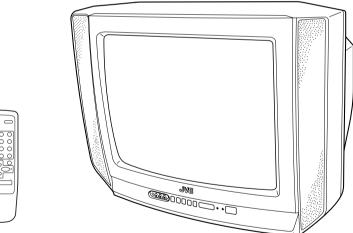
# JVC SCHEMATIC DIAGRAMS

## **COLOR TELEVISION**

## AV-20N3PX(PH)





## STANDARD CIRCUIT DIAGRAM

### ■ NOTE ON USING CIRCUIT DIAGRAMS

#### 1. SAFETY

The components identified by the  $\triangle$  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 : Color 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  $\rightarrow 20\mu$ S/div
  - : V → 5mS/div

: All DC voltage values

: Others → Sweeping time is specified.

(5) 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

No unit	: [Ω]
К	: [KΩ]
М	· [MO]

Rated allowable power

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

	Туре
--	------

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 bigbor	. []

1 or higher	:[p⊢]
less than 1	: [µF]

Withstand voltage	
No indication	: DC50 [V]
AC indicated	: AC withstand voltage [V]
Othora	· DC withstand valtage [\/]

```
Others : DC withstand voltage [V]
```

\* Electrolytic Capacitors

47/50 [Example]: Capacitance value [ $\mu$ F]/withstand voltage [V]

• Туре		
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	: [µH]	
Others	: As specified	
(4) Power Supply		
	: B1	
	: 12V	
	: 9V	
	: 5V	

\* Respective voltage values are indicated.



: 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

#### 5. NOTE FOR REPAIRING SERVICE

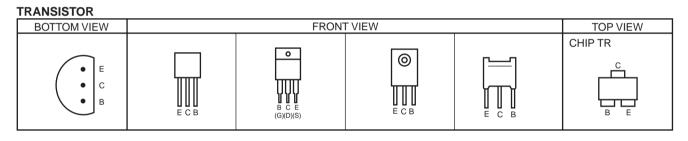
This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : ( $\perp$ ) side GND and the ISOLATED (NEUTRAL) : ( $\downarrow$ ) side GND. Therefore, care must be taken for the following points.

- (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 (NEU-TRAL) side GND or never measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED (NEU-TRAL) 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.

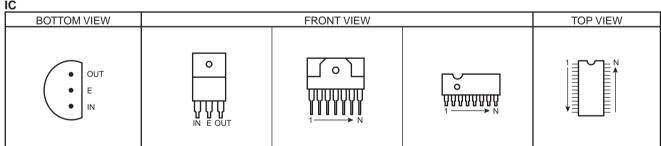
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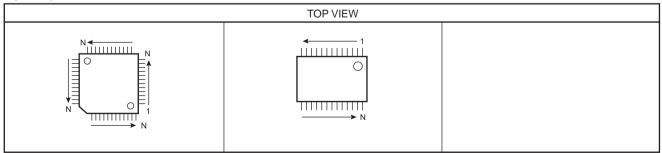
#### SEMICONDUCTOR SHAPES



IC

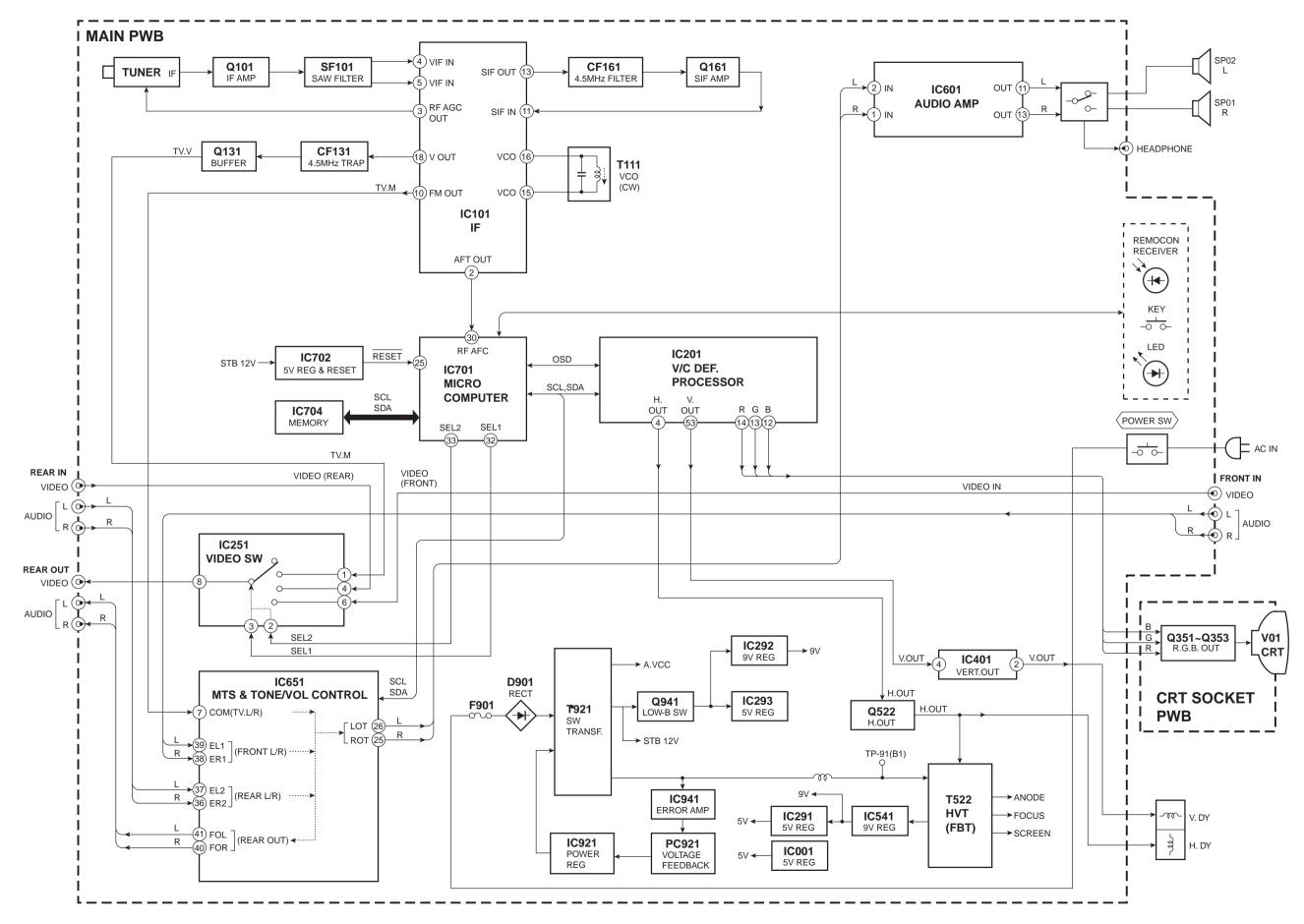


CHIP IC



AV-20N3PX

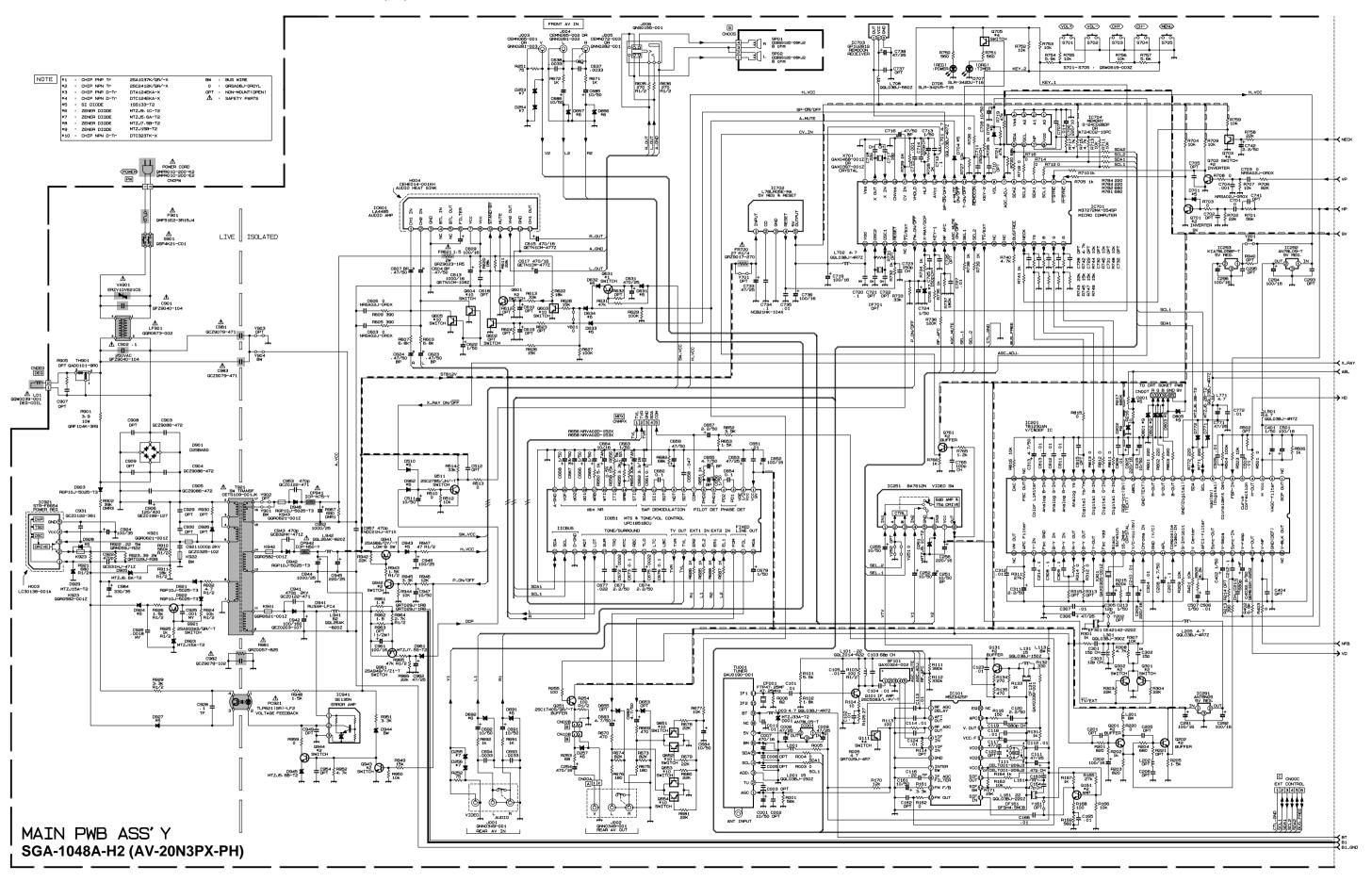
#### **BLOCK DIAGRAM**



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AV-20N3PX

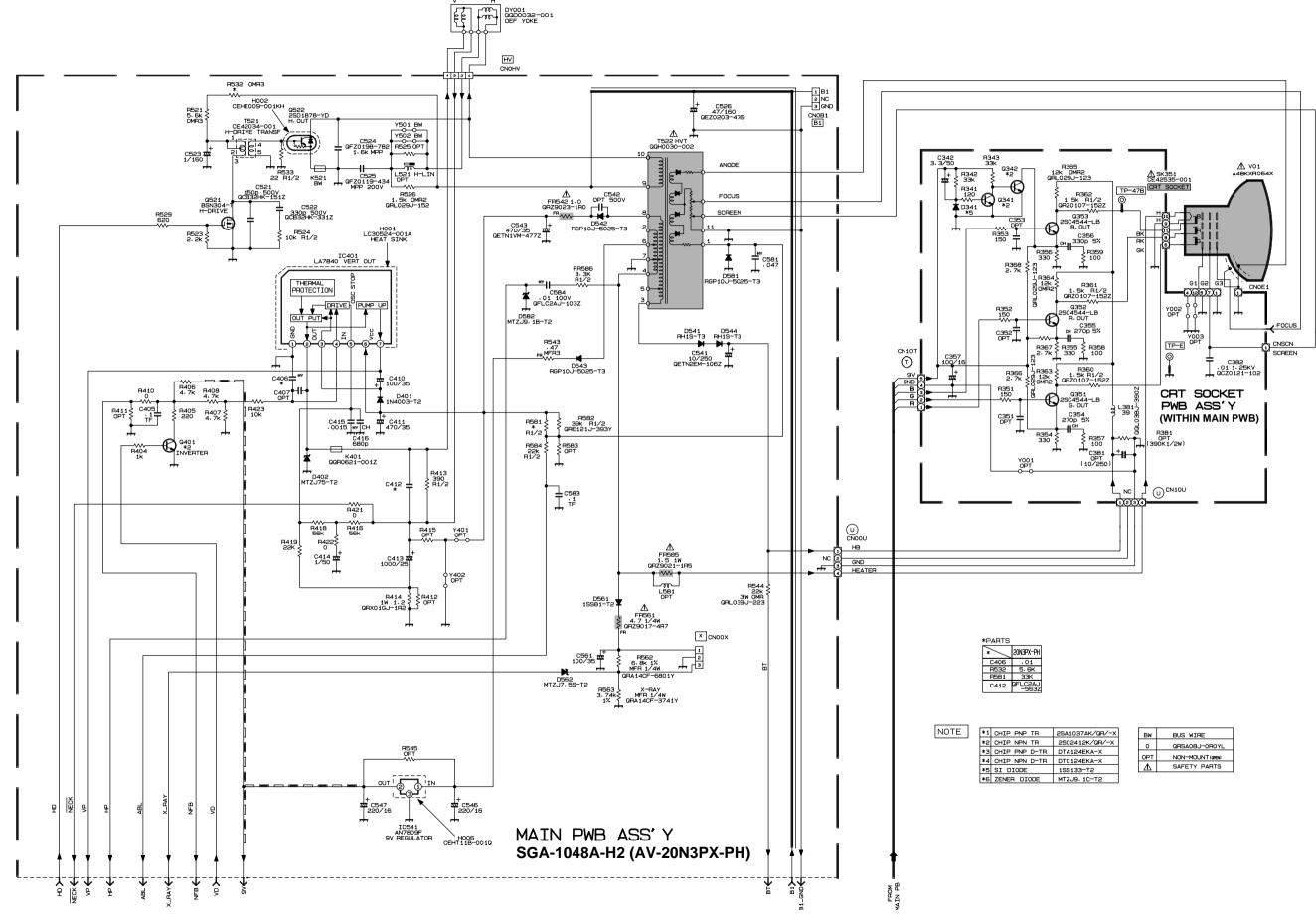
#### CIRCUIT DIAGRAMS MAIN PWB CIRCUIT DIAGRAM (1/2)



No. 56049

2-8

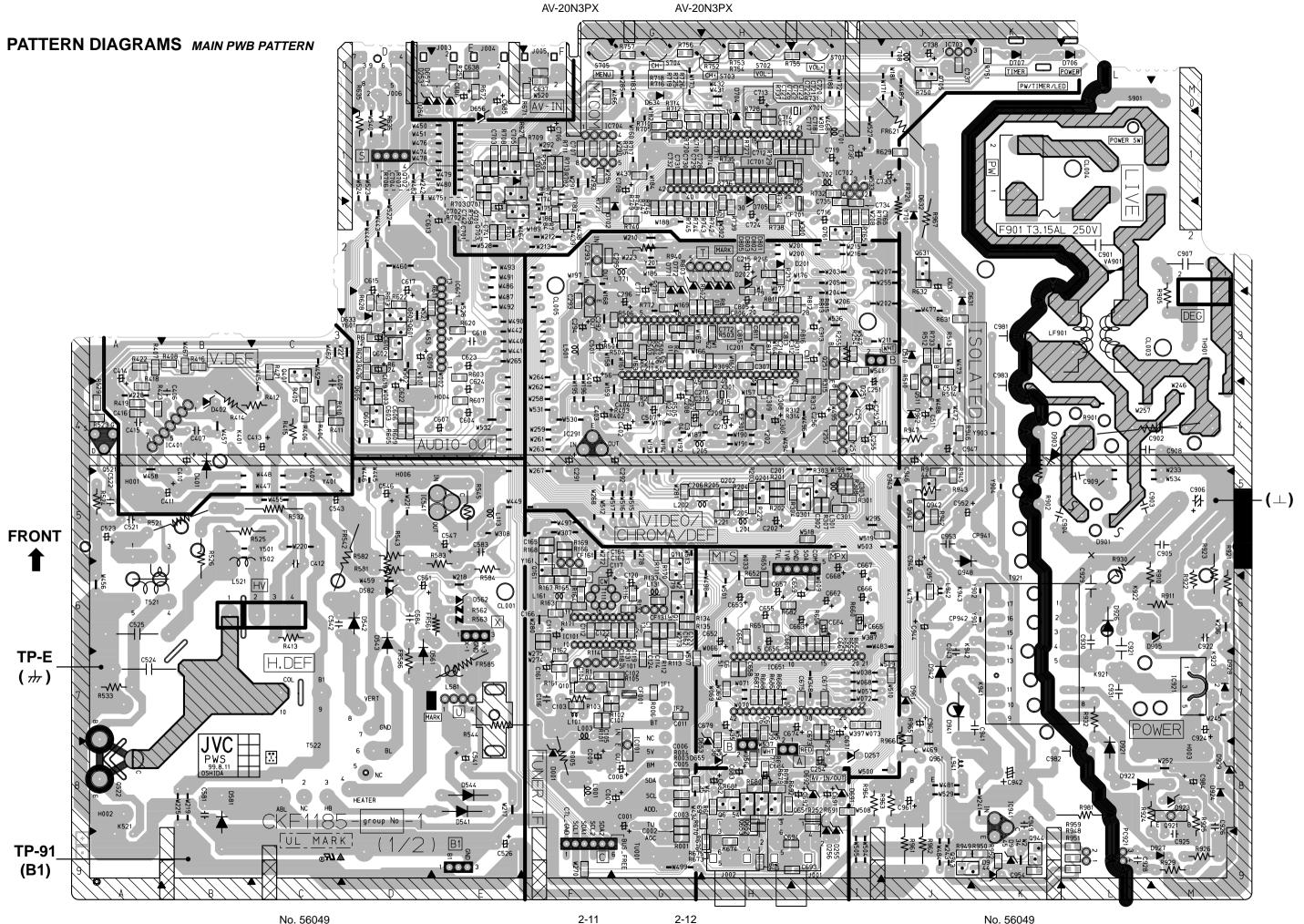
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2-10

25A1037AK/QR/-X		BW	BUS WIRE
25C2412K/QR/-X		0	QRSA08J-0R0YL
DTA124EKA-X		•	
DIRIERCA		OPT	NON-MOUNT (OPEN)
DTC124EKA-X	A		
1SS133-T2		Δ	SAFETY PARTS
MTZJ9.1C-T2			



No. 56049

2-11

No. 56049

