



Sanyo LCD-40XZ11F Service Manual

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FILE NO.

LCD-40XZ11F

SERVICE MANUAL

PRODUCT CODE No.

PRODUCT CODE No.

1 682 351 37: PAL-B/G

(New Zealand)

SA



LCD TV

NTSC(AV)

REFERENCE No.:SM0915205



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Summary of Contents for Sanyo LCD-40XZ11F

[Page 1](#) FILE NO. LCD-40XZ11F SERVICE MANUAL PRODUCT CODE No. PRODUCT CODE No. 1
682 351 37: PAL-B/G (New Zealand) LCD TV NTSC(AV) INPUT REFERENCE No.:SM0915205...

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[Page 3: Safety Precautions](#)

Attention: This service manual is only for service personnel to take reference with. Before servicing please read the following points carefully. Safety precautions 1. Instructions Be sure to switch off the power supply before replacing or welding any components or inserting/plugging in connection wire.

[Page 4](#) would be unable to work and no way to get it repaired. If the connection wires, connections or components fixed by the thermotropic glue need to disengage when service, please soak the thermotropic glue into the alcohol and then pull them out in case of damage.

[Page 5: Alignment Instructions](#)

Adjustment Instruction Safety Instructions 1.1 Power supply must be cut off when replacing or welding any component or inserting / pulling out connective lines; 1.2 Anti-electrostatic measures must be carried out during the whole producing processes! Do not touch IC by hands at will; Use anti-electrostatic iron;...

[Page 6](#) 3.2 Adjustment flow as Fig. 1: Check if EDID HDCP KEY FLASH has been written? General assembly and combined adjustment White balance adjustment Input central signal, check TV function (omitted channel, analog parameters control, etc.), check earphone, speakers output. Check accessory and packing Check AV input, output and relevant functions.

[Page 7](#) Adjustment Instruction 4.1 The unit adjustment 4.1.1 According to the wiring diagram specified by "Product Specification", connect power/backlight board assembly, data processing assembly, IR/Key board assembly correctly, supply with power, turn on the TV set. Check display. 4.1.2 Factory menu instruction Press key "INPUT", then press digital keys "2580"...

[Page 8](#) 4.1.4 ADC calibration for Component channel a) Switch to Component channel; b) Press key "INPUT", then press digital keys "2580" in turn to enter into primary factory menu; c) Move cursor to item "ADC ADJUST" and press key "OK" to enter into the inferior submenu; d) Input Component signal (VG-849 Timing:972(1080i), Pattern:918 100% color bar);...

[Page 9](#) Gain/Offset upward, coordinates of Y will increase, adjust G Gain/Offset downward, coordinates of Y will decrease; Note: Sanyo customer requires that default color temperature is Normal, adjust white balance of color temperature Normal and Cool in Dynamic picture mode; for other customers, please adjust white balance of color temperature Cool in Dynamic picture mode.

[Page 10](#) 5.4 D-SUB port Input D-SUB signal from VG-849 with formats listed as Table 3 separately, check picture and sound; if H.V. of picture displays abnormally, enter into main menu Picture->Screen->Auto Adjust to perform auto calibration. Table 3 D-SUB signal formats H.- Freq.

[Page 11](#) Table 5 Video & audio signal formats of digital HDMI Item Unit Parameter Note Deep color RGB 4:4:4 24 bit/pixel 30 bit/pixel 36 bit/pixel YUV 4:4:4 24 bit/pixel 30 bit/pixel 36 bit/pixel Video For "1080p deep color" only support "30 bit/pixel" YUV 4:2:2(16 bit) YUV 4:2:2(20 bit) YUV 4:2:2(24 bit) Audio sample 32 44.1 48 frequency...

[Page 12: Software Upgrade Instructions](#)

Software Upgrading Instruction Software Upgrading Instruction as Table 6 Table 6 Software Upgrading Instruction Software SMT before Location Part No. Part model Upgrading method function upgrading Upgrade with ALL100, etc., N103 5272532006 EN25Q32A-100HIP FLASH need write protection, refer to Note1; N105 5272404005 CAT24C04WI-GT3...

[Page 13](#) Fig. 3 Device MX25L64 successful connection If connection is failed, press the first menu "Device" and choose "MX25L64" manually, then press "Connect"; 4 Press "Read", choose upgrading file, such as "MERGE.bin"; please refer to Fig. 4; Fig. 4 Choosing upgrading file 5...

[Page 14](#) 6 Press "Run" shown as Fig. 4 to perform upgrading in two steps, "Erase" and "Program"; Normal upgrading process: The first step "Erasing... Flash Status: 03" will last for some time, or erasing is failed if the step passes over immediately; please confirm procedure 2) to perform upgrading again; The second step is "Programming... Flash Status:00";...

[Page 15: Working Principle Analysis](#)

Working Principle of the Unit 1 ATV PAL signal flow Receive RF PAL analog signal and sent it to XC5200C (D/A silicon Tuner controlled by main chip MSD309PX through I C bus) to be demodulated, then differential IF signal is send out to main chip MSD309PX analog demodulation to be demodulated to get analog CVBS video signal and SIF sound signal.

[Page 16](#) sent to main chip MSD309PX to be processed by acoustic effect processor and volume controller to get two parts of signals: the analog part of signal is sent to earphone power amplifier MAX9820 to be amplified and then outputted to earphone jack; the digital part of signal I2S is sent to digital audio power amplifier TAS5711 to be processed by D/A convertor and power amplifier, then outputted to drive speakers.

[Page 17: Block Diagram](#)

Block Diagram XC5200C LVDS Silicon Tuner HDMI1 w/ARC TAS5711 Audio HDMI2 Amplifier HDMI3 MSD309PX-LF YPbPr DDR2 Video In 512Mbit X 2PCS YPbPr Audio In Flash AV Audio In VGA Audio In SPDIF IN RS-232 POWER MAX232 SUPPLY...

[Page 18: Ic Block Diagram](#)

IC Block Diagram 1 TUNER IC XC5200C The Single-Chip Multi-Standard Tuner XC5200C supports all analog TV formats transmitted worldwide in the 42-1000 MHz band on either cable or terrestrial broadcast channels. It implements on-chip tuning, and channel filtering without external (SAW) filters and has no manually tunable parts. The broadband tuner converts the selected channel into an Intermediate Frequency (IF), which is then sampled by an internal high-resolution analog-to-digital converter (A/D) for further processing.

[Page 19](#) 2 AMP IC TAS5711 The TAS5711 is a 20-W, efficient, digital audio power amplifier for driving stereo bridge-tied speakers. One serial data input allows processing of up to two discrete audio channels and seamless integration to most digital audio processors and MPEG decoders.

[Page 20](#) 3 AUDIO IC MAX9820 The MAX9820 Windows Vista®-compliant stereo headphone amplifier is designed for portable Equipment where board space is at a premium. It features Maxim's DirectDrive® architecture to produce a ground-referenced output from a single supply, eliminating the large output-coupling capacitors required by conventional single-supply headphone amplifiers.

[Page 21: Wiring Diagram](#)

Wiring Diagram Panel TCON X503 X508 Panel X502 Board X501 Board LVDS X610 X604 X401 XV01 Main Board X601 X603 Debug...

[Page 22: Troubleshooting Flow Chart](#)

Troubleshooting Block Diagram 1 Panel doesn't light up. Supply with power, check if red indicator lights up in STANDBY state? Press key POWER on remote control or unit, check indicator. Check if 5V is supplied Blue to X601-PIN11 ? Check if level of X601-PIN13 on main Check STANDBY...

[Page 23](#) No picture, but backlight is normal: 2 Can control the TV set Press key MENU, by keys on remote can OSD display control or the unit? normally? Do no channel have picture at all? Enter into factory menu to initialize EEPROM, then cut off main power and then turn on the TV set again, check if there is picture?

[Page 24](#) No sound, but picture is normal: 3 No sound Check if level of Check there Check NV01-PIN19&25 signal inputted (signal input are all high? NV01-PIN15&20&21 circuits) on main &22 ? board. Check +24V on Check if level of Check power voltage power board.

[Page 25: Schematic Diagram](#)

N101 MSD309PX-LF-V1 N 1 0 2 N 1 0 6 K 4 T 1 G 1 6 4 Q E - H C F 7 K 4 T 1 G 1 6 4 Q E - H C F 7
MIUA MIUB Close to 309...

[Page 26](#) XB08 JY-3541L-01-030 XB02 AV6-8.4-13A-2 CB49 1u RB50 CB10 RB15 RB63 USB-D+
VGA-LIN XB06 001:B5 001:F4 YPBPR-RIN CB50 1u RB51 UBA-100/W 001:F4 RB64 USB-D- VGA-
RIN CB17 RB16 001:B6 001:F4 +5V_USB 180p CB57 Near MSD309 CB54 RB59 RB65 FUB01
180p 180p CB73 SMD1206L150THWR Near MSD309 CB74...

[Page 27](#) +5V-S +3.3V-S X603 +3.3V-S TJC10-04A R686 1-4: Common IR X604 +3.3V-S R645
1-7: Intell IR TJC10S-07A RV26 RV27 R648 R647 X601 If use PWM control panel, R617 X602
+5V-S +3.3V-S TJC3S-13A R637 V607 001:B4 then del C612,C721 and C614 R624 R621
2SC4081 UART-RX...

[Page 28](#) +3.3V_TUNER2 +1.8V_TUNER N101 MSD309PX-LF-V1 +3.3V_TUNER2 JUMPER R237
+1.8V_TUNER PCMCIA JUMPER GND-D GND-D +3.3V_TUNER2 PAD_PCM_D[0] PAD_TS1_D[0]
C242 AD14 R230 R246 PAD_PCM_D[1] PAD_TS1_D[1] C227 C228 C229 C231 AD15 100n 100n
100n 100n PAD_PCM_D[2] PAD_TS1_D[2] C206 SYS_RESET AD12 AC15 GND-D 100p
PAD_PCM_D[3] PAD_TS1_D[3] 004:B3 AC12 AC16...

[Page 29](#) Power board...

[Page 30](#) APPENDIX-A: Main assembly 9240KI5213 LCD-40XZ11F NAME MAIN COMPONENT
AND IT'S NO. N101 MSD309PX-LF-SV (5270309003) Main processing N102,N106
NT5TU32M16DG_AC(5273216001) XI6KI01301A0 board N613 XC5200C (5275200002) NV01
TAS5711 (5275711001) IR board XI635KI01002 Key board XI635KI01001 Power board
XI6KI0132010 Remote control XI6010900802 RC-908-0A RC-S071...

[Page 31: Appendix-B: Exploded View](#)

APPENDIX-B: Exploded view (LCD-40XZ11F)

[Page 32](#) PART LIST OF EXPLODED VIEW REF.No. DESCRIPTION Pedestal assembly Standing
pole Power board assembly Interface baffle (down) Main board assembly Interface baffle (right)
Speaker assembly IR assembly Front cabinet assembly Power switch assembly Display panel
Key board assembly Panel holder assembly Back cover assembly Note: Design and specification
are subject to change without notice.

[Page 33](#) PART LIST LCD-40XZ11F ver. REF.No. PARTS No. DESCRIPTION Q'TY REMARK
XI6151213000 Pedestal assembly Standing pole XI58D0029010 Power board assembly
XI6KI0132010 XI5810V72200 Interface baffle (down) Main board assembly XI6KI01301A0
XI5810P72110 Interface baffle (right) Speaker assembly XI6170891000 IR assembly
XI635KI01002 XI6640520230 Front cabinet assembly...

[Page 34](#) Appendix: Installing the Stand If the stand is provided, please read these instructions
thoroughly before attempting this installation. You must install your TV into the stand in order
for it to stand upright on a cabinet or other flat surface. If you intend to mount your TV on a wall
or other vertical surface, you must remove the stand column.

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This manual is also suitable for:

1 682 351 37

