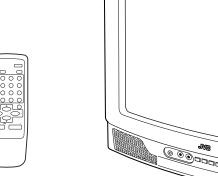
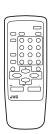
JVC

SCHEMATIC DIAGRAMS

COLOUR TELEVISION

AV-14AT





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-14AT (Service Manual: No. 56085, Oct. 2000)	AV-14ATG	(Service Manual: No. 56086, Oct. 2000)
	AV-14ATG(-A)	(Service Manual: No. 56087, Oct. 2000)
	AV-14AT(HK)	(Service Manual: No. 56088, Oct. 2000)
	AV-14A4EE	(Service Manual: No. 56089, Oct. 2000)
	AV-14AT(AU)	(Service Manual: No. 56090, Oct. 2000)

2-2 No. 56085

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 $20k\Omega/V$

(4) Oscilloscope sweeping time : H \rightarrow 20 μ S/div

: V → 5mS/div

: Others → 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 → R209

4. INDICATIONS ON THE CIRCUIT DIAGRAM

(1) Resistors

Resistance value

 $\begin{array}{ccc} \text{No unit} & : [\Omega] \\ \text{K} & : [\text{K}\Omega] \\ \text{M} & : [\text{M}\Omega] \\ \hline \bullet & \text{Rated allowable power} \\ \end{array}$

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

 $\begin{array}{ll} \text{1 or higher} & : [pF] \\ \text{less than 1} & : [\mu F] \end{array}$

Withstand voltage

No indication : DC50 [V]

AC indicated : AC withstand voltage [V]
Others : DC withstand voltage [V]

* Electrolytic Capacitors

47/50 [Example]: Capacitance value [μF]/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 : $[\mu H]$

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

∴ : 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 : (\bot) side GND and the ISOLATED (NEUTRAL) : (\clubsuit) 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.

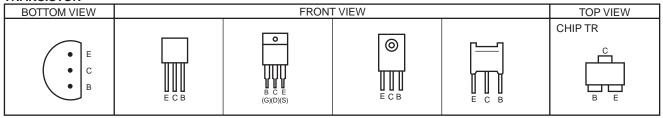
No. 56085 2-3

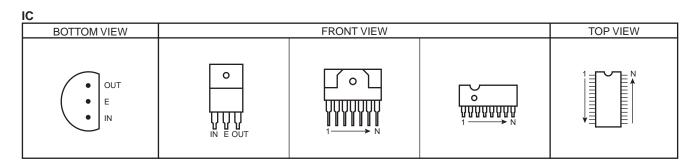
CONTENTS

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

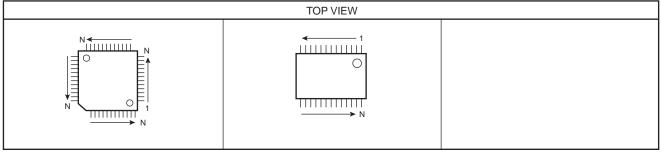
SEMICONDUCTOR SHAPES

TRANSISTOR





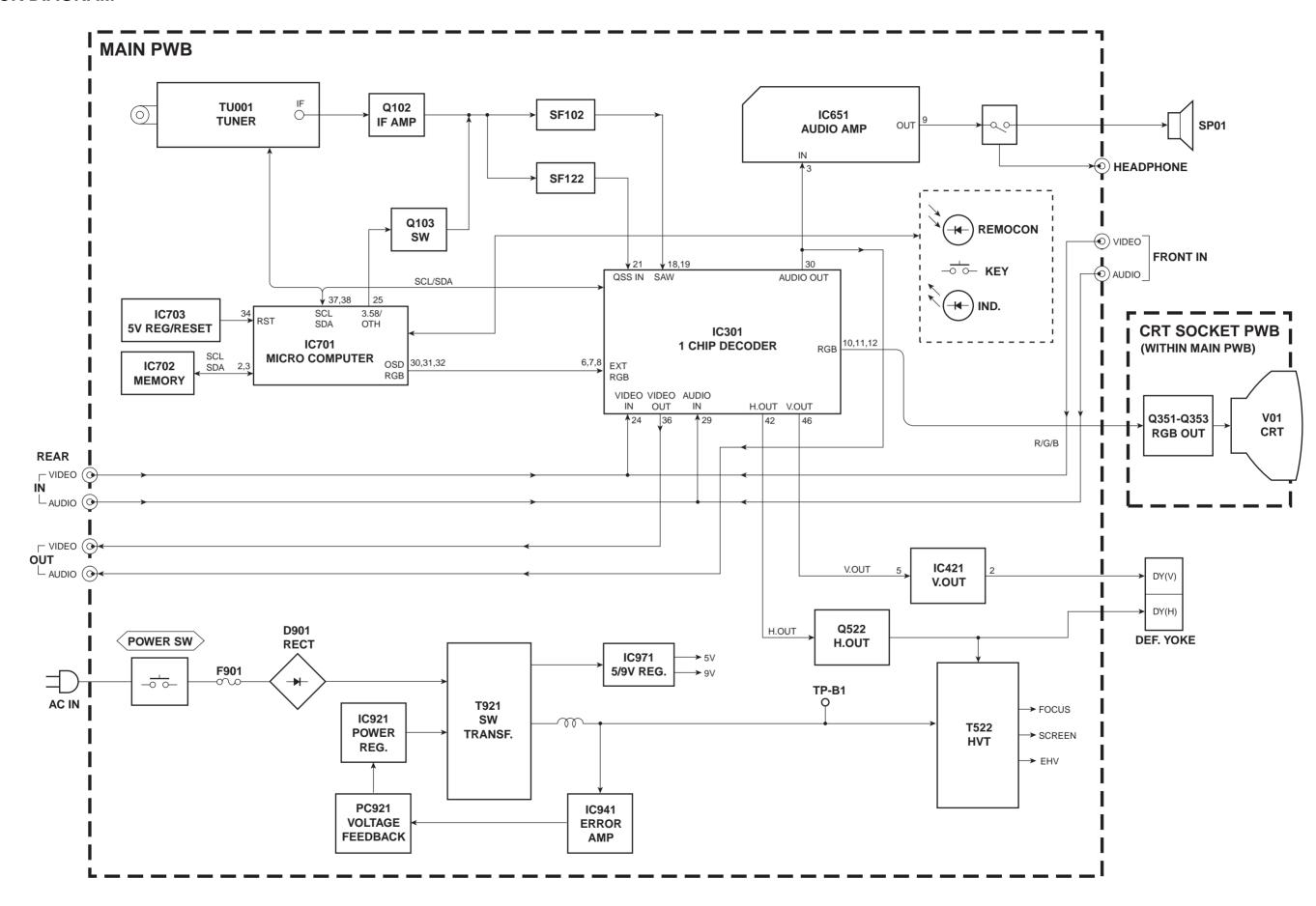
CHIP IC



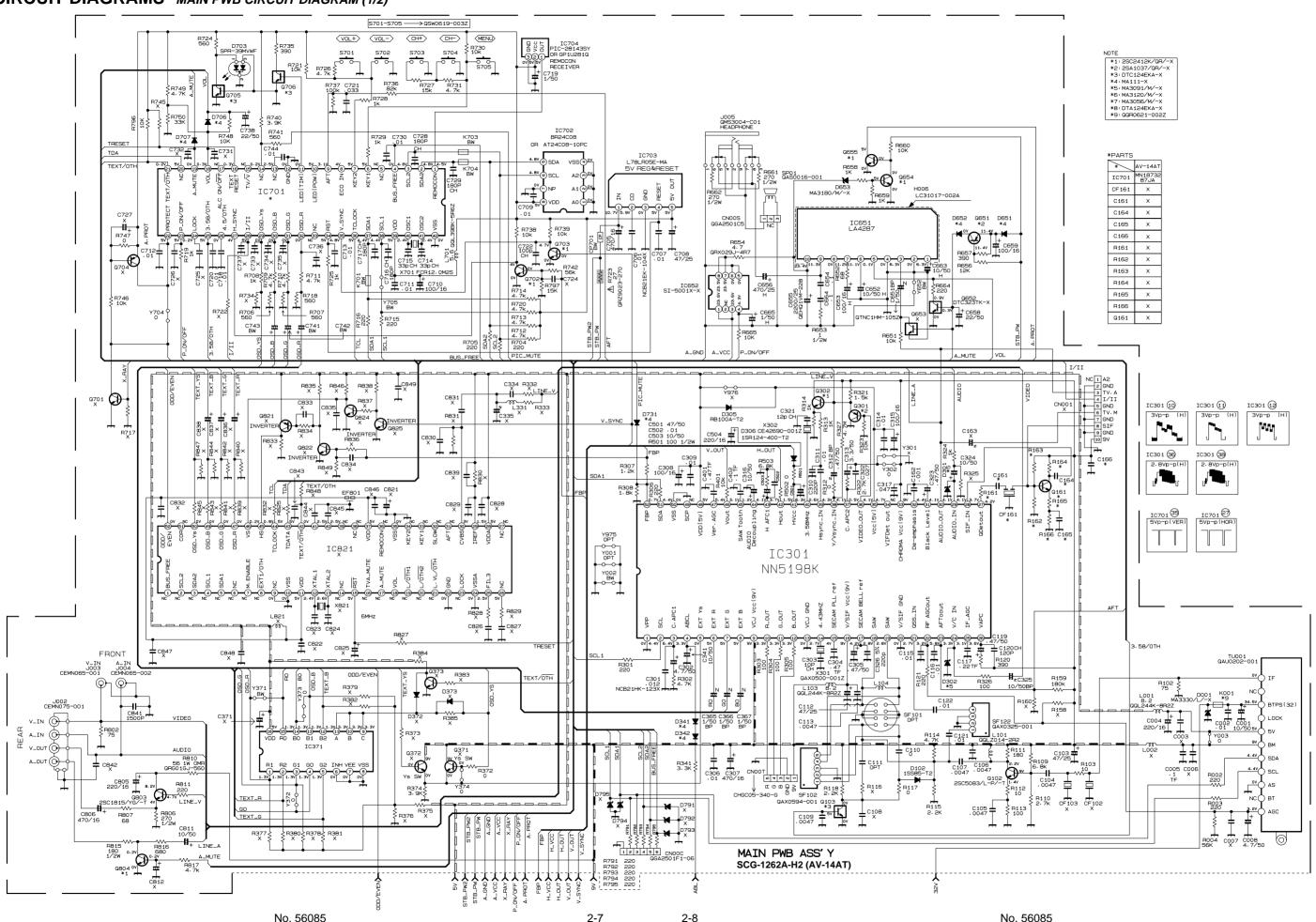
2-4 No. 56085

AV-14AT

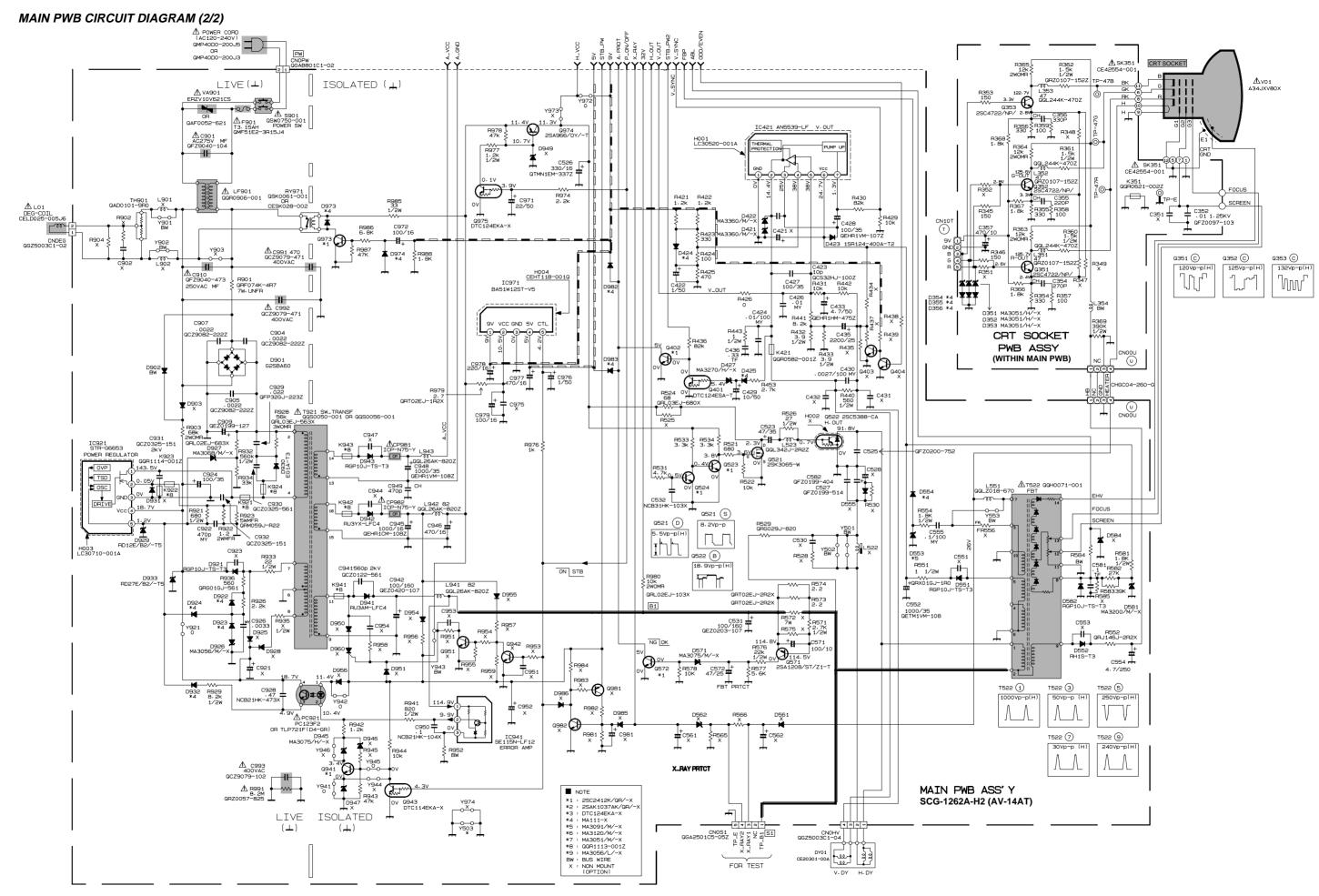
BLOCK DIAGRAM



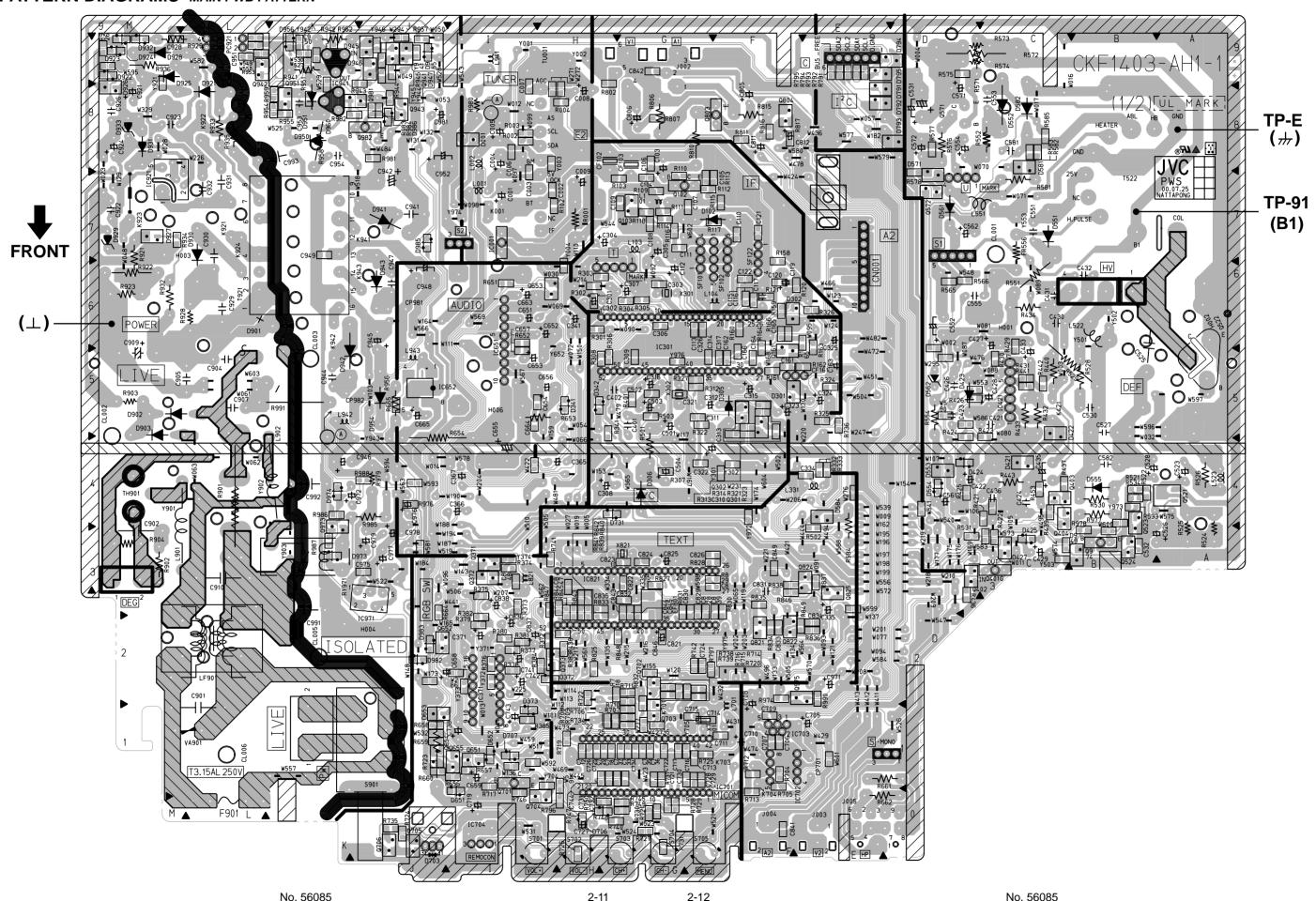
CIRCUIT DIAGRAMS MAIN PWB CIRCUIT DIAGRAM (1/2)

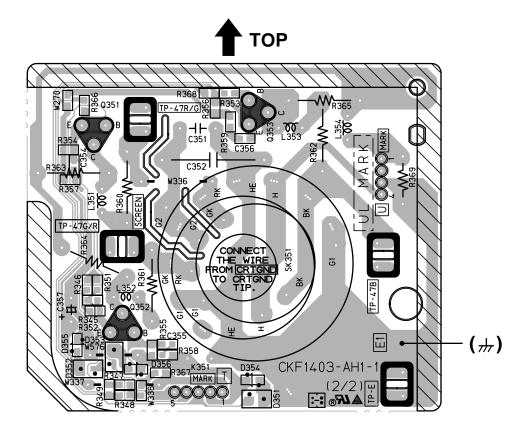


AV-14AT



PATTERN DIAGRAMS MAIN PWB PATTERN





No. 56085 2-13





