Service Manual



Colour Television TX-28EX4F TX-25EX4F

EURO4 Chassis

SPECIFICATIONS

(Information in brackets { } refers to model TX-25EX4F) **Power Source:** 220-240V AC, 50Hz

85\\\ **Power Consumption:**

Aerial Impedance: 75 Ω unbalanced, Coaxial Type

Stand-by Power

Consumption: 1,8W

PAL I,B/G, H, D/K, PAL 525/60 Receiving System:

SECAM L/L', B/G, D/K

M.NTSC NTSC (AV only)

Receiving Channels:

VHF E2-E12 VHF H1-H2 (ITALY) VHF A-H (ITALY) VHF R1-R2 VHF R3-R5 VHF R6-R12 UHF E21-E69 CATV (S01-S05) CATV S11-S20 (U1-U10) CATV S1-S10 (M1-M10)

CATV S21-S41 (HYPERBAND)

Intermediate Frequency:

Video 38,9MHz 34MHz

Audio 32,9MHz, 33,4MHz, 33,16MHz

32,4MHz, 40,4MHz, 33,05MHz

32,66MHz

Colour 34,47MHz (PAL)

34,5MHz, 34,65MHz (SECAM)

Video/Audio Terminals:

AUDIO MONITOR OUT

Audio (RCAx2) 500mV rms1k Ω AV1 IN Video (21 pin) 1V p-p 75Ω

Audio (21 pin) 500mV rms $10k\Omega$

RGB (21 pin)

AV1 OUT Video (21 pin) 1V p-p 75Ω

500mV rms 1k Ω Audio (21 pin)

AV2 IN Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms $10k\Omega$

S-Video IN Y: 1V p-p 75Ω (21 pin) C: 0.3V p-p 75Ω **AV2 OUT** Video (21 pin) 1V p-p 75Ω

Audio (21 pin) 500mV rms $1k\Omega$

Selectable Output (21 pin)

AV3 IN Audio (RCAx2) 500mV rms10kΩ Video (RCAx1) 1V p-p 75Ω

28,5kV ±1kV {28,2kV ±1kV} A66ECF50X41 66cm

{A59ECF50X41 59cm} **Audio Output:**

2 x 15W (Music Power) 8Ω Impedance

Headphones: 8Ω Impedance

3,5 mm

Accessories

High Voltage:

Picture Tube:

supplied: Remote Control

2 x R6 (UM3) Batteries

Dimensions:

Height: 596,5 mm {550,5 mm} Width: 778 mm {730 mm} Depth: 479 mm {478,5 mm}

Net weight: 32kg {27kg}

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

NOTE: This Service Manual should be used in conjunction with the EURO4 Technical Guide.

Panasonic

SCHEMATIC DIAGRAMS FOR MODELS

TX-28EX4F / TX-25EX4F

(EURO-4 CHASSIS)

IMPORTANT SAFETY NOTICE

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

NOTE

1. RESISTOR

All resistors are carbon ${}^{1}\!\!\!/W$ resistor, unless marked otherwise. Unit of resistance is OHM (Ω) (k=1,000, M=1,000,000)

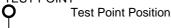
2. CAPACITORS

All capacitors are ceramic 50V unless marked otherwise. Unit of capacitance is μF unless otherwise stated.

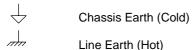
COIL

Unit of inductance is µH, unless otherwise stated.

4. TEST POINT



5. EARTH SYMBOL



VOLTAGE MEASUREMENT

Voltage is measured by a DC voltmeter.

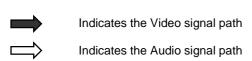
Measurement conditions are as follows:

Power source AC 220V-240V, 50Hz

Receiving Signal Colour Bar signal (RF)

All customer controls Maximum position

7.



These schematic diagrams are the latest at time of printing and are subject to change without notice.

REMARKS

- a. Do not touch the hot part, or the hot and cold parts at the same time, as you are liable to a shock hazard.
- b. Do not short circuit the hot and cold circuits as electrical components may be damaged.
- c. 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.
- d. Make sure to disconnect the power plug before removing the chassis.

NOTE

The Power Supply Circuit contains a circuit area, which uses a separate power supply to isolate the earth connection.
The circuit is defined by HOT and COLD indications in the schematic diagram. All circuits, except the Power Circuit, are COLD.

