

ORION

COLOR TELEVISION RECEIVER

Color 515 VT OSD

RTV servis Horvat

● Kešinci, 31402 Semeljci

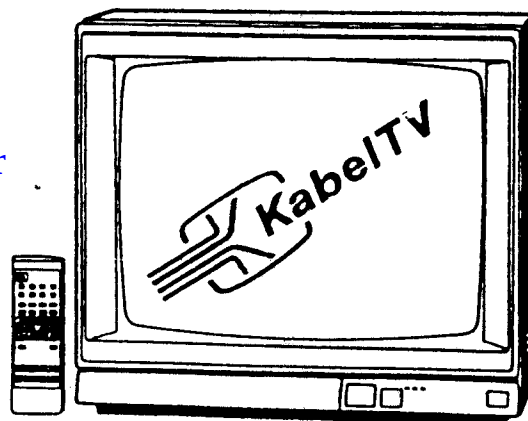
031-856-139

031-856-637

098-788-319

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Croatia



Änderungen vorbehalten!

Printed in Germany

Chassis Code:

G

Bestell-Nr.:

4253

ELECTRICAL ADJUSTMENTS

1. BEFORE ELECTRICAL ADJUSTMENT

These are adjustments when you replace electric parts or PCB ass'y. When you repair the electric circuit, please read these adjustments.

1-1: Prepare the following measurement tools for the electrical adjustment.

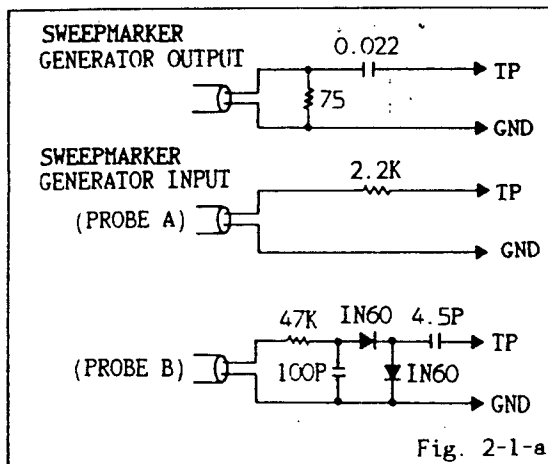
1. Oscilloscope (2 Channel Type)
2. Digital Voltmeter
3. Color Bar Generator
4. Sweepmarker Generator
5. VIF Unit

2. BASIC ADJUSTMENT

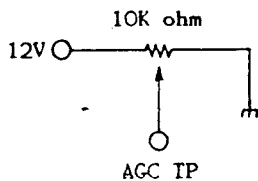
2-1: VIF AND AFT

NOTE

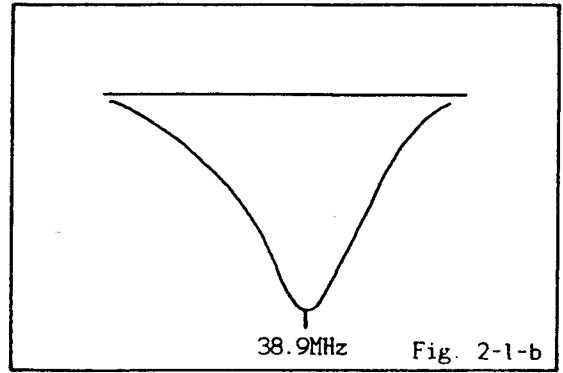
Connect input and output terminal of the sweepmarker generator to circuit as shown in Fig. 2-1-a, then adjust it.



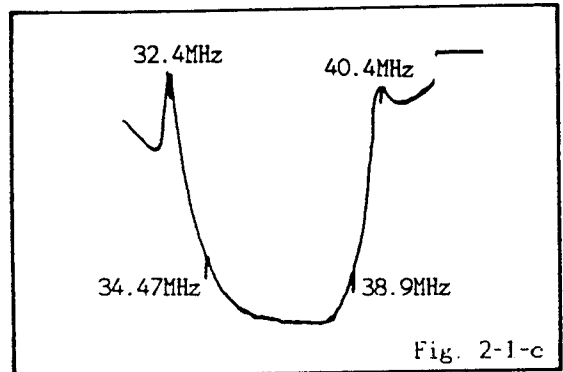
1. Connect output terminal of the sweepmarker generator to IPO08.
2. Connect input terminal of the sweepmarker generator to IPO01. (PROBE A)
3. Connect the volume 10K ohm to IF AGC terminal (IPO07), 12V line and ground, then adjust to make the waveform of the oscilloscope be easy to watch.



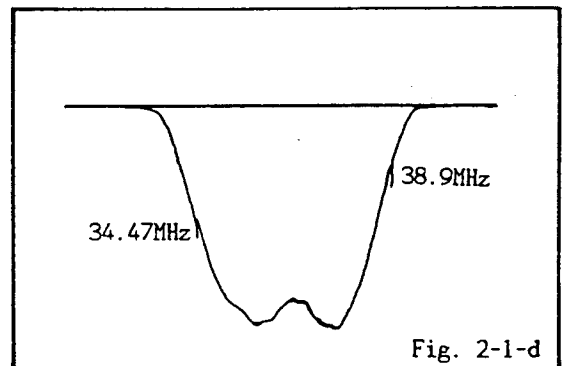
4. Adjust L204 until the waveform marker (38.9MHz) will become as shown in Fig. 2-1-b.



5. Disconnect output terminal of the sweepmarker generator from IPO08, then connect it to TP of the Tuner Pack. (Connect a 2.7K ohm resistor between them.)
6. Disconnect input terminal of the sweepmarker generator from IPO01, then connect it to IPO02. (PROBE B)
7. Adjust L202 and L201 until the waveform markers (32.4MHz, 40.4MHz) will become as shown in Fig. 2-1-c.



8. Disconnect input terminal of the sweepmarker generator from IPO02, then connect it to IPO01. (PROBE A)
9. Connect the resistor 100 ohm between IPO03 and IPO04.
10. Confirm the waveform is as shown in Fig. 2-1-d.



11. Disconnect the volume 10K ohm and resistor 100 ohm.
12. Input a 38.9MHz signal to TP of the tuner pack.
13. Connect the digital voltmeter to IPO09.
14. Turn L205 to find the point where voltage of IPO09 changes dramatically. Adjust until it will be DC6.5V at the point.

ELECTRICAL ADJUSTMENTS

2-2: RF AGC

NOTE

Adjust after performing adjustments in section 2-1.

2-2-A: Weak electric field case.

1. Receive the noisy channel.
2. Adjust VR201 until noise will be weak.
3. Change the channel, confirm other channels are normal.

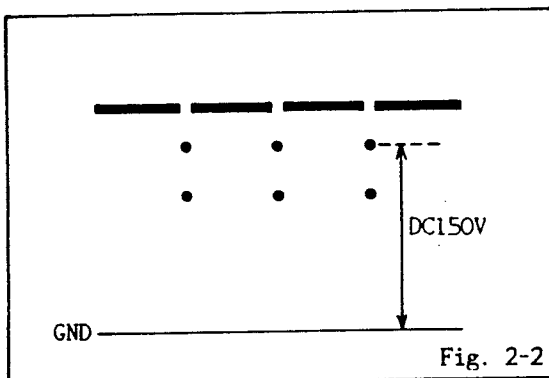
2-2-B: Strong electric field case.

(When diagonal streaks, radio frequency interference appear.)

1. Adjust VR201 until diagonal streaks will be weak.
2. When it is not good condition after adjusting VR201, install the attenuator to the antenna terminals, then adjust step (1) again.
3. Confirm noise will appear.
4. Change the channel, confirm other channels are normal.

2-3: CUT OFF

1. Receive the Color Bar Pattern.
2. Set the Bright and Contrast controls to minimum position.
3. Connect the oscilloscope to TP24.
4. Adjust the Screen control until voltage will be DC150V. (Refer to Fig. 2-2)



2-4: FOCUS

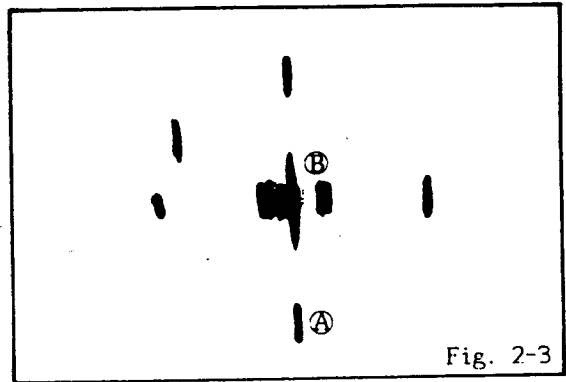
1. Receive the broadcasting signal.
2. Adjust the focus control until picture will be distinct.

2-5: VERTICAL SIZE

1. Receive the crosshatch pattern from the color bar generator.
2. Adjust the bright and contrast controls until the crosshatch pattern is distinct.
3. Adjust VR401 until the center of crosshatch is square.
4. Receive broadcasting signal, then confirm picture is normal.

2-6: HUE DELAY

1. Receive the DEM Pattern.
2. Connect the dual oscilloscope to TP012 and TP011.
3. Turn L604 to bring two dots of A to one dot. Turn VR601 to bring four dots of B to one dot. (Refer to Fig. 2-3)



2-7: HORIZONTAL POSITION

1. Receive the color bar pattern.
2. Adjust VR403 until the color width of both of screen edges will be equal.
3. Receive broadcasting signal, then confirm picture is normal.

2-8: SUB BRIGHT

1. Receive the monochrome pattern.
2. Press the NORMAL button on the remote control unit.
3. Adjust VR102 until 0% of gray scale will be dim completely.

2-9: VERTICAL POSITION

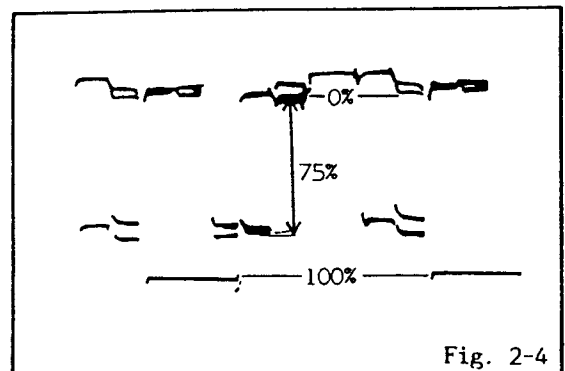
1. Receive the color bar pattern.
2. Adjust VR402 until horizontal line of the color bar will come to around center of the CRT.

2-10: HORIZONTAL SIZE

1. Receive the crosshatch pattern from the color bar generator.
2. Adjust the bright and contrast controls until the crosshatch pattern is distinct.
3. Adjust VR501 until the center of crosshatch is square.
4. Receive broadcasting signal, then confirm picture is normal.

2-11: SUB COLOR

1. Connect the oscilloscope to TP22.
2. Press the NORMAL button on the remote control unit.
3. Receive the color bar pattern.
4. Set the AFT switch ON position.
5. Adjust the VOLTS RANGE VARIABLE knob of the oscilloscope until the range between white 100% and 0% is set to four scales on the screen of the oscilloscope.
6. Adjust VR103 until the red color level is set to the third scale (75%) from white 0%. (Refer to Fig. 2-4)



ELECTRICAL ADJUSTMENTS

3. PURITY AND CONVERGENCE ADJUSTMENT

NOTE

1. Turn the unit on and let it warm up for at least 30 minutes before performing the following adjustments.
2. Place the CRT surface facing east or west to reduce the terrestrial magnetism.
3. Turn ON the unit and demagnetize with a Degauss Coil.

3-1: STATIC CONVERGENCE (ROUGH ADJUSTMENT)

1. Tighten the screw for the magnet. Refer to the adjusted CRT for the position. (Refer to Fig. 3-1)
If the deflection yoke and magnet are in one body, untighten the screw for the body.
2. Receive the green raster pattern from color bar generator.
3. Slide the deflection yoke until it touches the funnel side of the CRT.
4. Adjust center of screen to green, with red and blue on the sides, using the pair of purity magnets.
5. Switch the color bar generator from the green raster pattern to the crosshatch pattern.
6. Combine red and blue of the 3 color crosshatch pattern on the center of the screen by adjusting the pair of 4 pole magnets.
7. Combine red/blue (magenta) and green by adjusting the pair of 6 pole magnets.
8. Adjust the crosshatch pattern to change to white by repeating steps 6 and 7.

3-2: PURITY

NOTE

Adjust after performing adjustments in section 3-1.

1. Receive the green raster pattern from color bar generator.
2. Adjust the pair of purity magnets to center the color on the screen.
Adjust the pair of purity magnets so the color at ends are equally wide.
3. Move the deflection yoke backward (To neck side) slowly, and stop it at the position when the whole screen is green.
4. Confirm red and blue colors.
5. Adjust the slant of the deflection yoke while watching the screen, then tighten the fixing screw.

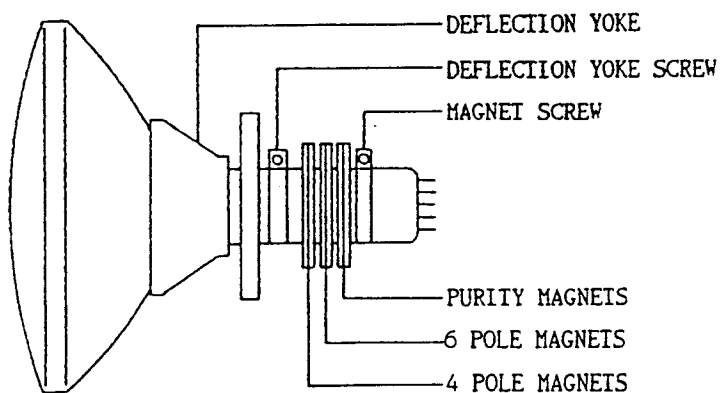


Fig. 3-1

3-3: STATIC CONVERGENCE

NOTE

Adjust after performing adjustments in section 3-2.

1. Receive the crosshatch pattern from color bar generator.
2. Combine red and blue of the 3 color crosshatch pattern on the center of the screen by adjusting the pair of 4 pole magnets.
3. Combine red/blue (magenta) and green by adjusting the pair of 6 pole magnets.

3-4: DYNAMIC CONVERGENCE

NOTE

Adjust after performing adjustments in section 3-3.

1. Adjust the differences around the screen by moving the deflection yoke upward/downward and right/left. (Refer to Fig. 3-2-a)
2. Insert three wedges between the deflection yoke and CRT funnel to fix the deflection yoke. (Refer to Fig. 3-2-b)

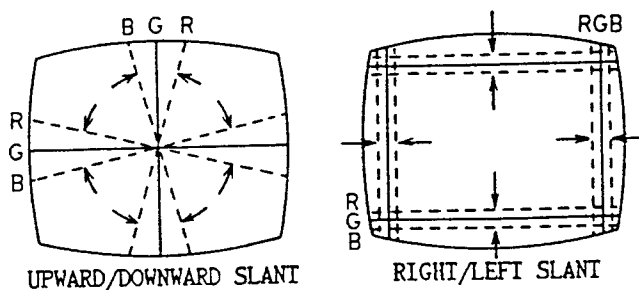
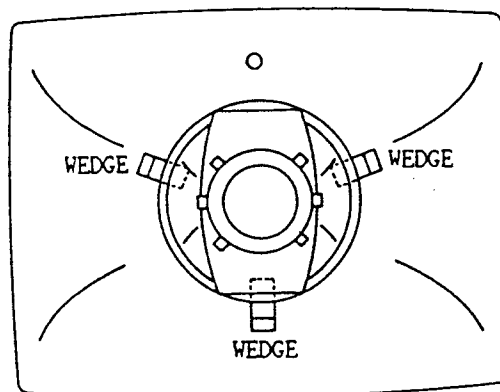


Fig. 3-2-a



WEDGE POSITION

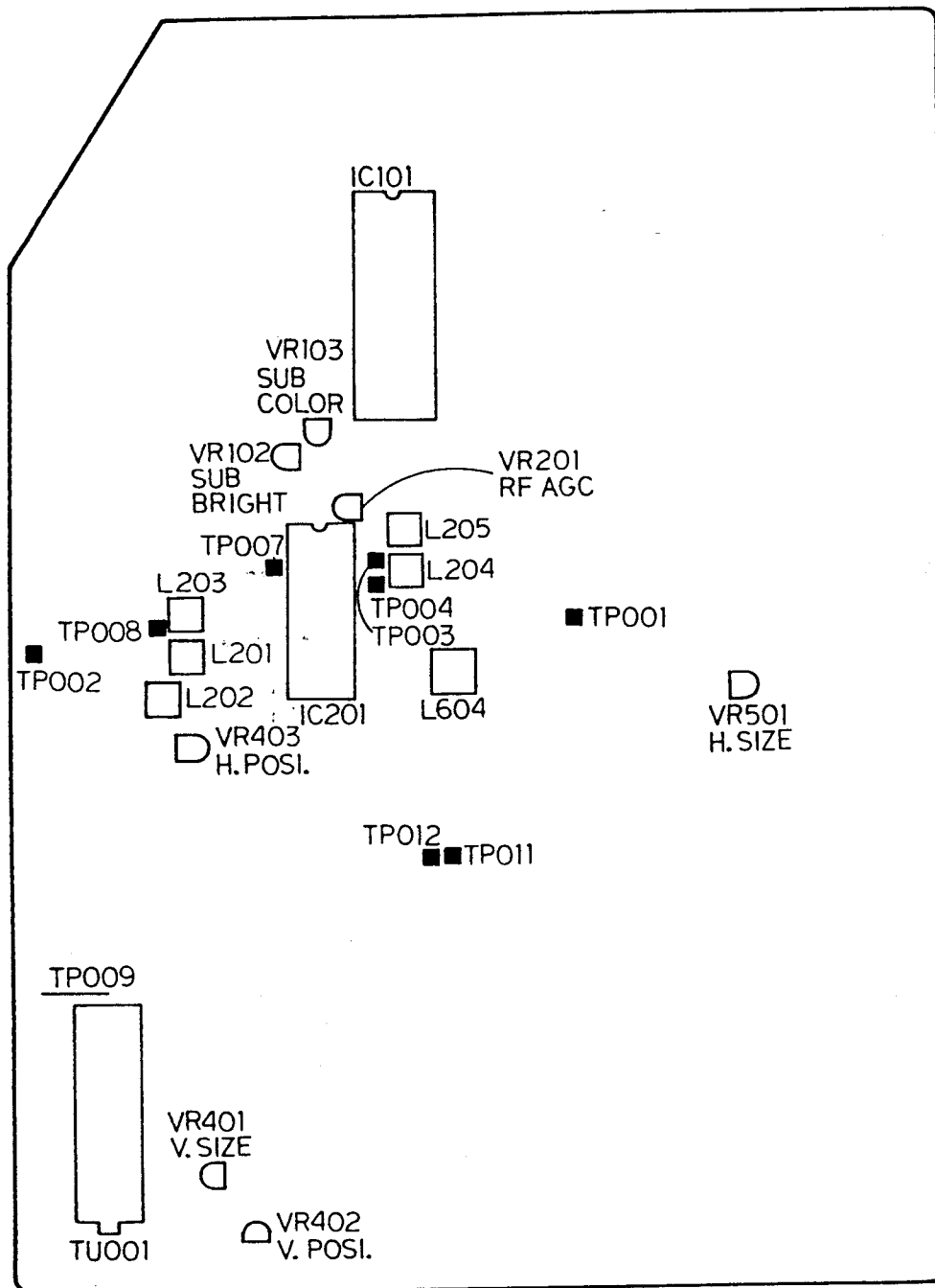
Fig. 3-2-b

THIS ELECTRICAL PARTS LIST IS STANDARD PART LIST. BUT
INTERCHANGEABLE PARTS MAY BE USED IN THE UNIT.
SEE THE INTERCHANGEABLE PARTS LIST AFTER THE STANDARD PARTS LIST.

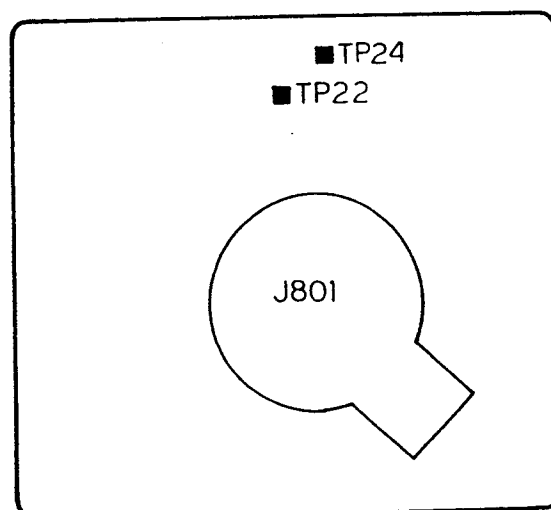
ELECTRICAL REPLACEMENT PARTS LIST

REF.NO	PART NO	DESCRIPTION		REF.NO	PART NO	DESCRIPTION	
RESISTORS				SEMICONDUCTORS (CONT)			
△ R168	R3K181123J	R.METAL	12K OHM 1W	D413	D1VT001320	DIODE.SILICON	1SS132T-77
R186	R00106122J	RC	1.2K OHM 1/6W	D417	D1VT001320	DIODE.SILICON	1SS132T-77
R187	R00106104J	RC	100K OHM 1/6W	D419	D28T10ELS6	DIODE.RECTIFIER	10ELS6TA1
△ R358	R61582101J	R.FUSE	100 OHM 1/2W	D420	D92T05R1B2	DIODE.ZENER	RD5.1EB 2 TA11R
△ R410	R3K188472J	R.METAL OXIDE	4.7K OHM 3W	D430	D92T06R8B2	DIODE.ZENER	RD6.8EB 2 TA11R
△ R415	R61584390J	R.FUSE	39 OHM 1/4W	△ D501	D28H20E100	DIODE.SILICON	20E10FA13
△ R425	R61581270J	R.FUSE	27 OHM 1W	△ D502	D28H20E100	DIODE.SILICON	20E10FA13
△ R433	R426021R5F	R.METAL	1.5 OHM 1/2W	△ D503	D28H20E100	DIODE.SILICON	20E10FA13
△ R434	R5W2CE100J	R.CEMENT	10 OHM 7W	△ D504	D28H20E100	DIODE.SILICON	20E10FA13
△ R437	R615822R2J	R.FUSE	2.2 OHM 1/2W	D505	D2B00RJ280	DIODE.SILICON	RU-28
△ R438	R61481R33K	R.FUSE	0.33 OHM 1W	D506	D2BT00RH10	DIODE.RECTIFIER	RH-1 V1
△ R447	R3K28A152J	R.METAL OXIDE	1.5K OHM 2W	D508	D2BT00R2M0	DIODE.AVALANCHE	R2M V1
△ R448	R3K28A152J	R.METAL OXIDE	1.5K OHM 2W	D512	D92T05R1B2	DIODE.ZENER	RD5.1EB 2 TA11R
△ R452	R614811R5J	R.FUSE	1.5 OHM 1W	D590	D23TDSA12T	DIODE.RECTIFIER	DSA12TL-AT1
△ R459	R63582102J	R.FUSE	1K OHM 1/2W	D801	D1VT024720	DIODE.SILICON	1S2472T-77
△ R461	R61582680J	R.FUSE	68 OHM 1/2W	D802	D1VT024720	DIODE.SILICON	1S2472T-77
△ R501	R5W2CD5R6K	R.CEMENT	5.6 OHM 5W	D803	D1VT024720	DIODE.SILICON	1S2472T-77
△ R506	R3K18A220J	R.METAL	22 OHM 2W	D853	DD3RLF01L	DIODE.SILICON	LF8-01L
△ R509	R3K181103J	R.METAL	10K OHM 1W	D901	D92T0100B2	DIODE.ZENER	RD10EB 2 TA11R
△ R514	R65502330J	R.FUSE	33 OHM 1/2W	D902	D9200200B2	DIODE.ZENER	RD20EB 2
△ R590	R5W2CF332J	R.CEMENT	3.3K OHM 10W	D903	D93001200Y	DIODE.ZENER	GZA12 Y
△ R591	R3228B331J	R.METAL OXIDE	330 OHM 3W	D904	D93001200Y	DIODE.ZENER	GZA12 Y
△ R661	R00106113J	RC	11K OHM 1/6W	D905	D93001200Y	DIODE.ZENER	GZA12 Y
△ R802	R3K18A103J	R.METAL	10K OHM 2W	IC101	I52D01021A	IC	OEC1021A
△ R805	R3K18A103J	R.METAL	10K OHM 2W	IC102	I57D09021E	IC	BR9021A-E
△ R810	R3K18A103J	R.METAL	10K OHM 2W	IC103	I03D06358T	IC	LA6358T
△ R927	R615U4270J	R.FUSE	27 OHM 1/4W	IC104	I0X398M050	IC	UPC78M05H
CAPACITORS				△ IC105	I0M190574J	IC	UPC574J-T
C221	C0J0SL432K	CC	300 PF 50V SL	IC201	I05DE86910	IC	TA8691N
C356	CA1B30KH2M	CC	220 PF 400V AC	△ IC401	I03SD78380	IC	LA7838
C359	C0J0SL4E2K	CC	150 PF 50V SL	△ IC402	I0X398M090	IC	UPC78M09H
C361	C0J0B0413K	CC	0.001 UF 50V YB	△ IC501	I2B490103A	IC	STR50103A
C418	E0EL03222M	CE	2200 UF 25V	IC502	I0X398M050	IC	UPC78M05H
C425	P6M300274J	CMPL	0.27 UF 50V TF	IC851	I4KDF52460	IC	SAAS246AP/E M6
C437	P441F2684J	CMPP	0.68 UF 200V	IC852	I53D03517C	IC	LC3517A-15
C441	P441F2564J	CMPP	0.56 UF 200V	IC853	I01D058600	IC	AN5860
C442	P442F9123J	CMPP	0.012 UF 1600V	IC901	I05DE77780	IC	TA7778P
C444	P442F9182J	CMPP	0.0018UF1600V	Q101	TALT007330	TRANSISTOR.SILICON	2SA733(C)-T
C494	C0J0SL4L2J	CC	330 PF 50V SL	Q102	TCLT009450	TRANSISTOR.SILICON	2SC945A(C)-T
C502	E52C0H221M	CE	220 UF 400V	Q103	T2LTSK1050	TRANSISTOR.FIELD EFFECT	2SK105-T
C506	C0JBB07H3K	CC	0.0022UF 2KV YB	Q104	TCLT009450	TRANSISTOR.SILICON	2SC945A(C)-T
C509	C0JBB07H3K	CC	0.0022UF 2KV YB	Q105	TCLT009450	TRANSISTOR.SILICON	2SC945A(C)-T
△ C511	C0JBB07H3K	CC	0.0022UF 2KV YB	Q106	TCLT009450	TRANSISTOR.SILICON	2SC945A(C)-T
C513	P2420A474M	CMP	0.47UFAC125V/250V	Q107	TCLT009450	TRANSISTOR.SILICON	2SC945A(C)-T
C514	P2420A104M	CMP	0.1 UFAC125V/250V	Q108	TCLT009450	TRANSISTOR.SILICON	2SC945A(C)-T
C515	C03BBN7W2K	CC	820 PF 2KV	Q109	TCLT009450	TRANSISTOR.SILICON	2SC945A(C)-T
C516	C03BBN7N2K	CC	390 PF 2KV	Q110	TCLT009450	TRANSISTOR.SILICON	2SC945A(C)-T
C517	E0E7F8101M	CE	100 UF 160V	Q111	TCLT009450	TRANSISTOR.SILICON	2SC945A(C)-T
C518	C03BBN713K	CC	0.001 UF 2KV	Q112	TCLT009450	TRANSISTOR.SILICON	2SC945A(C)-T
C590	C0JBB07H3K	CC	0.0022UF 2KV YB	Q113	TCLT009450	TRANSISTOR.SILICON	2SC945A(C)-T
C634	C0J0SL4H2K	CC	220 PF 50V SL	Q115	TALT00952L	TRANSISTOR.SILICON	2SA952(C)-T L
C635	C0J0B04Q3K	CC	0.0047UF 50V YB	Q116	TALT00952L	TRANSISTOR.SILICON	2SA952(C)-T L
C813	C0JBB07H3K	CC	0.0022UF 2KV YB	Q117	TALT00952L	TRANSISTOR.SILICON	2SA952(C)-T L
C886	C0J0SL4H2J	CC	220 PF 50V SL	Q122	TALT007330	TRANSISTOR.SILICON	2SA733(C)-T
SEMI CONDUCTORS				Q201	TCQT205850	TRANSISTOR.SILICON	2SC2058STP
D101	D1VT001320	DIODE.SILICON	1SS132T-77	Q202	TCLT009450	TRANSISTOR.SILICON	2SC945A(C)-T
D102	D1VT001320	DIODE.SILICON	1SS132T-77	Q351	TC30041590	TRANSISTOR.SILICON	2SC4159(D.E)
D103	D1VT001320	DIODE.SILICON	1SS132T-77	△ Q352	TC30041590	TRANSISTOR.SILICON	2SC4159(D.E)
D104	D1VT001320	DIODE.SILICON	1SS132T-77	Q401	TDFU015550	TR..SILICON	2SD1555(LBOEC.E)
D105	D1VT001320	DIODE.SILICON	1SS132T-77	Q402	TC50026880	TRANSISTOR.SILICON	2SC2688(L)-(M)
D106	D1VT001320	DIODE.SILICON	1SS132T-77	Q403	TCLT009450	TRANSISTOR.SILICON	2SC945A(C)-T
D107	D1VT001320	DIODE.SILICON	1SS132T-77	Q404	TCLT009450	TRANSISTOR.SILICON	2SC945A(C)-T
D109	D1VT001320	DIODE.SILICON	1SS132T-77	Q430	TCLT009450	TRANSISTOR.SILICON	2SC945A(C)-T
D109	D1VT001320	DIODE.SILICON	1SS132T-77	Q480	TCLT00945P	TRANSISTOR.SILICON	2SC945A(C)-T P
D111	D1VT001320	DIODE.SILICON	1SS132T-77	Q481	TCLT009450	TRANSISTOR.SILICON	2SC945A(C)-T
D116	0021320140	LED	SLP-136C-50	Q482	TALT007330	TRANSISTOR.SILICON	2SA733(C)-T
D126	D1VT001320	DIODE.SILICON	1SS132T-77	Q502	TALT00952L	TRANSISTOR.SILICON	2SA952(C)-T L
D121	D92T06R8B1	DIODE.ZENER	RD6.8EB 1 TA11R	Q517	TCQT3415S0	TRANSISTOR.SILICON	2SC3415STP(N.P)
D125	D93013001C	DIODE.ZENER	GZB30C	Q601	TCYT1740S0	TR..SILICON	2SC1740SP(R.S) TP
D131	D92T05R6B2	DIODE.ZENER	RD5.6EB 2 TA11R	Q801	TA3T1371A0	TRANSISTOR.SILICON	2SA1371(D.E)-AE
D133	D1V0001320	DIODE.SILICON	1SS132	Q802	TA3T1371A0	TRANSISTOR.SILICON	2SA1371(D.E)-AE
D351	D1VT001320	DIODE.SILICON	1SS132T-77	Q803	TA3T1371A0	TRANSISTOR.SILICON	2SA1371(D.E)-AE
D352	D1VT001320	DIODE.SILICON	1SS132T-77	Q804	TC3Q040750	TR..SILICON	2SC4075(D.E)-YAC
D402	D92T09R1B2	DIODE.ZENER	RD9.1EB 2 TA11R	Q805	TC3Q040750	TR..SILICON	2SC4075(D.E)-YAC
D403	D28T10ELS6	DIODE.RECTIFIER	10ELS6TA1	Q806	TC3Q040750	TR..SILICON	2SC4075(D.E)-YAC
D404	D28T011E10	DIODE.SILICON	11E1TA1	Q851	T8YA2412K0	TRANSISTOR.SILICON	2SC2412KT147
D405	D92T06R8B2	DIODE.ZENER	RD6.8EB 2 TA11R	Q852	TPYTD03002	COMPOUND TRANSISTOR	DTA144TSTP
D406	D92T0110B3	DIODE.ZENER	RD11EB 3 TA11R	Q853	T8YA2412K0	TRANSISTOR.SILICON	2SC2412KT147
D407	D23TFH10TG	DIODE.RECTIFIER	DFH10TG-AT1	Q857	T8YA2412K0	TRANSISTOR.SILICON	2SC2412KT147
D408	D28T10ELS6	DIODE.RECTIFIER	10ELS6TA1	Q858	T8YA2412K0	TRANSISTOR.SILICON	2SC2412KT147
D410	D28T10ELS6	DIODE.RECTIFIER	10ELS6TA1	Q859	T8YA2412K0	TRANSISTOR.SILICON	2SC2412KT147
D412	D1VT001320	DIODE.SILICON	1SS132T-77	Q860	T8YA2412K0	TRANSISTOR.SILICON	2SC2412KT147

MAJOR COMPONENTS LOCATION GUIDE

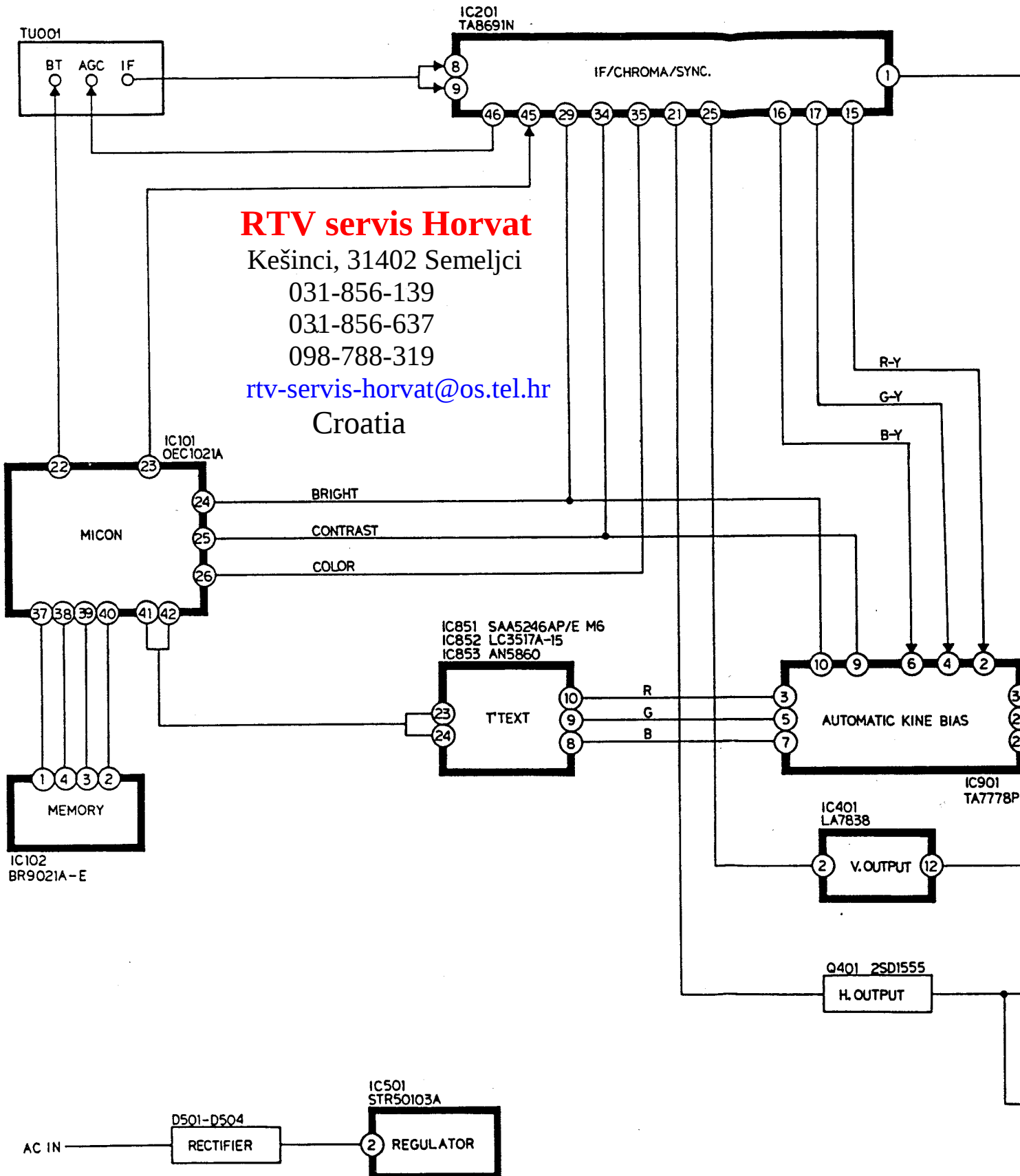


MAIN

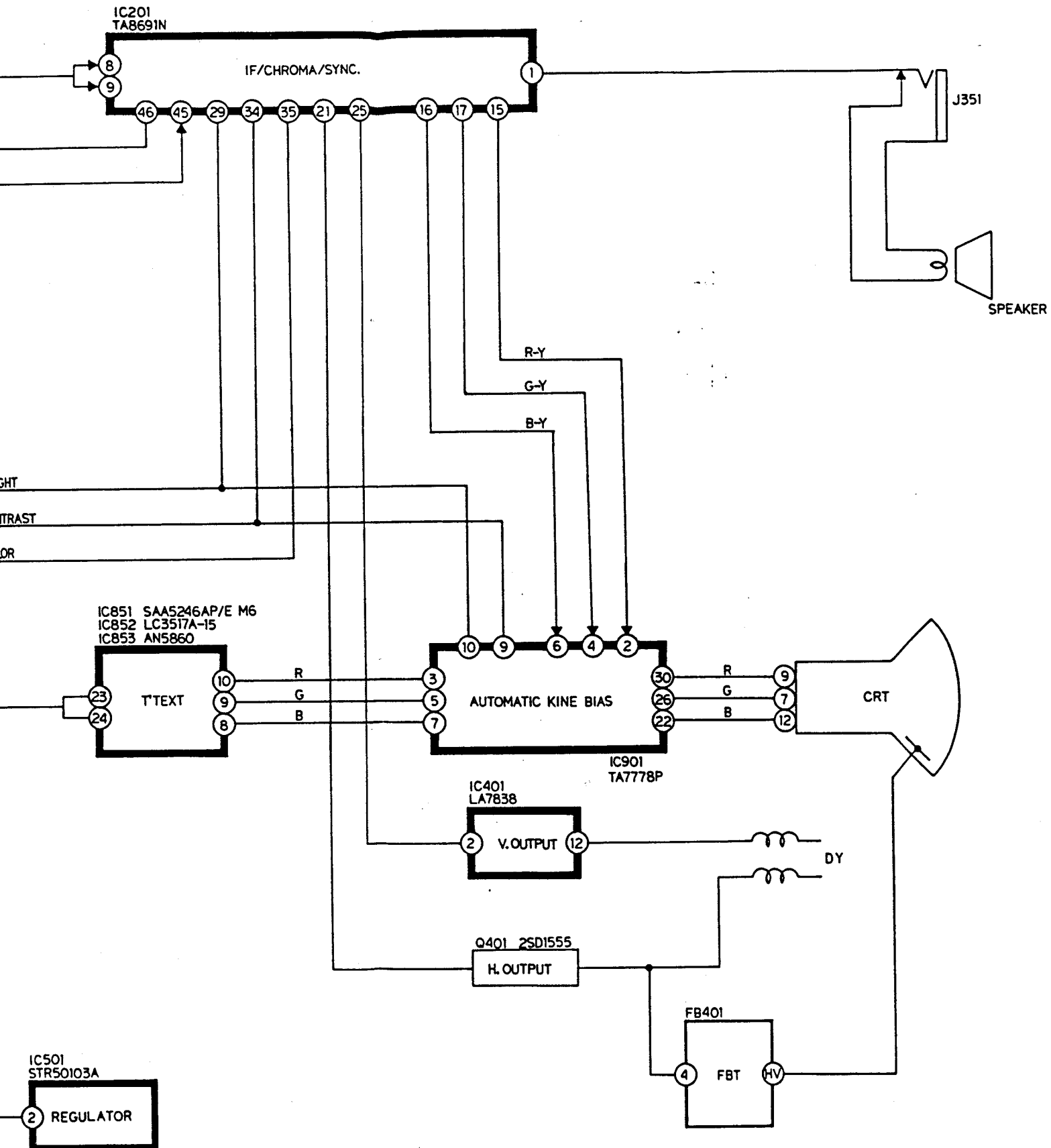


CRT

BLOCK DIAGRAM

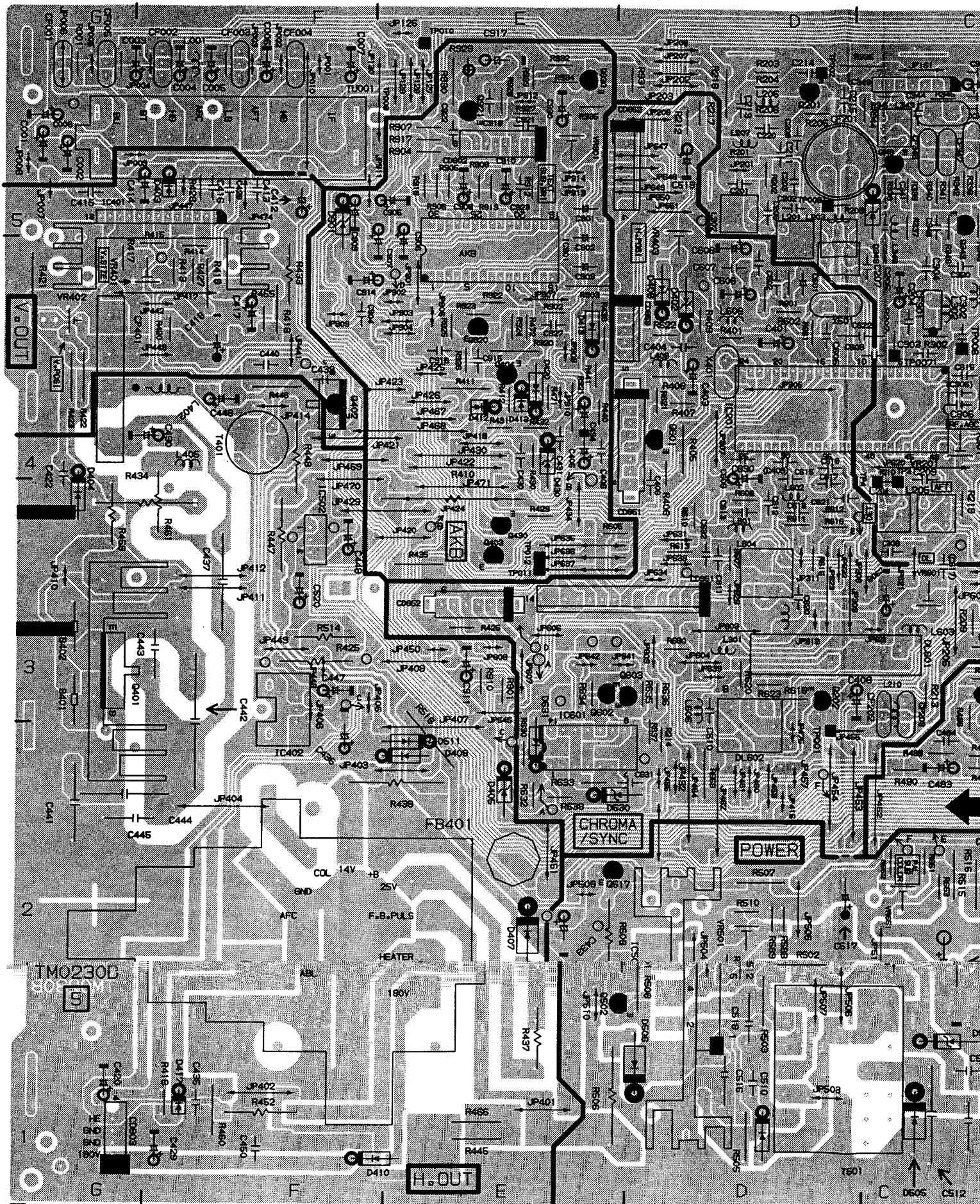


BLOCK DIAGRAM



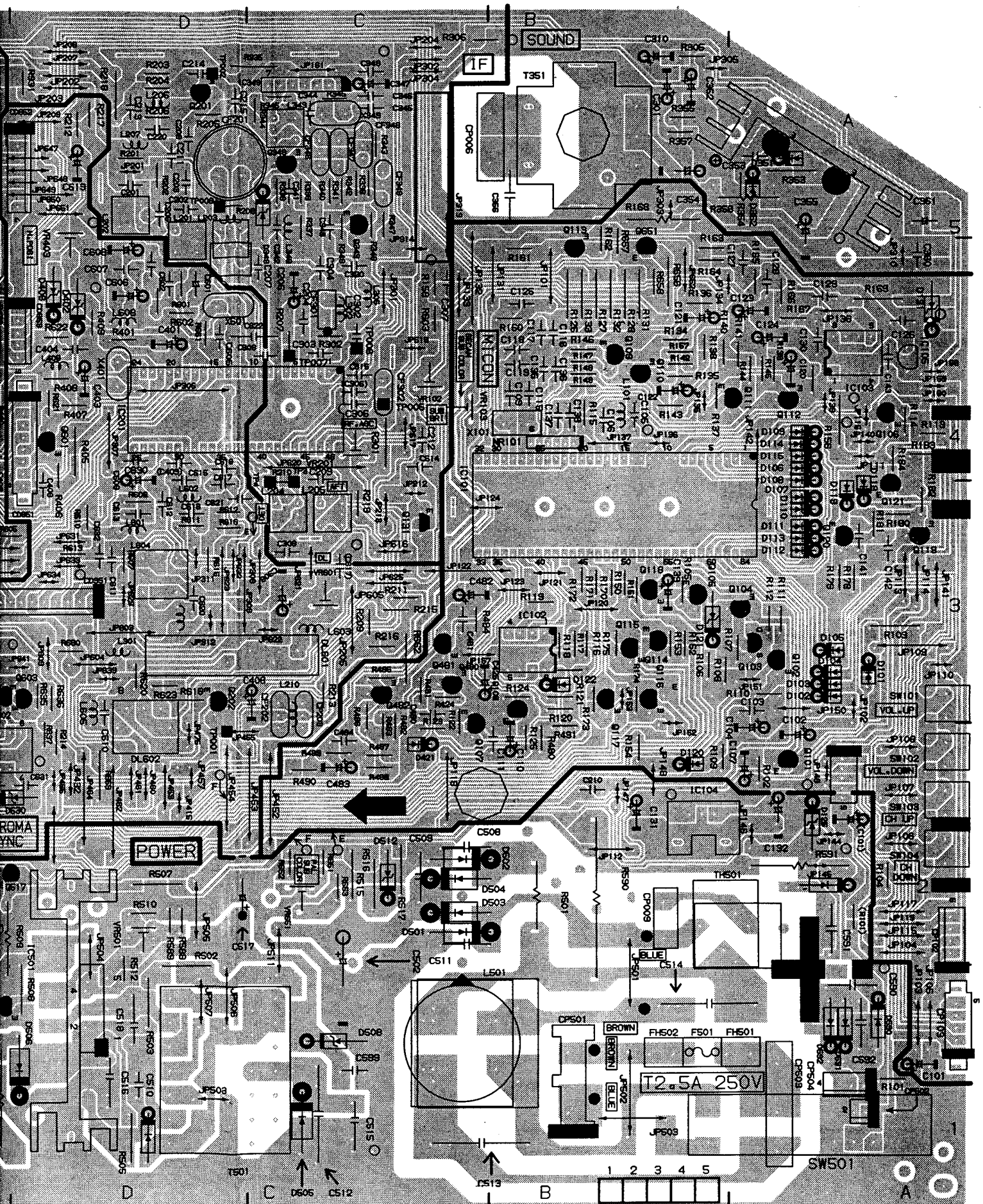
PRINTED CIRCUIT BOARD

MAIN



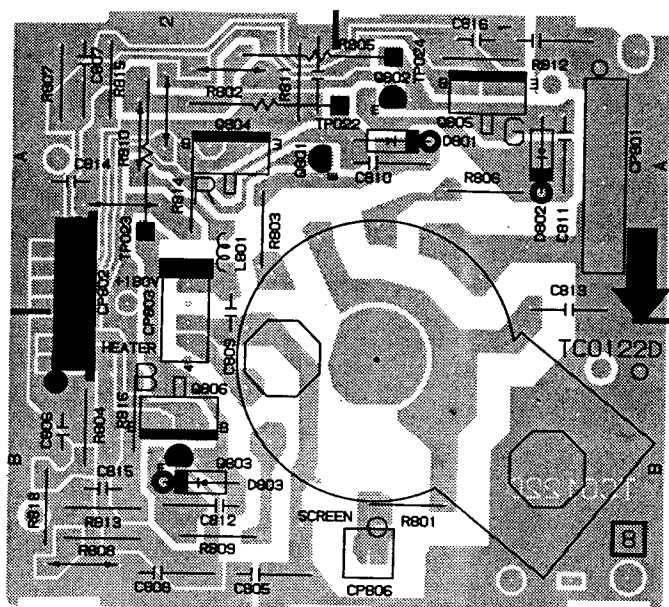
PRINTED CIRCUIT BOARD

MAIN

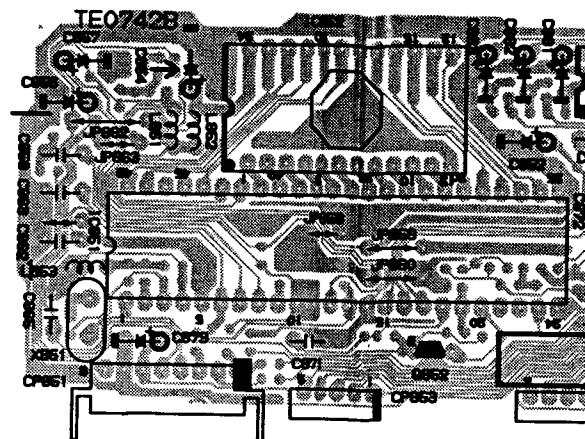


PRINTED CIRCUIT BOARDS

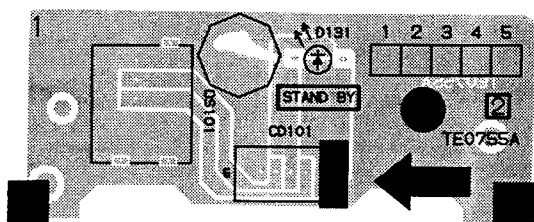
CRT



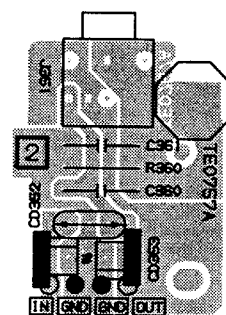
COMPONENT SIDE



REMOCON



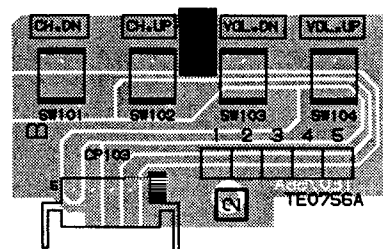
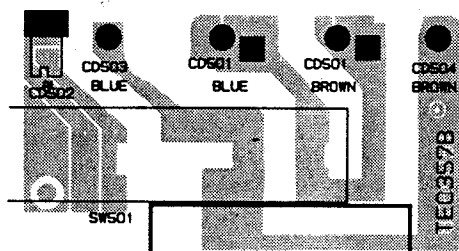
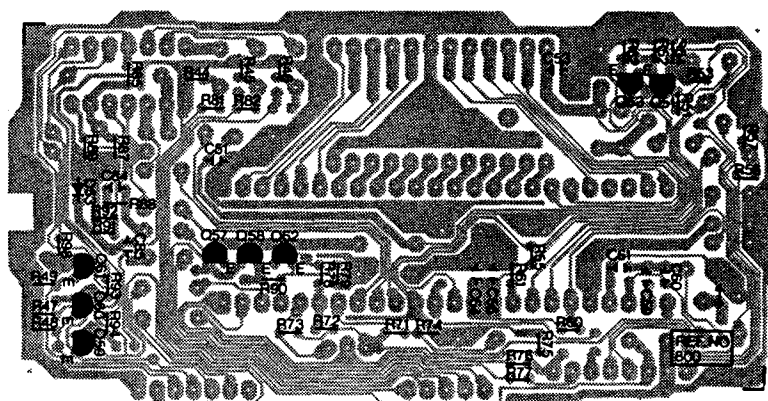
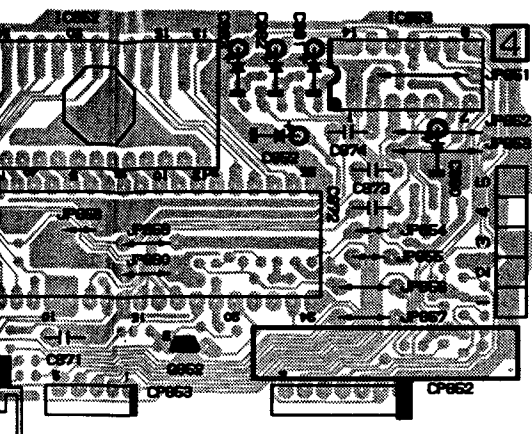
EARPHONE JACK



JACK

POWER SWITCH

CONTROL



PRINTED CIRCUIT BOARDS

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NOTE

PIECES REPARÉES PAR UN ÉTANT
DÉREUSES AU POINT DE VUE SÉCURITÉ
UTILISER QUE CELLES DÉCRITES
DANS LA NOMENCLATURE DES PIÈCES.



1-11951

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Kešinci, 31402 Semeljci

031-856-139

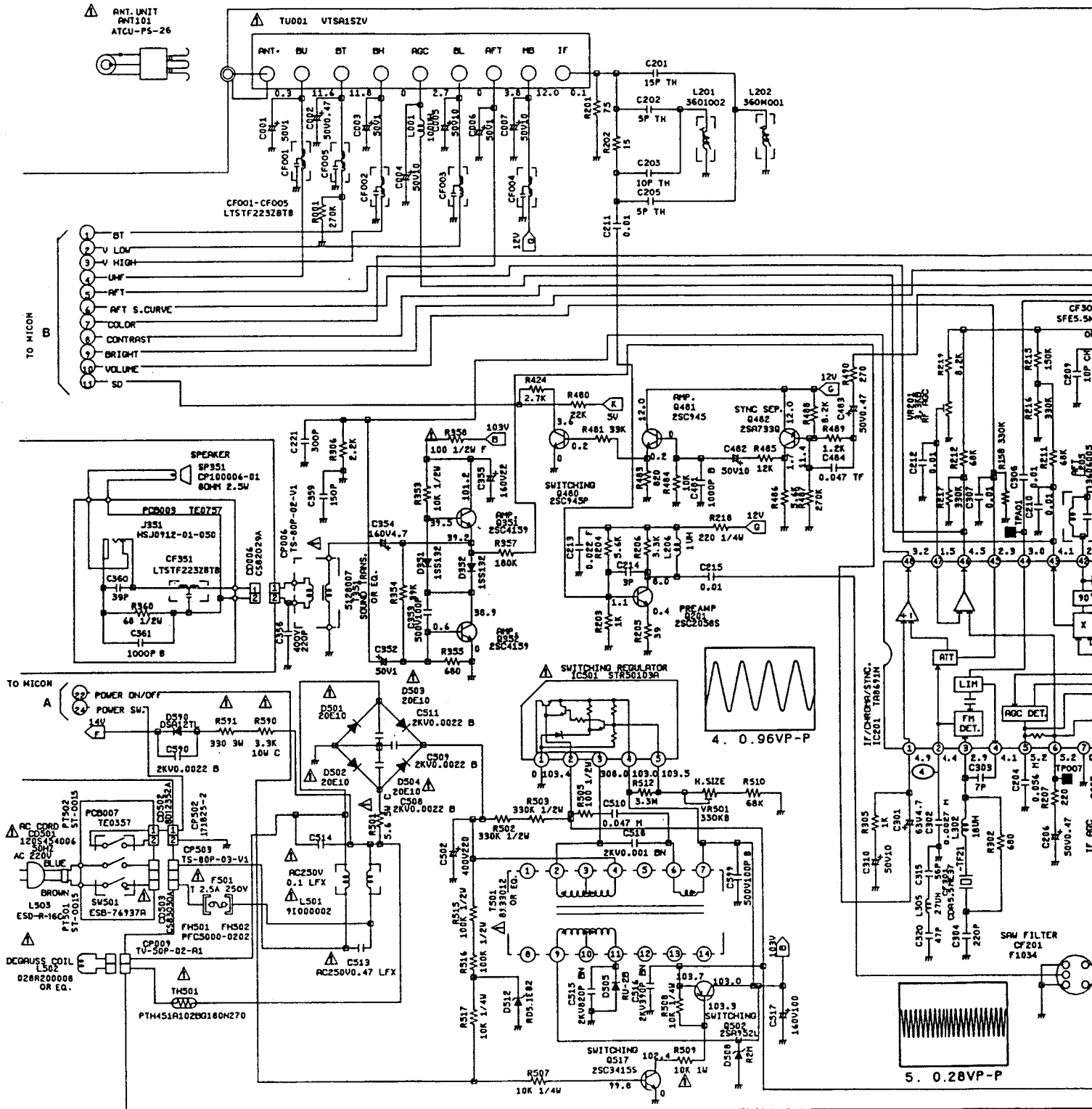
031-856-637

098-788-319

rtv-servis-horvat@os.tel.hr

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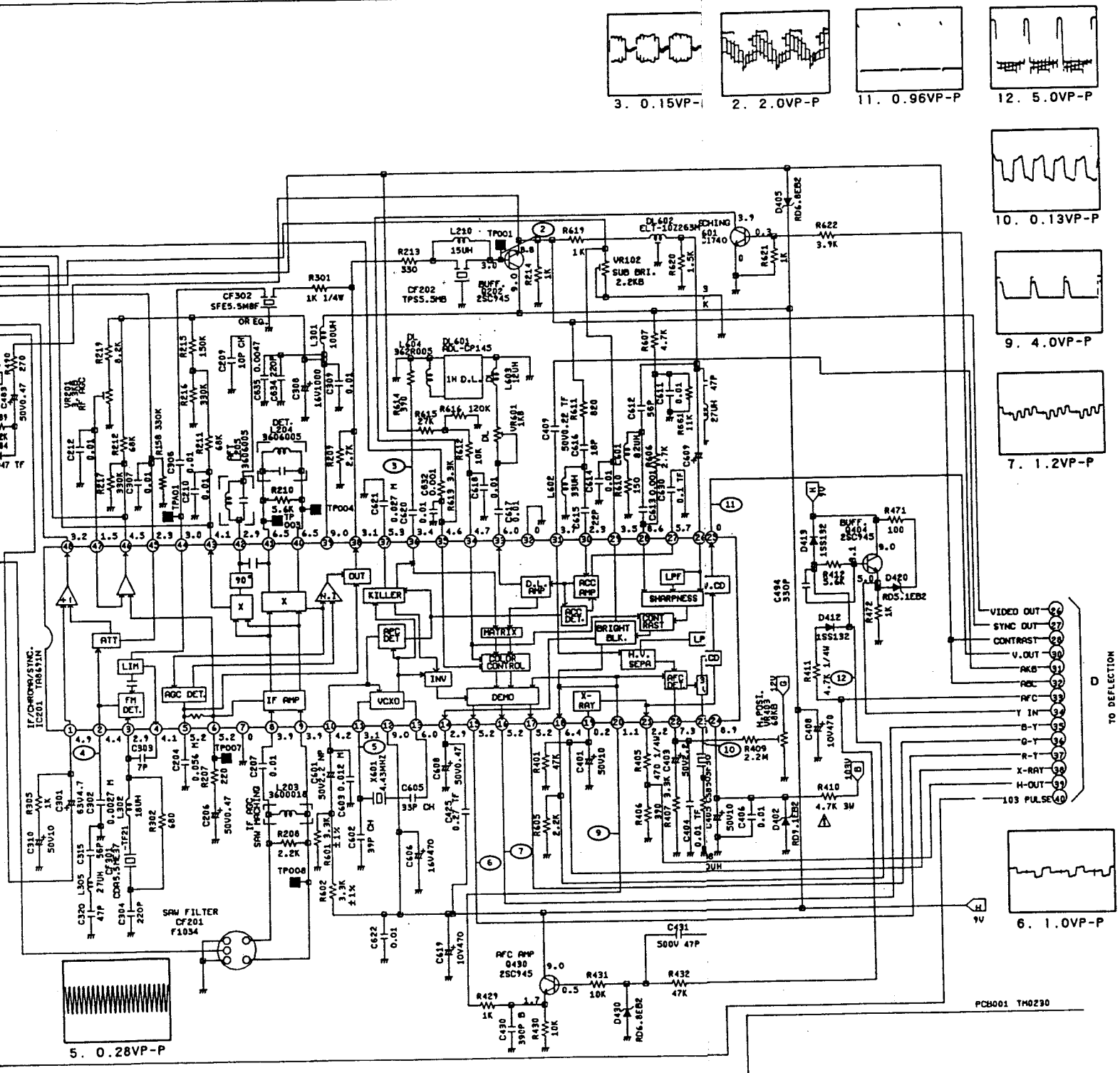
IF/CHROMA/POWER/AUDIO SCH



CAUTION: SINCE THESE PARTS MARKED BY Δ ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED ON PARTS LIST ONLY.

ATTENTION: LES PIÉCES REPAREES PAR UN Δ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLES DECRITES DANS LA NOMENCLATURE DES PIÉCES.

POWER/AUDIO SCHEMATIC DIAGRAM



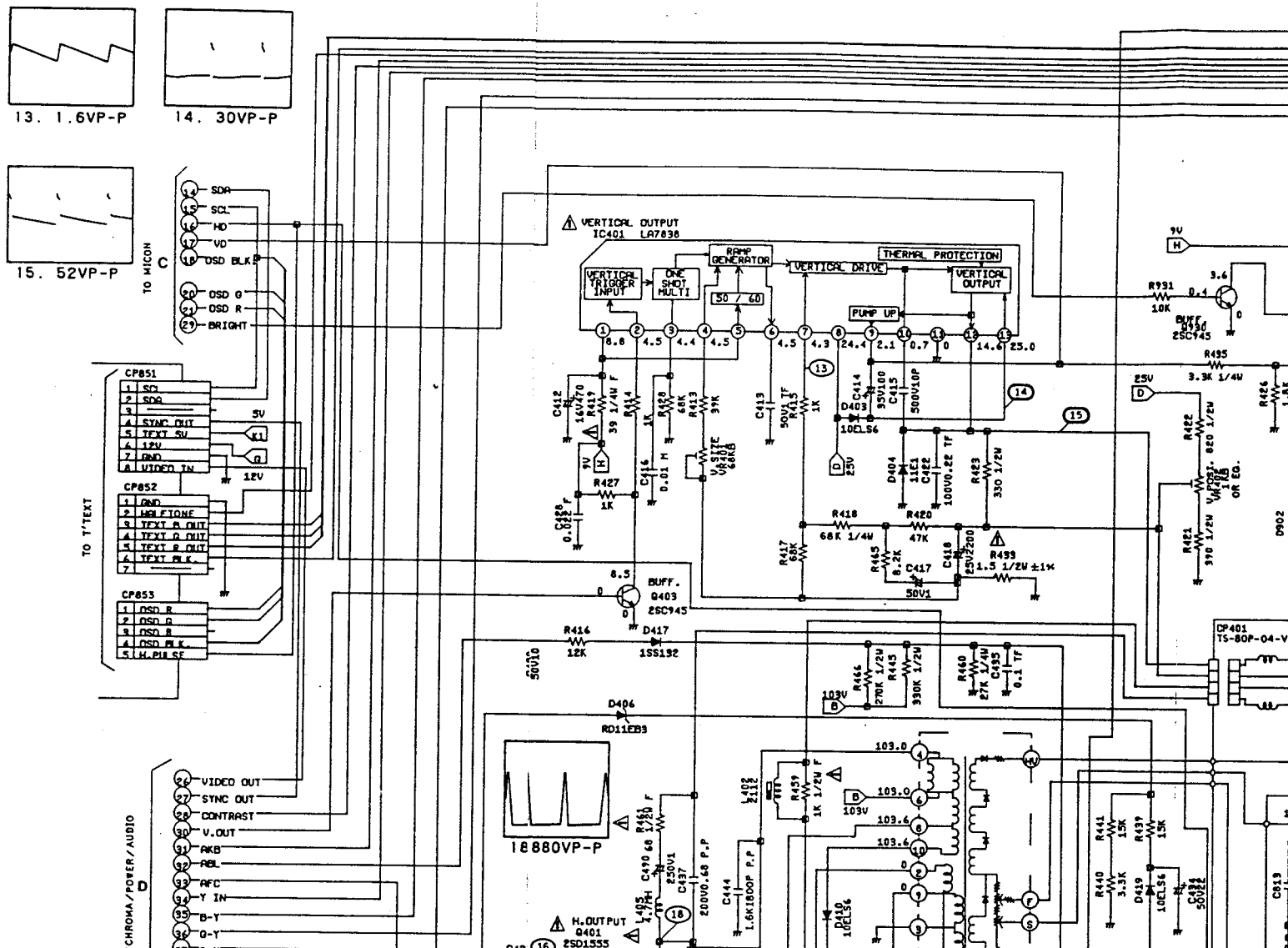
ATTENTION: LES PIECES REPARÉES PAR UN  ÉTANT DANGEREUSES AU POINT DE VUE SÉCURITÉ N'UTILISER QUE CELLES DÉCRITES DANS LA NOMENCLATURE DES PIÈCES.

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

IF/CHROMA/POWER/AUDIO SCHEMATIC DIAGRAM

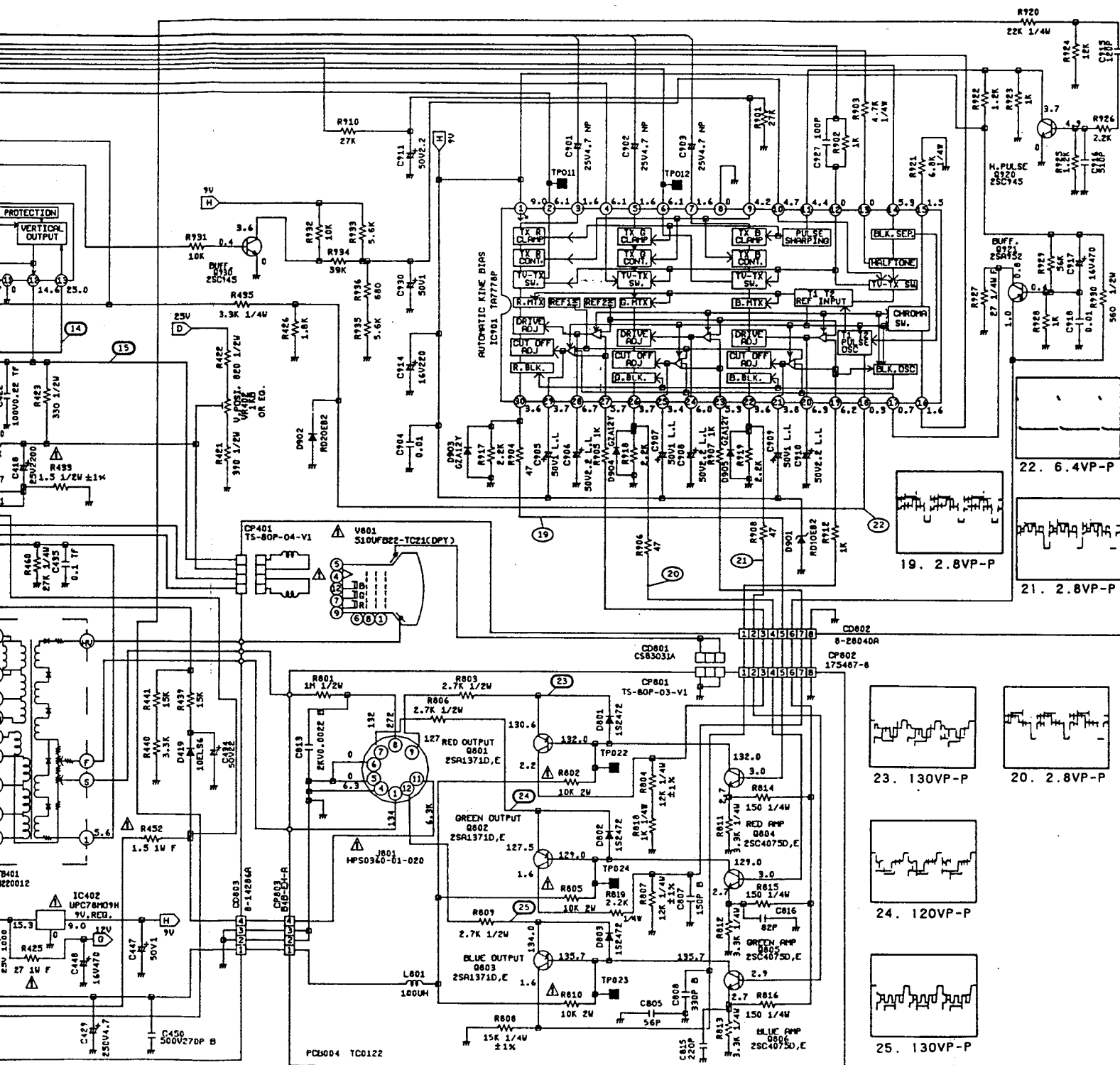
1-11952

DEFLECTION SCHEMATIC DIA



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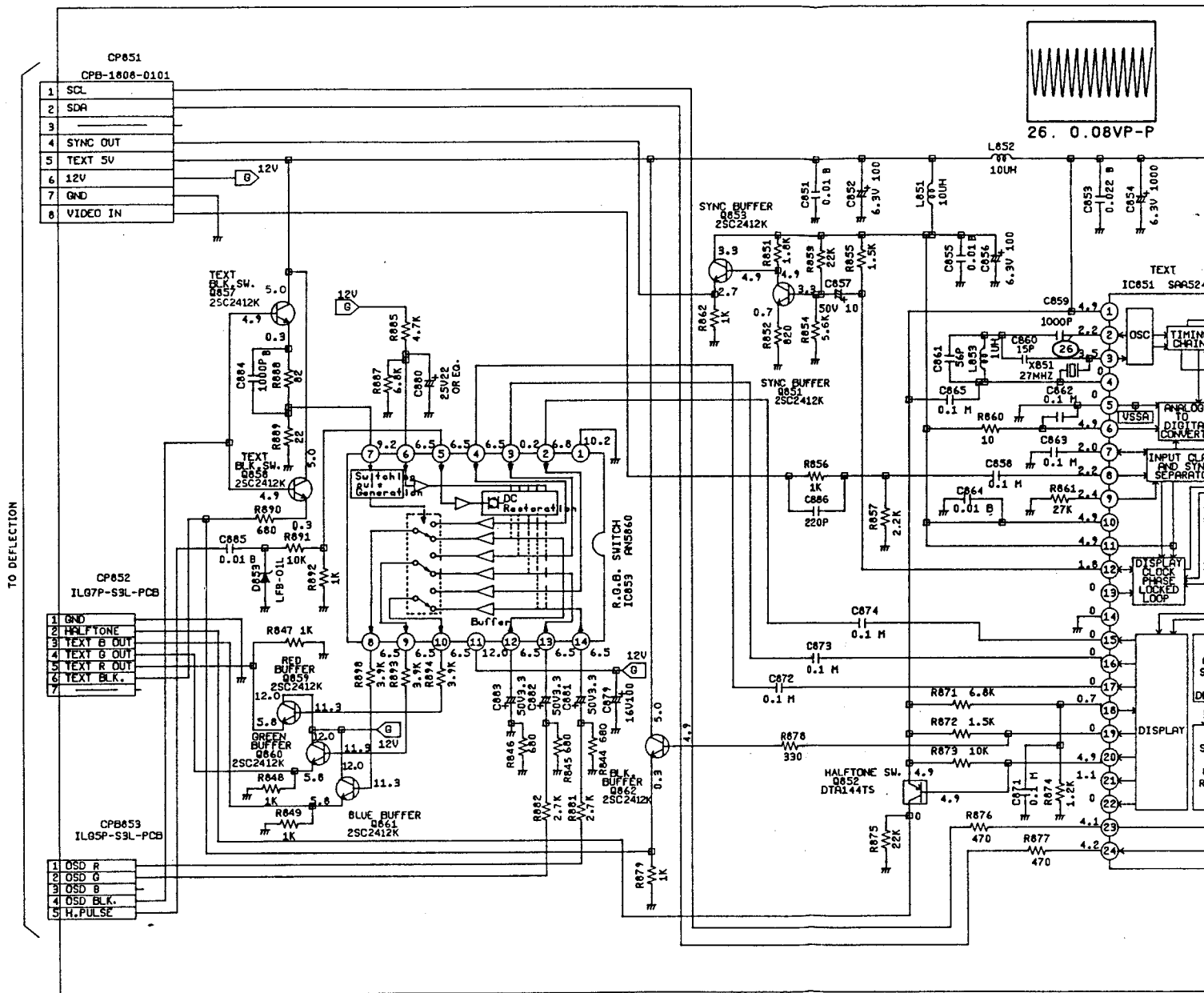
DEFLECTION SCHEMATIC DIAGRAM



ON: LES PIÉCES RÉPARÉES PAR UN Δ ÉTANT DANGEREUSES EN POINT DE VUE SÉCURITÉ N'UTILISER QUE CELLES DÉCRITES DANS LA NOMÉNCLATURE DES PIÉCES.

DEFLECTION SCHEMATIC DIAGRAM

T' TEXT SCHEMATIC DIAGRAM



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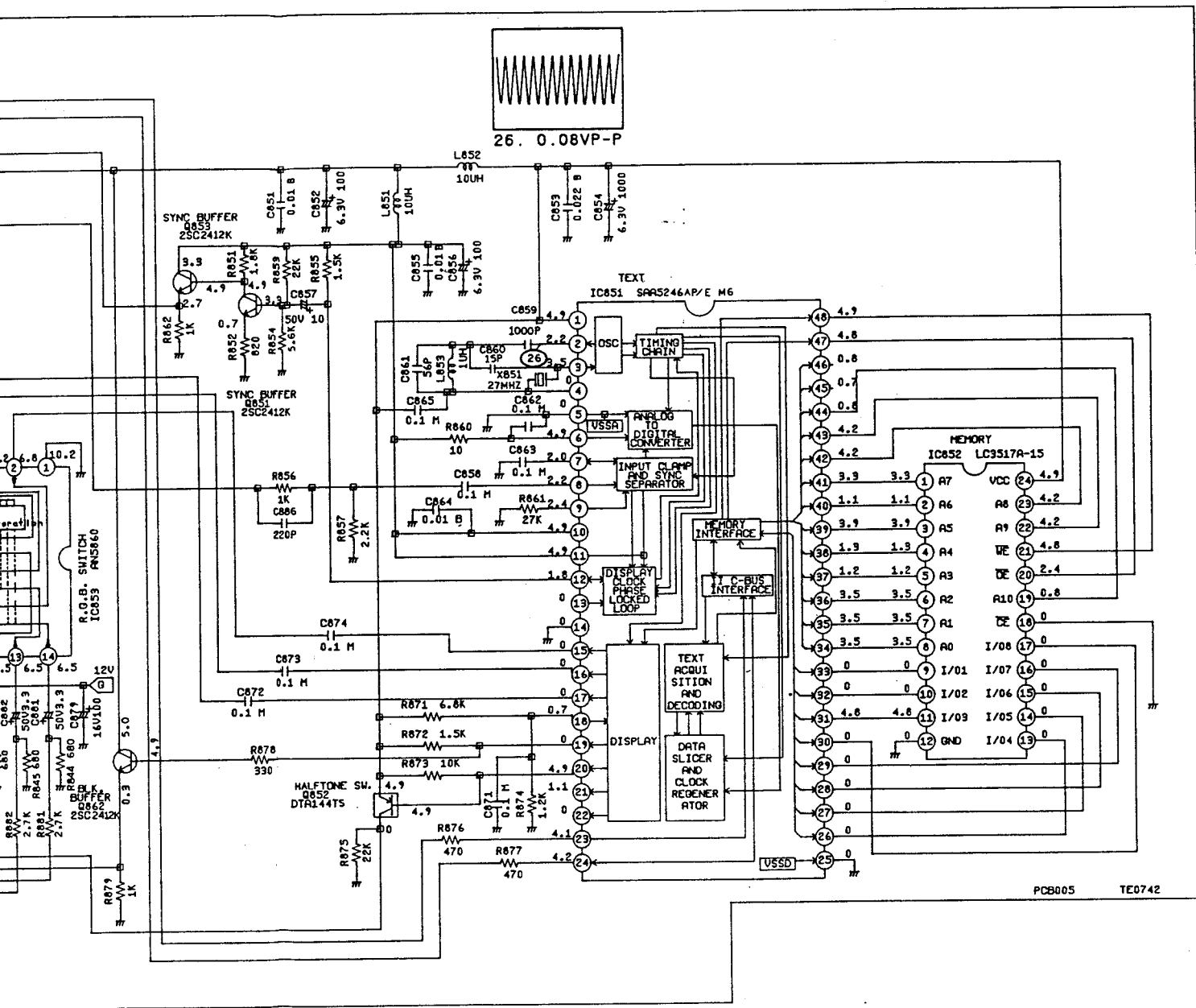
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NOTE: THIS SCHEMA
OF PRINTING

T'TEXT SCHEMATIC DIAGRAM



NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

T'TEXT SCHEMATIC DIAGRAM

1-11940

MECHANICAL REPLACEMENT PARTS LIST

REF.NO	PART NO	DESCRIPTION
101	A36957B720	CABINET.FRONT ASS'Y
	701WPB0019	CABINET.FRONT
	711WPD0036	PLATE.FRONT
	7220000893	SHEET.PTB
	7230004475	SHEET.LED
	7230004607	SHEET.OPERATION
	7232020360	PLATE.BRAND
	7240000927	SHEET.WARNING
	735TPA0192	BUTTON.PUSH
102	712WPD0029	DOOR
103	752SSA0008	SHIELD.IC
104	735WPA0112	BUTTON.POWER
105	702WPA0050	CABINET.BACK
	7222021488	SHEET.RATING
106	762WSA0011	ANGLE.CRT
107	800SR00002	SHEET.CRT SUPPORT
108	741SUA0001	SPRING.EARTH
109	756TPA0001	HOLDER.OPERATION PCB
110	755SRA0001	PLATE.ANTENNA
111	749KUA0002	SPRING.ANTENA
112	761TPA0011	HOLDER.FRONT PCB
113	761TPA0008	HOLDER.PCB(R)
114	761TPA0007	HOLDER.PCB(L)
115	762TSA0025	ANGLE.FRAME PCB
116	752SSA0005	SHIELD CASE
117	752SSA0006	SHIELD LID
118	752SSA0007	PLATE.SHIELD
201	8110630804	SCREW.TAP TITE(P) BRAZIER 3*8
202	8117540A64	SCREW.TAPRING(B0) TRUSS 4*16
203	8110240B04	SCREW.TAP TITE(P) BIND 4*20
204	8117E30A04	SCREW.TAPPING(B0) WH10 3*10
205	8300560004	SL NUT M6
206	8107630604	SCREW.TAP TITE(S) BRAZIER 3*6
---	J1080102	GUARANTEE CARD
---	J3695701	INSTRUCTION BOOK
---	J3695703	SCHEMATIC DIAGRAM
---	759WPA0004	HOLDER.ANODE LEAD
---	791SHA0031	LAMIFILM.BAG
---	792WHA0044	PACKAGE.TOP
---	792WHA0045	PACKAGE.BOTTOM
---	793WCD0333	GIFT BOX
---	795WHA0005	PAD.STYROFOAM

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ELECTRICAL REPLACEMENT PARTS LIST

REF.NO	PART NO	DESCRIPTION	REF.NO	PART NO	DESCRIPTION
SEMICONDUCTORS (CONT)			MISCELLANEOUS (CONT)		
Q861	T8YA2412K0	TRANSISTOR.SILICON 2SC2412KT147	CF002	116F3TH4Z1	FILTER.EMI LTSTF223ZBTB
Q862	T8YA2412K0	TRANSISTOR.SILICON 2SC2412KT147	CF003	116F3TH4Z1	FILTER.EMI LTSTF223ZBTB
Q920	TCLT009450	TRANSISTOR.SILICON 2SC945A(C)-T	CF004	116F3TH4Z1	FILTER.EMI LTSTF223ZBTB
Q921	TALT00952L	TRANSISTOR.SILICON 2SA952(C)-T L	CF005	116F3TH4Z1	FILTER.EMI LTSTF223ZBTB
Q930	TCLT009450	TRANSISTOR.SILICON 2SC945A(C)-T	CF201	1027038R91	FILTER.SAW F1034
COILS & TRANSFORMERS			CF202	1012105R51	FILTER.CERAMIC TRAP TP55.5MB
L001	021JA6101K	COIL 100 UH	CF301	101215R506	FILTER.CERAMIC DIS.CDA5.5ME37-TF21
L101	021JA6560K	COIL 56 UH	CF302	1012005R53	FILTER.CERAMIC SFE5.5MBF
L201	033601002G	COIL.DET 3601002	CF351	116F3TH4Z1	FILTER.EMI LTSTF223ZBTB
L202	03360M001N	COIL.TRAP 360M001	CP006	069W320018	CONNECTOR PCB SIDE TS-80P-02-V1
L203	0336000018G	COIL.VIDEO IFT 3600018	CP009	069W420029	CONNECTOR PCB SIDE TV-50P-02-A1
L204	033606005N	COIL.VIDEO IFT 3606005	CP101	0694250129	CONNECTOR PCB SIDE 173981-5
L205	033606005N	COIL.VIDEO IFT 3606005	CP103	069Q150179	CONNECTOR PCB SIDE CPB1805-0101
L206	021JA61R0M	COIL 1.0 UH	CP401	069W340018	CONNECTOR PCB SIDE TS-80P-04-V1
L210	021JA6150K	COIL 15 UH	CP502	0694120099	CONNECTOR PCB SIDE 171825-2
L301	021JA6101K	COIL 100 UH	CP503	069W330018	CONNECTOR PCB SIDE TS-80P-03-V1
L302	021JA6180K	COIL 18 UH	CP801	069W330018	CONNECTOR PCB SIDE TS-80P-03-V1
L305	021JA6270K	COIL 27 UH	CP802	0694280369	CONNECTOR PCB SIDE 175487-8
L402	022R000012	COIL.LINEARITY ELH-5L177M	CP803	069X140199	CONNECTOR PCB SIDE B4B-EH-A
L405	021679472K	COIL 4.7 MH	CP851	069Q180179	CONNECTOR PCB SIDE CPB1808-0101
L406	021JA6101K	COIL 100 UH	CP852	069H170209	CONNECTOR PCB SIDE ILG7P-S3L-PCB-S
L501	0291000002	COIL.LINE FILTER 91000002	CP853	069H150209	CONNECTOR PCB SIDE ILG5P-S3L-PCB-S
L502	028R200008	COIL.DEGAUSS 8R200008	DL601	104A14R43F	DELAY LINE GLASS ADL-CP145
L503	02AXA509C1	FILTER.LINE ESD-R-16C	DL602	103S0R2802	DELAY LINE ELT-10Z263M
L601	021JA6820K	COIL 82 UH	EAR351	074N130007	EARPHONE SE100-335
L602	021JA6330K	COIL 33 UH	F501	080PT2R502	FUSE T 2.5A 250V
L603	021JA6120K	COIL 12 UH	FB401	043220012A	TRANSFORMER FLYBACK 3220012
L604	03362R005N	COIL.CHROMA 362R005	FH501	06760T0001	HOLDER.FUSE PFC5000-0202
L605	021JA6270K	COIL 27 UH	FH502	06760T0001	HOLDER.FUSE PFC5000-0202
L801	021673101K	COIL 100 UH	MS501	1283200020	SILICON.SHEET 3200020
L851	021JA6100K	COIL 10 UH	NR101	1102510302	R.NETWORK RGLE5X103J
L852	021JA6100K	COIL 10 UH	OS101	0779010004	REMOTE RECEIVER GP-1U581X
L853	021JA61R0M	COIL 1 UH	PT501	126C000002	TERMINAL.PIN ST-0015
T351	045128007U	TRANS..SOUND OUTPUT 5128007	PT502	126C000002	TERMINAL.PIN ST-0015
T401	03305Y002G	TRANS..HORIZONTAL DRIVE 305Y002	S001	128F100003	SPACER BUSH-M
T501	048133012W	TRANSFORMER.SWITCHING 8133012	SP351	070R143005	SPEAKER CP100006-01
JACKS			TH501	D8R0A180NG	DEGAUSS ELE. PTH451A1028G180N270
J351	0602101004	JACK.RCA 3.5 HSJ0912-01-050	TM101	076G047070	TRANSMITTER EUR-531161
J801	0662130007	SOCKET.CRT HPS0360-01-020	TU001	0145P11004	TUNER.UHF-VHF VTS1A1SZV
SWITCHES			V801	098G200438	C.PICTURE TUBE 510UFB22-TC21(DPY)
SW101	0504R01T20	SWITCH.TACT EVQ11405K	X101	100WA8R003	CRYSTAL HC-49/U 8.00MHZ
SW102	0504R01T20	SWITCH.TACT EVQ11405K	X401	1002R01502	CERAMIC OSCILLATOR CSB503F30
SW103	0504R01T20	SWITCH.TACT EVQ11405K	X601	10064R4382	CRYSTAL HC-49/U 4.43361875MHZ
SW104	0504R01T20	SWITCH.TACT EVQ11405K	X851	100CA02702	CRYSTAL HC-49/U 27.0MHZ
SW501	0530102008	SWITCH.PUSH ESB-76937A	RESISTOR		
VARIABLE RESISTORS			RC.....CARBON RESISTOR		
VR102	V1H63H3BT6	VR.SEMIFIXED EVNDXAA03BE3	CAPACITORS		
VR103	V1263H4801	VR.SEMIFIXED RH0615CJ4J0D	CC.....	CERAMIC CAPACITOR	
VR201	V1163L3BT6	VR.SEMIFIXED EVNDXAA03BY3	CE.....	ALUMI ELECTROLYTIC CAPACITOR	
VR401	V1263U4BT7	VR.SEMIFIXED RH0683CW4R04A	CP.....	POLYESTER CAPACITOR	
VR402	V115213BF2	VR.SEMIFIXED EVMKOGA00B13	CPP.....	POLYPROPYLENE CAPACITOR	
VR403	V1163U4BT6	VR.SEMIFIXED EVNDXAA03BS4	CPL.....	PLASTIC CAPACITOR	
VR501	V1163L5BT6	VR.SEMIFIXED EVNDXAA03BY5	CMP.....	METAL POLYESTER CAPACITOR	
VR601	V1163L3BT6	VR.SEMIFIXED EVNDXAA03B13	CMPL.....	METAL PLASTIC CAPACITOR	
P.C. BOARD ASSEMBLIES			CMPP.....	METAL POLYPROPYLENE CAPACITOR	
PCB001	A36921B01DC	PCB ASS'Y TM0230-C	CST.....	STYROL CAPACITOR	
PCB002	A36957B13A	PCB ASS'Y TE0755	INTERCHANGEABLE PARTS LIST		
PCB003	A36921B27B	PCB ASS'Y TE0757	NOTE:THE FOLLOWING PART(S) MAY BE SUBSTITUTED		
PCB004	A36921B11C	PCB ASS'Y TC0122	FOR PARTS INDICATED IN THE BASIC PART(S) LIST		
PCB005	A36921B15B	PCB ASS'Y TE0742	(WITH THE SAME REF.NO.). THESE PARTS SHARE		
PCB007	A36921B34A	PCB ASS'Y TE0357	THE SAME ELECTRICAL CHARACTERISTICS AND OTHER		
PCB009	A36921B03B	PCB ASS'Y TE0756	ELEMENTS FOR COMMON USAGE.		
MISCELLANEOUS			EITHER PART NUMBER MAY BE USED IN THIS UNIT.		
ANT101	0637300013	ANT.UNIT ATCU-PS-26	REF.NO	DESCRIPTION	DESCRIPTION
B402	024JT03551	CORE.BEADS FBA04HA450AB-00		(PART NO)	(PART NO)
BT101	141T004005	BATTERY.MANGAN UM-4	C880	22 UF 25V (E01PT3220M)	22 UF 35V (E01PT4220M)
BT102	141T004005	BATTERY.MANGAN UM-4	CF302	SFE5.5MBF (1012005R53)	SFE5.5MB (1012005R51)
CD006	06CS82029A	CORD.CONNECTOR CS82029A	Δ L502	8R200008 (028R200008)	8Q200008 (028Q200008)
CD101	068325065A	CORD.CONNECTOR 8325065A	Δ T501	8133012 (048133012W)	8133012 (048133012G)
CD501	120S454006	CORD.AC BUSH 120S454006	VR402	EVMKOGA00B13 (V115213BF2)	TM8KH-1S-B1KOHM (V145C13804)
CD502	068D12352A	CORD.CONNECTOR 8D12352A			
CD503	06CS83030A	CORD.CONNECTOR CS83030A			
CD801	06CS83031A	CORD.CONNECTOR CS83031A			
CD802	068128040A	CORD.CONNECTOR 8-28040A			
CD803	068M14286A	CORD.CONNECTOR 8-14286A			
CF001	116F3TH4Z1	FILTER.EMI LTSTF223ZBTB			