



Toshiba 42HP84 Service Manual

Plasma color television

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TOSHIBA
SERVICE MANUAL

Plasma Color Television

42HP84



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Summary of Contents for Toshiba 42HP84

[Page 1](#) All manuals and user guides at all-guides.com FILE NO. 020-200417 SERVICE MANUAL Plasma Color Television 42HP84 DOCUMENT CREATED IN JAPAN, Oct., 2004...

[Page 2: Table Of Contents](#)

All manuals and user guides at all-guides.com TABLE OF CONTENTS SERVICE SAFETY
PRECAUTIONS 3 IMPORTANT INFORMATION 5 CLEANING
..... 6 SERVICE MODE 7 TROUBLESHOOTING DIAGNOSIS
FUNCTION ELECTRICAL ADJUSTMENTS LOCATION OF
CONTROLS 11 LAYOUT OF MAJOR BOARDS 13 MECHANICAL
DISASSEMBLY

[Page 3: Service Safety Precautions](#)

All manuals and user guides at all-guides.com 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 WARNING 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 4](#) All manuals and user guides at all-guides.com WARNING • 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 required. Failure to disconnect the power plug before starting work can result in electrical shock.

[Page 5: Important Information](#)

All manuals and user guides at all-guides.com IMPORTANT INFORMATION About Permanent after-image • Due to the characteristics of a plasma screen, if the same image is displayed for an extended period of time, permanent after-image (image retention) in part of the screen may result. As a result of accumulative effect, brightness deterioration results.

[Page 6: Cleaning](#)

All manuals and user guides at all-guides.com CLEANING Remove the power plug before cleaning. Do not use solvents such as benzine or thinner to clean the TV. – These solvents may distort the cabinet or damage its finish. – If rubber or vinyl products remain in contact with the TV for a long time, a stain may result.

[Page 7: Service Mode](#)

All manuals and user guides at all-guides.com SERVICE MODE ENTERING TO SERVICE MODE 1) Press the "MUTE" button once on the remote control, "1/2 MUTE" is displayed on the screen. 2) Press the "MUTE" button again, "MUTE" is displayed on the screen. 3) Press the "MENU"...

[Page 8: Troubleshooting Diagnosis Function](#)

All manuals and user guides at all-guides.com TROUBLESHOOTING DIAGNOSIS FUNCTION DIAGNOSIS FUNCTION FOR LED INDICATION CAUSE LED is lit in 1 second at Short-circuit detection of BUS line intervals of 1 second. BUS line may possibly be short-circuit (SDA to SCL), or BUS line (SDA, SCL) is grounded.

[Page 9](#) All manuals and user guides at all-guides.com SELF DIAGNOSIS FUNCTION 1) Press "9" button on the remote control during display of adjustment menu in the service mode. 2) During diagnosis, the following displays are shown. <SELF CHECK> NO. 23 ***** POWER : 000 TIME...

[Page 10: Location Of Controls](#)

All manuals and user guides at all-guides.com LOCATION OF CONTROLS TV front Power indicator Remote sensor POWER Left Right side panel side panel Channel yz /Menu yz VIDEO-3 INPUT Volume x • /Menu x • MENU TV/VIDEO HEADPHONE jack Power Cord Wall outlet 120V AC 60Hz ColorStream HD-2...

[Page 11](#) All manuals and user guides at all-guides.com Remote Control turns the TV on and off POWER allows access to the automatic TV shut-off function SLEEP The first press of the LIGHT button lights the keypad and turns LIGHT on the Illumination mode. With the Illumination mode on, pressing any other key lights the keypad for 5 seconds (10 seconds if you're in programming mode).

[Page 12: Layout Of Major Boards](#)

All manuals and user guides at all-guides.com LAYOUT OF MAJOR BOARDS U003 PCB KEY-SW PD1903A3 E950 MODULE, HDMI DIGITAL OUTPUT MHDM11 U008 PCB SCALLER PD1898A1 U007 PCB LOWB-AOUT PD1904A1 U800 UNIT, POWER SWITCHING U002 PCB FRONT-AV PD1903A2 U005 PCB POWER-SW PD1903A5 U001 PCB SIGNAL PD1903A1 U004...

[Page 13: Mechanical Disassembly](#)

All manuals and user guides at all-guides.com MECHANICAL DISASSEMBLY 1. Remove the stand (foot). A410 PP6 × 35 × 2 PP6 × 35 × 2 A403 2. Remove the back cover ass'y and AV cover. PP4 × 8 × 27 BITTB4 ×...

[Page 14](#) All manuals and user guides at all-guides.com 3. Remove the boards (SCALLER, LOEB-AOUT, POWER-SWITCHING), front AV, piece key ass'y and FAN motor. PP3 × 8 × 6 U800 PP3 × 8 × 5 U007 PP4 × 8 × 2 PP4 × 12 × 3 PP3 ×...

[Page 15](#) All manuals and user guides at all-guides.com PP5 × 12 × 2 BITTB4 × 12 × 2 5. Remove the display. PP5 × 12 × 3 PP5 × 12 × 2 BITTB4 × 12 × 2 PP5 × 12 × 3 BITTB4 ×...

[Page 16: Exploded View](#)

All manuals and user guides at all-guides.com EXPLODED VIEWS 1. Chassis Block BITTB4 × 12 × 14 A410 PP6 × 35 × 2 PP6 × 35 × 2 PP4 × 8 × 27 BITTB3 × 12 × 4 PP4 × 8 × 6 B205 PP3 ×...

[Page 17](#) All manuals and user guides at all-guides.com 2. Display panel Block PP5 × 12 × 2 BITTB4 × 12 × 2 PP5 × 12 × 3 PP5 × 12 × 2 BITTB4 × 20 × 2 BITTB4 × 12 × 2 PP5 × ...

[Page 18: Packing Disassembly](#)

All manuals and user guides at all-guides.com PACKING DISASSEMBLY A705 A701A A705 A702A A702A A703 K903 Y101 Y170 K903 Y180 A702B Y109 A702B A701B - 18 -...

[Page 19: Chassis And Cabinet Replacement Parts List](#)

• The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description. * • The PC board assembly with mark is no longer available after the end of the production. Model : 42HP84 Capacitors CD Ceramic Disk : Plastic Film : Electrolytic Resistors

[Page 20](#) All manuals and user guides at all-guides.com Location Location Parts No. Description Parts No. Description C8351 24539104 PLASTIC FILM, 50V 0.1UF J CV05 24092621 CERAMIC CHIP, 10V B 1UF K CB01 24794470 ELECTROLYTIC, 16V 47UF M CV06 24092621 CERAMIC CHIP, 10V B 1UF K CB51 24590103 PLASTIC FILM, 50V 0.01UF J...

[Page 21](#) All manuals and user guides at all-guides.com Location Location Parts No. Description Parts No. Description RESISTORS R6003 24011101 CHIP, METAL FILM, 1/20W 100 OHM J R103 24011101 CHIP, METAL FILM, 1/20W 100 OHM J R6004 24011101 CHIP, METAL FILM, 1/20W 100 OHM J R104 24011103 CHIP, METAL FILM, 1/20W 10K OHM J...

[Page 22](#) All manuals and user guides at all-guides.com Location Location Parts No. Description Parts No. Description RC13 24011821 CHIP, 1/20W 820 OHM J RV01 24011101 CHIP, METAL FILM, 1/20W 100 OHM J RC14 24011821 CHIP, 1/20W 820 OHM J RV03 24011101 CHIP, METAL FILM, 1/20W 100 OHM J RS16 24011473...

[Page 23](#) All manuals and user guides at all-guides.com Location Location Parts No. Description Parts No. Description RY512 24011222 CHIP, METAL FILM, 1/20W 2.2K OHM J LV13 23246253 INDUCTOR, CHIP 10MMH K COLTRF4100CN RY513 24011152 CHIP, METAL FILM, 1/20W 1.5K OHM J LV120 23277002 CORE, COMON MODE FILTER ACM3225-102-2PT100...

[Page 24](#) 23314993 TRANSISTOR, 2SC4081 Q B001A 23405400 OPTICAL FILTER, PDP42V 45% MCI TSM42-04 QV006 23314993 TRANSISTOR, 2SC4081 Q B205 23940176 PIECE, AV COVER 42HP84 QV007 23314993 TRANSISTOR, 2SC4081 Q B211 23717215 SCREW, PP3X8+SW+W ECO 42HP84 QV01 23009940 IC, VIDEO S/W MM1630AQ...

[Page 25](#) K903 23306465 REMOCON HAND UNIT Y101 23566436 OWNERS MANUAL, ENG/FRE/SPA 42HP84 CABINET PARTS A201 23532968 COVER, FRONT COVER ASSY 42HP84 A212 23940043 PIECE, CAP P SWITCH 32L400V A219 23445876 BUTTON, BUTTON POWER ASSY 42HP84 A220 23940170 PIECE, FRONT AV ASSY 42HP84...

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[Page 27](#) All manuals and user guides at all-guides.com SIGNAL BOARD PD1903A1 (U001) TOP (COMPONENT) SIDE ACDETECT MUTE_SPK P520 PR80 MUTE_A PJ13A P816B PD1903 P817B CS503 RS504 Q6003 Y_E3_GND RS505 GR502 23590099 C6075 C6088 RS507 CS505 Y_E3 L6004 Q6003 C_E3_GND CS503 RS504 XY501 C6075 C6088...

[Page 28](#) All manuals and user guides at all-guides.com FRONT-AV PD1903A2 (U002) KEY-SW PD1903A3 (U003) LED/RMT PD1903A4 (U004) BOTTOM (FOIL) SIDE BOTTOM (FOIL) SIDE BOTTOM (FOIL) SIDE E3-R E3-L E3-V POS UP POS DN VOL UP VOL DN MENU VIDEO PV61 PV60 PJ22A SA01 P661...

[Page 29](#) All manuals and user guides at all-guides.com POWER-SW BOARD PD1903A5 (U005) BOTTOM (FOIL) SIDE R-1786 23547702 S801 PJ60A POWER-SW BOARD PD1903A5 (U005) BOTTOM (FOIL) SIDE PD1903 23590099 S801 3 2 1 PJ60A - 32 - - 33 -...

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BOTTOM (FOIL) SIDE D898 D897 D899 R898 R897 R899 C899 C681 P808A R677 D832 C622
R680 PROTECT Q829A R673 R673 CCP-6400 C682 D833 C678 R676 Q829 Q610 23547703 R838
L839 D896 R671...

[Page 31](#) All manuals and user guides at all-guides.com SCALLER BOARD PD1898A1 (U008)
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TOP (COMPONENT) SIDE - 38 - - 39 -...

[Page 33](#) All manuals and user guides at all-guides.com SCHEMATIC DIAGRAM MODEL :
42HP84 WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION
PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON THE MANUAL FOR
THIS MODEL. CAUTION: The international hazard symbols "...

[Page 34](#) All manuals and user guides at all-guides.com SCHEMATIC DIAGRAM STRUCTURE
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[Page 36: Specifications](#)

All manuals and user guides at all-guides.com SPECIFICATIONS Television System HDMI INPUT:
NTSC standard HDMI compliant (type A connector) HDCP compliant Channel Coverage E-EDID*
compliant VHF: 2 through 13 Suggested scan rates: 1080i, 480p, 480i, 720p UHF: 14 through 69
HDMI Audio: 2-channel PCM Cable TV: Mid band (A-8 through A-1, A through I) 32/44.1/48 kHz
sampling freque...

[Page 37](#) All manuals and user guides at all-guides.com TOSHIBA CORPORATION 1-1,
SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105-8001, JAPAN...