
Model: SONY AE4 Fault area (1): COLOUR

Symptom (1)

Changing background colour in TXT V2.5

Fault

This is a feature of TXT V2.5. Feature can be switched off through TT18. Close off with TT00. TT17 will undo this again if necessary.

Symptom (2)

Blue is predominant.

Fault

Legs of R711 are too long and S/C. Cut legs off to correct size.

Location Section

C-board VPA

Model: SONY AE4 Fault area (2): PICTURE

Symptom (2)

Picture runs vertically.

Fault

Deflection processor IC403 is defective through which there is no V-sync on pin 28 of IC403. Replace IC403 SDA9361 no. (8-759-421-42).

Symptom (4)

No picture.

Fault

Short between pin 66 and 67 (on A-board) of IC201.

Symptom (5)

Picture is very dark and only consists of chroma info.

Fault

Poor contact of connector CN1810, connection between A board and B board. Disconnect white wire and restore contacts.

Symptom (1)

Jitters Vertically in PAL plus mode.

Fault

Data corruption or incorrect setting. Via service (TT) mode using the menu keys on the remote control go to "features box" in the devices overview. Set the value of register 78 ('R22 HWE 1 main) in at 65.

Symptom (3)

No sync, only lines.

Fault

Crystal X1801 is defective. Replace X1801 (10MHz) 1-579-175-11 on the B-board VPD (between pin 20 and 21 of IC1816).

Model: SONY AE4 Fault area (3): AUDIO

Symptom (1)

Noisy hissing sound and static from the speakers.

Fault

Sound processor IC201 (MSP3400CPS-C6-T) is defective, replace IC201 (8-759-376-56). The IC is extremely temperature sensitive.

Symptom (2)

Hum from centre and surround speakers.

Fault

Interference of vertical deflection. To reduce hum reposition signal and supply leads between K board and D board. Distance between leads and CN0745 must be as big as possible.

Model: SONY AE4 Fault area (4): POWER

Symptom (1)

Dead.

Fault

Transformer T602 on the G-board has S/C. P/N: 1-427-864-11

Symptom (2)

Dead or switches off immediately. No error code given.

Fault

IC802 (Vertical out) on D-board is defective. R818 and/or R819 possible also open circuit. Replace IC802. Add a diode between pin 2 (IC802) and earth. Do the same between pin 4 and earth. cover the entire top side of the heatsink with insulating tape.

IC802 STV9379 8-759-192-71

D875 MTZL20D 8-719-048-52

D876 MTZL20D 8-719-048-52

R818 0.47ohm 1-249-377-11 (fusible)

R819 0.47ohm 1-249-377-11 (fusible)

Model: SONY AE4 Fault area (5): FUNCTION

Symptom (1)

Dead.

Fault

B board supplies incorrect pulses, causing defective Q802. Replace B board and Q802.

Ref.	Description	Location	Part no.
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Q802	2SC3997CA	D-Board	DFL 8-729-821-07
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B-Board	B-Board compl.	B-Board	DFL A-1620-077-A
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Symptom (2)

No function.

Fault

. Clock error of the I2C bus signals (SDL and SCL) as a result of a malfunction of the tuner BTP-EC411 (8-598-045-00 or 8-598-045-01). In the tuner change the grounding connection at TSA5512T (PLL).

Model: SONY AE4 Fault area (6): GEOMETRY

Symptom (1)

Picture is too small with pincushion distortion.

Fault

PIN drive Q803 is defective. Replace transistor (FET) Q803 on D-board, no. 8-729-039-68.