

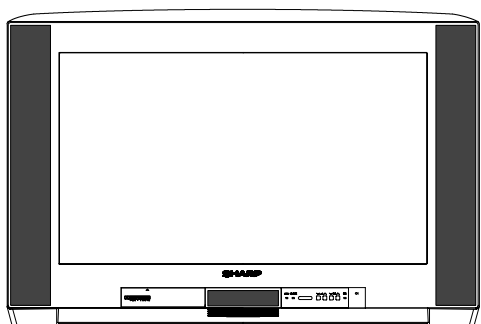
SHARP**SERVICE MANUAL**

SEJB81GF63E00

Issued: 27th July '00

DA-50W CHASSIS

PAL B/G, I / SECAM L/L', B/G, D/K SYSTEM COLOUR TELEVISION

**MODEL 81GF-63E**

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.

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SHARP CORPORATION

This document has been published to be used for after sales service only.

ELECTRICAL SPECIFICATIONS

•Power Input220V-240 Volts AC 50Hz

•Power Consumption

Normal Operating.....92W

Stand-by Operating.....1W

•Audio Power Output Rating

Internal Left Speaker.....10W (MPO)

Internal Right Speaker.....10W (MPO)

Internal Centre Speaker.....10W (MPO)

Speakers

Left / Right.....8 Ω 12W, 6 x 12cm

Centre.....7 Ω 12W, 6 x 12cm

Convergence.....Self Converging System

Focus.....Bi-Potential Electrostatic

Sweep Deflection.....Magnetic

•White Level

Set brightness control to get total picture tube cathode current of 600 milliamperes 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=0.300

•Intermediate Frequencies

L'.....33.9MHz

L, B/G, D/K, I.....38.9MHz

•Sound Carrier Trap

L'.....40.4MHz

L, D/K.....32.4MHz

B/G.....33.4MHz

I.....32.9MHz

•Adjacent Sound Carrier Trap

L'.....32.4MHz

L, D/K, B/G.....40.4MHz

I.....40.9MHz

•Adjacent Picture Carrier Trap

L'.....41.9MHz

L, D/K, I.....30.9MHz

B/G.....31.9MHz

•Aerial Input Impedance

VHF/UHF.....75 ohm Unbalanced

•Tuning Ranges.....45.75MHz thru 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.

IMPORTANT SERVICE NOTES

Maintenance and repair of this receiver should be done 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 10K ohm resistor in series with an insulated wire (such as test probe) between picture tube ground tag and high voltage lead. (AC line cord should be disconnected from AC outlet).

1. Picture tube 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 are servicing may produce potentially hazardous radiation with prolonged exposure at close range, the following precautions should be observed:

1. When repairing the circuit, be sure not to increase the high voltage to more than 33 KV, (at beam 1600 μ A) for the set.
2. To keep the set in a normal operation, be sure to make it function on 32KV \pm 1KV (at beam 1600 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 high voltage fluctuates as a 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 checks 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 lodged between the chassis and other metal parts in the receiver.
2. Inspect all protective devices such as non-metallic control knobs, insulating fish papers, cabinet backs, adjustment and compartment covers or shields, insulation resistor-capacity networks, mechanical insulators etc.

SERVICE ADJUSTMENTS

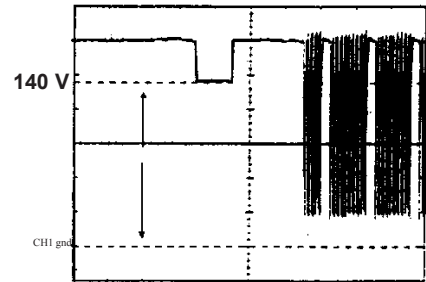
All the adjustments required for this chassis will be done in Service Mode, except G2 and Focus.

• 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 140V on the sensor pulse as in the drawing:

NOTE:

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

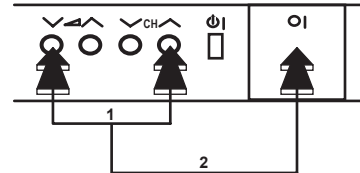


• SERVICE MODE FUNCTION

This mode function is provided to assist with the settings of those adjustments 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 an 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] | -GREEN GAIN. |
| -HORIZONTAL SHIFT. | -GREEN CUT OFF. |
| -EAST WEST WIDTH. | -BLUE CUT OFF. |
| -PIN PHASE. | -ALTER NVM PAGE / ALTER NVM POSITION / ALTER NVM VALUE. |
| -PIN AMP. | -TELETEXT MIX MODE CONTRAST. |
| -UPPER CORNER CORRECTION. | -TELETEXT CONTRAST. |
| -LOWER CORNER CORRECTION. | -OSD CONTRAST. |
| -VERTICAL LINEARITY. | -DVCO ADJUSTMENT (Only PAL). |
| -VERTICAL AMPLITUDE. | -DVCO ADJUSTMENT (Only NTSC). |
| -S CORRECTION. | -AGC ADJUSTMENT. |
| -VERTICAL SHIFT. | -AFT ADJUSTMENT. |
| -RED GAIN. | -OPC VALUE (Not Available in this model). |
| | AUTOINSTALLATION ON/OFF. |

To exit service mode, press main switch of OFF.

Adjustment menu is as follows:

All adjustments for Geometries are based 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.

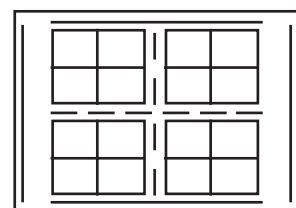


Fig.1

1- HORIZONTAL SHIFT

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

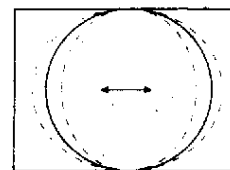


Fig. 2

2- E-W WIDTH

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

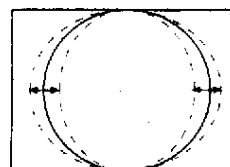


Fig. 3

3- PIN PHASE

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

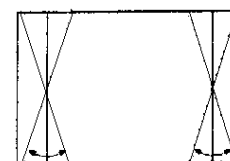


Fig. 4

4- PIN AMPLITUDE

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

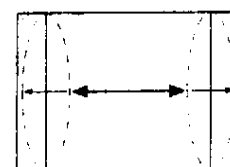


Fig. 5

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

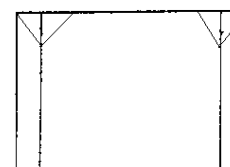


Fig. 6

6- LOWER CORNER CORRECTION

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

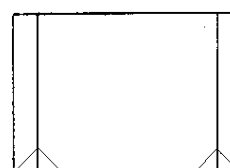


Fig. 7

7- VERTICAL LINEARITY

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

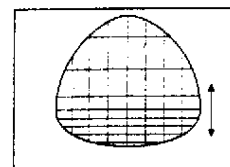


Fig. 8

8- VERTICAL AMPLITUDE

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

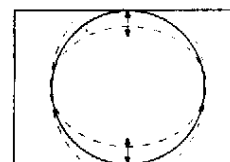


Fig. 9

9- S-CORRECTION

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

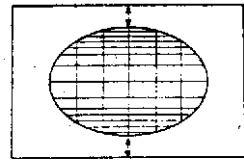


Fig. 10

10- VERTICAL SHIFT

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

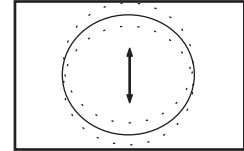


Fig. 11

COLOUR ADJUSTMENT

The following adjustments are only required when Picture Tube, IC801 or IC1801 are changed:

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

- Adjust G2.
- Tune a white card.
- Adjust colour to minimum.
- Position colourimeter in the center of screen.
- Adjust brightness and contrast to obtain a luminance of ≈ 20 NITS.
- Operate in Service Mode and select location RED CUT OFF / GREEN CUT OFF / BLUE CUT OFF, to obtain colour coordinates:
 $X=0.290 \pm 0.015$ $Y=0.300 \pm 0.015$

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.

2. RED GAIN / GREEN GAIN / BLUE BAIN

- Using brightness and contrast buttons, select a luminance of ≈ 120 NITS.
- Operate in Service Mode and select location RED GAIN / GREEN GAIN / BLUE GAIN, to obtain colour coordinates:
 $X=0.290 \pm 0.015$ $Y=0.300 \pm 0.015$

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.

- Exit Service Mode and check colour coordinates «X» and «Y» at 20 and 120 NITS. It may be necessary to repeat procedure 1 and 2 of COLOUR ADJUSTMENT.

ACCESS TO NVM

Press CH \wedge to move in the following sequence:

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

\triangle 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)

- Receive Philips pattern signal.
- When Stand-by button is pressed (Remote Control Unit), start

DVCO ADJUSTMENT (NTSC)

Adjust 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

- Connect Test Pattern signal to antenna terminal.
- Press main switch to OFF.
- Press volume-down and channel-up buttons and main switch to ON simultaneously.
- «Service Software Vxx.xx» appears on screen.
- Press main switch to OFF.

AGC ADJUSTMENT

- Tune the TV into CH10 (pattern generator).
- Adjust the signal strength to 57dB μ V
- Press the stand-by button on the Remote Control (red button).
The TV will perform automatically the AGC.

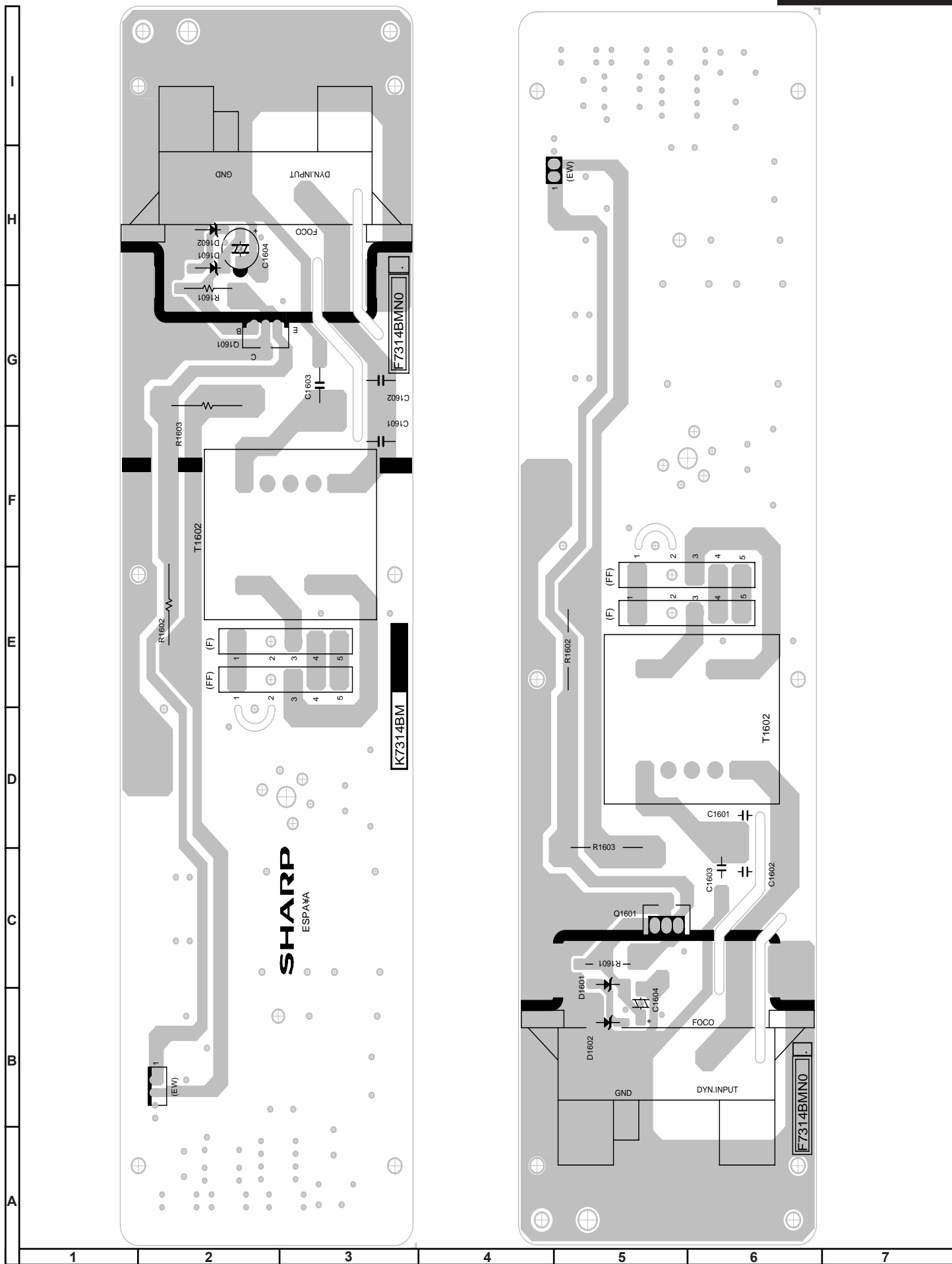
AFT ADJUSTMENT PAL BG -I, SECAM L

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

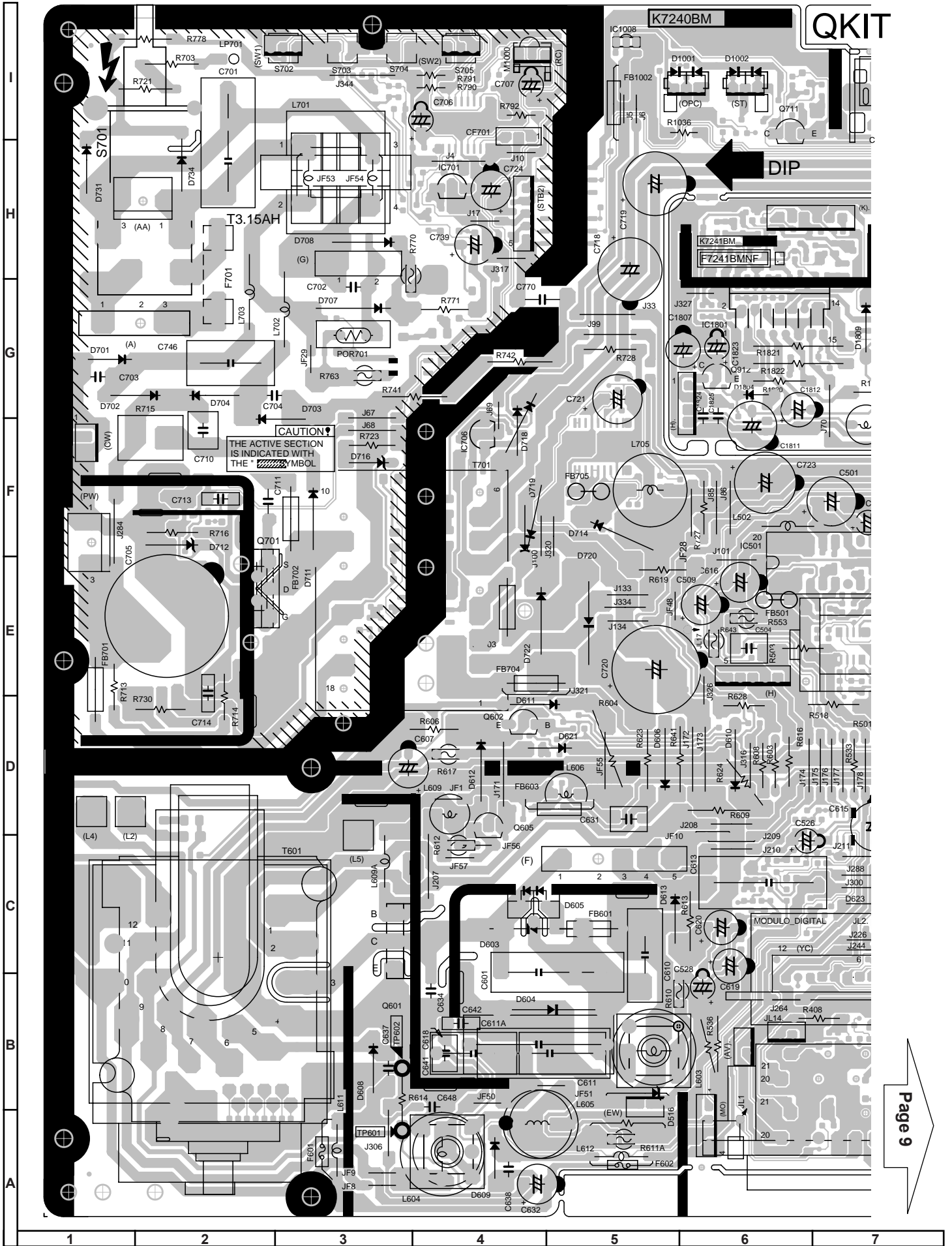
AFT ADJUSTMENT SECAM L'

- Tune the TV into CH04 (pattern generator).
- Press the stand-by button on the Remote Control (red button).
The TV will perform automatically the AFT.

DYNAMIC FOCUS UNIT PRINTED WIRING BOARDS.

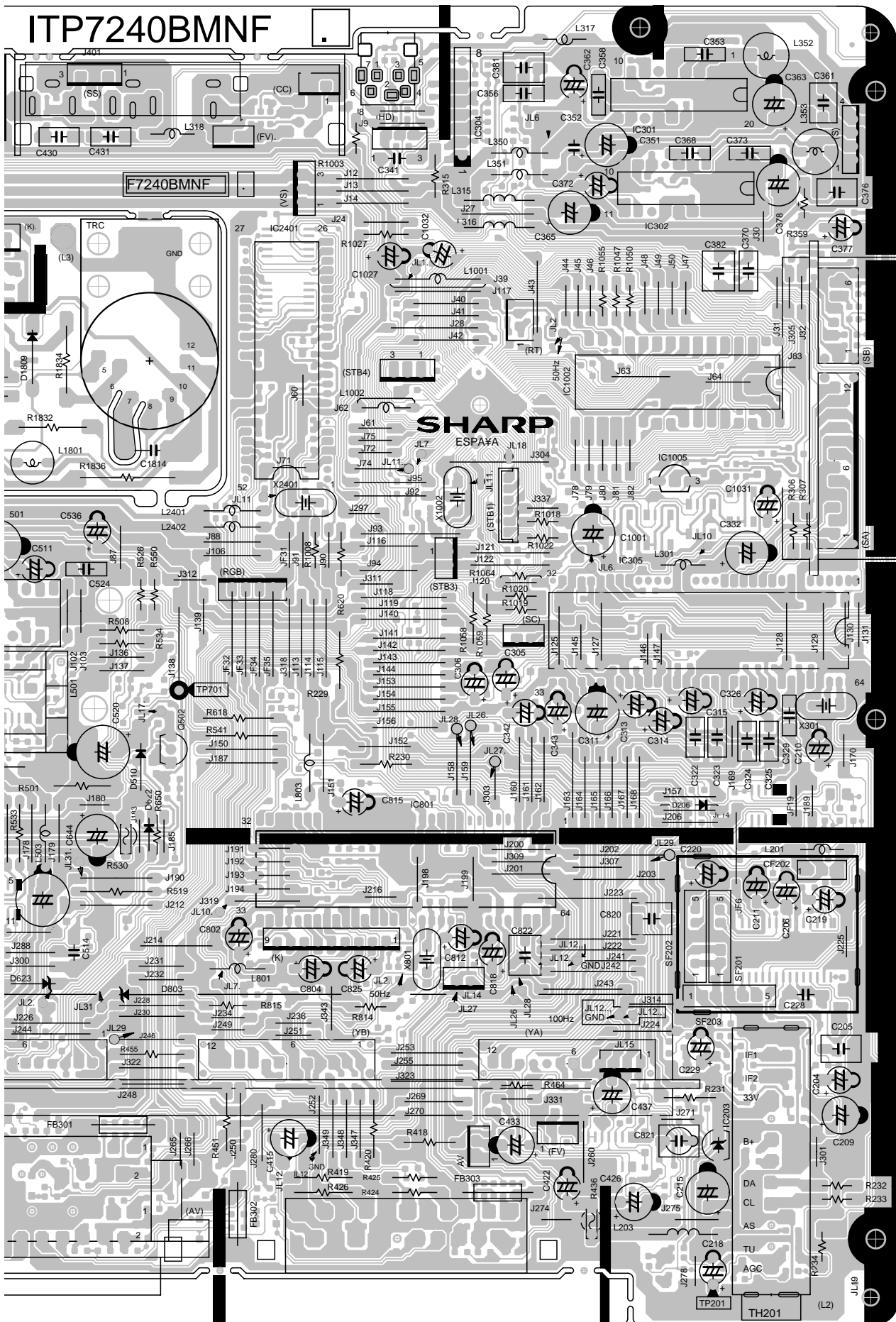


MOTHER UNIT PRINTED WIRING BOARD. Component side.



MOTHER UNIT PRINTED WIRING BOARD. Component side.

ITP7240BMNF



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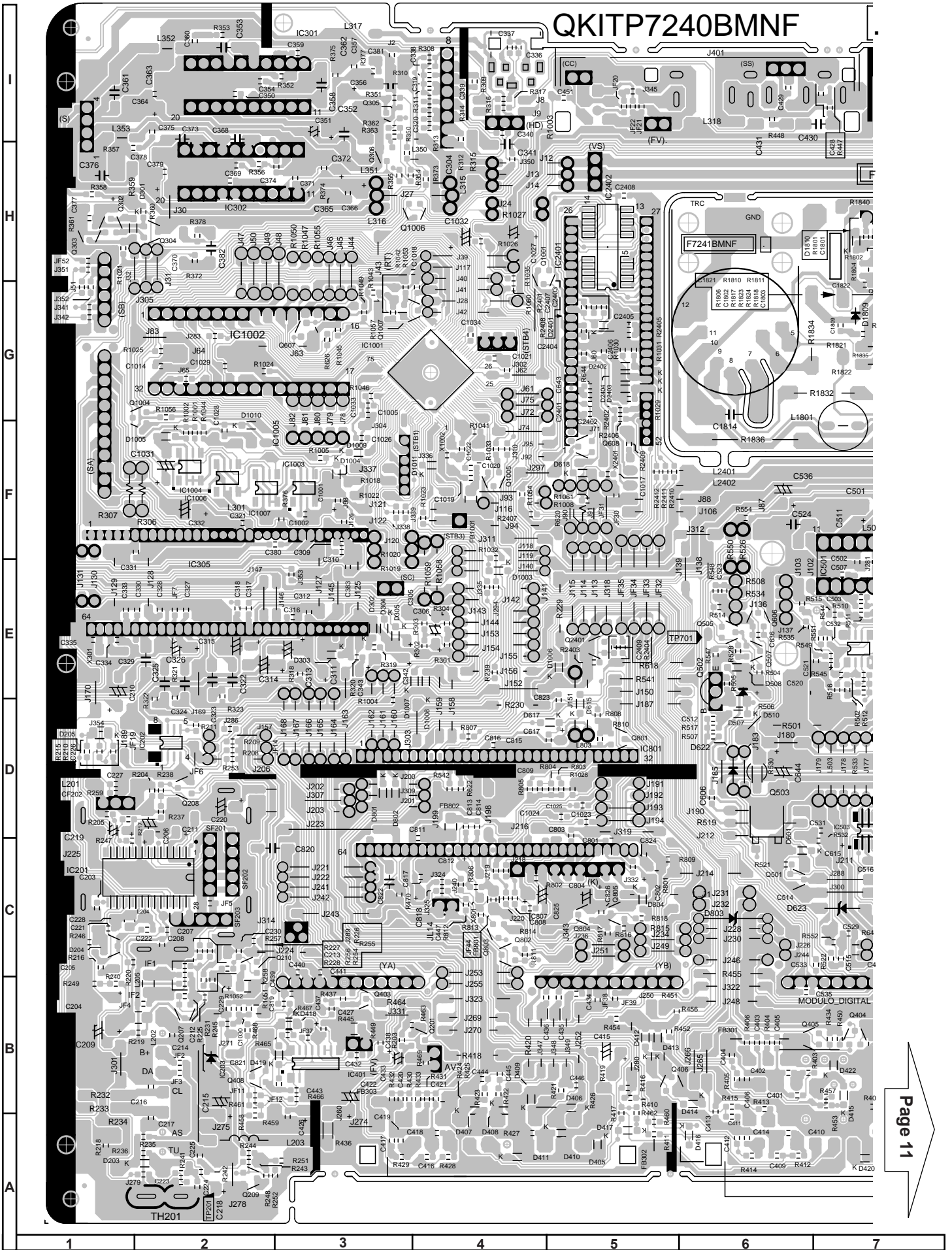
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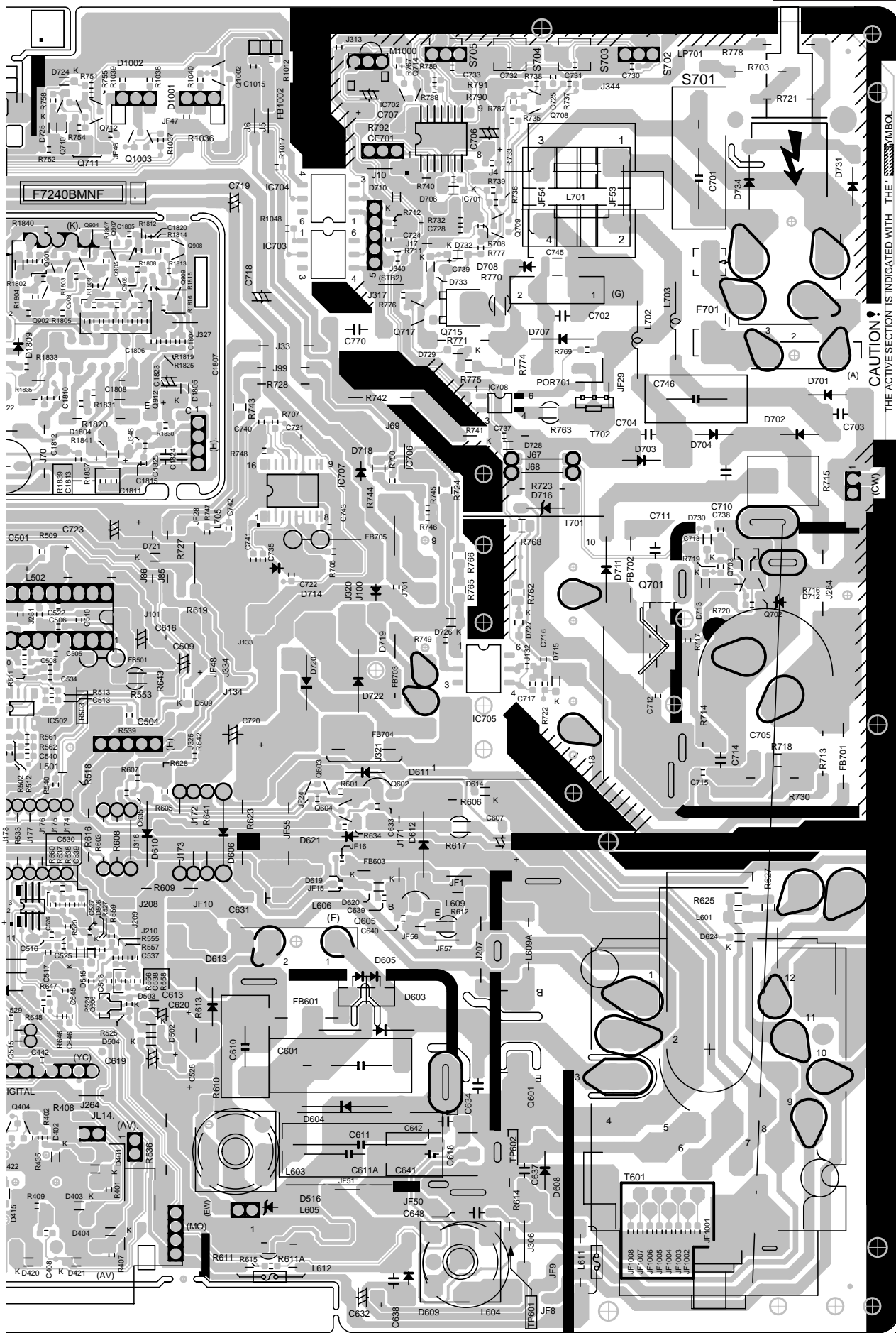
14

MOTHER UNIT PRINTED WIRING BOARD. Copper side.



QKITP7240BMNF

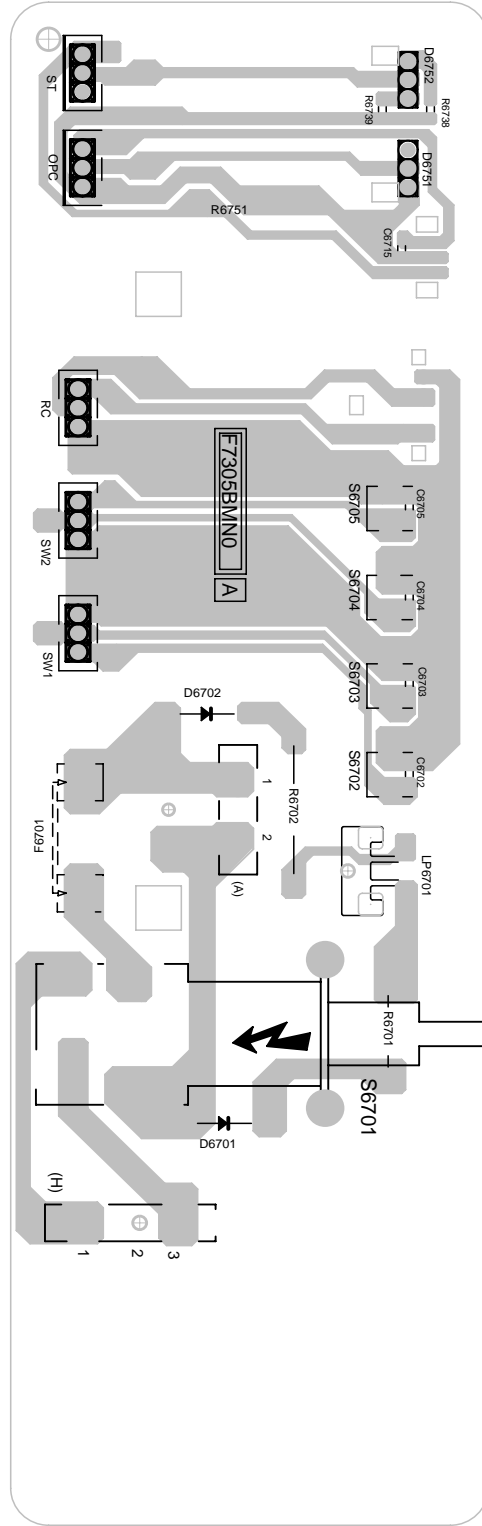
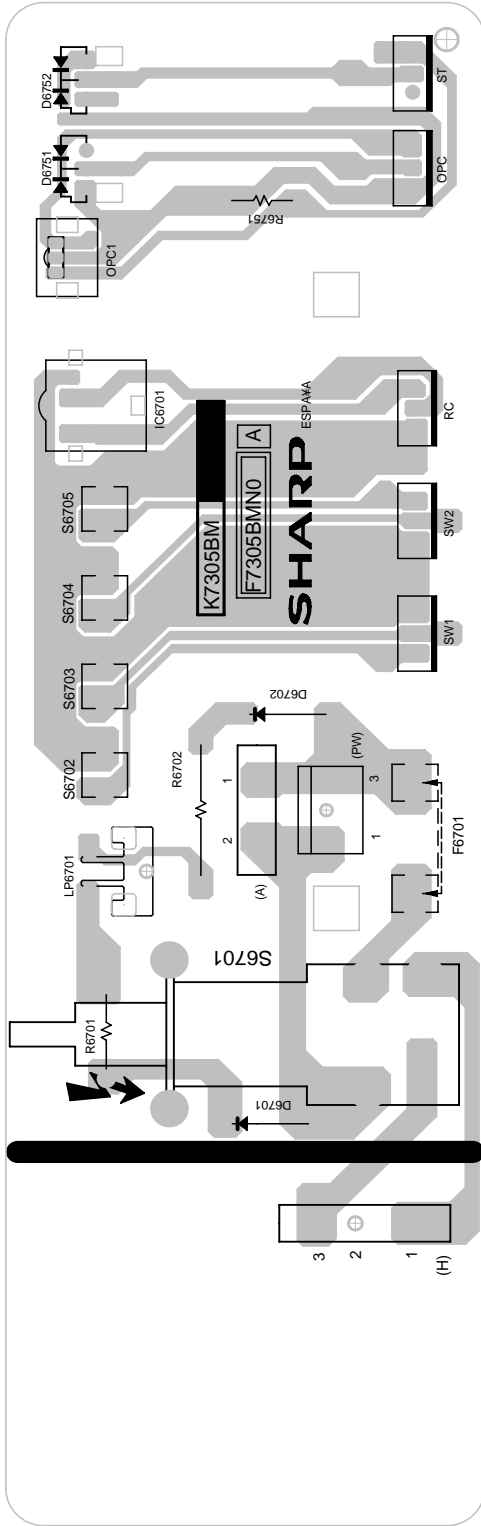
MOTHER UNIT PRINTED WIRING BOARD. Copper side.



Page 10

CAUTION! THE ACTIVE SECTION IS INDICATED WITH THE "MBOL"

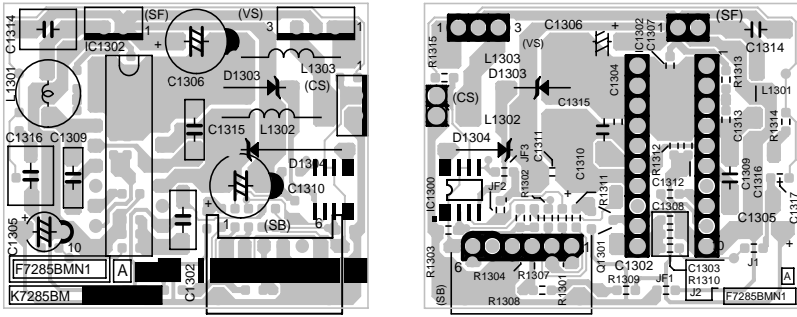
POWER SWITCH UNIT PRINTED WIRING BOARDS.



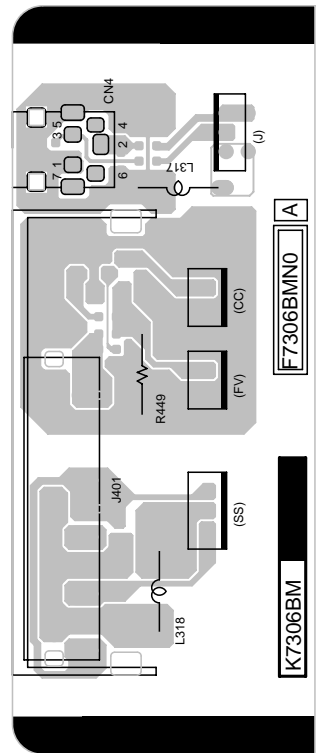
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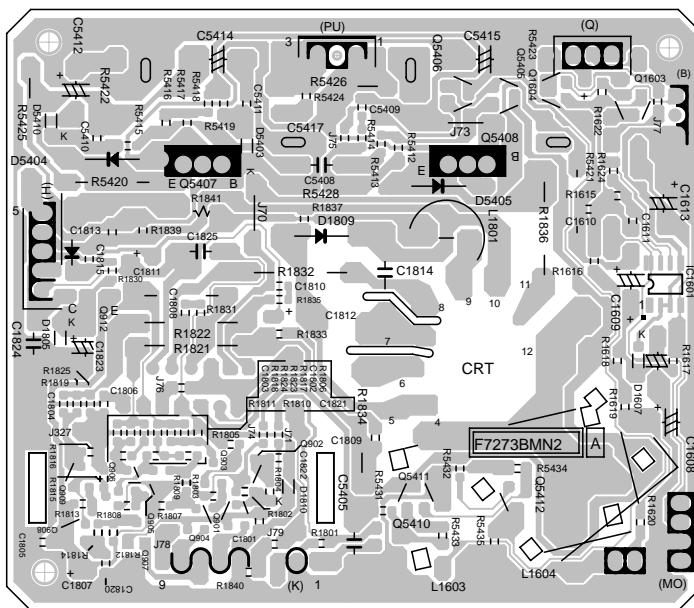
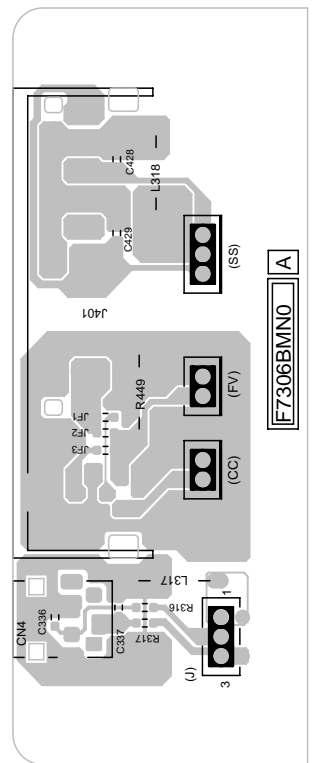
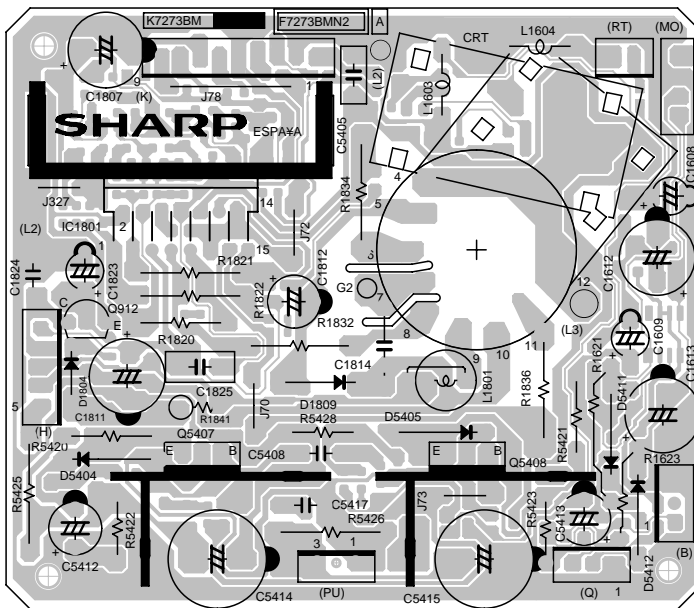
CENTRAL SPEAKER UNIT PRINTED WIRING BOARDS.



FRONT A/V UNIT PRINTED WIRING BOARDS.



CRT MODULE UNIT PRINTED WIRING BOARDS.



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1 2 3 4 5 6 7

DESCRIPTION OF SCHEMATIC DIAGRAM

SAFETY NOTE:

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

IMPOTANT SAFETY NOTE:

PARTS MARKED WITH « Δ » () ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMAN-CE OF THE SET.

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.

NOTE:

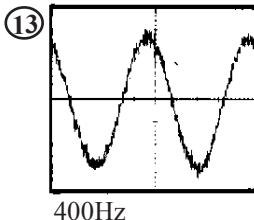
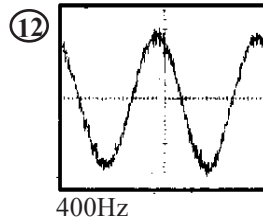
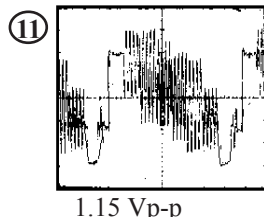
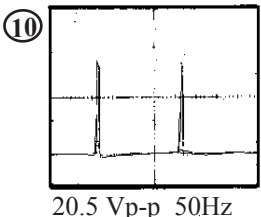
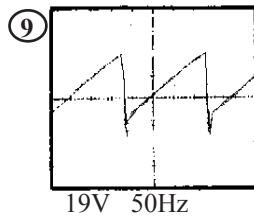
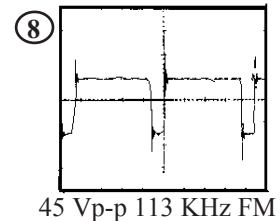
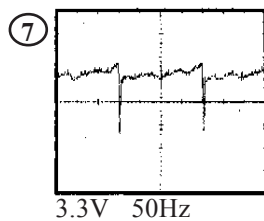
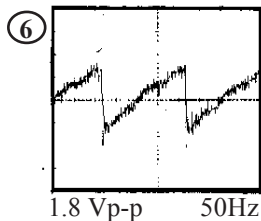
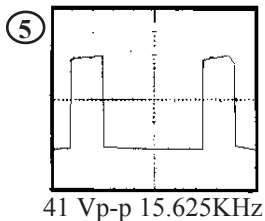
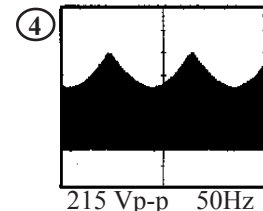
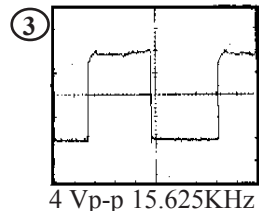
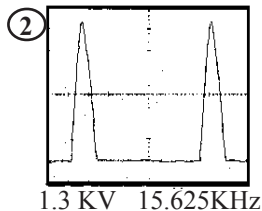
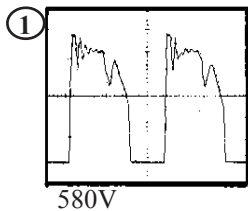
1. The unit of resistance «ohm» is omitted (K=1000 ohms. M= Megaohm).
2. All resistors are 1/8 watt. unless otherwise noted.
3. All capacitors are μF , unless otherwise noted (P= $\mu\mu\text{F}$).
4. The capacitor with Part No. RC-FZ9XXXBMNJ is designed to with stand 63V.

CAUTION

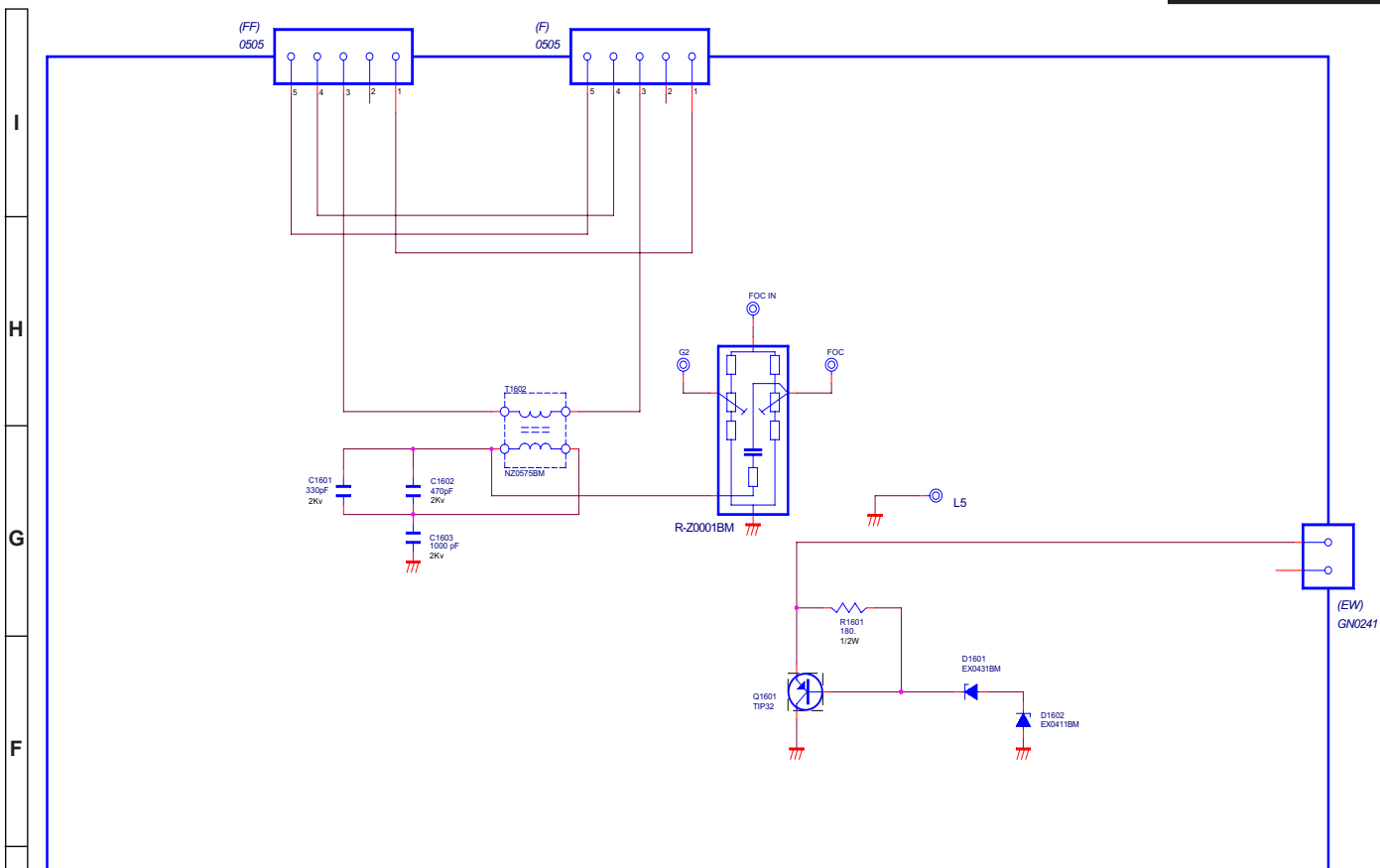
This circuit diagram is original one, therefore there may be light difference from yours.

WAVEFORM MEASUREMENT CONDITION:

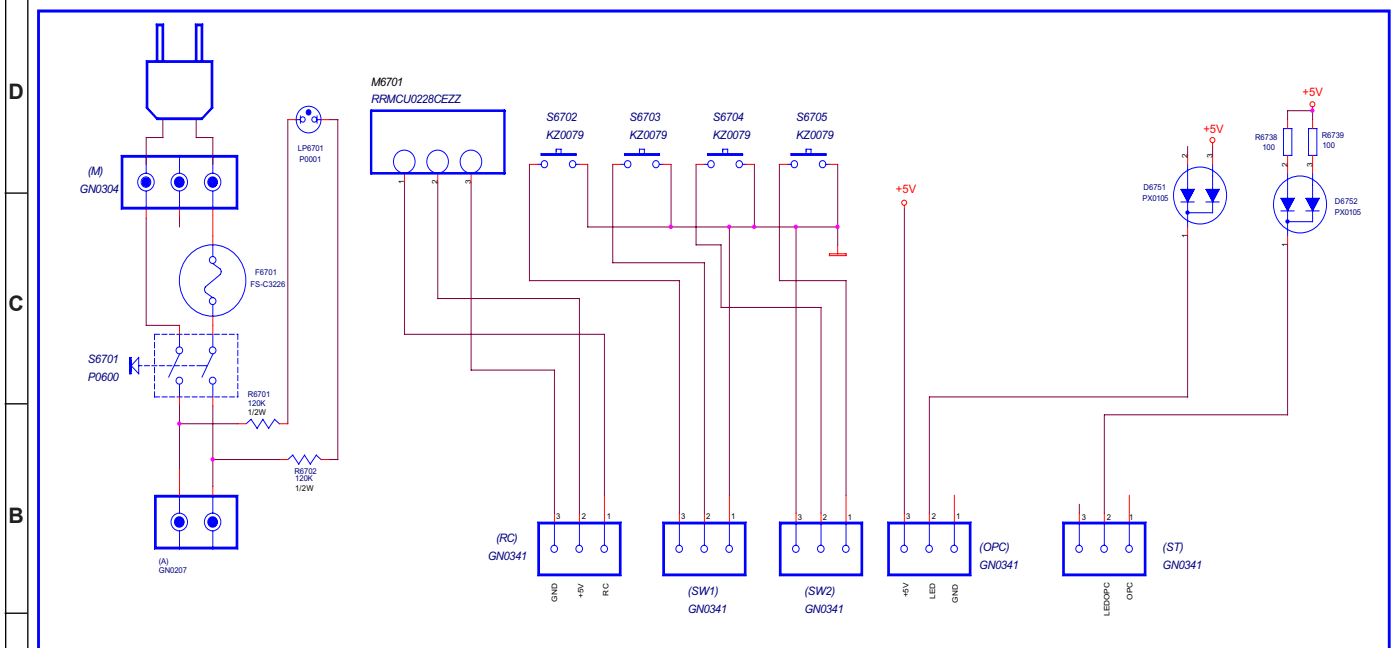
Colour bar genetator signal of 70 dB from RF input.

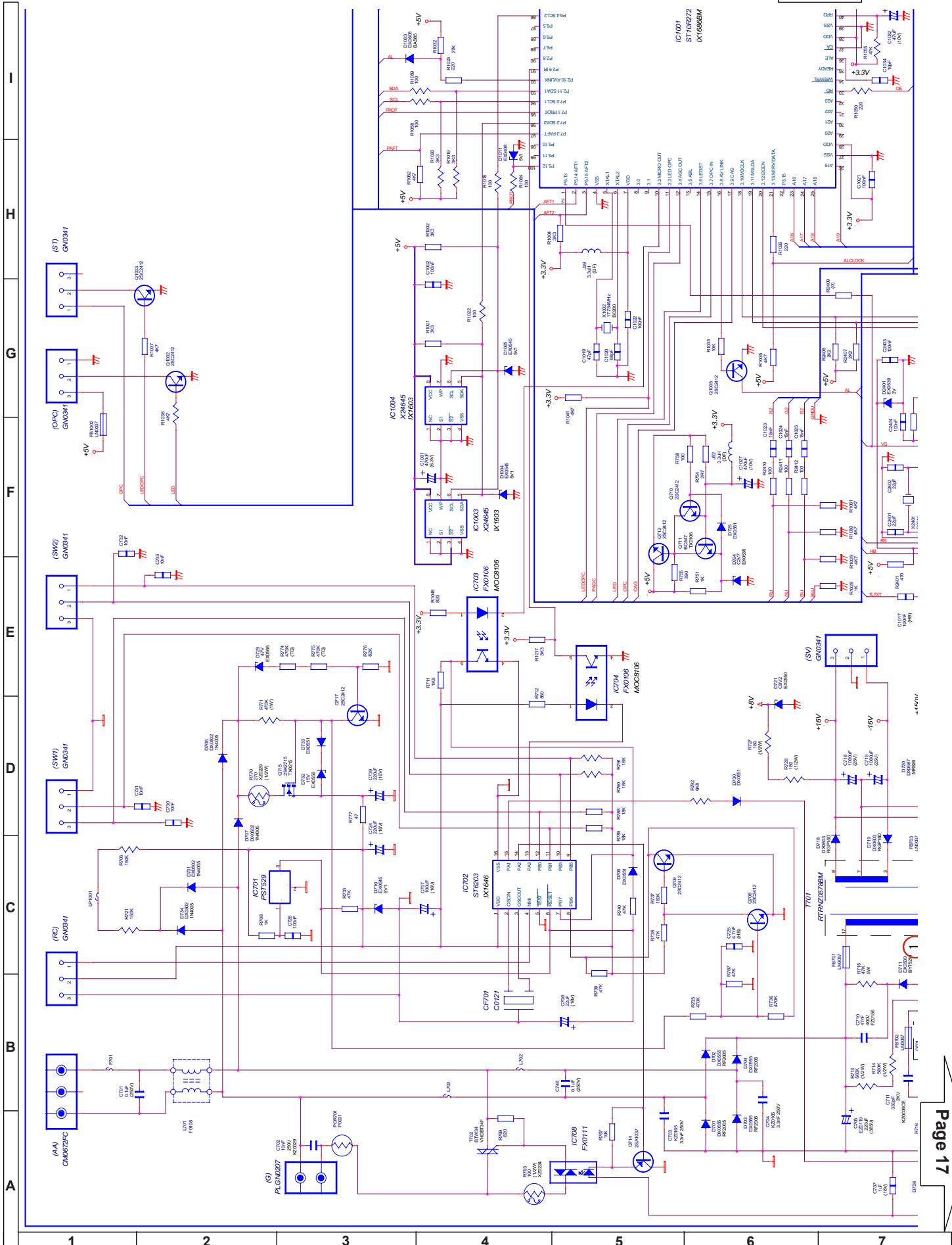


DINAMIC FOCUS UNIT SCHEMATIC DIAGRAM.

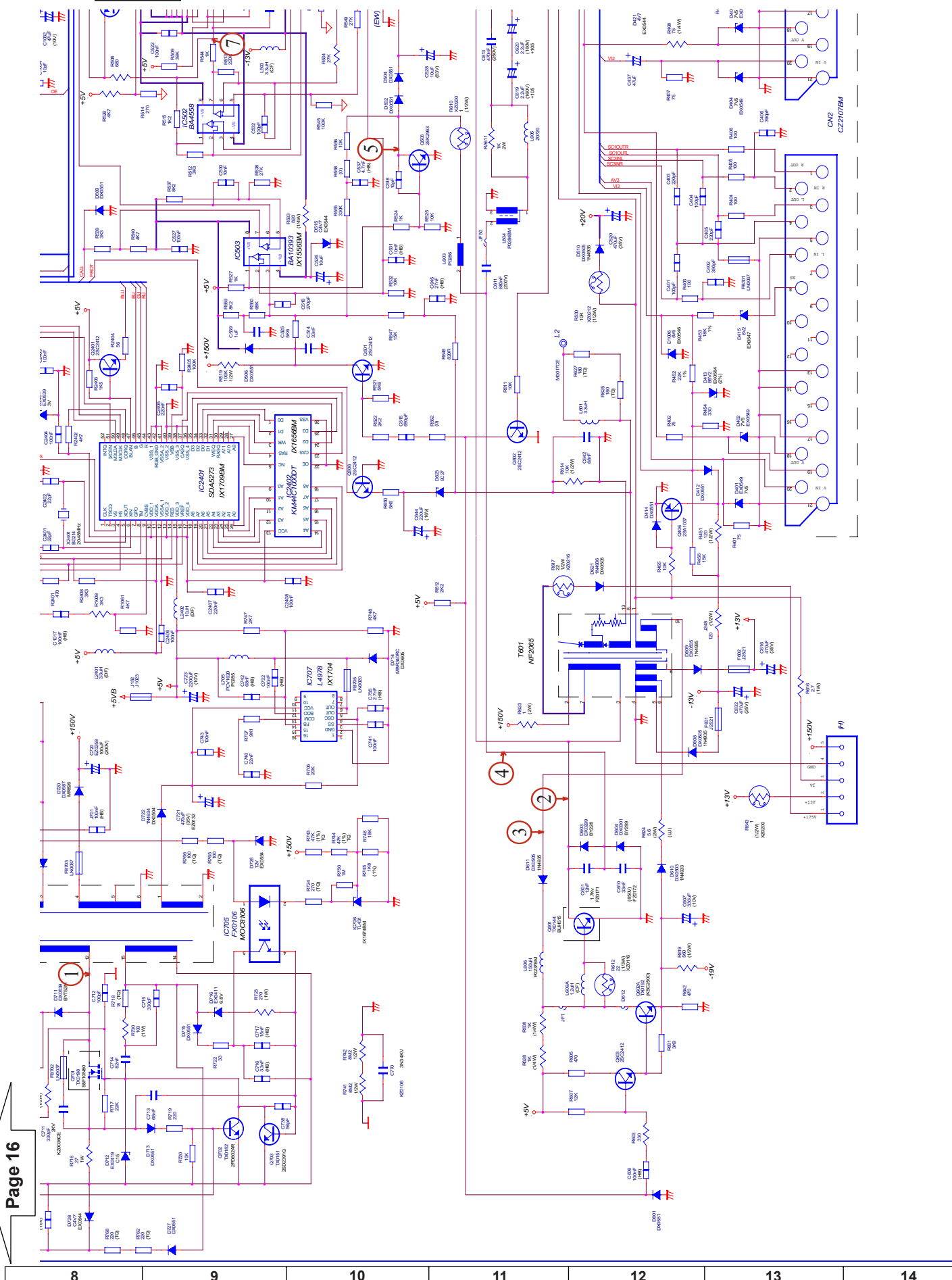


POWER SWITCH UNIT SCHEMATIC DIAGRAM.

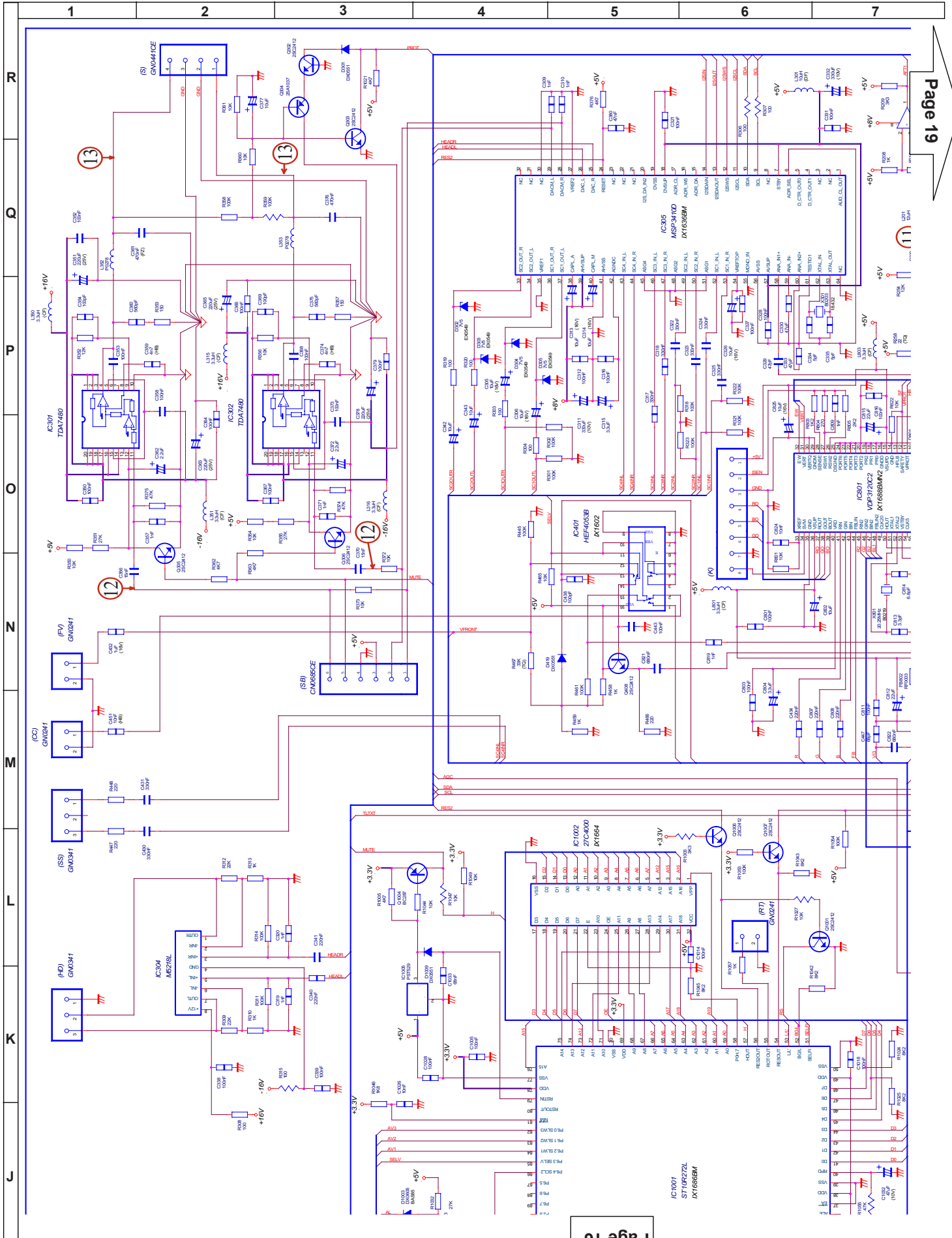




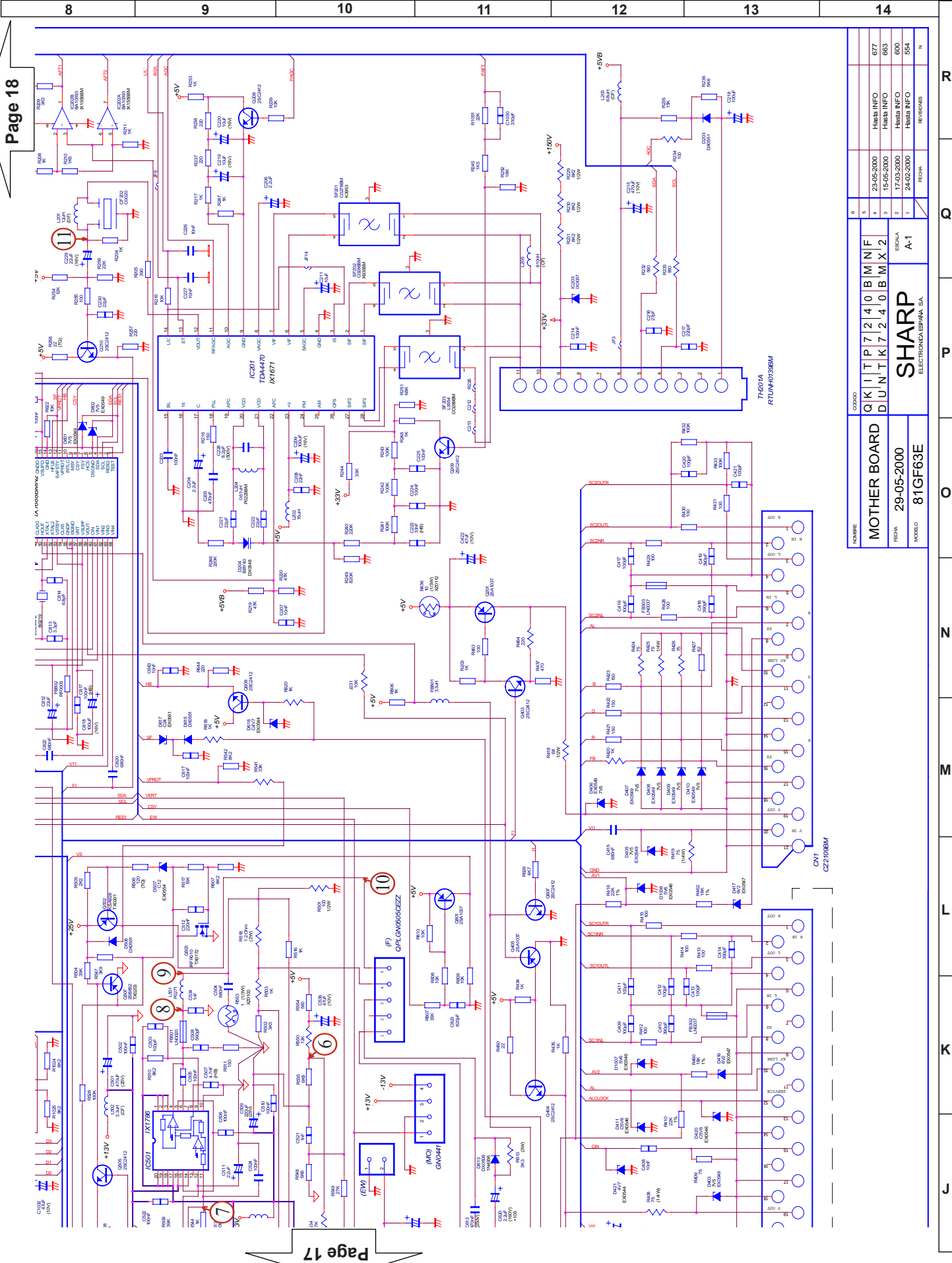
MOTHER UNIT SCHEMATIC DIAGRAM (00 Version).



MOTHER UNIT SCHEMATIC DIAGRAM (00 Version).



MOTHER UNTI SCHEMATIC DIAGRAM (00 Version).



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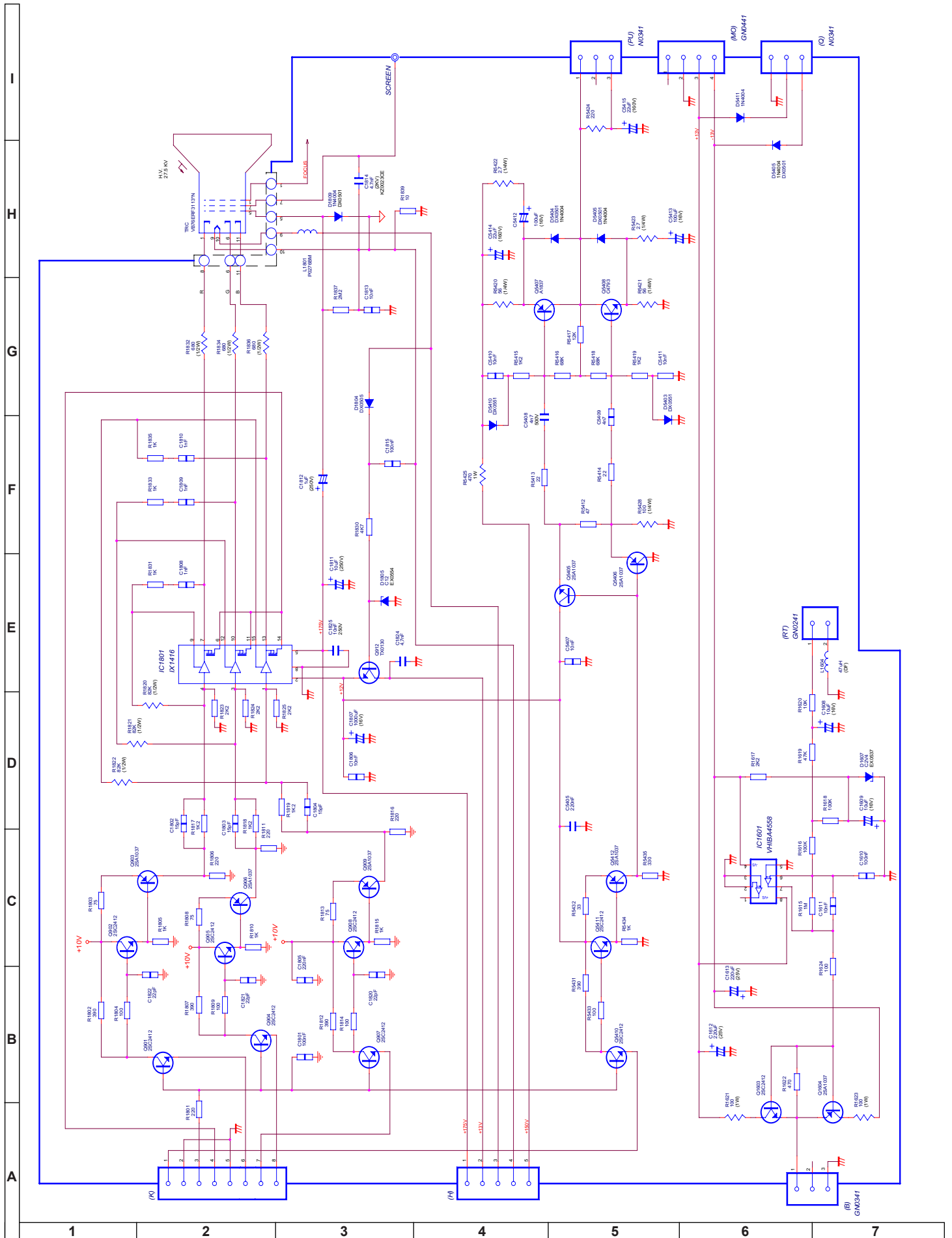
MOTHER BOARD		QIKITP72410BMINIF		677	
DIUNTK7240BMX2		ESCALA		663	
FECHA: 29-05-2000		ESCALA		600	
MODELO: 81GF63E		FECHA:		554	
		FECHA:		N	

SHARP

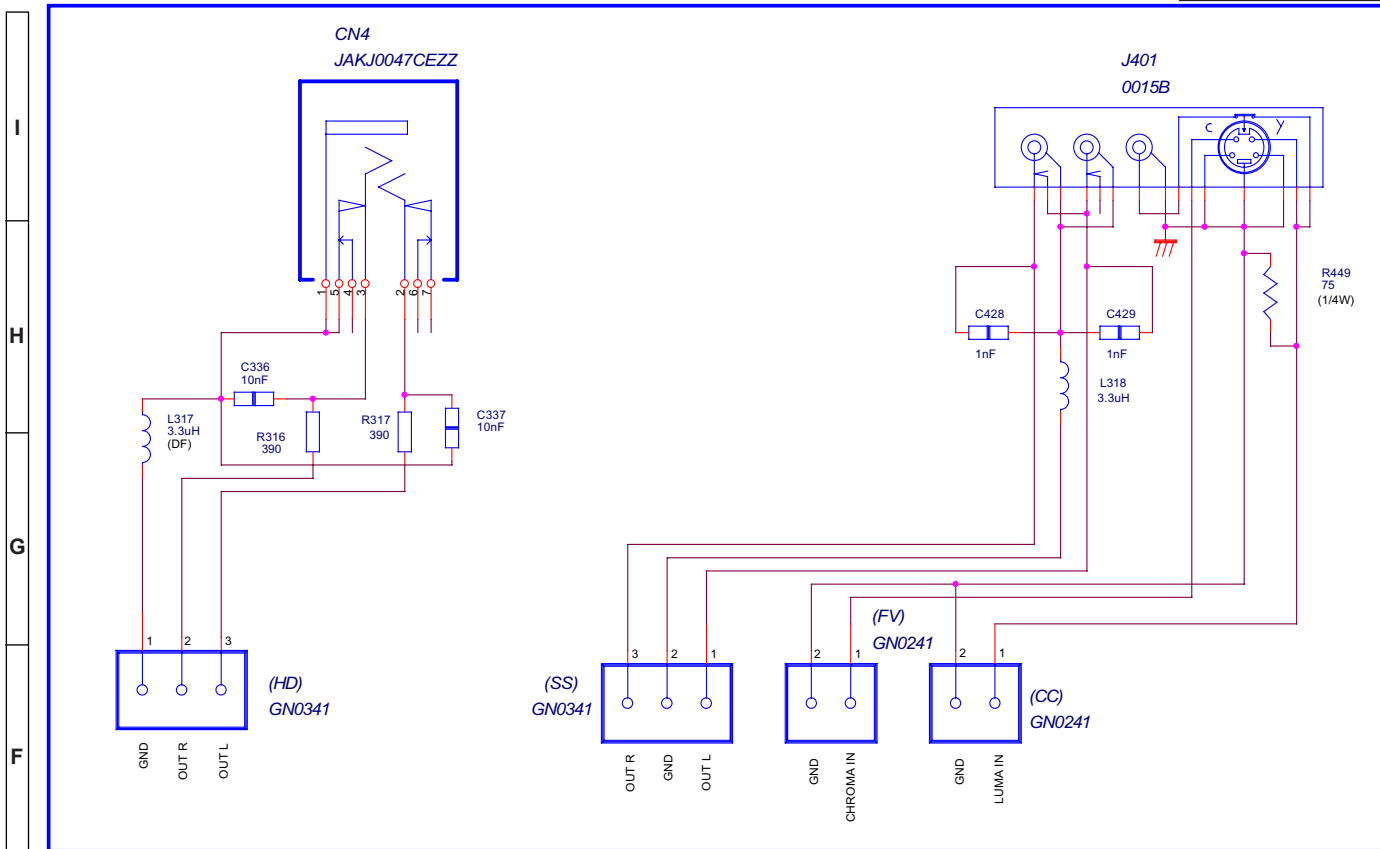
ELECTRONICA ESPAÑA S.A.

J K L M N O P Q R

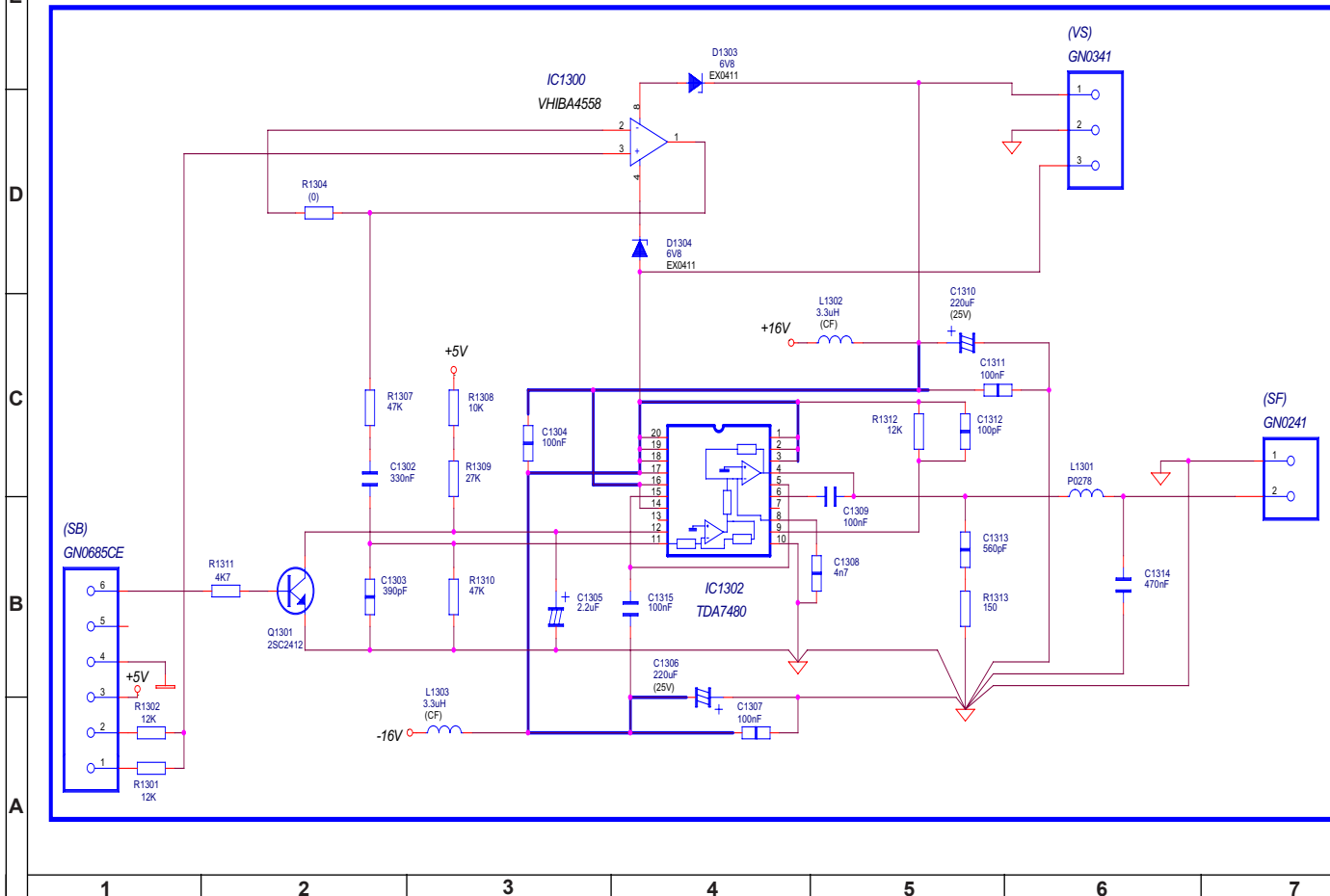
DINAMIC FOCUS UNIT SCHEMATIC DIAGRAM.



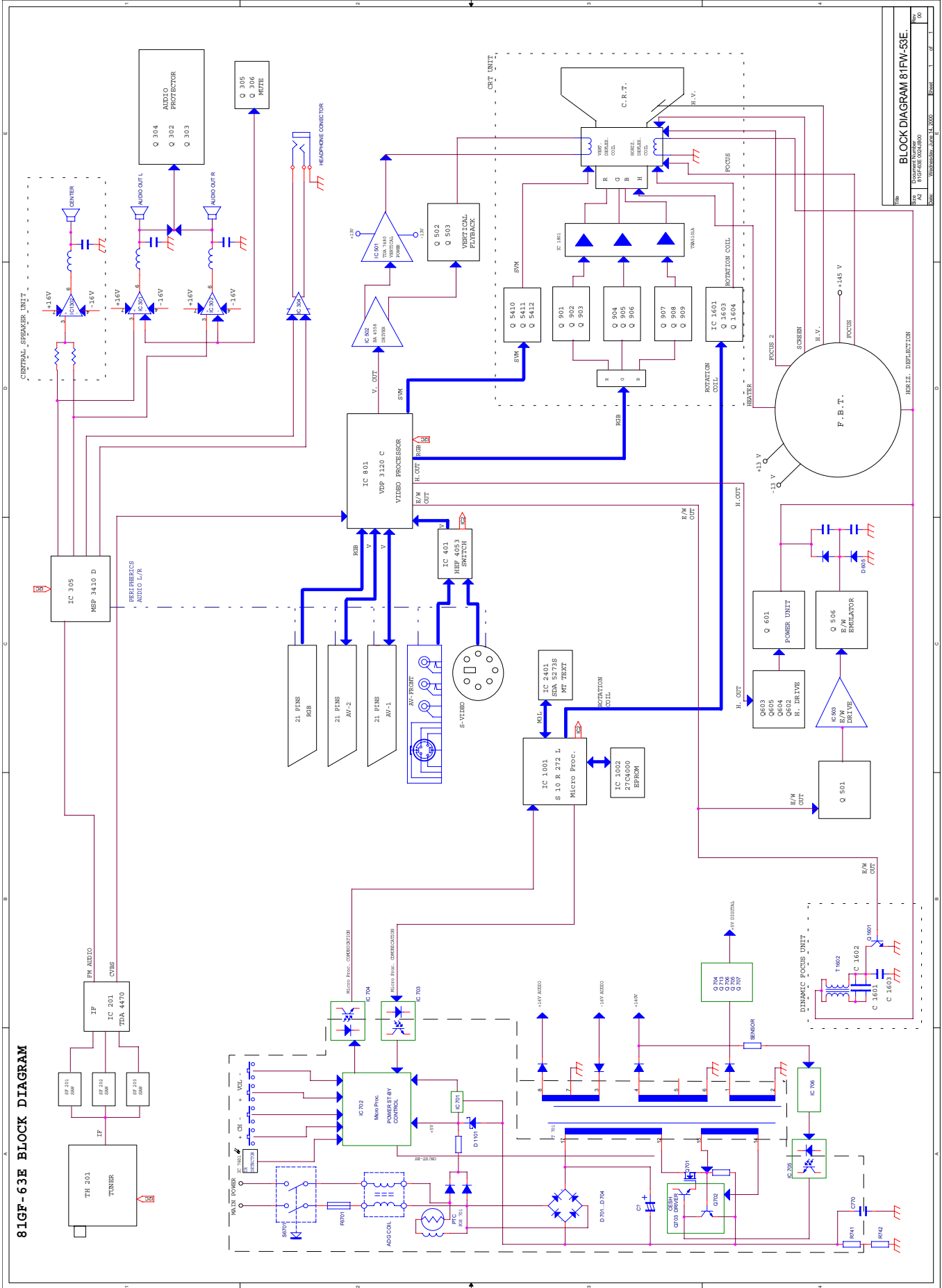
FRONT AV UNIT SCHEMATIC DIAGRAM.



CENTRAL SPEAKER UNIT SCHEMATIC DIAGRAM.

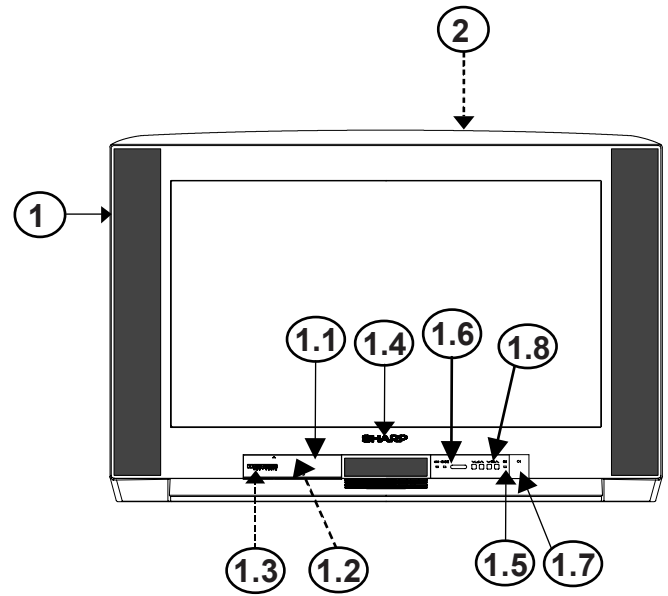


BLOCK DIAGRAM

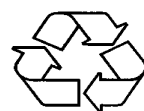


	PARTS	DESCRIPTION	*	SN CODE	EX CODE
R 1839	VRS-TV1JD100J	2125 10 OHM 5% 1/10W SMD	S	AA	AA
R 1840	VRS-TV1JD822J	2125 8,2KOHM 5% 1/10W SMD	S	AA	AA
R 1841	VRD-RA2BE220J	RES 22 OHM 5% 1/8W	S	AA	AA
R 5412	VRS-TV1JD470J	2125 47 OHM 5% 1/10W SMD	S	AA	AA
R 5413	VRS-TV1JD220J	2125 22 OHM 5% 1/10W SMD	S	AA	AA
R 5414	VRS-TV1JD220J	2125 22 OHM 5% 1/10W SMD	S	AA	AA
R 5415	VRS-TV1JD122J	2125 1,2KOHM 5% 1/10W SMD	S	AA	AA
R 5416	VRS-TV1JD683J	2125 68KOHM 5% 1/10W SMD	S	AA	AA
R 5417	VRS-TV1JD123J	2125 12KOHM 5% 1/10W SMD	S	AA	AA
R 5418	VRS-TV1JD683J	2125 68KOHM 5% 1/10W SMD	S	AA	AA
R 5419	VRS-TV1JD122J	2125 1,2KOHM 5% 1/10W SMD	S	AA	AA
R 5420	VRD-RA2EE560J	RES 56 OHM 5% 1/4W	S	AA	AA
R 5421	VRD-RA2EE560J	RES 56 OHM 5% 1/4W	S	AA	AA
R 5422	VRD-RA2EE2R7J	RES 2,7 OHM 5% 1/4W	S	AA	AA
R 5423	VRD-RA2EE2R7J	RES 2,7 OHM 5% 1/4W	S	AA	AA
R 5425	VRS-VV3AB471J	MET OX RES 470 OHM 5% 1W	S	AA	AA
R 5426	VRS-VV3DB221J	MET FILM R 220 OHM 5% 2W	S	AA	AB
R 5428	VRD-RA2EE101J	RES 100 OHM 5% 1/4W	S	AA	AA
R 5431	VRS-TV1JD391J	2125 390 OHM 5% 1/10W SMD	S	AA	AA
R 5432	VRS-TV1JD330J	2125 33 OHM 5% 1/10W SMD	S	AA	AA
R 5433	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
R 5434	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
R 5435	VRS-TV1JD331J	2125 330 OHM 5% 1/10W SMD	S	AA	AA
MISCELLANEOUS PARTS					
(B)	QPLGN0341CEZZ	PLUG	S	AA	AA
(H)	QPLGN0541CEZZ	PLUG	S	AA	AA
(K)	QPLGN0841CEZZ	PLUG	S	AA	AB
(PU)	QPLGN0341CEZZ	PLUG	S	AA	AA
(Q)	QPLGN0341CEZZ	PLUG	S	AA	AA
(RT0000)	QPLGN0241CEZZ	PLUG	S	AA	AA
J 0071	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0074	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0075	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0076	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0077	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0079	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
L 0003	QTIPM0017CEFM	TIP	S	AA	AA
L 0005	QTIPM0017CEFM	TIP	S	AA	AA
△ SC 1801	QSOCV0936CEZZ	CRT SOCKET	S	AF	AM
PWB-F CENTRAL SPEAKER UNIT					
INTEGRATED CIRCUITS					
IC 1300	VHIBA4558F-1	IC BA4558F-E2 ROHM OP-AMP	S	AA	AC
IC 1302	VHITDA7480-1	IC TDA7480 THOMSON	S	AF	AK
TRANSISTORS					
Q 1301	VS2SC2412KQ-1	TRT 2SC2412 ROHM	S	AA	AA
DIODES					
D 1303	RH-EX0411BMZZ	ZENER DIODE BZX79C6V8	S	AA	AA
D 1304	RH-EX0411BMZZ	ZENER DIODE BZX79C6V8	S	AA	AA
COILS					
L 1301	RCILP0278BMZZ	COIL A823LY-680K TOKO	S	AA	AD
L 1302	VP-CF3R3K0000	PEAK COIL 3.3UH 10%	S	AB	AB
L 1303	VP-CF3R3K0000	PEAK COIL 3.3UH 10%	S	AB	AB
CAPACITORS					
C 1302	RC-FZ4334BMNJ	POL FILM C 330nF 50V 5% ECQ-V PANASONIC	S	AA	AB
C 1303	VCKYTV1HB102K	CERAM C 1nF 50V 2125SMD	S	AA	AA
C 1304	VCKYTV1HF104Z	CERAM C 100nF 50V 2125SMD	S	AA	AA
C 1305	VCEAGA1HW225M	ELEC C 2,2UF 20% 50V	S	AA	AB
C 1306	VCEAGA1EW227M	ELEC C 220UF 20% 25V	S	AA	AA
C 1307	VCKYTV1HF104Z	CERAM C 100nF 50V 2125SMD	S	AA	AA
C 1308	VCKYTV1HB472K	CERAM C 4,7nF 50V 2125SMD	S	AA	AA
C 1309	RC-FZ4104BMNJ	POL FILM C 100nF 50V 5% ECQ-V PANASONIC	S	AA	AA
C 1310	VCEAGA1EW227M	ELEC C 220UF 20% 25V	S	AA	AA
C 1311	VCKYTV1HF104Z	CERAM C 100nF 50V 2125SMD	S	AA	AA
C 1312	VCCCTV1HH101J	CERAM C 100PF 50V 2125SMD	S	AA	AA
C 1313	VCCCTV1HH561J	CERAM C 560PF 50V 2125SMD	S	AA	AA
C 1314	RC-FZ4474BMNJ	POL FILM C 470nF 50V 5% ECQ-V PANASONIC	S	AA	AC
C 1315	RC-FZ4104BMNJ	POL FILM C 100nF 50V 5% ECQ-V PANASONIC	S	AA	AA

	PARTS	DESCRIPTION	*	SN CODE	EX CODE
RESISTORS					
R 1301	VRS-TV1JD123J	2125 12KOHM 5% 1/10W SMD	S	AA	AA
R 1302	VRS-TV1JD123J	2125 12KOHM 5% 1/10W SMD	S	AA	AA
R 1304	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
R 1307	VRS-TV1JD153J	2125 15KOHM 5% 1/10W SMD	S	AA	AA
R 1308	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
R 1309	VRS-TV1JD273J	2125 27KOHM 5% 1/10W SMD	S	AA	AA
R 1310	VRS-TV1JD473J	2125 47KOHM 5% 1/10W SMD	S	AA	AA
R 1311	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
R 1312	VRS-TV1JD123J	2125 12KOHM 5% 1/10W SMD	S	AA	AA
R 1313	VRS-TV1JD151J	2125 150 OHM 5% 1/10W SMD	S	AA	AA
MISCELLANEOUS PARTS					
(SB)	QPLGN0685CEZZ	PLUG	S	AA	AB
(SF)	QPLGN0241CEZZ	PLUG	S	AA	AA
(VS)	QPLGN0341CEZZ	PLUG	S	AA	AA
JF 0001	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
MISCELLANEOUS PARTS					
△	QACCZ2100BMSA	AC CORD	S	AH	AR
	RRMCG1065BMSA	REMOTE CONTROLLER	S	AQ	AX
	VSP1206PB437A	SPEAKER 12W 7 OHM	S	AE	AP
	TINS-6809BMNO	OWNERS MANUAL	S	-	-
	LCHSM1011BMZZ	CHASSIS FRAME	S	AD	AL
	RCORF0002BMZZ	FERRITE CORE TFC-16816EX	S	AF	AK
	RCILG0419BMZZ	COIL ATN01121953 ROTATION 16:9	S	AK	AR
CABINET PARTS					
1	CCABA1296BMV0	FRONT CABINET SET 81GF63E	S	BC	BT
1.1	GDORF1055BMSA	DOOR	S	AA	AD
1.2	PKAI-1083BM00	DOOR LATCH	S	AC	AF
1.3	HINDP5106BMSA	INDICATOR FRONTAL	S	AA	AD
1.4	HBDGB3510BMSA	BADGE SHARP	S	AC	AK
1.5	HDECQ0043BMSA	LED DECORATION COVER	S	AA	AC
1.6	HDECQ0044BMSA	R/C DECORATION COVER	S	AA	AC
1.7	JBTN-1056BMSA	UP/DOWN BUTTON	S	AA	AC
1.8	JBTN-1055BMSA	POWER BUTTON	S	AB	AD
△ 2	GCABB112BMKA	REAR CABINET 81GF63E 76GF63H	S	AZ	BN



SHARP



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