

Service Manual



Colour Television TX-21S3T TC-21S3R Z-7 Chassis

Specifications

Power Source :	220-240V AC, 50Hz	RCA IN	Video 1V p-p 75Ω
		RCA IN	Audio 500mV rms, 10KΩ
Power Consumption :	50W	High Voltage :	27kV + 0.7kV / - 1kV (zero beam current)
Standby Power Consumption :	1W	Picture Tube :	A51 ESF43X191 51 cm V 90° measured diagonally
Aerial Impedance :	75Ω unbalanced, Coaxial Type	Audio Output :	
Receiving System :	PAL-I (UHF), PAL-525/60, NTSC (AV Only)	Speaker	6 W (Music Power) 8 Ω Impedance
Receiving Channels :	UHF E21 - E69	Headphones	8 Ω Impedance
Intermediate Frequency :		Accessories supplied :	Remote Control 2 x R6 (UM3) Batteries TV Stand AV Cover
Video	39.5 MHz	Dimensions :	
Sound	33.5 MHz	Height :	480 mm
Colour	35.07 MHz	Width :	520 mm
		Depth :	485 mm
Video / Audio		Net Weight :	20kg
Terminals :			
AV1 IN	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 10kΩ RGB (21 pin)		
AV1 OUT	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 1 kΩ		

Specifications are subject to change without notice.
Weight and dimensions shown are approximate.

IMPORTANT

This receiver uses a **HOT** chassis, after service please ensure that the chassis is returned to its correct position.
Particular care being taken to the position of the customer controls.
Failure to do so could endanger customer safety.

Panasonic CS (U.K.) Ltd.

WILLOUGHBY ROAD,
BRACKNELL
BERKS,
RG12 8FT.

Panasonic

SCHEMATIC DIAGRAM FOR MODELS

TX-21S3T / TC-21S3R (Z-7 CHASSIS)

IMPORTANT SAFETY NOTICE

Components identified by  mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

1. RESISTOR

All resistors are carbon 1/4W resistor, unless marked. Unit of resistance is OHM (Ω) (K=1,000, M=1,000,000).

- | | |
|--|---|
|  : Nonflammable |  : Metal Oxide |
|  : Metal Film |  : Fuse |
|  : Wire Wound |  : Solid |

2. CAPACITOR

All capacitors are ceramic 50V capacitors, unless marked as follows: Unit of capacitance is μ F, unless otherwise stated.

- | | |
|--|---|
|  : Temperature Compensation |  : Polyester |
|  : Polypropylene |  : Dipped Tantalum |
|  : Electrolytic | NP  : Bipolar |
|  : Metallised Polyester |  : Z-Type |

3. COIL

Unit of inductance is μ H, unless otherwise stated.

4. TEST POINT

-  Test Point position

5. EARTH SYMBOL

-  Chassis Earth (**COLD**)  Line Earth (**HOT**)

6. VOLTAGE MEASUREMENT

Voltage is measured by a DC voltmeter. Measurement conditions are as follows:

Power source AC 220 / 240V, 50Hz

Receiving Signal Colour Bar signal (RF)

All customer controls. Maximum position

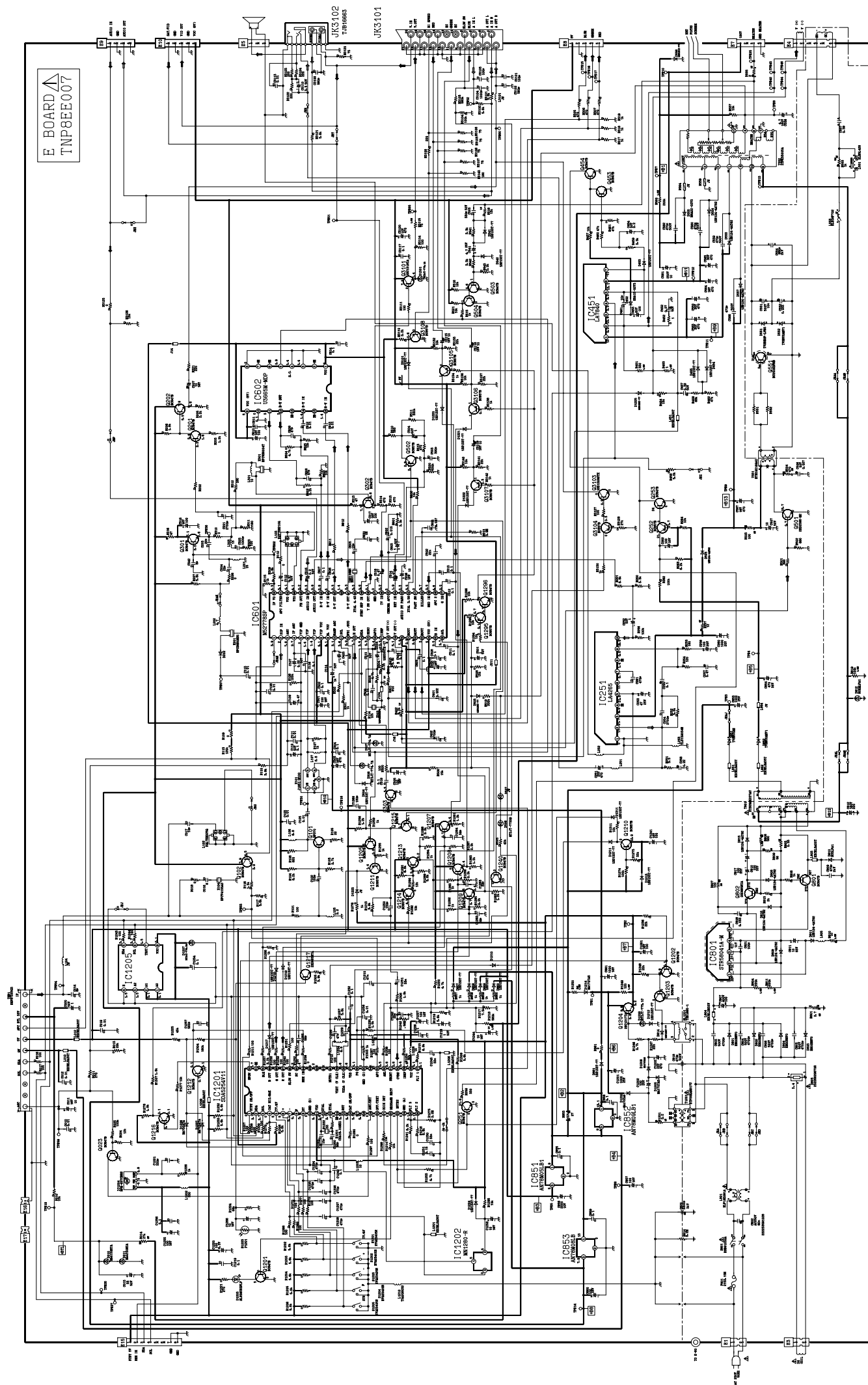
7.  Indicates the Video signal path
-  Indicates the Audio signal path
-  Indicates the Vertical/Horizontal signal path

8. This schematic diagram is the latest at the time of printing and is subject to change without notice.

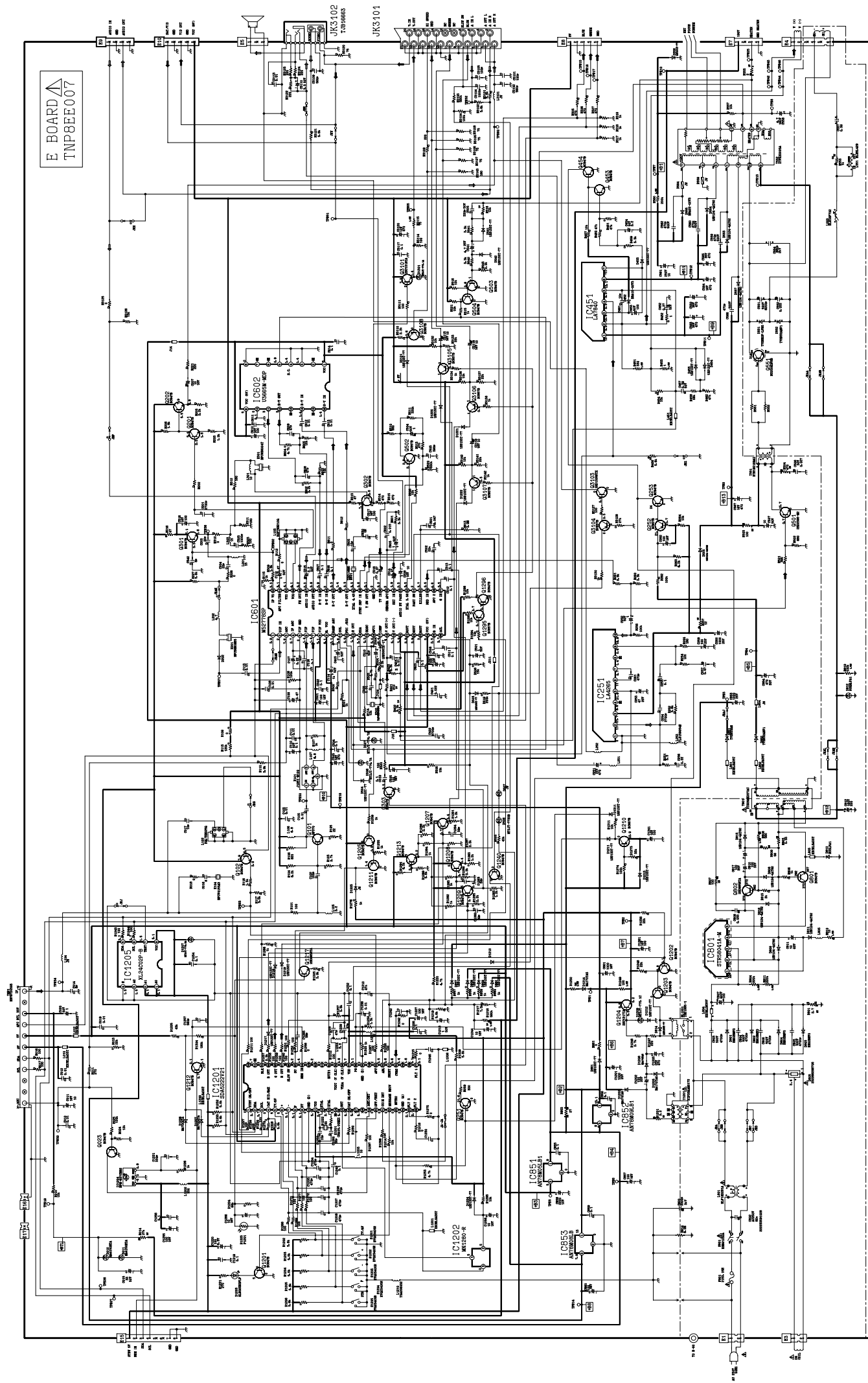
Remarks:

- Care must be taken when servicing this receiver, as it uses a **HOT** chassis. The circuit is defined by **HOT** and **COLD** indications in the schematic diagram. Take the following precautions. All circuits except the Audio, Video input circuits are **HOT**.
- Precautions**
 - Do not touch the **HOT** part, or the **HOT** and **COLD** parts of the chassis, at the same time, as you are liable to a shock hazard.
 - Do not short-circuit the **HOT** and **COLD** circuits as electrical components may be damaged.
 - Do not connect an instrument, such as an oscilloscope, to the **HOT** and **COLD** circuits simultaneously, as this may cause fuse failure. Connect the earth of the instruments to the earth connection of the circuit being measured.
 - Make sure to disconnect the power plug before removing the chassis.

E BOARD
TNP8EE007



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Y BOARD TX - 21S3T / TC - 21S3R

