

Service Manual



Colour Television

TX-28LDM4F TX-25LDM4F

EURO4 Chassis

SPECIFICATIONS

(Information in brackets { } refers to model TX-25LDM4F)

Power Source: 220-240V AC, 50Hz

Power Consumption: 85W

Aerial Impedance: 75Ω unbalanced, Coaxial Type

Stand-by Power Consumption: 1,8W

Receiving System: PAL-I, B/G, H, D/K, PAL-525/60
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 S1-S10 (M1-M10) CATV S11-S20 (U1-U10)
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 rms 1kΩ
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 1kΩ

AV2 IN Video (21 pin) 1V p-p 75Ω
Audio (21 pin) 500mV rms 10kΩ
S-Video IN Y: 1V p-p 75Ω
(21-pin) C:0.3V p-p 75Ω

AV2 OUT Video (21 pin) 1Vp-p 75Ω
Audio (21 pin) 500mV rms 1kΩ
Selectable output (21 pin)

AV3 IN Audio (RCAx2) 500mV rms 10kΩ
Video (RCAx1) 1V p-p 75Ω

High Voltage: 28,5kV ±1kV {28,2kV ±1kV}
Picture Tube: A66ECF50X41 66cm
{A59ECF50X41 59cm}

Audio Output: 2 x 15W (Music Power)
8Ω Impedance

Headphones: 8Ω Impedance

Accessories supplied : Remote Control
2 x R6 (UM3) Batteries

Dimensions:
Height: 596,5 mm {550,5 mm}
Width: 778 mm {730 mm}
Depth: 481 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-28LDM4F / TX-25LDM4F (EURO-4 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.



NOTE

1. RESISTOR
All resistors are carbon 1/4W 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 μ F unless otherwise stated.
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 220V-240V, 50Hz
Receiving Signal Colour Bar signal (RF)
All customer controls Maximum position

7.
 Indicates the Video signal path
 Indicates the Audio signal path

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

1. 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.

