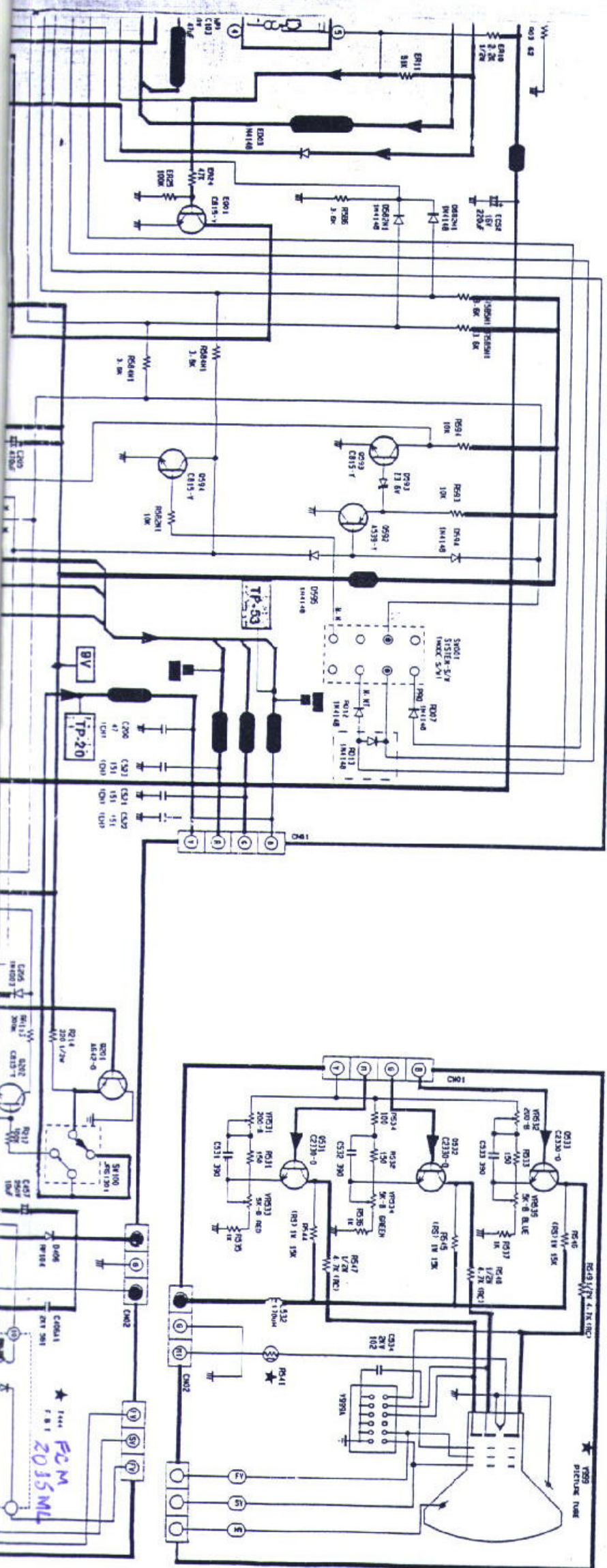
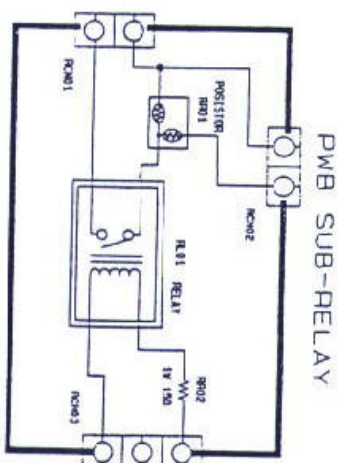
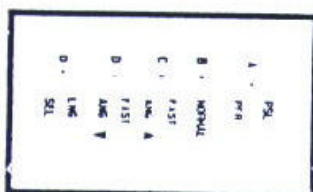
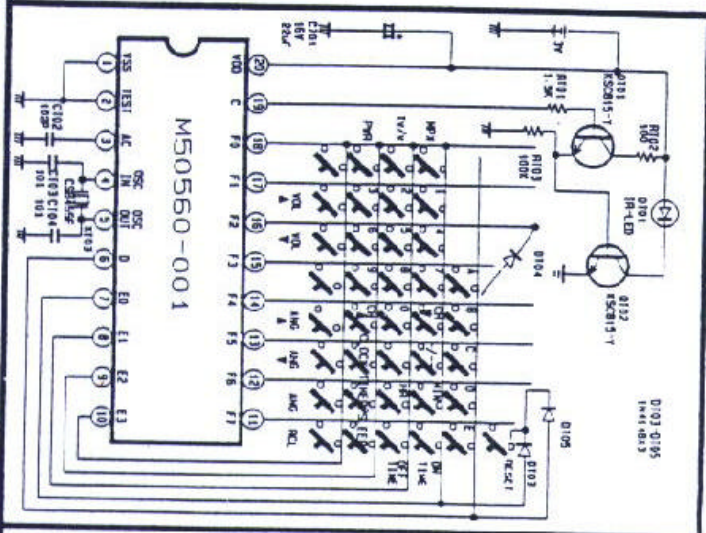
DIV 11456

DIV 11456



Oil 11456

PWB TRANSMITTER



TV SAMSUNG 20"  
CN-5055Z

TV 20"

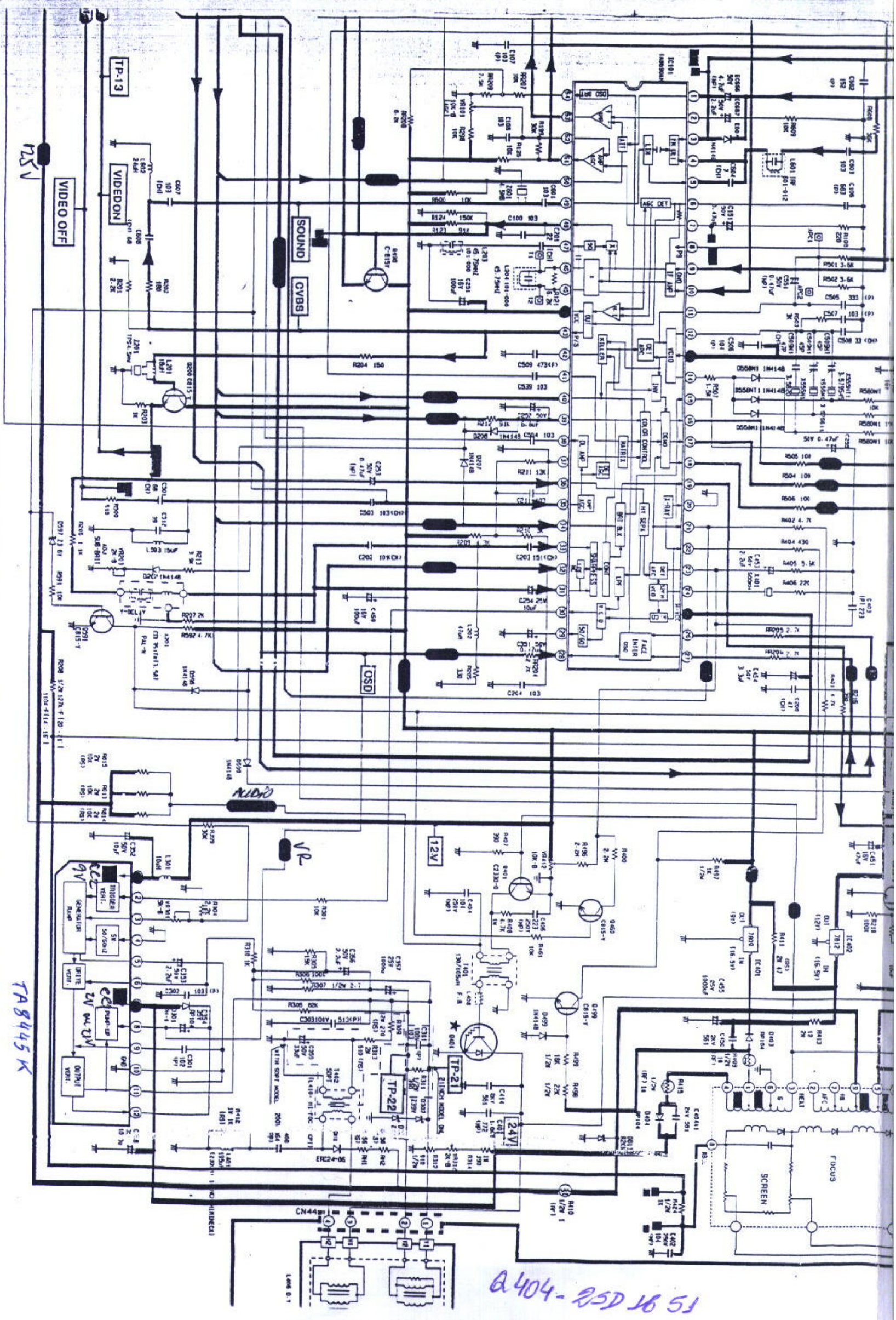


TP.60

Q10 14456

TA8445K

3



Q404-2SD 1651