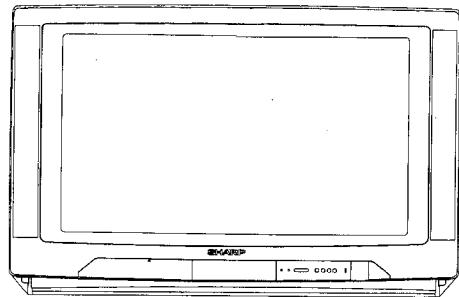


SHARP

SERVICE MANUAL

SEMSX6FW54H

DA-100 (50Hz) - CHASSIS



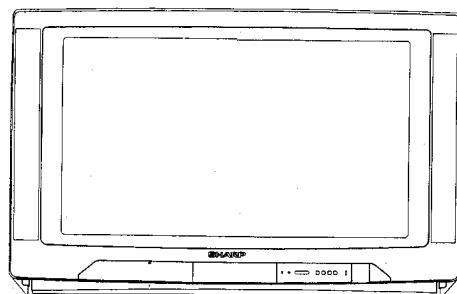
66FW54H

PAL SYSTEM COLOUR TELEVISION



DOLBY SURROUND

P R O · L O G I C



76FW54H

66FW-54H MODELS 76FW-54H

In the interests of user safety (required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used

CONTENTS

ELECTRICAL SPECIFICATION	2	PRINTED WIRING BOARDS	7
IMPORTANT SERVICE NOTES	3	SCHEMATIC DIAGRAM AND WAVE FORM ...	15
SERVICE ADJUSTMENTS	4	PARTS LIST	22

SHARP CORPORATION

ELECTRICAL SPECIFICATIONS

- Power Input 220-240 Volts AC 50 Hz
- Power Consumption
 - Normal Operating 166 W
 - Stand-by Operating 1W max.
- Audio Power

Output Rating

Front L (Internal)	10 W (M.P.O)
Front R (Internal)	10W (MPO)
Front L (External)	10W (MPO)
Front R (External)	10W (MPO)
Rear.....	7+7W(MPO)
Subwoofer	20W (MPO)
Surround Back	10W (MPO)
Center Speaker	10W (MPO)

Speaker

Front L	(Internal) 8 Ω 10W
Front R (Internal) 8 Ω 10W	
Front L	(External) 8 Ω
Front R	(External) 8 Ω
Rear	(External) 16Ω
Rear	(External) 16 Ω
Subwoofer	(External) 4 Ω

• White Level

Set brightness control to get total picture tube cathode current of 600 microampere under no signal condition.

Maximum necessary correction of each picture tube cathode current to get 8550 degrees K + 1MPCD screen temperature should not exceed 15% of its original value.

X = 0.290 Y = 0.284

- Convergence Self Converging System
- Focus Bi-Potential electrostatic
- Sweep Magnetic

• Intermediate Frequencies

Picture IF Frequency	38.9 MHz
Sound Carrier Trap	33.4 MHz
Adjacent Sound Carrier Trap	40.4 MHz
Adjacent Picture Carrier Trap	31.9 MHz

- Aerial Input Impedance 75 Unbalanced
- Tuning Ranges 48.25 MHz to 855.25 MHz
CATV Special Channels

Specifications are subject to change without prior notice.

WARNING

The chassis in this receiver is partially hot. Use an isolation transformer between the line cord plug and power receptacle, when servicing this chassis.

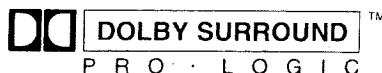
To prevent electric shock, do not remove cover. No user-serviceable parts inside. Refer servicing to qualified service personnel.

Special note

This model contains a DOLBY PRO LOGIC SURROUND DECODER.

Manufactured under license from Dolby Laboratories Licensing Corporation.

DOLBY, the double-D  symbol and "PRO LOGIC" are trademarks of Dolby Laboratories Licensing Corporation.



IMPORTANT SERVICE NOTES

Maintenance and repair of this receiver should be carried out by qualified service personnel only.

SERVICING OF HIGH VOLTAGE SYSTEM AND PICTURE TUBE

When servicing the high voltage system, remove static charge from it by connecting a 10 kohm resistor in series with a insulated wire (such a test probe) between picture tube ground tad an high voltage lead (AC line cord should be disconnected from AC outlet).

1. Picture tube in this receiver employs integral implosion protection.
2. Replace with tube of the same type number for continued safety.
3. Do not lift picture tube by the neck.
4. Handle the picture tube only when wearing shatterproof goggles and after discharging the high voltage completely.

X-RAY

This receiver is designed so that any X-Ray radiation is kept to an absolute minimum. Since certain malfunctions or servicing may produce potentially hazardous radiation with prolonged exposure at close range, the following precautions should be observed:

1. When repaiting the circuit, be sure not to increase the high voltage to more than 32.0 kV (at beam 1300 μ A) for the set.
2. To keep the set in a normal operation, be sure to make it function on 30(76FW54H), 31(66FW54H) kV \pm 1.5 kV (at beam 1300 μ A) in the case of the set. The set has been factory — adjusted to the above mentioned high voltage.
If there is a possibility that the high voltage fluctuates as result of the repairs, never forget to check for such high voltage after the work.
3. Do not substitute a picture tube with unauthorized types and/or brands which may cause excess X-Ray radiation.

BEFORE RETURNING THE RECEIVER

In addition to the chekcs necessary as a result of a repair having been carried out, the following additional safety checks should also be made before returning the units to the user:

1. Inspect all lead dress to make certain that leads are not pinched or that hardware is not logged between the chassis and other metal parts in the receiver.
2. Inspect all protective devices such as non-metallic control knobs, insulating fishpapers, cabinet backs, adjustment and compartment covers or shields, insulation resistor-capacity networks, mechanical insulators, etc.

SERVICE ADJUSTMENTS

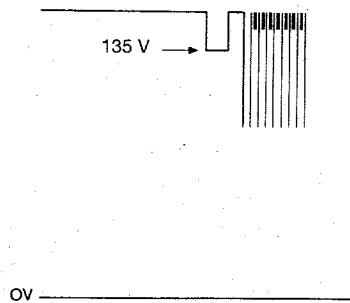
All the adjustments required for this chassis will be done in Service Mode, except G2 and Focus.

• G2 ADJUSTMENT

1. Receive cross hatch pattern signal
2. Set contrast to 80/100 and brightness to 40/100.
3. Connect the oscilloscope to the red cathode and adjust G2 to read 135V on the sensor pulse as in below drawing:

NOTE:

Oscilloscope should be adjustated for vertical.
TV field trigger and synchronized with video signal.



• SERVICE MODE FUNCTION

This mode function is provided to assist with the settings of those adjustment that may vary from one Picture Tube to another, or between models.

In order to use the Service Mode

1. Connect Test Pattern signal to antenna terminal.
2. Press main switch to "OFF".
3. Press volume-down and channel-up buttons and main switch to "ON" simultaneously.
4. Service mode is now entered.

The required adjustments can then be made from the Remote Control Unit.

The only buttons required are the following:

Up/Down-channel for movement in adjustment options menu; Up/Down-volume are used to carry out and adjustment in said menu; ON/OFF is used to memorize a new adjustment.

Adjustment menu is as follows:

- SERVICE SOFTWARE AND HEXADECIMAL COUNTER DISPLAY SW ON XXXX SW OFF XXXX HOURS ON XXXX
- HORIZONTAL SHIFT
- EAST WEST WIDTH
- PIN PHASE
- PIN AMP
- UPPER CORNER CORRECTION
- LOWER CORNER CORRECTION
- VERTICAL LINEARITY
- VERTICAL AMPLITUDE
- S CORRECTION
- VERTICAL SHIFT
- RED GAIN
- GREEN GAIN
- BLUE GAIN
- GREEN GAIN
- GREEN CUT OFF
- BLUE CUT OFF
- ALTER NVM PAGE / ALTER NVM POSITION /
- ALTER VNM VALUE
- TELETEXT MIX MODE CONTRAST
- TELETEXT CONTRAST
- OSD CONTRAST
- DVCO ADJUSTMENT (Only PAL)
- DVCO ADJUSTMENT (Only NTSC)
- AGC ADJUSTMENT
- AFT ADJUSTMENT
- OPC VALUE (Not Available in this model)
- AUTOINSTALLATION ON/OFF

To exit service mode, press main switch to OFF

Adjustment Note:

All the adjustments for Geometries are bases on internal pattern (fig. 1)

The procedure for making adjustments is as follows:

Horizontal

- Adjust HORIZONTAL SHIFT
- Adjust E-W WIDTH
- Adjust PIN PHASE
- Adjust PIN AMPLITUDE
- Adjust UPPER CORNER CORRECTION
- Adjust LOWER CORNER CORRECTION

Vertical

- Adjust VERTICAL AMPLITUDE
- Adjust S-CORRECTION
- Adjust VERTICAL SHIFT
- Adjust VERTICAL LINEARITY

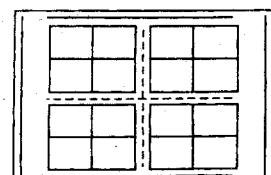


Fig. 1

1 - HORIZONTAL SHIFT

- a) Internal pattern signal will be displayed.
- b) When volume-up button is pressed, picture moves to the left.
- c) When volume-down is pressed, picture moves to the right.
- d) Adjust the horizontal location to obtain picture centering (fig. 2).

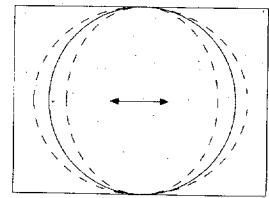


Fig. 2

2 - E-W WIDTH

- a) Internal pattern signal will be displayed.
- b) When volume-up button is pressed, horizontal scanning increases.
- c) When volume-down is pressed, horizontal scanning decreases.
- d) Adjust the horizontal amplitude to obtain 9% overscan (fig. 3).

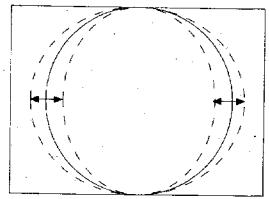


Fig. 3

3 - PIN PHASE

- a) Internal pattern signal will be displayed.
- b) When volume-up button is pressed, slide pincushion changes.
- c) When volume-down is pressed, slide pincushion changes.
- d) Adjust the PIN PHASE to obtain condition as in (fig. 4).

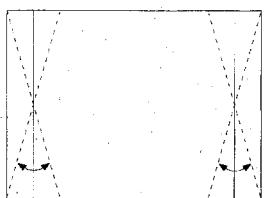


Fig. 4

4 - PIN AMPLITUDE

- a) Internal pattern signal will be displayed.
- b) When volume-up button is pressed, slide pincushion changes from pincushion to barrel shape.
- c) When volume-down is pressed, slide pincushion changes from barrel to pincushion shape.
- d) Adjust the PIN AMPLITUDE to obtain condition as in (fig. 5).

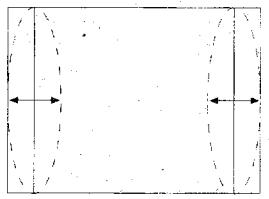


Fig. 5

5 - UPPER CORNER CORRECTION

- a) Internal pattern signal will be displayed.
- b) When volume-up button is pressed, slide pincushion changes from pincushion to barrel shape.
- c) When volume-down is pressed, slide pincushion changes from barrel to pincushion shape.
- d) Adjust the UPPER CORNER CORRECTION to obtain condition as in (fig. 6).

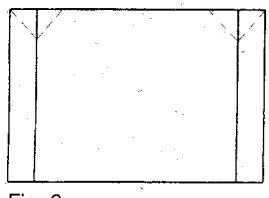


Fig. 6

6 - LOWER CORNER CORRECTION

- a) Internal pattern signal will be displayed.
- b) When volume-up button is pressed, slide pincushion changes from pincushion to barrel shape.
- c) When volume-down is pressed, slide pincushion changes from barrel to pincushion shape.
- d) Adjust the LOWER CORNER CORRECTION to obtain condition as in (fig. 7).

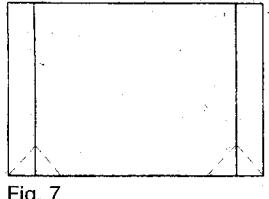


Fig. 7

7 - VERTICAL LINEARITY

- a) Internal pattern signal will be displayed.
- b) When volume-up button is pressed, upper picture scanning decreases and lower picture scanning increase.
- c) When volume-down is pressed, upper picture scanning increases and lower picture scanning decreases.
- d) Adjust the vertical symmetry to obtain symmetrical scanning between upper and lower picture (fig. 8).

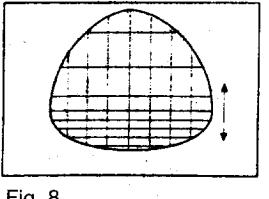


Fig. 8

8 - VERTICAL AMPLITUDE

- a) Internal pattern signal will be displayed.
- b) When volume-up button is pressed, vertical size of picture increases.
- c) When volume-down is pressed, vertical size of picture decreases.
- d) Adjust the vertical size to obtain overscan (fig. 9).

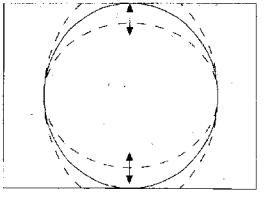


Fig. 9

9 - S-CORRECTION

- a) Internal pattern signal will be displayed.
- b) When volume-up button is pressed, upper and lower scanning decreases, and center scanning increases.
- c) When volume-down is pressed, upper and lower scanning increases, and center scanning decreases.
- d) Adjust the S-correction to obtain a balance between upper, lower and center (fig. 10).

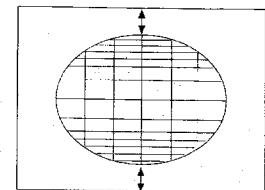


Fig. 10

10 - VERTICAL SHIFT

- a) Internal pattern signal will be displayed.
- b) When volume-up button is pressed, picture moves up.
- c) When volume-down is pressed, picture moves down.
- d) Adjust the horizontal location to obtain picture centering (fig. 11).

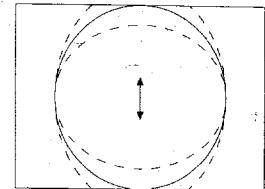


Fig. 11

COLOUR ADJUSTMENT

The following adjustments are only required when the Picture Tube is changed.

1. RED CUT OFF / GREEN CUT OFF / BLUE CUT OFF

- 1.1 Adjust G2
- 1.2 Tune a white card.
- 1.3 Adjust colour to minimum.
- 1.4 Position colourimeter in the center of screen.
- 1.5 Adjust brightness and contrast to obtain a luminance of ≈ 20 NITS.
- 1.6 Operate in Service Mode and select location RED CUT OFF / GREEN CUT OFF / BLUE CUT OFF, to obtain colour coordinates:
 $X=0.290 \pm 0.015$ $Y=0.284 \pm 0.015$

To increase press volume-up button and to decrease press volume down button

- | | |
|---------------|------------------------------|
| RED CUT OFF | alter "X" coordinate |
| GREEN CUT OFF | alter "Y" coordinate |
| BLUE CUT OFF | alter "X" and "Y" coordinate |
- 1.7 The changes introduced can be memorized by pressing button "O" on TV set

2. RED GAIN / GREEN GAIN / BLUE GAIN

- 2.1 Using brightness and contrast buttons, select a luminance of $f \approx 110$ NITS.
- 2.2 Operate again in Service Mode and select location RED GAIN / GREEN GAIN / BLUE GAIN, to obtain colour coordinates:
 $X = 0.290 \pm 0.015$ $Y = 0.284 \pm 0.015$

To increase press volume-up button and to decrease press volume-down button.

- | | |
|------------|------------------------------|
| RED GAIN | alter "X" coordinate |
| GREEN GAIN | alter "Y" coordinate |
| BLUE GAIN | alter "X" and "Y" coordinate |

- 2.3 The changes introduced can be memorized by pressing button "O" on TV set.
- 2.4 Exit Service Mode and check colour coordinates "X" and "Y" at 20 and 110 NITS. It may be necessary to repeat procedure 1 and 2 of COLOUR ADJUSTMENT.

ACCESS TO NVM

Press CH^ to move in the following sequence:

ALTER NVM PAG → ALTER NVM POS → ALTER NVM VAL
to alter presetting adjustments, press up/down-volume buttons on ALTER NVM VAL.

CAUTION: Do not change NVM VALUE to avoid risk of serious damages to TV set.

CONTRAST ADJUSTMENT

Up/down-volume buttons are used to adjust the contrast of the following items:

- TELETEXT MIX MODE CONTRAST
- TELETEXT CONTRAST
- OSD CONTRAST

DVCO ADJUSTMENT (PAL)

- a) Receive Philips pattern signal.
- b) When Stand-by button is pressed (Remote Control Unit), start automatically the adjustment.

DVCO ADJUSTMENT (NTSC)

Adjustment not required.

AUTO INSTALLATION OFF/ON

When ON is selected, the TV will perform the autoinstallation sequence as soon as service mode is removed.

PROTECTIONS CANCEL

- a) Connect Test Pattern signal to antenna terminal.
- b) Press main switch to OFF.
- c) Press volume-down and channel-up buttons and main switch to ON simultaneously.
- d) "Service software Vxx.xx" appears on screen.
- e) Press main switch to OFF.

AGC ADJUSTMENT

- a) Tune the TV into DM10 (pattern generator).
 - b) Adjust the signal strength to 57 dbμv.
 - c) Press the stand-by button on the Remote Control (red button).
- The TV will perform automatically the AGC Adjustment.

AFT ADJUSTMENT

- a) Tune the TV into CH69 (pattern generator).
 - b) Press the stand-by button on the Remote Control (red button).
- The TV will perform automatically the AGC Adjustment.

DESCRIPTION OF SCHEMATIC DIAGRAM

SAFETY NOTE:

1. DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACEING PARTS.
2. SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCKHAZARDS WHEN THE CHASSIS IS OPERATING.

IMPORTANT SAFETY NOTICE:

PARTS MARKED WITH “” () ARE IMPORTANT FOR MAINTAING THE SAFETY OF THE SET, BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

SEVICE 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.

NOTE:

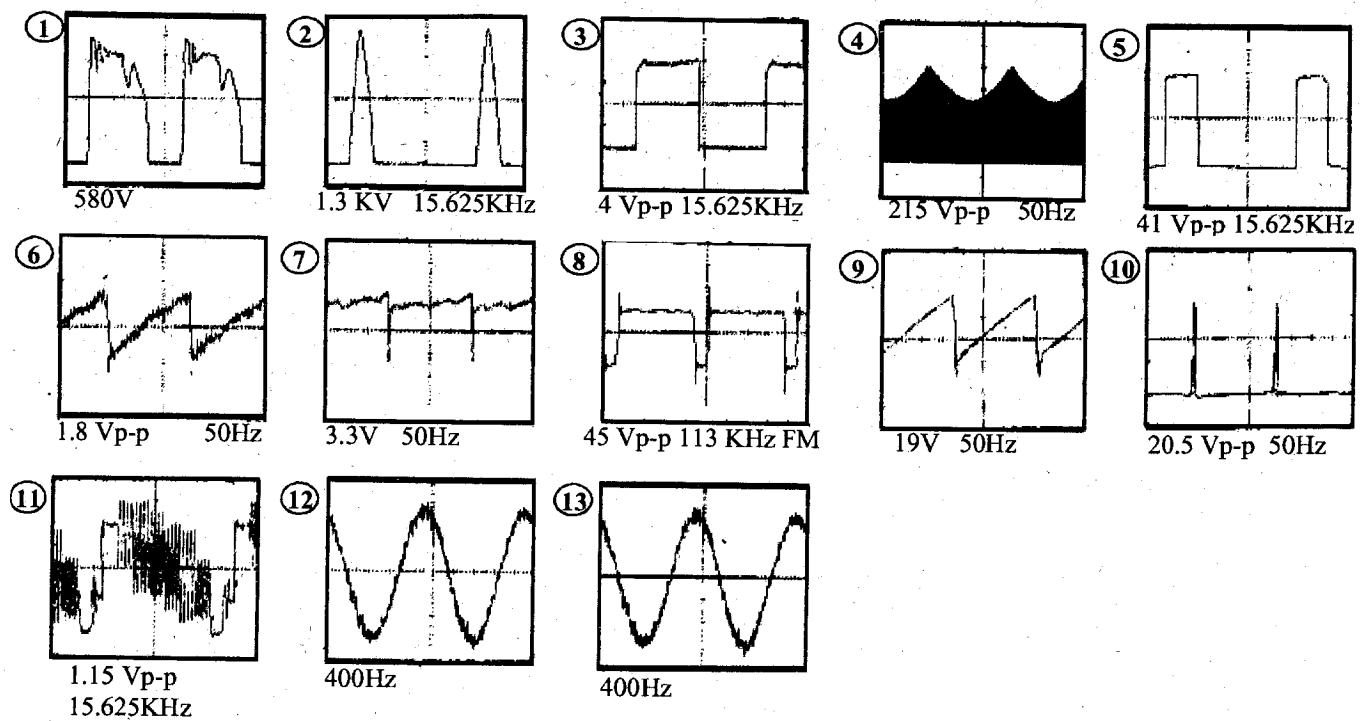
1. The unit of resistance “ohm” is omitted (K = 1000 ohms, M = Megaohm).
2. All resistors are 1/8 watt, unless otherwise noted.
3. All capacitors are μF , unless atherwise noted ($\text{P} = \mu\mu\text{F}$).
4. The capacitor with Part No. RC-FZ9XXXBMNJ is designed to withstand 63V

WAVEFORM MEASUREMET CONDITION

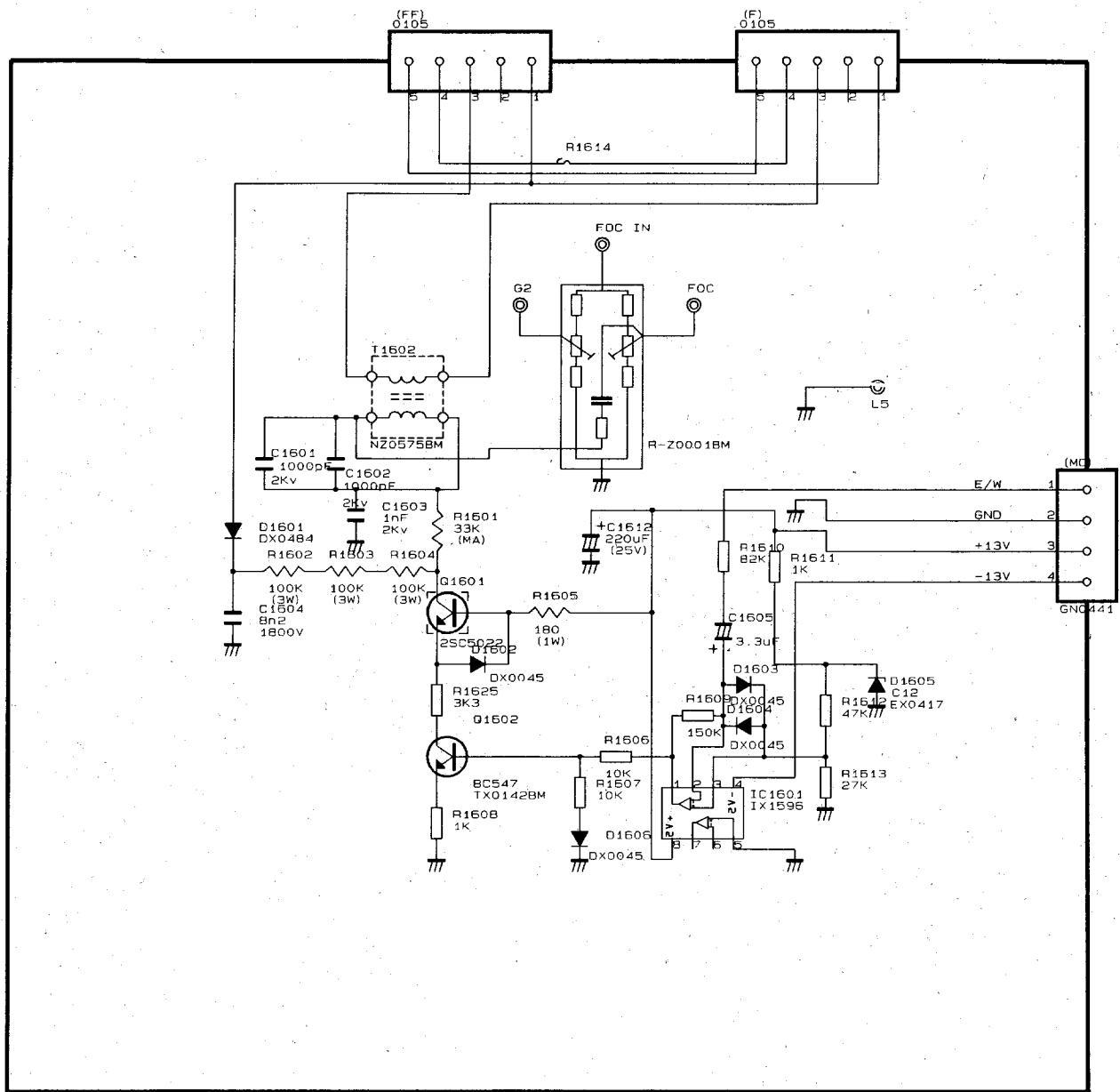
Colour bar generator signal of 70 dB from RF input.

CAUTION

This circuit diagram is original one, therefore there may be a slight difference from yours.

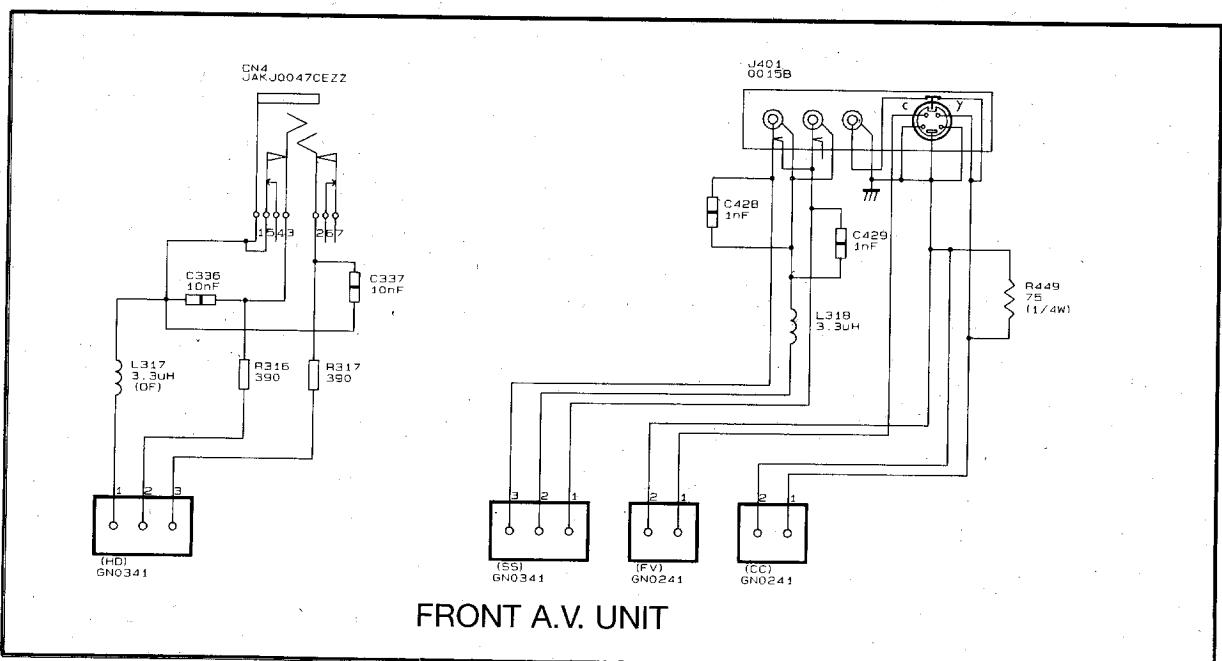
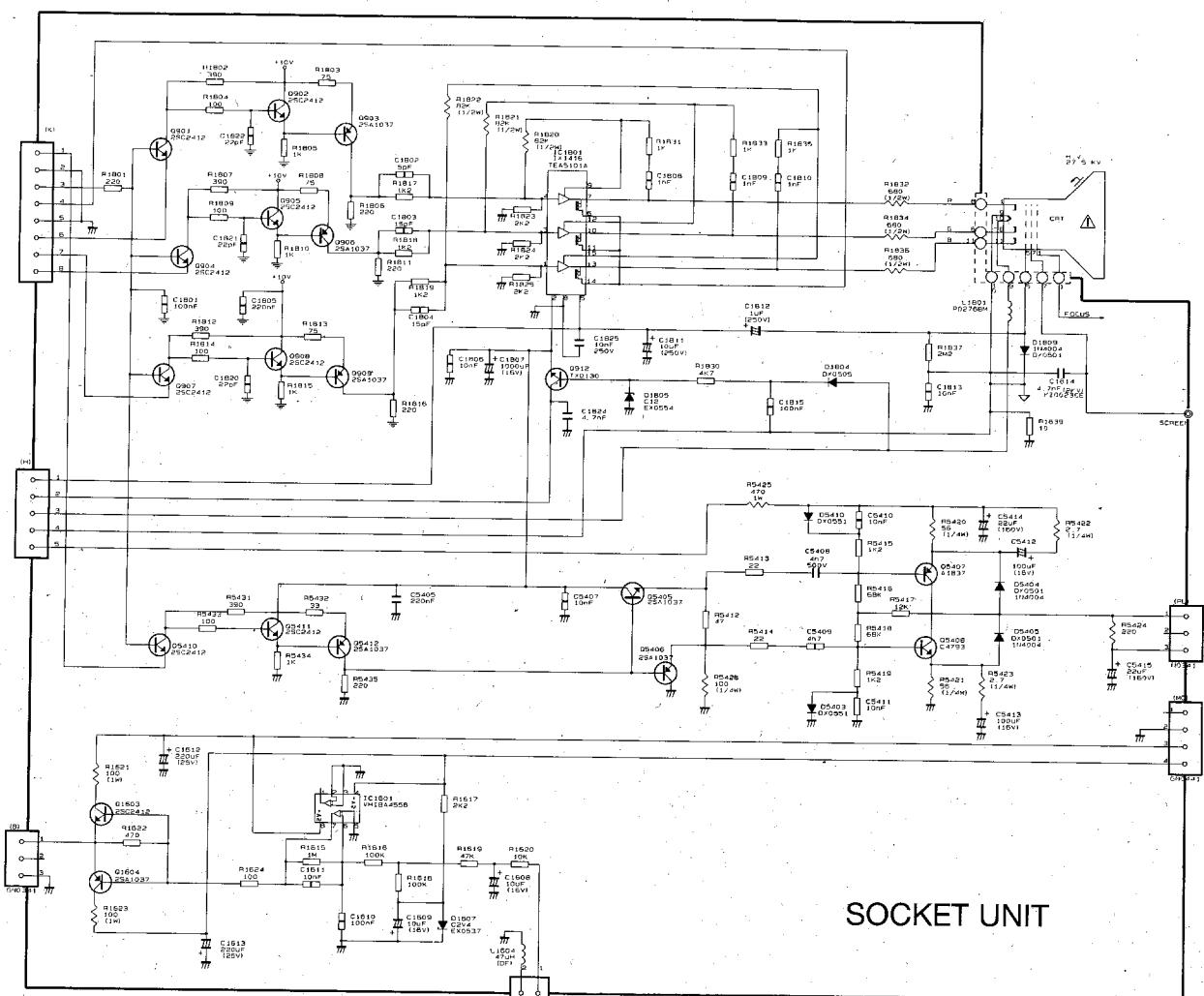


SCHEMATIC DIAGRAM

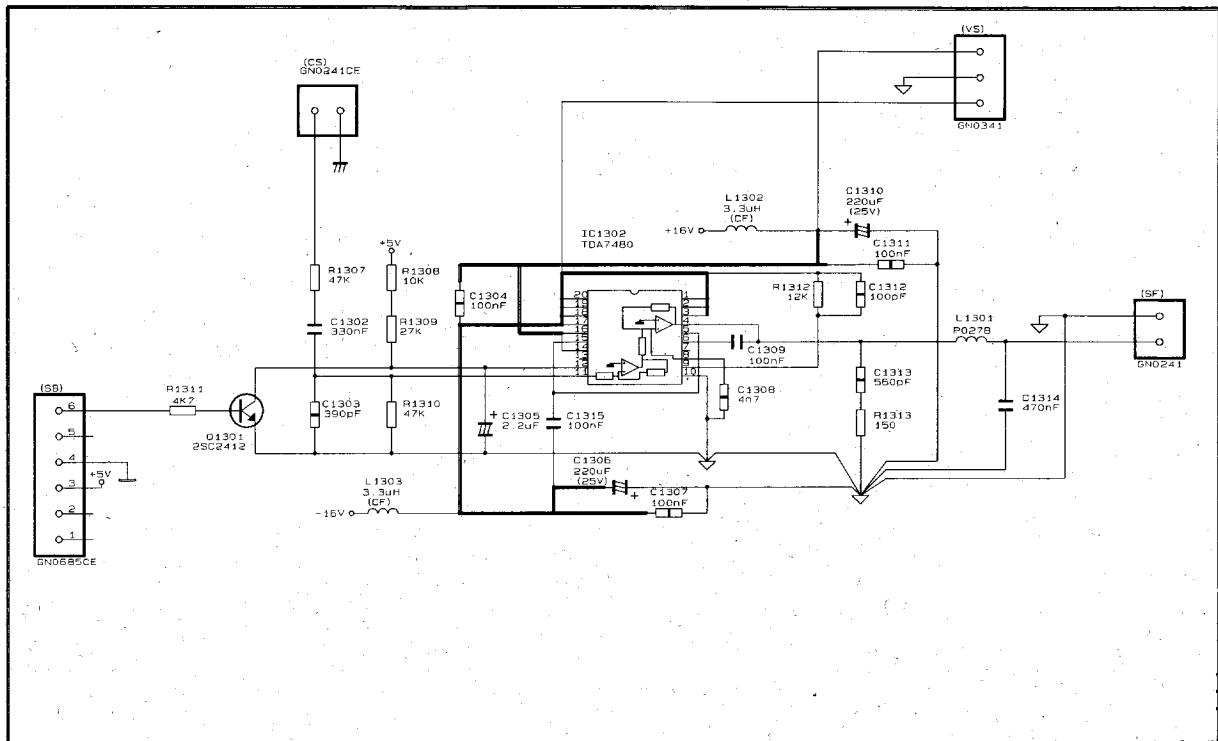


DEFLECTION UNIT (76FW54H)

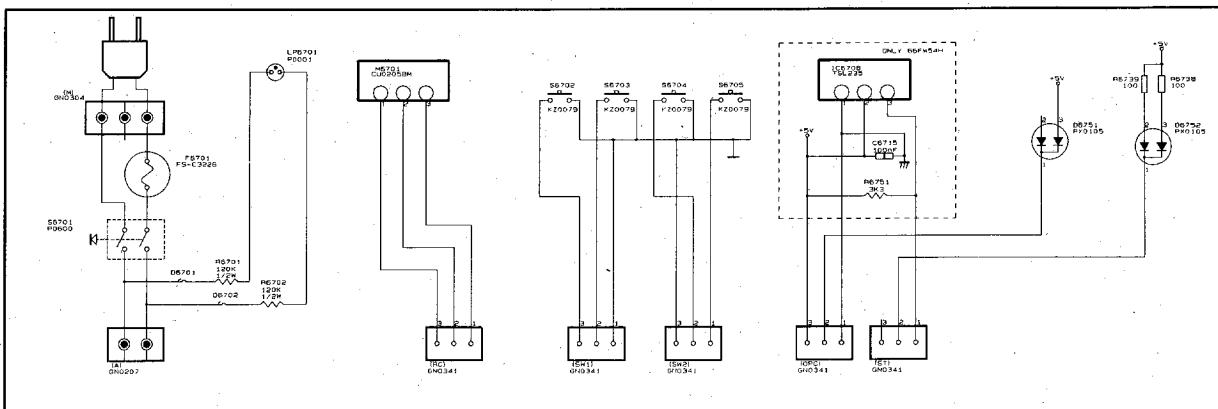
SCHEMATIC DIAGRAM



SCHEMATIC DIAGRAM

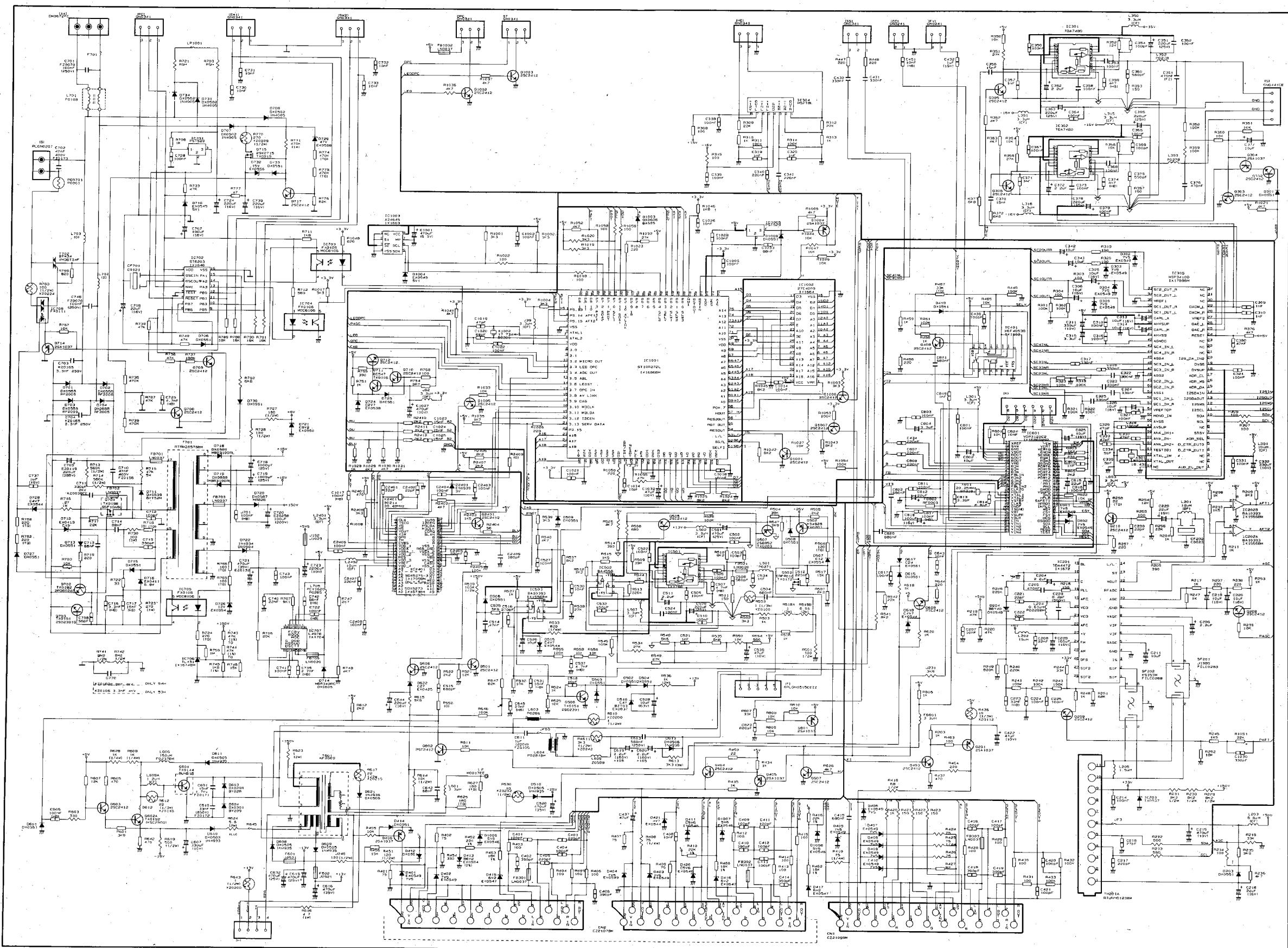


AUDIO AMP. UNIT

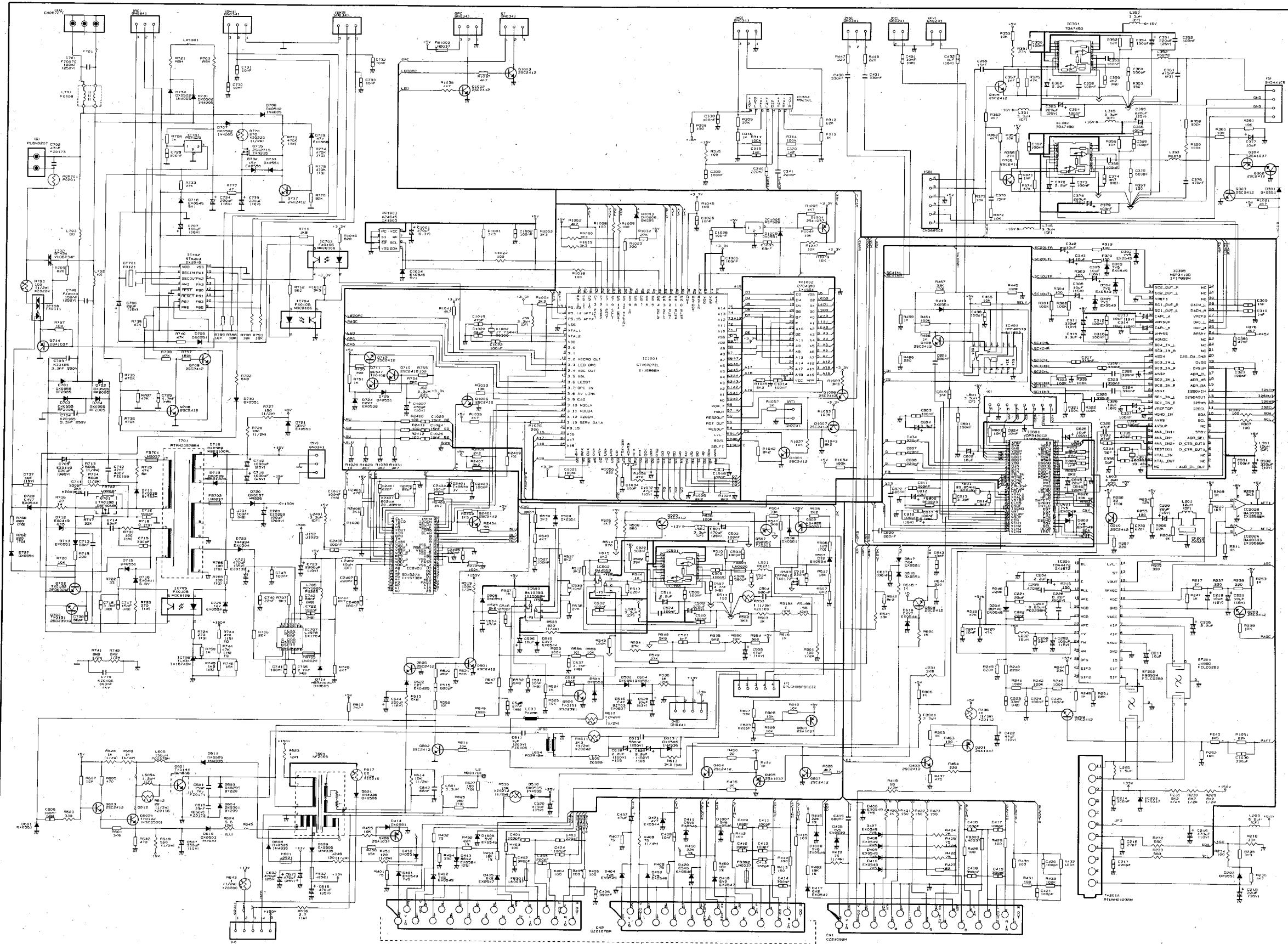


CONTROL UNIT

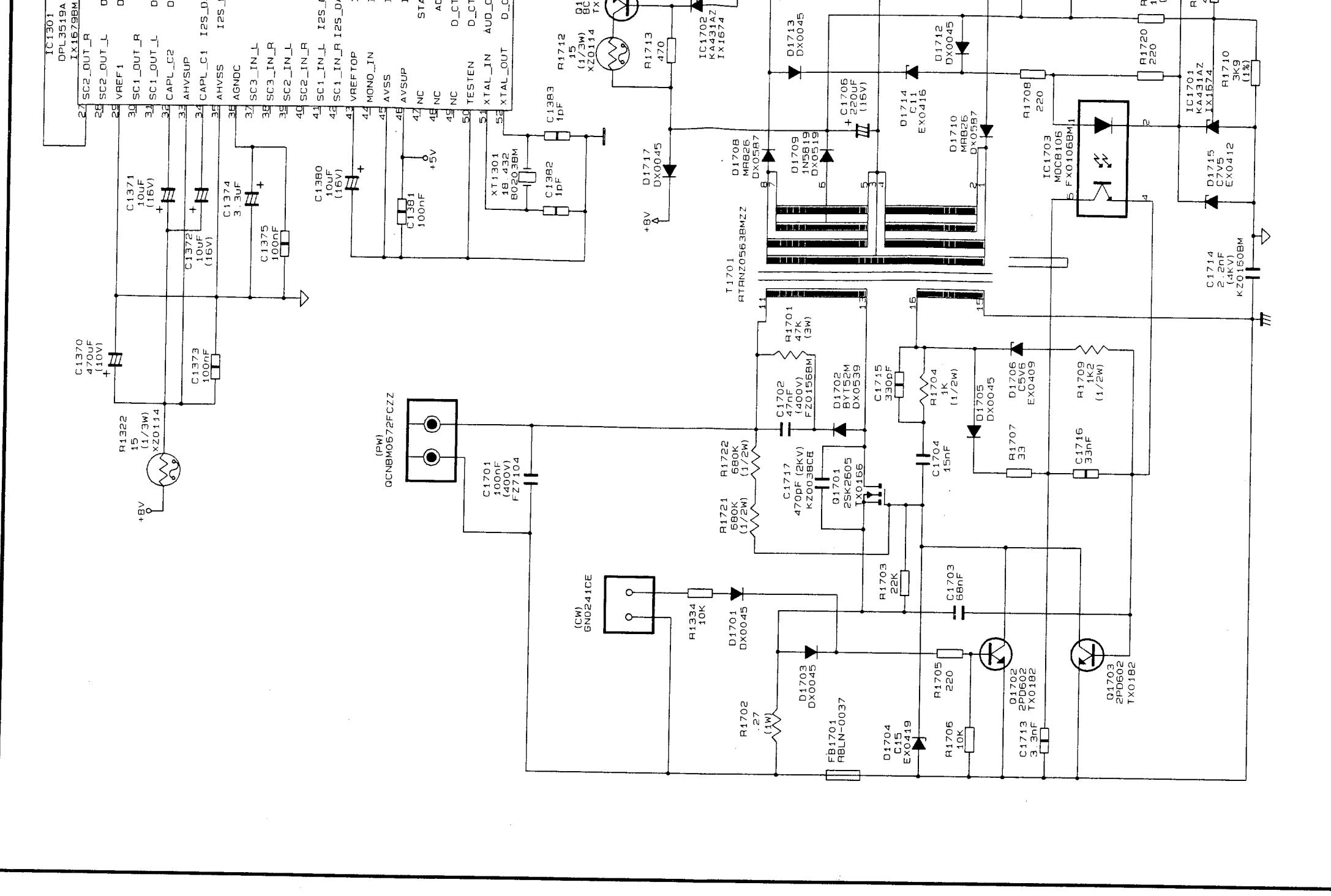
SCHEMATIC DIAGRAM MOTHER UNIT



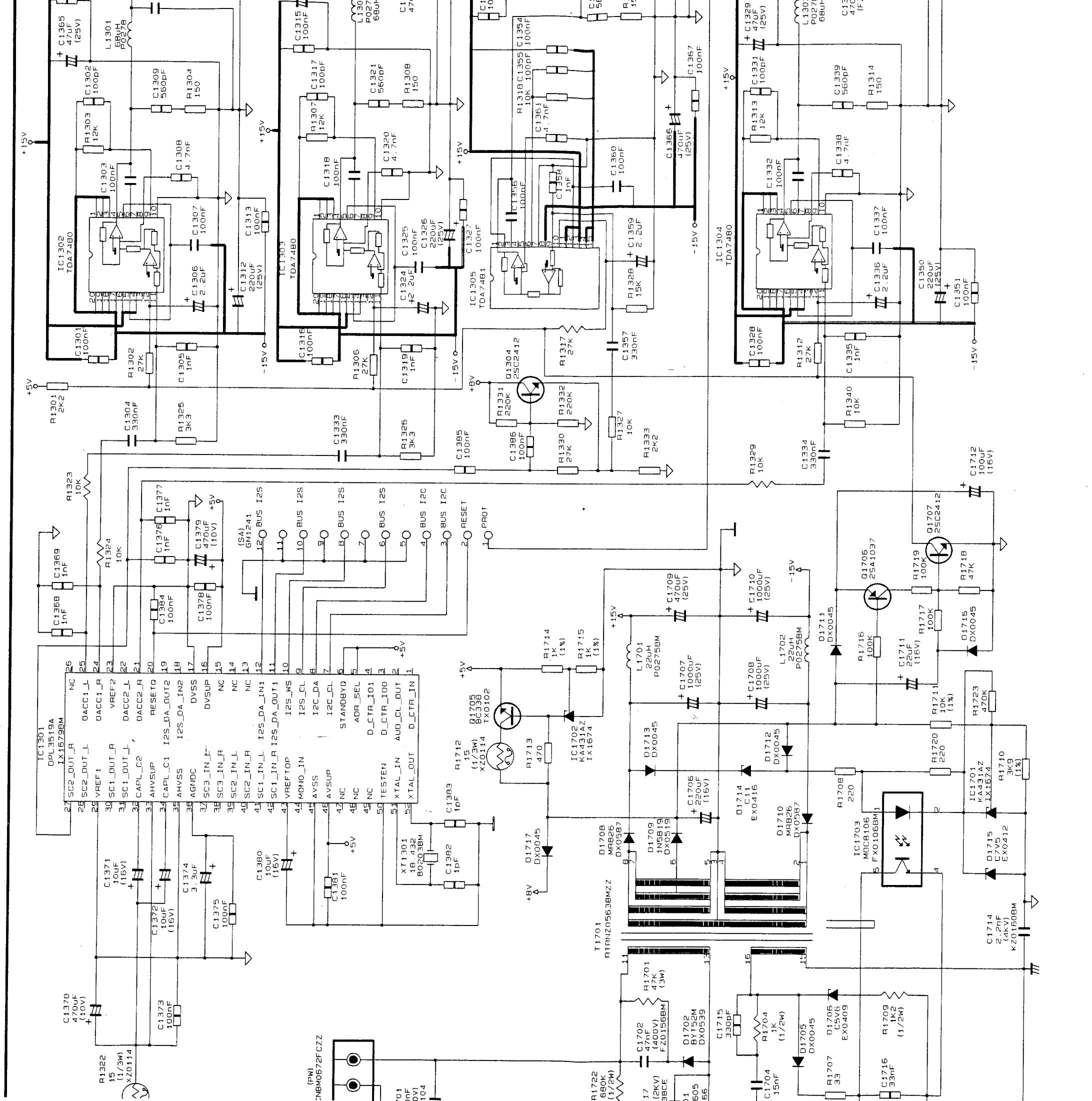
SCHEMATIC DIAGRAM DOLBY UNIT

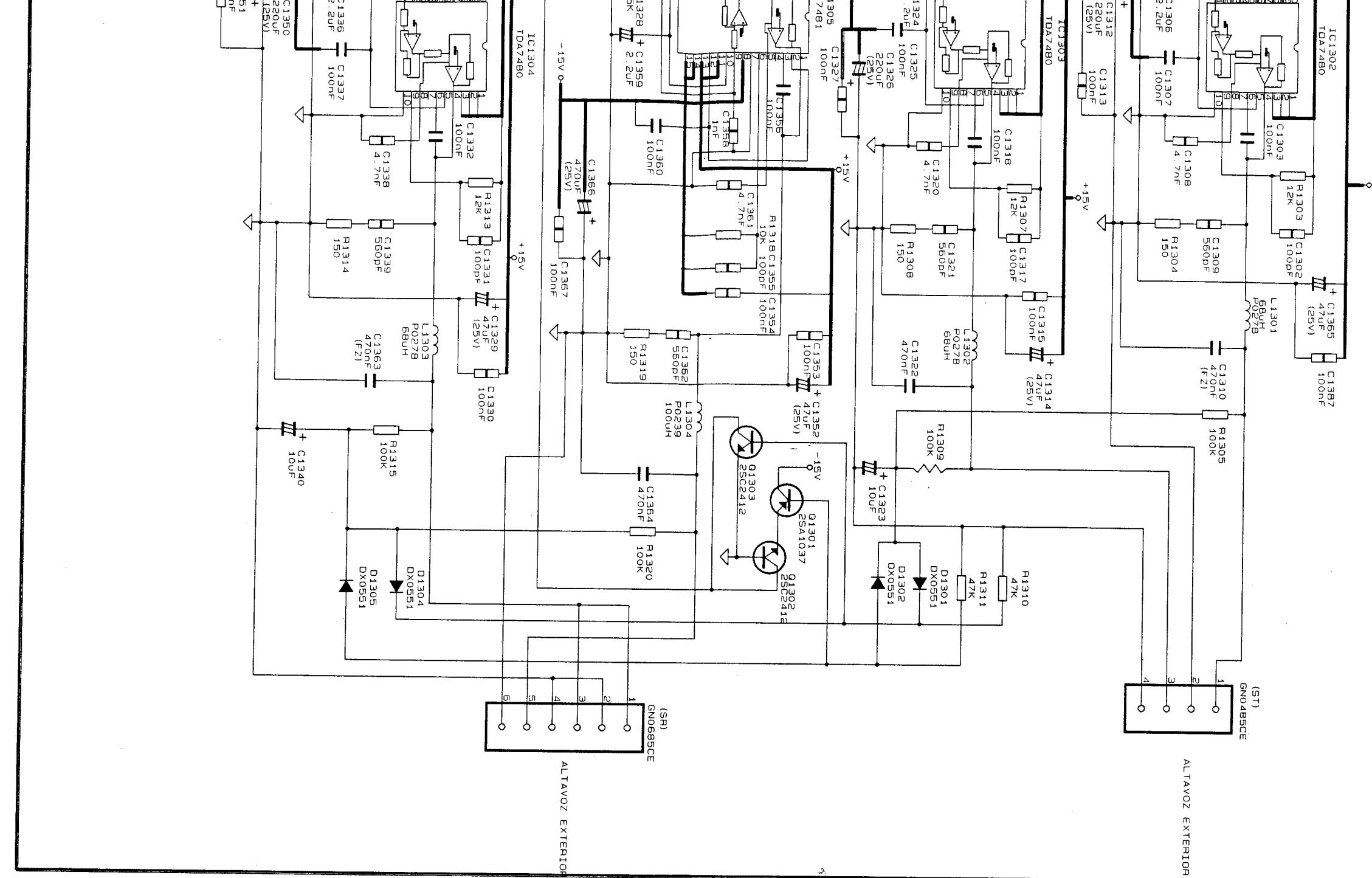


1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

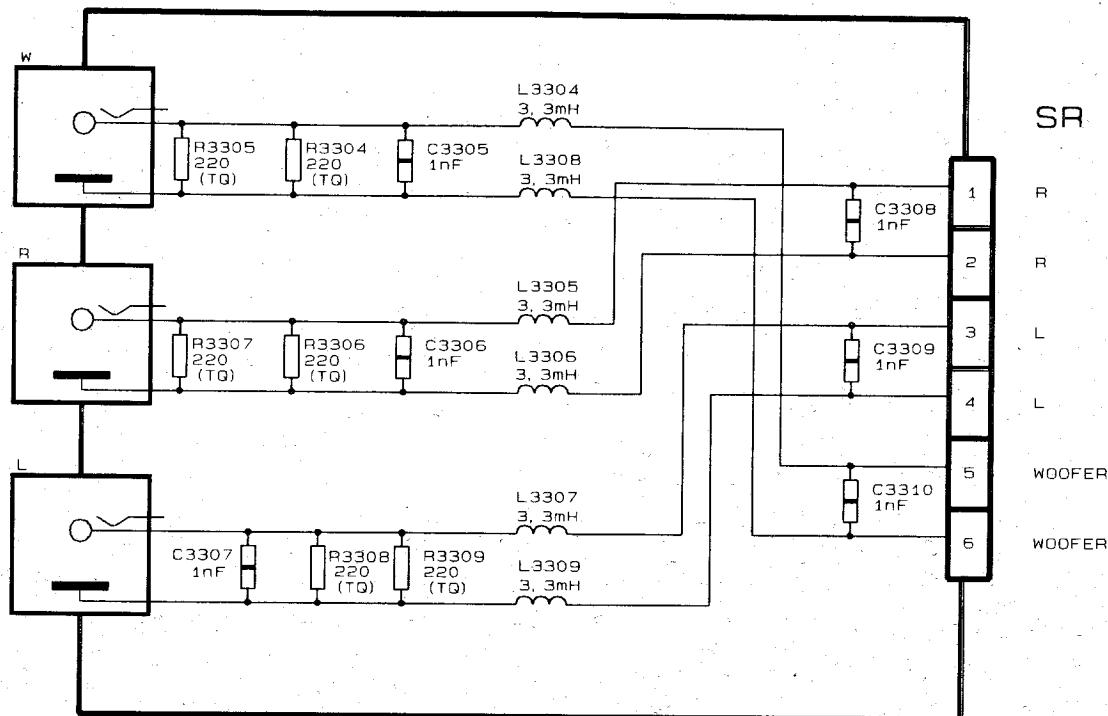


LIBRARY UNIT

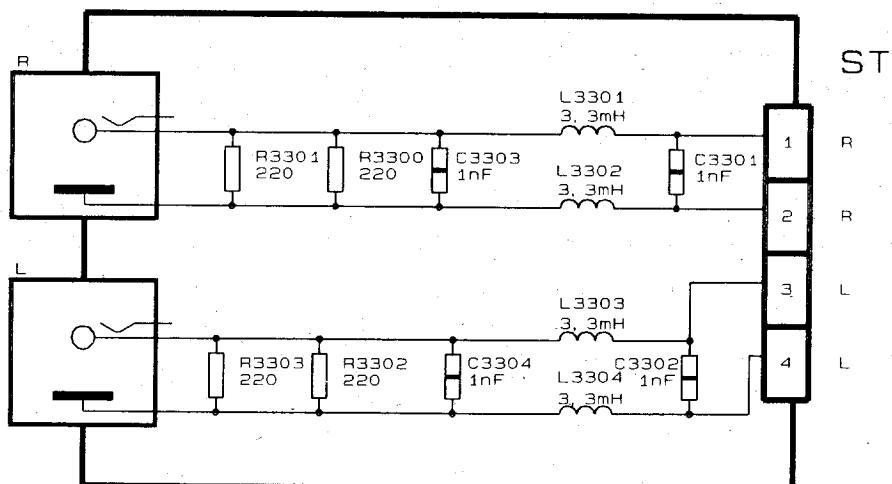




SCHEMATIC DIAGRAM



EXTERNAL SPEAKER X 3



EXTERNAL SPEAKER X 2

PARTS LIST**REPLACEMENT PARTS**

Replacement parts which have special safety characteristics are identified in this manual. Electrical components having such features are identified by u in the Replacement Parts list.

The use of a substitute replacement part which does not have the same safety characteristics as the factory recommended is not permitted. Replacement parts not shown in this service manual may create shock fire, or other hazards.

HOW TO ORDER REPLACEMENT PARTS

To have you order completed promptly and correctly please supply the following information.

1. MODEL NUMBER2. REF. NO.
3. PART NO. 4 DESCRIPTION
5. CODE 6. QUANTITY

★ MARK: SPARE PARTS DELIVERY SECTION

REF N°	PARTS	★	DESCRIPTION	CODE
PICTURE TUBE				
△	VB66QBD2910*N	S	C.R.T. 28" 66FW54H	CV
△	VB76QAG280W12	S	C.R.T. 32" 76FW54H	
△	RCILG0417BMZZ	S	DEGAUSSING COIL 28" 66FW54H	A X
△	RCILG0418BMZZ	S	DEGAUSSING COIL 32" 76FW54H	A Z
△	RCILG0422CEZZ	S	ROTATION COIL 28" 66FW54H	AP
△	RCILG0419BMZZ	S	ROTATION COIL 32" 76FW54H	AR
PRINTED WIRIN BOARDS				
(NOT REPLACEMENT ITEM)				
PWB-A	DUNTK7240BMV8	S	MOTHER UNIT 66FW54H	—
PWB-A	DUNTK7240BMW3	S	MOTHER UNIT 76FW54H	
PWB-B	DUNTK7273BMV1	S	SOCKET UNIT 66FW54H	
PWB-B	DUNTK7273BMV4	S	SOCKET UNIT 76FW54H	
PWB-C	DUNTK7243BMV1	S	DOLBY UNIT 66FW54H	
PWB-C	DUNTK7243BMV2	S	DOLBY UNIT 76FW54H	
PWB-D	DUNTK7266BMV1	S	CONTROL UNIT 66FW54H	
PWB-D	DUNTK7266BMV5	S	CONTRO UNIT 76FW54H	
PWB-E	DUNTK7267BMV1	S	A/V FRONT UNIT 66FW54H	
PWB-E	DUNTK7267BMV5	S	A/V FRONT UNIT 76FW54H	
PWB-F	DUNTK7285BMV4	S	AUDIO AMP. UNIT 66FW54H	
PWB-F	DUNTK7285BMV3	S	AUDIO AMP. UNIT 76FW54H	
PWB-G	DUNTK7268BMV0	S	EXT. SPEAKER (X2) 66FW54H	
PWB-G	DUNTK7268BMV1	S	EXT. SPEAKER (X2) 76FW54H	
PWB-H	DUNTK7229BMV2	S	EXT. SPEAKER (X3) 66FW54H	
PWB-H	DUNTK7229BMV3	S	EXT. SPEAKER (X3) 76FW54H	
PWB-I	DUNTK7271BMV4	S	DEFLECTION (ONLY 76FW54H)	
	DSETU7240BMV8	S	COMPLETE CHASSIS 66FW54H	
	DSETU7240BMW3	S	COMPLETE CHASSIS 76FW54H	
PWB-A MOTHER UNIT				
TUNER				
△ TH 0201	RTUNH0123BMZZ	S	TUNER CTT5020	BA
INTEGRATED CIRCUITS				
IC 0201	RH-IX1672BMZZ	S	TDA4472-MFL TEMIC	AP
IC 0202	RH-IX1556BMZZ	S	BA10393 SOP8	AD
IC 0203	RH-IX0037CEZZ	S	UPC574J 33V	AD
IC 0301	VHITDA7480/-1	S	TDA7480	AK
IC 0302	VHITDA7480/-1	S	TDA7480	AK
IC 0304	VHIM5218L/-1	S	M5218L	AF
IC 0305	RH-IX1636BMZZ	S	MSP3410D PSD1P64 ITT	BD
IC 0401	RH-IX1602BMZZ	S	HEF 4053	AE
IC 0501	VHITDA7480/-1	S	TDA7480	AK
IC 0502	VHIBA4558F/-1	S	BA4558F-E2 OP-AMP	
IC 0503	RH-IX1556BMZZ	S	BA10393 SOP8	AD
IC 0701	VHIPST529C2-1	S	PST529C2	AD
IC 0702	RH-IX1646BMZZ	S	ST6203B SGS-	AL
△ IC 0703	RH-FX0106BMZZ	S	M0C8106SR2V-M	AD
△ IC 0704	RH-FX0106BMZZ	S	M0C8106SR2V-M	AD
△ IC 0705	RH-FX0106BMZZ	S	M0C8106SR2V-M	AD
IC 0706	RH-IX1674BMZZ	S	KA431AZ	AD
IC 0707	RH-IX1704BMZZ	S	L4978	AK

REF N°	PARTS	★	DESCRIPTION	CODE
IC 0708	RH-FX0111BMZZ	S	OPTOCOUP. TLP165J TOSHIBA	AE
IC 0801	RH-IX1688BMN2	S	VDP 3120C2 MICRONAS	BH
IC 1001	RH-IX1686BMZZ	S	ST10R272L	AW
IC 1002	CH-IX1664CJH6	S	CON EPROM SOFT 66FW54H	AX
IC 1002	CH-IX1664CJH8	S	CON EPROM SOFT 76FW54H	
IC 1003	RH-IX1603BMZZ	S	NVM X24645S8 XICOR	AV
IC 1004	RH-IX1603BMZZ	S	NVM X24645S8 XICOR	AV
IC 1005	VHIPST529C2-1	S	PST529C2	AD
IC 1801	RH-IX1416BMZZ	S	TEA 5101A	AN
IC 2401	RH-IX1709BMZZ	S	SDA5275-3MTXT NIVEL2,5	BG
IC 2402	RH-IX1656BMZZ	S	RAM D KM44C1000DT-6T SAMS	AY

TRANSISTORS				
Q 0201	VS2SA1037KQ-1	S	BC807	AA
Q 0208	VS2SC2412KQ-1	S	2SC2412	AA
Q 0209	VS2SC2412KQ-1	S	2SC2412	AA
Q 0210	VS2SC2412KQ-1	S	2SC2412	AA
Q 0302	VS2SC2412KQ-1	S	2SC2412	AA
Q 0303	VS2SC2412KQ-1	S	2SC2412	AA
Q 0304	VS2SA1037KQ-1	S	BC807	AA
Q 0305	VS2SC2412KQ-1	S	2SC2412	AA
Q 0306	VS2SC2412KQ-1	S	2SC2412	AA
Q 0403	VS2SC2412KQ-1	S	2SC2412	AA
Q 0404	VS2SC2412KQ-1	S	2SC2412	AA
Q 0405	VS2SA1037KQ-1	S	BC807	AA
Q 0406	VS2SA1037KQ-1	S	BC807	AA
Q 0408	VS2SC2412KQ-1	S	2SC2412	AA
Q 0501	VS2SC2412KQ-1	S	2SC2412	AA
Q 0502	RH-TX0201BMZZ	S	KSA928A	AC
Q 0503	RH-TX0172BMZZ	J	IRFR010TM N	AE
Q 0505	VS2SC2412KQ-1	S	2SC2412	AA
Q 0506	RH-TX0151BMZZ	S	2SD2391Q	AD
Q 0507	RH-TX0203BMZZ	S	2SB852	AB
Q 0601	RH-TX0144BMZZ	S	BUH 515	AK
Q 0602	RH-TX0192BMZZ	S	KSC2500	AC
Q 0603	VS2SC2412KQ-1	S	2SC2412	AA
Q 0606	VS2SC2412KQ-1	S	2SC2412	AA
Q 0607	VS2SC2412KQ-1	S	2SC2412	AA
Q 0608	VS2SC2412KQ-1	S	2SC2412	AA
Q 0701	RH-TX0198BMZZ	S	S5F10N80A	AU
Q 0702	RH-TX0182BMZZ	S	2PD602AR	AB
Q 0703	RH-TX0151BMZZ	S	2SD2391Q	AD
Q 0708	VS2SC2412KQ-1	S	2SC2412	AA
Q 0709	VS2SC2412KQ-1	S	2SC2412	AA
Q 0710	VS2SC2412KQ-1	S	2SC2412	AA
Q 0711	RH-TX0106BMZZ	S	BC547	AB
Q 0712	VS2SC2412KQ-1	S	2SC2412	AA
Q 0714	VS2SA1037KQ-1	S	BC807	AA
Q 0715	RH-TX0215BMZZ	S	MOSFET 2SK2715	AF
Q 0717	VS2SC2412KQ-1	S	2SC2412	AA
Q 0801	VS2SA1037KQ-1	S	BC807	AA
Q 0802	VS2SC2412KQ-1	S	2SC2412	AA
Q 1001	VS2SC2412KQ-1	S	2SC2412	AA
Q 1002	VS2SC2412KQ-1	S	2SC2412	AA
Q 1003	VS2SC2412KQ-1	S	2SC2412	AA
Q 1004	VS2SA1037KQ-1	S	BC807	AA
Q 1005	VS2SC2412KQ-1	S	2SC2412	AA
Q 1006	VS2SC2412KQ-1	S	2SC2412	AA
Q 1007	VS2SC2412KQ-1	S	2SC2412	AA
Q 1601	VS2SC5022/1E	S	C5022 HITACHI	AF
Q 1701	RH-TX0166BMZZ	S	MOSFET 2SK2605 TOSHIBA	AK
Q 2401	VS2SC2412KQ-1	S	2SC2412	AA

DIODES				
D 0203	RH-DX0551BMZZ	S	DIODE LL4148 TFK	AA
D 0204	RH-DX0548BMZZ	S	DIODE BBY40 VARICAP	AE
D 0301	RH-DX0551BMZZ	S	DIODE LL4148 TFK	AA
D 0302	RH-EX0549BMZZ	S	ZENER TZMC7V5 TFK	AA
D 0303	RH-EX0549BMZZ	S	ZENER TZMC7V5 TFK	AA
D 0304	RH-EX0549BMZZ	S	ZENER TZMC7V5 TFK	AA
D 0305	RH-EX0549BMZZ	S	ZENER TZMC7V5 TFK	AA
D 0401	RH-EX0549BMZZ	S	ZENER TZMC7V5 TFK	AA
D 0402	RH-EX0549BMZZ	S	ZENER TZMC7V5 TFK	AA
D 0403	RH-EX0549BMZZ	S	ZENER TZMC7V5 TFK	AA
D 0404	RH-EX0549BMZZ	S	ZENER TZMC7V5 TFK	AA
D 0405	RH-EX0549BMZZ	S	ZENER TZMC7V5 TFK	AA
D 0406	RH-EX0549BMZZ	S	ZENER TZMC7V5 TFK	AA
D 0407	RH-EX0549BMZZ	S	ZENER TZMC7V5 TFK	AA
D 0408	RH-EX0549BMZZ	S	ZENER TZMC7V5 TFK	AA

PARTS LIST

REPLACEMENT PARTS

Replacement parts which have special safety characteristics are identified in this manual. Electrical components having such features are identified by **u** in the Replacement Parts list.

The use of a substitute replacement part which does not have the same safety characteristics as the factory recommended is not permitted. Replacement parts not shown in this service manual may create shock fire, or other hazards.

HOW TO ORDER REPLACEMENT PARTS

To have you order completed promptly and correctly please supply the following information.

1. MODEL NUMBER, REF. NO.
3. PART NO.
5. CODE
2. DESCRIPTION
4. QUANTITY

★ MARK: SPARE PARTS DELIVERY SECTION

REF N°	PARTS	★	DESCRIPTION	CODE
PICTURE TUBE				
△	VB66QBD2910*N	S	C.R.T. 28" 66FW54H	CV
△	VB76QAG280W12	S	C.R.T. 32" 76FW54H	
△	RCILG0417BMZZ	S	DEGAUSSING COIL 28" 66FW54H	AX
△	RCILG0418BMZZ	S	DEGAUSSING COIL 32" 76FW54H	AZ
△	RCILG0422CEZZ	S	ROTATION COIL 28" 66FW54H	AP
△	RCILG0419BMZZ	S	ROTATION COIL 32" 76FW54H	AR
PRINTED WIRIN BOARDS				
(NOT REPLACEMENT ITEM)				
PWB-A	DUNTK7240BMV8	S	MOTHER UNIT 66FW54H	—
PWB-A	DUNTK7240BMW3	S	MOTHER UNIT 76FW54H	
PWB-B	DUNTK7273BMV1	S	SOCKET UNIT 66FW54H	
PWB-B	DUNTK7273BMV4	S	SOCKET UNIT 76FW54H	
PWB-C	DUNTK7243BMV1	S	DOLBY UNIT 66FW54H	
PWB-C	DUNTK7243BMV2	S	DOLBY UNIT 76FW54H	
PWB-D	DUNTK7266BMV1	S	CONTROL UNIT 66FW54H	
PWB-D	DUNTK7266BMV5	S	CONTROL UNIT 76FW54H	
PWB-E	DUNTK7267BMV1	S	A/V FRONT UNIT 66FW54H	
PWB-E	DUNTK7267BMV5	S	A/V FRONT UNIT 76FW54H	
PWB-F	DUNTK7285BMV4	S	AUDIO AMP. UNIT 66FW54H	
PWB-F	DUNTK7285BMV3	S	AUDIO AMP. UNIT 76FW54H	
PWB-G	DUNTK7268BMV0	S	EXT. SPEAKER (X2) 66FW54H	
PWB-G	DUNTK7268BMV1	S	EXT. SPEAKER (X2) 76FW54H	
PWB-H	DUNTK7229BMV2	S	EXT. SPEAKER (X3) 66FW54H	
PWB-H	DUNTK7229BMV3	S	EXT. SPEAKER (X3) 76FW54H	
PWB-I	DUNTK7271BMV4	S	DEFLECTION (ONLY 76FW54H)	
PWB-A MOTHER UNIT				
TUNER				
△ TH 0201	RTUNH0123BMZZ	S	TUNER CTT5020	BA
INTEGRATED CIRCUITS				
IC 0201	RH-IX1672BMZZ	S	TDA4472-MFL TEMIC	AP
IC 0202	RH-IX1556BMZZ	S	BA10393 S0P8	AD
IC 0203	RH-IX0037CEZZ	S	UPC574J 33V	AD
IC 0301	VHITDA7480/-1	S	TDA7480	AK
IC 0302	VHITDA7480/-1	S	TDA7480	AK
IC 0304	VHIM5218L/-1	S	M5218L	AF
IC 0305	RH-IX1636BMZZ	S	MSP3410D PSD1P64 ITT	BD
IC 0401	RH-IX1602BMZZ	S	HEF 4053	AE
IC 0501	VHITDA7480/-1	S	TDA7480	AK
IC 0502	VHIBA4558F/-1	S	BA4558F-E2 OP-AMP	
IC 0503	RH-IX1556BMZZ	S	BA10393 S0P8	AD
IC 0701	VHIPST529C2-1	S	PST529C2	AD
IC 0702	RH-IX1646BMZZ	S	ST6203B SGS	AL
△ IC 0703	RH-FX0106BMZZ	S	M0C8106SR2V-M	AD
△ IC 0704	RH-FX0106BMZZ	S	M0C8106SR2V-M	AD
△ IC 0705	RH-FX0106BMZZ	S	M0C8106SR2V-M	AD
IC 0706	RH-IX1674BMZZ	S	KA431AZ	AD
IC 0707	RH-IX1704BMZZ	S	L4978	AK

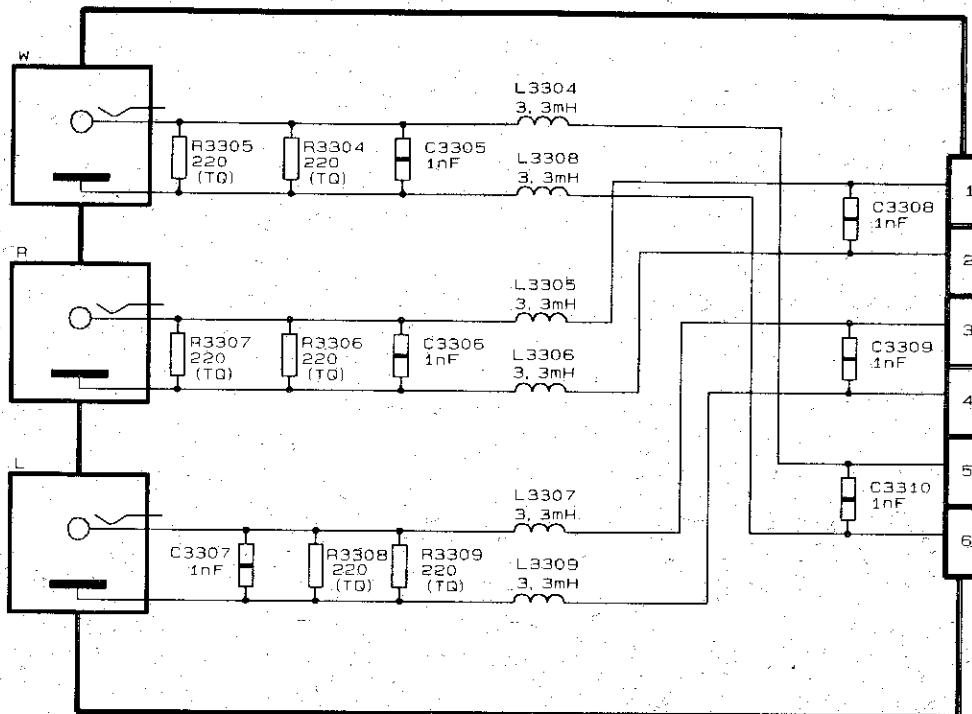
REF N°	PARTS	★	DESCRIPTION	CODE
IC 0708	RH-FX0111BMZZ	S	OPTOCOUP. TLP165J TOSHIBA	AE
IC 0801	RH-IX1688BMN2	S	VDP 3120C2 MICRONAS	BH
IC 1001	RH-IX1686BMZZ	S	ST10R272L	AW
IC 1002	CH-IX1664CJH6	S	CON EPROM SOFT 66FW54H	AX
IC 1003	CH-IX1664CJH8	S	CON EPROM SOFT 76FW54H	AV
IC 1004	RH-IX1603BMZZ	S	NVM X24645S8 XICOR	AV
IC 1005	VHIPST529C2-1	S	NVM X24645S8 XICOR	AD
IC 1801	RH-IX1416BMZZ	S	PST529C2	AN
IC 2401	RH-IX1709BMZZ	S	TEA 5101A	BG
IC 2402	RH-IX1656BMZZ	S	SDA5275-3MTXT NIVEL2,5	AY
			RAM D KM44C1000DT-6T SAMS	

TRANSISTORS

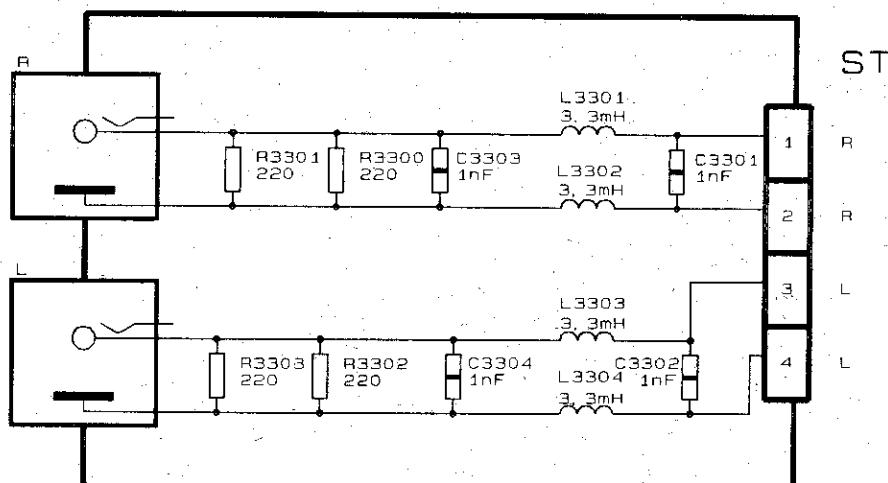
Q 0201	VS2SA1037KQ-1	S	BC807	AA
Q 0208	VS2SC2412KQ-1	S	2SC2412	AA
Q 0209	VS2SC2412KQ-1	S	2SC2412	AA
Q 0210	VS2SC2412KQ-1	S	2SC2412	AA
Q 0302	VS2SC2412KQ-1	S	2SC2412	AA
Q 0303	VS2SC2412KQ-1	S	2SC2412	AA
Q 0304	VS2SA1037KQ-1	S	BC807	AA
Q 0305	VS2SC2412KQ-1	S	2SC2412	AA
Q 0306	VS2SC2412KQ-1	S	2SC2412	AA
Q 0403	VS2SC2412KQ-1	S	2SC2412	AA
Q 0404	VS2SC2412KQ-1	S	2SC2412	AA
Q 0405	VS2SA1037KQ-1	S	BC807	AA
Q 0406	VS2SA1037KQ-1	S	BC807	AA
Q 0408	VS2SC2412KQ-1	S	2SC2412	AA
Q 0501	VS2SC2412KQ-1	S	2SC2412	AA
Q 0502	RH-TX0201BMZZ	S	KSA928A	AC
Q 0503	RH-TX0172BMZZ	J	IRFR010TM_N	AE
Q 0505	VS2SC2412KQ-1	S	2SC2412	AA
Q 0506	RH-TX0151BMZZ	S	2SD2391Q	AD
Q 0507	RH-TX0203BMZZ	S	2SB852	AB
Q 0601	RH-TX0144BMZZ	S	BUH 51B	AK
Q 0602	RH-TX0192BMZZ	S	KSC2500	AC
Q 0603	VS2SC2412KQ-1	S	2SC2412	AA
Q 0606	VS2SC2412KQ-1	S	2SC2412	AA
Q 0607	VS2SC2412KQ-1	S	2SC2412	AA
Q 0608	VS2SC2412KQ-1	S	2SC2412	AA
Q 0701	RH-TX0198BMZZ	S	SF10N80A	AU
Q 0702	RH-TX0182BMZZ	S	2PD602AR	AB
Q 0703	RH-TX0151BMZZ	S	2SD2391Q	AD
Q 0708	VS2SC2412KQ-1	S	2SC2412	AA
Q 0709	VS2SC2412KQ-1	S	2SC2412	AA
Q 0710	VS2SC2412KQ-1	S	2SC2412	AA
Q 0711	RH-TX0106BMZZ	S	BC547	AB
Q 0712	VS2SC2412KQ-1	S	2SC2412	AA
Q 0714	VS2SA1037KQ-1	S	BC807	AA
Q 0715	RH-TX0215BMZZ	S	MOSFET 2SK2715	AF
Q 0717	VS2SC2412KQ-1	S	2SC2412	AA
Q 0801	VS2SA1037KQ-1	S	BC807	AA
Q 0802	VS2SC2412KQ-1	S	2SC2412	AA
Q 1001	VS2SC2412KQ-1	S	2SC2412	AA
Q 1002	VS2SC2412KQ-1	S	2SC2412	AA
Q 1003	VS2SC2412KQ-1	S	2SC2412	AA
Q 1004	VS2SA1037KQ-1	S	BC807	AA
Q 1005	VS2SC2412KQ-1	S	2SC2412	AA
Q 1006	VS2SC2412KQ-1	S	2SC2412	AA
Q 1007	VS2SC2412KQ-1	S	2SC2412	AA
Q 1601	VS2SC5022/1E	S	C5022 HITACHI	AF
Q 1701	RH-TX0166BMZZ	S	MOSFET 2SK2605 TOSHIBA	AK
Q 2401	VS2SC2412KQ-1	S	2SC2412	AA

DIODES				
D 0203	RH-DX0551BMZZ	S	DIODE LL4148 TFK	AA
D 0204	RH-DX0548BMZZ	S	DIODE BB40 VARICAP	AE
D 0301	RH-DX0551BMZZ	S	DIODE LL4148 TFK	AA
D 0302	RH-EX0549BMZZ	S	ZENER TZMC7V5 TFK	AA
D 0303	RH-EX0549BMZZ	S	ZENER TZMC7V5 TFK	AA
D 0304	RH-EX0549BMZZ	S	ZENER TZMC7V5 TFK	AA
D 0305	RH-EX0549BMZZ	S	ZENER TZMC7V5 TFK	AA
D 0401	RH-EX0549BMZZ	S	ZENER TZMC7V5 TFK	AA
D 0402	RH-EX0549BMZZ	S	ZENER TZMC7V5 TFK	AA
D 0403	RH-EX0549BMZZ	S	ZENER TZMC7V5 TFK	AA
D 0404	RH-EX0549BMZZ	S	ZENER TZMC7V5 TFK	AA
D 0405	RH-EX0549BMZZ	S	ZENER TZMC7V5 TFK	AA
D 0406	RH-EX0549BMZZ	S	ZENER TZMC7V5 TFK	AA
D 0407	RH-EX0549BMZZ	S	ZENER TZMC7V5 TFK	AA
D 0408	RH-EX0549BMZZ	S	ZENER TZMC7V5 TFK	AA

SCHEMATIC DIAGRAM



EXTERNAL SPEAKER X 3



EXTERNAL SPEAKER X 2

1	2	3	4	5	6
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REF N°	PARTS	★ DESCRIPTION	CODE	REF N°	PARTS	★ DESCRIPTION	CODE
D 0409	RH-EX0549BMZZ	S ZENER TZMC7V5 TFK	AA	X 0801	RCRSB0219BMZZ	S CRYSTAL 20.25 MHZ	AH
D 0410	RH-EX0549BMZZ	S ZENER TZMC7V5 TFK	AA	X 1002	RCRSB0200BMZZ	S CRYSTAL 17.734 MHZ	AG
D 0411	RH-EX0546BMZZ	S ZENER TZMC5V6 TFK	AA	X 2401	RCRSB0214BMZZ	S CRYSTAL 20.48 MHZ SEL	AH
D 0412	RH-DX0551BMZZ	S DIODE LL4148 TFK	AA			COILS	
D 0413	RH-EX0584BMZZ	S ZENER TZMBC6V2 TFK 2%	AA	L 0201	VP-DF120K0000	S COIL 12µH 10%	AB
D 0414	RH-DX0551BMZZ	S DIODE LL4148 TFK	AA	L 0202	VP-NM150KR63N	S COIL 15µH	AC
D 0415	RH-EX0547BMZZ	S ZENER TZMC6V2 TFK	AA	L 0203	VP-CF6R8K0000	S COIL 6.8µH 10%	AA
D 0416	RH-EX0547BMZZ	S ZENER TZMC6V2 TFK	AA	L 0204	RCILP0229BMZZ	S COIL 610NH LQN1HR61J	AD
D 0417	RH-EX0547BMZZ	S ZENER TZMC6V2 TFK	AA	L 0205	VP-NM1R5MR19N	S COIL 1.5µH	AB
D 0419	RH-DX0551BMZZ	S DIODELL4148 TFK	AA	L 0301	VP-DF100K0000	S COIL 10µH 10%	AB
D 0420	RH-EX0546BMZZ	S ZENER TZMC5V6 TFK	AA	L 0315	VP-CF3R3K0000	S COIL 3.3µH 10%	AB
D 0421	RH-EX0544BMZZ	S ZENER TZMC4V7 TFK	AA	L 0316	VP-CF3R3K0000	S COIL 3.3µH 10%	AB
D 0502	RH-DX0551BMZZ	S DIODE LL4148 TFK	AA	L 0318	VP-DF3R3K0000	S COIL 3.3µH 10%	AB
D 0503	RH-DX0551BMZZ	S DIODE LL4148 TFK	AA	L 0350	VP-CF3R3K0000	S COIL 3.3µH 10%	AB
D 0504	RH-DX0551BMZZ	S DIODE LL4148 TFK	AA	L 0351	VP-CF3R3K0000	S COIL 3.3µH 10%	AB
D 0506	RH-DX0551BMZZ	S DIODE LL4148 TFK	AA	L 0352	RCILP0278BMZZ	S COIL A823LY-680K TOKO	AD
D 0507	RH-EX0554BMZZ	S ZENER TZMC12 TFK	AA	L 0353	RCILP0278BMZZ	S COIL A823LY-680K TOKO	AD
D 0508	RH-DX0551BMZZ	S DIODE LL4148 TFK	AA	L 0501	RCILP0271BMZZ	S COIL NC-400/K	AG
D 0509	RH-DX0551BMZZ	S DIODE LL4148 TFK	AA	L 0502	VP-CF3R3K0000	S COIL 3.3µH 10%	AB
D 0510	RH-DX0505BMZZ	S DIODE 1N4935	AE	L 0503	VP-CF3R3K0000	S COIL 3.3µH 10%	AB
D 0515	RH-EX0544BMZZ	S ZENER TZMC4V7 TFK	AA	L 0601	VP-NM3R3MR19N	S COIL 3.3µH	AC
D 0516	RH-EX0837BMZZ	S ZENER BZT03C47	AD	L 0603	RCILP0286BMZZ	S COIL BR-0602/A	AG
D 0601	RH-DX0551BMZZ	S DIODE LL4148 TFK	AA	L 0604	RCILP0284BMZZ	S COIL HR-18015-01	AG
D 0603	RH-DX0299BMZZ	S DIODE BY228-20	AE	L 0605	RCILZ0599CEZZ	S DELAY LINE	AG
D 0604	RH-DX0301BMZZ	S DIODE BY 299 C6.3	AD	L 0606	RCILP0237BMZZ	S COIL AR621LY-151K=R TOKO	AD
D 0608	RH-DX0505BMZZ	S DIODE 1N4935	AE	L 0701	RCILP0108BMZZ	S COIL 472839.00	AL
D 0609	RH-DX0505BMZZ	S DIODE 1N4935	AE	L 0705	RCILP0285BMZZ	S COIL PCV1620-500K	AF
D 0610	RH-DX0503BMZZ	S DIODE 1N4933	AB	L 0801	VP-CF3R3K0000	S COIL 3.3µH 10%	AB
D 0611	RH-DX0505BMZZ	S DIODE 1N4935	AE	L 0803	VP-CF3R3K0000	S COIL 3.3µH 10%	AB
D 0613	RH-DX0506BMZZ	S DIODE 1N4936	AB	L 2401	VP-DF3R3K0000	S COIL 3.3µH 10%	AB
D 0615	RH-DX0551BMZZ	S DIODE LL4148 TFK	AA	L 2402	VP-DF100K0000	S COIL 10µH 10%	AB
D 0617	RH-EX0561BMZZ	S ZENER TZMC24 TFK	AA	LA 0609	VP-CF1R2K0000	S COIL 1.2µH 10%	AB
D 0618	RH-EX0544BMZZ	S ZENER TZMC4V7 TFK	AA	FB 0801	VP-NM3R3MR19N	S COIL 3.3µH	AC
D 0621	RH-DX0506BMZZ	S DIODE 1N4936	AB	J 0039	VP-DF3R3K0000	S COIL 3.3µH 10%	AB
D 0622	RH-EX0425BMZZ	S ZENER BZX79C27V	AB	J 0062	VP-DF3R3K0000	S COIL 3.3µH 10%	AB
D 0701	RH-DX0555BMZZ	S DIODE RF2005 FAGOR	AA			CERAMICIC FILTERS	
D 0702	RH-DX0555BMZZ	S DIODE F2005 FAGOR	AB	CF 0202	RFILC0023CEZZ	S FILTER	AE
D 0703	RH-DX0555BMZZ	S DIODE RF2005 FAGOR	AB	CF 0701	RFILC0121GEZZ	S FILTER CST8.00MTW	AD
D 0704	RH-DX0555BMZZ	S DIODE RF2005 FAGOR	AB	SF 0201	RFILC0283BMZZ	S SAW FILTER J1980M	AM
D 0706	RH-DX0551BMZZ	S DIODE LL4148 TFK	AA	SF 0202	RFILC0288BMZZ	S SAW FILTER K9353M	AK
D 0707	RH-DX0502BMZZ	S DIODE 1N4005	AA			TRANSFORMERS	
D 0708	RH-DX0502BMZZ	S DIODE 1N4005	AA	AE △ T 0601	RTRNF2069BMZZ	S FBT HR-8014-02	BB
D 0710	RH-EX0545BMZZ	S ZENER TZMC5V1 TFK	AA	AE △ T 0701	RTRNZ0578BMZZ	S CHOPPER TG-0601A	AT
D 0711	RH-DX0539BMZZ	S DIODE BYT52M TFK	AC			CAPACITORS	
D 0712	RH-EX0419BMZZ	S ZENER BZX79C15V 0.4W	AB	C 0204	VCEAGA1HW225M	S ELECTR. 2.2MF 20% 50V	AB
D 0713	RH-DX0551BMZZ	S DIODE LL4148 TFK	AA	C 0205	RC-FZ9474BMNJ	J FILM POL. 470NF 5% 63V	AD
D 0714	RH-DX0605BMZZ	S DIODE MBR340RL	AA	C 0206	VCEAGA1HW225M	S ELECTR. 2.2MF 20% 50V	AB
D 0715	RH-DX0551BMZZ	S DIODE LL4148 TFK	AA	C 0207	VCKYTV1HF103Z	S CERAMIC 10NF 50V	AA
D 0716	RH-EX0411BMZZ	S ZENER BZX79C6V8	AA	C 0208	VCKYTV1HF223Z	S CERAMIC 22NF 50V	AA
D 0718	RH-DX0603BMZZ	S DIODE RGP15D FAGOR	AC	C 0209	VCEAGA1CW107M	S ELECTR. 100MF 20% 16V	AB
D 0719	RH-DX0603BMZZ	S DIODE RGP15D FAGOR	AC	C 0211	VCEAGA1HW106M	S ELECTR. 10MF 20% 50V	AA
D 0720	RH-DX0587BMZZ	S DIODE MR826 C6.3	AP	C 0214	VCKYTV1HF104Z	S CERAMIC 100NF 50V	AA
D 0721	RH-EX0550BMZZ	S ZENER TZMC8V2 TFK	AA	C 0215	VCEAGA1AW477M	S ELECTR. 470MF 20% 10V	AB
D 0722	RH-DX0504BMZZ	S DIODE 1N4934	AB	C 0216	VCCCTV1HH270J	S CERAMIC 27PF 50V	AA
D 0724	RH-EX0538BMZZ	S ZENER TZMC2V7 TFK	AA	C 0217	VCCCTV1HH221J	S CERAMIC 220PF 50V	AA
D 0725	RH-DX0551BMZZ	S DIODE LL4148 TFK	AA	C 0218	VCEAGA1CW226M	S ELECTR. 22MF 20% 16V	AA
D 0726	RH-EX0554BMZZ	S ZENER TZMC12 TFK	AA	C 0219	VCEAGA1CW106M	S ELECTR. 10MF 20% 16V	AA
D 0727	RH-DX0551BMZZ	S DIODE LL4148 TFK	AA	C 0220	VCEAGA1CW106M	S ELECTR. 10MF 20% 16V	AA
D 0728	RH-EX0544BMZZ	S ZENER TZMC4V7 TFK	AA	C 0221	VCCCTV1HH220J	S CERAMIC 22PF 50V	AA
D 0729	RH-EX0568BMZZ	S ZENER TZMC47 TFK	AA	C 0222	VCCCTV1HH220J	S CERAMIC 22PF 50V	AA
D 0730	RH-DX0551BMZZ	S DIODE LL4148 TFK	AA	C 0223	VCKYTV1HB333K	S CERAMIC 33NF 50V	AA
D 0731	RH-DX0502BMZZ	S DIODE 1N4005	AA	C 0224	VCKYTV1HF104Z	S CERAMIC 100NF 50V	AA
D 0732	RH-EX0556BMZZ	S ZENER TZMC15 TFK	AA	C 0225	VCKYTV1HF104Z	S CERAMIC 100NF 50V	AA
D 0733	RH-DX0551BMZZ	S DIODE LL4148 TFK	AA	C 0228	VCCWPA2HL8R2C	S 8.2PF 0.25 N1500 500V	AB
D 0734	RH-DX0502BMZZ	S DIODE 1N4005	AA	C 0229	VCEAGA1CW226M	S ELECTR. 22MF 20% 16V	AA
D 0801	RH-EX0549BMZZ	S ZENER TZMC7V5 TFK	AA	C 0230	VCCCTV1HH220J	S CERAMIC 22PF 50V	AA
D 0802	RH-EX0549BMZZ	S ZENER TZMC7V5 TFK	AA	C 0305	VCEAGA1CW106M	S ELECTR. 10MF 20% 16V	AA
D 1003	RH-DX0606BMZZ	S DIODE BAS85	AB	C 0306	VCEAGA1CW106M	S ELECTR. 10MF 20% 16V	AA
D 1004	RH-EX0545BMZZ	S ZENER TZMC5V1 TFK	AA	C 0309	VCKYTV1HB102K	S CERAMIC 1NF 50V	AA
D 1005	RH-EX0545BMZZ	S ZENER TZMC5V1 TFK	AA	C 0310	VCKYTV1HB102K	S CERAMIC 1NF 50V	AA
D 1006	RH-EX0546BMZZ	S ZENER TZMC5V6 TFK	AA	C 0311	VCEAGA1AW337M	S ELECTR. 330MF 20% 10V	AB
D 1007	RH-EX0546BMZZ	S ZENER TZMC5V6 TFK	AA	C 0312	VCKYTV1HF104Z	S CERAMIC 100NF 50V	AA
D 1008	RH-EX0546BMZZ	S ZENER TZMC5V6 TFK	AA	C 0313	VCEAGA1CW106M	S ELECTR. 10MF 20% 16V	AA
D 1009	RH-DX0551BMZZ	S DIODE LL4148 TFK	AA	C 0314	VCEAGA1CW106M	S ELECTR. 10MF 20% 16V	AA
D 2401	RH-EX0539BMZZ	S ZENER TZMC3V0 TFK	AA			PACKAGED CIRCUITS	
T 0702	VHDBTW34F/-1	S BT134W-500	AE				
△ POR0701	RMPTP0001BMZZ	S PTC B59250-C1080-B70 SIEM	AD				
X 0301	RCRSB0203BMZZ	S CRYSTAL 18.432 MHZ	AG				

REF N°	PARTS	★	DESCRIPTION	CODE	REF N°	PARTS	★	DESCRIPTION	CODE
R 0776	VRS-TV1JD823J	S	RES 82KOHM 5% 1/10W	AA	FB 1001	VRS-TQ2BD000J	S	3216 0 OHM 5% 1/8W	AA
R 0777	VRS-TV1JD470J	S	RES 47 OHM 5% 1/10W	AA	J 0248	VRD-RA2HD121J	S	RES 120 OHM 5% 1/2W	AA
R 0787	VRS-TV1JD473J	S	RES 47KOHM 5% 1/10W	AA				MISCELLANEOUS PARTS	
R 0788	VRS-TV1JD183J	S	RES 18KOHM 5% 1/10W	AA	△ F 0601	QFS-J2521CEZZ	S	FUSE. 2,5A/125V E	AD
R 0789	VRS-TV1JD183J	S	RES 18KOHM 5% 1/10W	AA	△ F 0602	QFS-J2521CEZZ	S	FUSE. 2,5A/125V E	AD
R 0790	VRD-RA2BE183J	S	RES 18KOHM 5% 1/8W	AA	△ J 0152	QFS-J1023CEZZ	S	FUSE. 1A/125V E	AA
R 0791	VRD-RA2BE183J	S	RES 18KOHM 5% 1/8W	AA	FB 0301	RBLN-0037CEZZ	S	FERRITE BEAD	AB
R 0792	VRD-RA2BE682J	S	RES 6,8KOHM 5% 1/8W	AA	FB 0302	RBLN-0037CEZZ	S	FERRITE BEAD	AB
R 0801	VRS-TV1JD103J	S	R.OX 10KOHM 5% 1/10W	AA	FB 0303	RBLN-0037CEZZ	S	FERRITE BEAD	AB
R 0803	VRS-TV1JD122J	S	RES 1,2KOHM 5% 1/10W	AA	FB 0501	RBLN-0020CEZZ	S	FERRITE BEAD	AB
R 0804	VRS-TV1JD271J	S	RES 270 OHM 5% 1/10W	AA	FB 0701	RBLN-0037CEZZ	S	FERRITE BEAD	AB
R 0805	VRS-TV1JD222J	S	RES 2,2KOHM 5% 1/10W	AA	FB 0702	RBLN-0037CEZZ	S	FERRITE BEAD	AB
R 0806	VRS-TV1JD102J	S	R.OX 1KOHM 5% 1/10W	AA	FB 0703	RBLN-0037CEZZ	S	FERRITE BEAD	AB
R 0807	VRS-TV1JD333J	S	RES 33KOHM 5% 1/10W	AA	FB 0705	RBLN-0020CEZZ	S	FERRITE BEAD	AB
R 0808	VRS-TV1JD103J	S	R.OX 10KOHM 5% 1/10W	AA	FB 0802	RCORF0003GEZZ	S	FERRIT HF50ACB322513	AC
R 0809	VRS-TV1JD103J	S	R.OX 10KOHM 5% 1/10W	AA	FB 1002	RBLN-0037CEZZ	S	FERRITE BEAD	AB
R 0810	VRS-TV1JD103J	S	R.OX 10KOHM 5% 1/10W	AA	(AA)	QCNCM0672FCZZ	S	CONNECTOR B2P3-VH JST	AA
R 0811	VRS-TV1JD103J	S	R.OX 10KOHM 5% 1/10W	AA	(CC)	QPLGN0241CEZZ	S	CONNECTOR	AA
R 0812	VRS-TV1JD222J	S	RES 2,2KOHM 5% 1/10W	AA	(CN1)	QSOCZ2109BMZZ	S	DOBLE SCART CONEC	AK
R 1001	VRS-TV1JD332J	S	RES 3,3KOHM 5% 1/10W	AA	(CN2)	QSOCZ2107BMZZ	S	SOCKET 21 PINS	AE
R 1002	VRS-TV1JD332J	S	RES 3,3KOHM 5% 1/10W	AA	(CW)	QPLGN0241CEZZ	S	CONNECTOR	AA
R 1003	VRD-RA2BE332J	S	RES 3,3KOHM 5% 1/8W	AA	(F)	QPLGN0505CEZZ	S	CONNECTOR	AB
R 1004	VRS-TV1JD332J	S	RES 3,3KOHM 5% 1/10W	AA	(FV)	QPLGN0241CEZZ	S	CONNECTOR	AB
R 1005	VRS-TV1JD472J	S	RES 4,7KOHM 5% 1/10W	AA	(G)	QPLGN0207CEZZ	S	CONNECTOR DESMAG.(2 PINS)	AA
R 1017	VRS-TV1JD332J	S	RES 3,3KOHM 5% 1/10W	AA	(H)	QPLGN0541CEZZ	S	CONNECTOR	AB
R 1018	VRD-RA2BE101J	S	RES 100 OHM 5% 1/8W	AA	(HD)	QPLGN0341CEZZ	S	CONNECTOR	AA
R 1019	VRD-RA2BE332J	S	RES 3,3KOHM 5% 1/8W	AA	(K)	QPLGN0841CEZZ	S	CONNECTOR	AB
R 1020	VRD-RA2BE332J	S	RES 3,3KOHM 5% 1/8W	AA	(L2)	QTIPM0017CEFM	S	TIP	AA
R 1021	VRS-TV1JD472J	S	RES 4,7KOHM 5% 1/10W	AA	(L5)	QTIPM0017CEFM	S	TIP	AA
R 1022	VRD-RA2BE101J	S	RES 100 OHM 5% 1/8W	AA	(MO)	QPLGN0441CEZZ	S	CONNECTOR 4PIN	AB
R 1023	VRS-TV1JD221J	S	RES 220 OHM 5% 1/10W	AA	(OPC)	QPLGN0341CEZZ	S	CONNECTOR	AA
R 1024	VRS-TV1JD822J	S	RES 8,2KOHM 5% 1/10W	AA	(PW)	QCNCM0672FCZZ	S	CONNECTOR B2P3-VH JST	AA
R 1025	VRS-TV1JD822J	S	RES 8,2KOHM 5% 1/10W	AA	(RC)	QPLGN0341CEZZ	S	CONNECTOR	AA
R 1026	VRS-TV1JD221J	S	RES 220 OHM 5% 1/10W	AA	(RT)	QPLGN0241CEZZ	S	CONNECTOR	AA
R 1027	VRD-RA2BE103J	S	RES 10KOHM 5% 1/8W	AA	(S)	QPLGN0441CEZZ	S	CONNECTOR 4PIN	AB
R 1028	VRS-TV1JD102J	S	R.OX 1KOHM 5% 1/10W	AA	(SA)	QPLGN1241CEZZ	S	CONNECTOR	AE
R 1029	VRS-TV1JD472J	S	RES 4,7KOHM 5% 1/10W	AA	(SB)	QSOCN0685CEZZ	S	SOCKET	AD
R 1030	VRS-TV1JD472J	S	RES 4,7KOHM 5% 1/10W	AA	(SS)	QPLGN0341CEZZ	S	CONNECTOR	AA
R 1031	VRS-TV1JD472J	S	RES 4,7KOHM 5% 1/10W	AA	(ST)	QPLGN0341CEZZ	S	CONNECTOR	AA
R 1032	VRS-TV1JD273J	S	RES 27KOHM 5% 1/10W	AA	(SV)	QPLGN0341CEZZ	S	CONNECTOR	AA
R 1033	VRS-TV1JD103J	S	R.OX 10KOHM 5% 1/10W	AA	(SW1)	QPLGN0341CEZZ	S	CONNECTOR	AA
R 1035	VRS-TV1JD472J	S	RES 4,7KOHM 5% 1/10W	AA	(SW2)	QPLGN0341CEZZ	S	CONNECTOR	AA
R 1036	VRD-RA2BE472J	S	RES 4,7KOHM 5% 1/8W	AA		PWB-B SOCKET UNIT			
R 1037	VRS-TV1JD472J	S	RES 4,7KOHM 5% 1/10W	AA					
R 1040	VRS-TV1JD101J	S	R.OX 100 OHM 5% 1/10W	AA					
R 1041	VRS-TV1JD472J	S	RES 4,7KOHM 5% 1/10W	AA					
R 1042	VRS-TV1JD822J	S	RES 8,2KOHM 5% 1/10W	AA					
R 1043	VRS-TV1JD822J	S	RES 8,2KOHM 5% 1/10W	AA					
R 1044	VRS-TV1JD103J	S	R.OX 10KOHM 5% 1/10W	AA					
R 1045	VRS-TV1JD822J	S	RES 8,2KOHM 5% 1/10W	AA					
R 1046	VRS-TV1JD182J	S	RES 1,8KOHM 5% 1/10W	AA					
R 1047	VRD-RA2BE103J	S	RES 10KOHM 5% 1/8W	AA					
R 1048	VRS-TV1JD821J	S	RES 820 OHM 5% 1/10W	AA					
R 1049	VRS-TV1JD103J	S	R.OX 10KOHM 5% 1/10W	AA					
R 1050	VRD-RA2BE221J	S	RES 220 OHM 5% 1/8W	AA					
R 1051	VRS-TV1JD223J	S	RES 22KOHM 5% 1/10W	AA					
R 1052	VRS-TV1JD472J	S	RES 4,7KOHM 5% 1/10W	AA					
R 1053	VRS-TV1JD104J	S	RES 100KOHM 5% 1/10W	AA					
R 1054	VRS-TV1JD104J	S	RES 100KOHM 5% 1/10W	AA					
R 1055	VRD-RA2BE473J	S	RES 47KOHM 5% 1/8W	AA					
R 1056	VRS-TV1JD000J	S	RES 0 OHM 5% 1/10W	AA					
R 1057	VRS-TV1JD102J	S	R.OX 1KOHM 5% 1/10W	AA					
R 1058	VRD-RA2BE101J	S	RES 100 OHM 5% 1/8W	AA					
R 1059	VRD-RA2BE101J	S	RES 100 OHM 5% 1/8W	AA					
R 2401	VRS-TV1JD471J	S	RES 470 OHM 5% 1/10W	AA					
R 2402	VRS-TV1JD472J	S	RES 4,7KOHM 5% 1/10W	AA					
R 2403	VRS-TV1JD152J	S	RES 1,5KOHM 5% 1/10W	AA					
R 2404	VRS-TV1JD560J	S	RES 56 OHM 5% 1/10W	AA					
R 2405	VRS-TV1JD104J	S	RES 100KOHM 5% 1/10W	AA					
R 2406	VRS-TV1JD222J	S	RES 2,2KOHM 5% 1/10W	AA					
R 2407	VRS-TV1JD222J	S	RES 2,2KOHM 5% 1/10W	AA					
R 2408	VRS-TV1JD332J	S	RES 3,3KOHM 5% 1/10W	AA					
R 2409	VRS-TV1JD000J	S	RES 0 OHM 5% 1/10W	AA					
R 2410	VRS-TV1JD101J	S	R.OX 100 OHM 5% 1/10W	AA					
R 2411	VRS-TV1JD101J	S	R.OX 100 OHM 5% 1/10W	AA					
R 2412	VRS-TV1JD101J	S	R.OX 100 OHM 5% 1/10W	AA					
C 0212	VRS-TV1JD000J	S	RES 0 OHM 5% 1/10W	AA	D 1607	RH-EX0537BMZZ	S	ZENER TZMC2V4 TFK	AA
C 0213	VRS-TV1JD000J	S	RES 0 OHM 5% 1/10W	AA	D 1804	RH-DX0505BMZZ	S	DIODE 1N4935	AE
C 0434	VCKYTV1EF224Z	S	CERAMIC 220NF 25V	AA	D 1805	RH-EX0554BMZZ	S	ZENER TZMC12 TFK	AA
C 0435	VRS-TV1JD000J	S	RES 0 OHM 5% 1/10W	AA	D 1809	RH-DX0501BMZZ	S	DIODE 1N4004	AA
C 0525	VRS-TV1JD562J	S	RES 5,6KOHM 5% 1/10W	AA	D 5403	RH-DX0551BMZZ	S	DIODE LL4148 TFK	AA

REF N°	PARTS	★	DESCRIPTION	CODE	REF N°	PARTS	★	DESCRIPTION	CODE				
R 1701	VRS-VV3LB473J	S	MET OX RES .47KHM 5% 3W	AB									
R 1702	VRN-VV3ABR27J	J	R FILM MET .27 OHM 5% 1W	AA									
R 1703	VRS-TV1JD223J	S	RES 22KOHM 5% 1/10W	AA									
R 1704	VRD-RA2HD102J	S	RES 1KOHM 5% 1/2W	AA									
R 1705	VRS-TV1JD221J	S	RES 220 OHM 5% 1/10W	AA									
R 1706	VRS-TV1JD103J	S	R OX 10KOHM 5% 1/10W	AA									
R 1707	VRS-TV1JD330J	S	RES 33 OHM 5% 1/10W	AA									
R 1708	VRS-TV1JD221J	S	RES 220 OHM 5% 1/10W	AA									
R 1709	VRD-RA2HD122J	S	RES 1,2KOHM 5% 1/2W	AA									
R 1710	VRS-TV1JD392F	S	RES 3.9KOHM 1% 1/10W	AA									
R 1711	VRS-TV1JD103F	S	RES 10KOHM 1% 1/10W	AA									
R 1712	RR-XZ0114BMZZ	S	FUSE 15R TAP 5% 1/3W	AB									
R 1713	VRS-TV1JD471J	S	RES 470 OHM 5% 1/10W	AA									
R 1714	VRS-TV1JD102F	S	RES 1KOHM 1% 1/10W	AA									
R 1715	VRS-TV1JD102F	S	RES 1KOHM 1% 1/10W	AA									
R 1716	VRS-TV1JD104J	S	RES 100KOHM 5% 1/10W	AA									
R 1717	VRS-TV1JD104J	S	RES 100KOHM 5% 1/10W	AA									
R 1718	VRS-TV1JD473J	S	RES 47KOHM 5% 1/10W	AA									
R 1719	VRS-TV1JD104J	S	RES 100KOHM 5% 1/10W	AA									
R 1720	VRS-TV1JD221J	S	RES 220 OHM 5% 1/10W	AA									
R 1721	VRD-RA2HD684J	S	RES 680KOHM 5% 1/2W	AA									
R 1722	VRD-RA2HD684J	S	RES 680KOHM 5% 1/2W	AA									
R 1723	VRS-TV1JD474J	S	RES 470KOHM 5% 1/10W	AA									
MISCELLANEOUS PARTS													
(BU)	QPLGN1241CEZZ	S	CONNECTOR	AE	J 0401 (CC)	QJAKZ0015CEZZ	S	JACK	AM				
(CS)	QPLGN0241CEZZ	S	CONNECTOR	AA	QCNW-2801BMZZ	S	CABLE 2 PINS (CC)	AG					
(CW)	QPLGN0241CEZZ	S	CONNECTOR	AA	(CC0000	QPLGN0241CEZZ	S	CONNECTOR	AA				
(PW)	QCNCM0672FCZZ	S	CONNECTOR B2P3-VH JST	AA	(CN0004	QJAKJ0047CEZZ	S	EARPHONE JACK HSJ0998-72	AG				
(SR)	QSOCN0685CEZZ	S	SOCKET	AD	(FV)	QCNW-2802BMZZ	S	CABLE 2 PINS (FH)	AG				
(ST)	QSOCN0485CEZZ	S	JST 045L-BT-E	AC	(FV0000	QPLGN0241CEZZ	S	CONNECTOR	AA				
					(HD0000	QCNW-2797BMZZ	S	CABLE 3 PINS (RD)	AE				
					(SS)	QPLGN0341CEZZ	S	CONNECTOR	AA				
					(SS0000	QCNW-2792BMZZ	S	CABLE 3 PINS (SS)	AF				
						QPLGN0341CEZZ	S	CONNECTOR	AA				
PWB-D CONTROL UNIT													
INTEGRATED CIRCUITS													
IC 6708	RH-IX1601BMZZ	S	OPC	AH	IC 1302	VHITDA7480/1	S	TDA7480	AK				
					IC 1305	VHITDA7481/-1	S	TDA7481	AN				
DIODES													
D 6701	RH-DX0502BMZZ	S	DIODE 1N4005	AA	Q 1301	VS2SC2412KQ-1	S	2SC2412	AA				
D 6702	RH-DX0502BMZZ	S	DIODE 1N4005	AA									
D 6751	RH-PX0105BMZZ	S	LED SPB-25MVW	AC	COILS								
D 6752	RH-PX0105BMZZ	S	LED SPB-25MVW	AC	L 1301	RCILP0278BMZZ	S	COIL A823LY-680K TOKO	AD				
					L 1302	VP-CF3R3K0000	S	COIL 3.3μH 10%	AB				
					L 1303	VP-CF3R3K0000	S	COIL 3.3μH 10%	AB				
CAPACITORS													
C 6715	VCKYTV1CF105Z	S	CERAMIC 1μF 16V	AA	CAPACITORS								
					C 1302	RC-FZ9334BMNJ	J	FILM POL 330NF 5% 63V	AC				
					C 1303	VCKYTV1HB391K	S	CERAMIC 390PF 50V	AA				
					C 1304	VCKYTV1HF104Z	S	CERAMIC 100NF 50V	AA				
					C 1305	VCEAGA1HW225M	S	ELECTR. 2,2MF 20% 50V	AB				
					C 1306	VCEAGA1EW227M	S	ELECTR. 220MF 20% 25V	AA				
					C 1307	VCKYTV1HF104Z	S	CERAMIC 100NF 50V	AA				
					C 1308	VCKYTV1HB472K	S	CERAMIC 4,7NF 50V	AA				
					C 1309	RC-FZ9104BMNJ	J	FILM POL 100NF 5% 63V	AB				
					C 1310	VCEAGA1EW227M	S	ELECTR. 220MF 20% 25V	AA				
					C 1311	VCKYTV1HF104Z	S	CERAMIC 100NF 50V	AA				
					C 1312	VCCCTV1HH101J	S	CERAMIC 100PF 50V	AA				
					C 1313	VCCCTV1HH561J	S	CERAMIC 560PF 50V	AA				
					C 1314	RC-FZ9474BMNJ	J	FILM POL 470NF 5% 63V	AD				
					C 1315	RC-FZ9104BMNJ	J	FILM POL 100NF 5% 63V	AB				
MISCELLANEOUS PARTS													
△ F 6701	QFS-C3226CEZZ	S	FUSE T3.15AH 250V	AE	RESISTORS								
△ S 6701	QSW-P0600BMZZ	S	SWITCH S40 3110432713 GDE	AL	R 1307	VRS-TV1JD473J	S	RES 47KOHM 5% 1/10W	AA				
S 6702	QSW-K0079GEZZ	S	BUTTON ECQ-26305K	AB	R 1308	VRS-TV1JD103J	S	R OX 10KOHM 5% 1/10W	AA				
S 6703	QSW-K0079GEZZ	S	BUTTON ECQ-26305K	AB	R 1309	VRS-TV1JD273J	S	RES 27KOHM 5% 1/10W	AA				
S 6704	QSW-K0079GEZZ	S	BUTTON ECQ-26305K	AB	R 1310	VRS-TV1JD473J	S	RES 47KOHM 5% 1/10W	AA				
S 6705	QSW-K0079GEZZ	S	BUTTON ECQ-26305K	AB	R 1311	VRS-TV1JD472J	S	RES 4.7KOHM 5% 1/10W	AA				
LP 6701	RLAMP0001BMZZ	S	NEON 4/30HB NEOTRONIC	AC	R 1312	VRS-TV1JD123J	S	RES 12KOHM 5% 1/10W	AA				
M 6701	RRMUCU205BMZZ	S	R/C RECEPTOR	AF	R 1313	VRS-TV1JD151J	S	RES 150 OHM 5% 1/10W	AA				
(A)	QPLGN0207CEZZ	S	CONNECTOR DESMAG.(2 PINS)	AA									
(M)	QPLGN0304CEZZ	S	CONNECTOR RED (3 PINS)	AB									
(OP)	QPLGN0341CEZZ	S	CONNECTOR	AA									
(RC)	QPLGN0341CEZZ	S	CONNECTOR	AA									
(ST)	QPLGN0341CEZZ	S	CONNECTOR	AA									
(SW1)	QPLGN0341CEZZ	S	CONNECTOR	AA									
(SW2)	QPLGN0341CEZZ	S	CONNECTOR	AA									
MISCELLANEOUS PARTS													
(SB)	QPLGN0685CEZZ	S	CONNECTOR	AC									

REF N°	PARTS	★	DESCRIPTION	CODE	REF N°	PARTS	★	DESCRIPTION	CODE					
(SF)	QPLGN0241CEZZ	S	CONNECTOR	AA	R 1601	VRC-MA2HG33J	S	R SOLID 33KOHM 5% 1/2W	AB					
(VS)	QPLGN0341CEZZ	S	CONNECTOR	AA	R 1602	VRS-VV3LB104J	S	MET OX RES 100KOHM 5% 3W	AA					
PWB-G EXTERNAL SPEAKER (X2)														
CAPACITORS														
C 3301	VCKYTV1HB102K	S	CERAMIC 1NF 50V	AA	R 1603	VRS-VV3LB104J	S	MET OX RES 100KOHM 5% 3W	AA					
C 3302	VCKYTV1HB102K	S	CERAMIC 1NF 50V	AA	R 1604	VRS-VV3LB104J	S	MET OX RES 100KOHM 5% 3W	AA					
C 3303	VCKYTV1HB102K	S	CERAMIC 1NF 50V	AA	R 1605	VRS-VV3AB181J	S	MET OX RES 180 OHM 5% 1W	AA					
C 3304	VCKYTV1HB102K	S	CERAMIC 1NF 50V	AA	R 1606	VRD-RA2BE103J	S	RES 10KOHM 5% 1/W	AA					
RESISTORS														
R 3300	VRS-TQ2BD221J	S	RE OX 220 OHM 5% 1/W	AA	R 1607	VRD-RA2BE103J	S	RES 10KOHM 5% 1/W	AA					
R 3301	VRS-TQ2BD221J	S	RE OX 220 OHM 5% 1/W	AA	R 1608	VRD-RA2BE102J	S	RES 1KOHM 5% 1/W	AA					
R 3302	VRS-TQ2BD221J	S	RE OX 220 OHM 5% 1/W	AA	R 1609	VRD-RA2BE154J	S	RES 150KOHM 5% 1/W	AA					
R 3303	VRS-TQ2BD221J	S	RE OX 220 OHM 5% 1/W	AA	R 1610	VRD-RA2BE823J	S	RES 82KOHM 5% 1/W	AA					
MISCELLANEOUS PARTS														
J 3301	QJAKE0070CEZZ	S	JACK EXT.SP.OUT TCS9004	AD	(F)	QPLGN0505CEZZ	S	CONNECTOR	AB					
J 3302	QJAKE0070CEZZ	S	JACK EXT.SP.OUT TCS9004	AD	(FF)	QPLGN0505CEZZ	S	CONNECTOR	AB					
(ST)	QPLGN0485CEZZ	S	CONNECTOR	AC	(L5)	QTIPM0017CEFM	S	TIP	AA					
PWB-H EXTERNAL SPEAKER (X3)														
CAPACITORS														
C 3305	VCKYTV1HB102K	S	CERAMIC 1NF 50V	AA	(MO)	QPLGN0441CEZZ	S	CONNECTOR 4PIN	AB					
C 3306	VCKYTV1HB102K	S	CERAMIC 1NF 50V	AA	MISCELLANEOUS PARTS									
C 3307	VCKYTV1HB102K	S	CERAMIC 1NF 50V	AA	MISCELLANEOUS PARTS									
C 3308	VCKYTV1HB102K	S	CERAMIC 1NF 50V	AA	R 3304	VRS-TQ2BD221J	S	A.C. CORD	AU					
C 3309	VCKYTV1HB102K	S	CERAMIC 1NF 50V	AA	R 3305	VRS-TQ2BD221J	S	PIN SMK W-T0512-11	AA					
C 3310	VCKYTV1HB102K	S	CERAMIC 1NF 50V	AA	R 3306	VRS-TQ2BD221J	S	REMOTE CONTROL UNIT	AX					
RESISTORS														
R 3304	VRS-TQ2BD221J	S	RE OX 220 OHM 5% 1/W	AA	T 3303	TINS-6700BMN1	S	OPERATION MANUAL 66FW54H	AC					
R 3305	VRS-TQ2BD221J	S	RE OX 220 OHM 5% 1/W	AA	T 3304	TINS-6703BMN0	S	OPERATION MANUAL 66FW54H	AC					
R 3306	VRS-TQ2BD221J	S	RE OX 220 OHM 5% 1/W	AA	T 3305	TINS-6763BMN0	S	OPERATION MANUAL 76FW54H	AC					
R 3307	VRS-TQ2BD221J	S	RE OX 220 OHM 5% 1/W	AA	T 3306	TINS-6764BMN0	S	OPERATION MANUAL 76FW54H	AC					
MISCELLANEOUS PARTS														
J 3303	QJAKE0070CEZZ	S	JACK EXT.SP.OUT TCS9004	AD	T 3307	VSP1004PB438A	S	SPEAKER	AU					
J 3304	QJAKE0070CEZZ	S	JACK EXT.SP.OUT TCS9004	AD	T 3308	VSP1206PB437A	S	CENTRAL SPEAKER	AQ					
J 3305	QJAKE0070CEZZ	S	JACK EXT.SP.OUT TCS9004	AD	CABINET PARTS									
(SR)	QPLGN0685CEZZ	S	CONNECTOR	AC	1	GCABA1262BMSA	S	FRONT CABINET 66FW54H						
PWB-I DEFLECTION UNIT					1	GCABA1278BMSA	S	FRONT CABINET 76FW54H						
INTEGRATED CIRCUITS					1-1	GDORF1050BMSA	S	DOOR 66FW54H	AE					
IC 1601	RH-IX1596BMZZ	S	OPAM BA10358	AD	1-1	GDORF1051BMSA	S	DOOR 76FW54H	AE					
TRANSISTORS					1-2	HDECQ0027BMSA	S	WINDOW LED 66FW54H	AC					
Q 1602	RH-TX0142BMZZ	S	TBC 547-B TOSHIBA	AB	1-2	HDECQ0029BMSA	S	WINDOW LED 76FW54H	AC					
DIODES					1-3	HDECQ0028BMSA	S	WINDOW POWER 66FW54H	AC					
D 1601	RH-DX0484BMZZ	S	DIODE		1-3	HDECQ0030BMSA	S	WINDOW POWER 76FW54H	AC					
D 1602	RH-DX0045BMZZ	S	DIODE1N4148	AA	1-4	HDBGB3013MESA	S	BADGE SHARP	AG					
D 1603	RH-DX0045BMZZ	S	DIODE1N4148	AA	1-5	JBTN-1042BMSA	S	BUTTON CONTROL 66FW54H	AD					
D 1604	RH-DX0045BMZZ	S	DIODE1N4148	AA	1-5	JBTN-1044BMSA	S	BUTTON CONTROL 76FW54H	AE					
D 1605	RH-EX0417BMZZ	S	ZENER BZX79C12V	AA	1-6	JBTN-1043BMSA	S	BUTTON POWER 66FW54H	AE					
D 1606	RH-DX0045BMZZ	S	DIODE1N4148	AA	1-6	JBTN-1045BMSA	S	BUTTON POWER 76FW54H	AE					
TRANSFORMERS					1-7	HINDP5096BMSA	S	INDICATOR 66FW54H	AF					
T 1602	RTRNZ0575BMZZ	S	CHOPPER FOCO DINAM.	AT	1-7	HINDP5098BMSA	S	INDICATOR 76FW54H	AE					
CAPACITORS					1-8	PKAI-1083BM00	S	DOOR LATCH	AF					
C 1601	RC-KZ0036CEZZ	S	CERAMIC 330PF 2KV	AB	2	CCABB1097BMV0	S	REAR CABINET 66FW54H	BE					
C 1602	RC-KZ0036CEZZ	S	CERAMIC 330PF 2KV	AB	2	CCABB1101BMV0	S	REAR CABINET 76FW54H						
C 1603	RC-KZ0052CEZZ	S	CERAMIC 1000PF 2KV	AC	Diagram of Cabinet Components									
C 1604	VCFPVC3CA822H	J	FILM PP 8,2NF 50% 1.6KV	AD										
C 1605	VCEAGA1HW335M	S	ELECTR. 3.3MF 20% 50V	AA	1	66FW54H								
C 1612	VCEAGA1EW227M	S	ELECTR. 220MF 20% 25V	AA	1-2	76FW54H								
C 1613	VCEAGA1EW227M	S	ELECTR. 220MF 20% 25V	AA	1-3									
C 1614	VCEAGA1EW227M	S	ELECTR. 220MF 20% 25V	AA	1-4									
C 1615	VCEAGA1EW227M	S	ELECTR. 220MF 20% 25V	AA	1-5									
C 1616	VCEAGA1EW227M	S	ELECTR. 220MF 20% 25V	AA	1-6									
C 1617	VCEAGA1EW227M	S	ELECTR. 220MF 20% 25V	AA	1-7									

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