



Toshiba 42HP83 Service Manual

Plasma color television

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FILE NO. 010-200314

SERVICE MANUAL **TOSHIBA**

Plasma Color Television



42HP83

TOSHIBA

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All manuals and user guides at all-guides.com TABLE OF CONTENTS SERVICE SAFETY PRECAUTIONS 3 IMPORTANT INFORMATION 5 CLEANING 6 LOCATION OF CONTROLS7 LAYOUT OF MAJOR BOARDS9 MECHANICAL DISASSEMBLY10 EXPLODED VIEW16 PACKING 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: Location Of Controls](#)

All manuals and user guides at all-guides.com **LOCATION OF CONTROLS** Power indicator TheaterLink TV front (IR pass through) Remote sensor Push up Push up Left pocket panel Right pocket panel TV/VIDEO MENU VOLUME CHANNEL POWER VIDEO-3 IN HEADPHONE AUDIO S-VIDEO VIDEO L/MONO MENU...

[Page 8](#) All manuals and user guides at all-guides.com Remote Control POWER turns the TV on and off. SLEEP allows access to the automatic TV shut-off function . LIGHT The first press of the LIGHT button lights the keypad and turns on the Illumination mode.

[Page 9: Layout Of Major Boards](#)

All manuals and user guides at all-guides.com **LAYOUT OF MAJOR BOARDS** E001 U006E SCALER BLOCK G-HYPER Module U003 U800 LOWB1 Board MAIN POWER Module U006C U004 OSD/MICON LOWB2 Board U005 A-OUT Board U006A U006B FRONT/AV Board KEY Board E003 DVI Board U801 SUB POWER Module U001A...

[Page 10: Mechanical Disassembly](#)

All manuals and user guides at all-guides.com **MECHANICAL DISASSEMBLY** ■ Removing the rear cover Note: Be sure to lay down the main body (by placing its screen downward) for disassembling. • Remove 25 screws (A). • Remove 16 screws (B). •...

[Page 11](#) All manuals and user guides at all-guides.com ■ Removing the speakers Remove 4 screws. Remove 4 screws. Remove 2 screws. Remove 2 screws. Remove 4 screws. Remove 4 screws. – 11 –...

[Page 12](#) All manuals and user guides at all-guides.com ■ Removing the back terminal panel • Remove 9 screws encircled in red. • Remove 4 screws enclosed in red squares. ■ Removing the BACK/AV board • Remove 2 screws. BACK/AV Board TIF-MA Board –...

[Page 13](#) All manuals and user guides at all-guides.com ■ Removing the A-OUT board and SUB POWER UNIT SUB POWER UNIT A-OUT board Remove 6 screws. Remove 4 screws. – 13 –...

[Page 14](#) All manuals and user guides at all-guides.com ■ Removing the chassis block • Remove 6 screws. Chassis Block – 14 –...

[Page 15](#) All manuals and user guides at all-guides.com ■ Removing the FRONT/AV board and KEY board Board FRONT/AV Board – 15 –...

[Page 16: Exploded View](#)

A210 A213 PIECE, CONTROL BOX, AV REAR PIECE, CONTROL BOX, KEYREAR A211 A207 A208 A212 PIECE, CONTROL BOX , KEY FRONT ASSY, 42HP83 A407 WIRE HOLDER, NYLON66 D6.8 PIECE, CONTROL BOX, AV FRONT ASSY 42HP83 A201 BEZEL, 42HP83 A532 A205 DECORATIVE, GLASS SIDE –...

[Page 17: Packing Disassembly](#)

All manuals and user guides at all-guides.com **PACKING DISASSEMBLY** A701A A702 K903 Y101

[Page 18: Troubleshooting](#)

All manuals and user guides at all-guides.com TROUBLESHOOTING NO SOUND (All source) Disconnection of SPK, (A-OUT) or the defect of SPK P601 #2 (Lch)or #4(Rch) OK? Change the SPK. (A-OUT) (A-OUT) Check the MUTE_AUDIO P610A #1 (Lch) or #2 (Rch) Q610 #5 (MUTE) is Low (0V)? line.

[Page 19](#) All manuals and user guides at all-guides.com NO POWER ON Relay sounds? Check 5V-1. Check the #9 of P807 by disconnecting M807. Replace PFT-422. Check the Microcontroller, POWER_TV is HIGH Light Receiving Unit and after connecting the M807 peripherals. again? Check Q819, D819 and peripherals of LOWB1.

[Page 20: 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 : 42HP83 Capacitors CD Ceramic Disk : Plastic Film : Electrolytic Resistors

[Page 21](#) All manuals and user guides at all-guides.com Location Location Parts No. Description Parts No. Description C876 24617030 ELECTROLYTIC, 16V 2200UF M CE50 24617043 ELECTROLYTIC04CH 35V 1000UF M C880 24669100 ELECTROLYTIC, 50V 10UF M 3A CE51 24539104 PLASTIC FILM, 50V 0.1UF J C881 24666470 ELECTORLYTIC, 16V 47UF M 3A...

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[Page 23](#) All manuals and user guides at all-guides.com Location Location Parts No. Description Parts No. Description R819 24366102 CARBON FILM, 1/6W 1K OHM J RB53 24011123 CHIP, METAL FILM, 1/20W 12K OHM J R820 24367681 CARBON FILM, 1/6W 680 OHM G RB54 24011123 CHIP, METAL FILM, 1/20W 12K OHM J...

[Page 24](#) All manuals and user guides at all-guides.com Location Location Parts No. Description Parts No. Description RS29 24011102 CHIP, METAL FILM, 1/20W 1K OHM J RV15 24011101 CHIP, METAL FILM, 1/20W 100 OHM J RS30 24011102 CHIP, METAL FILM, 1/20W 1K OHM J RV17 24011101 CHIP, METAL FILM, 1/20W 100 OHM J...

[Page 25](#) All manuals and user guides at all-guides.com Location Location Parts No. Description Parts No. Description RV352 24011680 CHIP, METAL FILM, 1/20W 68 OHM J RY551 24011182 CHIP, METAL FILM, 1/20W 1.8K OHM J RV353 24011680 CHIP, METAL FILM, 1/20W 68 OHM J RY552 24011152 CHIP, METAL FILM, 1/20W 1.5K OHM J RV354 24011680...

[Page 26](#) All manuals and user guides at all-guides.com Location Location Parts No. Description Parts No. Description LY501 23246398 COIL, CHIP INDUCTOR 10MMH K COLTRF4100CV QS14 23114499 TRANSISTOR, RN1404 QS15 23314993 TRANSISTOR, 2SC4081 Q SEMICONDUCTORS QS16 23114493 TRANSISTOR, RN2404 Q131 23314204 TRANSISTOR, 2SC2412K, Q QS17 70114396 TRANSISTOR, 2SC3326B...

[Page 27](#) All manuals and user guides at all-guides.com Location Location Parts No. Description Parts No. Description D846 23316782 DIODE, ZENER, MTZJ6.2C GRV12 24000445 CHIP JUMPER, 1608TYPE D870 23316637 DIODE, SCHOTTKY, FMB-G14L GRV13 24000445 CHIP JUMPER, 1608TYPE D870B 70391355 SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN GRV14 24000445 CHIP JUMPER, 1608TYPE D870C 23960136...

[Page 28](#) Y170 23845800 WIRE HOLDER, NYLON66 D6.8 Y180 23542012 MC CLOTH, MC24-TDM-1P CABINET PARTS A201 23532139 BEZEL, 42HP83 A205 23433251 DECORATIVE, GLASS SIDE A207 23929028 PIECE, CONTROL BOX, KEYREAR A208 23929067 PIECE, CONT BOX KEY FRONT ASSY 42HP83 - 28 -...

[Page 29: Pc Boards](#)

All manuals and user guides at all-guides.com P520 PB22A P102A RV100 PA05A RV100 C679

RV101 R679 C632 Q675 R696 RV101 C669 R687 R678 LV42 RB42 RB39 CV40 QV20
TUNER_GND CB46 CB42 R601 CB46 CV67 L_HP RB43 R664 RB44 CV42 CV42 QV13 QV14
QB46...

[Page 30](#) All manuals and user guides at all-guides.com C662...

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DS102 R131 RS517 RS516 R131 RS516 CS510 RS517 R132 R132 CS501 CS501 C127 +32V IF
AGC C122 C122 R121 A OUT R121 R133 R120 R133 R120 Q131 RFAGC V OUT R134 R134...

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RB52 CB61 RB55 QB52 DB54 CB59 CB55 RB58 RB57 CB54 23547442 ELC-4970...

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GJ50 JP005 CE52 LE53 LE54 CE56 CE55 RE52 DE53 RE41 DE57A DE52 CE41 DE57 DE40A CE42
DE43 RE42 CE46 LE43 JP009 Q823 DE42 L836 C841 D835A C838 D835 R835 D844...

[Page 34](#) All manuals and user guides at all-guides.com LOWB2 BOARD PD1340 BOTTOM
(FOIL) SIDE PROTECT GND(12V) GND(12V) C891 C890 GND(12V) Q870A Q860A Q890 Q870
Q860 C871 C861 Q890A 9V_FAN G872 G862 R891 POW_FAN STOP_FAN STOP_FAN D891 D860
C874 C864 P819 D870 9V_FAN R893 D892...

[Page 35](#) All manuals and user guides at all-guides.com BACK/AV BOARD PD1358 BOTTOM
(FOIL) SIDE DB76 RV376 RV377 GRS04 RC07 CC17 RC14 R288 GRS03 RV372 RV373 RV374
RV375 RC13 CC16 RC05 CC14 RC12 R266 GRS10 RV368 RV369 RV370 RV371 RC03 CC03 RV40
RV364 RV365 RV366...

[Page 36](#) All manuals and user guides at all-guides.com BACK/AV BOARD PD1358 TOP
(COMPONENT) SIDE - 41 -...

[Page 37](#) All manuals and user guides at all-guides.com A-OUT BOARD PD1359 BOTTOM (FOIL)
SIDE 23547444 CCP-6400 C680 C682 C685 R685 C685 R685 P601 C684 C681 C684 L_AUDIO
C675 C676 P809A 26V(AUDIO) R_AUDIO C688 R675 R675 R681 26V(AUDIO) Q671 C666 R681
26V(AUDIO) R670 C621 C674...

[Page 38](#) All manuals and user guides at all-guides.com A-OUT BOARD PD1359 TOP
(COMPONENT) SIDE PD1359 23599762A C680 C682 SPK_R/L C681 P601 POWER L_AUDIO C675
C676 P809A C674 C666 R_AUDIO C688 JP005 C665 C671 P610A C664 P604B - 43 -...

[Page 39](#) All manuals and user guides at all-guides.com FRONT/AV BOARD PD1360-1 BOTTOM
(FOIL) SIDE PV60 P661 PY630 GR605 CC10 GRV12 CC10 CC09 GR195 R688 D650 D651 D650
C605 L601 C659 CC45 CY651 TZ-1 PV25B CY650 P613B 23547445 11 10 9 8 7 6 5 4 3 2 1 TOP
(COMPONENT) SIDE PV60 23599763A...

[Page 40](#) All manuals and user guides at all-guides.com POW SW BOARD PD1360-4 BOTTOM
(FOIL) SIDE P802A S801 TOP (COMPONENT) SIDE PD1360 S801 P802A 23599763A G-HYPER
BOARD PD1360-5 BOTTOM (FOIL) SIDE PX01 PY02 PX01B TZ-1 23547445 TOP (COMPONENT)
SIDE PY02 PX01 PX01B -...

[Page 41: Specifications](#)

All manuals and user guides at all-guides.com SPECIFICATIONS Plasma Colour TV Television
System NTSC standard Channel Coverage VHF : 2 through 13 UHF : 14 through 69 Cable TV :
Mid band (A-8 through A-1, A through I) Super band (J through W) Hyper band (AA through ZZ,
AAA, BBB) Ultra band (65 through 94, 100 through 125) Power Source...

[Page 42](#) All manuals and user guides at all-guides.com TOSHIBA CORPORATION 1-1,
SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105-8001, JAPAN...