

TOSHIBA

Toshiba 14DL74 Service Manual

Service manual

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FILE NO. 050-200414

SERVICE MANUAL
TOSHIBA

LCD TELEVISION

14DL74 / 20DL74

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Related Manuals for Toshiba 14DL74

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14" diagonal 4:3 lcd monitor (2 pages)

[Monitor Toshiba 20DL74 Specifications](#)

20" diagonal 4:3 lcd monitor (2 pages)

[LCD TV Toshiba 14VL43U Owner's Manual](#)

Toshiba lcd tv owner's manual 14vl43u, 20vl43u (32 pages)

[LCD TV TOSHIBA 14VL44 Series Owner's Manual](#)

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[LCD TV Toshiba 14VL43C Owner's Manual](#)

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[LCD TV Toshiba 20VL43P Service Manual](#)

(39 pages)

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(105 pages)

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Televisor de lcd con alta definici3n integrada (60 pages)

[LCD TV Toshiba 32E20U Owner's Record](#)

Lcd television integrated high definition (68 pages)

[LCD TV Toshiba 15DL72 Service Manual](#)

(57 pages)

[LCD TV Toshiba 15VL56B Service Manual](#)

Lcd color television toshiba 15vl56b; 20vl56b; 20vl56g (77 pages)

[LCD TV Toshiba 19AV613D Owner's Manual](#)

Digital series (43 pages)

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Summary of Contents for Toshiba 14DL74

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FILE NO. 050-200414 SERVICE MANUAL LCD TELEVISION 14DL74 / 20DL74 DOCUMENT CREATED IN JAPAN, May, 2004...

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[Page 3: Warnings](#)

WARNINGS Take care to heed the following warnings: Always advise users to keep children away. There is danger of injury to children from tools, disassembled products, etc. **KEEP CHILDREN AWAY** Always disconnect the power plug before starting work whenever power is not Unplug required.

[Page 4: Service Safety Precautions](#)

SERVICE SAFETY PRECAUTIONS The caution items shown here describe major safety issues and should always be observed. The meanings of the various indications are as follows. Indicates a hypothetical situation in which service personnel and nearby third parties, or even end users due to a product defect after the service operation is completed, could possibly be in danger of injury or even death in the event of operational error.

[Page 5: Handling The Lcd Module](#)

HANDLING THE LCD MODULE Safety Precautions 4. Leaving water or other fluids on the panel screen for an extended In the event that the screen is damaged or the liq- period of time can result in discol- uid crystal (fluid) leaks, do not breathe in or drink oration or stripes.

[Page 6: Location Of Controls](#)

LOCATION OF CONTROLS TV Front VOLUME +/- Channel Power button TV/VIDEO Blue LED Indicator (Power On) Red LED Indicator Headphones Jack (Stand by) TV Rear Audio Output (R) Audio (R) Audio Output (L) Audio (L) Video Audio (R) S-Video Audio (L) Video S-Video ANT In...

[Page 7: Remote Control](#)

Remote Control The illustration shown displays the Remote Control Buttons. **POWER** turns the TV on and off. **MUTE** turns the sound on and off. TV selects TV antenna as the input signal. **AV1/AV2** selects the AV input signal from one of these connectors. Number Buttons allow direct access to channel positions.

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LAYOUT OF MAJOR BOARDS Key/control board Main board Inverter board Light receiving board...

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MECHANICAL DISASSEMBLY...

[Page 12: Packing Disassembly](#)

PACKING DISASSEMBLY...

[Page 13: Wiring Connection Diagram](#)

WIRING CONNECTION DIAGRAM Key/control board Inverter board Main board Light receiving board Right speaker Left speaker...

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CIRCUIT BOARD DIAGRAMS MAINBOARD 0171-4...

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[Page 18: Key/Control Board](#)

KEY/CONTROL BOARD LIGHT-RECEIVING BOARD...

[Page 19: Earphone Board](#)

EARPHONE BOARD...

[Page 20: Schematic Diagrams](#)

SCHEMATIC DIAGRAMS BEFORE SERVICING THIS CHASSIS, READ THE WARNINGS AND CAUTIONS IN THE PREFACE. WARNING The international hazard symbols in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

[Page 21: Block Diagram](#)

BLOCK DIAGRAM...

[Page 22: Standard Mcu](#)

STANDARD MCU C373 C372 C360 P0.3/AD3 P2.4/A12 P0.2/AD2 P2.3/A11 P0.1/AD1 P2.2/A10 P0.0/AD0 P2.1/A9 P2.0/A8 P1.0/T2 P1.1/T2EX XTAL1 P1.2 XTAL2 P1.3 P3.7/RD P1.4 P3.6/WR...

[Page 23: Scaler](#)

SCALER GNDP GOUT1 GNDP MD15 MD15 GOUT0 MD14 MD14 LDTG MD13 MD13 LVSYNC MD12 MD12 LHSYNC MD11 MD11 MD10 MD10 VDDP GNDP GNDP VDDP GNDP CPUA15 VDDP GNDP LCKA TMCLK RST# LCKB GPIOA0 GNDP GPIOA1 GPIOA2 VDDP GPIOA3 GPIOA4 GPIOA5 CSYNC TDCLK HSYNCI...

[Page 24: Scaler Memory](#)

SCALER MEMORY...

[Page 25: Video Decoder](#)

VIDEO DECODER VCC9 VCC9 R200 C286 R201 C287 10K/0603 C285 10K/0603 104P/0603/Y5V/50V 10UF/25V/4*5 104P/0603/Y5V/50V R202 R203 R204 R205 CVBS_OUT Q30 SMBT3904/SOT23 SMD AV_YC_Y Q31 SMBT3904/SOT23 SMD CVBS_OUT AV_YC_Y 51/0603 51/0603 C289 10/0603 R207 C288 NL252018 3.3UH/1206/SMD 10/0603 R210 NL252018 3.3UH/1206/SMD R206 COMPOSITE R209...

[Page 26: V-Chip & Cc](#)

V-CHIP & CC R230 4.7K/0603 SMBT3904/SOT23 SMD R231 10K/0603 3230 HS R232 R233 6.8K/0603 OSDB 12 3.3K/0603 R234 6.8K/0603 OSDG 12 R235 6.8K/0603 1.5K/0603 1.5K/0603 OSDR 12 R236 R237 C345 R238 1.5K/0603 MLB-160808-0120L-N2/0603 100P/0603/NPO/50V C346 C347 100P/0603/NPO/50V 100P/0603/NPO/50V MLB-160808-0120L-N2/0603 0/0603 R239 I2C_SEL BOX 12 R241...

[Page 27: Audio Processor](#)

AUDIO PROCESSOR...

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POWER AMPLIFIER...

[Page 29: Av Switch](#)

AV SWITCH R141 470K/0603 R140 470K/0603 R139 470K/0603 R138 470K/0603...

[Page 30: Ntsc Tuner](#)

NTSC TUNER CASE CASE CASE CASE AF/MPX CVBS...

[Page 31: Usa Mts](#)

USA MTS 2.2uF/50V/4*7 MTS_OUT_L 6 MLB-160808-0080A-N2 470K/0603 NI/0603 100P/0603/NPO/50V 2.2uF/50V/4*7 2.2uF/50V/4*7 MTS_OUT_R 6 MLB-160808-0080A-N2 10uF/25V/4*5 NI/0603 100P/0603/NPO/50V 470K/0603 WB TIME WB DET L-OUT 0.33uF/50V/5*11 4.7K/0603 3.3uF/50V/5*11 SPE TIME R-OUT 104P/0603/X7R/16V SPE DET AGC DET 33uF/50V/5*7 SPE FIL SCL/STID I2C_SCL 9 223P/0603/X7R/50V 100/0603 I2C/PARA...

[Page 32: Panel Connector](#)

PANEL CONNECTOR...

[Page 33: Power Systems](#)

POWER SYSTEMS ZD10V/0.5W/SMD OUT2 OUT1 CMP2 CPM1 2IN+ 1IN+ 2IN- 1IN_ VREF...

[Page 34: I/O Connector](#)

I/O CONNECTOR 104P/0603/Y5V/50V C118 104P/0603/Y5V/50V C117 104P/0603/Y5V/50V C116 104P/0603/Y5V/50V C115 104P/0603/Y5V/50V 10K/0603 C114 10K/0603 104P/0603/Y5V/50V C113 104P/0603/Y5V/50V C112 104P/0603/Y5V/50V C111 104P/0603/Y5V/50V C110...

[Page 35: Usa 480P](#)

10K/0603 1318_VS VD3-IN DGND 10K/0603 HD3-IN 1318_HS CP-OUT HD1-OUT 100uF/25V/6*11 TA1318AF SMD 103P/0603/Y5V/50V C130 C363 NI/0603 22P/0603/NPO/50V VCC9 0171-4 TOSHIBA USA Version 5.1K/0603 2SC4116/SOT23 For AU 20" Panel 22uF/25V/4*5 1K/0603 5.1K/0603 USA 480P Title Size Document Number MST9883 Date: Sheet...

[Page 36: Ir Board](#)

IR BOARD 5VSB 5VSB IR_RECIVER BAV99/SMD 5VSB 100UF/10V 5VSB CON5 BAV99/SMD LED_R 5VSB BAV99/SMD BLUE_LED_B...

[Page 37: Earphone Board](#)

EARPHONE BOARD...

[Page 38: Keypad Board](#)

KEYPAD BOARD...

[Page 39: Chassis And Cabinet Replacement Parts List](#)

NOTICE: The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description. 14DL74 Safety Location No. TOSHIBA SN Parts No. (GOLANA) Description Specification U001...

[Page 40: 20DL74](#)

Safety Location No. TOSHIBA SN Parts No. (GOLANA) Description Specification Y151 72001926 EW12-HUS2000000 AC Power Cord SP-12A+IS-038A L=2M 72001927 K901 EFA1-8640014000 Remote Control-English CT-864-CN14 E901 72001905 EPBT-140TAU0000 Panel TFT AU 14" T140VN01 34*34 6Ω [/5W(MAX) L=28/ W601 72001906 EF61-3400500604 Square Speaker 14"(B)

[Page 41: Specifications](#)

Power Consumption 14DL74: 42W (average) 20DL74: 48W (average) Display TFT Active Matrix LCD 14DL74: VGA 640 (H) dots x 480 (V) dots 20DL74: VGA 800 (H) dots x 600 (V) dots Audio Power 2.5W + 2.5W Speaker Type 3.4 x 3.4 cm...

[Page 42](#) TOSHIBA CORPORATION 1-1, SHIBAURA 1- CHOME, MINATO-KU, TOKYO 105-8001, JAPAN...

This manual is also suitable for:

20dl7420dl74svm

