



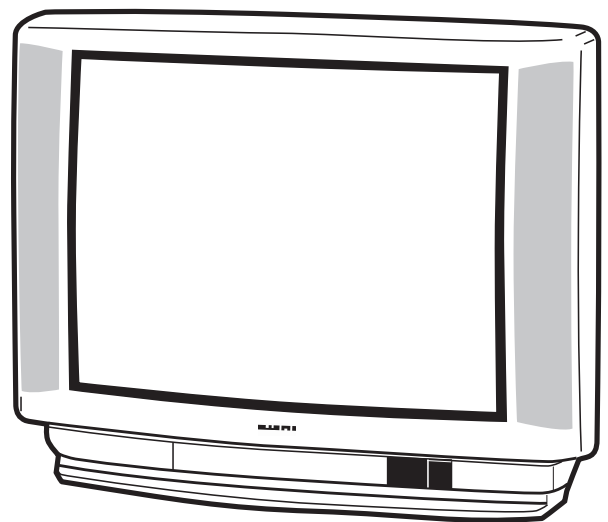
Colour Television Service Manual

CE28D3-c

Model CE28D3-C (W.Europe)

Service Ref. No. CE28D3-C-01

PRODUCT CODE: 111327215
ORIGINAL VERSION: Chassis No. EB4-A



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)	736 x 596 x 500mm
Weight	32 Kg

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.

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

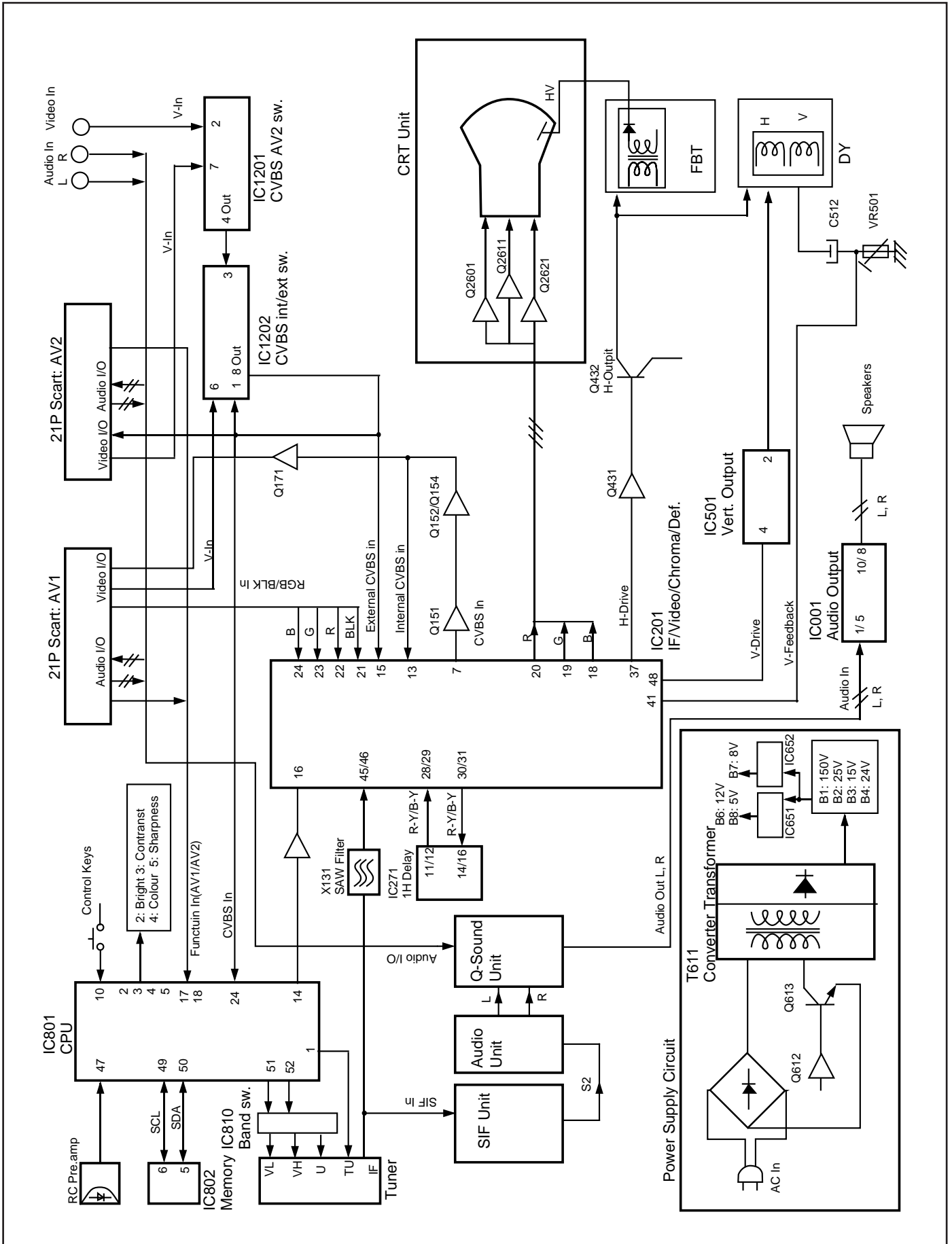
The primary source of X-RADIATION in the television receiver is the picture tube. The picture tube is specially constructed to limit X-RADIATION emissions. For continued X-RADIATION protection, the replacement tube must be the same type as the original including suffix letter. Excessive high voltage 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.

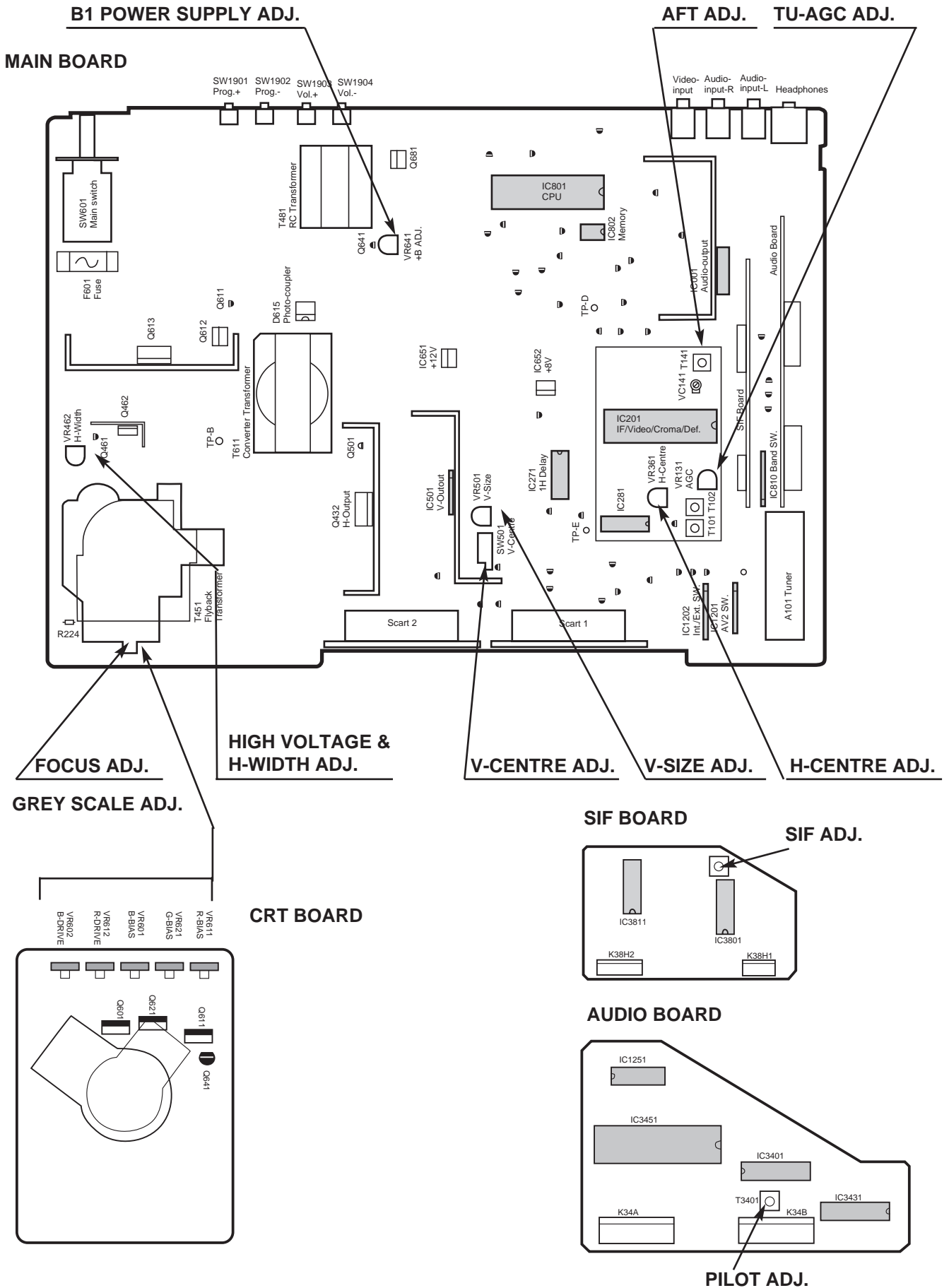
Pin25: Black
Pin26: IREF
Pin27: Odd/Even output
Pin28: GND
Pin29: -
Pin30: V-deflection stop output
Pin31: RGB REF
Pin32: Blue output for OSD
Pin33: Green output for OSD
Pin34: Red output for OSD
Pin35: Blanking output for OSD
Pin36: H-sync. input (Horizontal pulse for OSD)
Pin37: V-sync. input (Vertical 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. This sets up a 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 1.4mA, 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.

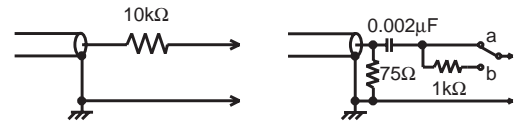
V-SIZE ADJUSTMENT

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	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	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 to set 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 entre 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:

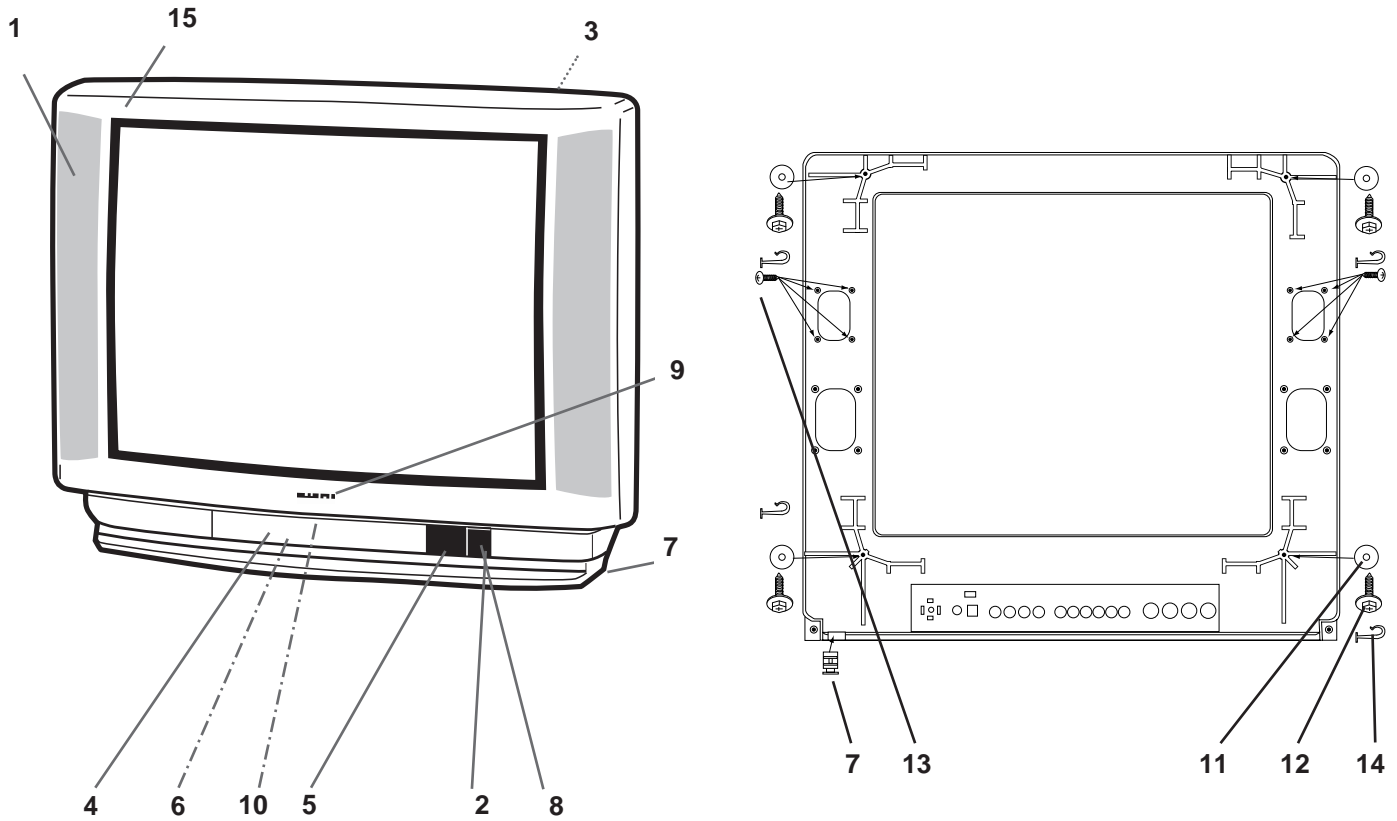
The items K1, K2, ST ID and ATT are invalid adjustments for a model which does not have an A2 stereo decoder.

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 CE28D3-C-01

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



Item	Part No.	Description
CABINET PARTS		
1	610 264 7556	ASSY, CABINET FR- F3SLV
2	610 261 6057	BUTTON POWER- F3SCM
3	610 270 5905	CABINET BACK- F3SKV
4	610 268 6272	DOOR- F3SE
5	610 261 6132	DEC BOARD- F3SCM
6	610 261 7726	DEC CONTROL SHEET- F3SCM
7	610 253 2449	HOLDER AC CORD- GBR- D4VA
8	610 261 3032	SPRING- E7GC
9	645 003 9256	BADGE, SANYO*46. 2X13. 5L45
10	610 104 2505	LATCH PUSH, 7. 9X6. 9BK
11	610 254 8426	SPACER CUSHION- D5PC
12	412 009 3003	CRT SCREW 6 X 30
13	411 076 1400	SCREW TPG 4 X 14
14	610 265 4202	HOLDER DEGAUSS COIL- F3SC
15	610 273 9268	SURROUND BADGE- F3JTV
ACCESSORIES		
16	JXMCA	RC TRANSMITTER
17	SKP10115	INST MANUAL (GB, D, F)
18	SKP10116	INST MANUAL (NL, GR, I)

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: 100px;">Rated Voltage</p> <p style="margin-left: 100px;">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: 100px;">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: 100px;">Rated Wattage</p> <p style="margin-left: 100px;">Performance Symbols: A: General B: Non flammable Z: Low noise Other: Temperature coefficient</p> <p style="margin-left: 100px;">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: 100px;">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;">CE28D3-C-01</h3> <p>ASSY,PWB,MAIN F3STV 1AA0B10H02800 (Page 11) ASSY,PWB,SIF 3D-A2 ST 1AA0B10H0270A (Page 17) ASSY,PWB,AUDIO 3D-A2 1AA0B10H0270B (Page 17) ASSY,PWB,Q-SOUND 1AA0B10H37800 (Page 18) ASSY,PWB,CRT F2RC 1AA0B10E24500 (Page 18) OUT OF CIRCUIT-F3STV (Page 19)</p> <hr style="border: 1px solid black;"/> <p>ASSY,PWB,MAIN F3STV 1AA0B10H02800</p> <p>TRANSISTOR</p> <table style="width: 100%; border-collapse: collapse;"> <tr><td>Q001</td><td>406</td><td>007</td><td>2106</td><td>TR</td><td>JC546A</td></tr> <tr><td>Q1001</td><td>406</td><td>007</td><td>1901</td><td>TR</td><td>JC556A</td></tr> <tr><td>Q1002</td><td>406</td><td>007</td><td>2106</td><td>TR</td><td>JC546A</td></tr> <tr><td>Q1003</td><td>406</td><td>007</td><td>2106</td><td>TR</td><td>JC546A</td></tr> <tr><td>Q1004</td><td>406</td><td>007</td><td>2106</td><td>TR</td><td>JC546A</td></tr> <tr><td>Q1005</td><td>406</td><td>007</td><td>2106</td><td>TR</td><td>JC546A</td></tr> <tr><td>Q1041</td><td>406</td><td>007</td><td>2106</td><td>TR</td><td>JC546A</td></tr> <tr><td>Q1042</td><td>406</td><td>007</td><td>1901</td><td>TR</td><td>JC556A</td></tr> <tr><td>Q1043</td><td>406</td><td>007</td><td>2106</td><td>TR</td><td>JC546A</td></tr> <tr><td>Q1201</td><td>406</td><td>007</td><td>2106</td><td>TR</td><td>JC546A</td></tr> <tr><td>Q1202</td><td>406</td><td>007</td><td>2106</td><td>TR</td><td>JC546A</td></tr> <tr><td>Q1203</td><td>406</td><td>007</td><td>2106</td><td>TR</td><td>JC546A</td></tr> <tr><td>Q1204</td><td>406</td><td>007</td><td>2106</td><td>TR</td><td>JC546A</td></tr> <tr><td>Q121</td><td>406</td><td>007</td><td>2106</td><td>TR</td><td>JC546A</td></tr> <tr><td>Q151</td><td>406</td><td>007</td><td>1901</td><td>TR</td><td>JC556A</td></tr> <tr><td>Q152</td><td>406</td><td>007</td><td>2106</td><td>TR</td><td>JC546A</td></tr> <tr><td>Q153</td><td>406</td><td>007</td><td>1901</td><td>TR</td><td>JC556A</td></tr> <tr><td>Q154</td><td>406</td><td>007</td><td>1901</td><td>TR</td><td>JC556A</td></tr> <tr><td>Q171</td><td>406</td><td>007</td><td>2106</td><td>TR</td><td>JC546A</td></tr> <tr><td>Q2001</td><td>406</td><td>007</td><td>2106</td><td>TR</td><td>JC546A</td></tr> <tr><td>Q201</td><td>406</td><td>007</td><td>2106</td><td>TR</td><td>JC546A</td></tr> <tr><td>Q202</td><td>406</td><td>007</td><td>2106</td><td>TR</td><td>JC546A</td></tr> <tr><td>Q431</td><td>405</td><td>018</td><td>0616</td><td>TR</td><td>2SC3332- S</td></tr> <tr><td>Q432</td><td>405</td><td>095</td><td>0209</td><td>TR</td><td>2SD1556- 3E</td></tr> <tr><td>Q432- 1</td><td>610</td><td>252</td><td>1108</td><td>H</td><td>HEAT SINK E7LC</td></tr> <tr><td>Q432- 5</td><td>610</td><td>252</td><td>0057</td><td>W</td><td>WIRE HOLDING HOOK- U- FWA</td></tr> <tr><td>Q461</td><td>405</td><td>064</td><td>7307</td><td>TR</td><td>2SB1274- Q- RA</td></tr> <tr><td>Q461- 1</td><td>610</td><td>251</td><td>5916</td><td>HEAT SINK PCC E7LC</td></tr> <tr><td>Q462</td><td>406</td><td>007</td><td>2106</td><td>TR</td><td>JC546A</td></tr> <tr><td>Q501</td><td>406</td><td>007</td><td>2106</td><td>TR</td><td>JC546A</td></tr> <tr><td>Q611</td><td>406</td><td>007</td><td>1901</td><td>TR</td><td>JC556A</td></tr> <tr><td>Q612</td><td>405</td><td>058</td><td>0208</td><td>TR</td><td>2SC3807- R- CTV- YA</td></tr> <tr><td>Q613</td><td>405</td><td>095</td><td>0407</td><td>TR</td><td>2SC4429- L- YB</td></tr> <tr><td>Q613- 1</td><td>610</td><td>251</td><td>5893</td><td>POW</td><td>HEAT SINK E7LC</td></tr> <tr><td>Q641</td><td>406</td><td>007</td><td>2106</td><td>TR</td><td>JC546A</td></tr> <tr><td>Q652</td><td>405</td><td>023</td><td>5019</td><td>TR</td><td>2SD400- E- MP- AE</td></tr> <tr><td>Q681</td><td>405</td><td>059</td><td>9804</td><td>TR</td><td>2SD1913- Q- RA</td></tr> <tr><td>Q682</td><td>406</td><td>007</td><td>1901</td><td>TR</td><td>JC556A</td></tr> <tr><td>Q801</td><td>405</td><td>118</td><td>4217</td><td>TR</td><td>PH2369</td></tr> </table>			Q001	406	007	2106	TR	JC546A	Q1001	406	007	1901	TR	JC556A	Q1002	406	007	2106	TR	JC546A	Q1003	406	007	2106	TR	JC546A	Q1004	406	007	2106	TR	JC546A	Q1005	406	007	2106	TR	JC546A	Q1041	406	007	2106	TR	JC546A	Q1042	406	007	1901	TR	JC556A	Q1043	406	007	2106	TR	JC546A	Q1201	406	007	2106	TR	JC546A	Q1202	406	007	2106	TR	JC546A	Q1203	406	007	2106	TR	JC546A	Q1204	406	007	2106	TR	JC546A	Q121	406	007	2106	TR	JC546A	Q151	406	007	1901	TR	JC556A	Q152	406	007	2106	TR	JC546A	Q153	406	007	1901	TR	JC556A	Q154	406	007	1901	TR	JC556A	Q171	406	007	2106	TR	JC546A	Q2001	406	007	2106	TR	JC546A	Q201	406	007	2106	TR	JC546A	Q202	406	007	2106	TR	JC546A	Q431	405	018	0616	TR	2SC3332- S	Q432	405	095	0209	TR	2SD1556- 3E	Q432- 1	610	252	1108	H	HEAT SINK E7LC	Q432- 5	610	252	0057	W	WIRE HOLDING HOOK- U- FWA	Q461	405	064	7307	TR	2SB1274- Q- RA	Q461- 1	610	251	5916	HEAT SINK PCC E7LC	Q462	406	007	2106	TR	JC546A	Q501	406	007	2106	TR	JC546A	Q611	406	007	1901	TR	JC556A	Q612	405	058	0208	TR	2SC3807- R- CTV- YA	Q613	405	095	0407	TR	2SC4429- L- YB	Q613- 1	610	251	5893	POW	HEAT SINK E7LC	Q641	406	007	2106	TR	JC546A	Q652	405	023	5019	TR	2SD400- E- MP- AE	Q681	405	059	9804	TR	2SD1913- Q- RA	Q682	406	007	1901	TR	JC556A	Q801	405	118	4217	TR	PH2369
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Q835	406 007 2106 TR	JC546A	C1105	403 009 5718 CERAMI C	100P J 50V
Q861	406 007 1901 TR	JC556A	C1106	403 069 1712 CERAMI C	1000P K 50V
Q871	406 007 2106 TR	JC546A	C1107	403 041 8804 ELECT	10U M 50V
Q872	406 007 2106 TR	JC546A	C1108	403 014 9213 CERAMI C	180P J 50V
Q873	406 007 2106 TR	JC546A	C1109	403 008 7416 CERAMI C	10P D 50V
Q874	406 007 2106 TR	JC546A	C114	401 037 5014 MT- GLAZE	0.000 ZA 1/10W
Q875	406 007 2106 TR	JC546A	C117	401 037 5014 MT- GLAZE	0.000 ZA 1/10W
INTEGRATED CIRCUIT			C120	403 069 9510 CERAMI C CHIP	0.01 Z 50V
IC001	409 301 4906 IC	TDA7263M	C1201	403 041 8804 ELECT	10U M 50V
IC1201	409 018 7603 IC	LA7016	C1202	403 041 8804 ELECT	10U M 50V
IC1202	409 120 3401 IC	LA7221	C1203	403 069 8305 CERAMI C	0.01U Z 50V
IC201	409 380 8703 IC	TDA8361/N5	C1205	403 009 5718 CERAMI C	100P J 50V
IC271	409 404 0201 IC	U3665M	C121	403 068 0419 CERAMI C	0.1U Z 25V
IC501	409 192 5709 IC	LA7833	C131	401 037 5014 MT- GLAZE	0.000 ZA 1/10W
IC651	409 365 2900 IC	BA178M12T	C132	403 069 1712 CERAMI C	1000P K 50V
IC652	409 365 2801 IC	BA178M08T	C133	403 069 9510 CERAMI C CHIP	0.01 Z 50V
IC801	410 292 4806 IC	SAA5297 APS /022	C134	403 050 6600 ELECT	3.3U M 50V
IC802	409 333 3700 IC	24LC02B/P	C135	403 068 0419 CERAMI C	0.1U Z 25V
IC810	409 019 6209 IC	LA7910	C136	403 194 4609 ELECT	470U M 16V
CAPACITOR			C137	403 068 0419 CERAMI C	0.1U Z 25V
C001A	403 068 0419 CERAMI C	0.1U Z 25V	C138	403 069 9510 CERAMI C CHIP	0.01 Z 50V
C002	403 070 9813 CHIP CERAMI C	0.015U K 50V	C141	403 028 4419 CERAMI C	56P J 50V
C003A	403 068 0419 CERAMI C	0.1U Z 25V	C142	403 068 0419 CERAMI C	0.1U Z 25V
C004	403 070 9813 CHIP CERAMI C	0.015U K 50V	C143	403 027 1211 CERAMI C	5P J 50V
C005	403 046 3507 ELECT	33U M 25V	C146	403 010 8517 CERAMI C	12P C 50V
C006	403 046 3507 ELECT	33U M 25V	C151	403 024 2112 CERAMI C	39P J 50V
C007	403 237 7941 MT- COMPO	0.22U J 50V	C162	403 068 0419 CERAMI C	0.1U Z 25V
C008	403 237 7941 MT- COMPO	0.22U J 50V	C171	403 237 8057 MT- COMPO	0.1U J 50V
C009	403 237 7941 MT- COMPO	0.22U J 50V	C1901	403 069 1712 CERAMI C	1000P K 50V
C010	403 237 7941 MT- COMPO	0.22U J 50V	C200	403 068 0419 CERAMI C	0.1U Z 25V
C011	403 154 1907 ELECT	1000U M 25V	C2001	403 068 0419 CERAMI C	0.1U Z 25V
C012	403 154 1907 ELECT	1000U M 25V	C2002	403 068 0419 CERAMI C	0.1U Z 25V
C013	403 069 9510 CERAMI C CHIP	0.01 Z 50V	C2003	403 068 0419 CERAMI C	0.1U Z 25V
C014	403 069 9510 CERAMI C CHIP	0.01 Z 50V	C201	403 014 3419 CERAMI C	18P J 50V
C015	403 047 3100 ELECT	47U M 25V	C202	403 237 8057 MT- COMPO	0.1U J 50V
C016	403 085 4008 NP- ELECT	10U M 16V	C203	403 073 9117 CERAMI C	4700P K 50V
C017	403 085 4008 NP- ELECT	10U M 16V	C204	403 068 0419 CERAMI C	0.1U Z 25V
C018	403 069 9510 CERAMI C CHIP	0.01 Z 50V	C205	403 068 0419 CERAMI C	0.1U Z 25V
C021	403 052 8503 ELECT	1000U M 35V	C206	403 068 0419 CERAMI C	0.1U Z 25V
C023	403 069 9510 CERAMI C CHIP	0.01 Z 50V	C207	403 068 0419 CERAMI C	0.1U Z 25V
C024	403 069 9510 CERAMI C CHIP	0.01 Z 50V	C208	403 068 0419 CERAMI C	0.1U Z 25V
C1001	403 069 1712 CERAMI C	1000P K 50V	C209	403 069 1712 CERAMI C	1000P K 50V
C1002	403 041 8804 ELECT	10U M 50V	C212	403 049 9803 ELECT	2.2U M 50V
C1003	403 009 5718 CERAMI C	100P J 50V	C215	403 067 7895 MT- COMPO	0.47 J 50V
C1004	403 130 3119 CERAMI C	0.047U K 50V	C222	404 045 6605 NP- ELECT	2.2U M 50V
C1005	403 069 1712 CERAMI C	1000P K 50V	C226	403 138 1602 ELECT	1U M 100V
C1006	403 041 8804 ELECT	10U M 50V	C231	403 068 0419 CERAMI C	0.1U Z 25V
C1007	403 009 5718 CERAMI C	100P J 50V	C232	403 014 9213 CERAMI C	180P J 50V
C1008	403 130 3119 CERAMI C	0.047U K 50V	C233	403 068 0419 CERAMI C	0.1U Z 25V
C1009	403 041 8804 ELECT	10U M 50V	C234	403 013 3004 CERAMI C	150P J 50V
C101	403 194 4609 ELECT	470U M 16V	C235	403 008 7416 CERAMI C	10P D 50V
C102	403 248 1618 ELECT	47U M 16V	C271	403 069 1712 CERAMI C	1000P K 50V
C1021	403 069 1712 CERAMI C	1000P K 50V	C272	403 069 1712 CERAMI C	1000P K 50V
C1022	403 041 8804 ELECT	10U M 50V	C273	403 069 9510 CERAMI C CHIP	0.01 Z 50V
C1023	403 009 5718 CERAMI C	100P J 50V	C274	403 041 8804 ELECT	10U M 50V
C1024	403 041 9405 ELECT	10U M 16V	C351	403 237 8057 MT- COMPO	0.1U J 50V
C1025	403 069 1712 CERAMI C	1000P K 50V	C352	403 179 1015 POLYESTER	0.047U J 50V
C1026	403 041 8804 ELECT	10U M 50V	C353	403 073 9117 CERAMI C	4700P K 50V
C1027	403 009 5718 CERAMI C	100P J 50V	C354	403 049 0008 ELECT	1U M 50V
C1028	403 041 8804 ELECT	10U M 16V	C361	403 072 5615 CERAMI C	2700P K 50V
C1029	403 041 9405L ELECT	10U M 50V	C362	403 069 9510 CERAMI C CHIP	0.01 Z 50V
C103A	403 069 9510 CERAMI C CHIP	0.01 Z 50V	C363	403 233 0312 ELECT	100U M 16V
C1031	403 014 9213 CERAMI C	180P J 50V	△ C421	404 046 8806 MT- POLYPRO	6200P J 1.5K
C104	403 248 1618 ELECT	47U M 16V	C422	403 299 3210 POLYPRO	0.027U J 400V
C1041	403 041 9405 ELECT	10U M 50V	△ C423	404 040 7805 MT- POLYPRO	5600P J 1.5K
C106	403 049 0008 ELECT	1U M 50V	C424	403 083 3409 POLYPRO	0.015U J 400V
C106B	403 069 9510 CERAMI C CHIP	0.01 Z 50V	C430	403 075 7111 CERAMI C	1000P K 500V
C1101	403 049 4204 ELECT	10U M 50V	C431	403 068 5612 CERAMI C	0.056U Z 25V
C1103	403 069 1712 CERAMI C	1000P K 50V	C432	403 075 7111 CERAMI C	1000P K 500V
C1104	403 049 4204 ELECT	10U M 50V	C433	403 076 3112 CERAMI C	3900P K 500V
			C434	403 229 1217 ELECT	47U M 35V
			C437	403 066 6116 MT- POLYEST	0.47U J 250V

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
C438	403 178 9319	POLYESTER 0.01U J 50V	RESISTOR		
C441	403 309 2100	POLYPRO 0.3U J 400V	R001	401 037 5410	MT- GLAZE 1K JA 1/10W
C445	403 041 8804	ELECT 10U M 50V	R003	401 037 5410	MT- GLAZE 1K JA 1/10W
C462	403 049 0008	ELECT 1U M 50V	R005	401 019 9640	CARBON 47 JA 1/4W
C463	403 237 8057	MT- COMPO 0.1U J 50V	R006	401 014 4145	CARBON 1K5 JA 1/4W
C464	403 255 8934	MT- COMPO 0.39U J 50V	R007	401 019 9640	CARBON 47 JA 1/4W
C465	403 066 0104	MT- POLYEST 2.2U K 100V	R008	401 014 4145	CARBON 1K5 JA 1/4W
C467	403 241 3817	ELECT 220U M 10V	R009	401 010 1514	CARBON 4.7 JA 1/2W
C468	403 217 1103	ELECT 22U M 50V	R010	401 010 1514	CARBON 4.7 JA 1/2W
C470	403 069 8315	CERAM C 0.01U Z 50V	R011	401 007 7641	CARBON 150 JA 1/2W
C481	403 076 1405	CERAM C 2700P K 500V	R012	401 007 7641	CARBON 150 JA 1/2W
C482	403 159 7409	MT- POLYEST 0.1U K 250V	R013	401 037 6714	MT- GLAZE 1.2K JA 1/10W
C501	403 054 1502	ELECT 470U M 35V	R014	401 016 2644	CARBON 220 JA 1/4W
C502	403 053 2104	ELECT 220U M 35V	R015	401 037 5410	MT- GLAZE 1K JA 1/10W
C503	403 024 2112	CERAM C 39P J 50V	R016	401 038 6515	MT- GLAZE 47K JA 1/10W
C504	403 069 9510	CERAM C CHIP 0.01 Z 50V	R017	401 037 5618	MT- GLAZE 10K JA 1/10W
C505	403 075 7111	CERAM C 1000P K 500V	R100	401 037 5014	MT- GLAZE 0.000 ZA 1/10W
C506	403 183 7901	MT- POLYEST 0.1U K 100V	R1001	401 038 7611	MT- GLAZE 560 JA 1/10W
C511	403 188 1607	MT- POLYPRO 0.1U J 100V	R1002	401 038 0711	MT- GLAZE 2.2K JA 1/10W
C512	403 148 0701	ELECT 2200U M 25V	R1003	401 038 7611	MT- GLAZE 560 JA 1/10W
C513	403 041 8804	ELECT 10U M 50V	R1004	401 038 0711	MT- GLAZE 2.2K JA 1/10W
C514	403 041 8804	ELECT 10U M 50V	R1005	401 027 6628	CARBON 75 JA 1/6W
C600	403 076 4000	CERAM C 4700P K 500V	R1006	401 038 5310	MT- GLAZE 39K JA 1/10W
△ C601	404 047 3602	MT- POLYEST 0.1U M 250V	R1007	401 038 3712	MT- GLAZE 33K JA 1/10W
△ C602	404 047 3602	MT- POLYEST 0.1U M 250V	R1008	401 027 6628	CARBON 75 JA 1/6W
C603	403 076 7130	CERAM C 1000P M 1K	R1009	401 027 6628	CARBON 75 JA 1/6W
C604	403 076 7130	CERAM C 1000P M 1K	R101	401 037 5014	MT- GLAZE 0.000 ZA 1/10W
C605	403 076 7130	CERAM C 1000P M 1K	R1010	401 027 6628	CARBON 75 JA 1/6W
C606	403 076 7130	CERAM C 1000P M 1K	R1011	401 037 5212	MT- GLAZE 100 JA 1/10W
C607	404 047 1608	ELECT 270U M 385V	R1012	401 027 6628	CARBON 75 JA 1/6W
C613	403 179 1213	POLYESTER 4700P J 50V	R1013	401 012 4543	CARBON 100 JA 1/4W
C614	403 237 8057	MT- COMPO 0.1U J 50V	R1014	401 027 6628	CARBON 75 JA 1/6W
C615	403 179 3217	POLYESTER 0.015U J 50V	R1015	401 038 6416	MT- GLAZE 4.7K JA 1/10W
C616	403 165 6205	CERAM C 1000P K 2K	R1016	401 019 1040	CARBON 390 JA 1/4W
C617	403 059 6205	POLYESTER 0.022U K 50V	R1017	401 024 7430	CARBON 10K JA 1/6W
△ C631	404 060 6505	CERAM C 2200P M 400V	R1018	401 038 3514	MT- GLAZE 330 JA 1/10W
△ C632	404 044 2806	CERAM C 470P K 400V	R1021	401 038 7611	MT- GLAZE 560 JA 1/10W
C640	403 069 8305	CERAM C 0.01U Z 50V	R1022	401 038 0711	MT- GLAZE 2.2K JA 1/10W
C641	403 165 9335	CERAM C 680P K 1K	R1023	401 038 7611	MT- GLAZE 560 JA 1/10W
C642	404 055 9801	ELECT 220U M 200V	R1024	401 038 0711	MT- GLAZE 2.2K JA 1/10W
C643	403 148 2002	ELECT 470U M 35V	R1025	401 038 5310	MT- GLAZE 39K JA 1/10W
C644	403 148 0701	ELECT 2200U M 25V	R1026	401 038 3712	MT- GLAZE 33K JA 1/10W
C645	403 158 1309	ELECT 2200U M 35V	R1027	401 027 6628	CARBON 75 JA 1/6W
C651	403 148 0305	ELECT 470U M 16V	R1028	401 027 6628	CARBON 75 JA 1/6W
C652	403 069 9510	CERAM C CHIP 0.01 Z 50V	R1029	401 014 2933	CARBON 150 JA 1/4W
C653	403 248 1618	ELECT 47U M 16V	R1031	401 038 0612	MT- GLAZE 220 JA 1/10W
C655	403 126 4400	ELECT 100U M 10V	R1032	401 038 0612	MT- GLAZE 220 JA 1/10W
C661	403 233 1507	ELECT 4.7U M 50V	R1033	401 038 0612	MT- GLAZE 220 JA 1/10W
C681	403 045 1504	ELECT 1000U M 25V	R1041	401 038 2210	MT- GLAZE 27K JA 1/10W
C682	403 069 9510	CERAM C CHIP 0.01 Z 50V	R1042	401 037 5618	MT- GLAZE 10K JA 1/10W
C683	403 147 9606	ELECT 1000U M 10V	R1043	401 039 0314	MT- GLAZE 820 JA 1/10W
C684	403 050 6600	ELECT 3.3U M 50V	R1044	401 039 0314	MT- GLAZE 820 JA 1/10W
C802	403 237 8057	MT- COMPO 0.1U J 50V	R1045	401 037 5410	MT- GLAZE 1K JA 1/10W
C812	403 049 0008	ELECT 1U M 50V	R1046	401 038 0711	MT- GLAZE 2.2K JA 1/10W
C814	403 049 0008	ELECT 1U M 50V	R1047	401 037 6714	MT- GLAZE 1.2K JA 1/10W
C816	403 233 1507	ELECT 4.7U M 50V	R1051	401 037 8114	MT- GLAZE 150K JA 1/10W
C818	403 233 1507	ELECT 4.7U M 50V	R1052	401 037 5717	MT- GLAZE 100K JA 1/10W
C841	403 069 9510	CERAM C CHIP 0.01 Z 50V	R1053	401 037 6714	MT- GLAZE 1.2K JA 1/10W
C861	403 179 1213	POLYESTER 4700P J 50V	R1054	401 037 8114	MT- GLAZE 150K JA 1/10W
C871	403 068 0419	CERAM C 0.1U Z 25V	R1055	401 037 5717	MT- GLAZE 100K JA 1/10W
C872	403 248 1618	ELECT 47U M 16V	R1056	401 037 6714	MT- GLAZE 1.2K JA 1/10W
C873	403 018 0513	CERAM C 22P J 50V	R108	401 037 5014	MT- GLAZE 0.000 ZA 1/10W
C874	403 018 0513	CERAM C 22P J 50V	R110	401 037 5014	MT- GLAZE 0.000 ZA 1/10W
C875	403 068 0419	CERAM C 0.1U Z 25V	R1101	401 027 6628	CARBON 75 JA 1/6W
C878	403 073 9117	CERAM C 4700P K 50V	R1102	401 037 7810	MT- GLAZE 150 JA 1/10W
C879	403 068 0419	CERAM C 0.1U Z 25V	R1103	401 038 0711	MT- GLAZE 2.2K JA 1/10W
C881	403 069 9510	CERAM C CHIP 0.01 Z 50V	R1104	401 038 0711	MT- GLAZE 2.2K JA 1/10W
C882	403 041 8804	ELECT 10U M 50V	R1105	401 037 5717	MT- GLAZE 100K JA 1/10W
C883	403 018 0513	CERAM C 22P J 50V	R1106	401 037 5717	MT- GLAZE 100K JA 1/10W
C884	403 018 0513	CERAM C 22P J 50V	R1111	401 037 5618	MT- GLAZE 10K JA 1/10W
C892	403 069 9510	CERAM C CHIP 0.01 Z 50V	R1200	401 022 1935	CARBON 680 JA 1/4W
			R1201	401 038 6515	MT- GLAZE 47K JA 1/10W

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R1202	401 038 6515	MT- GLAZE 47K JA 1/10W	R272	401 024 9028	CARBON 120 JA 1/6W
R1203	401 037 5618	MT- GLAZE 10K JA 1/10W	R351	401 037 5212	MT- GLAZE 100 JA 1/10W
R1204	401 038 2210	MT- GLAZE 27K JA 1/10W	R352	401 037 5816	MT- GLAZE 1M JA 1/10W
R1205	401 038 2210	MT- GLAZE 27K JA 1/10W	R353	401 038 0919	MT- GLAZE 220K JA 1/10W
R1206	401 038 6515	MT- GLAZE 47K JA 1/10W	R354	401 024 7727	CARBON 100K JA 1/6W
R1207	401 012 7049	CARBON 10K JA 1/4W	R355	401 012 9904	CARBON 10M JA 1/4W
R1208	401 038 0810	MT- GLAZE 22K JA 1/10W	R356	401 037 5212	MT- GLAZE 100 JA 1/10W
R1209	401 012 7049	CARBON 10K JA 1/4W	R357	401 037 5618	MT- GLAZE 10K JA 1/10W
R121	401 020 2944	CARBON 47K JA 1/4W	R361	401 038 5419	MT- GLAZE 390K JA 1/10W
R133	401 037 9111	MT- GLAZE 180 JA 1/10W	R363	401 038 0810	MT- GLAZE 22K JA 1/10W
R134	401 038 9219	MT- GLAZE 6. 8K JA 1/10W	R364	401 037 5212	MT- GLAZE 100 JA 1/10W
R135	401 038 6515	MT- GLAZE 47K JA 1/10W	R365	401 038 6416	MT- GLAZE 4. 7K JA 1/10W
R137	401 037 5212	MT- GLAZE 100 JA 1/10W	R431	401 038 3514	MT- GLAZE 330 JA 1/10W
R138	401 038 7710	MT- GLAZE 5. 6K JA 1/10W	R432	401 037 5410	MT- GLAZE 1K JA 1/10W
R141	401 038 9219	MT- GLAZE 6. 8K JA 1/10W	R433	401 007 1134	CARBON 1K JA 1/2W
R150	401 024 7024	CARBON 1K JA 1/6W	R434	401 067 9201	OXI DE- MT 390 JA 2W
R151	401 022 1935	CARBON 680 JA 1/4W	R435	402 075 2307	WI RE WOUND 10 JA 5W
R152	401 025 3827	CARBON 180 JA 1/6W	R436	401 012 7049	CARBON 10K JA 1/4W
R153	401 037 5410	MT- GLAZE 1K JA 1/10W	R441	401 058 3706	OXI DE- MT 1K JA 1W
R154	401 038 2111	MT- GLAZE 2. 7K JA 1/10W	R447	401 026 9927	CARBON 4K7 JA 1/6W
R155	401 037 5410	MT- GLAZE 1K JA 1/10W	R448	401 009 5843	CARBON 330 JA 1/2W
R156	401 037 5410	MT- GLAZE 1K JA 1/10W	R451	401 064 5305	OXI DE- MT 1. 5 JA 2W
R157	401 039 0918	MT- GLAZE 910 JA 1/10W	R462	401 014 4145	CARBON 1K5 JA 1/4W
R158	401 037 5410	MT- GLAZE 1K JA 1/10W	R463	401 025 4220	CARBON 1K8 JA 1/6W
R159	401 022 1935	CARBON 680 JA 1/4W	R467	401 025 8723	CARBON 220K JA 1/6W
R163	401 038 6515	MT- GLAZE 47K JA 1/10W	R468	401 025 4220	CARBON 1K8 JA 1/6W
R171	401 038 6317	MT- GLAZE 470 JA 1/10W	R469	401 027 5928	CARBON 68K JA 1/6W
R172	401 016 2644	CARBON 220 JA 1/4W	R470	401 027 0329	CARBON 47K JA 1/6W
R173	401 025 7429	CARBON 220 JA 1/6W	R471	401 025 1625	CARBON 1K5 JA 1/6W
R1900	401 037 5717	MT- GLAZE 100K JA 1/10W	R472	401 027 0329	CARBON 47K JA 1/6W
R1901	401 038 0810	MT- GLAZE 22K JA 1/10W	R473	401 027 5225	CARBON 680 JA 1/6W
R1901A	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W	R474	401 009 0927	CARBON 270 JA 1/2W
R1902	401 039 0413	MT- GLAZE 8. 2K JA 1/10W	R481	401 015 4738	CARBON 180K JA 1/4W
R1902A	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W	R482	401 027 2620	CARBON 5K6 JA 1/6W
R1903	401 038 7710	MT- GLAZE 5. 6K JA 1/10W	R501	401 020 2053	CARBON 4. 7K JA 1/4W
R1903A	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W	R502	402 002 2004	FUSIBLE RES 4. 7 J- 1/2W
R1904	401 038 3613	MT- GLAZE 3. 3K JA 1/10W	R504	401 027 3023	CARBON 56K JA 1/6W
R1905	401 038 0711	MT- GLAZE 2. 2K JA 1/10W	R505	401 026 7022	CARBON 3K9 JA 1/6W
R1906	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W	R506	401 016 3849	CARBON 2. 2K JA 1/4W
R1907	401 037 5618	MT- GLAZE 10K JA 1/10W	R507	401 024 6720	CARBON 100 JA 1/6W
R1908	401 038 9011	MT- GLAZE 680 JA 1/10W	R508	401 025 1605	CARBON 1. 5K JA 1/6W
R1909	401 037 7919	MT- GLAZE 1. 5K JA 1/10W	R509	401 057 7507	OXI DE- MT 0. 82 JA 1W
R1911	401 038 6317	MT- GLAZE 470 JA 1/10W	R511	401 062 1200	OXI DE- MT 470 JA 1W
R1921	401 037 6615	MT- GLAZE 120 JA 1/10W	R513	401 058 3706	OXI DE- MT 1K JA 1W
R1922	401 038 5013	MT- GLAZE 390 JA 1/10W	R521	402 037 1805	FUSIBLE RES 4. 7 J- 1W
R1924	401 022 3147	CARBON 6K8 JA 1/4W	R602	402 072 4403	WI RE WOUND 3. 9 KA 7W
R2001	401 038 2210	MT- GLAZE 27K JA 1/10W	R611	401 027 2620	CARBON 5K6 JA 1/6W
R2002	401 037 5618	MT- GLAZE 10K JA 1/10W	R615	401 025 8228	CARBON 22K JA 1/6W
R2004	401 037 7810	MT- GLAZE 150 JA 1/10W	R617	401 024 7024	CARBON 1K JA 1/6W
R2005	401 019 1941	CARBON 3K9 JA 1/4W	R619	401 016 1538	CARBON 22 JA 1/4W
R201	401 039 0413	MT- GLAZE 8. 2K JA 1/10W	R620	401 007 5815	CARBON 120K JA 1/2W
R202	401 037 5717	MT- GLAZE 100K JA 1/10W	R621	401 007 5815	CARBON 120K JA 1/2W
R203	401 024 6720	CARBON 100 JA 1/6W	R622	401 014 5241	CARBON 15K JA 1/4W
R204	401 024 6720	CARBON 100 JA 1/6W	R623	401 025 4220	CARBON 1K8 JA 1/6W
R205	401 024 6720	CARBON 100 JA 1/6W	R624	401 068 6902	OXI DE- MT 56 JA 2W
R206	401 037 5212	MT- GLAZE 100 JA 1/10W	R625	401 065 9609	OXI DE- MT 18 JA 2W
R207	401 037 5212	MT- GLAZE 100 JA 1/10W	R626	401 016 3344	QARBON 2. 2K GA 1/4W
R208	401 037 5212	MT- GLAZE 100 JA 1/10W	△ R631	402 000 8602	SOLI D 5. 6M KA 1/2W
R212	401 017 1844	CARBON 2K7 JA 1/4W	△ R632	402 000 8602	SOLI D 5. 6M KA 1/2W
R213	401 038 7710	MT- GLAZE 5. 6K JA 1/10W	R641	401 014 6149	CARBON 150K JA 1/4W
R214	401 037 5212	MT- GLAZE 100 JA 1/10W	R642	401 027 4327	CARBON 6. 2K JA 1/6W
R215	401 038 3712	MT- GLAZE 33K JA 1/10W	R643	401 015 4738	CARBON 180K JA 1/4W
R216	401 016 4836	CARBON 22K JA 1/4W	R644	401 011 2718	CARBON 68K JA 1/2W
R217	401 016 4836	CARBON 22K JA 1/4W	R645	401 025 8228	CARBON 22K JA 1/6W
R218	401 038 7819	MT- GLAZE 56K JA 1/10W	R646	402 069 9800	WI RE WOUND 2. 7 KA 5W
R223	401 014 0305	CARBON 130K JA 1/4W	R647	402 076 0609	WI RE WOUND 8. 2 KA 7W
R224	401 024 7024	CARBON 1K JA 1/6W	R648	401 026 9927	CARBON 4K7 JA 1/6W
R226	401 026 7428	CARBON 39K JA 1/6W	R651	401 064 3806	OXI DE- MT 1 JA 2W
R227	401 012 7049	CARBON 10K JA 1/4W	R652	401 065 1801	OXI DE- MT 12 JA 2W
R231	401 037 7810	MT- GLAZE 150 JA 1/10W	R653	401 067 8204	OXI DE- MT 39 JA 2W
R232	401 037 7810	MT- GLAZE 150 JA 1/10W	R655	401 067 4206	OXI DE- MT 33 JA 2W
R271	401 024 6720	CARBON 100 JA 1/6W	R656	401 026 9620	CARBON 470 JA 1/6W

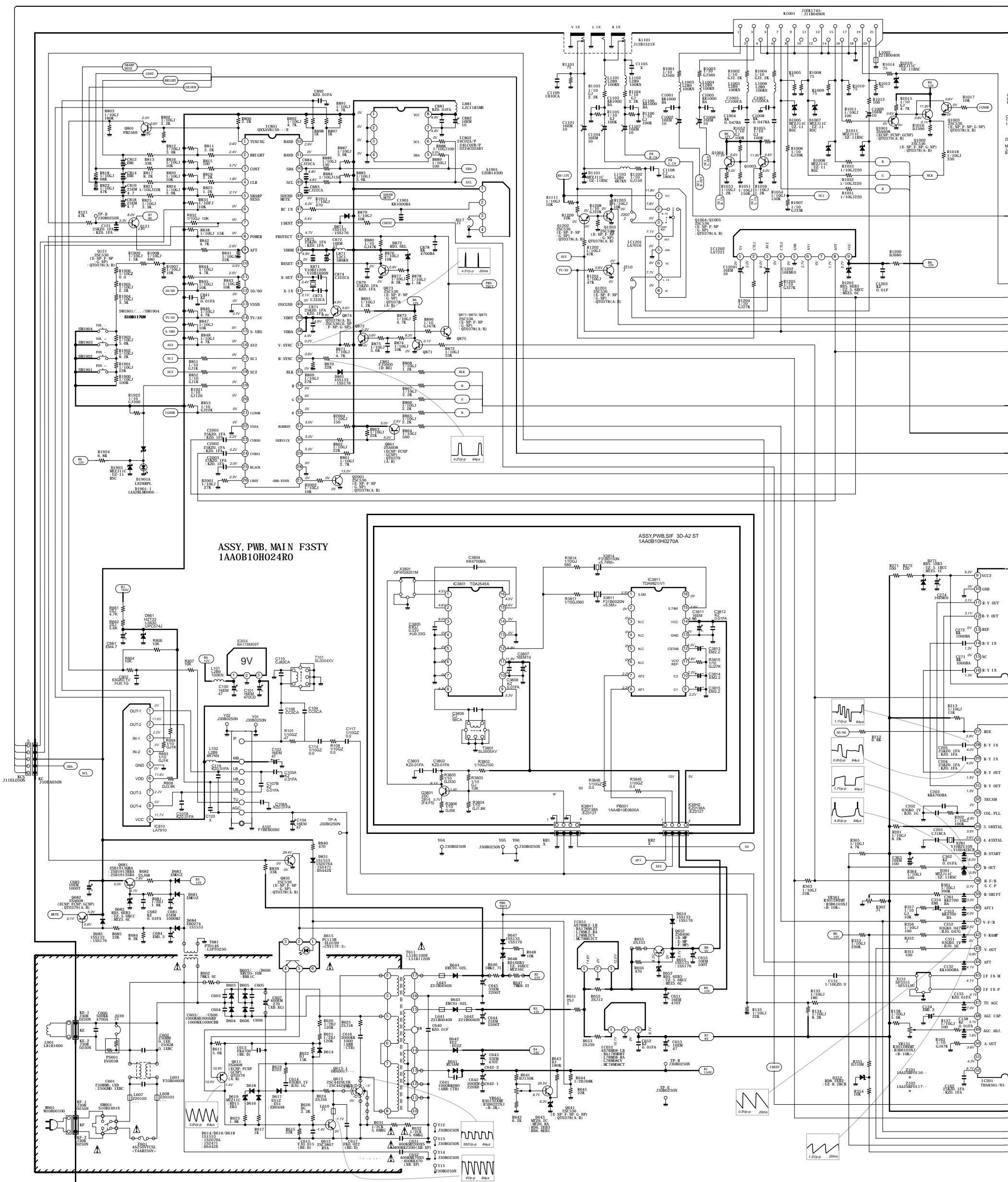
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
DIODE			D831	408 007 8607	DIODE 1N4148
D1005	407 063 8319	ZENER DIODE MTZJ11C	D861	407 012 4416	DIODE 1SS133-T-77
D1007	407 063 8319	ZENER DIODE MTZJ11C	D871	407 012 4416	DIODE 1SS133-T-77
D1008	407 063 8319	ZENER DIODE MTZJ11C	D872	407 055 7927	ZENER DIODE RD3. 6EL
D1010	407 063 8319	ZENER DIODE MTZJ11C	MISCELLANEOUS		
D1011	407 063 8319	ZENER DIODE MTZJ11C	A101	645 017 2571	TUNER, HYPER ALPS
D1021	407 063 8319	ZENER DIODE MTZJ11C	A1901	645 020 9277	UNI T, REMOCON RECEIVER
D1022	407 063 8319	ZENER DIODE MTZJ11C	△ F601	423 022 2102	FUSE 250V 4. 0A
D1023	407 063 8319	ZENER DIODE MTZJ11C	F601A	645 000 5077	HOLDER, FUSE
D1024	407 063 8319	ZENER DIODE MTZJ11C	F601B	645 000 5077	HOLDER, FUSE
D1026	407 063 8319	ZENER DIODE MTZJ11C	J025	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
D1027	407 063 8319	ZENER DIODE MTZJ11C	J130	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
D1101	407 063 8319	ZENER DIODE MTZJ11C	J225	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
D1201	407 053 6803	ZENER DIODE MTZ5. 6C	J226	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
D131	CUTTING WIRE		J231	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
D135	407 063 8319	ZENER DIODE MTZJ11C	J232	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
D1901- 1	610 269 4697	HOLDER LED A- E7GC	J233	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
D1901A	407 120 9706	LED LN28RPL	J234	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
D1903	407 063 8319	ZENER DIODE MTZJ11C	J235	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
D1905	407 012 4416	DIODE 1SS133-T- 77	J236	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
D201	407 063 8319	ZENER DIODE MTZJ11C	J237	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
D202	407 063 8319	ZENER DIODE MTZJ11C	J238	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
D203	407 063 8319	ZENER DIODE MTZJ11C	J239	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
D210	407 012 4416	DIODE 1SS133-T- 77	J240	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
D221	407 012 4416	DIODE 1SS133-T- 77	J241	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
D222	408 007 8607	DIODE 1N4148	J242	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
D271	407 053 6407	ZENER DIODE MTZ5. 1C	J243	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
D352	407 053 8302	ZENER DIODE MTZ8. 2B- T- 77	J245	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
D361	407 075 9925	ZENER DIODE EQA03- 11A	J246	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
D431	407 053 8708	ZENER DIODE MTZ9. 1A- T- 77	J247	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
D432	407 005 7328	DIODE EMO1Z	KA	645 005 8592	SOCKET, 10P
D438	407 095 8001	DIODE ERD07- 15L	KB	645 005 8592	SOCKET, 10P
D439	407 006 4128	DIODE ERB44- 04V1	KC	645 008 7288	HOUSING PLUG 5P
D442	408 007 8607	DIODE 1N4148	KDY- 1	645 008 4058	TERMI NAL PLUG
D445	407 012 4416	DIODE 1SS133-T- 77	KDY- 3	645 008 4058	TERMI NAL PLUG
D446	407 151 9003	ZENER DIODE UZ- 7. 5BCC	KDY- 5	645 008 4058	TERMI NAL PLUG
D464	407 053 6605	ZENER DIODE MTZ5. 6A- T- 77	KDY- 6	645 008 4058	TERMI NAL PLUG
D465	407 012 4416	DIODE 1SS133-T- 77	KE- 1	645 008 4058	TERMI NAL PLUG
D466	407 077 9705	ZENER DIODE MTZT- 77- 20A	KE- 2	645 008 4058	TERMI NAL PLUG
D469	407 007 7415	DIODE EU1	KF- 1	645 008 4058	TERMI NAL PLUG
D481	407 007 7415	DIODE EU1	KF- 2	645 008 4058	TERMI NAL PLUG
D482	407 012 4416	DIODE 1SS133-T- 77	KL	645 004 2881	PLUG, 2P
D501	407 005 7328	DIODE EMO1Z	KP	645 008 7288	HOUSING PLUG 5P
D502	407 118 2217	ZENER DIODE 1Z75	KQ	645 008 7264	HOUSING PLUG 3P
D603	407 009 6921	DIODE RM11C	KR- 1	645 008 4058	TERMI NAL PLUG
D604	407 009 6921	DIODE RM11C	KR- 2	645 008 4058	TERMI NAL PLUG
D605	407 009 6921	DIODE RM11C	KS	645 008 7264	HOUSING PLUG 3P
D606	407 009 6921	DIODE RM11C	KSC	645 008 4058	TERMI NAL PLUG
D614	408 007 8607	DIODE 1N4148	KU	645 004 2881	PLUG, 2P
△ D615	408 009 8407	PHOTO COUPLE CNY17GF- 3	K001	645 005 5706	PHONE JACK(MINIATURE JACK
D616	408 007 8607	DIODE 1N4148	K10B	645 008 7288	HOUSING PLUG 5P
D617	407 007 6616	DIODE ES1	K1001	645 005 5867	21- PIN SOCKET
D618	408 007 8607	DIODE 1N4148	K1001Z	610 261 2813	MOUNTING BRKT- F2W
D619	407 053 3000	ZENER DIODE MTZ11C	K1002	645 005 5867	21- PIN SOCKET
D641	407 009 8816	DIODE RU3AM	K1002Z	610 261 2813	MOUNTING BRKT- F2W
D642	407 007 7613	DIODE EU2	K11A	645 004 2881	PLUG, 2P
D643	407 166 2303	DIODE ERC- 91- 02L	K1101	645 016 6433	JACK, RCA- 3
D644	407 166 2303	DIODE ERC- 91- 02L	△ PS601	408 013 3801	TH PTH451C262BF140M270
D645	407 053 7206	ZENER DIODE MTZ6. 2C- T- 77	SW1901	610 011 4432	SWI TCH, PUSH
D647	407 012 4416	DIODE 1SS133-T- 77	SW1902	610 011 4432	SWI TCH, PUSH
D648	407 048 9901	ZENER DIODE EQA02- 25A	SW1903	610 011 4432	SWI TCH, PUSH
D651	CUTTING WIRE		SW1904	610 011 4432	SWI TCH, PUSH
D652	407 053 6803	ZENER DIODE MTZ5. 6C- T- 77	SW501	610 011 2728	SWI TCH, LEVER 1P- 3T
D654	407 012 4416	DIODE 1SS133-T- 77	△ SW601	645 024 0607	PUSH SW POWER SDDFC3
D655	407 012 4416	DIODE 1SS133-T- 77	TP- A	645 008 4058	TERMI NAL PLUG
D661	409 026 8005	IC L5630	TP- B	645 008 4058	TERMI NAL PLUG
D681	407 005 7328	DIODE EMO1Z	TP- D	645 008 4058	TERMI NAL PLUG
D682	407 053 6803	ZENER DIODE MTZ5. 6C	TP- E	645 008 4058	TERMI NAL PLUG
D683	407 005 7328	DIODE EMO1Z	X131	421 002 2609	SAW F TSF5315
D684	408 007 8607	DIODE 1N4148	X151	1AV4F32B0140	EFC- S5R5MW3AS (5. 5B)
D685	407 012 4416	DIODE 1SS133-T- 77	X152	645 000 4490	TRAP, CERAMI C (6. 5W3)
D817TM	408 007 8607	DIODE 1N4148			

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
X201	645 025 2631	OSC. CRYSTAL 4. 43MHZ	Q3484	405 109 4407	TR BC848
X871	645 018 9593	OSC. CRYSTAL 12MHZ	INTEGRATED CIRCUIT		
Y01	645 008 4058	TERMI NAL PLUG	IC1251	409 009 2501	IC HD14052BP
Y02	645 008 4058	TERMI NAL PLUG	IC3401	409 371 6206	IC TDA9840/V2
Y04	645 008 4058	TERMI NAL PLUG	CAPACITOR		
Y05	645 008 4058	TERMI NAL PLUG	C1251	403 041 8804	ELECT 10U M 50V
Y06	645 008 4058	TERMI NAL PLUG	C3401	403 041 8804	ELECT 10U M 50V
Y07	645 008 4058	TERMI NAL PLUG	C3402	403 069 5611	CERAMI C 0. 01U K 50V
Y08	645 008 4058	TERMI NAL PLUG	C3403	403 068 0419	CERAMI C 0. 1U Z 25V
Y09	645 008 4058	TERMI NAL PLUG	C3404	403 310 5018	CERAMI C 3300P G 25V
Y10	645 008 4058	TERMI NAL PLUG	C3405	403 233 0312	ELECT 100U M 16V
Y11	645 008 4058	TERMI NAL PLUG	C3406	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
Y12	645 008 4058	TERMI NAL PLUG	C3407	403 026 2813	CERAMI C 47P J 50V
Y13	645 008 4058	TERMI NAL PLUG	C3408	403 049 9803	ELECT 2. 2U M 50V
Y14	645 008 4058	TERMI NAL PLUG	C3409	403 049 9803	ELECT 2. 2U M 50V
Y15	645 008 4058	TERMI NAL PLUG	C3411	403 069 5611	CERAMI C 0. 01U K 50V
Z101	610 259 7813	SHIELD CASE- A- F2RC	C3412	403 069 5611	CERAMI C 0. 01U K 50V
Z102	610 259 7820	SHIELD CASE- B- F2RC	C3421	403 069 9510	CERAMI C CHIP 0. 01 Z 50V
ASSY,PWB,SIF 3D-A2 ST 1AA0B10H0270A			C3422	403 041 8804	ELECT 10U M 50V
TRANSISTOR			C3485	403 179 4501	NP- ELECT 0. 47U M 50V
Q3801	405 015 9711	TR 2SC2814- F4- TA	C3486	403 179 4501	NP- ELECT 0. 47U M 50V
INTEGRATED CIRCUIT			RESISTOR		
IC3801	409 290 4307	IC TDA2545A/V4	R1251	401 038 2111	MT- GLAZE 2. 7K JA 1/10W
IC3811	409 376 6300	IC TDA9821/V1	R1252	401 038 9219	MT- GLAZE 6. 8K JA 1/10W
CAPACITOR			R1253	401 039 0512	MT- GLAZE 82K JA 1/10W
C3802	403 069 9510	CERAMI C CHIP 0. 01 Z 50V	R1254	401 039 0512	MT- GLAZE 82K JA 1/10W
C3803	403 069 9510	CERAMI C CHIP 0. 01 Z 50V	R1256	401 039 0512	MT- GLAZE 82K JA 1/10W
C3804	403 073 9117	CERAMI C 4700P K 50V	R1257	401 038 6317	MT- GLAZE 470 JA 1/10W
C3805	403 166 8010	MT- POLYEST 0. 33U J 63V	R1258	401 038 0711	MT- GLAZE 2. 2K JA 1/10W
C3806	403 028 4112	CERAMI C 56P J 50V	R1262	401 039 0512	MT- GLAZE 82K JA 1/10W
C3807	403 041 8804	ELECT 10U M 50V	R1263	401 039 0512	MT- GLAZE 82K JA 1/10W
C3808	403 069 9510	CERAMI C CHIP 0. 01 Z 50V	R1264	401 039 0512	MT- GLAZE 82K JA 1/10W
C3811	403 041 8804	ELECT 10U M 50V	R1265	401 038 6317	MT- GLAZE 470 JA 1/10W
C3812	403 069 9510	CERAMI C CHIP 0. 01 Z 50V	R1266	401 038 0711	MT- GLAZE 2. 2K JA 1/10W
C3813	403 049 9803	ELECT 2. 2U M 50V	R3401	401 037 5212	MT- GLAZE 100 JA 1/10W
C3814	403 049 9803	ELECT 2. 2U M 50V	R3402	401 037 5212	MT- GLAZE 100 JA 1/10W
C3815	403 049 9803	ELECT 2. 2U M 50V	R3403	401 038 3118	MT- GLAZE 30K JA 1/10W
RESISTOR			R3477	401 038 0711	MT- GLAZE 2. 2K JA 1/10W
R3802	401 037 5212	MT- GLAZE 100 JA 1/10W	R3479	401 038 0711	MT- GLAZE 2. 2K JA 1/10W
R3803	401 037 5618	MT- GLAZE 10K JA 1/10W	R3481	401 038 0711	MT- GLAZE 2. 2K JA 1/10W
R3804	401 037 9210	MT- GLAZE 1. 8K JA 1/10W	R3482	401 038 0711	MT- GLAZE 2. 2K JA 1/10W
R3805	401 038 3514	MT- GLAZE 330 JA 1/10W	TRANSFORMER		
R3806	401 038 7512	MT- GLAZE 56 JA 1/10W	T3401	645 015 7943	COIL, FERRITE 2. 5M
R3811	401 038 7611	MT- GLAZE 560 JA 1/10W	MISCELLANEOUS		
R3814	401 038 7611	MT- GLAZE 560 JA 1/10W	J1203	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
R3815	401 038 2210	MT- GLAZE 27K JA 1/10W	J1204	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
R3845	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W	J3401	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
R3846	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W	J3402	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
R3848	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W	J3403	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
TRANSFORMER			J3405	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
T3801	610 037 4522	S COIL	J3408	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
MISCELLANEOUS			J3412	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
K38H1	610 221 3676	TERMI NAL 4P	J3413	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
K38H2	610 221 3676	TERMI NAL 4P	J3421	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
X3801	421 006 2902	SAW F OFW G9251	J3431	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
X3811	1AV4F31B0020	CERAMI C FILTER (5. 5C)	J3467	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
X3814	645 006 3022	CERAMI C FILTER (5. 74A)	J3469	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
ASSY,PWB,AUDIO 3D-A2 ST 1AA0B10H0270B			J3470	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
TRANSISTOR			J3477	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
Q1251	405 109 4407	TR BC848	J3478	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
Q1252	405 109 4407	TR BC848	J3481	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
Q3482	405 109 4407	TR BC848	J3482	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
			J3493	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
			K12A	645 004 2881	PLUG, 2P
			K12B	645 008 7288	HOUSING PLUG 5P
			K12D	645 008 7264	HOUSING PLUG 3P
			K34A	645 008 3341	PLUG, 10P

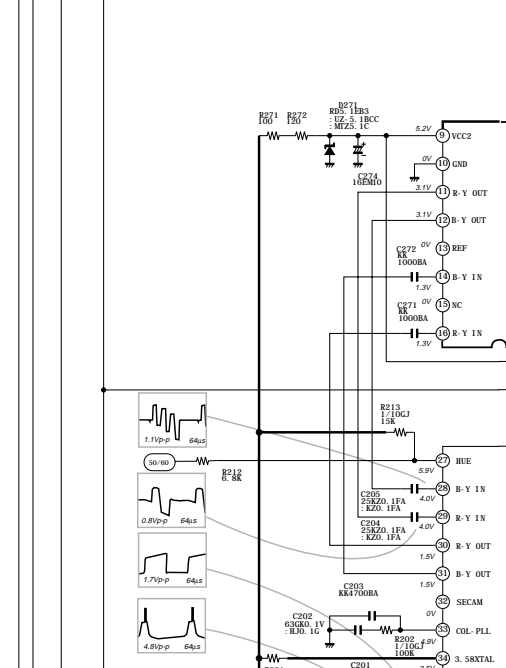
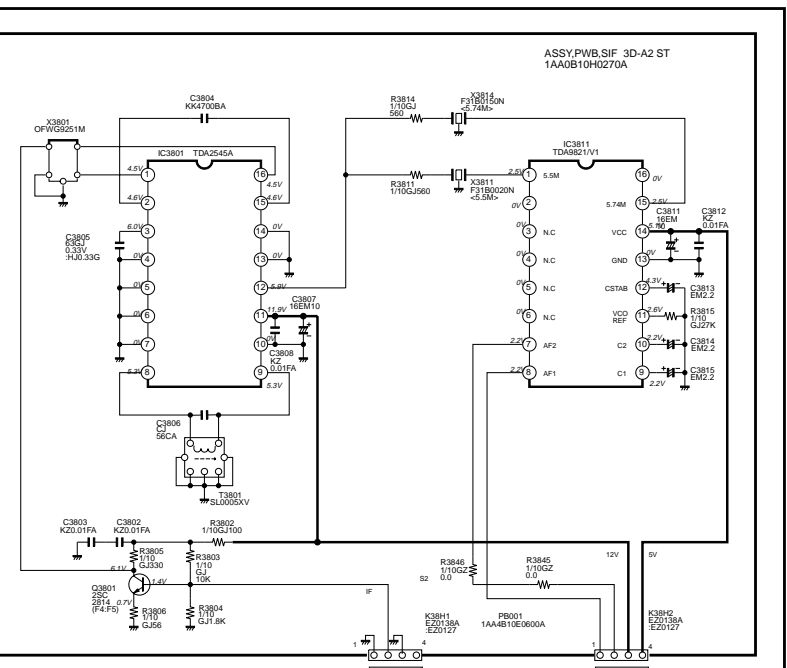
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
K34B	645 008 3341	PLUG, 10P	R3536	401 037 7919	MT- GLAZE 1. 5K JA 1/10W
L3451	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W	R3551	401 022 0839	CARBON 68 JA 1/4W
X3401	645 018 6875	OSC, CRYSTAL 10 MHZ			
ASSY,PWB,Q-SOUND 1AA0B10E37800			DIODE		
TRANSISTOR			D3551 407 053 2508 ZENER DIODE MFZ10A		
Q3505	405 014 4519	TR 2SC2412KT146/R	MISCELLANEOUS		
Q3506	405 014 4519	TR 2SC2412KT146/R	J3505	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
Q3521	405 014 4519	TR 2SC2412KT146/R	J3511	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
Q3522	405 014 4519	TR 2SC2412KT146/R	J3521	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
Q3531	405 014 4519	TR 2SC2412KT146/R	J3534	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
Q3532	405 014 4519	TR 2SC2412KT146/R	J3592	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
INTEGRATED CIRCUIT			J3593	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
IC3501	409 405 6004	IC MMI369BD	K35C	645 008 7288	HOUSING PLUG 5P
IC3531	409 316 4601	IC TDA8424	K35D	645 008 7264	HOUSING PLUG 3P
CAPACITOR			K35M	610 221 3669	TERMINAL 6P
C3501	403 041 8804	ELECT 10U M 50V	K35S	645 008 7264	HOUSING PLUG 3P
C3502	403 246 2221	MT- COMPO 0. 01U J 50V	K35U	645 004 2881	PLUG, 2P
C3503	403 105 9511	CERAMI C 1000P J 50V	ASSY,PWB,CRT F2RC 1AA0B10E24500		
C3504	403 237 8057	MT- COMPO 0. 1U J 50V	TRANSISTOR		
C3505	403 043 9106	ELECT 47U M 16V	Q2601	405 041 6507	TR 2SC2621-D- RA
C3506	403 049 9803	ELECT 2. 2U M 50V	Q2611	405 041 6507	TR 2SC2621-D- RA
C3507	403 246 2221	MT- COMPO 0. 01U J 50V	Q2621	405 041 6507	TR 2SC2621-D- RA
C3508	403 246 2221	MT- COMPO 0. 01U J 50V	Q2640	406 007 1802	TR JC556B
C3509	403 246 2221	MT- COMPO 0. 01U J 50V	Q2651	406 007 1802	TR JC556B
C3510	403 246 2221	MT- COMPO 0. 01U J 50V	CAPACITOR		
C3511	403 105 9511	CERAMI C 1000P J 50V	C2601	403 074 5712	CERAMI C 560P K 50V
C3512	403 237 8057	MT- COMPO 0. 1U J 50V	C2611	403 074 5712	CERAMI C 560P K 50V
C3513	403 246 2221	MT- COMPO 0. 01U J 50V	C2621	403 074 5712	CERAMI C 560P K 50V
C3514	403 041 8804	ELECT 10U M 50V	C2631	403 077 2728	CERAMI C 1000P P 2K
C3515	403 042 2405	ELECT 100U M 16V	C2635	403 055 8401	ELECT 22U M 250V
C3516	403 068 0419	CERAMI C 0. 1U Z 25V	C2651	403 201 5011	ELECT 330U M 16V
C3518	403 051 3103	ELECT 47U M 50V	RESISTOR		
C3521	403 041 8804	ELECT 10U M 50V	R2601	401 018 2840	CARBON 330 JA 1/4W
C3522	403 041 8804	ELECT 10U M 50V	R2602	401 019 1941	CARBON 3K9 JA 1/4W
C3531	403 041 8804	ELECT 10U M 50V	R2603	401 012 5748	CARBON 1K JA 1/4W
C3532	403 042 2405	ELECT 100U M 16V	R2604	401 065 4604	OXI DE- MT 12K JA 2W
C3533	403 041 8804	ELECT 10U M 50V	R2605	401 009 6622	CARBON 3. 3K JA 1/2W
C3534	403 068 0419	CERAMI C 0. 1U Z 25V	R2611	401 018 2840	CARBON 330 JA 1/4W
C3535	403 068 3212	CERAMI C 0. 033U K 25V	R2612	401 019 1941	CARBON 3K9 JA 1/4W
C3536	403 074 7617	CERAMI C 5600P K 50V	R2613	401 016 3849	CARBON 2. 2K JA 1/4W
C3537	403 074 7617	CERAMI C 5600P K 50V	R2614	401 065 4604	OXI DE- MT 12K JA 2W
C3538	403 068 3212	CERAMI C 0. 033U K 25V	R2615- B	401 009 6622	CARBON 3. 3K JA 1/2W
C3595	403 042 2405	ELECT 100U M 16V	R2621	401 018 2840	CARBON 330 JA 1/4W
RESISTOR			R2622	401 019 1941	CARBON 3K9 JA 1/4W
R3501	401 037 5618	MT- GLAZE 10K JA 1/10W	R2623	401 015 2744	CARBON 1K8 JA 1/4W
R3502	401 038 5310	MT- GLAZE 39K JA 1/10W	R2624	401 065 4604	OXI DE- MT 12K JA 2W
R3503	401 180 0416	MT- GLAZE 7. 5K FA 1/10W	R2625- B	401 009 6622	CARBON 3. 3K JA 1/2W
R3505	401 038 2111	MT- GLAZE 2. 7K JA 1/10W	R2627	401 020 0841	CARBON 470 JA 1/4W
R3506	401 038 2111	MT- GLAZE 2. 7K JA 1/10W	R2641	401 020 2053	CARBON 4. 7K JA 1/4W
R3508	401 038 5112	MT- GLAZE 3. 9K JA 1/10W	R2642	401 018 3857	CARBON 3K3 JA 1/4W
R3511	401 112 7612	MT- GLAZE 1K FA 1/10W	R2644	401 017 0847	CARBON 270 JA 1/4W
R3512	401 092 2416	MT- GLAZE 2. 2K FA 1/10W	R2652	401 012 7049	CARBON 10K JA 1/4W
R3513	401 112 7612	MT- GLAZE 1K FA 1/10W	R2653	401 012 7049	CARBON 10K JA 1/4W
R3514	401 092 2416	MT- GLAZE 2. 2K FA 1/10W	VARIABLE RESISTOR		
R3521	401 037 5618	MT- GLAZE 10K JA 1/10W	VR2601	645 003 5722	VR, SEMI , 4. 7K N
R3522	401 038 2111	MT- GLAZE 2. 7K JA 1/10W	VR2602	645 003 5647	VR, SEMI , 1K N
R3523	401 038 0711	MT- GLAZE 2. 2K JA 1/10W	VR2611	645 003 5722	VR, SEMI , 4. 7K N
R3524	401 037 5410	MT- GLAZE 1K JA 1/10W	VR2612	645 003 5647	VR, SEMI , 1K N
R3525	401 037 5618	MT- GLAZE 10K JA 1/10W	VR2621	645 003 5722	VR, SEMI , 4. 7K N
R3526	401 038 2111	MT- GLAZE 2. 7K JA 1/10W	COIL		
R3527	401 038 0711	MT- GLAZE 2. 2K JA 1/10W	L2601	645 007 9108	PEAKING COIL 330UH K
R3528	401 037 5410	MT- GLAZE 1K JA 1/10W	L2611	645 007 9108	PEAKING COIL 330UH K
R3531	401 037 5212	MT- GLAZE 100 JA 1/10W	L2621	645 007 9108	PEAKING COIL 330UH K
R3532	401 037 5212	MT- GLAZE 100 JA 1/10W	DIODE		
R3533	401 037 5212	MT- GLAZE 100 JA 1/10W	D2601	408 007 8607	DIODE 1N4148
R3534	401 037 7919	MT- GLAZE 1. 5K JA 1/10W			
R3535	401 037 5212	MT- GLAZE 100 JA 1/10W			

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
D2611	408 007 8607	DIODE 1N4148			
D2621	408 007 8607	DIODE 1N4148			
D2651	408 007 8607	DIODE 1N4148			
MISCELLANEOUS					
K26M	645 008 4058	TERMINAL PLUG			
K26P	645 008 7288	HOUSING PLUG 5P			
K26Q	645 008 7264	HOUSING PLUG 3P			
K2601-B	610 233 7990	CRT SOCKET			
OUT OF CIRCUIT -F3STV					
PICTURE TUBE(VIDEOCOLOR)					
△ Q901	414 007 1203	CRT A66ECY13X38			
COIL					
△ L901	645 025 6523	28DEG. COIL OREGA 47320235			
MISCELLANEOUS					
SP901	610 232 3986	SPEAKER			
SP902	610 232 3986	SPEAKER			
△ W901	645 012 7632	EURO PLUG +2P HOUSE @ 2. 1			
W902	610 204 6090	GROUNDING CONNECTOR- D8ZL			

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



ASSY. PWB, MAIN F3STY
1AA0B10H024R0



COLOUR TELEVISION

SANYO

CHASSIS SERIES **EB4**

MODEL NUMBER **CE28D3-C**

SERVICE REF.NO. **CE28D3-C-07**

The service Precaution:
The area enclosed by this line () is directly connected with AC mains voltage. When servicing the area, connect an isolating transformer between TV receiver and AC line to eliminate hazard of electric shock.

PRECAUZIONE DI SERVIZIO
L'area inclusa in questa linea () è collegata direttamente con la tensione della rete CA quando si serve l'area collegare un trasformatore isolante tra il ricevitore TV e la linea CA per eliminare il pericolo di scossa elettrica.

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

NOTIZIE SULLA SICUREZZA DI FUNZIONAMENTO
Ogni sostituzione di componenti va fatta tenendo conto della sicurezza di funzionamento. I componenti indicati solo schema con il simbolo Δ hanno particolare importanza per il sicuro funzionamento del TV. I suddetti componenti devono essere sostituiti esclusivamente con quelli indicati nell'elenco.

- Note sul diagramma di circuito :**
- Tutte i valori di resistenza sono in ohm, K=1,000, M=1,000,000.
 - Tutte le resistenze nominali watt sono di 1/6 a meno che sia specificato altrimenti.
 - Eccetto per i condensatori elettrolitici, tutti i valori di capacitanza di meno di sono espressi in μF, e di più di 1 sono in pF. I valori di capacitanza elettrolitici sono in μF.
 - Tutti i valori di capacitanza nominali sono di 50V a meno che sia indicato altrimenti.
 - Tutti i valori di induttanza sono in μH.
 - I valori letti del voltaggio presi con un "VTVM" proveni gono dal punto indicato sulla massa del chassis, i valori di voltaggio presi usando un segnale di barre colore sono con tutti i controlli alle loro posizioni normali ed il commutatore AFC in posizione "OFF". Il voltaggio puo variare con l'intensita del segnale.
 - Le forme di onda furono prese con il segnale di barre colore e i controlli regolati oppure le forme di onda di immagine normale furono prese usando un oscillatore a

larga banda ed una sonda bassa capacitata.
8. Rispetto a quando indicato su questo schema possono essere state introdotte delle modifiche.

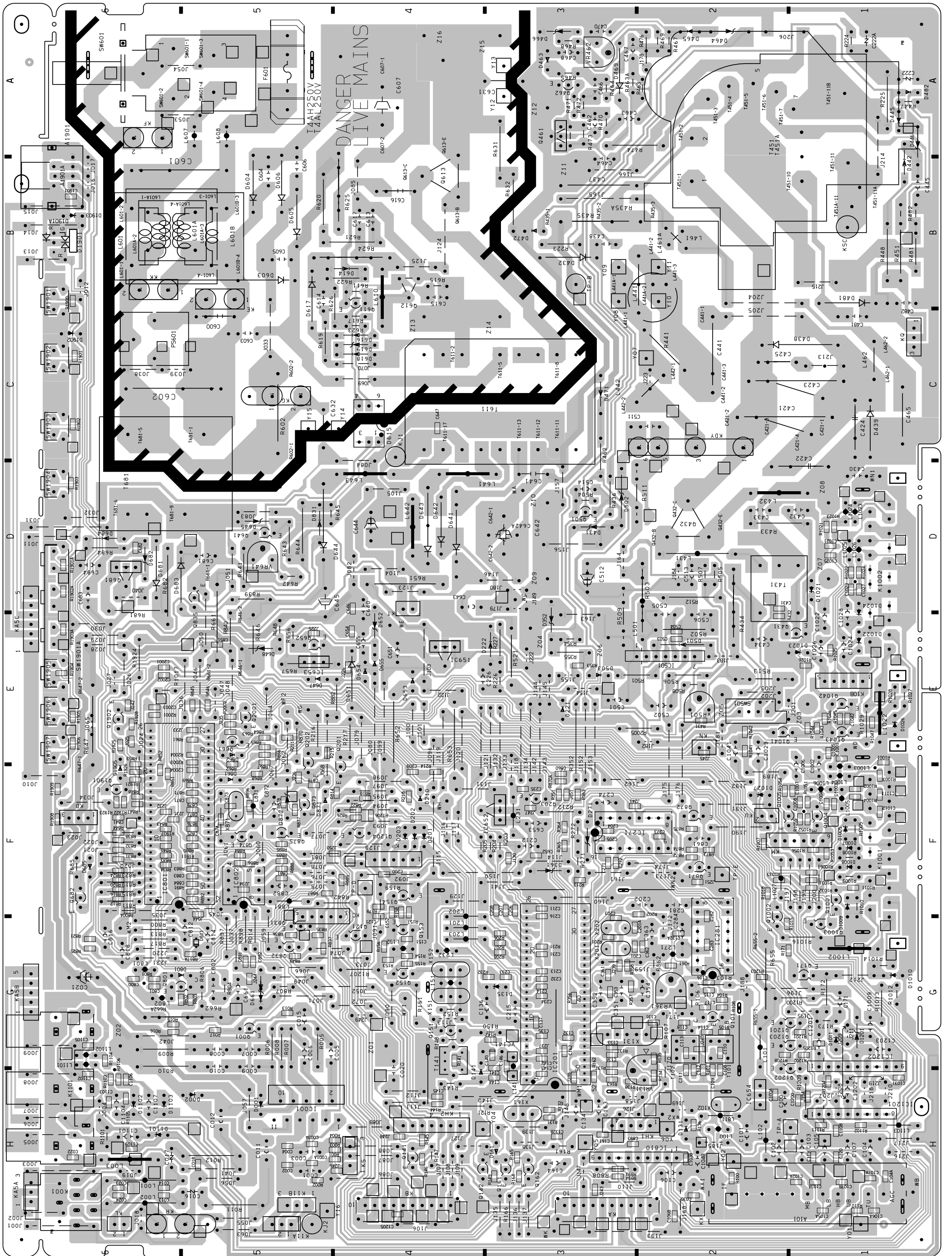
Replaceable part code (DIODE)	MARK
ISS176, ISS133, GMA01	M
1S1555, 1S2076, 1S2473, DS442, 1N4148	R
1S1555, 1S2076, 1S2473, DS442, 1N4148	AA
1S176, ISS133, GMA01	
1S1553, 1S2076A, 1S2471, 1N4148	P

Replaceable part code (TRANSISTOR)	MARK
2SC536, 2SC945A, 2SC1815, 2SC1740S, JC546(QT0378)	MARK
F.G, Q.P, Y.G.R, Q.R.S, A.B	AD
E.F.G, R.Q.P, O.Y.G.R, Q.R.S, A.B	AE
2SA608, 2SA564A, 2SA1015, 2SA933S, JC556(QT0379)	
F, R, Y, Q, R	AB
E, F, R, Q, O, Y, R	AC

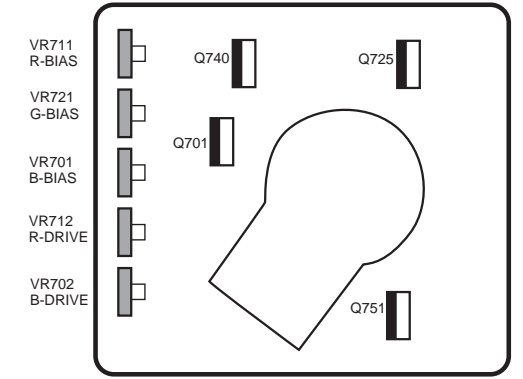
- Circuit diagram notes :**
- All resistance values are in ohms, K=1,000, M=1,000,000.
 - All resistance rated wattages are 1/6W unless otherwise noted.
 - Excepting electrolytic capacitors, all capacitance values of less than 1 are expressed in μF and more than 1 are pF.
 - All capacitance rated voltages are 50V unless otherwise noted.
 - All inductance values are in μH.
 - Voltage readings taken a digital voltmeter are from point indicated chassis ground. Voltage readings taken by using a colour bar signal are with all controls at normal position. Some voltages may vary with signal strength.
 - Waveforms were taken with colour bar and controls adjusted for normal picture. Waveforms were taken by using a wide band oscilloscope and a low capacity probe.

Main Board /Pannello Principale

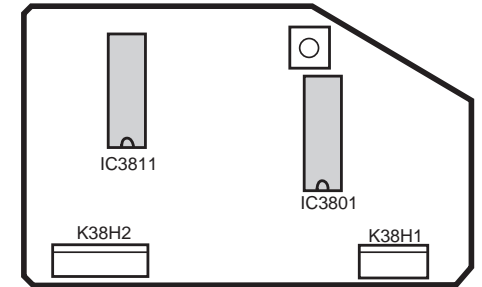
Circuit side/Lato del Circuito



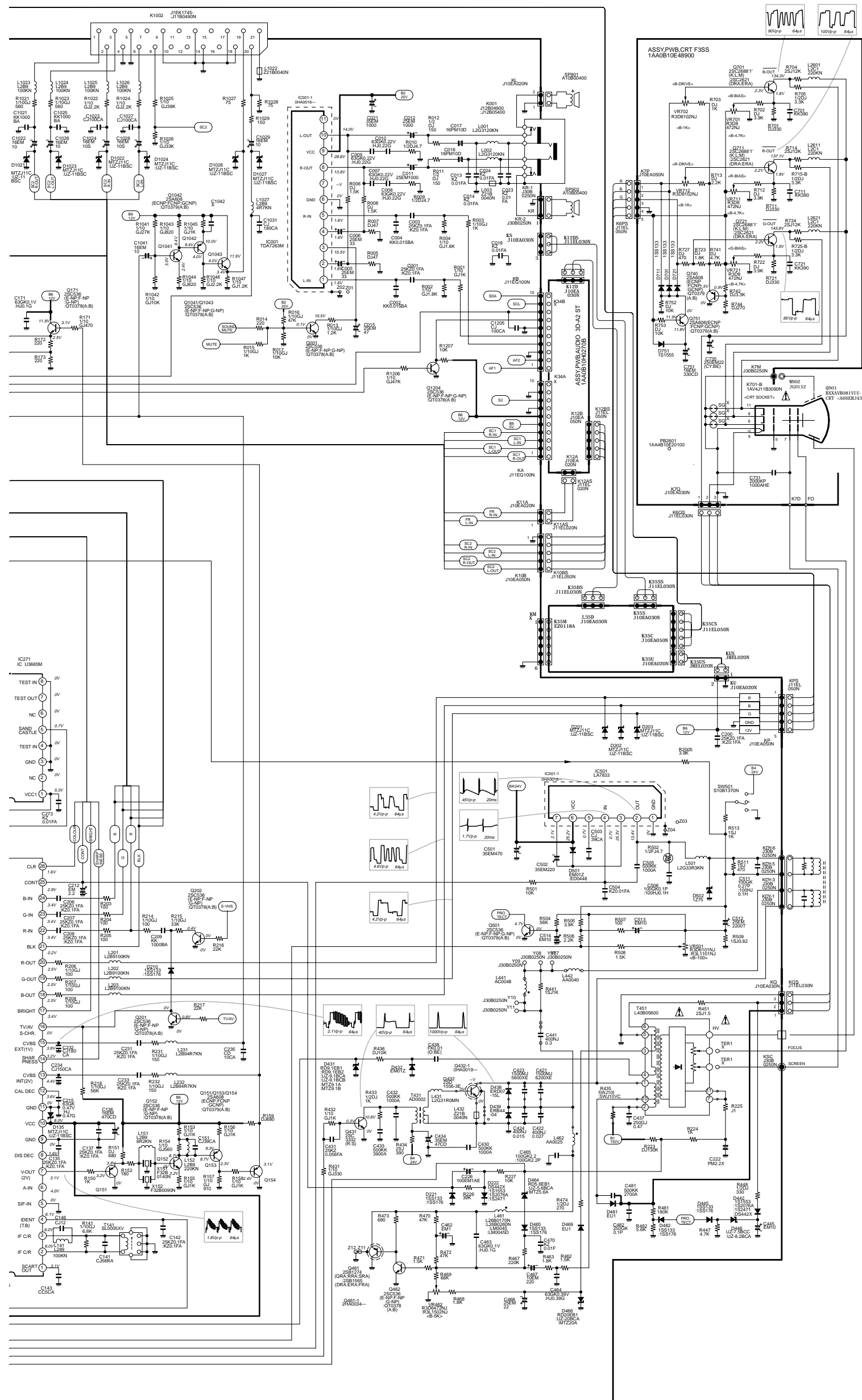
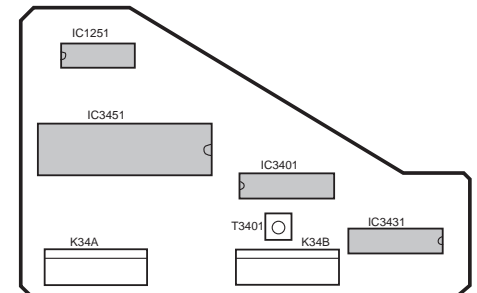
CRT Board /Pannello Cinescopio Component Location/Lato del Componente



SIF Board /Pannello SIF Component Location/Lato del Componente



Audio Board /Pannello Audio Component Location/Lato del Componente



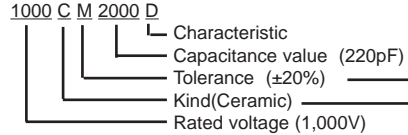
8. This circuit diagram covers a basic or representative chassis only. There may be some components or partial circuit differences between the actual chassis and the circuit diagram.

Replaceable part code (DIODE)	MARK
ISS176, 1S1133, GMA01	M
1S1555, 1S2076, 1S2473, DS442, 1N4148	R
1S1555, 1S2076, 1S2473, DS442, 1N4148	AA
1S1176, 1S1133, GMA01	P
1S1553, 1S2076A, 1S2471, 1N4148	P

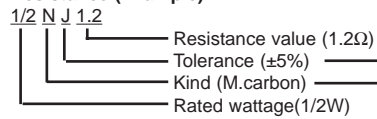
Replaceable part code (TRANSISTOR)	MARK
2SC536, 2SC945A, 2SC1815, 2SC1740S, JC546(QT0378)	MARK
F.G, Q.P, Y.GR, Q.R.S, A.B	AD
E.F.G, R.Q.P, O.Y.GR, Q.R.S, A.B	AE
2SA608, 2SA564A, 2SA1015, 2SA933S, JC556(QT0379)	MARK
F, R, Y, Q, R	AB
E.F, R.Q, O.Y, R	AC

Expression of capacitance and resistance in circuit diagram.

Capacitance (Example)

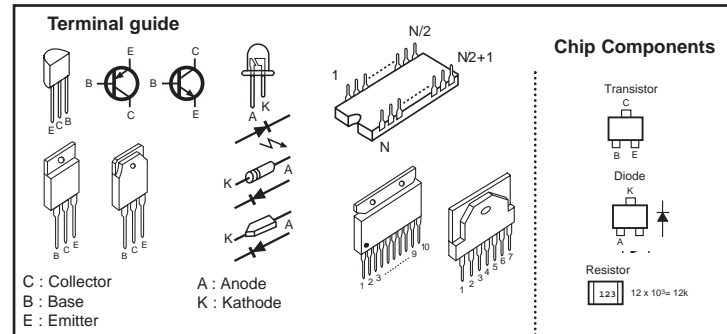


Resistance (Example)



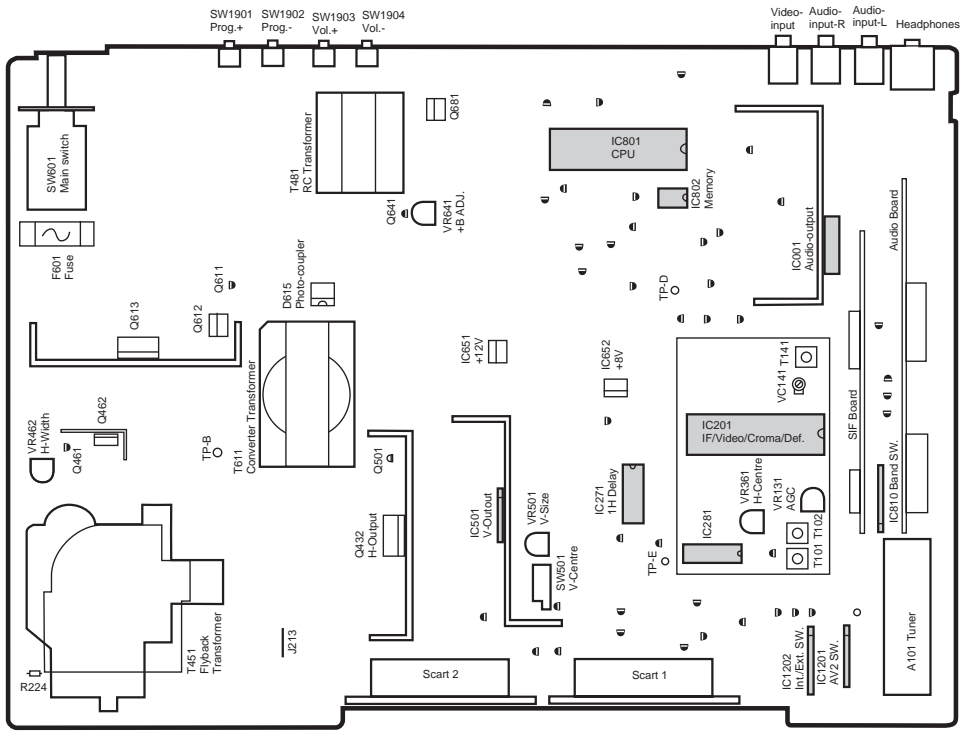
J = ± 5%
K = ± 10%
M = ± 20%
T, A, U, D : Electrolytic
C, K, B : Ceramic
F : Mylar film
M, N : Polypropylene
Z : Metallized paper

D : Carbon
N : Metallized carbon
S : Oxide metallized
W : Wire winding
C : Solid

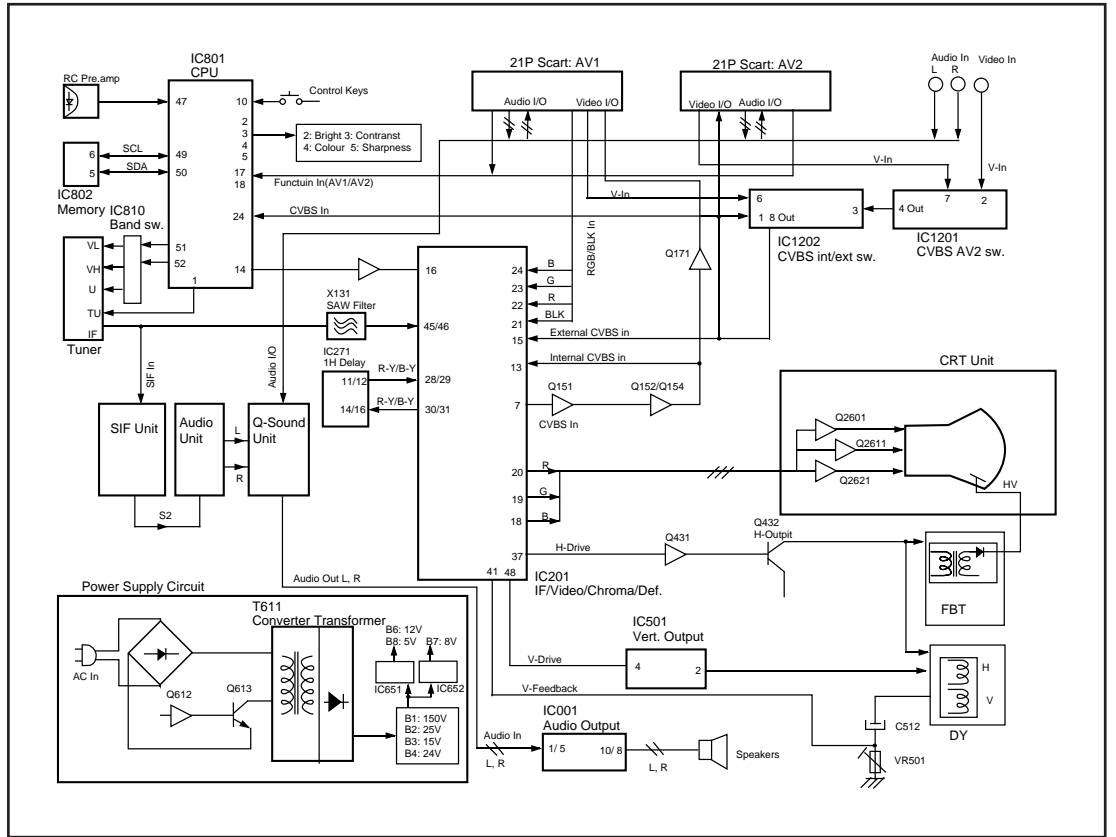


Main Board /Pannello Principal

Component Location/Lato del Componente



GENERAL BLOCK DIAGRAM FOR EB4 CHASSIS



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 $130 \pm 0,5 V$ (per 21 pollici).
5. Servendosi di VR641, regolare il voltaggio su $150 \pm 0,5 V$ (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

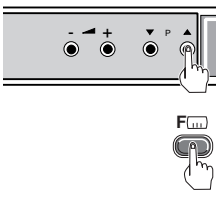
NOTA: Non tentare questa regolazione con un segnale debole.

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 "Funzione" (sul telecomando) e contemporaneamente si preme il pulsante P ▲ (sul televisore) apparivano le seguenti indicazioni sullo schermo.



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

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

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

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



8. Regolare VR di schermo per un solo colore in modo che sia ben visibile.

[REGOLAZIONE VR DEL BIAS (POLARIZZAZIONE)]

7. Servendosi di VR602, VR612 o VR622, regolare la linea in modo che sia bianca.

9. Per tornare al modo di funzionamento TV, premere il tasto Richiamo.



[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'anodo CRT.
4. Confermare che l'alto voltaggio sia $25,0 \pm 1 KV$ alla corrente di fascio di elettroni 1,0, e meno di $28,0 KV$ alla corrente di fascio di elettroni 0 (per 21 pollici).
4. Confermare che l'alto voltaggio sia $26,0 \pm 1 KV$ alla corrente di fascio di elettroni 1,1, 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 di piombo J213 (per 21 pollici).
- Regolare VR462 per ottenere l'ampiezza H appropriata (per 25/28 pollici).
6. 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.

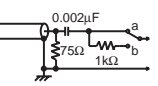
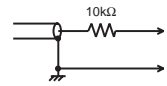
REGOLAZIONE DELLA DIMENSIONE-V

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) IC201-pin7	Servendosi di T141, regolare "P" in modo che sia di ampiezza massima.
Sonda di ingresso		
Marker frequency Sweep ATT 0dB=176mVrms/75	38.9MHz 20dB	

Allineamento SIF

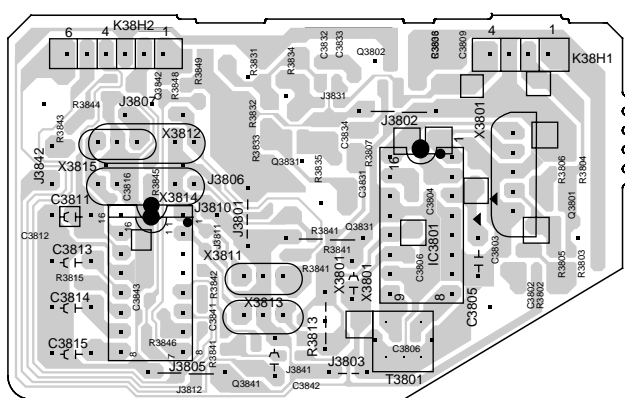
IMPOSTAZIONE	Regolazione	Forma d'onda SIF
DC 12V Tensione AGC Sonda di uscita	IC3801-pin11 IC3801-pin3 IC3801-pin1 (Side b) IC3801-pin12 10dB 38.9MHz	1. Regolare la tensione AGC in modo che sia "A" = 0.5Vp-p.
Sonda di ingresso ATT di deflessione Frequenza segnalatore		2. Servendosi di T3801, regolare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

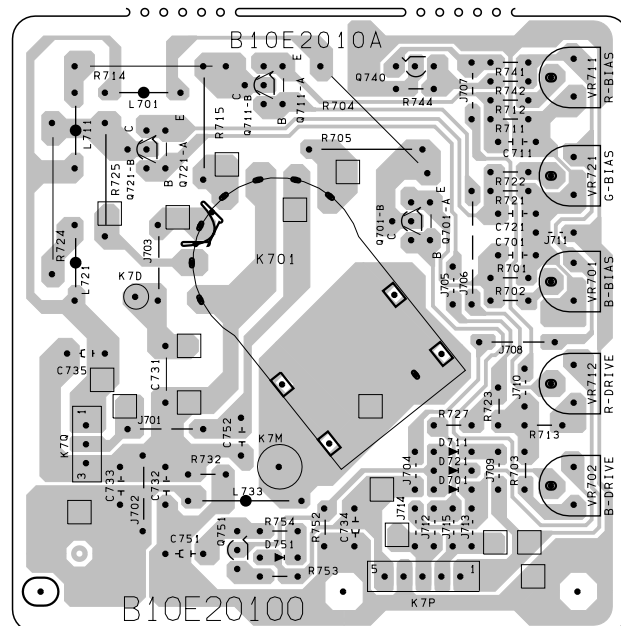
SIF Board /Pannello SIF

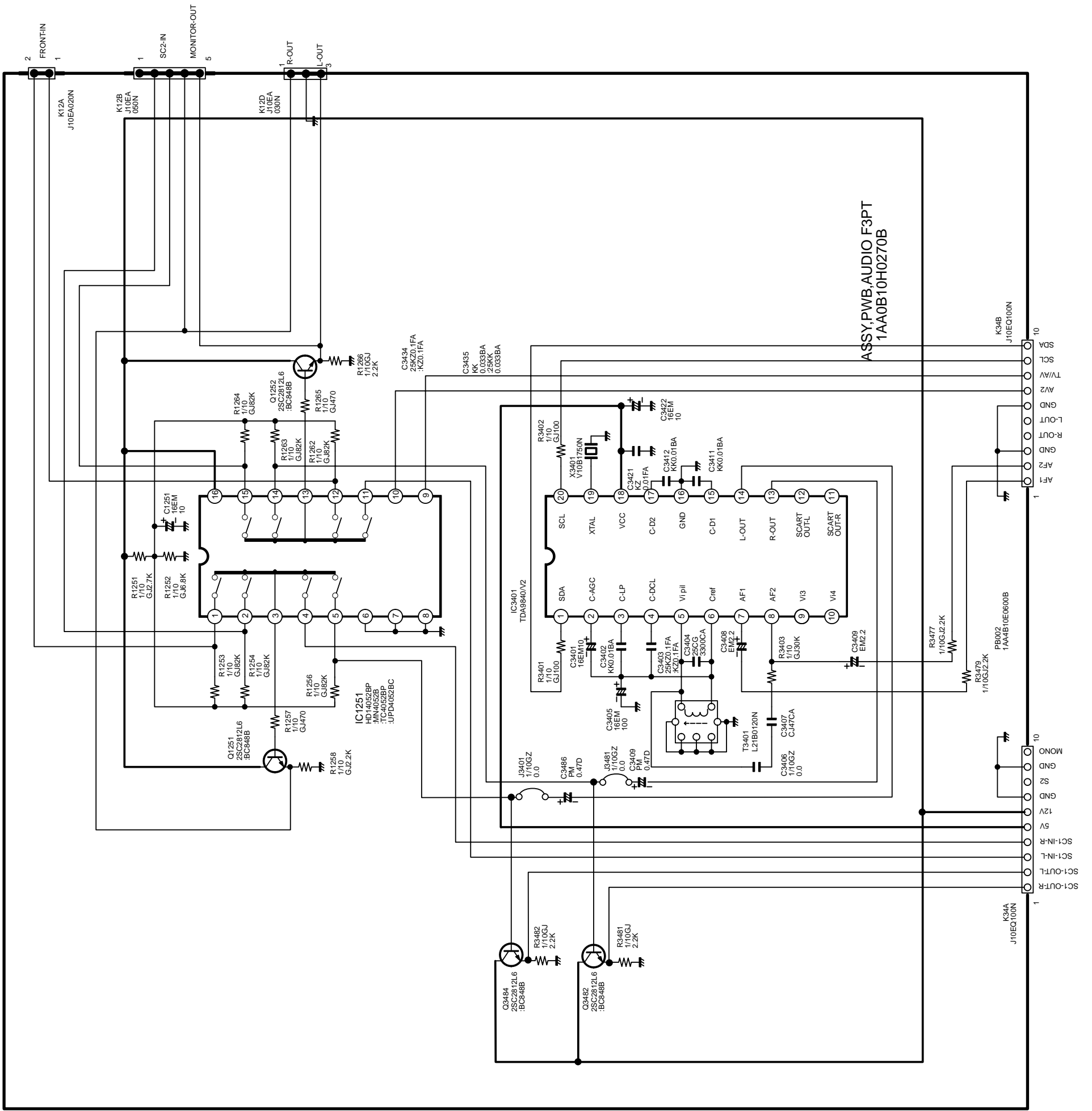
Circuit side/Lato del Circuito



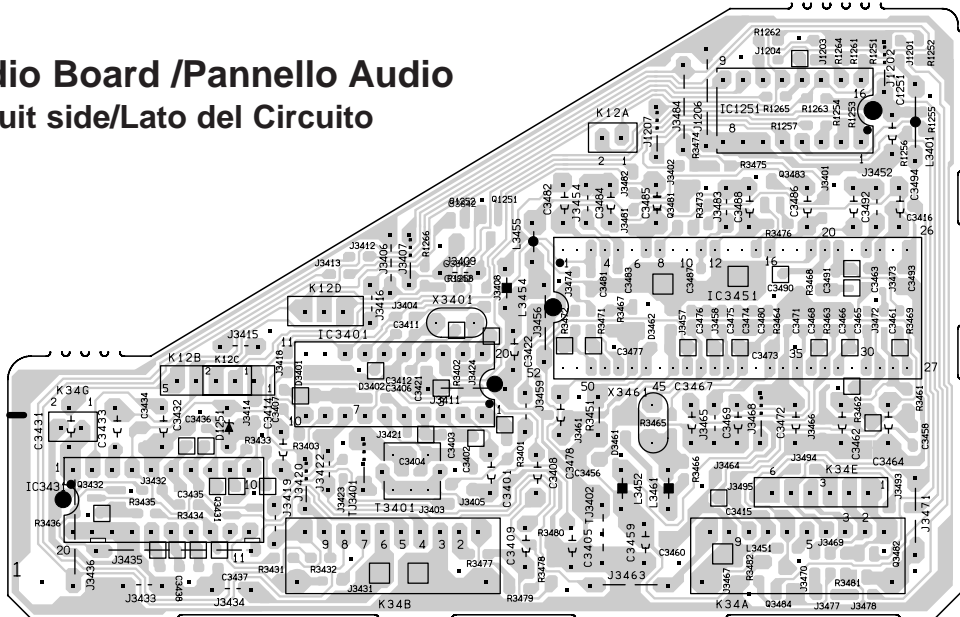
CRT Board /Pannello Cinescopio

Circuit side/Lato del Circuito

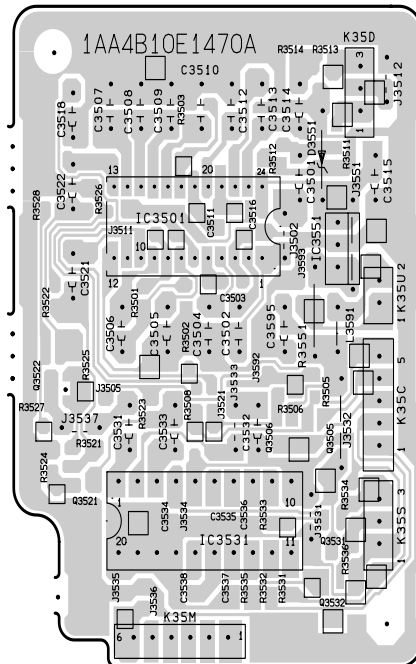




Audio Board /Pannello Audio
Circuit side/Lato del Circuito

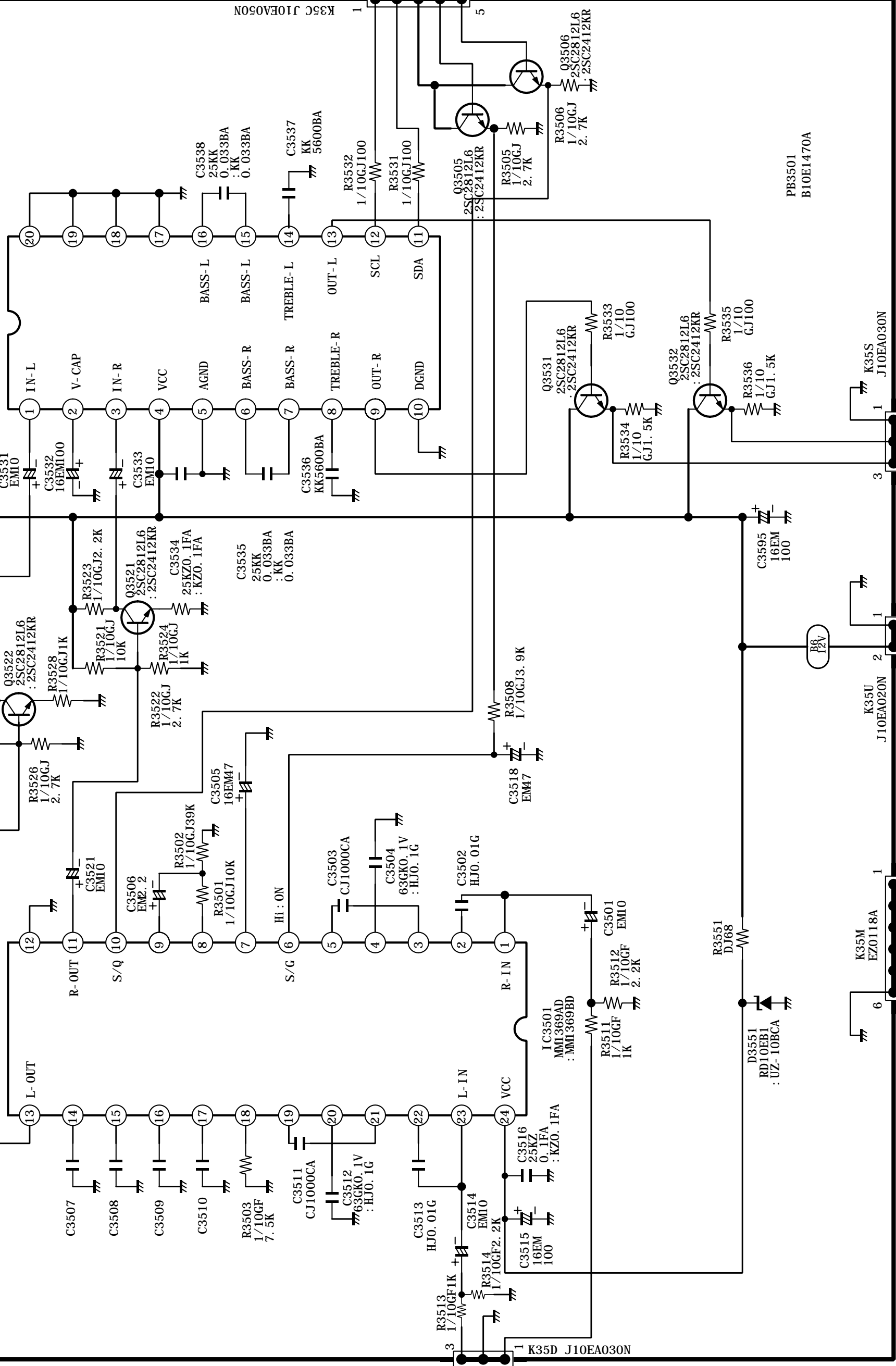


3D surround Board /Pannello 3D surround
Circuit side/Lato del Circuito



C3507, C3508, C3509, C3510: HJ0. 01G

1AAOB10E37800 F3SAM
ASSY, PWB, Q- SOUND
IC3531 TDA8424



K35C J10EA050N
FROM KC

K35D J10EA030N
FROM K12D

PB3501 B10E1470A

FROM KU
K35U J10EA020N

FROM KM
K35M EZ0118A

TO KS
K35S J10EA030N

