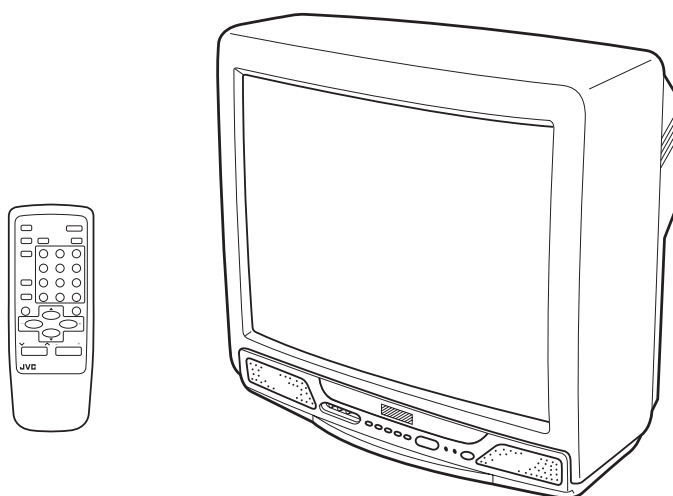


JVC

SCHEMATIC DIAGRAMS

COLOUR TELEVISION

AV-21AT



■ APPLICABLE MODELS

This standard circuit diagram is applicable to the following models.

However, there will be differences between this model and the following applicable models. For the differences, please refer to "PARTS DIFFERENCE TABLE" in the service manual of the following applicable models.

Basic Model (this Model)	Applicable Models
AV-21AT (Service Manual: No. 56013, May 2000)	AV-21ATG (Service Manual: No. 56014, May 2000)
	AV-21ATG(-A) (Service Manual: No. 56015, May 2000)
	AV-21A4EE (Service Manual: No. 56016, May 2000)
	AV-21A4(BK) (Service Manual: No. 56017, May 2000)

STANDARD CIRCUIT DIAGRAM

NOTE ON USING CIRCUIT DIAGRAMS

1. SAFETY

The components identified by the Δ symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

2. SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

- (1) Input signal : Colour bar signal
- (2) Setting positions of each knob/button and variable resistor : Original setting position when shipped
- (3) Internal resistance of tester : DC 20k Ω /V
- (4) Oscilloscope sweeping time : H \rightarrow 20 μ S/div
: V \rightarrow 5mS/div
: Others \rightarrow Sweeping time is specified.
- (5) Voltage values : All DC voltage values

* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3. INDICATION OF PARTS SYMBOL [EXAMPLE]

- In the PW board : R1209 \rightarrow R209

4. INDICATIONS ON THE CIRCUIT DIAGRAM

(1) Resistors

- Resistance value

No unit	: [Ω]
K	: [K Ω]
M	: [M Ω]

- Rated allowable power

No indication	: 1/4 [W]
Others	: As specified

- Type

No indication	: Carbon resistor
OMR	: Oxide metal film resistor
MFR	: Metal film resistor
MPR	: Metal plate resistor
UNFR	: Non-flammable resistor
FR	: Fusible resistor

* Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2) Capacitors

- Capacitance value

1 or higher	: [pF]
less than 1	: [μ F]

- Withstand voltage

No indication	: DC50 [V]
AC indicated	: AC withstand voltage [V]
Others	: DC withstand voltage [V]

* Electrolytic Capacitors

47/50 [Example]: Capacitance value [μ F]/withstand voltage [V]





- Type

No indication	: Ceramic capacitor
MY	: Mylar capacitor
MM	: Metalized mylar capacitor
PP	: Polypropylene capacitor
MPP	: Metalized polypropylene capacitor
MF	: Metalized film capacitor
TF	: Thin film capacitor
BP	: Bipolar electrolytic capacitor
TAN	: Tantalum capacitor

(3) Coils



No unit	: [μ H]
Others	: As specified

(4) Power Supply



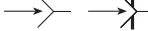
	: B1
	: 12V
	: 9V
	: 5V

* Respective voltage values are indicated.





(5) Test point

	: Test point
	: Only test point display

(6) Connecting method

	: Connector
	: Wrapping or soldering
	: Receptacle

(7) Ground symbol

	: LIVE side ground
	: ISOLATED (NEUTRAL) side ground
	: EARTH ground
	: DIGITAL ground

5. NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE (\perp) side GND and the ISOLATED (NEUTRAL) (\neq) side GND. Therefore, care must be taken for the following points.

- (1) Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED (NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.
- (2) Do not short between the LIVE side GND and ISOLATED (NEUTRAL) side GND or never measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED (NEUTRAL) side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken.

- Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

CONTENTS

SEMICONDUCTOR SHAPES 2-4

BLOCK DIAGRAM 2-5

CIRCUIT DIAGRAMS

MAIN PWB CIRCUIT DIAGRAM (Including CRT SOCKET PWB) 2-7

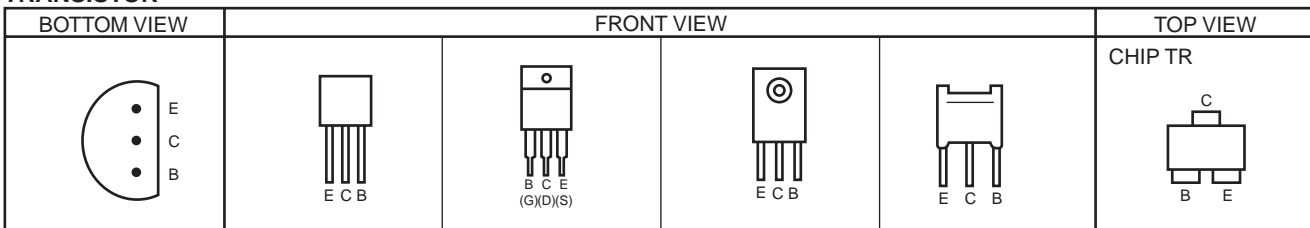
PATTERN DIAGRAMS

MAIN PWB PATTERN 2-11

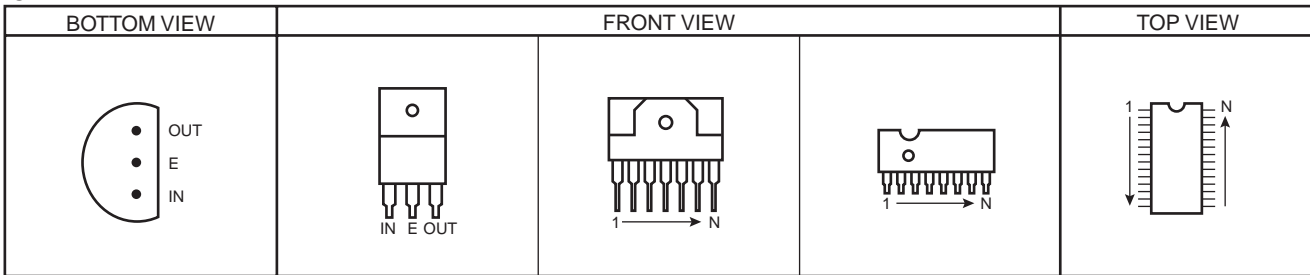
CRT SOCKET PWB PATTERN 2-13

SEMICONDUCTOR SHAPES

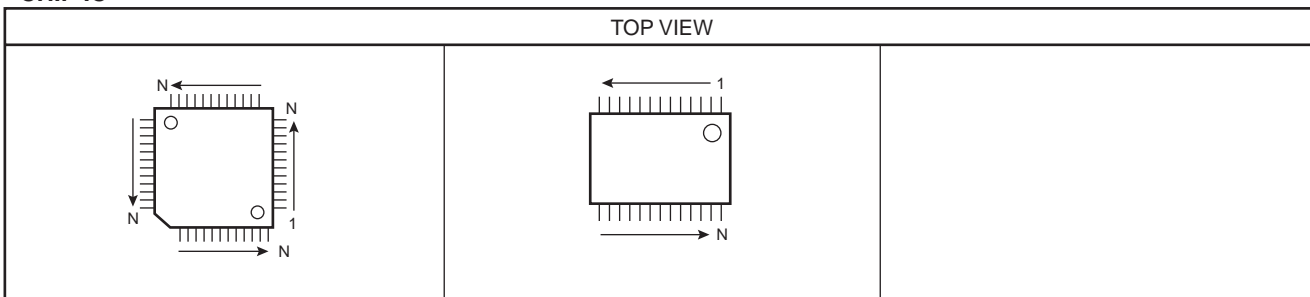
TRANSISTOR



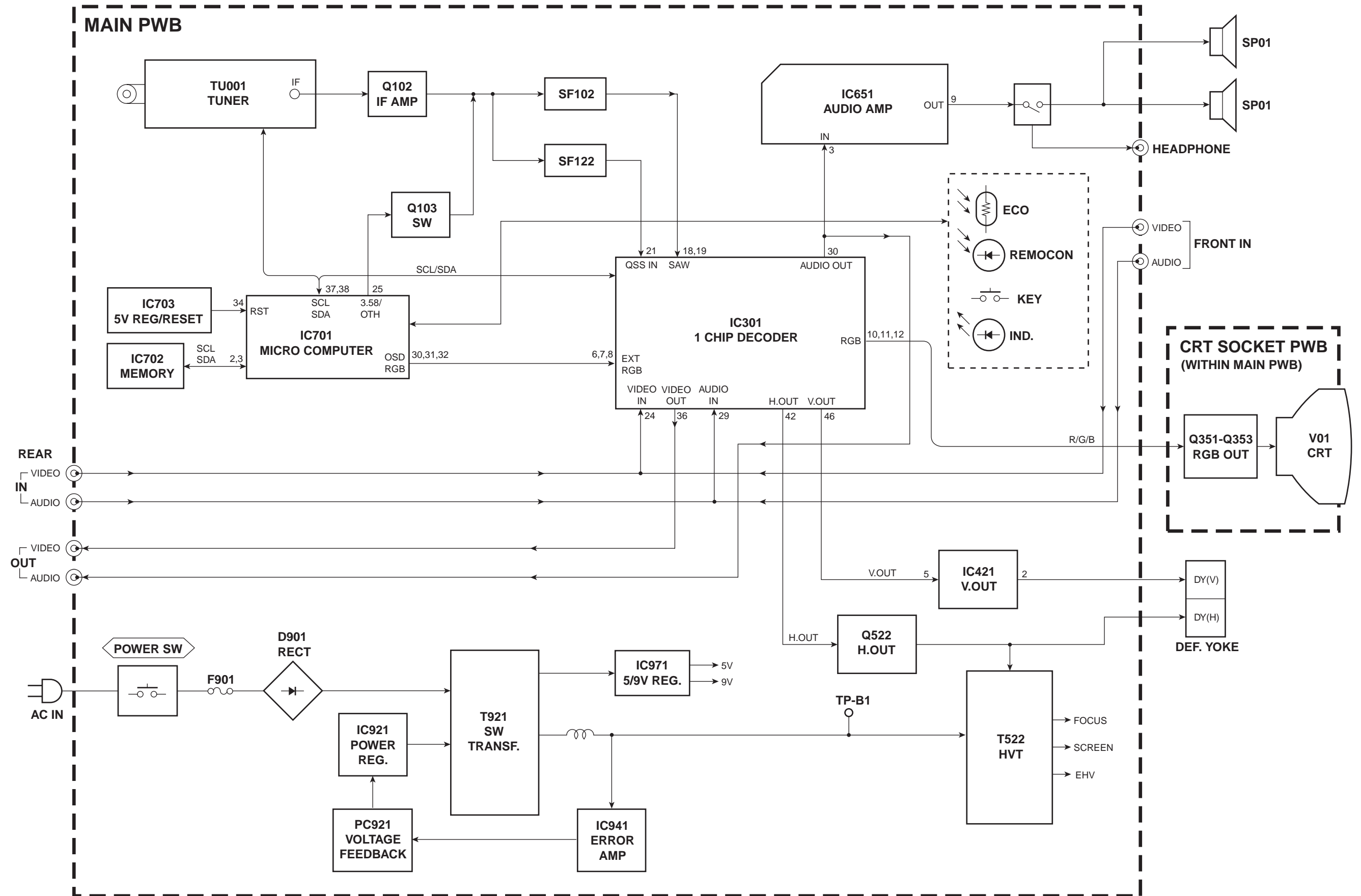
IC



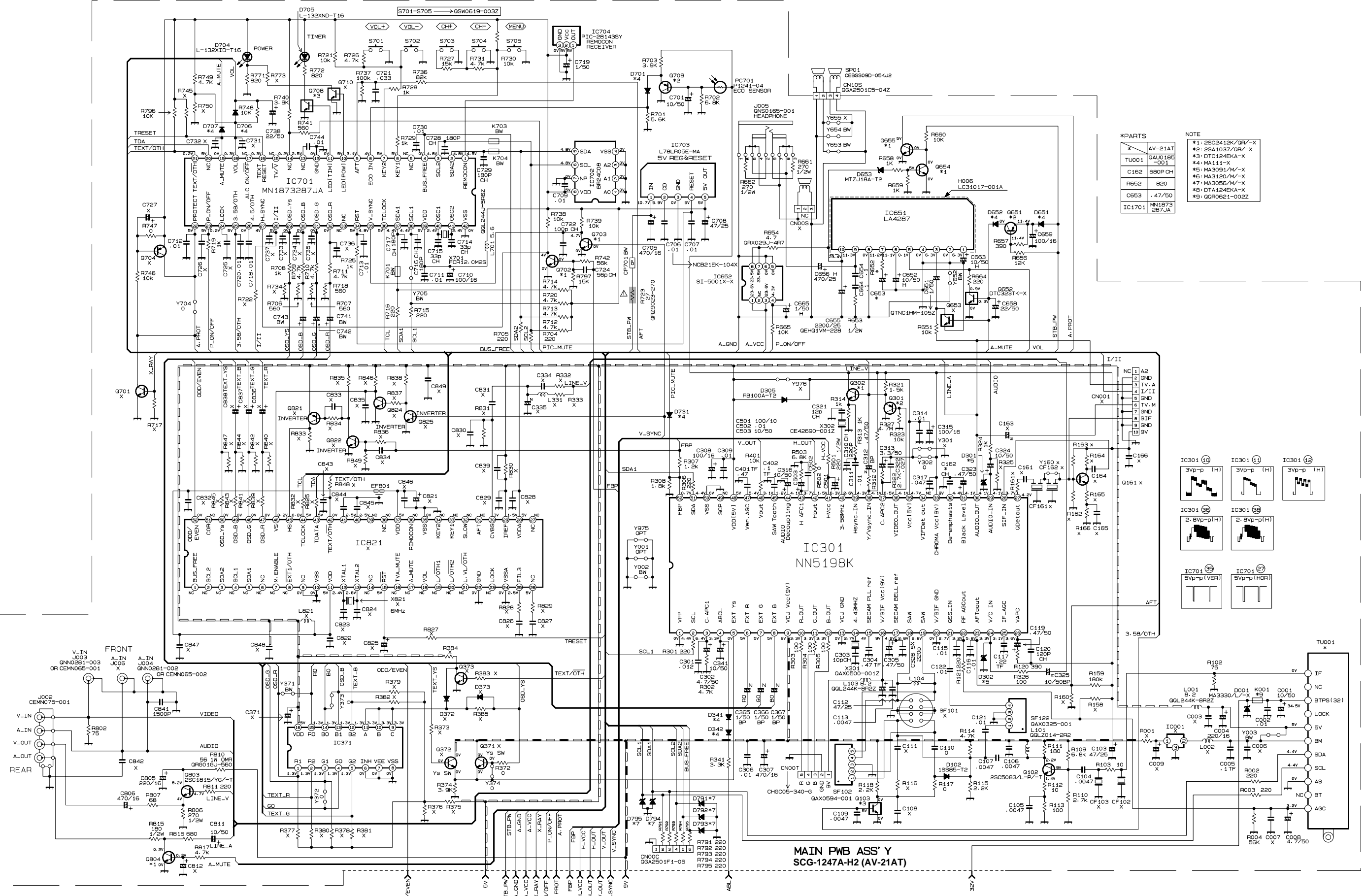
CHIP IC



BLOCK DIAGRAM



CIRCUIT DIAGRAMS MAIN PWB CIRCUIT DIAGRAM (1/2)



***PARTS**

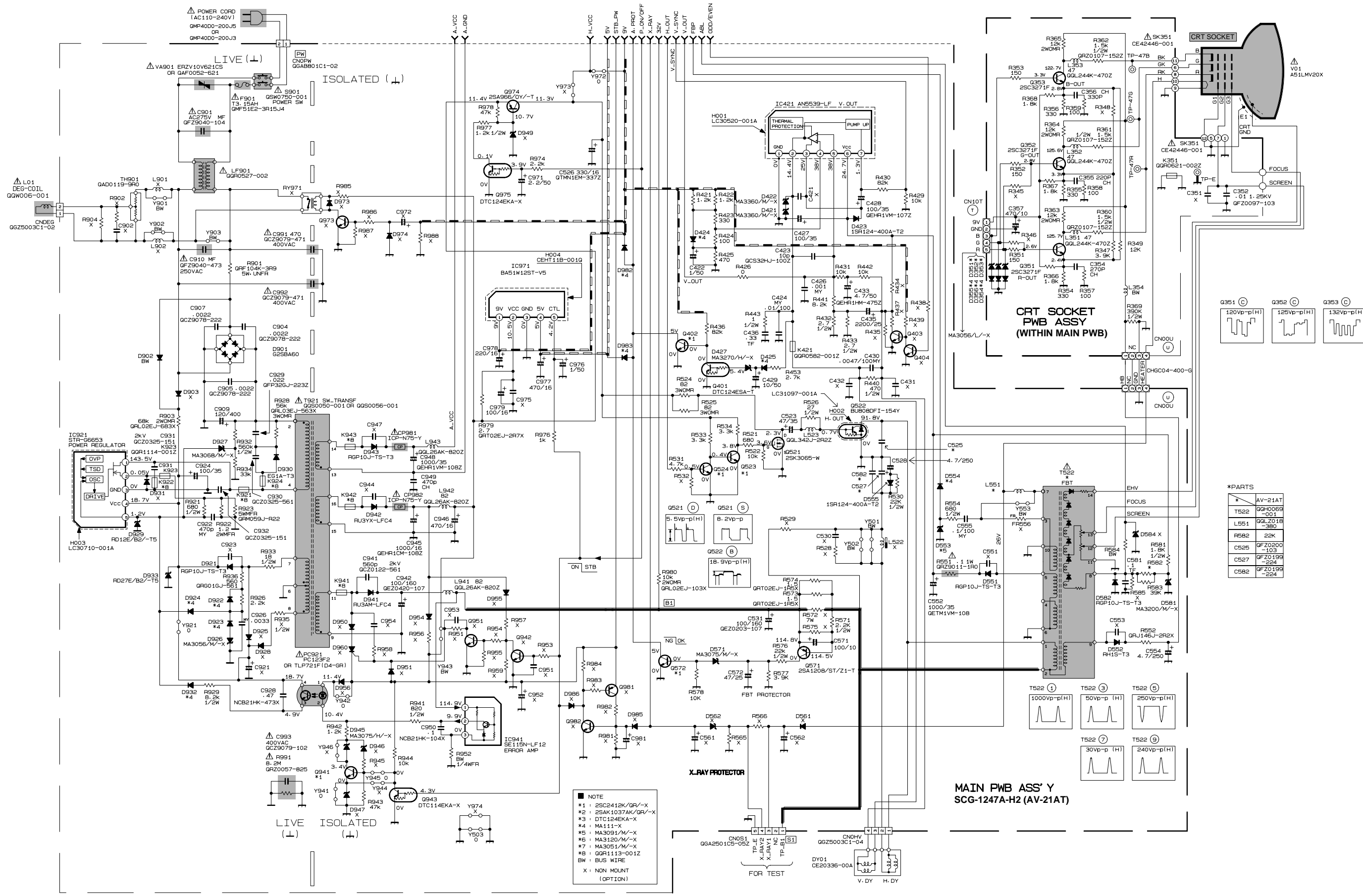
TU001	GAU0185-001
C162	680PCH
R652	820
C653	.47/50
IC1701	MN1873287JA

NOTE

- *1: 2SC2412K/GR/-X
- *2: 2SA1037/GR/-X
- *3: DTC124EKA-X
- *4: MA111-X
- *5: MA3091/M/-X
- *6: MA3120/M/-X
- *7: MA3056/M/-X
- *8: DTA124EKA-X
- *9: QGR0621-002Z

MAIN PWB ASS'Y
 SCG-1247A-H2 (AV-21AT)

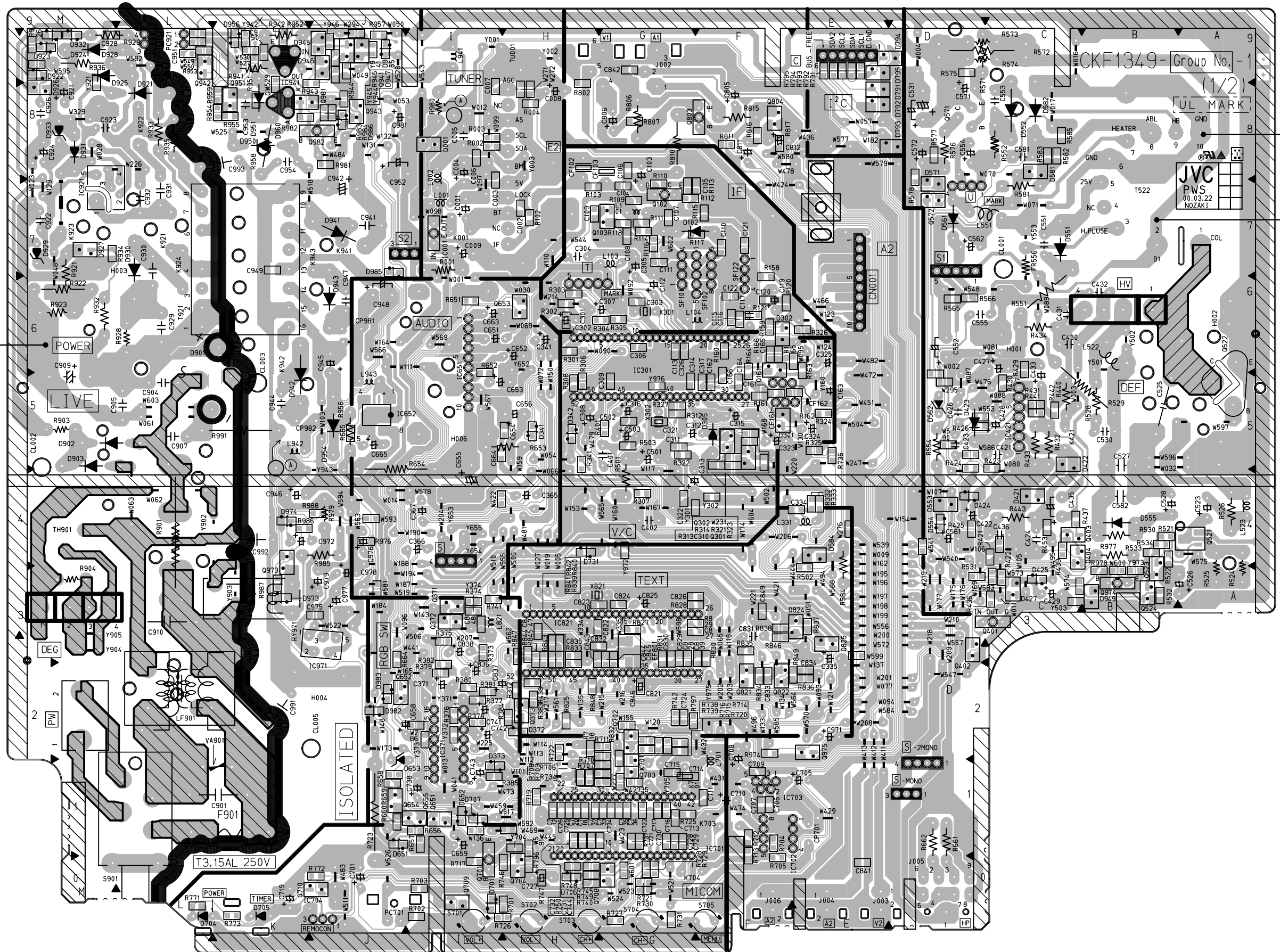
MAIN PWB CIRCUIT DIAGRAM (2/2)



PATTERN DIAGRAMS
MAIN PWB PATTERN

FRONT

(1)



CKF1349-Group No. -1

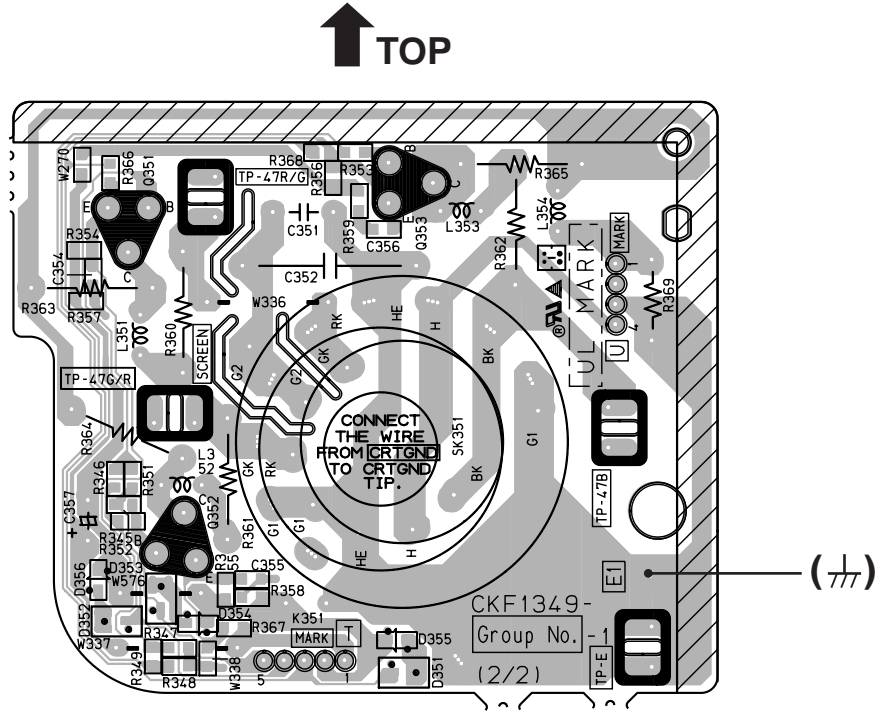
(1/2)

JVC
PWS
00.03.22
NOZAKI

TP-E
(+)

TP-91
(B1)

CRT SOCKET PWB PATTERN





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