



Toshiba 42HP83 Service Manual

Toshiba 42hp83 plasma color television service manual

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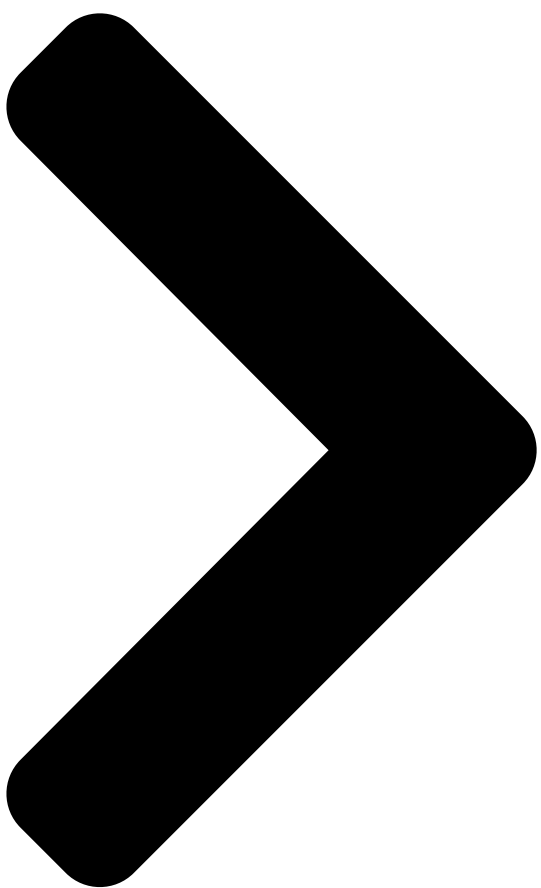
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FILE NO. 010-200314

SERVICE MANUAL
TOSHIBA
Plasma Color
Television

42HP83 TOSHIBA

DOCUMENT CREATED IN JAPAN, Nov., 2003

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(61 pages)

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42" digital plasma color television (89 pages)

Summary of Contents for Toshiba 42HP83

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[Page 3: 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 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](#) 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. UNPULUG •...

[Page 5: Important Information](#)

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](#)

CLEANING Remove the power plug before cleaning. Do not use solvents such as benzene 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](#)

LOCATION OF CONTROLS TheaterLink Power indicator 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 POWER Headphones Channel TV/VIDEO VIDEO-3 jack Menu...

[Page 8](#) 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. With the Illumination mode on, pressing any other key lights the keypad for 5 seconds (10 seconds if you're in programming mode).

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

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 SIGNAL Board U001C...

[Page 10: Mechanical Disassembly](#)

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). • Remove 6 screws (C). – 10 –...

[Page 11](#) ■ Removing the speakers Remove 4 screws. Remove 4 screws. Remove 2 screws. Remove 2 screws. Remove 4 screws. Remove 4 screws. – 11 –...

[Page 12](#) ■ 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 – 12 –...

[Page 13](#) ■ Removing the A-OUT board and SUB POWER UNIT SUB POWER UNIT A-OUT board Remove 6 screws. Remove 4 screws. – 13 –...

[Page 14](#) ■ Removing the chassis block • Remove 6 screws. Chassis Block – 14 –...

[Page 15](#) ■ 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](#)

PACKING DISASSEMBLY A701A A702 K903 Y101 A702 A703 Y109 A702 A705 A702 A701B A705 – 17 –...

[Page 18: Troubleshooting](#)

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](#) 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. Replace PFT-422.

[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](#) 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 CE52 24214221 CERAMIC DISC, 500V B 220PF K...

[Page 22](#) Location Location Parts No. Description Parts No. Description CV38 24109102 CERAMIC CHIP, 50V B 1000PF K CY516 24109103 CERAMIC CHIP, 50V B 0.01UF K CV39 24109102 CERAMIC CHIP, 50V B 1000PF K CY517 24092731 CERAMIC CHIP, 16V B 1UF K CV40 24794101 ELECTROLYTIC, 16V 100UF M...

[Page 23](#) 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 R821 24367220 CARBON FILM, 1/6W 22 OHM G...

[Page 24](#) 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 RS31 24011104 CHIP, METAL FILM, 1/20W 100K OHM J...

[Page 25](#) 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 CHIP, METAL FILM, 1/20W 68 OHM J RY553 24011330...

[Page 26](#) 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 Q151 23314994 TRANSISTOR, 2SA1576A106 QS18...

[Page 27](#) 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 ADHESIVE, SILICONE, TSE3843-W...

[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](#)

P520 PB22A P102A RV100 PA05A RV100 C679 R679 RV101 C632 Q675 RV101 R696 C669 R687 R678 LV42 RB42 RB39 CV40 QV20 TUNER_GND CB46 CB42 R601 CB46 CV67 L_HP RB43 R664 RB44 CV42 CV42 QV13 QV14 R_HP QB46 C645 RV79 RB45 RV79 R664 CB40...

[Page 30](#) GRV15 XY502 PV16 PV14 DE99 5V-A 3.3V RY521 RY521 CY508 RY520 RY520 CY524 QY501 C928 PV15 Q922 RV338 CY524 CY525 CY525 RI_OUT EXT_SYNC CY502 DV252 DV252 CY502 CY526 DV251 CY526 3.3V DV251 3.3V LV251 LV252 LV253 3.3V DV250 RV332 CV255 QY504 DV249 RV331...

[Page 31](#) P518A RFAGC C172 (nc) SCL1 RS507 RS507 DS102 SDA1 R131 RS517 RS516 R131 CS510 RS517 RS516 R132 R132 CS501 CS501 C127 +32V RESET_I MA R_AV L_AV AFT1 R_TV L_TV IF AGC C122 C122 V_TV R121 A OUT R121 R133 R120 R133 R120 Q131 RFAGC...

[Page 32](#) PD1357 23599760A DB03 CB53 CB51 BB01 CB60 DB51 DB51A DB51 RB52 RB52 QB54 QB53 RB70 RB69 CB61 RB71 RB69 RB71 RB70 BB01 RB55 QB52 DB54 CB55 CB59 RB58 RB58 RB57 CB54 QB01 RB05 RB05 RB04 RB04 23547442 ELC-4970...

[Page 33](#) 3.3VHDMI-D LE90 CE90 CE95 LE95 5VHDMI-D 5VHDMI-A LE51 9VHDMI RE50 RE92 RE91 RE97 RE96 DE50A JP002 RE22 RE51 JP003 GJ50 JP005 RE25 CE52 LE53 LE54 RE20 3.3VA C823 CE56 CE55 RE52 DE53 3.3VA 6.5VD C822 CE21 RE41 DE57A DE52 CE20 CE41 SHORT_LNB C821...

[Page 34](#) 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 L861 R860 D870A D860A R892 STOP_FAN R870...

[Page 35](#) BACK/AV BOARD PD1358 BOTTOM (FOIL) SIDE DB76 RB76 RV376 RV377 CC07 RC08 GRS08 GRS04 RC07 CC17 RC14 R288 R287 R286 GRS07 GRS03 RV372 RV373 RV374 RV375 RC13 CC16 CC05 RC06 RC05 CC14 RC12 R266 R265 GRS05 GRS10 RV368 RV369 RV370 RV371 R264 CC04...

[Page 36](#) BACK/AV BOARD PD1358 TOP (COMPONENT) SIDE - 41 -...

[Page 37](#) 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 R681 R675 R675 26V(AUDIO) Q671 C666 R681 26V(AUDIO) C621 R670 C674 26V(AUDIO) R673 R683 R673 R683 GND(AUDIO) R672...

[Page 38](#) 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](#) FRONT/AV BOARD PD1360-1 BOTTOM (FOIL) SIDE PV60 P661 PY630 GR605 GR605 GRV12 CC10 GRV12 CC09 CC10 CC09 GR195 R688 GR195 D650 L601 D650 D651 C605 L601 C659 D651 CC45 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](#) 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 - 45 -...

[Page 41: Specifications](#)

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 110-240 V AC, 50/60 Hz (See page 7.)

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