

TOSHIBA

Toshiba 32A36C Service Manual

1

2

3

Table Of Contents

4

5

6

7

8

9

10

11

12

13

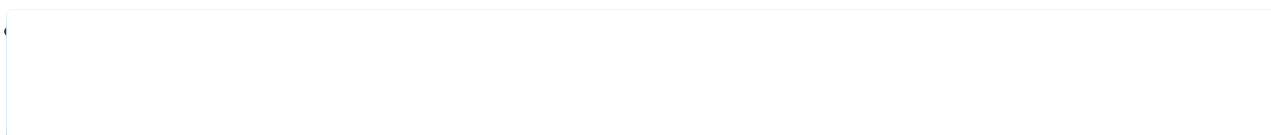
14

15

16

17

18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43



•

[Table of Contents](#)

•

Bookmarks

Quick Links

[Download this manual](#) See also: [Owner's Manual](#)



SERVICE MANUAL

COLOR ~~TELEVISION~~

The above model is classified as a green product (*1), as indicated by the underlined serial number. This Service Manual describes replacement parts for the green product. When repairing this green product, use the part(s) described in this manual and lead-free solder (*2).

For (*1) and (*2), see the next page.

FILE NO. 050-200619GR

(MFR'S VERSION A)

32A36C **TOSHIBA**

DOCUMENT CREATED IN JAPAN, April, 2006

[Table of Contents](#)

[Next Page](#)

1
2
3
4
5

Related Manuals for Toshiba 32A36C

[TV Toshiba 32A36C Owner's Manual](#)

Colorstream color television (64 pages)

[TV Toshiba 32A32 Owner's Manual](#)

Colorstream color television (35 pages)

[TV Toshiba 32A35 Specifications](#)

32" diagonal black color tv (2 pages)

[TV Toshiba 32A35 Service Manual](#)

(42 pages)

[TV Toshiba COLORSTREAM 32A35 Owner's Manual](#)

(36 pages)

[TV Toshiba 32A35C Owner's Manual](#)

Toshiba owner's manual color tv (32 pages)

[TV Toshiba 32A3000P Manual](#)

Lcd color television (129 pages)

[TV Toshiba 32AF41 Service Manual](#)

Color television (60 pages)

[TV Toshiba ColorStream 27AF41 Owner's Manual](#)

(38 pages)

[TV Toshiba 32A14 Service Manual](#)

Color television (30 pages)

[TV Toshiba 32AF43 Service Manual](#)

(40 pages)

[TV Toshiba 36AFX61 Service Manual](#)

Color television (40 pages)

[TV Toshiba 27A10 Owner's Manual](#)

Color stream color television (36 pages)

[TV Toshiba 32AV93*G DIGITAL Series User Manual](#)

Digital series (68 pages)

[TV Toshiba 32CV711B Owner's Manual](#)

Digital series (57 pages)

[TV Toshiba 32AF61 Schematic Diagram](#)

(28 pages)

Summary of Contents for Toshiba 32A36C

[Page 1: Service Manual](#)

(MFR'S VERSION A) SERVICE MANUAL COLOR TELEVISION 32A36C The above model is classified as a green product (*1), as indicated by the underlined serial number. This Service Manual describes replacement parts for the green product. When repairing this green product, use the part(s) described in this manual and lead-free solder (*2).

[Page 2: Green Product Procurement](#)

Hazardous Substances. From July 1, 2006, the RoHS Directive will prohibit any marketing of new products containing the restricted substances. Increasing attention is given to issues related to the global environmental. Toshiba Corporation recognizes environmental protection as a key

management tasks, and is doing its utmost to enhance and improve the quality and scope of its environmental activities.

[Page 3: Servicing Notices On Checking](#)

SERVICING NOTICES ON CHECKING 1. KEEP THE NOTICES 6. AVOID AN X-RAY As for the places which need special attentions, Safety is secured against an X-ray by consider- they are indicated with the labels or seals on the ing about the cathode-ray tube and the high cabinet, chassis and parts.

[Page 4: Table Of Contents](#)

TABLE OF CONTENTS GREEN PRODUCT PROCUREMENTA1-1 LEAD-FREE SOLDER
..... A1-1 SERVICING NOTICES ON CHECKINGA1-2 HOW TO ORDER PARTS
.....A1-2 IMPORTANTA1-2 A2-1 TABLE OF CONTENTS
.....GENERAL SPECIFICATIONSA3-1~A3-5 DISASSEMBLY INSTRUCTIONS
B1-1 1. REMOVAL OF ANODE CAP2.

[Page 5: General Specifications](#)

GENERAL SPECIFICATIONS CRT Size / Visual Size 32 inch / 800.1mmV System CRT Type Normal
Magnetic Field BV/BH +0.45G/0.18G Color System NTSC Speaker 2Speaker Position Front Size
1.8 x 3.9 Inch Impedance Sound Output 5.0 + 5.0 W 10%(Typical) NTSC3.58+4.43 /PAL60Hz
Tuning Broadcasting System System M...

[Page 6](#) GENERAL SPECIFICATIONS On Screen Menu Display Menu Type Icon Picture Contrast
Brightness Color Tint Sharpness Audio Bass Treble Balance BBE On/Off Stable Sound On/Off
Surround On/Off Set Up TV/CABLE(CATV) CH Program Add/Erase Option Language V-chip CH
Label Favorite CH Lock On/Off Timer Color Stream DVD/DTV Control Level...

[Page 7](#) GENERAL SPECIFICATIONS G-10 Remote Unit RC-GW Control Glow in Dark Remocon
Format Toshiba Remocon Format Toshiba Custom Code TV:40-BF h Power Source Voltage(D.C)
UM size x pcs UM-4 x 2 pcs Total Keys Keys Keys Power CH Up CH Down...

[Page 8](#) GENERAL SPECIFICATIONS G-11 Features Auto Degauss Auto Shut Off Canal+ CATV
Anti-theft Rental Memory(Last CH) Memory(Last Volume) V-Chip Type -- Type Auto Search CH
Allocation Just Clock Function CH Label VM Circuit Full OSD Premiere Comb Filter 3 Lines Auto
CH Memory Hotel Lock Closed Caption Stable Sound...

[Page 9](#) Edges / 4 Surfaces Height (cm) 40 (ORION SPEC:25) Container Stuffing Sets/40'
container G-17 Cabinet Material Cabinet Cabinet Front PS 94V0 DECABROM Cabinet Rear PS
94V0 DECABROM Non-Halogen Demand Eyelet Demand G-18 Environment Environmental
standard requirement Green procurement of TOSHIBA Pb-free Phase3(Phase3A) A3-5...

[Page 10: Disassembly Instructions](#)

DISASSEMBLY INSTRUCTIONS 3. After one side is removed, pull in the opposite direction to 1.
REMOVAL OF ANODE CAP remove the other. Read the following NOTED items before starting
work. NOTE After turning the power off there might still be a potential Take care not to damage
the Rubber Cap.

[Page 11: Removal And Installation Of Flat Package Ic](#)

DISASSEMBLY INSTRUCTIONS When IC starts moving back and forth easily after REMOVAL AND
INSTALLATION OF desoldering completely, pickup the corner of the IC using a FLAT PACKAGE IC
tweezers and remove the IC by moving with the IC desoldering machine. (Refer to Fig. 2-3.)
REMOVAL NOTE Put Masking Tape (cotton tape) around the Flat Package...

[Page 12](#) DISASSEMBLY INSTRUCTIONS INSTALLATION When bridge-soldering between
terminals and/or the soldering amount are not enough, resolder using a Thin-tip Take care of
the polarity of new IC and then install the new Soldering Iron. (Refer to Fig. 2-8.) IC fitting on the
printed circuit pattern. Then solder each lead on the diagonal positions of IC temporarily.

[Page 13: Service Mode List](#)

SERVICE MODE LIST This unit provided with the following SERVICE MODES so you can repair,
examine and adjust easily. To enter the Service Mode, press both set key and remote control

key for more than 1 second. Set Key Remocon Key Operations Releasing of V-CHIP PASSWORD.

[Page 14: When Replacing Eeprom \(Memory\) Ic](#)

WHEN REPLACING EEPROM (MEMORY) IC If a service repair is undertaken where it has been required to change the MEMORY IC, the following steps should be taken to ensure correct data settings while making reference to TABLE 1. Table 1 Enter DATA SET mode by setting VOLUME to minimum.

[Page 15: Electrical Adjustments](#)

ELECTRICAL ADJUSTMENTS 1. ADJUSTMENT PROCEDURE 2. BASIC ADJUSTMENTS Read and perform these adjustments when repairing the 2-1: CONSTANT VOLTAGE circuits or replacing electrical parts or PCB assemblies. Place the set in AV MODE without signal. CAUTION Connect the digital voltmeter to the TP003. Adjust the VR502 until the digital voltmeter is 135 ±...

[Page 16](#) ELECTRICAL ADJUSTMENTS 2-4: COLOR CENT Receive the color bar pattern. (RF Input) Using the remote control, set the brightness, contrast, color and tint to normal position. Connect the oscilloscope to TP022. Activate the adjustment mode display of Fig. 1-1 and press the channel button (22) on the remote control to select "COL.

[Page 17](#) ELECTRICAL ADJUSTMENTS 2-10: HORIZONTAL PHASE 2-14: CONTRAST MAX Receive the monoscope pattern. Activate the adjustment mode display of Fig. 1-1 and Activate the adjustment mode display of Fig. 1-1 and press the channel button (18) on the remote control to press the channel button (03) on the remote control to select "CONT.

[Page 18](#) ELECTRICAL ADJUSTMENTS 2-18: LEVEL Connect the AC voltmeter to pin 6 of CP101. Activate the adjustment mode display of Fig. 1-1 and press the channel button (33) on the remote control to select "LEVEL". Press the VOL. UP/DOWN button on the remote control until the AC voltmeter is 75 ±...

[Page 19: Purity And Convergence](#)

ELECTRICAL ADJUSTMENTS 3. PURITY AND CONVERGENCE 3-3: STATIC CONVERGENCE ADJUSTMENTS NOTE Adjust after performing adjustments in section 3-2. NOTE Receive the crosshatch pattern from the color bar Turn the unit on and let it warm up for at least 30 generator.

[Page 20](#) ELECTRICAL ADJUSTMENTS 4. ELECTRICAL ADJUSTMENT PARTS LOCATION GUIDE (WIRING CONNECTION) CRT PCB CP806 CP805 TP024 R805 CD805 TP022 R803 J801 CP802B CP803 CP801B CD803 CD801 CD802 CP801A CP101 FB401 CP401 VR401 TP003 W003 VR502 AC IN SPEAKER CP802A CP502 L503 CD1001 CP501 CP1001...

[Page 21: Block Diagram](#)

BLOCK DIAGRAM A/V OUT J708 COMB FILTER IC CHROMA IC IC1501 LA76605M-TLM-E IC601 M61283FP R70T C OUT FB401 Y IN VIDEO LINE OUT Y OUT J801 Q603, Q614, Q605 Q802, Q806 VIDEO SW(Y) IC BLUE OUT B OUT IC1502 MM1501XNRE Q803, Q805 S-JACK G OUT...

[Page 22: Printed Circuit Boards](#)

PRINTED CIRCUIT BOARDS TV MT/CRT (INSERTED PARTS) STEREO JACK SOLDER SIDE SOLDER SIDE CD801A C427_1 C415 C426 CP403 B401 CP101 J701 CP801A J702 J704 D404 D411 R443 J703 C750 D608 C413_1 J708 D701 D407 D704 D405 R432 W861 D703 W006 D705 R762 R430...

[Page 23](#) PRINTED CIRCUIT BOARDS MAIN/CRT (CHIP MOUNTED PARTS) SOLDER SIDE Q101 R109 IC199_1 R101 W845 R112 R113 R907 C102 C104 IC302 IC902 R136 IC101 R906 R125 R128 Q902 R137 R150 R127 Q901 R131 Q103 R810 CMD016C C138 C136 C137 R814 R612 C639 R620 C1507...

[Page 24: Micon](#)

MICON SCHEMATIC DIAGRAM ACCESSORY (TV MT PCB) BT001 MNA(A)R03 OS101 TM101 RPM7138-WH5 BT002 R25-1939 MNA(A)R03 TEST POINT Vout LED SW Q101 R109 CP101 A2001WR2-7P KTC3875S_Y_RTK I2C_SCL I2C_SDA R101 I2C_OFF R106 R103 AUDIO L AUDIO R 2.7K R130 R150 CLAMP SW Q103 47K 1/4W KTC3875S_Y_RTK...

[Page 25: Chroma](#)

CHROMA SCHEMATIC DIAGRAM (TV MT PCB) FROM/TO AV R616 VIDEO_IN2 120 1/2W V_IN[YUV] AT+5V REG R617 Q607 VIDEO_IN1 KTC3203_Y U_IN[YUV] Y_IN[YUV] VIDEO_IN3 R603 VIDEO_OUT 330 1/2W FROM/TO COMB/FILTER FROM/TO MICON C_V_OUT_SW P.CON+5V PROTECT Y_V_OUT_SW P.CON+5V REG C641 VIDEO_OUT Q606 C_IN(Y/C) Y SW OUT SW_Y_OUT KTC3209_Y...

[Page 26](#) DEFLECTION SCHEMATIC DIAGRAM (TV MT PCB) FROM/TO DY V.OUTPUT IC V801 IC401 LA78041 CP401 M80LNK085X90Y1J B06B-DVS-L (LF) THERMAL PROTECTION PUMP UP L402 ELH5L7120N 25.0 12.0 25.0 R407 R439 1.2K 1K 1W C425_1 0.001 TO CRT/SVM CD803 (CP803) CD805 (CP805) CH823006 CH823006 BUFFER R414 R417...

[Page 27: Power](#)

POWER SCHEMATIC DIAGRAM (TV MT PCB) D516 RELAY DRIVE Q504 10.9 1SS133 KTC3198 R515 10K 1/4W C516 500V 0.001 RY501 TO SOUND G5PA-1-SA(WEC) R517_1 D505 W806 SOUND+B 30PRA60-FC 0.39 R501 DEGAUSS COIL ICP501 L503 P.CON+12V CP502 8R320005 1 7W 5A250V A1561WV2-2P SOUND_GND D517...

[Page 28: Sound](#)

SOUND SCHEMATIC DIAGRAM (TV MT PCB) FROM TUNER/STEREO R302 SW_AUDIO_L R301 2.7K 1/4W SW_AUDIO_R 2.7K 1/4W C309 0.039 L IN L ONT Tone Volume 2.2K SURR Balance Control Control /MUTE MODE control R IN Vref R OUT W832 R303 100 1/4W FROM CHROMA R304 L301...

[Page 29: Tuner/Stereo](#)

TUNER/STEREO SCHEMATIC DIAGRAM (TV MT PCB) TU001 115-V-KA35ARB FROM/TO CHROMA TUNER+5V NC NC TUNER_VIDEO W812 P.CON+8V[B] P.CON+5V FROM POWER R001 P.CON+B 68K 1/2W R002 68K 1/2W TO MICON FROM/TO MICON J_AUDIO_OUT_L C901 BUFFER Q901 KTA1504S_Y_RTK J_AUDIO_OUT_R C902 BUFFER Q902 KTA1504S_Y_RTK TO SOUND L901 SW_AUDIO_L...

[Page 30](#) AV SCHEMATIC DIAGRAM (TV MT PCB) YUV_IN(REAR) J704 FROM/TO CHROMA MSP-213V1-652_NI_LF V_IN[YUV] U_IN[YUV] Y_IN[YUV] VIDEO_OUT VIDEO_IN2 A/V_OUT(REAR) VIDEO_IN1 J708 MSP-213V2-432_NI_LF VIDEO_IN3 C711 R708_C707 R704_R702 C728 R721 220 1/4W MUTE Q711 R703 R711 KTC3875S_Y_RTK C710 MUTE BUFFER 2.2K Q712 R710 Q709 KANP...

[Page 31: Crt](#)

CRT SCHEMATIC DIAGRAM (CRT PCB) FROM DEFLECTION CP806 005P-2100 SCREEN FROM DEFLECTION CP801B (CP801A) B2013H02-5P W802 180V HEATER FOCUS R802 FROM CHROMA CP802B (CP802A) 2.7K 1/4W R803 RED/GREEN OUT B2013H02-7P Q804 RED/GREEN OUT CLAMP 12K 2W KTC4217 Q801 100.6 123.0 R812 KTC3199_Y R.OUT...

[Page 32: Comb/Filter](#)

COMB/FILTER SCHEMATIC DIAGRAM (TV MT PCB) L1511 15uH 0305 BUFFER Q1508 KTC3875S_Y_RTK C1535 L1505 FROM AV 15uH 0305 S_VIDEO_IN[C] S_VIDEO_IN[Y] R1512 BUFFER Q1503 C1513 KTC3875S_Y_RTK 0.1 B VIDEO SW(Y) IC C1519 FROM MICON IC1502 MM1501XNRE 0.1 B Vin1 Y/C_SW V.OUT Vin2 VIDEO SW(C) IC IC1503...

[Page 33: Av Jack](#)

AV JACK SCHEMATIC DIAGRAM (STEREO JACK PCB) FROM AV CD701 (CP701) CH242002 W805 VIDEO VIDEO AUDIO_R J753 AV1-06AD-3 AUDIO_L C751_2 R761 1/4W AUDIO_L J752 AV1-06AD-4 C754_2 R762 1K 1/4W AUDIO_R J751 AV1-06AD5-2 PCB280 CED038 NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE...

[Page 34: Waveforms](#)

WAVEFORMS MICON 0.5V 10ms/div 13 1V 20µs/div 1 1V 0.1µs/div 9 1V 50µs/div 14 2V 20µs/div 2 1V 1µs/div 10 2V 20µs/div 3 1V 50µs/div 15 2V 20µs/div DEFLECTION 4 1V 0.1ms/div 11 0.5V 20µs/div 16 2V 5ms/div CHROMA 12 1V 2µs/div 7 1V 20µs/div 17 20V 5ms/div NOTE:...

[Page 35](#) WAVEFORMS 38 50V 20µs/div 25 2V 5ms/div 18 10V 10ms/div 39 50V 20µs/div 26 5V 2ms/div 19 20V 20µs/div SOUND 27 5V 2ms/div 20 2V 20µs/div 22 2V 5ms/div 28 200mV 20µs/div 23 2V 5ms/div 21 200V 50µs/div 37 50V 20µs/div 29 200mV 20µs/div 24 2V 5ms/div
NOTE:...

[Page 36: Mechanical Exploded Views](#)

MECHANICAL EXPLODED VIEW 102B 102B 102A 102B PCB110 (CRT PCB ASS'Y) 101I PCB010 (MAIN PCB ASS'Y) 101F 101G 101H PCB280 101H 101F (STEREO JACK PCB ASS'Y) 101G 101D 101I 101H 101B 101H 101E 101C 101A...

[Page 37](#) MECHANICAL EXPLODED VIEW (PACKING DIAGRAM) 124, 125, TM101...

[Page 38: Mechanical Replacement Parts List](#)

MECHANICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No. Description
72781140 7A701A304A FRONT CABI ASS'Y 101A 72798465 701WPJC547 CABINET,FRONT 101B
72798490 711WPA0191 PLATE,FRONT 101C 72798497 712WPBA085 DOOR 101D 72798519
713WPA0288 GLASS,LED 101E 72798565 723000C520 AV,LABEL 101F 72798590 735WPA0769
STOPPER,BUTTON 101G 72798603 735WPBA985...

[Page 39: Electrical Replacement Parts List](#)

ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No. Description
RESISTORS ! R410 72795508 R3X18A151J R,METAL OXIDE 150 OHM 2W ! R419 72795993
R3X1811R2J R,METAL OXIDE 1.2 OHM 1W ! R426 72794599 R4X5T4472F R,METAL 4.7K OHM
1/4W ! R434 72797985 R5X2CF1R8J R,CEMENT...

[Page 40](#) ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No.
Description DIODES D416 72794491 D1VT001330 DIODE,SILICON 1SS133T-77 D417 72794491
D1VT001330 DIODE,SILICON 1SS133T-77 D419 72794491 D1VT001330 DIODE,SILICON
1SS133T-77 ! D501 72794473 D2WTRM11C0 DIODE,SILICON RM11C-EIC ! D502 72794473
D2WTRM11C0 DIODE,SILICON RM11C-EIC ! D503 72794473 D2WTRM11C0 DIODE,SILICON...

[Page 41](#) ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No.
Description TRANSISTORS Q601 72794570 TCAT03209Y TRANSISTOR,SILICON KTC3209_Y-AT
Q602 72794570 TCAT03209Y TRANSISTOR,SILICON KTC3209_Y-AT Q603 72794571
TCAA3875SY TRANSISTOR,SILICON KTC3875S_Y_RTK Q604 72794570 TCAT03209Y
TRANSISTOR,SILICON KTC3209_Y-AT Q605 72794571 TCAA3875SY TRANSISTOR,SILICON
KTC3875S_Y_RTK Q606 72794570 TCAT03209Y TRANSISTOR,SILICON KTC3209_Y-AT Q607...

[Page 42](#) ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No.
Description MISCELLANEOUS CD801 72795619 WCL6844038 FLAT CABLE AWM2468 AWG26 5C
GRAY 440MM CD802 72798425 WEL6858038 FLAT CABLE AWM2468 AWG26 7C GRAY 580MM
CD803 72783318 06CH823006 CORD,CONNECTOR CH823006 CD805 72783318 06CH823006
CORD,CONNECTOR CH823006 CP101...

[Page 43](#) TOSHIBA CORPORATION 1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105-8001,
JAPAN...