



Colour Television Service Manual

28R2

CE28R2-C (W.Europe)

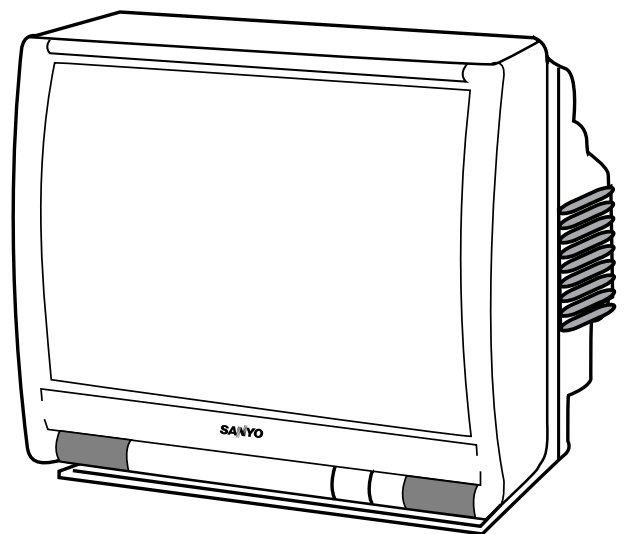
Service Ref. No. CE28R2-C-00

PRODUCT CODE: 1113 28004
ORIGINAL VERSION: Chassis No. EB4-A

Note

This TV receiver will not work properly in foreign countries where the television transmission system and power source differ from the design specifications. Refer to the specifications for the design specifications

Give complete "SERVICE REF. NO." for parts order or servicing, it is shown on the rating sheet on the cabinet back of the TV set.



Specifications

Power source	AC 220~240V 50Hz
Television system	System B/G
Colour system	PAL
Receiving channel	VHF: E2-E12 CATV: X, Y, Z, S1-S41 UHF: #21~69
Aerial input impedance	75ohm
AV terminal	
21 Pin socket	CENELEC standard
Sound output(Music)	12 watts X2
Picture tube	70cm diagonal, 110 degree
(Visible picture diagonal)	66cm
Dimensions (WxHxD)	628 x 569 x 473 mm
Weight	30.4 Kg

SAFETY PRECAUTION

- 1: An isolation transformer should be connected in the power line between the receiver and the AC line when a service is performed on the primary of the converter transformer of the set.
- 2: Comply with all caution and safety-related notes provided on the cabinet back, inside the cabinet, on the chassis or the picture tube.
- 3: When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as, control knobs, adjustment covers or shields, barriers, isolation resistor-capacitor networks etc. Before returning any television to the customer, the service technician must be sure that it is completely safe to operate without danger of electrical shock.

X-RADIATION PRECAUTION

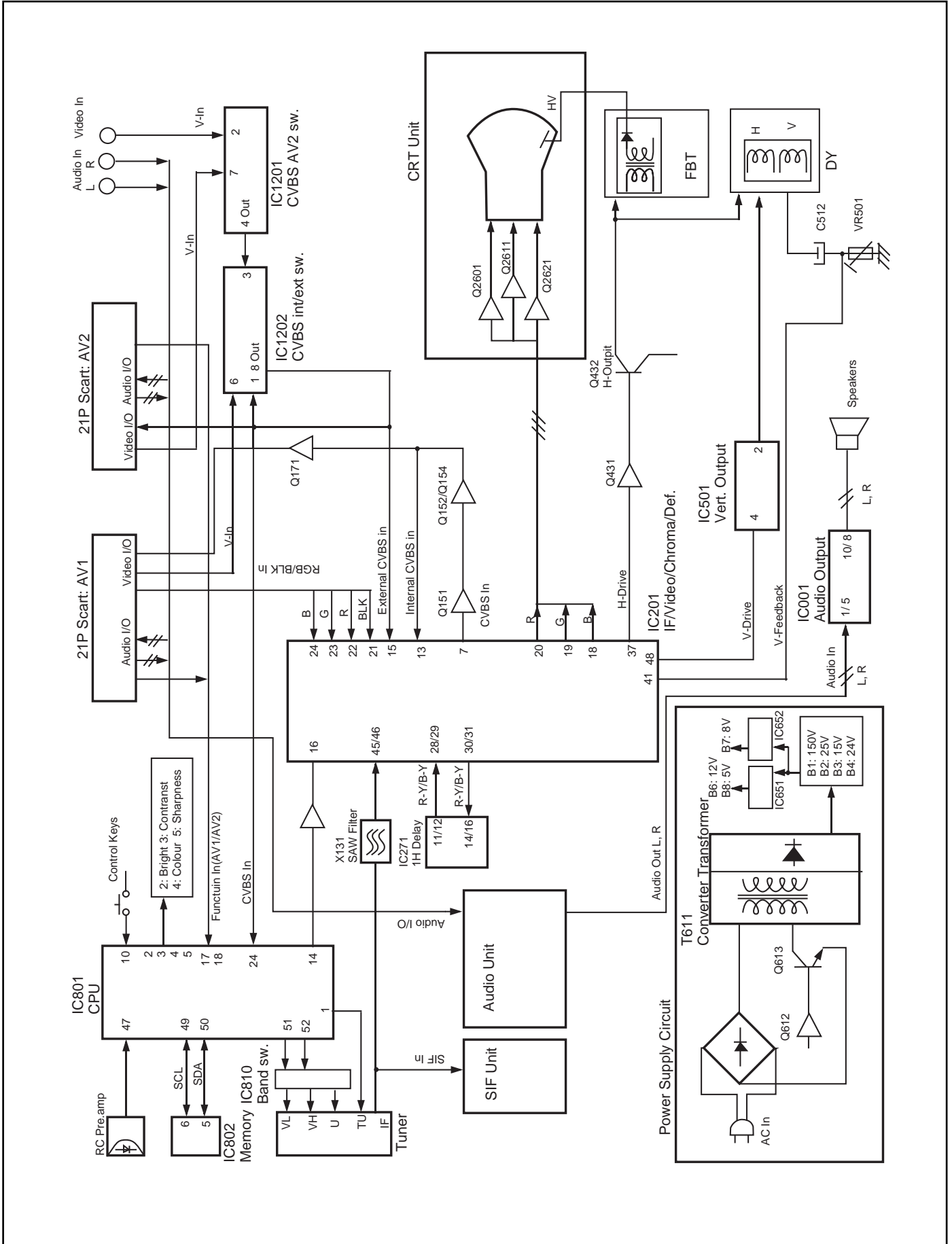
The primary source of X-RADIATION in the television receiver is the picture tube. The picture tube is specially constructed to limit X-RADIATION emissions. For continued X-RADIATION protection, the replacement tube must be the same type as the original including suffix letter. Excessive high voltage may produce potentially hazardous X-RADIATION. To avoid such hazards, the high voltage must be maintained within specified limit. Refer to this service manual, high voltage adjustment for specific high voltage limit. If high voltage exceeds specified limits, take necessary corrective action. Carefully follow the instructions for +B1 volt power supply adjustment, and high voltage adjustment to maintain the high voltage within the specified limits.

PRODUCT SAFETY NOTICE

Product safety should be considered when a component replacement is made in any area of a receiver. Components indicated by mark ! in the parts list and the schematic diagram designate components in which safety can be of special significance. It is particularly recommended that only parts designated on the parts list in this manual be used for component replacement designated by mark ! . No deviations from resistance wattage or voltage ratings may be made for replacement items designated by mark ! .

BLOCK DIAGRAM

This is a diagram for all models and therefore differs slightly from the actual block diagram.



CIRCUIT DESCRIPTION

1. POWER SUPPLY

The power supply circuit of the EB4-A chassis is composed of a rectifier smoothing circuit, an oscillation circuit, a control circuit and an output rectifier circuit. The AC input voltage is full-wave rectified by the rectifier smoothing circuit, and an unstable DC voltage is generated at both terminals of the smoothing capacitor C607. This voltage is input to the oscillation circuit. The oscillation circuit is provided with a blocking oscillator circuit that switches the switching transistor Q613 ON and OFF, and an oscillation frequency and a duty square wave pulse are generated in the input windings according to operation of the control circuit. A square-wave pulse whose size is dependent on the turn ratio of the input and output windings is obtained in the output winding. This is rectified in the output rectifier circuit, and the desired DC voltage is obtained.

2. IF & DEFLECTION (TDA8361)

The IF output signal from the tuner passes through the SAW filter, and it is input to pin45 and pin46 of IC201. The signal input to the IC passes through the IF amplifier, video detection and video amplifier circuits and is output from pin7 as a composite video signal. And after this signal is converted to impedance at Q151, supplies to the video and chroma amplifier stages.

The sync.-separation circuit separates the video signals applied to pin13(internal video signal) or pin15(external video signal) to vertical- and horizontal-sync. signals respectively. The horizontal oscillator requires no external components and is fully integrated. The oscillator is always running when the start-pin36 is supplied with 8V. Horizontal drive signal is output from pin37. VR361 is for adjustment of the horizontal centring. The separated vertical-sync. signal from sync. separation circuit passes through the vertical-separation circuit, and applied to trigger divider circuit. The horizontal oscillation pulse and input vertical sync. pulse are monitored by the trigger divider circuit, and switching 50Hz and 60Hz system, the vertical amplitude automatically adjusted for 50Hz and 60Hz. The output signal from the trigger divider is triggered vertical oscillation circuit consisting of C351, R352 and pin42, and vertical drive pulse is output from pin43. VR501 is for changing the amount of AC feedback applied to pin41 and for adjustment of the vertical amplitude.

3. VIDEO CHROMA & R.G.B. (TDA8361)

The composite video signal output from the pin7 of IC101 passes through Q151-Q154, and it is supplied to pin13. The external video signal output from SCART is supplied to pin15. The video signal input to pin13 or pin15 is separated to luminance (Y) signal and chroma signal in IC201. These pins are used in common with H/V-sync. separation input. The peaking of Y signal is adjusted by DC voltage of pin14. ("SHARPNESS"

control) The chroma signal is divided into R-Y and B-Y chroma signals, demodulated in IC201, and output from pin30 (R-Y) and pin31 (B-Y). These chroma signals pass through the 1H delay line circuit (IC271), and they are input to pin29 (R-Y) and pin28 (B-Y). These R-Y/B-Y signals pass through RGB matrix circuit and RGB selector circuit of IC101. The internal RGB signals are generated in RGB matrix circuit and the RGB selector, consisting linear amplifiers, clamps and selects either the internal RGB signals or the external RGB signals input from pin22(R), pin23(G), pin24(B). Selection is controlled by the voltage at the RGB switch control (pin21) and mixed RGB modes are possible since RGB switching is fast. The RGB switch also functions as a fast blanking pin by blanking the RGB output stages; here internal and external RGB signals are overruled. The colour gain is controlled by DC voltage of pin26. ("COLOUR" control) The contrast control voltage present at pin25, and the brightness control voltage present at pin17 controls DC level of RGB signals. The RGB signals are finally buffered before being available at the RGB output pins [pin20 (R), pin19 (G), pin18 (R)].

4. AUDIO OUTPUT(TDA7263M)

The audio signals output from the audio unit are input to pin1(L) and 5(R) of IC171 and passes through the pre-amplifier circuit and drive circuit, after which it is input to the audio amplifier. The audio amplifier is an SEPP (single-ended, push-pull) OTL type and output to pin8(R) and 10(L) to directly drive the speakers.

5. VERTICAL OUTPUT (LA7832/LA7832)

An IC (LA7832/LA7833) is used for the vertical output circuit in this chassis. The vertical drive pulse from pin43 of IC201 is input to pin4 of IC501. This pulse drives IC501, and vertical scanning is performed. In the first half of scanning a deflecting current is output from pin2 and passes through the following path:

Vcc(B4) → D501 → pin3 → pin2 → DY → C512 → VR501/R509. An electric charge is then stored in C512. In the last half of scanning the current path is C512 → DY → pin2 → pin1 → VR501/R509 → C512. In this way, an amplifying sawtooth waveform current flows directly to DY to perform electron beam deflection. Next, in the first half of the banking period the vertical drive pulse suddenly becomes OFF, and in order to reduce the current flowing to DY, the current path becomes as follows by the inductance of DY:

DY → pin2 → pin1 → VR501/R509 → C512 → DY. Also, when the charge of DY has dissipated, the current path becomes Vcc24V → pin6 → pin7 → C502 → pin3 → pin2 → DY → C512 → VR501/R509, and when the prescribed current value is reached, the vertical drive pulse becomes ON. This completes one cycle.

6. HORIZONTAL OUTPUT

A horizontal oscillation signal is output from pin37 of IC201 and switches the drive transistor Q431. This switching signal is current amplified by the drive transformer T431 and drives the output transistor Q432. When Q432 becomes ON, an amplifying current flows directly to DY through C441 → DY → Q432 → GND, and deflection is performed in the last half of the scanning period. Next, when Q432 becomes OFF, the charge that had been stored in DY up to that point releases a resonance current to the resonant capacitors C421/C423 and charges them. The current stored in C421/C423 is then flowed back to DY, and an opposite charge is then stored in DY. This opposite charge then switches the dumper diode in Q432 ON, the resonance state is completed, and an amplifying current is then flowed again directly to DY through the dumper diode. By this means, deflection in the first half of the scanning period is performed, and when Q432 becomes ON at the end of the first half of the scanning period, deflection during the last half is begun, thus completing one cycle.

In the PCC circuit consisting of Q461 and Q462, the parabola signal supplied from the vertical circuit is added at the horizontal output stage and pincushion compensation is performed by varying the DC voltage bias. Further, the ABL voltage is feedback to the base of Q462 to compensate for width variations due to variations in the beam current.

Pin25: Black

Pin26: IREF

Pin27: Odd/Even output

Pin28: GND

Pin29: -

Pin30: V-deflection stop output

Pin31: RGB REF

Pin32: Blue output for OSD

Pin33: Green output for OSD

Pin34: Red output for OSD

Pin35: Blanking output for OSD

Pin36: H-sync. input (Horizontal pulse for OSD)

Pin37: V-sync. input (Vertical pulse for OSD)

Pin38~39: Supply (+5V)

Pin 40: OSC GND

Pin 41: Oscillator input for CPU

Pin 42: Oscillator output for CPU

Pin 43: Reset input

Pin 44: Supply (+5V)

Pin 45: Protect signal input (L:Power circuit defects)

Pin 46: Ident. signal input

Pin 47: R/C signal input

Pin 48: Mute output in no picture

Pin 49: I²C bus SCL (Serial clock)

Pin 50: I²C bus SDA (Serial data)

Pin 51: Option SW5 & Band select output1

Pin 52: Band select output2

7. CPU <System and Teletext Control>

Pin description

Pin1: Tuning voltage output

Pin2: Brightness control output (6-bit DAC)

Pin3: Contrast control output (6-bit DAC)

Pin4: Colour control output (6-bit DAC)

Pin5: Sharpness control output(6-bit DAC)

Pin6: Not used (GND)

Pin7: Not used (GND)

Pin8: Power ON/OFF output (H:ON)

Pin9: AFT signal input

Pin10: Option SW1 & Keyboard scan input (DC)

Pin11: Option SW2

Pin12: 50/60Hz switch input (50Hz: Hi)

Pin13: GND

Pin14: TV/AV switch output (TV: Hi)

Pin15: S-VHS switch output (S-VHS: Hi)

Pin16: Option SW3 (2AV: Hi)

Pin17: Function signal input for SCART1

Pin18: Function signal input for SCART2

Pin19: Power LED drive output1

Pin20: Option SW4 & Power LED drive output2

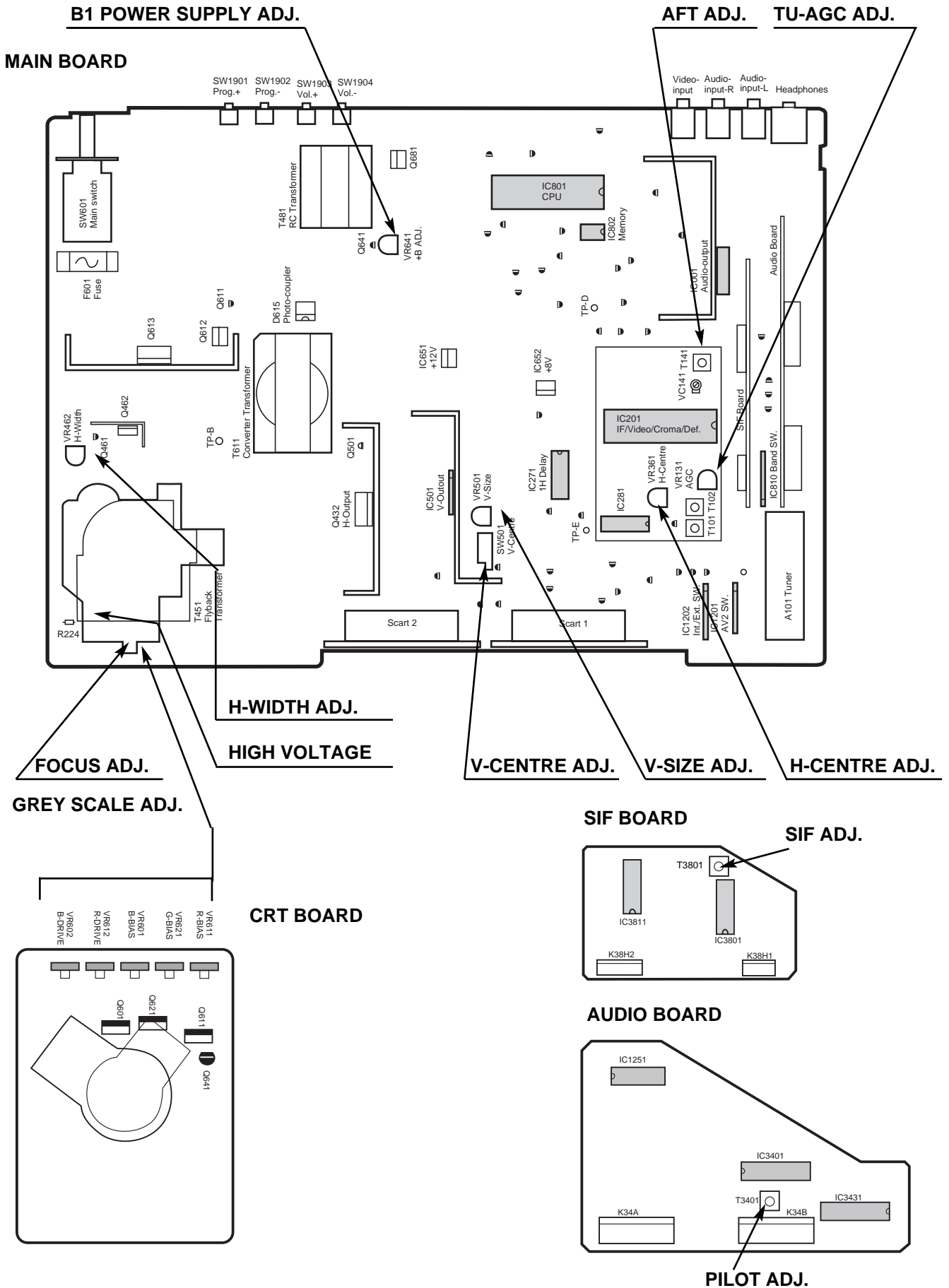
Pin21: Ignore output

Pin22: GND

Pin23: CVBS input0 (Internal)

Pin24: CVBS input1 (Internal/External)

SERVICE CONTROL ADJUSTMENT



B1 POWER SUPPLY ADJUSTMENT

1. Set VR641 to be mechanically centre before pressing the mains ON/OFF switch.
2. Tune the receiver to a PAL circular pattern.
3. Set the brightness and contrast controls to normal.
4. Connect a digital V-meter to test point "TP-B".
5. Using VR641, adjust the voltage to $150 \pm 0.5V$.

AFT ADJUSTMENT

1. Tune the receiver to the clearest station.
2. Using T141, adjust the AFT to obtain the best picture.

AGC ADJUSTMENT

NOTE: Do not attempt this adjustment with a weak signal.

1. Tune the receiver to the clearest station.
2. Set AGC VR(VR131) in direction which causes snow noise just to appear, then in the opposite direction until the snow noise just disappears.

GREY SCALE ADJUSTMENT

[SCREEN VR ADJUSTMENT]

1. Tune the receiver to the white pattern.
2. Set the brightness and contrast controls to normal.
3. Set VR2602 and VR2612 to their mechanical centres.
4. Turn VR2601, VR2611 and VR2621 fully counter-clockwise (anti-clockwise).
5. Set the TV into service mode by pressing the Function button **F** on the Remote control and the Prog + **P** on the TV front panel. Press the Function button **F** on the Remote control until "SCREEN" is highlighted. Then press the **▲** or **▼** on the remote control to adjust the horizontal scanning line.
6. Set screen VR so that one colour is just visible.

[BIAS VR ADJUSTMENT]

7. By using VR2601, VR2611 or VR2621, adjust the line until it becomes white.
8. Set screen mode OFF, by pressing the Recall button **□** on the Remote control.

[DRIVE VR ADJUSTMENT]

9. Using VR2602 and VR2612, adjust white balance.

HIGH VOLTAGE & WIDTH ADJUSTMENT

[HIGH VOLTAGE ADJUSTMENT]

1. Tune the receiver to the circular pattern.
2. Set the brightness and contrast controls to **maximum**.
3. Connect a digital V-meter to both terminals of R224, and a high voltage meter to the CRT anode.
4. Confirm high voltage to be 26.0 ± 1 KV at beam current 1.4, and less than 29.0 KV at 0 beam current.

[H-WIDTH ADJUSTMENT]

5. Adjust VR462 to obtain proper H- width .
6. Reconfirm high voltage.

H-CENTRE ADJUSTMENT

1. Tune the receiver to a circular pattern.
2. Adjust H-centre by using VR361.

V-CENTRE ADJUSTMENT

1. Tune the receiver to a circular pattern.
2. Adjust V-centre by using SW501.

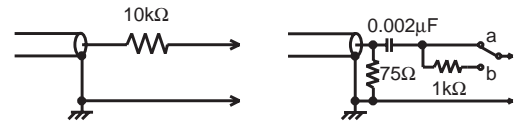
V-SIZE ADJUSTMENT

1. Tune the receiver to a circular pattern.
2. Adjust V-size by using VR501.

FOCUS ADJUSTMENT

By using FOCUS VR, adjust focus control for good scanning lines.

CIRCUIT ALIGNMENT



VIF alignment

Input probe

Output probe

SETTING		Adjustment	Waveform
DC 15.5V AGC voltage (4.3-4.5V) Output probe Input probe Marker frequency Sweep ATT 0dB=176mVrms/75	C644 + IC201-pin48 IC201-pin45 (Side b) IC201-pin7 38.9MHz 20dB	By using T141, adjust "P" to be maximum amplitude.	

SIF alignment

SETTING		Adjustment	Waveform
DC 12V AGC voltage Output probe Input probe Sweep ATT Marker Frequency	IC3801-pin11 IC3801-pin3 IC3801-pin1 (Side b) IC3801-pin12 10dB 38.9MHz	1. Adjust AGC voltage to be "A" = 0.5Vp-p. 2. By using T3801, adjust "P" to be equal centre line.	

Pilot alignment

SETTING		Adjustment	Waveform
Oscilloscope Input sound signal source TV system Deviation Mode	IC3401-pin5 System B/G 27kHz Stereo	By using T3401, adjust amplitude to be maximum.	

INITIALISATION (Important Notice)

When you replace a memory IC (IC802), it is necessary to initialise the IC as following step.

A. Initialisation

Press and hold the **normalisation button** →•← on the remote control handset and press the **programme + button** P▲ on the TV set.

The IC will be initialised automatically and set to the following data.

User control data

Colour : Centre
Brightness : Centre
Contrast : Maximum
Sharpness : Centre
Text. Bright : Centre
Bass : Centre
Treble : Centre
Balance : Centre
Volume : Step 12

Service data

K1	: +000	->	+001
K2	: +000	->	-001
ST ID	: +000		
ATT	: +004		
MAX	: -096	->	-050
MIN	: +010	->	-075

Manual set data

The initialised service data of items K1, K2, MAX and MIN should be modified to the manual set data shown above.
For how to modify, refer to next step.

B. Service Mode

1. To enter the service mode, press and hold the **Function button** F[...] on the remote control handset and press the **programme + button** P▲ on the TV set.

The following OSD appears on the screen.

ADJUST	DATA
K1	+000
K2	-006
ST ID	+000
ATT	+004
MAX	-050
MIN	-075
SCREEN	VOL
CPU Ver	1.0

2. Select the desired service item by using the **Function button** F[...] on the remote control handset.
3. Change the data by using the **Level + or - button** -▲+ .
4. To return to TV mode press the **Recall button** [] [Y] on the remote control handset.

Service mode description

K1, K2 : For adjustment of stereo separation

ST ID : Mode setting for A2 stereo judgement

+000 : Fast mode

+001: Normal mode

+002: Fast -> normal mode

ATT : Attenuation of FM sound

To equalise sound levels between FM and Nicam.

MAX : Setting of sensitivity for switching Nicam to FM mode

MIN : Setting of sensitivity for switching FM to Nicam mode.

SCREEN: For screen adjustment

To make one horizontal scanning line.

NOTE:

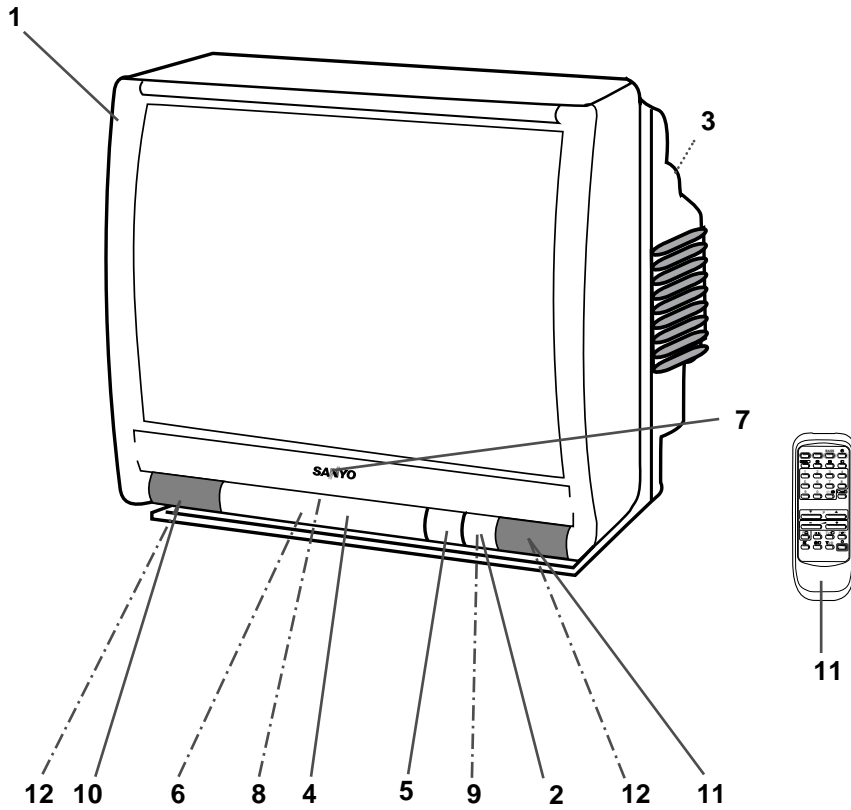
The items K1, K2, ST ID and ATT are invalid adjustments for a model which does not have an A2 stereo decoder.

The items MAX and MIN are invalid adjustments for a model which does not have a Nicam decoder.

These items allow modifications to the set data, but there is no effect in performance.

CABINET PARTS LIST FOR MODELS CE28R2-C-00

Note: Parts order must contain Service Ref. No., Part No., and descriptions.



Item	Part No.	Description
CABINET PARTS		
1	610 270 5218	ASSY, CABINET FR- F4SEM
2	610 270 4945	BUTTON POWER- F4SEM
3	610 262 2089	CABINET BACK- B- E6ZV
4	610 270 4952	DOOR- F4SE
5	610 262 0955	DEC BOARD- E8GWV
6	610 262 7725	DEC CONTROL SHEET- F4PT
7	610 104 6336	BADGE, SANYO- D7PA
8	610 104 2505	LATCH PUSH, 7. 9X6. 9BK
9	610 210 7302	COIL SPRING- D8HA
10	610 258 2123	GRILL SP- L- E6ZR
11	610 258 2130	GRILL SP- R- E6ZR
12	610 241 7692	GRILL CLOTH
ACCESSORIES		
11	JXZB	RC TRANSMITTER
12	SKP10095	INST MANUAL (GB, D)

CHASSIS ELECTRICAL PARTS LIST

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

Note: Parts order must contain Service Ref. No., Part No., and descriptions.

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
<p>Read description in the Capacitor and Resistor as follows:</p> <p>CAPACITOR</p> <p>CERAMIC 100P K 50V</p> <p style="margin-left: 40px;">Rated Voltage</p> <p style="margin-left: 40px;">Tolerance Symbols: Less than 10PF A: Not specified B: ±0.1PF C: ±0.25PF D: ±0.5PF F: ±1PF G: ±2PF R: ±0.25-0PF S: ±0-0.25PF E: +0-1PF More than 10PF A: Not specified B: ±0.1% C: ±0.25% D: ±0.5% F: ±1% G: ±2% H: ±3% J: ±5% K: ±10% L: ±15% M: ±20% N: ±30% P: +100-0% Q: +30-10% T: +50-10% U: +75-10% V: +20-10% W: +100-10% X: +40-20% Y: +150-10% Z: +80-20%</p> <p style="margin-left: 40px;">Rated value: P=pico farad, U=Micro farad</p> <p>Material:</p> <p>CERAMIC..... Ceramic MT-PAPER..... Metallized Paper POLYESTER..... Polyester MT-POLYEST.... Metallized Polyester POLYPRO..... Polypropylene MT-POLYPRO.... Metallized Polypropylene COMPO FILM.... Composite film MT-COMPO..... Metallized Composite STYRENE..... Styrene TA-SOLID..... Tantalum Solid AL-SOLID..... Aluminium Solid ELECT..... Electrolytic NP-ELECT..... Non-polarized Electrolytic OS-SOLID..... Aluminium Solid with Organic Semiconductive Electrolytic DL-ELECT..... Doble Layered Electrolytic</p> <p>RESISTOR</p> <p>CARBON 4.7K J A 1/4W</p> <p style="margin-left: 40px;">Rated Wattage</p> <p style="margin-left: 40px;">Performance Symbols: A: General B: Non flammable Z: Low noise Other: Temperature coefficient</p> <p style="margin-left: 40px;">Tolerance Symbols: A: ±0.05% B: ±0.1% C: ±0.25% D: ±0.5% F: ±1% G: ±2% J: ±5% K: ±10% M: ±20% P: +5-15%</p> <p style="margin-left: 40px;">Rated value, ohms: K: 1,000, M: 1,000,000</p> <p>Material:</p> <p>CARBON..... Carbon MT-FILM..... Metal Film OXIDE-MT..... Oxide Metal Film SOLID..... Composition MT-GLAZE..... Metal Glaze WIRE WOUND... Wire Wound CERAMIC RES.. Ceramic FUSIBLE RES.... Fusible</p>			<h2 style="margin: 0;">Chassis construction</h2> <h3 style="margin: 0;">CE28R2-C-00 (28R2)</h3> <p>ASSY,PWB,MAIN F4SEM 1AA0B10H024D0 (Page 11) ASSY,PWB,SIF F2RT 1AA0B10E230BA (Page 18) ASSY,PWB,AUDIO F2RT 1AA0B10E230BB (Page 18) ASSY,PWB,CRT F2RC 1AA0B10E24500 (Page 19) OUT OF CIRCUIT-F4SEM (Page 19)</p> <hr style="border: 1px solid black;"/> <p>ASSY,PWB,MAIN F4SEM 1AA0B10H024D0</p> <p>TRANSISTOR</p> <p>Q001 406 007 2106 TR JC546A 406 007 2007 TR JC546B 405 019 1909 TR 2SC536- E- NP 405 019 2708 TR 2SC536- F- NP 405 019 3804 TR 2SC536- G- NP</p> <p>Q1001 406 007 1901 TR JC556A 406 007 1802 TR JC556B 405 004 4205 TR 2SA608- E- CTV- NP 405 004 4809 TR 2SA608- F- CTV- NP 405 028 7909 TR 2SA608- G- CTV- NP</p> <p>Q1002 406 007 2106 TR JC546A 406 007 2007 TR JC546B 405 019 1909 TR 2SC536- E- NP 405 019 2708 TR 2SC536- F- NP 405 019 3804 TR 2SC536- G- NP</p> <p>Q1003 406 007 2106 TR JC546A 406 007 2007 TR JC546B 405 019 1909 TR 2SC536- E- NP 405 019 2708 TR 2SC536- F- NP 405 019 3804 TR 2SC536- G- NP</p> <p>Q1004 406 007 2106 TR JC546A 406 007 2007 TR JC546B 405 019 1909 TR 2SC536- E- NP 405 019 2708 TR 2SC536- F- NP 405 019 3804 TR 2SC536- G- NP</p> <p>Q1005 406 007 2106 TR JC546A 406 007 2007 TR JC546B 405 019 1909 TR 2SC536- E- NP 405 019 2708 TR 2SC536- F- NP 405 019 3804 TR 2SC536- G- NP</p> <p>Q1041 406 007 2106 TR JC546A 406 007 2007 TR JC546B 405 019 1909 TR 2SC536- E- NP 405 019 2708 TR 2SC536- F- NP 405 019 3804 TR 2SC536- G- NP</p> <p>Q1042 406 007 1901 TR JC556A 406 007 1802 TR JC556B 405 004 4205 TR 2SA608- E- CTV- NP 405 004 4809 TR 2SA608- F- CTV- NP 405 028 7909 TR 2SA608- G- CTV- NP</p> <p>Q1043 406 007 2106 TR JC546A 406 007 2007 TR JC546B 405 019 1909 TR 2SC536- E- NP</p>		

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description	
Q1201	405 019 2708	TR 2SC536- F- NP	Q501	406 007 2007	TR JC546B	
	405 019 3804	TR 2SC536- G- NP		405 019 1909	TR 2SC536- E- NP	
	406 007 2106	TR JC546A		405 019 2708	TR 2SC536- F- NP	
Q1202	406 007 2007	TR JC546B	Q611	405 019 3804	TR 2SC536- G- NP	
	405 019 1909	TR 2SC536- E- NP		406 007 2106	TR JC546A	
	405 019 2708	TR 2SC536- F- NP		406 007 2007	TR JC546B	
Q1203	405 019 3804	TR 2SC536- G- NP	Q612	405 019 1909	TR 2SC536- E- NP	
	406 007 2106	TR JC546A		405 019 2708	TR 2SC536- F- NP	
	406 007 2007	TR JC546B		405 019 3804	TR 2SC536- G- NP	
Q1204	405 019 1909	TR 2SC536- E- NP	Q613	406 007 1901	TR JC556A	
	405 019 2708	TR 2SC536- F- NP		406 007 1802	TR JC556B	
	405 019 3804	TR 2SC536- G- NP		405 004 4205	TR 2SA608- E- CTV- NP	
Q121	406 007 2106	TR JC546A	Q641	405 004 4809	TR 2SA608- F- CTV- NP	
	406 007 2007	TR JC546B		405 028 7909	TR 2SA608- G- CTV- NP	
	405 019 1909	TR 2SC536- E- NP		405 058 0208	TR 2SC3807- R- CTV- YA	
Q151	405 019 2708	TR 2SC536- F- NP	Q652	405 095 0407	TR 2SC4429- L- YB	
	405 019 3804	TR 2SC536- G- NP		405 095 0308	TR 2SC4429- M- YB	
	406 007 2106	TR JC546A		406 007 2106	TR JC546A	
Q152	406 007 2007	TR JC546B	Q681	406 007 2007	TR JC546B	
	405 019 1909	TR 2SC536- E- NP		405 019 1909	TR 2SC536- E- NP	
	405 019 2708	TR 2SC536- F- NP		405 019 2708	TR 2SC536- F- NP	
Q153	405 019 3804	TR 2SC536- G- NP	Q682	405 019 3804	TR 2SC536- G- NP	
	406 007 1901	TR JC556A		405 023 4903	TR 2SD400- D- MP	
	406 007 1802	TR JC556B		405 023 5009	TR 2SD400- E- MP	
Q154	405 004 4205	TR 2SA608- E- CTV- NP	Q801	405 023 5306	TR 2SD400- F- MP	
	405 004 4809	TR 2SA608- F- CTV- NP		405 059 9804	TR 2SD1913- Q- RA	
	405 028 7909	TR 2SA608- G- CTV- NP		405 059 9903	TR 2SD1913- R- RA	
Q171	406 007 1901	TR JC556A	Q835	405 060 0005	TR 2SD1913- S- RA	
	406 007 1802	TR JC556B		406 007 1901	TR JC556A	
	405 004 4205	TR 2SA608- E- CTV- NP		406 007 1802	TR JC556B	
Q2001	405 004 4809	TR 2SA608- F- CTV- NP	Q861	405 004 4205	TR 2SA608- E- CTV- NP	
	405 028 7909	TR 2SA608- G- CTV- NP		405 004 4809	TR 2SA608- F- CTV- NP	
	406 007 1901	TR JC556A		405 028 7909	TR 2SA608- G- CTV- NP	
Q201	406 007 1802	TR JC556B	Q871	405 028 7909	TR 2SA608- G- CTV- NP	
	405 004 4205	TR 2SA608- E- CTV- NP		406 007 2106	TR JC546A	
	405 004 4809	TR 2SA608- F- CTV- NP		406 007 2007	TR JC546B	
Q202	405 028 7909	TR 2SA608- G- CTV- NP	Q872	405 019 1909	TR 2SC536- E- NP	
	406 007 2106	TR JC546A		405 019 2708	TR 2SC536- F- NP	
	406 007 2007	TR JC546B		405 019 3804	TR 2SC536- G- NP	
Q431	405 019 1909	TR 2SC536- E- NP	Q873	406 007 2106	TR JC546A	
	405 019 2708	TR 2SC536- F- NP		406 007 2007	TR JC546B	
	405 019 3804	TR 2SC536- G- NP		405 019 1909	TR 2SC536- E- NP	
Q432	405 019 3804	TR 2SC536- G- NP	Q874	405 019 2708	TR 2SC536- F- NP	
	406 007 2106	TR JC546A		405 019 3804	TR 2SC536- G- NP	
	406 007 2007	TR JC546B		406 007 2106	TR JC546A	
Q461	405 019 1909	TR 2SC536- E- NP	Q875	406 007 2007	TR JC546B	
	405 019 2708	TR 2SC536- F- NP		405 019 1909	TR 2SC536- E- NP	
	405 019 3804	TR 2SC536- G- NP		405 019 2708	TR 2SC536- F- NP	
Q462	405 018 0507	TR 2SC3332- R	INTEGRATED CIRCUIT	IC001	409 301 4906	IC TDA7263M
	405 018 0606	TR 2SC3332- S		IC1201	409 018 7603	IC LA7016
	405 095 0209	TR 2SD1556- 3E		IC1202	409 120 3401	IC LA7221
Q462	405 064 7307	TR 2SB1274- Q- RA	IC201	409 309 6209	IC TDA8361/N3	
	405 064 7406	TR 2SB1274- R- RA	IC271	409 404 0201	IC U3665M	
	405 064 7505	TR 2SB1274- S- RA	IC501	409 192 5709	IC LA7833	

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R1042	401 037 5608	MT- GLAZE 10K JA 1/10W	R205	401 024 6720	CARBON 100 JA 1/6W
R1043	401 039 0304	MT- GLAZE 820 JA 1/10W	R206	401 037 5202	MT- GLAZE 100 JA 1/10W
R1044	401 039 0304	MT- GLAZE 820 JA 1/10W	R207	401 037 5202	MT- GLAZE 100 JA 1/10W
R1045	401 037 5400	MT- GLAZE 1K JA 1/10W	R208	401 037 5202	MT- GLAZE 100 JA 1/10W
R1046	401 038 0701	MT- GLAZE 2. 2K JA 1/10W	R212	401 027 5502	CARBON 6. 8K JA 1/6W
R1047	401 037 6704	MT- GLAZE 1. 2K JA 1/10W	R213	401 037 8005	MT- GLAZE 15K JA 1/10W
R1051	401 037 8104	MT- GLAZE 150K JA 1/10W	R214	401 037 5202	MT- GLAZE 100 JA 1/10W
R1052	401 037 5707	MT- GLAZE 100K JA 1/10W	R215	401 038 3702	MT- GLAZE 33K JA 1/10W
R1053	401 037 6704	MT- GLAZE 1. 2K JA 1/10W	R216	401 025 8208	CARBON 22K JA 1/6W
R1054	401 037 8104	MT- GLAZE 150K JA 1/10W	R217	401 025 8208	CARBON 22K JA 1/6W
R1055	401 037 5707	MT- GLAZE 100K JA 1/10W	R218	401 038 7809	MT- GLAZE 56K JA 1/10W
R1056	401 037 6704	MT- GLAZE 1. 2K JA 1/10W	R223	401 014 0305	CARBON 130K JA 1/4W
R108	401 037 5004	MT- GLAZE 0. 000 ZA 1/10W	R224	401 024 7004	CARBON 1K JA 1/6W
R110	401 037 5004	MT- GLAZE 0. 000 ZA 1/10W	R226	401 026 7408	CARBON 39K JA 1/6W
R1101	401 027 6608	CARBON 75 JA 1/6W	R227	401 024 7400	CARBON 10K JA 1/6W
R1102	401 037 7800	MT- GLAZE 150 JA 1/10W	R231	401 037 7800	MT- GLAZE 150 JA 1/10W
R1103	401 038 0701	MT- GLAZE 2. 2K JA 1/10W	R232	401 037 7800	MT- GLAZE 150 JA 1/10W
R1104	401 038 0701	MT- GLAZE 2. 2K JA 1/10W	R271	401 024 6700	CARBON 100 JA 1/6W
R1105	401 037 5707	MT- GLAZE 100K JA 1/10W	R272	401 024 9008	CARBON 120 JA 1/6W
R1106	401 037 5707	MT- GLAZE 100K JA 1/10W	R351	401 024 6700	CARBON 100 JA 1/6W
R1111	401 037 5608	MT- GLAZE 10K JA 1/10W	R352	401 024 8001	CARBON 1M JA 1/6W
R1200	401 022 1905	CARBON 680 JA 1/4W	R353	401 038 0909	MT- GLAZE 220K JA 1/10W
R1201	401 038 6505	MT- GLAZE 47K JA 1/10W	R354	401 024 7400	CARBON 10K JA 1/6W
R1202	401 038 6505	MT- GLAZE 47K JA 1/10W	R355	401 012 9904	CARBON 10M JA 1/4W
R1203	401 037 5608	MT- GLAZE 10K JA 1/10W	R356	401 037 5202	MT- GLAZE 100 JA 1/10W
R1204	401 038 2200	MT- GLAZE 27K JA 1/10W	R357	401 037 5618	MT- GLAZE 10K JA 1/10W
R1205	401 038 2200	MT- GLAZE 27K JA 1/10W	R361	401 038 5409	MT- GLAZE 390K JA 1/10W
R1206	401 038 6505	MT- GLAZE 47K JA 1/10W	R363	401 038 0800	MT- GLAZE 22K JA 1/10W
R1207	401 024 7400	CARBON 10K JA 1/6W	R364	401 037 5202	MT- GLAZE 100 JA 1/10W
R1208	401 038 0800	MT- GLAZE 22K JA 1/10W	R365	401 038 6406	MT- GLAZE 4. 7K JA 1/10W
R1209	401 024 7400	CARBON 10K JA 1/6W	R431	401 038 3504	MT- GLAZE 330 JA 1/10W
R121	401 027 0309	CARBON 47K JA 1/6W	R432	401 037 5400	MT- GLAZE 1K JA 1/10W
R133	401 037 9101	MT- GLAZE 180 JA 1/10W	R433	401 007 1104	CARBON 1K JA 1/2W
R134	401 038 9209	MT- GLAZE 6. 8K JA 1/10W	R434	401 067 9201	OXI DE- MT 390 JA 2W
R135	401 038 6505	MT- GLAZE 47K JA 1/10W	R435	402 075 2307	WIRE WOUND 10 JA 5W
R137	401 037 5202	MT- GLAZE 100 JA 1/10W	R436	401 012 7009	CARBON 10K JA 1/4W
R138	401 038 7700	MT- GLAZE 5. 6K JA 1/10W	R441	401 058 3706	OXI DE- MT 1K JA 1W
R141	401 038 9209	MT- GLAZE 6. 8K JA 1/10W	R447	401 026 9907	CARBON 4. 7K JA 1/6W
R150	401 024 7004	CARBON 1K JA 1/6W	R448	401 009 5803	CARBON 330 JA 1/2W
R151	401 022 1905	CARBON 680 JA 1/4W	R451	401 061 0808	OXI DE- MT 3. 9 JA 1W
R152	401 025 3807	CARBON 180 JA 1/6W	R462	401 025 1605	CARBON 1. 5K JA 1/6W
R153	401 037 5400	MT- GLAZE 1K JA 1/10W	R463	401 025 1625	CARBON 1. 5K JA 1/6W
R154	401 038 2101	MT- GLAZE 2. 7K JA 1/10W	R467	401 025 8703	CARBON 220K JA 1/6W
R155	401 037 5400	MT- GLAZE 1K JA 1/10W	R468	401 025 4200	CARBON 1. 8K JA 1/6W
R156	401 037 5400	MT- GLAZE 1K JA 1/10W	R469	401 027 5908	CARBON 68K JA 1/6W
R157	401 039 0908	MT- GLAZE 910 JA 1/10W	R470	401 027 0309	CARBON 47K JA 1/6W
R158	401 037 5400	MT- GLAZE 1K JA 1/10W	R471	401 025 1605	CARBON 1. 5K JA 1/6W
R159	401 022 1905	CARBON 680 JA 1/4W	R472	401 027 0309	CARBON 47K JA 1/6W
R163	401 038 6505	MT- GLAZE 47K JA 1/10W	R473	401 027 5205	CARBON 680 JA 1/6W
R171	401 038 6307	MT- GLAZE 470 JA 1/10W	R474	401 009 0907	CARBON 270 JA 1/2W
R172	401 025 7409	CARBON 220 JA 1/6W	R481	401 025 4903	CARBON 180K JA 1/6W
R173	401 025 7409	CARBON 220 JA 1/6W	R482	401 027 2600	CARBON 5. 6K JA 1/6W
R1900	401 038 7809	MT- GLAZE 56K JA 1/10W	R501	401 026 9907	CARBON 4. 7K JA 1/6W
R1901	401 037 8005	MT- GLAZE 15K JA 1/10W	R502	402 051 8705	FUSI BLE RES 4. 7 J- 1/2W
R1901A	401 037 5004	MT- GLAZE 0. 000 ZA 1/10W	R504	401 027 3003	CARBON 56K JA 1/6W
R1902	401 039 0403	MT- GLAZE 8. 2K JA 1/10W	R505	401 027 5522	CARBON 6. 8K JA 1/6W
R1902A	401 037 5004	MT- GLAZE 0. 000 ZA 1/10W	R506	401 017 1844	CARBON 2. 7K JA 1/4W
R1903	401 038 6406	MT- GLAZE 4. 7K JA 1/10W	R507	401 025 3827	CARBON 180 JA 1/6W
R1903A	401 037 5004	MT- GLAZE 0. 000 ZA 1/10W	R508	401 025 7825	CARBON 2. 2K JA 1/6W
R1904	401 038 2101	MT- GLAZE 2. 7K JA 1/10W	R509	401 057 6807	OXI DE- MT 0. 68 JA 1W
R1905	401 038 0701	MT- GLAZE 2. 2K JA 1/10W	R511	401 059 2807	OXI DE- MT 150 JA 1W
R1906	401 037 5004	MT- GLAZE 0. 000 ZA 1/10W	R512	401 010 7625	CARBON 560 JA 1/2W
R1907	401 037 5608	MT- GLAZE 10K JA 1/10W	R513	401 063 1001	OXI DE- MT 680 JA 1W
R1908	401 038 3504	MT- GLAZE 330 JA 1/10W	R602	402 072 4403	WIRE WOUND 3. 9 KA 7W
R1909	401 037 7909	MT- GLAZE 1. 5K JA 1/10W	R611	401 027 2600	CARBON 5. 6K JA 1/6W
R1911	401 038 6307	MT- GLAZE 470 JA 1/10W	R615	401 025 8208	CARBON 22K JA 1/6W
R1921	401 037 6615	MT- GLAZE 120 JA 1/10W	R617	401 024 7004	CARBON 1K JA 1/6W
R1922	401 038 5013	MT- GLAZE 390 JA 1/10W	R619	401 016 1508	CARBON 22 JA 1/4W
R1924	401 027 5502	CARBON 6. 8K JA 1/6W	R620	401 007 5805	CARBON 120K JA 1/2W
R2001	401 038 2200	MT- GLAZE 27K JA 1/10W	R621	401 007 5805	CARBON 120K JA 1/2W
R2002	401 037 5608	MT- GLAZE 10K JA 1/10W	R622	401 014 5201	CARBON 15K JA 1/4W
R2004	401 037 7800	MT- GLAZE 150 JA 1/10W	R623	401 025 4200	CARBON 1. 8K JA 1/6W
R2005	401 026 7002	CARBON 3. 9K JA 1/6W	R624	401 068 6902	OXI DE- MT 56 JA 2W
R201	401 038 6505	MT- GLAZE 47K JA 1/10W	R625	401 065 9609	OXI DE- MT 18 JA 2W
R202	401 037 5707	MT- GLAZE 100K JA 1/10W	R626	401 016 3304	CARBON 2. 2K GA 1/4W
R203	401 024 6720	CARBON 100 JA 1/6W	△R631	402 000 8305	SOLI D 5. 6M KA 1/2W
R204	401 024 6720	CARBON 100 JA 1/6W	△R632	402 000 8305	SOLI D 5. 6M KA 1/2W

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R641	401 014 6109	CARBON 150K JA 1/4W	R884	401 037 7800	MT- GLAZE 150 JA 1/10W
R642	401 027 4307	CARBON 6. 2K JA 1/6W	R885	401 038 5102	MT- GLAZE 3. 9K JA 1/10W
R643	401 015 4708	CARBON 180K JA 1/4W	R886	401 037 7800	MT- GLAZE 150 JA 1/10W
R644	401 011 2708	CARBON 68K JA 1/2W	R887	401 038 5102	MT- GLAZE 3. 9K JA 1/10W
R645	401 025 8208	CARBON 22K JA 1/6W	R888	401 037 5202	MT- GLAZE 100 JA 1/10W
R646	402 069 9800	WI RE WOUND 2. 7 KA 5W	R889	401 037 5202	MT- GLAZE 100 JA 1/10W
R647	402 076 WI RE WOUND	8. 2 KA 7W	R891	401 038 6406	MT- GLAZE 4. 7K JA 1/10W
R648	401 026 9927	CARBON 4. 7K JA 1/6W	R892	401 038 6406	MT- GLAZE 4. 7K JA 1/10W
R651	401 064 3806	OXI DE- MT 1 JA 2W	R893	401 037 5400	MT- GLAZE 1K JA 1/10W
R652	401 065 1801	OXI DE- MT 12 JA 2W	R894	401 037 5400	MT- GLAZE 1K JA 1/10W
R653	401 067 8204	OXI DE- MT 39 JA 2W	R895	401 037 6704	MT- GLAZE 1. 2K JA 1/10W
R655	401 067 4206	OXI DE- MT 33 JA 2W	R896	401 038 6505	MT- GLAZE 47K JA 1/10W
R656	401 026 9600	CARBON 470 JA 1/6W	R897	401 012 5748	CARBON 1K JA 1/4W
R661	401 068 4700	OXI DE- MT 4. 7K JA 2W	R898	401 012 5748	CARBON 1K JA 1/4W
R662	401 068 8807	OXI DE- MT 5. 6K JA 2W			
R681	401 008 1608	CARBON 1. 8K JA 1/2W			
R682	401 069 1708	OXI DE- MT 68 JA 2W	VARIABLE RESISTOR		
R684	401 027 8602	CARBON 8. 2K JA 1/6W	VR131	645 003 5531	VR, 10K
R685	401 025 8208	CARBON 22K JA 1/6W	VR361	645 003 5531	VR, 10K
R800	401 026 9907	CARBON 4. 7K JA 1/6W	VR462	645 003 5616	VR, 4. 7K
R801	401 037 5004	MT- GLAZE 0. 000 ZA 1/10W	VR501	645 006 5231	VR, 100
R802	401 038 0701	MT- GLAZE 2. 2K JA 1/10W	VR641	645 003 5579	VR, 2. 2K
R803	401 037 9408	MT- GLAZE 180K JA 1/10W			
R804	401 024 7400	CARBON 10K JA 1/6W	TRANSFORMER		
R806	401 024 7400	CARBON 10K JA 1/6W	T141	610 037 4522	S COIL
R807	401 024 7400	CARBON 10K JA 1/6W	T431	610 000 1077	DRIVE TRANS
R808	401 019 1901	CARBON 3. 9K JA 1/4W	△T451	645 021 2741	TRANS, FLYBACK
R811	401 025 7805	CARBON 2. 2K JA 1/6W			
R812	401 038 5102	MT- GLAZE 3. 9K JA 1/10W	△T611	645 015 7653	TRANS, POWER, PULSE
R813	401 026 4605	CARBON 33K JA 1/6W			
R815	401 024 6700	CARBON 100 JA 1/6W	T681	610 033 3758	POWER TRANS
R816	401 037 5608	MT- GLAZE 10K JA 1/10W			
R817	401 027 8602	CARBON 8. 2K JA 1/6W			
R818	401 038 9308	MT- GLAZE 68K JA 1/10W	COIL		
R819	401 025 7805	CARBON 2. 2K JA 1/6W	L001	645 008 5635	INDUCTOR, 12U K
R820	401 037 5608	MT- GLAZE 10K JA 1/10W	L002	645 008 5635	INDUCTOR, 12U K
R821	401 038 0800	MT- GLAZE 22K JA 1/10W	L003	645 002 1787	CORE, PIPE
R822	401 038 6505	MT- GLAZE 47K JA 1/10W	L1002	645 002 1787	CORE, PIPE
R823	401 024 9305	CARBON 1. 2K JA 1/6W	L1003	645 001 4567	INDUCTOR, 10U K
R824	401 038 0701	MT- GLAZE 2. 2K JA 1/10W	L1004	645 001 4567	INDUCTOR, 10U K
R825	401 038 3603	MT- GLAZE 3. 3K JA 1/10W	L1005	645 001 4567	INDUCTOR, 10U K
R838	401 037 8005	MT- GLAZE 15K JA 1/10W	L1006	645 001 4567	INDUCTOR, 10U K
R839	401 026 4605	CARBON 33K JA 1/6W	L101	645 001 4567	INDUCTOR, 10U K
R840	401 026 9600	CARBON 470 JA 1/6W	L102	645 008 2863	INDUCTOR, 4. 7U K
R841	401 038 0800	MT- GLAZE 22K JA 1/10W	L1022	645 002 1787	CORE, PIPE
R842	401 026 9907	CARBON 4. 7K JA 1/6W	L1023	645 001 4567	INDUCTOR, 10U K
R843	401 037 5608	MT- GLAZE 10K JA 1/10W	L1024	645 001 4567	INDUCTOR, 10U K
R844	401 038 5112	MT- GLAZE 3. 9K JA 1/10W	L1025	645 001 4567	INDUCTOR, 10U K
R845	401 037 5608	MT- GLAZE 10K JA 1/10W	L1026	645 001 4567	INDUCTOR, 10U K
R846	401 038 6406	MT- GLAZE 4. 7K JA 1/10W	L1027	645 008 2863	INDUCTOR, 4. 7U K
R847	401 037 5608	MT- GLAZE 10K JA 1/10W	L1101	645 001 4567	INDUCTOR, 10U K
R848	401 038 6406	MT- GLAZE 4. 7K JA 1/10W	L1102	645 001 4567	INDUCTOR, 10U K
R851	401 037 5400	MT- GLAZE 1K JA 1/10W	L1103	645 008 2863	INDUCTOR, 4. 7U K
R852	401 037 5400	MT- GLAZE 1K JA 1/10W	L141	645 001 4550	PEAKING COIL 10UH
R853	401 038 0800	MT- GLAZE 22K JA 1/10W	L151	645 008 2924	INDUCTOR, 8. 2U K
R861	401 038 2101	MT- GLAZE 2. 7K JA 1/10W	L152	645 003 9782	INDUCTOR, 22U K
R862	401 038 0800	MT- GLAZE 22K JA 1/10W	L201	645 001 4567	INDUCTOR, 10U K
R863	401 038 0800	MT- GLAZE 22K JA 1/10W	L202	645 001 4567	INDUCTOR, 10U K
R864	401 039 0314	MT- GLAZE 820 JA 1/10W	L203	645 001 4567	INDUCTOR, 10U K
R865	401 038 0711	MT- GLAZE 2. 2K JA 1/10W	L231	645 008 2863	INDUCTOR, 4. 7U K
R866	401 038 0711	MT- GLAZE 2. 2K JA 1/10W	L232	645 008 2863	INDUCTOR, 4. 7U K
R867	401 038 0711	MT- GLAZE 2. 2K JA 1/10W	L431	645 008 5628	INDUCTOR, 1U M
R868	401 037 6704	MT- GLAZE 1. 2K JA 1/10W	L432	645 002 1787	CORE, PIPE
R869	401 038 2200	MT- GLAZE 27K JA 1/10W	L441	610 000 0964	LINEARITY COIL
R870	401 025 8208	CARBON 22K JA 1/6W			
R870A	401 037 5004	MT- GLAZE 0. 000 ZA 1/10W	L461	610 212 6310	LINEARITY COIL
R871	401 038 6406	MT- GLAZE 4. 7K JA 1/10W			
R872	401 038 3702	MT- GLAZE 33K JA 1/10W			
R873	401 038 6406	MT- GLAZE 4. 7K JA 1/10W			
R874	401 037 5608	MT- GLAZE 10K JA 1/10W			
R875	401 038 7700	MT- GLAZE 5. 6K JA 1/10W			
R876	401 037 5608	MT- GLAZE 10K JA 1/10W			
R877	401 039 0403	MT- GLAZE 8. 2K JA 1/10W	△L601	645 017 1260	LINE FILTER
R878	401 037 7909	MT- GLAZE 1. 5K JA 1/10W	L607	610 237 1000	PIPE CORE
R879	401 037 5608	MT- GLAZE 10K JA 1/10W	L608	610 237 1000	PIPE CORE
R880	401 038 6505	MT- GLAZE 47K JA 1/10W	L641	645 002 1787	CORE, PIPE
			L642	645 002 1787	CORE, PIPE

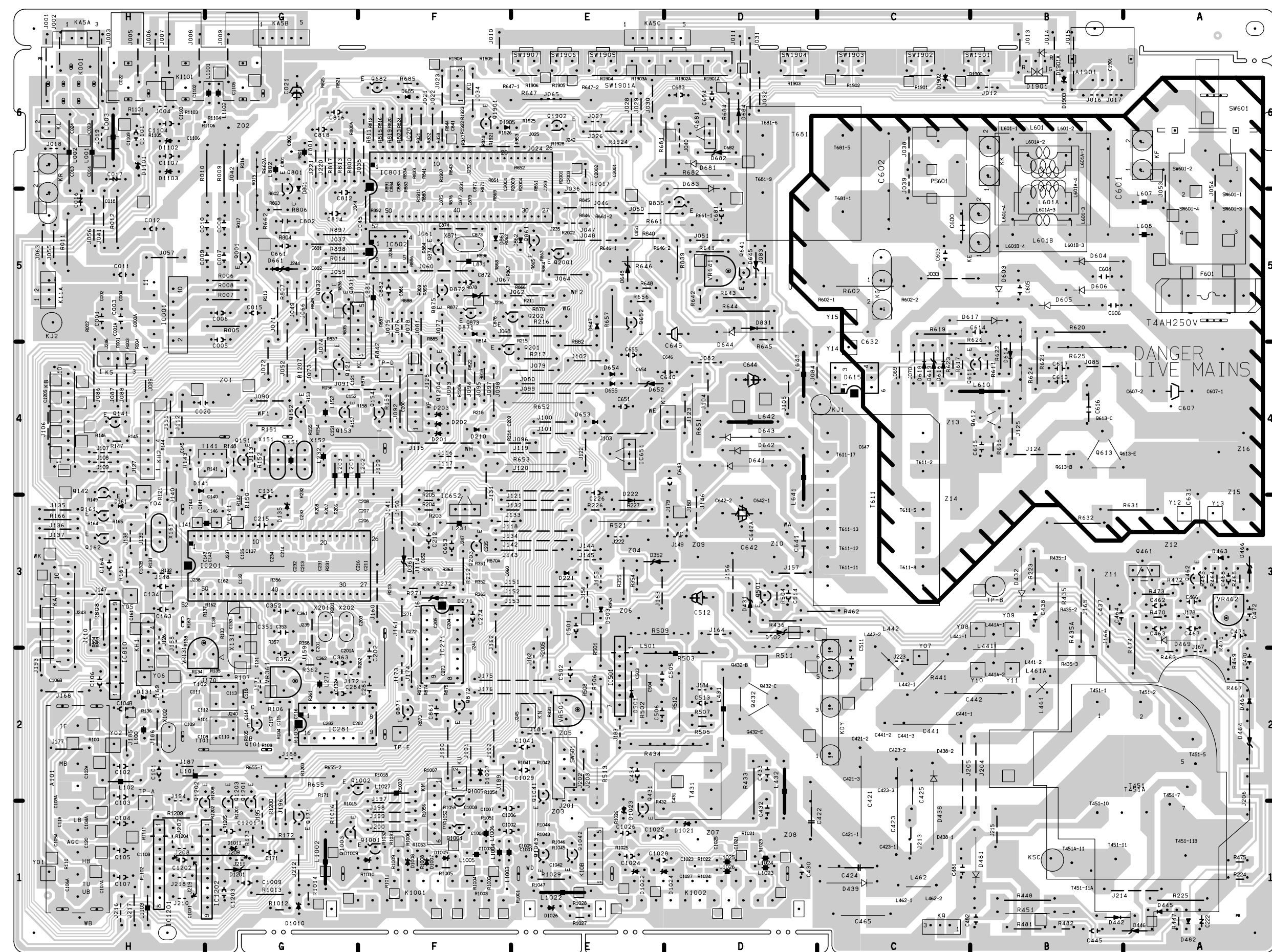
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
L643	645 002 1787	CORE, PIPE		407 151 9102	ZENER DI ODE UZ- 8. 2BCA
L871	645 008 0203	INDUCTOR, 5. 6U K	D464	407 053 6605	ZENER DI ODE MTZ5. 6A
L881	645 001 4697	INDUCTOR, 1. 5U M		407 056 9801	ZENER DI ODE RD5. 6EB1
DIODE				407 163 9602	ZENER DI ODE UZ- 5. 6BCA
D1005	407 063 8309	ZENER DI ODE MTZJ11C	D465	407 012 4406	DI ODE 1SS133
	407 158 3400	ZENER DI ODE UZ- 11BSC		407 012 5809	DI ODE 1SS176
D1007	407 063 8309	ZENER DI ODE MTZJ11C	D466	407 077 9705	ZENER DI ODE MTZ20A
	407 158 3400	ZENER DI ODE UZ- 11BSC		407 055 1707	ZENER DI ODE RD20EB1
D1008	407 063 8309	ZENER DI ODE MTZJ11C		407 164 7805	ZENER DI ODE UZ- 20BCA
	407 158 3400	ZENER DI ODE UZ- 11BSC	D469	407 007 7405	DI ODE EU1
D1010	407 063 8309	ZENER DI ODE MTZJ11C	D481	407 007 7405	DI ODE EU1
	407 158 3400	ZENER DI ODE UZ- 11BSC	D482	407 012 4406	DI ODE 1SS133
D1011	407 063 8309	ZENER DI ODE MTZJ11C		407 012 5809	DI ODE 1SS176
	407 158 3400	ZENER DI ODE UZ- 11BSC	D501	407 005 7308	DI ODE EM01Z
D1021	407 063 8309	ZENER DI ODE MTZJ11C		408 009 9008	DI ODE BYD33D
	407 158 3400	ZENER DI ODE UZ- 11BSC	D502	407 118 2207	ZENER DI ODE 1Z75
D1022	407 063 8309	ZENER DI ODE MTZJ11C	D603	407 006 6300	DI ODE ERC05- 10B
	407 158 3400	ZENER DI ODE UZ- 11BSC		407 009 6901	DI ODE RM11C
D1023	407 063 8309	ZENER DI ODE MTZJ11C	D604	407 006 6300	DI ODE ERC05- 10B
	407 158 3400	ZENER DI ODE UZ- 11BSC		407 009 6901	DI ODE RM11C
D1024	407 063 8309	ZENER DI ODE MTZJ11C	D605	407 006 6300	DI ODE ERC05- 10B
	407 158 3400	ZENER DI ODE UZ- 11BSC		407 009 6901	DI ODE RM11C
D1026	407 063 8309	ZENER DI ODE MTZJ11C	D606	407 006 6300	DI ODE ERC05- 10B
	407 158 3400	ZENER DI ODE UZ- 11BSC		407 009 6901	DI ODE RM11C
D1027	407 063 8309	ZENER DI ODE MTZJ11C	D614	407 005 4505	DI ODE DS442X
	407 158 3400	ZENER DI ODE UZ- 11BSC		407 013 1008	DI ODE 1S1553
D1101	407 063 8309	ZENER DI ODE MTZJ11C		407 013 4306	DI ODE 1S2076A
	407 158 3400	ZENER DI ODE UZ- 11BSC	△D615	407 013 6508	DI ODE 1S2471
D1201	407 053 6803	ZENER DI ODE MTZ5. 6C		407 105 8700	PHOTO COUPLE PC113B
	407 057 0104	ZENER DI ODE RD5. 6EB3	D616	408 009 8407	PHOTO COUPLE CNY17F- 30PT6
	407 151 8501	ZENER DI ODE UZ- 5. 6BCC		407 005 4505	DI ODE DS442X
D135	407 063 8309	ZENER DI ODE MTZJ11C		407 013 1008	DI ODE 1S1553
	407 158 3400	ZENER DI ODE UZ- 11BSC		407 013 4306	DI ODE 1S2076A
D1901A	407 120 9706	LED LN28RPL		407 013 6508	DI ODE 1S2471
D1901- 1	610 269 4703	HOLDER LED A- E6YC	D617	407 007 6606	DI ODE ES1
D1902	407 063 8309	ZENER DI ODE MTZJ11C		407 007 6903	DI ODE ES1Z
	407 158 3400	ZENER DI ODE UZ- 11BSC		408 009 9008	DI ODE BYD33D
D1903	407 063 8309	ZENER DI ODE MTZJ11C	D618	407 005 4505	DI ODE DS442X
D1905	407 012 4406	DI ODE 1SS133		407 013 1008	DI ODE 1S1553
D201	407 063 8309	ZENER DI ODE MTZJ11C		407 013 4306	DI ODE 1S2076A
	407 158 3400	ZENER DI ODE UZ- 11BSC		407 013 6508	DI ODE 1S2471
D202	407 063 8309	ZENER DI ODE MTZJ11C	D619	407 053 3000	ZENER DI ODE MTZ11C
	407 158 3400	ZENER DI ODE UZ- 11BSC		407 054 1807	ZENER DI ODE RD11EB3
D203	407 063 8309	ZENER DI ODE MTZJ11C	D641	407 009 8806	DI ODE RU3AM
	407 158 3400	ZENER DI ODE UZ- 11BSC	D642	407 007 7603	DI ODE EU2
D210	407 012 4406	DI ODE 1SS133		407 007 7801	DI ODE EU2Z
	407 012 5809	DI ODE 1SS176	D643	407 166 2303	DI ODE ERC91- 02L
D221	407 012 4406	DI ODE 1SS133	D644	407 166 2303	DI ODE ERC91- 02L
	407 012 5809	DI ODE 1SS176	D645	407 053 7206	ZENER DI ODE MTZ6. 2C
D222	407 005 4505	DI ODE DS442X		407 053 7503	ZENER DI ODE MTZ6. 8A
	407 013 1008	DI ODE 1S1553		407 057 2801	ZENER DI ODE RD6. 2EB3
	407 013 4306	DI ODE 1S2076A		407 057 4003	ZENER DI ODE RD6. 8EB1
	407 013 6508	DI ODE 1S2471		407 151 8600	ZENER DI ODE UZ- 6. 2BCC
D271	407 053 6407	ZENER DI ODE MTZ5. 1C		407 164 9908	ZENER DI ODE UZ- 6. 8BCA
	407 056 8200	ZENER DI ODE RD5. 1EB3	D647	407 012 4406	DI ODE 1SS133
	407 163 8209	ZENER DI ODE UZ- 5. 1BCC		407 012 5809	DI ODE 1SS176
D352	407 057 8308	ZENER DI ODE RD8. 2EB2	D648	407 053 4007	ZENER DI ODE MTZ16C
	407 164 5207	ZENER DI ODE UZ- 8. 2BCB		407 054 7205	ZENER DI ODE RD16EB3
D361	407 063 8309	ZENER DI ODE MTZJ11C		407 164 7201	ZENER DI ODE UZ- 16BCC
	407 158 3400	ZENER DI ODE UZ- 11BSC	D652	407 053 6803	ZENER DI ODE MTZ5. 6C
D431	407 053 8708	ZENER DI ODE MTZ9. 1A		407 057 0104	ZENER DI ODE RD5. 6EB3
	407 053 8807	ZENER DI ODE MTZ9. 1B		407 151 8501	ZENER DI ODE UZ- 5. 6BCC
	407 057 9602	ZENER DI ODE RD9. 1EB1	D654	407 012 4406	DI ODE 1SS133
	407 057 9701	ZENER DI ODE RD9. 1EB2		407 012 5809	DI ODE 1SS176
	407 163 9909	ZENER DI ODE UZ- 9. 1BCA	D655	407 012 4406	DI ODE 1SS133
	407 162 2703	ZENER DI ODE UZ- 9. 1BCB		407 012 5809	DI ODE 1SS176
D432	407 005 7308	DI ODE EM01Z	D661	409 013 0104	IC HZT33
D438	407 095 8001	DI ODE ERD07- 15L		409 026 8005	IC L5630
D439	407 006 4108	DI ODE ERB44- 04		409 057 5103	IC UPC574J
D442	407 005 4505	DI ODE DS442X	D681	407 005 7308	DI ODE EM01Z
	407 013 1008	DI ODE 1S1553	D682	407 053 6803	ZENER DI ODE MTZ5. 6C
	407 013 4306	DI ODE 1S2076A		407 057 0104	ZENER DI ODE RD5. 6EB3
	407 013 6508	DI ODE 1S2471		407 151 8501	ZENER DI ODE UZ- 5. 6BCC
D445	407 012 4406	DI ODE 1SS133	D683	407 005 7308	DI ODE EM01Z
	407 012 5809	DI ODE 1SS176	D684	408 007 8607	DI ODE 1N4148
D446	407 151 9003	ZENER DI ODE UZ- 7. 5BCC		407 013 1206	DI ODE 1S1553
			D685	407 012 4406	DI ODE 1SS133

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
D831	407 012 5809	DIODE 1SS176	R3815	401 038 2200	MT-GLAZE 27K JA 1/10W
	407 005 4505	DIODE DS442X	R3845	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
	407 013 1008	DIODE 1S1553	R3846	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
	407 013 4306	DIODE 1S2076A			TRANSFORMER
	407 013 6508	DIODE 1S2471	T3801	610 037 4522	S COIL
D861	407 012 4406	DIODE 1SS133			MISCELLANEOUS
	407 012 5809	DIODE 1SS176	K38H1	610 012 4561	TERMINAL 4P
D871	407 012 4406	DIODE 1SS133	K38H2	610 012 4561	TERMINAL 4P
	407 012 5809	DIODE 1SS176	X3801	421 006 2902	SAW F OFWG9251M
D872	407 055 7907	ZENER DIODE RD3. 6EL	X3811	645 003 2806	CERAMIC FILTER
			X3814	645 006 3022	CERAMIC FILTER 5.742MHZ
MISCELLANEOUS			ASSY,PWB,AUDIO F2RT 1AA0B10E230BB		
△F601	423 022 2102	FUSE 250V 4A	TRANSISTOR		
A101	645 017 2571	TUNER, U/V	Q1251	405 109 4407	TR BC848-B
A1901	645 007 1546	UNIT, REMOCON RECEIVER		405 015 8704	TR 2SC2812-L6-TA
	610 224 5806	RC PREAMP 409-1L	Q1252	405 109 4407	TR BC848-B
TP-A	645 008 4058	TERMINAL, PLUG		405 015 8704	TR 2SC2812-L6-TA
TP-B	645 008 4058	TERMINAL, PLUG	Q3431	405 109 4407	TR BC848-B
TP-D	645 008 4058	TERMINAL, PLUG		405 015 8704	TR 2SC2812-L6-TA
TP-E	645 008 4058	TERMINAL, PLUG	Q3432	405 109 4407	TR BC848-B
K001	645 005 5706	JACK, PHONE D3. 6		405 015 8704	TR 2SC2812-L6-TA
	645 006 4708	JACK, PHONE D3. 6	Q3482	405 109 4407	TR BC848-B
K10B	645 004 2911	PLUG, 5P		405 015 8704	TR 2SC2812-L6-TA
K1001	645 005 5867	SOCKET, RGB 21P	Q3484	405 109 4407	TR BC848-B
	610 234 3779	SOCKET 21P		405 015 8704	TR 2SC2812-L6-TA
K1001Z	610 261 2813	MOUNTING-BRKT F2W	INTEGRATED CIRCUIT		
K1002	645 005 5867	SOCKET, RGB 21P	IC1251	409 009 2501	IC HD14052BP
	610 234 3779	SOCKET 21P		409 120 7607	IC MN4052B
K1002Z	610 261 2813	MOUNTING-BRKT F2W		409 051 2801	IC TC4052BP
K11A	645 004 2881	PLUG, 2P		409 059 2209	IC UPD4052BC
K1101	645 016 6433	JACK, RCA-3	IC3401	409 371 6206	IC TDA9840/V2
KSC	645 008 4058	TERMINAL PLUG	IC3431	409 316 4601	IC TDA8424
△PS601	408 013 3801	TH PTH451C262BF140M270	CAPACITOR		
SW1901	610 011 4432	SWITCH, PUSH	C1251	403 041 8804	ELECT 10U M 16V
SW1902	610 011 4432	SWITCH, PUSH	C3401	403 041 8804	ELECT 10U M 16V
SW1903	610 011 4432	SWITCH, PUSH	C3402	403 069 5601	CERAMIC 0.01U K 50V
SW1904	610 011 4432	SWITCH, PUSH	C3403	403 068 0409	CERAMIC 0.1U Z 25V
SW501	610 011 2728	SWITCH, LEVER 1P-3T		403 070 2606	CERAMIC 0.1U Z 50V
△SW601	645 024 0607	SWITCH, SW POWER SD	C3404	403 310 5008	CERAMIC 3300P G 25V
X131	421 002 2609	SAW F TSF5315	C3405	403 042 2405	ELECT 100U M 16V
	421 003 3902	SAW F TSF5315U	C3406	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
X151	610 015 2854	TRAP, CERAMIC 5.5MHZ	C3407	403 026 2803	CERAMIC 47P J 50V
X152	610 015 3011	TRAP, CERAMIC 6.5MHZ	C3408	403 049 9803	ELECT 2.2U M 50V
X201	645 025 2631	OSC CRYSTAL 4.43MHZ	C3409	403 049 9803	ELECT 2.2U M 50V
X871	645 015 8339	OSC, CRYSTAL 12MHZ	C3411	403 069 5601	CERAMIC 0.01U K 50V
			C3412	403 069 5601	CERAMIC 0.01U K 50V
ASSY,PWB,SIF F2RT 1AA0B10E230BA			C3421	403 069 9500	CERAMIC 0.01U Z 50V
TRANSISTOR			C3422	403 041 8804	ELECT 10U M 16V
Q3801	405 015 9701	TR 2SC2814-F4-TA	C3431	403 049 0008	ELECT 1U M 50V
	405 015 9909	TR 2SC2814-F5-TA	C3432	403 042 2405	ELECT 100U M 16V
INTEGRATED CIRCUIT			C3433	403 049 0008	ELECT 1U M 50V
IC3801	409 290 4307	IC TDA2545A/V4	C3434	403 068 0409	CERAMIC 0.1U Z 25V
IC3811	409 376 6300	IC TDA9821/V1		403 070 2606	CERAMIC 0.1U Z 50V
CAPACITOR			C3435	403 068 3202	CERAMIC 0.033U K 25V
C3802	403 069 9500	CERAMIC 0.01U Z 50V		403 073 1200	CERAMIC 0.033U K 50V
C3803	403 069 9500	CERAMIC 0.01U Z 50V	C3436	403 074 7607	CERAMIC 5600P K 50V
C3804	403 073 9107	CERAMIC 4700P K 50V	C3437	403 074 7607	CERAMIC 5600P K 50V
C3805	403 166 8000	MT-POLYEST 0.33U J 63V	C3438	403 068 3202	CERAMIC 0.033U K 25V
	403 260 2904	MT-COMPO 0.33U J 50V		403 073 1200	CERAMIC 0.033U K 50V
C3806	403 028 4102	CERAMIC 56P J 50V	RESISTOR		
C3807	403 041 8804	ELECT 10U M 16V	R1251	401 038 2101	MT-GLAZE 2.7K JA 1/10W
C3808	403 069 9500	CERAMIC 0.01U Z 50V	R1252	401 038 9209	MT-GLAZE 6.8K JA 1/10W
C3811	403 041 8804	ELECT 10U M 16V	R1253	401 039 0502	MT-GLAZE 82K JA 1/10W
C3812	403 069 9500	CERAMIC 0.01U Z 50V	R1254	401 039 0502	MT-GLAZE 82K JA 1/10W
C3813	403 049 9803	ELECT 2.2U M 50V	R1257	401 038 6307	MT-GLAZE 470 JA 1/10W
C3814	403 049 9803	ELECT 2.2U M 50V	R1258	401 038 0701	MT-GLAZE 2.2K JA 1/10W
C3815	403 049 9803	ELECT 2.2U M 50V	R1262	401 039 0502	MT-GLAZE 82K JA 1/10W
RESISTOR			R1264	401 039 0502	MT-GLAZE 82K JA 1/10W
R3802	401 037 5202	MT-GLAZE 100 JA 1/10W	R1265	401 038 6307	MT-GLAZE 470 JA 1/10W
R3803	401 037 5608	MT-GLAZE 10K JA 1/10W	R1266	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R3804	401 037 9200	MT-GLAZE 1.8K JA 1/10W	R3401	401 037 5202	MT-GLAZE 100 JA 1/10W
R3805	401 038 3504	MT-GLAZE 330 JA 1/10W	R3402	401 037 5202	MT-GLAZE 100 JA 1/10W
R3806	401 038 7502	MT-GLAZE 56 JA 1/10W	R3403	401 038 3108	MT-GLAZE 30K JA 1/10W
R3811	401 038 7601	MT-GLAZE 560 JA 1/10W	R3431	401 037 5202	MT-GLAZE 100 JA 1/10W
R3814	401 038 7601	MT-GLAZE 560 JA 1/10W	R3432	401 037 5202	MT-GLAZE 100 JA 1/10W
			R3433	401 037 5202	MT-GLAZE 100 JA 1/10W

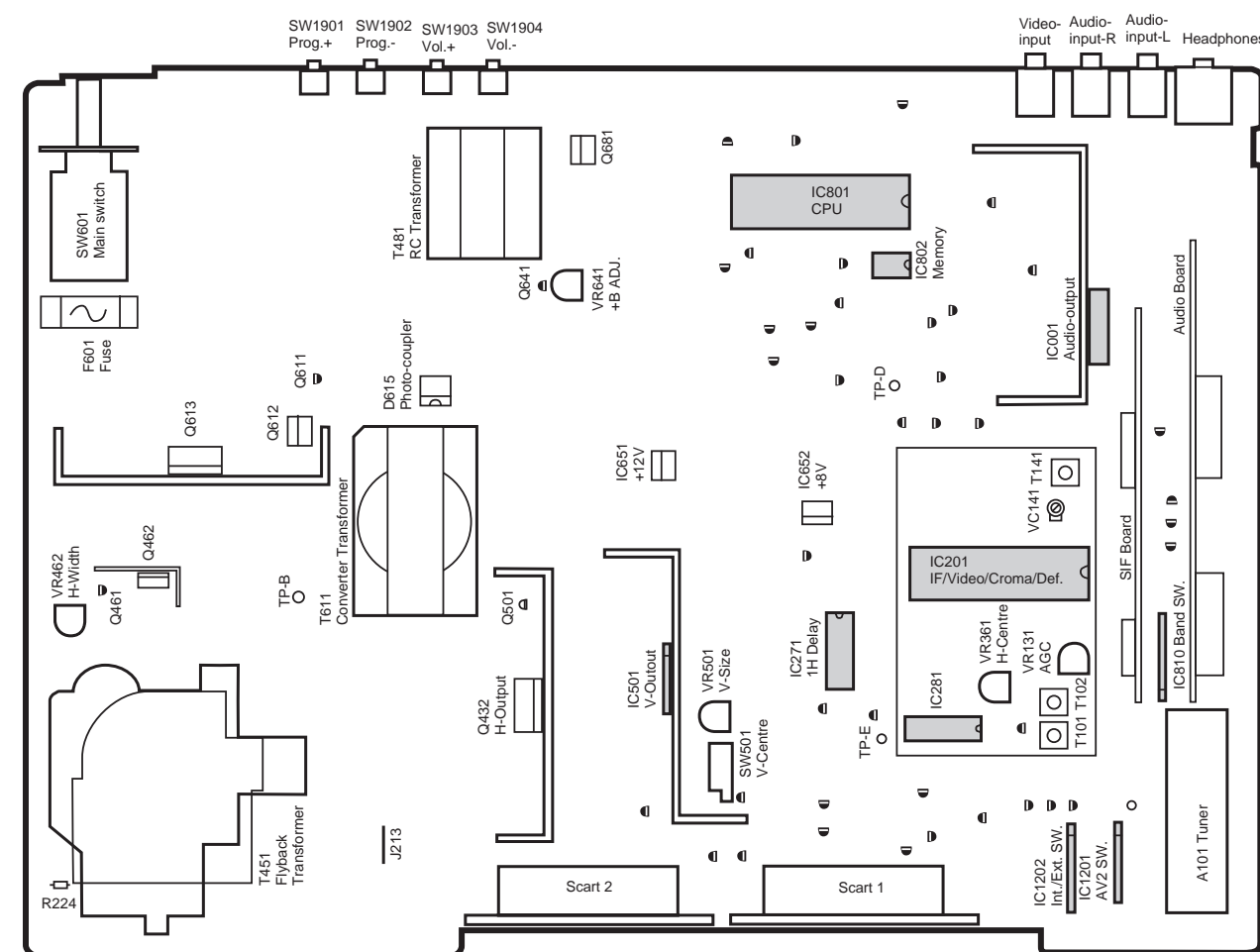
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R3434	401 037 7909	MT- GLAZE 1. 5K JA 1/10W	VARIABLE RESISTOR		
R3435	401 037 5202	MT- GLAZE 100 JA 1/10W	VR2601	645 003 5722	VR, SEMI, 4. 7K N
R3436	401 037 7909	MT- GLAZE 1. 5K JA 1/10W	VR2602	645 003 5647	VR, SEMI, 1K N
R3477	401 038 0701	MT- GLAZE 2. 2K JA 1/10W	VR2611	645 003 5722	VR, SEMI, 4. 7K N
R3479	401 038 0701	MT- GLAZE 2. 2K JA 1/10W	VR2612	645 003 5647	VR, SEMI, 1K N
R3481	401 038 0701	MT- GLAZE 2. 2K JA 1/10W	VR2621	645 003 5722	VR, SEMI, 4. 7K N
R3482	401 038 0701	MT- GLAZE 2. 2K JA 1/10W	COIL		
TRANSFORMER			L2601	645 008 0012	INDUCTOR, 330U K
T3401	645 015 7943	COIL, FERRITE 2. 5M	L2611	645 008 0012	INDUCTOR, 330U K
COIL			L2621	645 008 0012	INDUCTOR, 330U K
L3451	401 037 5004	MT- GLAZE 0. 000 ZA 1/10W	DIODE		
MISCELLANEOUS			D2601	407 013 1206	DIODE 1S1555
X3401	645 016 6662	OSC, CRYSTAL 10MHZ	D2611	407 013 1206	DIODE 1S1555
ASSY,PWB,CRT F2RC 1AA0B10E24500			D2621	407 013 1206	DIODE 1S1555
TRANSISTOR			D2651	407 013 1206	DIODE 1S1555
Q2601	405 041 6507	TR 2SC2621-D- RA	MISCELLANEOUS		
	405 041 6705	TR 2SC2621-E- RA	K26M	645 008 4058	TERMINAL, PLUG
	405 066 9903	TR 2SC2688(1) - K	K26P	645 004 2911	PLUG, 5P
	405 067 0008	TR 2SC2688(1) - L	K26Q	645 004 2898	PLUG, 3P
	405 067 0107	TR 2SC2688(1) - M	K2601-B	610 233 7990	CRT SOCKET
Q2611	405 041 6507	TR 2SC2621-D- RA	OUT OF CIRCUIT -F4SEM		
	405 041 6705	TR 2SC2621-E- RA	PICTURE TUBE (PANASONIC)		
	405 066 9903	TR 2SC2688(1) - K	△Q901	414 009 2208	CRT A66ECF20X05
	405 067 0008	TR 2SC2688(1) - L	COIL		
	405 067 0107	TR 2SC2688(1) - M	△L901	645 025 6523	COIL, DEGAUSSING
Q2621	405 041 6507	TR 2SC2621-D- RA	MISCELLANEOUS		
	405 041 6705	TR 2SC2621-E- RA	SP901	610 232 3986	SPEAKER, 8
	405 066 9903	TR 2SC2688(1) - K	SP902	610 232 3986	SPEAKER, 8
	405 067 0008	TR 2SC2688(1) - L	△W901	645 012 7632	ASSY, CORD, POWER
	405 067 0107	TR 2SC2688(1) - M	W902	610 204 6090	ASSY, WIRE GND CONNECTOR E
Q2640	406 007 1901	TR JC556A			
	406 007 1802	TR JC556B			
	405 004 4205	TR 2SA608-E- CTV- NP			
	405 004 4809	TR 2SA608-F- CTV- NP			
	405 028 7909	TR 2SA608-G- CTV- NP			
Q2651	406 007 1901	TR JC556A			
	406 007 1802	TR JC556B			
	405 004 4205	TR 2SA608-E- CTV- NP			
	405 004 4809	TR 2SA608-F- CTV- NP			
	405 028 7909	TR 2SA608-G- CTV- NP			
CAPACITOR					
C2601	403 074 5702	CERAMIC 560P K 50V			
C2611	403 074 5702	CERAMIC 560P K 50V			
C2621	403 074 5702	CERAMIC 560P K 50V			
C2631	403 077 2708	CERAMIC 1000P P 2K			
C2635	403 055 8401	ELECT 22U M 250V			
	403 260 0405	ELECT 22U M 250V			
C2651	403 201 5001	ELECT 330U M 16V			
RESISTOR					
R2601	401 018 2800	CARBON 330 JA 1/4W			
R2602	401 019 1901	CARBON 3. 9K JA 1/4W			
R2603	401 012 5708	CARBON 1K JA 1/4W			
R2604	401 065 4604	OXIDE- MT 12K JA 2W			
R2605	401 009 6602	CARBON 3. 3K JA 1/2W			
R2611	401 018 2800	CARBON 330 JA 1/4W			
R2612	401 019 1901	CARBON 3. 9K JA 1/4W			
R2613	401 016 3809	CARBON 2. 2K JA 1/4W			
R2614	401 065 4604	OXIDE- MT 12K JA 2W			
R2615-B	401 009 6602	CARBON 3. 3K JA 1/2W			
R2621	401 018 2800	CARBON 330 JA 1/4W			
R2622	401 019 1901	CARBON 3. 9K JA 1/4W			
R2623	401 015 2704	CARBON 1. 8K JA 1/4W			
R2624	401 065 4604	OXIDE- MT 12K JA 2W			
R2625-B	401 009 6602	CARBON 3. 3K JA 1/2W			
R2627	401 020 0801	CARBON 470 JA 1/4W			
R2641	401 020 2003	CARBON 4. 7K JA 1/4W			
R2642	401 018 3807	CARBON 3. 3K JA 1/4W			
R2644	401 017 0807	CARBON 270 JA 1/4W			
R2652	401 012 7009	CARBON 10K JA 1/4W			
R2653	401 012 7009	CARBON 10K JA 1/4W			

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description

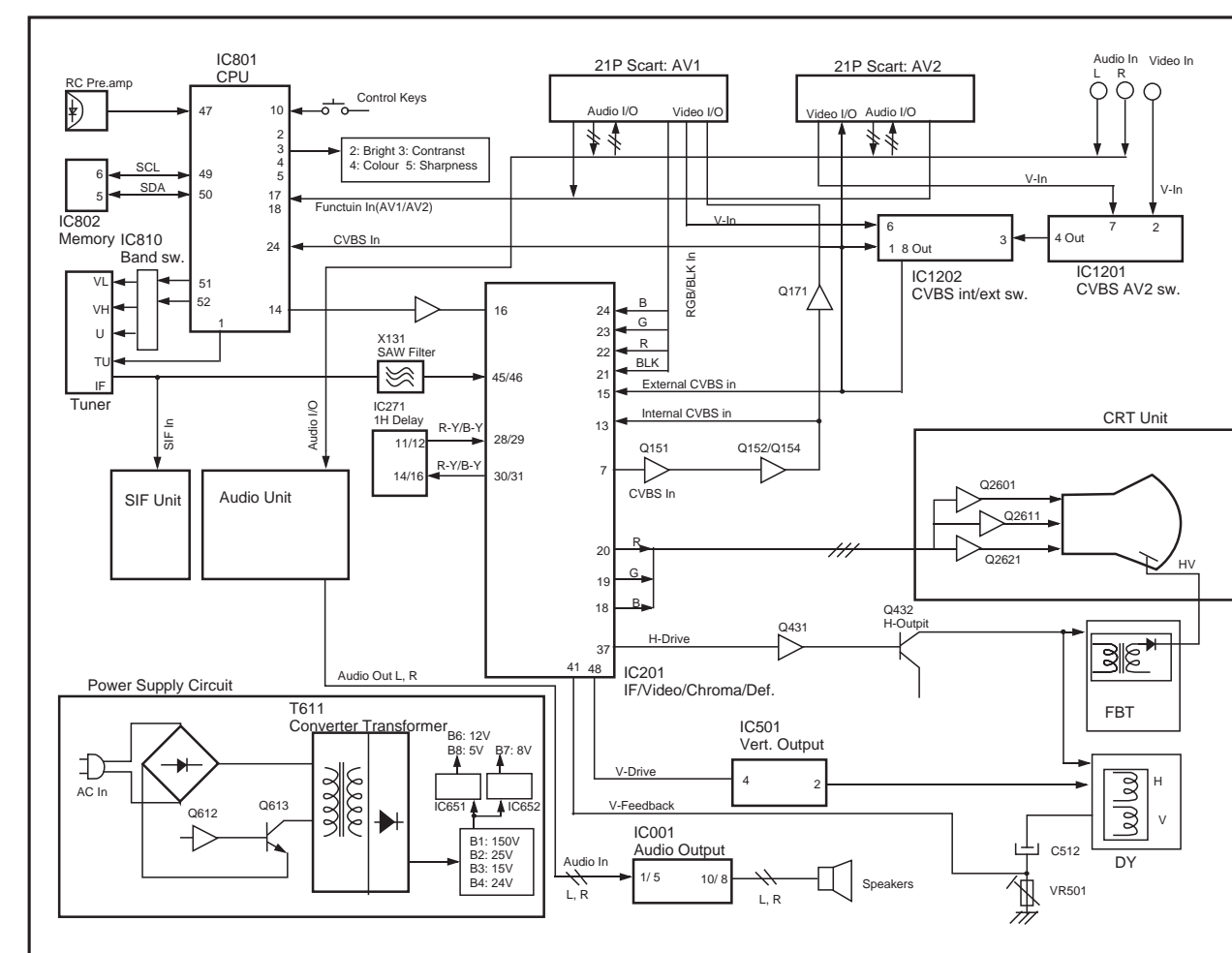
Main Board /Pannello Principal
Circuit side/Lato del Circuito



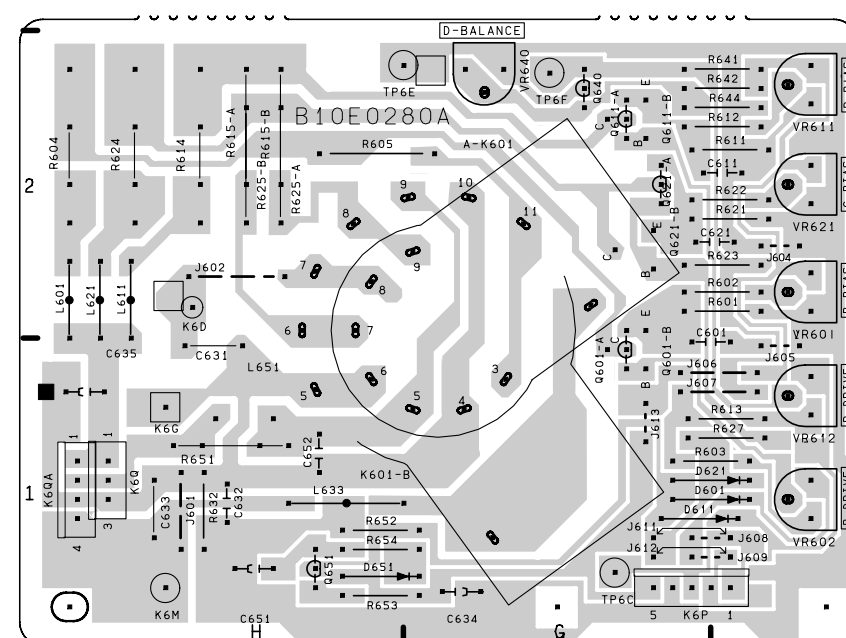
Main Board /Pannello Principal
Component Location/Lato del Componente



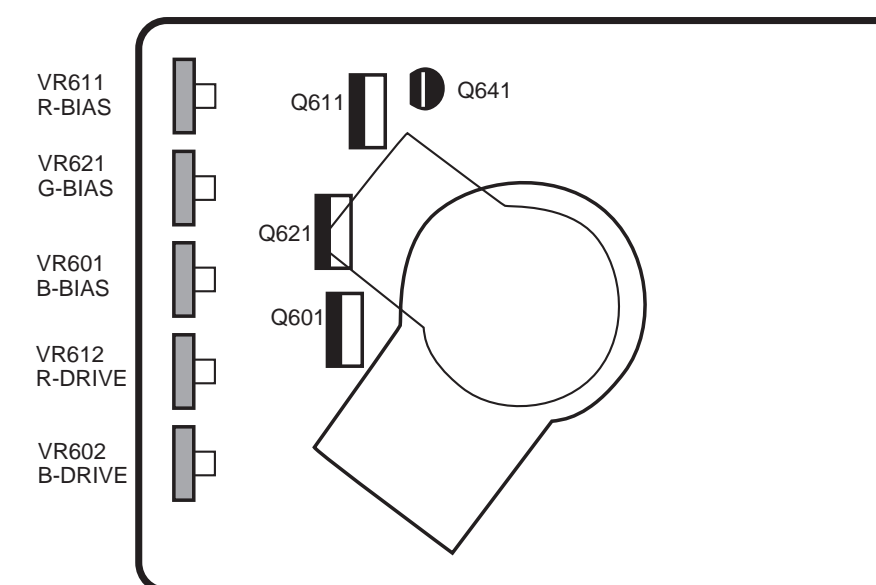
GENERAL BLOCK DIAGRAM FOR EB4 CHASSIS



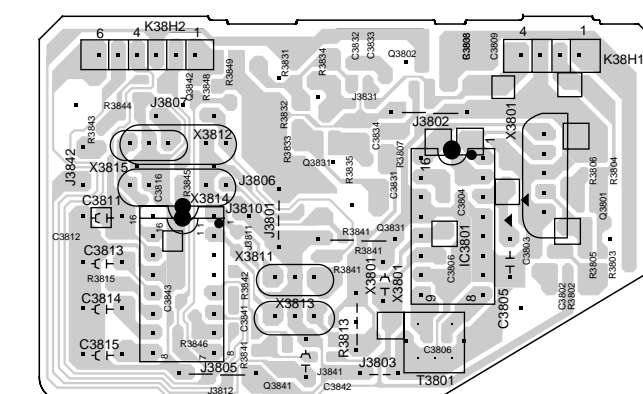
CRT Board /Pannello Cinescopio
Circuit side/Lato del Circuito



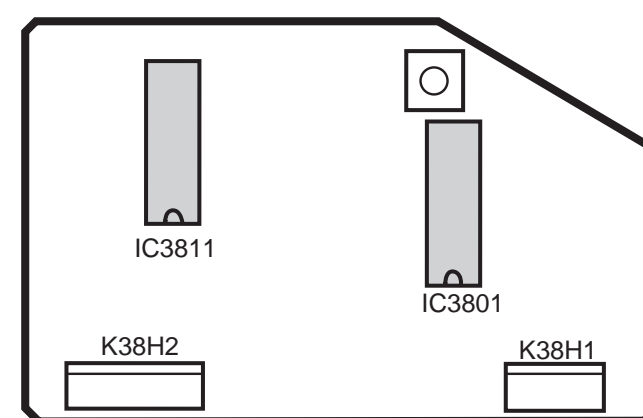
Component Location/Lato del Componente



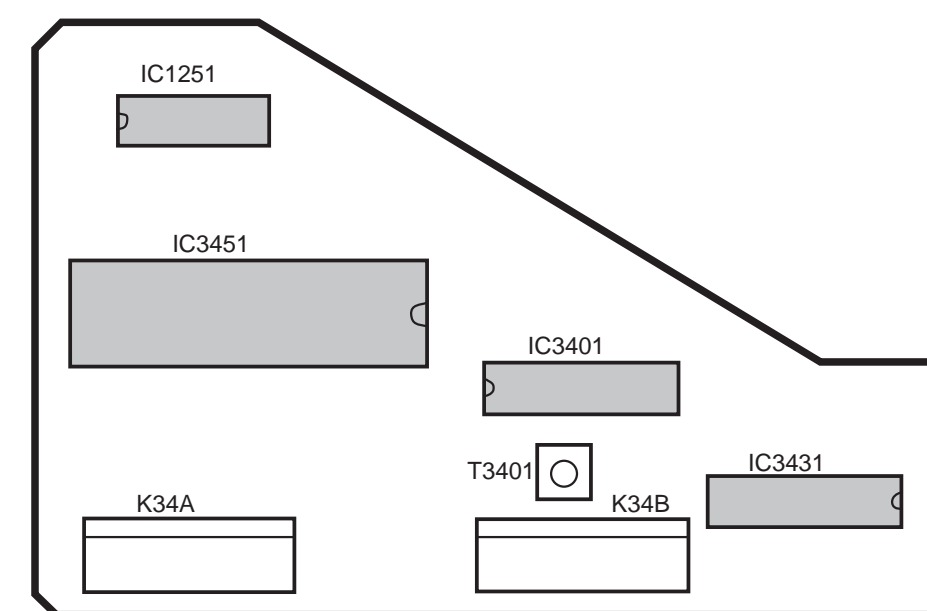
SIF Board /Pannello SIF
Circuit side/Lato del Circuito



Component Location/Lato del Componente



Audio Board /Pannello Audio
Component Location/Lato del Componente



REGOLAZIONI DI SERVIZIO TECNICO

REGOLAZIONE DELL'ALIMENTATORE B1

1. Regolare VR641 in modo che sia centro meccanico, prima di premere l'interruttore principale.
2. Sintonizzare il ricevitore sull'oscillogramma circolare PAL.
3. Regolare i comandi di luminosità e contrasto sui livelli normali.
4. Collegare il misuratore V digitale su "TP-B".
5. Servendosi di VR641, regolare il voltaggio su 130 ± 0.5 V (per 21 pollici).
6. Servendosi di VR641, regolare il voltaggio su 150 ± 0.5 V (per 25 pollici).

REGOLAZIONE AFT

1. Sintonizzare il ricevitore sulla stazione più chiara.
2. Servendosi di T141, regolare AFT per ottenere l'immagine migliore.

REGOLAZIONE AGC

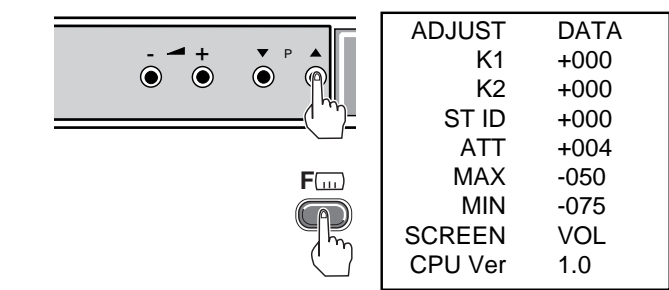
NOTA: Non tentare questa regolazione con un segnale debole.

1. Sintonizzare il ricevitore sulla stazione più chiara.
2. Regolare AGC VR(VR130) nella direzione in cui appaiono i disturbi da neve, quindi regolare in direzione opposta nel punto esatto in cui i disturbi da neve scompaiono.

REGOLAZIONE DELLA SCALA DEI GRIGI

[REGOLAZIONE VR DI SCHERMO]

1. Sintonizzare il ricevitore sull'oscillogramma bianco.
2. Regolare il comando della luminosità su centro display e quello del contrasto su normale.
3. Regolare VR2601 e VR2611 in modo che sia centro meccanico.
4. Ruotare fino in fondo, in senso antiorario VR602, VR612 o VR622.
5. Quando si tiene premuto il pulsante tasto "Funzione" (sul telecomando) e contemporaneamente si preme il pulsante P (sul televisore) appaiono le seguenti indicazioni sullo schermo.



6. Premere il tasto "Funzione" (sul televisore) per selezione la funzione "SCREEN".

7. Per regolare il livello, premere il tasto livello.



[REGOLAZIONE VR DEL DRIVE (ECCITAZIONE)]

9. Servendosi di VR601 e VR611, regolare il bilanciamento del bianco.

REGOLAZIONE DI ALTO VOLTAGGIO E DI AMPIEZZA

[REGOLAZIONE DI ALTO VOLTAGGIO]

1. Sintonizzare il ricevitore sull'oscillogramma circolare PAL.
2. Regolare i comandi di luminosità e contrasto sui livelli massimi.
3. Collegare il misuratore V digitale su entrambi i terminali di R224 (lato sinistro +), e il misuratore di alto voltaggio sull'angolo CRT.
4. Confermare che l'alto voltaggio sia 25.0 ± 1 KV alla corrente di fascio di elettroni 0 (per 21 pollici).
5. Confermare che l'alto voltaggio sia 26.0 ± 1 KV alla corrente di fascio di elettroni 1, e meno di 29.0 KV alla corrente di fascio di elettroni 0 (per 25/28 pollici).

[REGOLAZIONE DI AMPIEZZA-H]

5. Se l'ampiezza H è troppo larga o troppo stretta, collegare o scollegare un filo in punto Z13 (per 21 pollici).
- Regolare VR462 per ottenere l'ampiezza H appropriata (per 25/28 pollici).
- Riconfermare l'alto voltaggio.

REGOLAZIONE DI CENTRO-H

1. Sintonizzare il ricevitore sull'oscillogramma circolare.
2. Regolare il centro-H servendosi di VR361.

REGOLAZIONE DI CENTRO-V

1. Sintonizzare il ricevitore sull'oscillogramma circolare.
2. Regolare il centro-V servendosi di SW501.

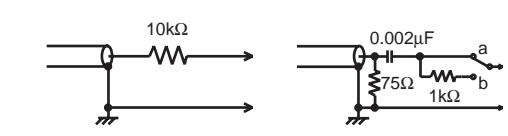
REGOLAZIONE DELLA DIMENSIONE-V

1. Sintonizzare il ricevitore sull'oscillogramma circolare.
2. Regolare la dimensione-V servendosi di VR501.

REGOLAZIONE DELLA MESSA A FUOCO

Servendosi di FOCUS VR, regolare il controllo della messa a fuoco per una buona scansione delle linee.

ALLINEAMENTO DI CIRCUITO



Allineamento VIF

IMPOSTAZIONE	Regolazione	Forma d'onda VIF
DC 15.5V Tensione AGC (4.3-4.5V) Sonda di uscita	C644 + IC201-pin48 IC201-pin45 (Side b)	Servendosi di T141, regolare "P" in modo che sia di ampiezza massima.
Sonda di ingresso	IC201-pin7	
Marker frequency Sweep ATT 0dB=176mVrms/75	38.9MHz 20dB	

Allineamento SIF

IMPOSTAZIONE	Regolazione	Forma d'onda SIF
DC 12V Tensione AGC Sonda di uscita	IC3801-pin11 IC3801-pin3 IC3801-pin1 (Side b)	1. Regolare la tensione AGC in modo che sia "A" = 0.5Vp-p.
Sonda di ingresso ATT di deflessione Frequenza segnalatore	IC3801-pin12 10dB 38.9MHz	2. Servendosi di T3801, regolare "P" in modo che sia uguale alla linea di centro.

Allineamento Pilot

IMPOSTAZIONE	Regolazione	Forma d'onda
Oscilloscopio Ingresso di desidera SW di sistema Deviazione Modo	IC3401-pin5 Sistema B/G 27kHz Stereo	Servendosi di T3401, regolare "P" in modo che sia di ampiezza massima.

Circuit side/Lato del Circuito

