



Colour Television Service Manual

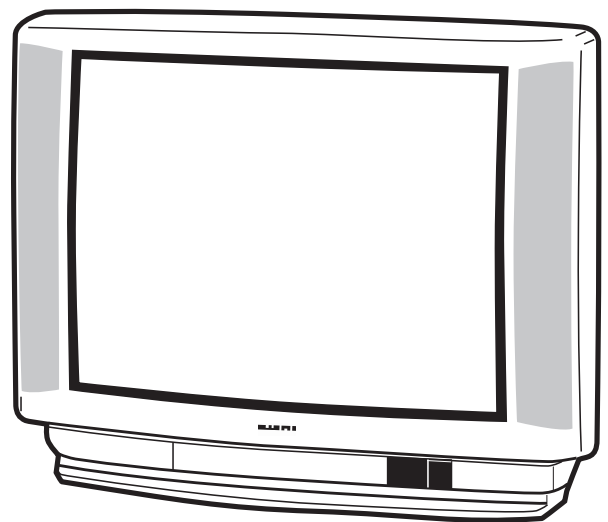
CE28B3-C

Model CE28B3-C (W.Europe)

Service Ref. No. CE28B3-C-00

PRODUCT CODE: 111339516

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 SCART Terminal	AV1:CENELEC standard (S-Video Input) AV2:CENELEC standard
Sound output(Music)	12 watts x 2
Picture tube	70cm diagonal, 110 degree
(Visible picture diagonal)	66cm
Dimensions (WxHxD)	736 x 596 x 500mm
Weight	31.6 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

- | | |
|--|--|
| <p>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.</p> <p>2: Comply with all caution and safety-related notes provided on the cabinet back, inside the cabinet, on the chassis or the picture tube.</p> | <p>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.</p> |
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X-RADIATION PRECAUTION

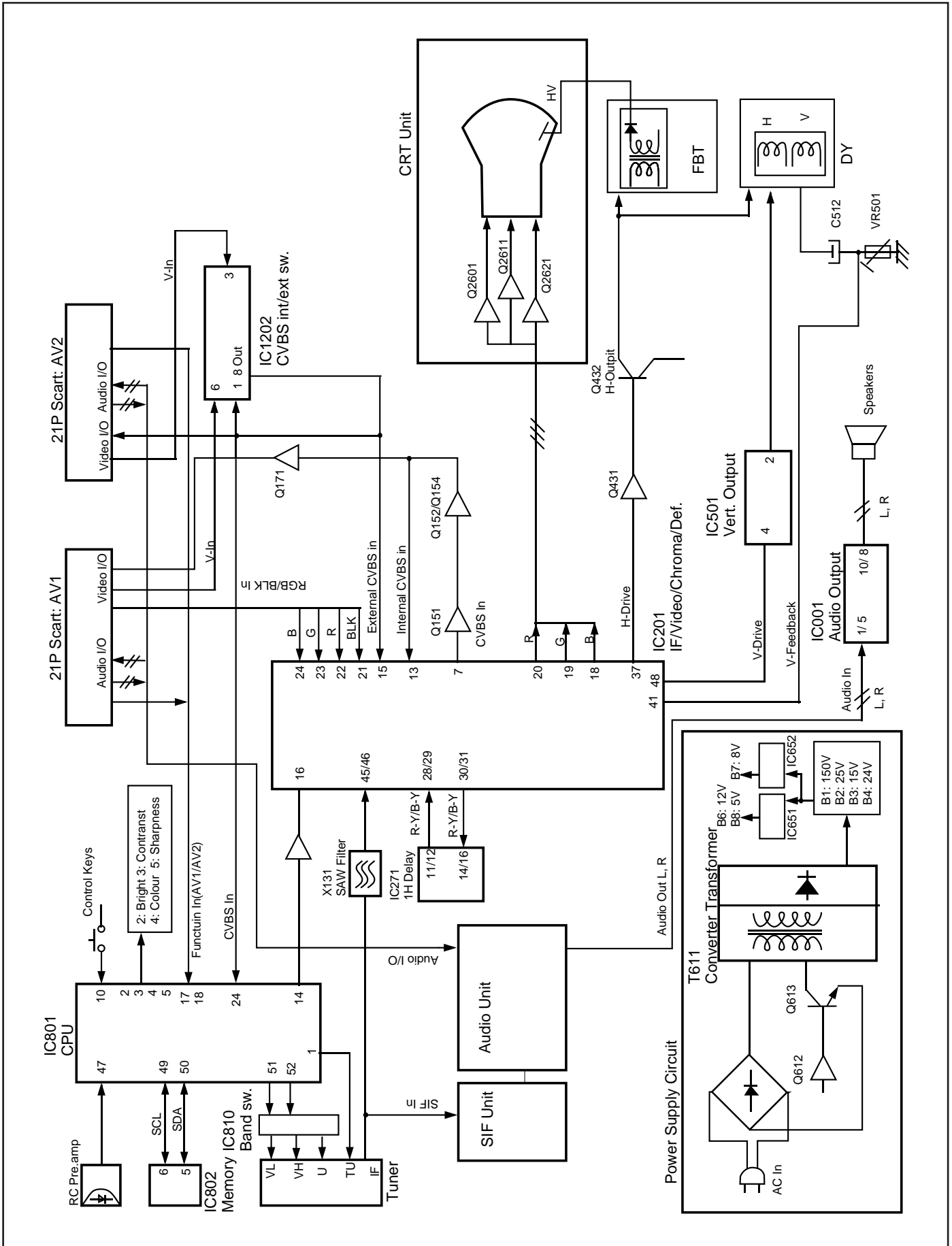
The primary source of X-RADIATION in the television receiver is the picture tube. The picture tube is specially constructed to limit X-RADIATION emissions. For continued X-RADIATION protection, the replacement tube must be the same type as the original including suffix letter. Excessive high voltage 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 Δ 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 Δ . No deviations from resistance wattage or voltage ratings may be made for replacement items designated by mark Δ .

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)

Pin40: OSC GND

Pin41: Oscillator input for CPU

Pin42: Oscillator output for CPU

Pin43: Reset input

Pin44: Supply (+5V)

Pin45: Protect signal input (L:Power circuit defects)

Pin46: Ident. signal input

Pin47: R/C signal input

Pin48: Mute output in no picture

Pin49: I²C bus SCL (Serial clock)

Pin50: I²C bus SDA (Serial data)

Pin51: Option SW5 & Band select output1

Pin52: 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

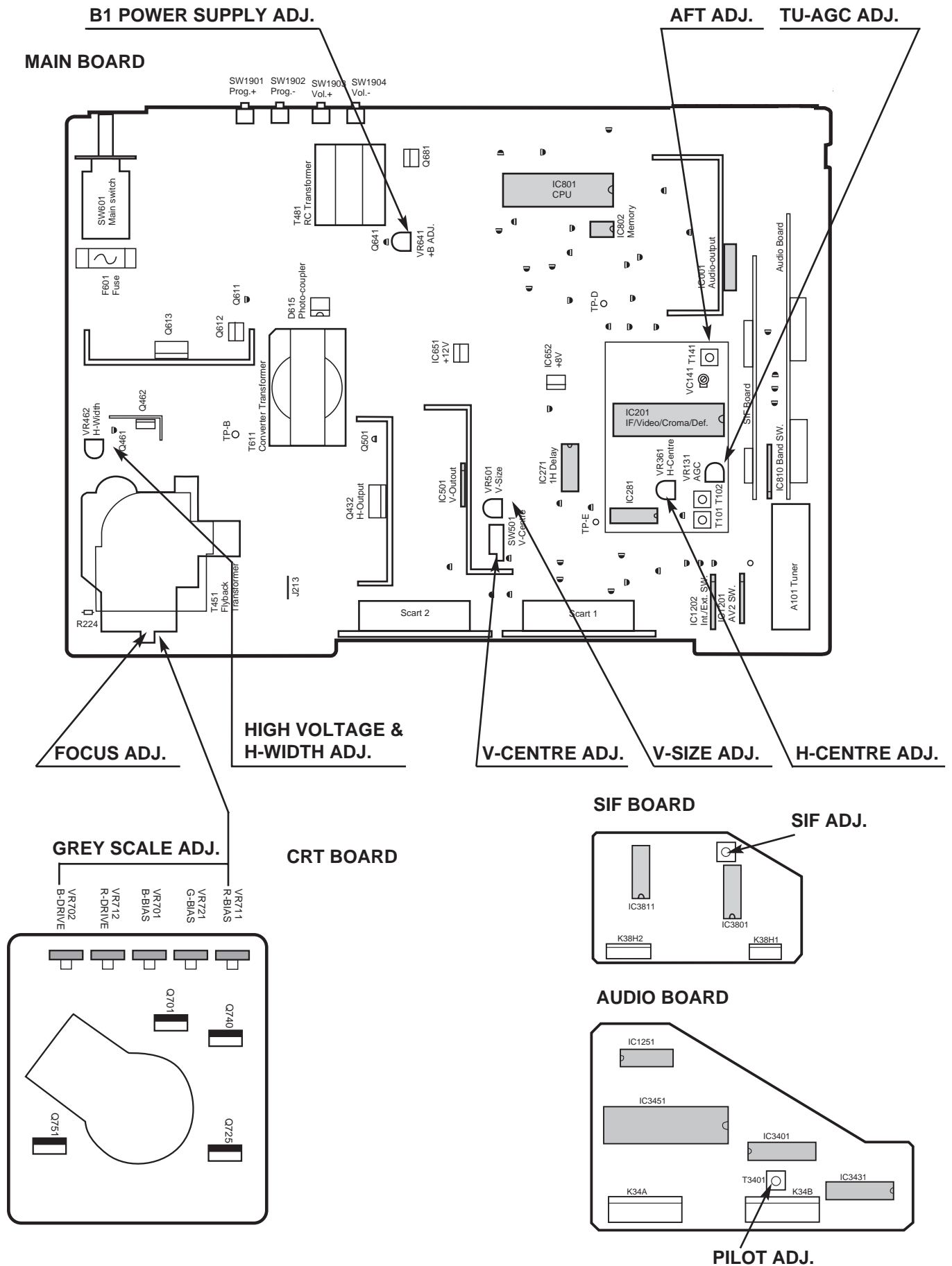
Pin21: Ignore output

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 1.4, 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.

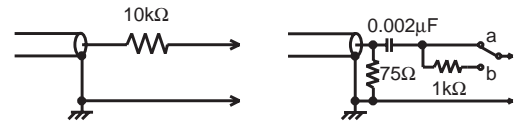
V-SIZE ADJUSTMENT

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.

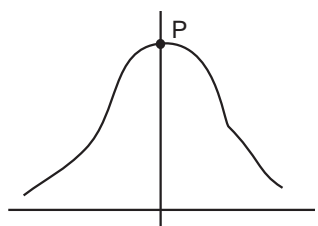
CIRCUIT ALIGNMENT



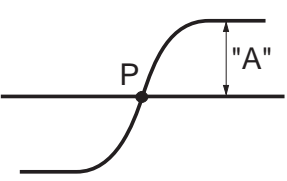
VIF alignment

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 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** [] [] 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:

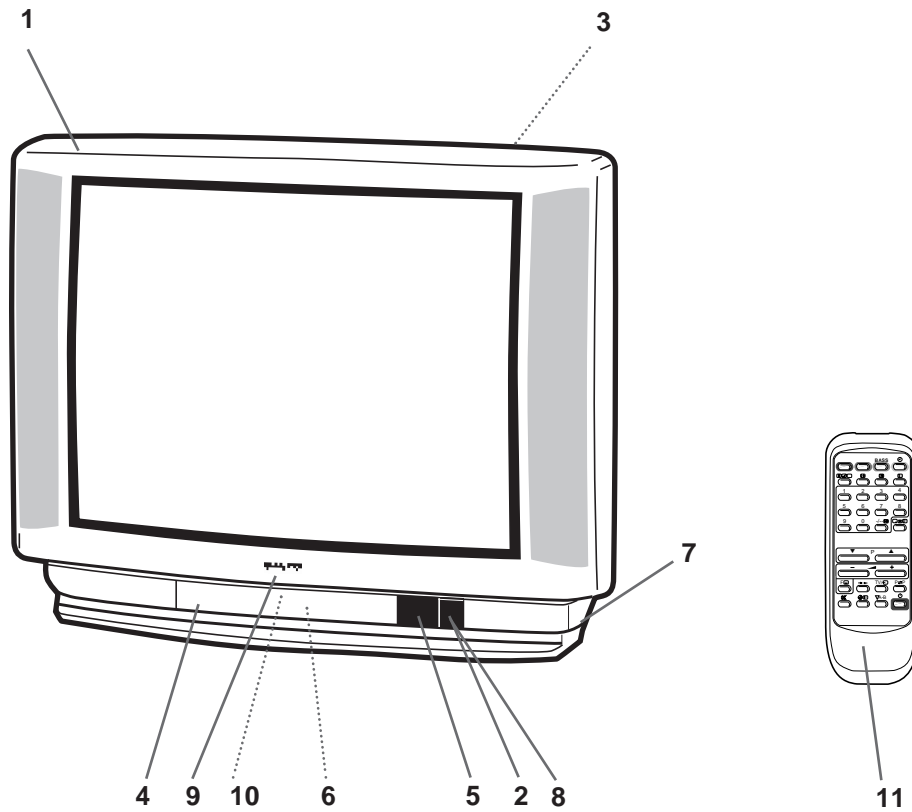
The items K1, K2, ST ID and ATT are invalid adjustments for a model which does not have an A2 stereo decoder.

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 CE28B3-C-00

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



Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
CABINET PARTS					
1	610 270 5904	ASSY, CABINET FR- F3SKM			
2	610 261 6057	BUTTON POWER- F3SCM			
3	610 264 7587	CABINET BACK- F3SLV			
4	610 275 0218	DOOR- F3SPV			
5	610 261 6132	DEC BOARD- F3SCM			
6	610 275 0232	DEC CONTROL SHEET- F3JPV			
7	610 253 2449	HOLDER AC CORD- GBR- D4VA			
	610 260 0148	HOLDER RC GBR- BLFA			
	610 265 4202	HOLDER DC- F3SCM			
8	610 261 3032	SPRING- E7GC			
9	645 023 4316	BADGE, SANYO*46. 2X13. 5L45			
	610 133 2354	FIXER PURSE LOCK, D11. 5(PA			
	645 005 0312	FIXER HOOK			
10	610 104 2505	LATCH PUSH, 7. 9X6. 9BK			
	610 224 5721	CRT CUSHION- B3MY- UK			
ACCESSORIES					
11	JXZB	RC TRANSMITTER			
	SKP10172	INSTRUCTIONS MANUAL- F7STM- 1			
	SKP10173	INSTRUCTIONS MANUAL- F7STM- 2			
	645 000 6708	BATTERY, MANGAN, COMPOSITE			

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 Δ 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																																																																																																																																				
Chassis construction																																																																																																																																							
<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:</p> <p style="margin-left: 100px;">Less than 10PF</p> <p style="margin-left: 100px;">A: Not specified B: $\pm 0.1PF$ C: $\pm 0.25PF$</p> <p style="margin-left: 100px;">D: $\pm 0.5PF$ F: $\pm 1PF$ G: $\pm 2PF$</p> <p style="margin-left: 100px;">R: $\pm 0.25-0PF$ S: $\pm 0-0.25PF$ E: $+0-1PF$</p> <p style="margin-left: 100px;">More than 10PF</p> <p style="margin-left: 100px;">A: Not specified B: $\pm 0.1\%$ C: $\pm 0.25\%$</p> <p style="margin-left: 100px;">D: $\pm 0.5\%$ F: $\pm 1\%$ G: $\pm 2\%$</p> <p style="margin-left: 100px;">H: $\pm 3\%$ J: $\pm 5\%$ K: $\pm 10\%$</p> <p style="margin-left: 100px;">L: $\pm 15\%$ M: $\pm 20\%$ N: $\pm 30\%$</p> <p style="margin-left: 100px;">P: $+100-0\%$ Q: $+30-10\%$ T: $+50-10\%$</p> <p style="margin-left: 100px;">U: $+75-10\%$ V: $+20-10\%$ W: $+100-10\%$</p> <p style="margin-left: 100px;">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</p> <p>MT-PAPER..... Metallized Paper</p> <p>POLYESTER..... Polyester</p> <p>MT-POLYEST.... Metallized Polyester</p> <p>POLYPRO..... Polypropylene</p> <p>MT-POLYPRO.... Metallized Polypropylene</p> <p>COMPO FILM..... Composite film</p> <p>MT-COMPO..... Metallized Composite</p> <p>STYRENE..... Styrene</p> <p>TA-SOLID..... Tantalum Solid</p> <p>AL-SOLID..... Aluminium Solid</p> <p>ELECT..... Electrolytic</p> <p>NP-ELECT..... Non-polarized Electrolytic</p> <p>OS-SOLID..... Aluminium Solid with Organic Semiconductive Electrolytic</p> <p>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:</p> <p style="margin-left: 100px;">A: General B: Non flammable Z: Low noise</p> <p style="margin-left: 100px;">Other: Temperature coefficient</p> <p style="margin-left: 100px;">└─── Tolerance Symbols:</p> <p style="margin-left: 100px;">A: $\pm 0.05\%$ B: $\pm 0.1\%$ C: $\pm 0.25\%$ D: $\pm 0.5\%$</p> <p style="margin-left: 100px;">F: $\pm 1\%$ G: $\pm 2\%$ J: $\pm 5\%$ K: $\pm 10\%$</p> <p style="margin-left: 100px;">M: $\pm 20\%$ P: $+5-15\%$</p> <p style="margin-left: 100px;">└─── Rated value, ohms:</p> <p style="margin-left: 100px;">K: 1,000, M: 1,000,000</p> <p>Material:</p> <p>CARBON..... Carbon</p> <p>MT-FILM..... Metal Film</p> <p>OXIDE-MT..... Oxide Metal Film</p> <p>SOLID..... Composition</p> <p>MT-GLAZE..... Metal Glaze</p> <p>WIRE WOUND... Wire Wound</p> <p>CERAMIC RES.. Ceramic</p> <p>FUSIBLE RES.... Fusible</p>	<p>ASSY,PWB,MAIN F7STM 1AA0B10H036E0 (Page 11)</p> <p>ASSY,PWB,SIF F2RT 1AA0B10E230BA (Page 16)</p> <p>ASSY,PWB,AUDIO F2RT 1AA0B10E230BB (Page 16)</p> <p>ASSY,PWB,CRT F3SS 1AA0B10E48900 (Page 17)</p> <p>OUT OF CIRCUIT-F7STM (Page 18)</p> <hr/> <p>ASSY,PWB,MAIN F7STM 1AA0B10H036E0</p> <p>TRANSISTOR</p> <table style="width: 100%; border-collapse: collapse;"> <tr><td>Q001</td><td>406 007 2106</td><td>TR JC546A</td></tr> <tr><td>Q1001</td><td>406 007 1901</td><td>TR JC556A</td></tr> <tr><td>Q1002</td><td>406 007 2106</td><td>TR JC546A</td></tr> <tr><td>Q1003</td><td>406 007 2106</td><td>TR JC546A</td></tr> <tr><td>Q1004</td><td>406 007 2106</td><td>TR JC546A</td></tr> <tr><td>Q1005</td><td>406 007 2106</td><td>TR JC546A</td></tr> <tr><td>Q1041</td><td>406 007 2106</td><td>TR JC546A</td></tr> <tr><td>Q1042</td><td>406 007 1901</td><td>TR JC556A</td></tr> <tr><td>Q1043</td><td>406 007 2106</td><td>TR JC546A</td></tr> <tr><td>Q1201</td><td>406 007 2106</td><td>TR JC546A</td></tr> <tr><td>Q1204</td><td>406 007 2106</td><td>TR JC546A</td></tr> <tr><td>Q121</td><td>406 007 2106</td><td>TR JC546A</td></tr> <tr><td>Q151</td><td>406 007 1901</td><td>TR JC556A</td></tr> <tr><td>Q152</td><td>406 007 2106</td><td>TR JC546A</td></tr> <tr><td>Q153</td><td>406 007 1901</td><td>TR JC556A</td></tr> <tr><td>Q154</td><td>406 007 1901</td><td>TR JC556A</td></tr> <tr><td>Q171</td><td>406 007 2106</td><td>TR JC546A</td></tr> <tr><td>Q2001</td><td>406 007 2106</td><td>TR JC546A</td></tr> <tr><td>Q201</td><td>406 007 2106</td><td>TR JC546A</td></tr> <tr><td>Q202</td><td>406 007 2106</td><td>TR JC546A</td></tr> <tr><td>Q431</td><td>405 018 0616</td><td>TR 2SC3332-S</td></tr> <tr><td>Q432</td><td>405 095 0209</td><td>TR 2SD1556-3E</td></tr> <tr><td>Q461</td><td>405 064 7307</td><td>TR 2SB1274-Q-RA</td></tr> <tr><td>Q462</td><td>406 007 2106</td><td>TR JC546A</td></tr> <tr><td>Q501</td><td>406 007 2106</td><td>TR JC546A</td></tr> <tr><td>Q611</td><td>406 007 1901</td><td>TR JC556A</td></tr> <tr><td>Q612</td><td>405 058 0208</td><td>TR 2SC3807-R-CTV-YA</td></tr> <tr><td>Q613</td><td>405 095 0407</td><td>TR 2SC4429-L-YB</td></tr> <tr><td>Q641</td><td>406 007 2106</td><td>TR JC546A</td></tr> <tr><td>Q652</td><td>405 023 5019</td><td>TR 2SD400-E-MP-AE</td></tr> <tr><td>Q681</td><td>405 059 9804</td><td>TR 2SD1913-Q-RA</td></tr> <tr><td>Q682</td><td>406 007 1901</td><td>TR JC556A</td></tr> <tr><td>Q801</td><td>405 118 4217</td><td>TR PH2369</td></tr> <tr><td>Q835</td><td>406 007 2106</td><td>TR JC546A</td></tr> <tr><td>Q861</td><td>406 007 1901</td><td>TR JC556A</td></tr> <tr><td>Q871</td><td>406 007 2106</td><td>TR JC546A</td></tr> <tr><td>Q872</td><td>406 007 2106</td><td>TR JC546A</td></tr> <tr><td>Q873</td><td>406 007 2106</td><td>TR JC546A</td></tr> <tr><td>Q874</td><td>406 007 2106</td><td>TR JC546A</td></tr> <tr><td>Q875</td><td>406 007 2106</td><td>TR JC546A</td></tr> </table> <p>INTEGRATED CIRCUIT</p> <table style="width: 100%; border-collapse: collapse;"> <tr><td>IC001</td><td>409 301 4906</td><td>IC TDA7263M</td></tr> <tr><td>IC1202</td><td>409 120 3401</td><td>IC LA7221</td></tr> <tr><td>IC201</td><td>409 380 8703</td><td>IC TDA8361/N5</td></tr> <tr><td>IC271</td><td>409 404 0201</td><td>IC U3665M</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	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	Q461	405 064 7307	TR 2SB1274-Q-RA	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	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	Q835	406 007 2106	TR JC546A	Q861	406 007 1901	TR JC556A	Q871	406 007 2106	TR JC546A	Q872	406 007 2106	TR JC546A	Q873	406 007 2106	TR JC546A	Q874	406 007 2106	TR JC546A	Q875	406 007 2106	TR JC546A	IC001	409 301 4906	IC TDA7263M	IC1202	409 120 3401	IC LA7221	IC201	409 380 8703	IC TDA8361/N5	IC271	409 404 0201	IC U3665M
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Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
IC501	409 192 5709	IC LA7833	C1901	403 069 1712	CERAMI C 1000P K 50V
IC501-1	610 251 5909	V HEAT SINK E7LC	C200	403 068 0419	CERAMI C 0.1U Z 25V
IC651	409 365 2900	IC BA178M12T	C2001	403 068 0419	CERAMI C 0.1U Z 25V
IC652	409 365 2801	IC BA178M08T	C2002	403 068 0419	CERAMI C 0.1U Z 25V
IC654	409 367 2809	IC BA178M09T	C2003	403 068 0419	CERAMI C 0.1U Z 25V
IC801	410 323 9206	IC SAA5290PS/116	C201	403 014 3409	CERAMI C 18P J 50V
IC802	409 333 3700	IC 24LC02B/P	C202	403 237 8057	MT- COMPO 0.1U J 50V
IC810	409 019 6209	IC LA7910	C203	403 073 9117	CERAMI C 4700P K 50V
CAPACITOR			C204	403 068 0419	CERAMI C 0.1U Z 25V
C001A	403 068 0419	CERAMI C 0.1U Z 25V	C205	403 068 0419	CERAMI C 0.1U Z 25V
C002	403 070 9813	CHIP CERAMI C 0.015U K 50V	C206	403 068 0419	CERAMI C 0.1U Z 25V
C003A	403 068 0419	CERAMI C 0.1U Z 25V	C207	403 068 0419	CERAMI C 0.1U Z 25V
C004	403 070 9813	CHIP CERAMI C 0.015U K 50V	C208	403 068 0419	CERAMI C 0.1U Z 25V
C005	403 046 3507	ELECT 33U M 25V	C209	403 069 1712	CERAMI C 1000P K 50V
C006	403 046 3507	ELECT 33U M 25V	C212	403 049 9803	ELECT 2.2U M 50V
C007	403 237 7941	MT- COMPO 0.22U J 50V	C215	403 067 7895	MT- COMPO 0.47 J 50V
C008	403 237 7941	MT- COMPO 0.22U J 50V	C222	404 045 6605	NP- ELECT 2.2U M 50V
C009	403 237 7941	MT- COMPO 0.22U J 50V	C226	403 138 1602	ELECT 1U M 100V
C010	403 237 7941	MT- COMPO 0.22U J 50V	C231	403 068 0419	CERAMI C 0.1U Z 25V
C011	403 045 1504	ELECT 1000U M 25V	C232	403 014 9213	CERAMI C 180P J 50V
C012	403 045 1504	ELECT 1000U M 25V	C233	403 068 0419	CERAMI C 0.1U Z 25V
C015	403 047 3100	ELECT 47U M 25V	C234	403 013 3004	CERAMI C 150P J 50V
C018	403 069 9510	CERAMI C CHIP 0.01 Z 50V	C235	403 008 7416	CERAMI C 10P D 50V
C021	403 154 1907	ELECT 1000U M 35V	C271	403 069 1712	CERAMI C 1000P K 50V
C100	403 248 1618	ELECT 47U M 16V	C272	403 069 1712	CERAMI C 1000P K 50V
C1001	403 069 1712	CERAMI C 1000P K 50V	C273	403 069 9510	CERAMI C CHIP 0.01 Z 50V
C1002	403 049 4204	ELECT 10U M 50V	C274	403 049 4204	ELECT 10U M 50V
C1003	403 009 5718	CERAMI C 100P J 50V	C351	403 237 8057	MT- COMPO 0.1U J 50V
C1004	403 130 3119	CERAMI C 0.047U K 50V	C352	403 179 1015	POLYESTER 0.047U J 50V
C1005	403 069 1712	CERAMI C 1000P K 50V	C353	403 073 9117	CERAMI C 4700P K 50V
C1006	403 049 4204	ELECT 10U M 50V	C354	403 049 0008	ELECT 1U M 50V
C1007	403 009 5718	CERAMI C 100P J 50V	C361	403 072 5615	CERAMI C 2700P K 50V
C1008	403 130 3119	CERAMI C 0.047U K 50V	C362	403 069 9510	CERAMI C CHIP 0.01 Z 50V
C1009	403 049 4204	ELECT 10U M 50V	C363	403 195 8804	ELECT 100U M 16V
C101	403 194 4609	ELECT 470U M 16V	C421	404 046 8806	MT- POLYPRO 6200P J 1.5K
C102	403 248 1618	ELECT 47U M 16V	C422	403 299 3111	POLYPRO 0.022U J 400V
C1021	403 069 1712	CERAMI C 1000P K 50V	C423	404 044 1700	MT- POLYPRO 5400P J 1.5K
C1022	403 049 4204	ELECT 10U M 50V	C424	403 083 3914	POLYPRO 0.018U J 400V
C1023	403 009 5718	CERAMI C 100P J 50V	C430	403 075 7101	CERAMI C 1000P K 500V
C1024	403 041 9405	ELECT 10U M 16V	C431	403 068 5612	CERAMI C 0.056U Z 25V
C1025	403 069 1712	CERAMI C 1000P K 50V	C432	403 075 7101	CERAMI C 1000P K 500V
C1026	403 049 4204	ELECT 10U M 50V	C433	403 076 3102	CERAMI C 3900P K 500V
C1027	403 009 5718	CERAMI C 100P J 50V	C434	403 229 1217	ELECT 47U M 35V
C1028	403 041 9405	ELECT 10U M 16V	C437	403 066 6106	MT- POLYEST 0.47U J 250V
C1029	403 049 4204	ELECT 10U M 50V	C438	403 178 9319	POLYESTER 0.01U J 50V
C103A	403 069 1712	CERAMI C 1000P K 50V	C441	403 309 2100	POLYPRO 0.3U J 400V
C1031	403 014 9213	CERAMI C 180P J 50V	C445	403 049 4204	ELECT 10U M 50V
C104	403 248 1618	ELECT 47U M 16V	C462	403 049 0008	ELECT 1U M 50V
C1041	403 049 4204	ELECT 10U M 50V	C463	403 237 8057	MT- COMPO 0.1U J 50V
C106	403 049 0008	ELECT 1U M 50V	C464	403 049 0008	ELECT 1U M 50V
C106B	403 069 9510	CERAMI C CHIP 0.01 Z 50V	C465	403 066 0104	MT- POLYEST 2.2U K 100V
C107B	403 069 9510	CERAMI C CHIP 0.01 Z 50V	C467	403 241 3817	ELECT 220U M 10V
C108	403 027 1211	CERAMI C 5P J 50V	C468	403 217 1103	ELECT 22U M 50V
C109	403 027 1211	CERAMI C 5P J 50V	C470	403 069 8305	CERAMI C 0.01U Z 50V
C110	403 033 4510	CERAMI C 82P J 50V	C481	403 076 1405	CERAMI C 2700P K 500V
C114	401 037 5014	MT- GLAZE 0.000 ZA 1/10W	C482	403 159 7409	MT- POLYEST 0.1U K 250V
C117	401 037 5014	MT- GLAZE 0.000 ZA 1/10W	C501	403 054 1502	ELECT 470U M 35V
C1201	403 049 4204	ELECT 10U M 50V	C502	403 053 2104	ELECT 220U M 35V
C1203	403 069 8305	CERAMI C 0.01U Z 50V	C503	403 024 2112	CERAMI C 39P J 50V
C1205	403 009 5718	CERAMI C 100P J 50V	C504	403 069 9510	CERAMI C CHIP 0.01 Z 50V
C121	403 068 0419	CERAMI C 0.1U Z 25V	C505	403 075 7101	CERAMI C 1000P K 500V
C131	401 037 5014	MT- GLAZE 0.000 ZA 1/10W	C506	403 183 7901	MT- POLYEST 0.1U K 100V
C132	403 069 1712	CERAMI C 1000P K 50V	C511	403 188 0709	MT- POLYEST 0.27U K 100V
C133	403 069 9510	CERAMI C CHIP 0.01 Z 50V	C512	403 148 0701	ELECT 2200U M 25V
C134	403 050 6600	ELECT 3.3U M 50V	C513	403 049 4204	ELECT 10U M 50V
C135	403 068 0419	CERAMI C 0.1U Z 25V	C514	403 049 4204	ELECT 10U M 50V
C136	403 194 4609	ELECT 470U M 16V	C600	403 076 4000	CERAMI C 4700P K 500V
C137	403 068 0419	CERAMI C 0.1U Z 25V	Δ C601	404 060 7205	MT- POLYEST 0.1U M 250V
C138	403 069 9510	CERAMI C CHIP 0.01 Z 50V	Δ C602	404 060 7205	MT- POLYEST 0.1U M 250V
C141	403 028 4419	CERAMI C 56P J 50V	C603	403 076 7130	CERAMI C 1000P M 1K
C142	403 068 0419	CERAMI C 0.1U Z 25V	C604	403 076 7130	CERAMI C 1000P M 1K
C143	403 027 1211	CERAMI C 5P J 50V	C605	403 076 7130	CERAMI C 1000P M 1K
C146	403 010 8507	CERAMI C 12P J 50V	C606	403 076 7130	CERAMI C 1000P M 1K
C151	403 024 2112	CERAMI C 39P J 50V	C607	404 047 1608	ELECT 270U M 385V
C162	403 068 2512	CERAMI C 0.22U Z 25V	C613	403 179 1213	POLYESTER 4700P J 50V
C171	403 237 8057	MT- COMPO 0.1U J 50V	Δ C614	403 237 8057	MT- COMPO 0.1U J 50V
			Δ C615	403 179 3217	POLYESTER 0.015U J 50V

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
C616	403 246 8708	CERAMIC 1000P K 2K	R1023	401 038 7611	MT- GLAZE 560 JA 1/10W
C617	403 179 2418	POLYESTER 0.022U K 50V	R1024	401 038 0711	MT- GLAZE 2.2K JA 1/10W
△ C631	404 060 6505	CERAMIC 2200P M 400V	R1025	401 038 5310	MT- GLAZE 39K JA 1/10W
△ C632	404 044 2806	CERAMIC 470P K 400V	R1026	401 038 3712	MT- GLAZE 33K JA 1/10W
C640	403 069 8305	CERAMIC 0.01U Z 50V	R1027	401 027 6628	CARBON 75 JA 1/6W
C641	403 165 9335	CERAMIC 680P K 1K	R1028	401 027 6628	CARBON 75 JA 1/6W
C642	404 055 9801	ELECT 220U M 200V	R1029	401 014 2933	CARBON 150 JA 1/4W
C643	403 148 2002	ELECT 470U M 35V	R1031	401 038 0612	MT- GLAZE 220 JA 1/10W
C644	403 148 0701	ELECT 2200U M 25V	R1032	401 038 0612	MT- GLAZE 220 JA 1/10W
C645	403 158 1309	ELECT 2200U M 35V	R1033	401 038 0612	MT- GLAZE 220 JA 1/10W
C651	403 148 0305	ELECT 470U M 16V	R1041	401 038 2210	MT- GLAZE 27K JA 1/10W
△ C652	403 069 9510	CERAMIC CHIP 0.01 Z 50V	R1042	401 037 5618	MT- GLAZE 10K JA 1/10W
△ C653	403 248 1618	ELECT 47U M 16V	R1043	401 039 0314	MT- GLAZE 820 JA 1/10W
C655	403 126 4400	ELECT 100U M 10V	R1044	401 039 0314	MT- GLAZE 820 JA 1/10W
C661	403 233 1507	ELECT 4.7U M 50V	R1045	401 037 5410	MT- GLAZE 1K JA 1/10W
C681	403 190 4702	ELECT 1000U M 25V	R1046	401 038 0711	MT- GLAZE 2.2K JA 1/10W
C682	403 069 9510	CERAMIC CHIP 0.01 Z 50V	R1047	401 037 6714	MT- GLAZE 1.2K JA 1/10W
C683	403 147 9606	ELECT 1000U M 10V	R1051	401 037 8114	MT- GLAZE 150K JA 1/10W
C684	403 050 6600	ELECT 3.3U M 50V	R1052	401 037 5717	MT- GLAZE 100K JA 1/10W
C802	403 237 8057	MT- COMPO 0.1U J 50V	R1053	401 037 6714	MT- GLAZE 1.2K JA 1/10W
C812	403 049 0008	ELECT 1U M 50V	R1054	401 037 8114	MT- GLAZE 150K JA 1/10W
C814	403 049 0008	ELECT 1U M 50V	R1055	401 037 5717	MT- GLAZE 100K JA 1/10W
C816	403 051 0607	ELECT 4.7U M 50V	R1056	401 037 6714	MT- GLAZE 1.2K JA 1/10W
C818	403 051 0607	ELECT 4.7U M 50V	R108	401 037 5014	MT- GLAZE 0.000 ZA 1/10W
C841	403 069 9510	CERAMIC CHIP 0.01 Z 50V	R110	401 037 5014	MT- GLAZE 0.000 ZA 1/10W
C861	403 179 0810	POLYESTER 0.0056U J 5	R1200	401 022 1935	CARBON 680 JA 1/4W
C871	403 068 0419	CERAMIC 0.1U Z 25V	R1201	401 038 6515	MT- GLAZE 47K JA 1/10W
C872	403 051 0607	ELECT 4.7U M 50V	R1203	401 037 5618	MT- GLAZE 10K JA 1/10W
C873	403 018 0503	CERAMIC 22P J 50V	R1204	401 038 2210	MT- GLAZE 27K JA 1/10W
C874	403 018 0503	CERAMIC 22P J 50V	R1205	401 038 2210	MT- GLAZE 27K JA 1/10W
C875	403 068 0419	CERAMIC 0.1U Z 25V	R1206	401 038 6515	MT- GLAZE 47K JA 1/10W
C878	403 073 9117	CERAMIC 4700P K 50V	R1207	401 012 7049	CARBON 10K JA 1/4W
C879	403 068 0419	CERAMIC 0.1U Z 25V	R121	401 020 2944	CARBON 47K JA 1/4W
C881	403 069 9510	CERAMIC CHIP 0.01 Z 50V	R133	401 037 9111	MT- GLAZE 180 JA 1/10W
C882	403 049 4204	ELECT 10U M 50V	R134	401 039 0413	MT- GLAZE 8.2K JA 1/10W
C883	403 018 0503	CERAMIC 22P J 50V	R135	401 038 0810	MT- GLAZE 22K JA 1/10W
C884	403 018 0503	CERAMIC 22P J 50V	R137	401 037 5212	MT- GLAZE 100 JA 1/10W
C892	403 069 9510	CERAMIC CHIP 0.01 Z 50V	R138	401 038 7710	MT- GLAZE 5.6K JA 1/10W
RESISTOR			R141	401 038 9219	MT- GLAZE 6.8K JA 1/10W
R001	401 037 5410	MT- GLAZE 1K JA 1/10W	R150	401 024 7024	CARBON 1K JA 1/6W
R002	401 037 9210	MT- GLAZE 1.8K JA 1/10W	R151	401 022 1935	CARBON 680 JA 1/4W
R003	401 037 5410	MT- GLAZE 1K JA 1/10W	R152	401 025 3827	CARBON 180 JA 1/6W
R004	401 037 9210	MT- GLAZE 1.8K JA 1/10W	R153	401 037 5410	MT- GLAZE 1K JA 1/10W
R005	401 019 9640	CARBON 47 JA 1/4W	R154	401 038 7611	MT- GLAZE 560 JA 1/10W
R006	401 014 4145	CARBON 1K5 JA 1/4W	R155	401 037 5410	MT- GLAZE 1K JA 1/10W
R007	401 019 9640	CARBON 47 JA 1/4W	R156	401 037 5410	MT- GLAZE 1K JA 1/10W
R008	401 014 4145	CARBON 1K5 JA 1/4W	R157	401 039 0918	MT- GLAZE 910 JA 1/10W
R009	401 010 1514	CARBON 4.7 JA 1/2W	R158	401 037 5410	MT- GLAZE 1K JA 1/10W
R010	401 010 1514	CARBON 4.7 JA 1/2W	R159	401 022 1935	CARBON 680 JA 1/4W
R013	401 037 6714	MT- GLAZE 1.2K JA 1/10W	R163	401 038 6515	MT- GLAZE 47K JA 1/10W
R014	401 016 2644	CARBON 220 JA 1/4W	R171	401 038 6317	MT- GLAZE 470 JA 1/10W
R015	401 037 5410	MT- GLAZE 1K JA 1/10W	R172	401 016 2644	CARBON 220 JA 1/4W
R016	401 038 6515	MT- GLAZE 47K JA 1/10W	R173	401 025 7429	CARBON 220 JA 1/6W
R017	401 037 5618	MT- GLAZE 10K JA 1/10W	R1900	401 038 7819	MT- GLAZE 56K JA 1/10W
R100	401 037 5014	MT- GLAZE 0.000 ZA 1/10W	R1901	401 037 8015	MT- GLAZE 15K JA 1/10W
R1001	401 038 7611	MT- GLAZE 560 JA 1/10W	R1901A	401 037 5014	MT- GLAZE 0.000 ZA 1/10W
R1002	401 038 0711	MT- GLAZE 2.2K JA 1/10W	R1902	401 039 0413	MT- GLAZE 8.2K JA 1/10W
R1003	401 038 7611	MT- GLAZE 560 JA 1/10W	R1902A	401 037 5014	MT- GLAZE 0.000 ZA 1/10W
R1004	401 038 0711	MT- GLAZE 2.2K JA 1/10W	R1903	401 038 6416	MT- GLAZE 4.7K JA 1/10W
R1005	401 027 6628	CARBON 75 JA 1/6W	R1903A	401 037 5014	MT- GLAZE 0.000 ZA 1/10W
R1006	401 038 5310	MT- GLAZE 39K JA 1/10W	R1904	401 038 2111	MT- GLAZE 2.7K JA 1/10W
R1007	401 038 3712	MT- GLAZE 33K JA 1/10W	R1905	401 038 0711	MT- GLAZE 2.2K JA 1/10W
R1008	401 027 6628	CARBON 75 JA 1/6W	R1906	401 037 5014	MT- GLAZE 0.000 ZA 1/10W
R1009	401 027 6628	CARBON 75 JA 1/6W	R1907	401 037 5618	MT- GLAZE 10K JA 1/10W
R101	401 038 6218	MT- GLAZE 47 JA 1/10W	R1908	401 038 3514	MT- GLAZE 330 JA 1/10W
R1010	401 027 6628	CARBON 75 JA 1/6W	R1909	401 037 7919	MT- GLAZE 1.5K JA 1/10W
R1011	401 037 5212	MT- GLAZE 100 JA 1/10W	R1911	401 038 6317	MT- GLAZE 470 JA 1/10W
R1012	401 027 6628	CARBON 75 JA 1/6W	R1921	401 037 6615	MT- GLAZE 120 JA 1/10W
R1013	401 012 4543	CARBON 100 JA 1/4W	R1922	401 038 5013	MT- GLAZE 390 JA 1/10W
R1014	401 027 6628	CARBON 75 JA 1/6W	R1924	401 022 3147	CARBON 6K8 JA 1/4W
R1015	401 038 6416	MT- GLAZE 4.7K JA 1/10W	R2001	401 038 2210	MT- GLAZE 27K JA 1/10W
R1016	401 019 1040	CARBON 390 JA 1/4W	R2002	401 037 5618	MT- GLAZE 10K JA 1/10W
R1017	401 024 7430	CARBON 10K JA 1/6W	R2004	401 037 7810	MT- GLAZE 150 JA 1/10W
R1018	401 038 3514	MT- GLAZE 330 JA 1/10W	R2005	401 019 1941	CARBON 3K9 JA 1/4W
R1021	401 038 7611	MT- GLAZE 560 JA 1/10W	R201	401 039 0413	MT- GLAZE 8.2K JA 1/10W
R1022	401 038 0711	MT- GLAZE 2.2K JA 1/10W	R202	401 037 5717	MT- GLAZE 100K JA 1/10W
			R203	401 024 6720	CARBON 100 JA 1/6W

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R204	401 024 6720	CARBON 100 JA 1/6W	△ R632	402 000 8602	SOLID 5.6M KA 1/2W
R205	401 024 6720	CARBON 100 JA 1/6W	△ R641	401 014 6149	CARBON 150K JA 1/4W
R206	401 037 5212	MT- GLAZE 100 JA 1/10W	R642	401 027 4327	CARBON 6.2K JA 1/6W
R207	401 037 5212	MT- GLAZE 100 JA 1/10W	R643	401 015 4738	CARBON 180K JA 1/4W
R208	401 037 5212	MT- GLAZE 100 JA 1/10W	R644	401 011 2718	CARBON 68K JA 1/2W
R212	401 017 1844	CARBON 2K7 JA 1/4W	R645	401 025 8228	CARBON 22K JA 1/6W
R213	401 038 7710	MT- GLAZE 5.6K JA 1/10W	△ R646	402 069 9800	WI RE WOUND 2.7 KA 5W
R214	401 037 5212	MT- GLAZE 100 JA 1/10W	△ R647	402 076 0609	WI RE WOUND 8.2 KA 7W
R215	401 038 3712	MT- GLAZE 33K JA 1/10W	R648	401 026 9927	CARBON 4K7 JA 1/6W
R216	401 016 4836	CARBON 22K JA 1/4W	△ R651	401 064 3806	OXI DE- MT 1 JA 2W
R217	401 016 4836	CARBON 22K JA 1/4W	△ R652	401 065 1801	OXI DE- MT 12 JA 2W
R218	401 038 7819	MT- GLAZE 56K JA 1/10W	△ R653	401 067 8204	OXI DE- MT 39 JA 2W
R223	401 014 0305	CARBON 130K JA 1/4W	△ R655	401 067 4206	OXI DE- MT 33 JA 2W
R224	401 024 7024	CARBON 1K JA 1/6W	R656	401 026 9620	CARBON 470 JA 1/6W
R226	401 026 7428	CARBON 39K JA 1/6W	△ R661	401 068 4700	OXI DE- MT 4.7K JA 2W
R227	401 012 7049	CARBON 10K JA 1/4W	R662	401 068 8807	OXI DE- MT 5.6K JA 2W
R231	401 037 7810	MT- GLAZE 150 JA 1/10W	R681	401 008 1628	CARBON 1K8 JA 1/2W
R232	401 037 7810	MT- GLAZE 150 JA 1/10W	△ R682	401 069 1708	OXI DE- MT 68 JA 2W
R271	401 024 6720	CARBON 100 JA 1/6W	R684	401 023 2842	CARBON 8K2 JA 1/4W
R272	401 024 9028	CARBON 120 JA 1/6W	R685	401 025 8228	CARBON 22K JA 1/6W
R351	401 037 5212	MT- GLAZE 100 JA 1/10W	R800	401 016 3849	CARBON 2.2K JA 1/4W
R353	401 038 0919	MT- GLAZE 220K JA 1/10W	R801	401 037 5014	MT- GLAZE 0.000 ZA 1/10W
R354	401 027 0329	CARBON 47K JA 1/6W	R802	401 038 0711	MT- GLAZE 2.2K JA 1/10W
R355	401 012 9904	CARBON 10M JA 1/4W	R803	401 037 9418	MT- GLAZE 180K JA 1/10W
R356	401 037 5212	MT- GLAZE 100 JA 1/10W	R804	401 024 7430	CARBON 10K JA 1/6W
R357	401 037 5618	MT- GLAZE 10K JA 1/10W	△ R806	401 024 7430	CARBON 10K JA 1/6W
R361	401 038 5419	MT- GLAZE 390K JA 1/10W	△ R807	401 024 7430	CARBON 10K JA 1/6W
R363	401 038 0810	MT- GLAZE 22K JA 1/10W	R808	401 019 1941	CARBON 3K9 JA 1/4W
R364	401 037 5212	MT- GLAZE 100 JA 1/10W	R811	401 016 3849	CARBON 2.2K JA 1/4W
R365	401 038 6416	MT- GLAZE 4.7K JA 1/10W	R812	401 038 5112	MT- GLAZE 3.9K JA 1/10W
R431	401 038 3514	MT- GLAZE 330 JA 1/10W	R813	401 018 4933	CARBON 33K JA 1/4W
R432	401 037 5410	MT- GLAZE 1K JA 1/10W	R815	401 012 4543	CARBON 100 JA 1/4W
R433	401 007 1134	CARBON 1K JA 1/2W	R816	401 037 5618	MT- GLAZE 10K JA 1/10W
△ R434	401 067 9201	OXI DE- MT 390 JA 2W	R817A	401 039 0413	MT- GLAZE 8.2K JA 1/10W
△ R435	402 075 2307	WI RE WOUND 10 JA 5W	R818	401 038 9318	MT- GLAZE 68K JA 1/10W
△ R436	401 012 7049	CARBON 10K JA 1/4W	R819	401 016 3849	CARBON 2.2K JA 1/4W
△ R441	401 058 3706	OXI DE- MT 1K JA 1W	R820	401 037 5618	MT- GLAZE 10K JA 1/10W
R447	401 026 9927	CARBON 4K7 JA 1/6W	R821	401 038 0810	MT- GLAZE 22K JA 1/10W
R448	401 009 5843	CARBON 330 JA 1/2W	R822	401 038 6515	MT- GLAZE 47K JA 1/10W
△ R451	401 061 0808	OXI DE- MT 3.9 JA 1W	R823	401 013 5341	CARBON 1K2 JA 1/4W
R462	401 021 1946	CARBON 560 JA 1/4W	R824	401 038 5112	MT- GLAZE 3.9K JA 1/10W
R463	401 025 7825	CARBON 2K2 JA 1/6W	R825	401 038 3613	MT- GLAZE 3.3K JA 1/10W
R463A	401 015 3840	CARBON 18K JA 1/4W	R838	401 037 8015	MT- GLAZE 15K JA 1/10W
R467	401 025 8723	CARBON 220K JA 1/6W	R839	401 018 4933	CARBON 33K JA 1/4W
R468	401 025 4220	CARBON 1K8 JA 1/6W	R840	401 020 0841	CARBON 470 JA 1/4W
R469	401 027 5928	CARBON 68K JA 1/6W	R841	401 038 0810	MT- GLAZE 22K JA 1/10W
R470	401 027 0329	CARBON 47K JA 1/6W	R842	401 020 2053	CARBON 4.7K JA 1/4W
R471	401 025 1625	CARBON 1K5 JA 1/6W	R843	401 037 5618	MT- GLAZE 10K JA 1/10W
R472	401 027 0329	CARBON 47K JA 1/6W	R844	401 038 5112	MT- GLAZE 3.9K JA 1/10W
R473	401 027 5225	CARBON 680 JA 1/6W	R845	401 037 5618	MT- GLAZE 10K JA 1/10W
R474	401 009 0927	CARBON 270 JA 1/2W	R846	401 038 6416	MT- GLAZE 4.7K JA 1/10W
R481	401 015 4738	CARBON 180K JA 1/4W	R847	401 037 5618	MT- GLAZE 10K JA 1/10W
R482	401 027 2620	CARBON 5K6 JA 1/6W	R848	401 038 6416	MT- GLAZE 4.7K JA 1/10W
R501	401 020 2053	CARBON 4.7K JA 1/4W	R851	401 037 5410	MT- GLAZE 1K JA 1/10W
△ R502	402 002 2004	FUSIBLE RES 4.7 J- 1/2W	R852	401 037 5410	MT- GLAZE 1K JA 1/10W
R504	401 027 3023	CARBON 56K JA 1/6W	R853	401 038 0810	MT- GLAZE 22K JA 1/10W
R505	401 027 5522	CARBON 6K8 JA 1/6W	R861	401 038 2111	MT- GLAZE 2.7K JA 1/10W
R506	401 017 1844	CARBON 2K7 JA 1/4W	R862	401 038 0810	MT- GLAZE 22K JA 1/10W
R507	401 025 3827	CARBON 180 JA 1/6W	R863	401 038 0810	MT- GLAZE 22K JA 1/10W
R508	401 025 7825	CARBON 2K2 JA 1/6W	R864	401 039 0314	MT- GLAZE 820 JA 1/10W
△ R509	401 057 6807	OXI DE- MT 0.68 JA 1W	R865	401 038 0711	MT- GLAZE 2.2K JA 1/10W
△ R511	401 059 2807	OXI DE- MT 150 JA 1W	R866	401 038 0711	MT- GLAZE 2.2K JA 1/10W
△ R513	401 063 1001	OXI DE- MT 680 JA 1W	R867	401 038 0711	MT- GLAZE 2.2K JA 1/10W
R521		CUTTING WIRE	R868	401 037 6714	MT- GLAZE 1.2K JA 1/10W
△ R602	402 072 4403	WI RE WOUND 3.9 KA 7W	R869	401 038 2210	MT- GLAZE 27K JA 1/10W
R611	401 027 2620	CARBON 5K6 JA 1/6W	R870	401 016 4836	CARBON 22K JA 1/4W
R615	401 025 8228	CARBON 22K JA 1/6W	R870A	401 037 5014	MT- GLAZE 0.000 ZA 1/10W
R617	401 024 7024	CARBON 1K JA 1/6W	R871	401 038 6416	MT- GLAZE 4.7K JA 1/10W
R619	401 016 1538	CARBON 22 JA 1/4W	R872	401 038 3712	MT- GLAZE 33K JA 1/10W
R620	401 007 5815	CARBON 120K JA 1/2W	R873	401 038 6416	MT- GLAZE 4.7K JA 1/10W
R621	401 007 5815	CARBON 120K JA 1/2W	R874	401 037 5618	MT- GLAZE 10K JA 1/10W
R622	401 014 5241	CARBON 15K JA 1/4W	R875	401 038 7710	MT- GLAZE 5.6K JA 1/10W
R623	401 025 4220	CARBON 1K8 JA 1/6W	R876	401 037 5618	MT- GLAZE 10K JA 1/10W
△ R624	401 068 6902	OXI DE- MT 56 JA 2W	R877	401 039 0413	MT- GLAZE 8.2K JA 1/10W
△ R625	401 065 9609	OXI DE- MT 18 JA 2W	R878	401 037 7919	MT- GLAZE 1.5K JA 1/10W
R626	401 016 3344	QARBON 2.2K GA 1/4W	R879	401 037 5618	MT- GLAZE 10K JA 1/10W
△ R631	402 000 8602	SOLID 5.6M KA 1/2W	R880	401 038 6515	MT- GLAZE 47K JA 1/10W

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R884	401 037 7810	MT- GLAZE 150 JA 1/10W	D1024	407 063 8319	ZENER DIODE MTZJ11C
R885	401 038 5112	MT- GLAZE 3.9K JA 1/10W	D1026	407 063 8319	ZENER DIODE MTZJ11C
R886	401 037 7810	MT- GLAZE 150 JA 1/10W	D1027	407 063 8319	ZENER DIODE MTZJ11C
R887	401 038 5112	MT- GLAZE 3.9K JA 1/10W	D1201	407 053 6803	ZENER DIODE MTZ5. 6C
R888	401 037 5212	MT- GLAZE 100 JA 1/10W	D135	407 063 8319	ZENER DIODE MTZJ11C
R889	401 037 5212	MT- GLAZE 100 JA 1/10W	D1901- 1	610 269 4710	HOLDER LED A- G2CA
R891	401 038 6416	MT- GLAZE 4. 7K JA 1/10W	D1901A	407 120 9706	LED LN28RPL
R892	401 038 6416	MT- GLAZE 4. 7K JA 1/10W	D1903	407 063 8319	ZENER DIODE MTZJ11C
R893	401 037 5410	MT- GLAZE 1K JA 1/10W	D1905	407 012 4416	DIODE 1SS133- T- 77
R894	401 037 5410	MT- GLAZE 1K JA 1/10W	D201	407 063 8319	ZENER DIODE MTZJ11C
R895	401 037 6714	MT- GLAZE 1. 2K JA 1/10W	D202	407 063 8319	ZENER DIODE MTZJ11C
R896	401 038 6515	MT- GLAZE 47K JA 1/10W	D203	407 063 8319	ZENER DIODE MTZJ11C
R897	401 012 5748	CARBON 1K JA 1/4W	D210	407 012 4416	DIODE 1SS133- T- 77
R898	401 012 5748	CARBON 1K JA 1/4W	D221	407 012 4416	DIODE 1SS133- T- 77
VARIABLE RESISTOR			D222	408 007 8607	DIODE 1N4148
VR131	645 003 5531	VR 10K ALPS	D271	407 053 6407	ZENER DIODE MTZ5. 1C
VR361	645 003 5531	VR 10K ALPS	D352	407 057 8308	ZENER DIODE RD8. 2EB2
VR462	645 003 5616	VR 4. 7K ALPS	Δ D361	407 075 9925	ZENER DIODE EQA03- 11A
VR501	645 006 5231	VR 100 ALPS	D431	407 053 8708	ZENER DIODE MTZ9. 1A
VR641	645 003 5579	VR 2. 2K ALPS	D432	407 005 7328	DIODE EMO1Z
TRANSFORMER			Δ D438	407 095 8001	DIODE ERD07- 15L
T101	610 037 4508	S COIL	D439	407 006 4128	DIODE ERB44- 04V1
T141	610 037 4522	S COIL	D442	408 007 8607	DIODE 1N4148
T431	610 223 1656	DRIVE TRANS	D445	407 012 4416	DIODE 1SS133- T- 77
Δ T451	645 017 4230	TRANS, FLYBACK PANA 25/28"	D446	407 151 9003	ZENER DIODE UZ- 7. 5BCC
Δ T611	645 015 7653	TRANS, POWER, PULSE	D464	407 053 6605	ZENER DIODE MTZ5. 6A
Δ T681	610 033 3758	POWER TRANS	D465	407 012 4416	DIODE 1SS133- T- 77
COIL			D466	407 077 9705	ZENER DIODE MTZ20A
L1002	645 002 4511	CORE, PIPE	D469	407 007 7415	DIODE EU1
L1003	645 001 4550	PEAKING COIL 10UHK	D471	408 007 8607	DIODE 1N4148
L1004	645 001 4550	PEAKING COIL 10UHK	D472	407 012 4416	DIODE 1SS133- T- 77
L1005	645 001 4550	PEAKING COIL 10UHK	D481	407 007 7415	DIODE EU1
L1006	645 001 4550	PEAKING COIL 10UHK	D482	407 012 4416	DIODE 1SS133- T- 77
L101	645 001 4710	PEAKING COIL 10UH J	D501	407 005 7328	DIODE EMO1Z
L102	645 001 5656	PEAKING COIL 4. 7UH K	D502	407 118 2217	ZENER DIODE 1Z75
L1022	645 002 4511	CORE, PIPE	D603	407 009 6921	DIODE RMI1C
L1023	645 001 4550	PEAKING COIL 10UHK	D604	407 009 6921	DIODE RMI1C
L1024	645 001 4550	PEAKING COIL 10UHK	D605	407 009 6921	DIODE RMI1C
L1025	645 001 4550	PEAKING COIL 10UHK	D606	407 009 6921	DIODE RMI1C
L1026	645 001 4550	PEAKING COIL 10UHK	D614	408 007 8607	DIODE 1N4148
L1027	645 001 5656	PEAKING COIL 4. 7UH K	Δ D615	408 009 8407	PHOTO COUPLE CNY17GF- 3
L141	645 001 4550	PEAKING COIL 10UHK	D616	408 007 8607	DIODE 1N4148
L151	645 002 1534	PEAKING COIL 8. 2UHK	D617	407 007 6616	DIODE ES1
L152	645 002 1459	PEAKING COIL	D618	408 007 8607	DIODE 1N4148
L201	645 001 4710	PEAKING COIL 10UH J	D619	407 053 3000	ZENER DIODE MTZ11C
L202	645 001 4710	PEAKING COIL 10UH J	D641	407 009 8816	DIODE RU3AM
L203	645 001 4710	PEAKING COIL 10UH J	D642	407 007 7613	DIODE EU2
L231	645 001 5656	PEAKING COIL 4. 7UH K	Δ D643	407 166 2303	DIODE ERC- 91- 02L
L232	645 003 8518	PEAKING COIL	D644	407 166 2303	DIODE ERC- 91- 02L
L431	645 008 5628	INDUCTOR, 1U M	D645	407 053 7206	ZENER DIODE MTZ6. 2C
L432	645 002 4511	CORE, PIPE	D647	407 012 4416	DIODE 1SS133- T- 77
L441	610 000 0971	LINEARITY COIL	D648	407 099 8601	ZENER DIODE MTZJ24A
L442	610 219 0342	COIL	D652	407 053 6803	ZENER DIODE MTZ5. 6C
L461	645 005 5645	INDUCTOR 222UH K 300MA	D654	407 012 4416	DIODE 1SS133- T- 77
L462	645 005 7014	INDUCTOR, 430UH	D655	407 012 4416	DIODE 1SS133- T- 77
Δ L501	645 008 5642	INDUCTOR, 3. 3U K	D661	409 026 8005	IC L5630
Δ L601	645 017 1260	ELF 18D431F LINE FILTER	D681	407 005 7328	DIODE EMO1Z
Δ L607	610 237 1000	PIPE CORE	D682	407 053 6803	ZENER DIODE MTZ5. 6C
L608	610 237 1000	PIPE CORE	D683	407 005 7328	DIODE EMO1Z
L641	645 002 4511	CORE, PIPE	D684	408 007 8607	DIODE 1N4148
L642	645 002 4511	CORE, PIPE	D685	407 012 4416	DIODE 1SS133- T- 77
L643	645 002 4511	CORE, PIPE	D831	408 007 8607	DIODE 1N4148
L871	645 008 2962	PEAKING COIL 5. 6UH K	D861	407 012 4416	DIODE 1SS133- T- 77
L881	645 012 8707	PEAKING COIL 1. 5UH M	D871	407 012 4416	DIODE 1SS133- T- 77
DIODE			D872	407 055 7927	ZENER DIODE RD3. 6EL
D1005	407 063 8319	ZENER DIODE MTZJ11C	MISCELLANEOUS		
D1007	407 063 8319	ZENER DIODE MTZJ11C	A101	645 023 4118	TUNER, U/V
D1008	407 063 8319	ZENER DIODE MTZJ11C	A1901	645 007 1546	UNIT, REMOCON RECEIVER
D1010	407 063 8319	ZENER DIODE MTZJ11C	Δ F601	423 022 2102	FUSE 250V 4. 0A
D1011	407 063 8319	ZENER DIODE MTZJ11C	F601A	645 000 5077	HOLDER, FUSE
D1021	407 063 8319	ZENER DIODE MTZJ11C	F601B	645 000 5077	HOLDER, FUSE
D1022	407 063 8319	ZENER DIODE MTZJ11C	J025	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
D1023	407 063 8319	ZENER DIODE MTZJ11C	Δ J130	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
			J151	401 037 5816	MT- GLAZE 1M JA 1/10W
			J194	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W
			J225	401 037 5014	MT- GLAZE 0. 000 ZA 1/10W

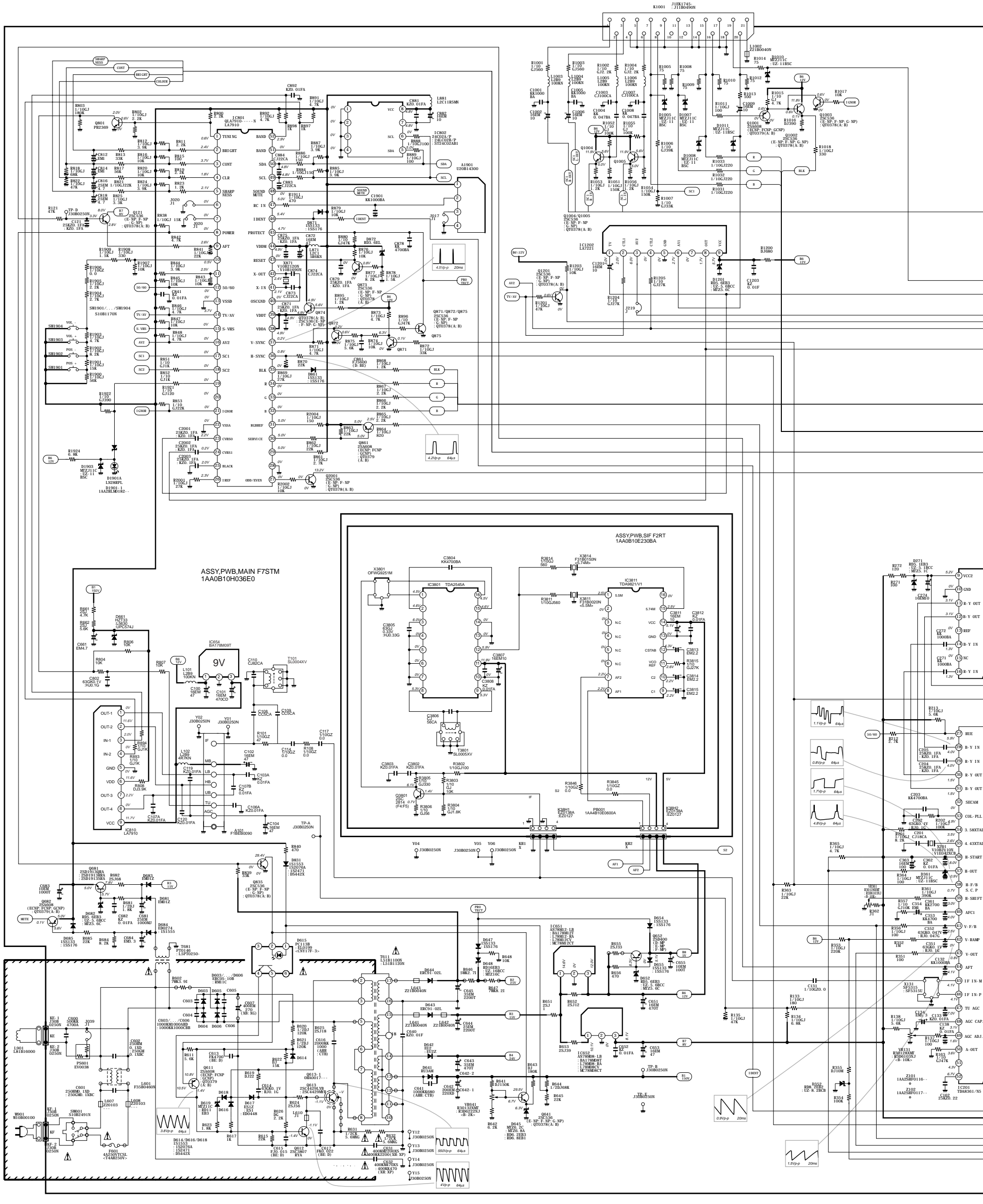
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
J226	401 037 5014	MT- GLAZE 0.000 ZA 1/10W	ASSY,PWB,SIF F2RT 1AA0B10E230BA		
J231	401 037 5014	MT- GLAZE 0.000 ZA 1/10W	TRANSISTOR		
J232	401 037 5014	MT- GLAZE 0.000 ZA 1/10W	Q3801	405 015 9701	TR 2SC2814- F4- TA
J233	401 037 5014	MT- GLAZE 0.000 ZA 1/10W		405 015 9909	TR 2SC2814- F5- TA
J234	401 037 5014	MT- GLAZE 0.000 ZA 1/10W	Q3802	405 109 4407	TR BC848- B
J235	401 037 5014	MT- GLAZE 0.000 ZA 1/10W		405 015 8704	TR 2SC2812- L6- TA
J236	401 037 5014	MT- GLAZE 0.000 ZA 1/10W	INTEGRATED CIRCUIT		
J237	401 037 5014	MT- GLAZE 0.000 ZA 1/10W	IC3801	409 290 4307	IC TDA2545A/V4
J238	401 037 5014	MT- GLAZE 0.000 ZA 1/10W	IC3811	409 376 6300	IC TDA9821/V1
J239	401 037 5014	MT- GLAZE 0.000 ZA 1/10W	CAPACITOR		
J240	401 037 5014	MT- GLAZE 0.000 ZA 1/10W	C3802	403 069 9510	CERAMIC CHIP 0.01Z 50V
J241	401 037 5014	MT- GLAZE 0.000 ZA 1/10W	△ C3803	403 069 9510	CERAMIC CHIP 0.01Z 50V
J242	401 037 5014	MT- GLAZE 0.000 ZA 1/10W	C3804	403 073 9117	CERAMIC 4700P K 50V
J243	401 037 5014	MT- GLAZE 0.000 ZA 1/10W	C3805	403 166 8010	MT- POLYEST 0.33U J 63V
J245	401 037 5014	MT- GLAZE 0.000 ZA 1/10W	C3806	403 028 4112	CERAMIC 56P J 50V
J247	401 037 5014	MT- GLAZE 0.000 ZA 1/10W	C3807	403 041 8804	ELECT 10U M 50V
KA	645 005 8592	SOCKET, 10P	C3808	403 069 9510	CERAMIC CHIP 0.01Z 50V
KB	645 005 8592	SOCKET, 10P	C3811	403 041 8804	ELECT 10U M 50V
KDY- 1	645 008 4058	TERMINAL PLUG	C3812	403 069 9510	CERAMIC CHIP 0.01Z 50V
KDY- 3	645 008 4058	TERMINAL PLUG	C3813	403 049 9803	ELECT 2.2U M 50V
KDY- 5	645 008 4058	TERMINAL PLUG	C3814	403 049 9803	ELECT 2.2U M 50V
KDY- 6	645 008 4058	TERMINAL PLUG	C3815	403 049 9803	ELECT 2.2U M 50V
△ KE- 1	645 008 4058	TERMINAL PLUG	RESISTOR		
KE- 2	645 008 4058	TERMINAL PLUG	R3802	401 037 5212	MT- GLAZE 100 JA 1/10W
△ KF- 1	645 008 4058	TERMINAL PLUG	R3803	401 037 5618	MT- GLAZE 10K JA 1/10W
KF- 2	645 008 4058	TERMINAL PLUG	R3804	401 037 9210	MT- GLAZE 1.8K JA 1/10W
KL	645 004 2881	PLUG, 2P	R3805	401 038 3514	MT- GLAZE 330 JA 1/10W
KP	645 008 7288	HOUSING PLUG 5P	R3806	401 038 7512	MT- GLAZE 56 JA 1/10W
△ KQ	645 008 7264	HOUSING PLUG 3P	R3811	401 038 7611	MT- GLAZE 560 JA 1/10W
KR- 1	645 008 4058	TERMINAL PLUG	R3814	401 038 7611	MT- GLAZE 560 JA 1/10W
KR- 2	645 008 4058	TERMINAL PLUG	R3815	401 038 2210	MT- GLAZE 27K JA 1/10W
KSC	645 008 4058	TERMINAL PLUG	R3845	401 037 5014	MT- GLAZE 0.000 ZA 1/10W
K10B	645 008 7288	HOUSING PLUG 5P	R3846	401 037 5014	MT- GLAZE 0.000 ZA 1/10W
K1001	645 005 5867	21- PIN SOCKET	R3848	401 037 5014	MT- GLAZE 0.000 ZA 1/10W
K1001- 2A	411 023 9305	SCR S- TPG PAN 3X7	TRANSFORMER		
K1001- 2B	411 023 9305	SCR S- TPG PAN 3X7	T3801	610 037 4522	S COIL
K1001Z	610 261 2813	MOUNTING BRKT- F2WV	MISCELLANEOUS		
K1002	645 005 5867	21- PIN SOCKET	K38H1	645 027 9294	TERMINAL 4P
K1002- 2A	411 023 9305	SCR S- TPG PAN 3X7	K38H2	645 027 9294	TERMINAL 4P
K1002- 2B	411 023 9305	SCR S- TPG PAN 3X7	PB001	610 259 5857	PWB, AUDIO&SIF F2RC
K1002Z	610 261 2813	MOUNTING BRKT- F2WV	X3801	421 006 2902	SAW F OFW G9251
PB101	610 275 0539	PWB, MAIN F3SS	X3811	645 003 2806	CERAMIC FILTER (5.5C)
PS601	408 013 3801	TH PTH451C262BF140M270	X3814	645 006 3022	CERAMIC FILTER (5.74A)
SW1901	610 011 4432	SWITCH, PUSH	ASSY,PWB,AUDIO F2RT 1AA0B10E230BB		
SW1902	610 011 4432	SWITCH, PUSH	TRANSISTOR		
SW1903	610 011 4432	SWITCH, PUSH	Q1251	405 109 4407	TR BC848
SW1904	610 011 4432	SWITCH, PUSH	Q1252	405 109 4407	TR BC848
SW501	610 011 2728	SWITCH, LEVER 1P- 3T	Q3431	405 109 4407	TR BC848
△ SW601	645 024 0607	PUSH SW POWER SDDFC3	Q3432	405 109 4407	TR BC848
TP- A	645 008 4058	TERMINAL PLUG	Q3482	405 109 4407	TR BC848
TP- B	645 008 4058	TERMINAL PLUG	Q3484	405 109 4407	TR BC848
TP- D	645 008 4058	TERMINAL PLUG	INTEGRATED CIRCUIT		
TP- E	645 008 4058	TERMINAL PLUG	IC1251	409 009 2501	IC HD14052BP
X131	421 002 2609	SAW F TSF5315	IC3401	409 371 6206	IC TDA9840/V2
X151	610 015 2854	TRAP, CERAMIC 5.5MHZ	IC3431	409 316 4601	IC TDA8424
X152	645 000 4490	TRAP, CERAMIC (6.5W3)	CAPACITOR		
X201	645 025 2631	OSC, CRYSTAL 4.43MHZ	C1251	403 233 0817	ELECT 10U M 50V
X871	645 018 9593	OSC, CRYSTAL 12MHZ	C3401	403 233 0817	ELECT 10U M 50V
Y01	645 008 4058	TERMINAL PLUG	C3402	403 069 5611	CERAMIC 0.01U K 50V
Y02	645 008 4058	TERMINAL PLUG	C3403	403 068 0419	CERAMIC 0.1U Z 25V
Y04	645 008 4058	TERMINAL PLUG	C3404	403 310 5018	CERAMIC 3300P G 25V
Y05	645 008 4058	TERMINAL PLUG	C3405	403 233 0312	ELECT 100U M 16V
Y06	645 008 4058	TERMINAL PLUG	C3406	401 037 5014	MT- GLAZE 0.000 ZA 1/10W
Y07	645 008 4058	TERMINAL PLUG	C3407	403 026 2813	CERAMIC 47P J 50V
Y08	645 008 4058	TERMINAL PLUG	C3408	403 248 2813	ELECT 2.2U M 50V
Y09	645 008 4058	TERMINAL PLUG			
Y10	645 008 4058	TERMINAL PLUG			
Y11	645 008 4058	TERMINAL PLUG			
Y12	645 008 4058	TERMINAL PLUG			
Y13	645 008 4058	TERMINAL PLUG			
Y14	645 008 4058	TERMINAL PLUG			
△ Y15	645 008 4058	TERMINAL PLUG			
Z101	610 259 7813	SHIELD CASE- A- F2RC			
Z102	610 259 7820	SHIELD CASE- B- F2RC			

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
C3409	403 248 2813	ELECT 2. 2U M 50V			
C3411	403 069 5611	CERAMIC 0. 01U K 50V			
C3412	403 069 5611	CERAMIC 0. 01U K 50V			
C3421	403 069 9510	CERAMIC CHIP 0. 01 Z 50V			
C3422	403 233 0817	ELECT 10U M 50V			
C3431	403 248 1410	ELECT 1U M 50V			
C3432	403 233 0312	ELECT 100U M 16V			
C3433	403 248 1410	ELECT 1U M 50V			
C3434	403 068 0419	CERAMIC 0. 1U Z 25V			
C3435	403 068 3212	CERAMIC 0. 033U K 25V			
C3436	403 074 7617	CERAMIC 5600P K 50V			
C3437	403 074 7617	CERAMIC 5600P K 50V			
C3438	403 068 3212	CERAMIC 0. 033U K 25V			
C3485	403 179 4501	NP-ELECT 0. 47U M 50V			
C3486	403 179 4501	NP-ELECT 0. 47U M 50V			
RESISTOR					
R1251	401 038 2111	MT-GLAZE 2. 7K JA 1/10W			
R1252	401 038 9219	MT-GLAZE 6. 8K JA 1/10W			
R1253	401 039 0512	MT-GLAZE 82K JA 1/10W			
R1254	401 039 0512	MT-GLAZE 82K JA 1/10W			
R1256	401 039 0512	MT-GLAZE 82K JA 1/10W			
R1257	401 038 6317	MT-GLAZE 470 JA 1/10W			
R1258	401 038 0711	MT-GLAZE 2. 2K JA 1/10W			
R1262	401 039 0512	MT-GLAZE 82K JA 1/10W			
R1263	401 039 0512	MT-GLAZE 82K JA 1/10W			
R1264	401 039 0512	MT-GLAZE 82K JA 1/10W			
R1265	401 038 6317	MT-GLAZE 470 JA 1/10W			
R1266	401 038 0711	MT-GLAZE 2. 2K JA 1/10W			
R3401	401 037 5212	MT-GLAZE 100 JA 1/10W			
R3402	401 037 5212	MT-GLAZE 100 JA 1/10W			
R3403	401 038 3118	MT-GLAZE 30K JA 1/10W			
R3431	401 037 5212	MT-GLAZE 100 JA 1/10W			
R3432	401 037 5212	MT-GLAZE 100 JA 1/10W			
R3433	401 037 5212	MT-GLAZE 100 JA 1/10W			
R3434	401 037 7919	MT-GLAZE 1. 5K JA 1/10W			
R3435	401 037 5212	MT-GLAZE 100 JA 1/10W			
R3436	401 037 7919	MT-GLAZE 1. 5K JA 1/10W			
R3477	401 038 0711	MT-GLAZE 2. 2K JA 1/10W			
R3479	401 038 0711	MT-GLAZE 2. 2K JA 1/10W			
R3481	401 038 0711	MT-GLAZE 2. 2K JA 1/10W			
R3482	401 038 0711	MT-GLAZE 2. 2K JA 1/10W			
TRANSFORMER					
T3401	645 015 7943	COIL, FERRITE 2. 5M			
COIL					
L3451	401 037 5014	MT-GLAZE 0. 000 ZA 1/10W			
MISCELLANEOUS					
J1201	401 037 5014	MT-GLAZE 0. 000 ZA 1/10W			
J1203	401 037 5014	MT-GLAZE 0. 000 ZA 1/10W			
J1204	401 037 5014	MT-GLAZE 0. 000 ZA 1/10W			
J3401	401 037 5014	MT-GLAZE 0. 000 ZA 1/10W			
J3402	401 037 5014	MT-GLAZE 0. 000 ZA 1/10W			
J3403	401 037 5014	MT-GLAZE 0. 000 ZA 1/10W			
J3405	401 037 5014	MT-GLAZE 0. 000 ZA 1/10W			
J3408	401 037 5014	MT-GLAZE 0. 000 ZA 1/10W			
J3412	401 037 5014	MT-GLAZE 0. 000 ZA 1/10W			
J3413	401 037 5014	MT-GLAZE 0. 000 ZA 1/10W			
J3421	401 037 5014	MT-GLAZE 0. 000 ZA 1/10W			
J3431	401 037 5014	MT-GLAZE 0. 000 ZA 1/10W			
J3432	401 037 5014	MT-GLAZE 0. 000 ZA 1/10W			
J3467	401 037 5014	MT-GLAZE 0. 000 ZA 1/10W			
J3469	401 037 5014	MT-GLAZE 0. 000 ZA 1/10W			
J3470	401 037 5014	MT-GLAZE 0. 000 ZA 1/10W			
J3477	401 037 5014	MT-GLAZE 0. 000 ZA 1/10W			
J3478	401 037 5014	MT-GLAZE 0. 000 ZA 1/10W			
J3481	401 037 5014	MT-GLAZE 0. 000 ZA 1/10W			
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			
K34A	645 008 3341	PLUG, 10P			
K34B	645 008 3341	PLUG, 10P			
T3401	645 015 7943	COIL, FERRITE 2. 5M			
X3401	645 018 6875	OSC. CRYSTAL 10 MHZ			
			ASSY,PWB,CRT F3SS	1AA0B10E48900	
			TRANSISTOR		
	Q701	405 041 6507	TR 2SC2621-D-RA		
	Q711	405 041 6507	TR 2SC2621-D-RA		
	Q721	405 041 6507	TR 2SC2621-D-RA		
	Q740	406 007 1901	TR JC556A		
	Q751	406 007 1901	TR JC556A		
	CAPACITOR				
	C701	403 073 2910	CERAMIC 390P K 50V		
	C711	403 073 2910	CERAMIC 390P K 50V		
	C721	403 073 2910	CERAMIC 390P K 50V		
	C731	403 077 2728	CERAMIC 1000P P 2K		
	C735	403 055 8401	ELECT 22U M 250V		
	C751	403 248 1608	ELECT 47U M 16V		
	RESISTOR				
	R701	401 026 3925	CARBON 330 JA 1/6W		
	R702	401 026 7022	CARBON 3K9 JA 1/6W		
	R703	401 024 7024	CARBON 1K JA 1/6W		
	Δ R704	401 065 4604	OXI DE-MT 12K JA 2W		
	R705	401 009 6622	CARBON 3. 3K JA 1/2W		
	R711	401 026 3925	CARBON 330 JA 1/6W		
	R712	401 026 7022	CARBON 3K9 JA 1/6W		
	R713	401 025 7825	CARBON 2K2 JA 1/6W		
	Δ R714	401 065 4604	OXI DE-MT 12K JA 2W		
	R715	401 009 6622	CARBON 3. 3K JA 1/2W		
	R721	401 026 3925	CARBON 330 JA 1/6W		
	R722	401 026 7022	CARBON 3K9 JA 1/6W		
	R723	401 025 4220	CARBON 1K8 JA 1/6W		
	Δ R724	401 065 4604	OXI DE-MT 12K JA 2W		
	R725	401 009 6622	CARBON 3. 3K JA 1/2W		
	R727	401 026 9620	CARBON 470 JA 1/6W		
	R741	401 026 9927	CARBON 4K7 JA 1/6W		
	R742	401 026 4328	CARBON 3K3 JA 1/6W		
	R744	401 026 0627	CARBON 270 JA 1/6W		
	R752	401 024 7430	CARBON 10K JA 1/6W		
	R753	401 024 7430	CARBON 10K JA 1/6W		
	VARIABLE RESISTOR				
	VR701	645 003 5722	VR, SEMI, 4. 7K N		
	VR702	645 003 5647	VR, SEMI, 1K N		
	VR711	645 003 5722	VR, SEMI, 4. 7K N		
	VR712	645 003 5647	VR, SEMI, 1K N		
	VR721	645 003 5722	VR, SEMI, 4. 7K N		
	COIL				
	L701	645 007 9856	PEAKING COIL 220UH K		
	L711	645 007 9856	PEAKING COIL 220UH K		
	L721	645 007 9856	PEAKING COIL 220UH K		
	DIODE				
	D701	407 012 4416	DIODE 1SS133-T-77		
	D711	407 012 4416	DIODE 1SS133-T-77		
	D721	407 012 4416	DIODE 1SS133-T-77		
	D751	407 012 4416	DIODE 1SS133-T-77		
	MISCELLANEOUS				
	K7M	645 008 4058	TERMINAL PLUG		
	K7P	645 008 7288	HOUSING PLUG 5P		
	K7Q	645 008 7264	HOUSING PLUG 3P		
	Δ K701	645 031 7699	CRT SOCKET		
	OUT OF CIRCUIT - F7STM				
	PICTURE TUBE				
	Δ Q901	414 009 2208	CRT A66ECF50X05		
	COIL				
	Δ L901	645 025 6523	28DEG. COIL OREGA 47320235		
	MISCELLANEOUS				
	SP901	610 232 3986	SPEAKER		

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





COLOUR TELEVISION

SANYO

CHASSIS SERIES EB4

MODEL NUMBER CE28B3-C

SERVICE REF.NO. CE28B3-C-00

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.

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.

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.

NOTIZIE SULLA SICUREZZA DI FUNZIONAMENTO
Ogni sostituzione di componenti va fatta tenendo conto della sicurezza di funzionamento. I componenti indicati solo 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 voltmetro presi con un "VTVM" proven gono dal punto indicato sulla massa del chassis, i valori di voltmetro presi usando un segnale di barre colore sono con tutti i controlli alle loro posizioni normali ed il commutatore AFC in posizione "OFF". Il voltmetro può variare con l'intensità del segnale.

7. 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 oscillografo a larga banda ed una sonda bassa capacità.

8. Rispetto a quando indicato su questo schema possono essere state introdotte delle modifiche.

9. I diodi 1S1555 possono essere sostituiti con 1S2473, 1S2076 oppure DS472 a meno che sia specificato altrimenti.

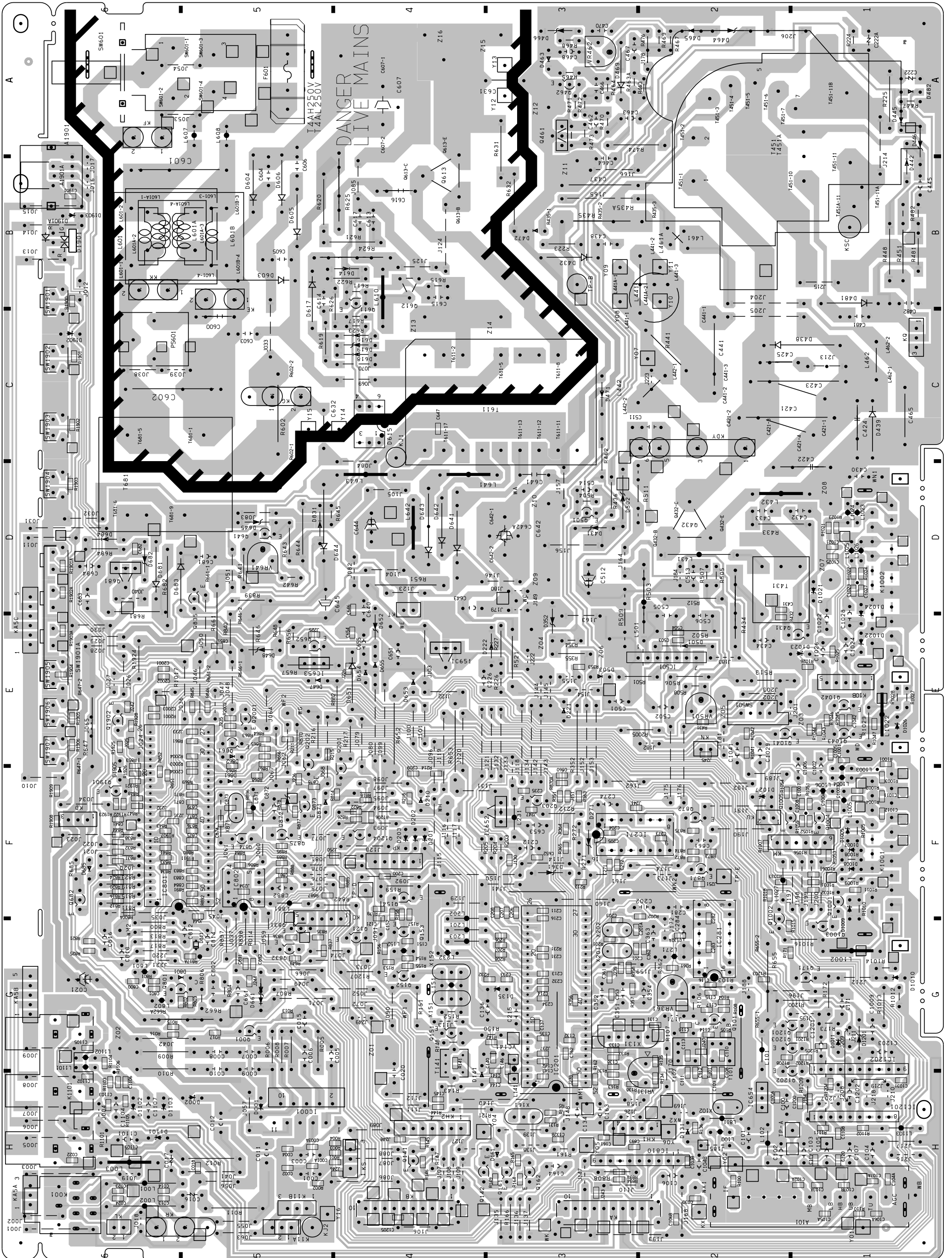
■ I transistori possono essere sostituiti con 2SC536(Q,R,S), 2SC1740(Q,R,S), 2SC945A(Q,R,P) oppure 2SC1815(G,O,Y) a meno che sia specificato altrimenti.

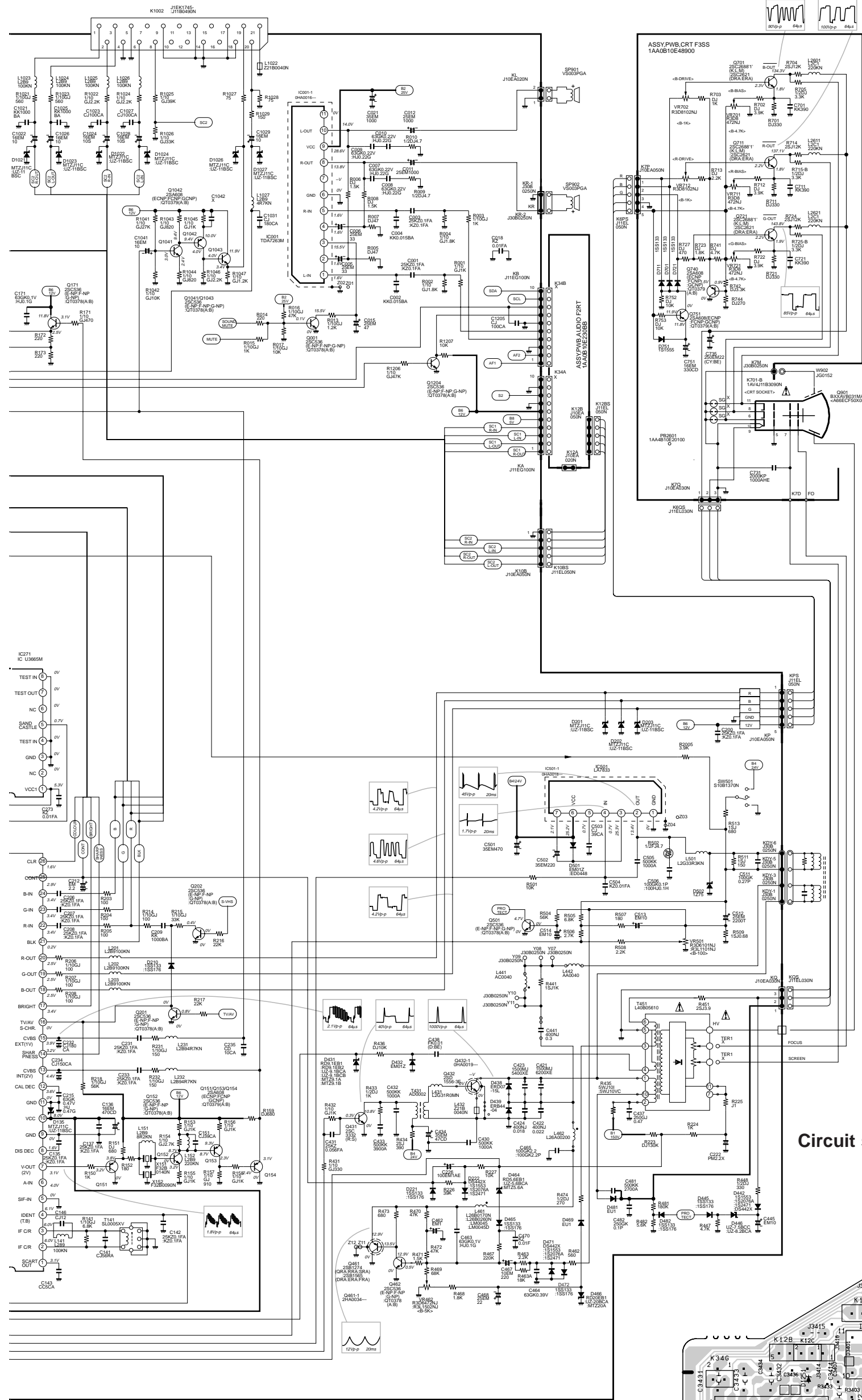
■ Il transistor 2SA608(E,F) può essere sostituito con 2SA933(Q,R), 2SA564(QA,RA), oppure 2SA1015(O,Y) a meno che sia specificato altrimenti.

Circuit diagram notes :

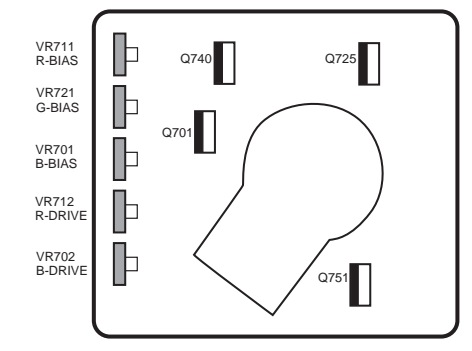
- All resistance values are in ohms, K=1,000, M=1,000,000.
- All resistance rated wattages are 1/6W unless otherwise noted.
- Excepting electrolytic capacitors, all capacitance values of less than 1 are expressed in μF and more than 1 are pF.
- All capacitance rated voltages are 50V unless otherwise 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

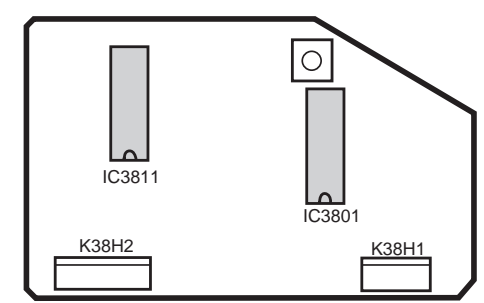




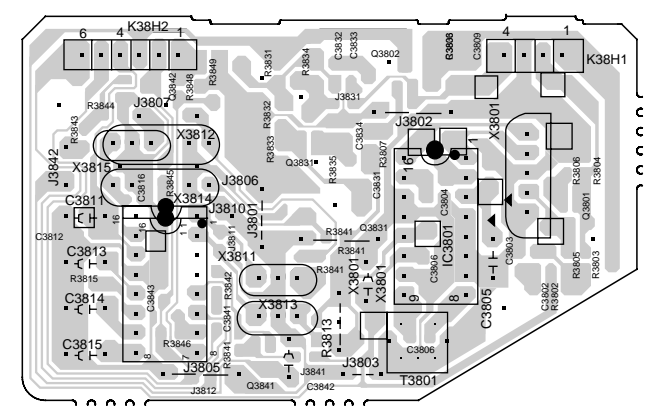
CRT Board /Pannello Cinescopio Component Location/Lato del Componente



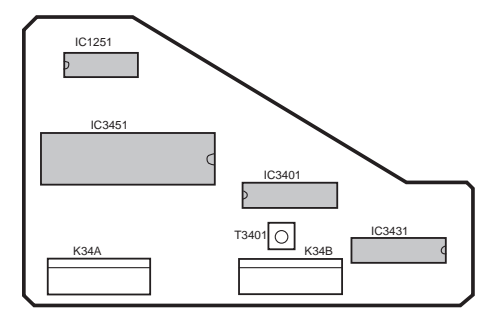
SIF Board /Pannello SIF Component Location/Lato del Componente



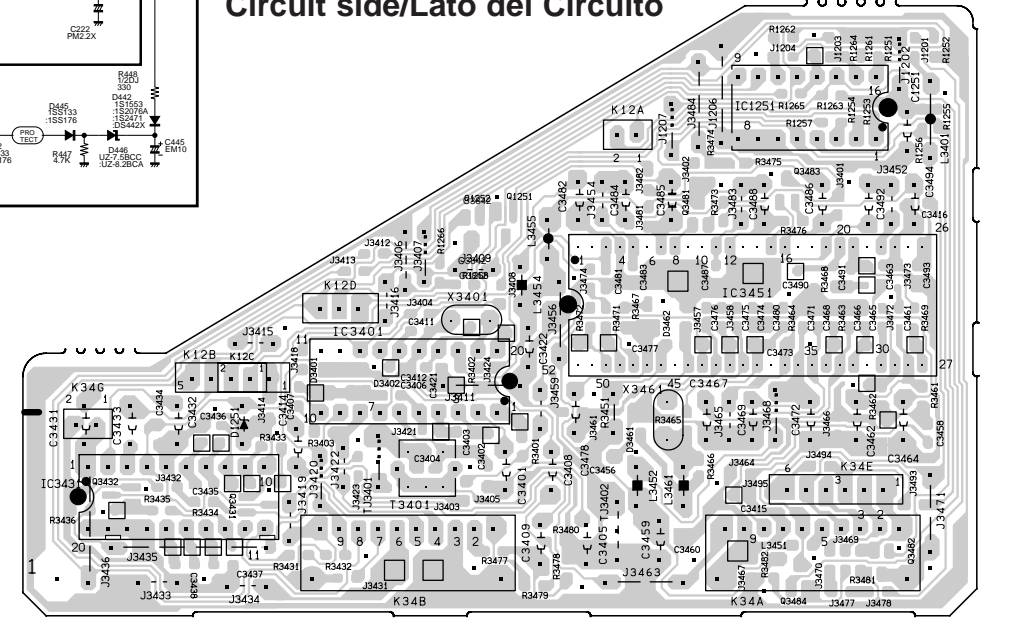
SIF Board /Pannello SIF Circuit side/Lato del Circuito



Audio Board /Pannello Audio Component Location/Lato del Componente



Circuit side/Lato del Circuito



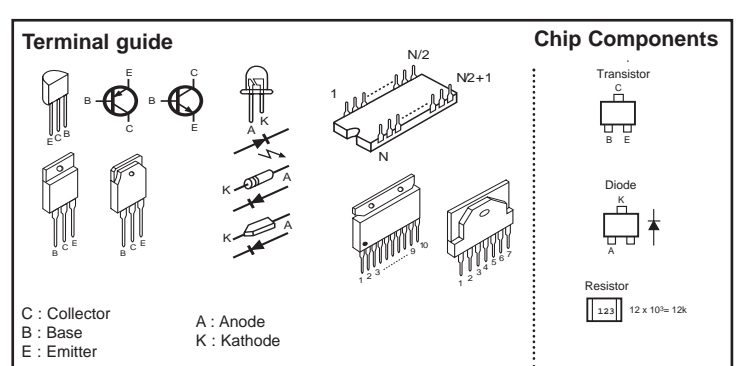
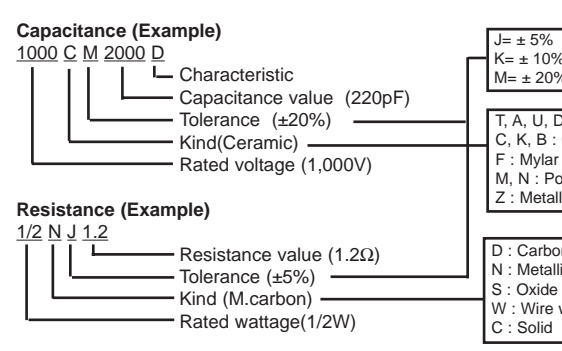
8. This circuit diagram covers a basic or representative chassis only. There may be some components or partial circuit differences between the actual chassis and the circuit diagram.

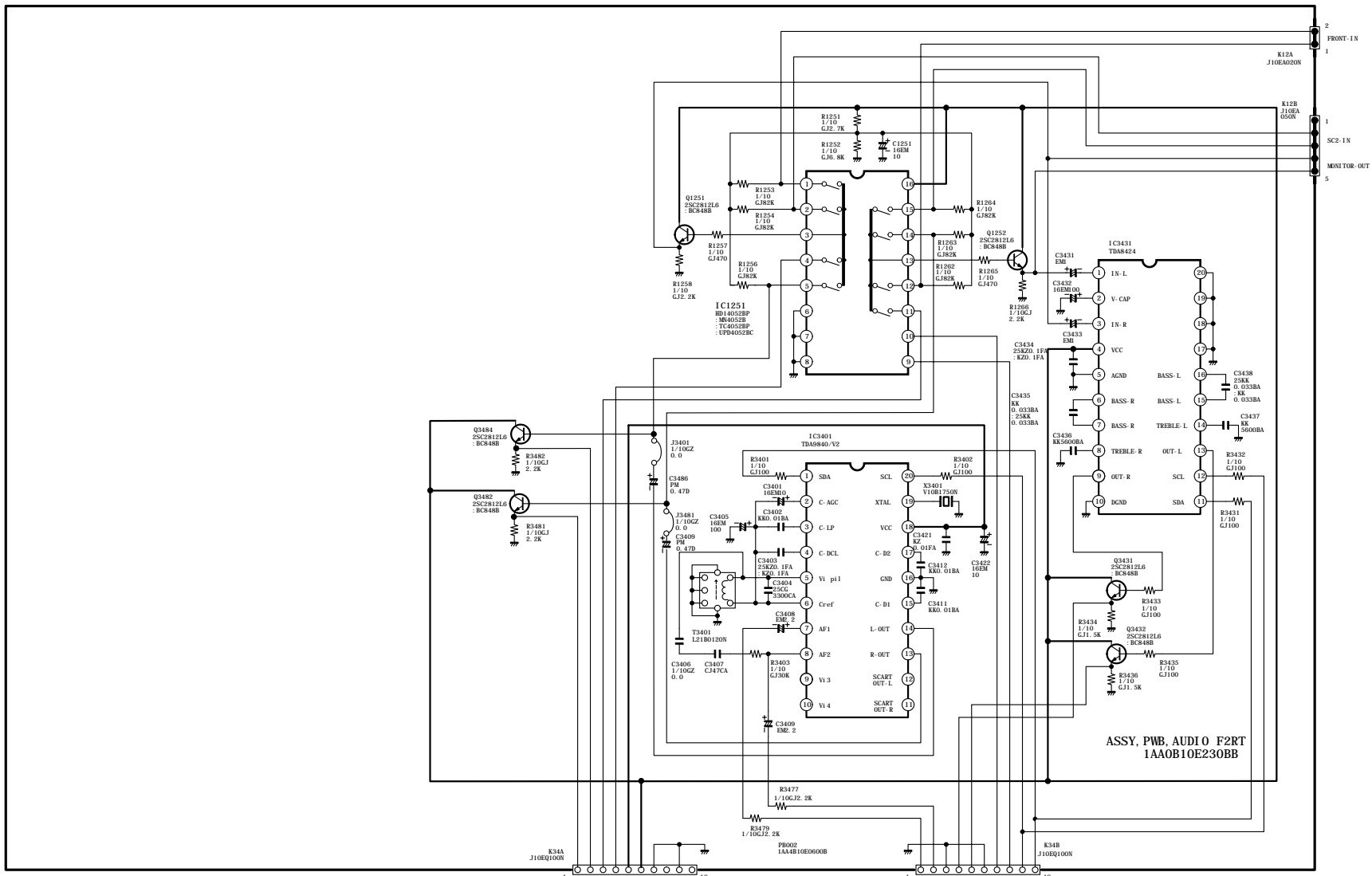
9. Diode 1S1555 may be replaced with 1S2473, 1S2076 or DS472 unless otherwise noted.

Transistor 2SC536(Q,R,S), 2SC1740(Q,R,S), 2SC945A(Q,R,P) or 2SC1815(G,O,Y) unless otherwise noted.

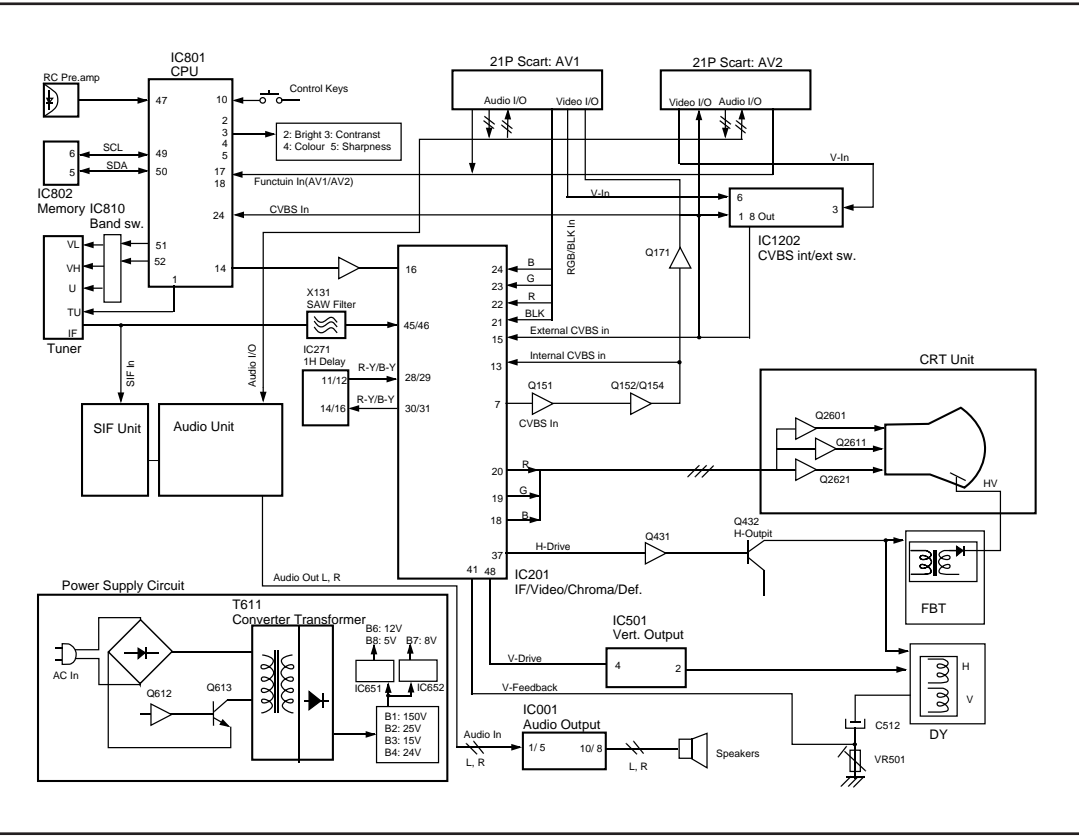
Transistor 2SA608(E,F) may be replaced with 2SA933(Q,R), 2SA564(QA,RA), or 2SA1015(O,Y) unless otherwise noted.

Expression of capacitance and resistance in circuit diagram.

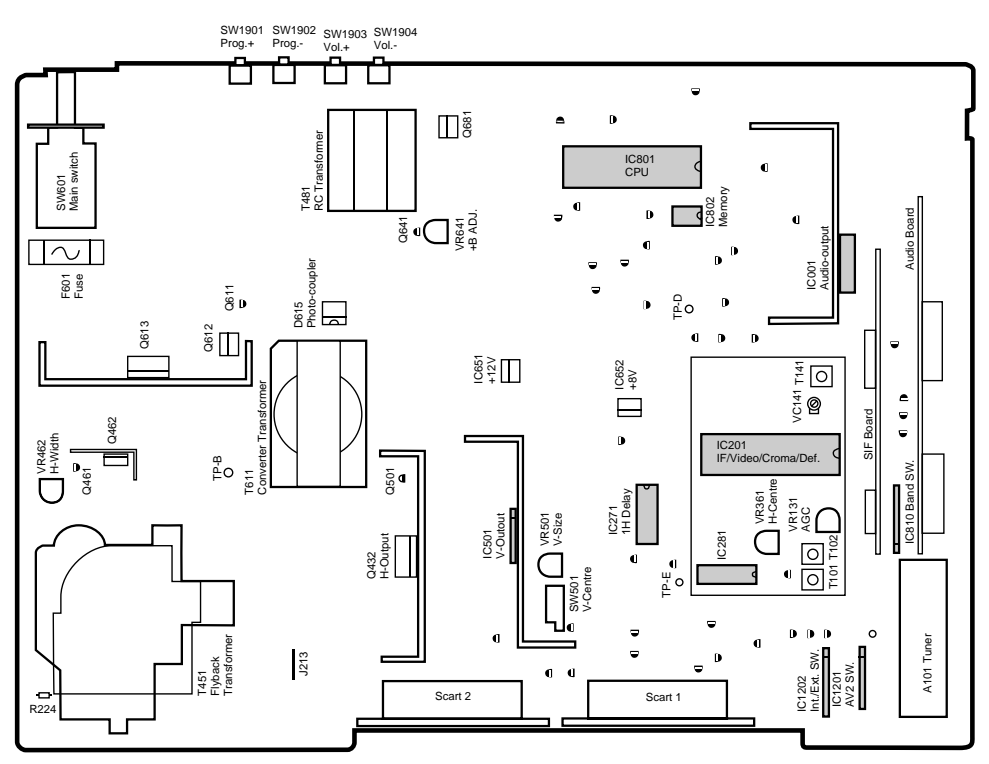




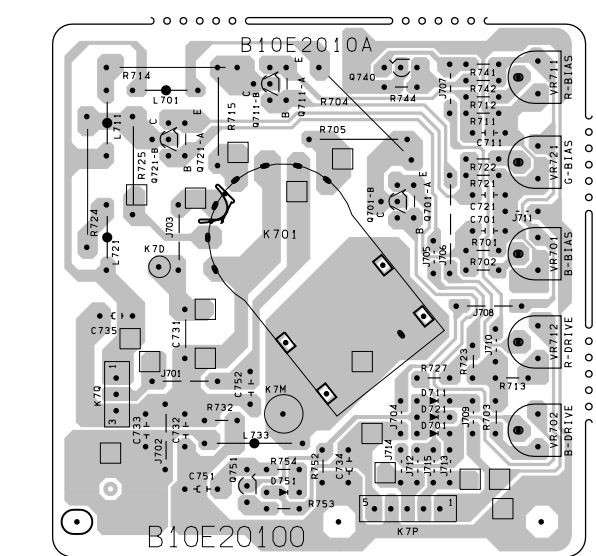
GENERAL BLOCK DIAGRAM FOR EB4 CHASSIS



Main Board /Pannello Principal Component Location/Lato del Componente



CRT Board /Pannello Cinescopio Circuit side/Lato del Circuito



REGOLAZIONI DI SERVIZIO TECNICO

- REGOLAZIONE DELL'ALIMENTATORE B1**
- Regolare VR641 in modo che sia centro meccanico, prima di premere l'interruttore principale.
 - Sintonizzare il ricevitore sull'oscillogramma circolare PAL.
 - Regolare i comandi di luminosità e contrasto sui livelli normali.
 - Collegare il misuratore V digitale su "TP-B".
 - Servendosi di VR641, regolare il voltaggio su 130 ± 0.5 V (per 21 pollici).
 - Servendosi di VR641, regolare il voltaggio su 150 ± 0.5 V (per 25 pollici).
- REGOLAZIONE AFT**
- Sintonizzare il ricevitore sulla stazione più chiara.
 - Servendosi di T141, regolare AFT per ottenere l'immagine migliore.
- REGOLAZIONE AGC**
- NOTA: Non tentare questa regolazione con un segnale debole.*
- Sintonizzare il ricevitore sulla stazione più chiara.
 - 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]**
- Sintonizzare il ricevitore sull'oscillogramma PAL.
 - Regolare il comando della luminosità su centro display e quello del contrasto su normale.
 - Regolare VR2601 e VR2611 in modo che sia centro meccanico.
 - Ruotare fino in fondo, in senso antiorario VR602, VR612 o VR622.
 - Quando si tiene premuto il pulsante "Funzione" (sul telecomando) e contemporaneamente si preme il pulsante P.A. (sul televisore) appariranno le seguenti indicazioni sullo schermo.
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 |

ALLINEAMENTO DI CIRCUITO

- Per regolar il livelli, premere il tasto livello.
- Regolare VR di schermo per un solo colore in modo che sia ben visibile.
- [REGOLAZIONE VR DEL BIAS (POLARIZZAZIONE)]**
- Servendosi di VR602, VR612 o VR622, regolare la linea in modo che sia bianca.
- Per tornare al modo di funzionamento TV, premere il tasto Richiamo.
- [REGOLAZIONE VR DEL DRIVE (ECCITAZIONE)]**
- Servendosi di VR601 e VR611, regolare il bilanciamento del bianco.
- REGOLAZIONE DI ALTO VOLTAGGIO E DI AMPIEZZA**
- [REGOLAZIONE DI ALTO VOLTAGGIO]**
- Sintonizzare il ricevitore sull'oscillogramma circolare PAL.
- Regolare i comandi di luminosità e contrasto sui livelli massimi.
- Collegare il misuratore V digitale su entrambi i terminali di R224 (lato sinistro) (+), e il misuratore di alto voltaggio sull'anello CRT.
- Confermare che l'alto voltaggio sia 25.0 ± 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).
- Confermare che l'alto voltaggio sia 26.0 ± 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]**
- Se l'ampiezza H è troppo larga o troppo stretta, collegare o scollegare un filo in piombo J213 (per 21 pollici). Regolare VR462 per ottenere l'ampiezza H appropriata (per 25/28 pollici).
- Riconfermare l'alto voltaggio.
- REGOLAZIONE DI CENTRO-H**
- Sintonizzare il ricevitore sull'oscillogramma circolare.
- Regolare il centro-H servendosi di VR361.
- REGOLAZIONE DI CENTRO-V**
- Sintonizzare il ricevitore sull'oscillogramma circolare.
- Regolare il centro-V servendosi di VR501.
- REGOLAZIONE DELLA DIMENSIONE-V**
- Sintonizzare il ricevitore sull'oscillogramma circolare.
- 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	Servendosi di T141, regolare "P" in modo che sia di ampiezza massima.	
Sonda di ingresso Marker frequency Sweep ATT 0dB=176mVrms/75	Servendosi di IC201, IC201-pin45 (Side b) IC201-pin7	

Allineamento SIF

IMPOSTAZIONE	Regolazione	Forma d'onda SIF
DC 12V Tensione AGC Sonda di uscita	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	IC3801-pin5 Sistema B/G 27kHz Stereo	Servendosi di T3401, regolare "P" in modo che sia di ampiezza massima.