

TOSHIBA

Toshiba 13A26 Service Manual

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SERVICE MANUAL

COLOR TELEVISION

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

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

FILE NO. 050-200603GR

(MFR'S VERSION B)

13A26 TOSHIBA 13A26C

DOCUMENT CREATED IN JAPAN, January, 2006 GREEN

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Related Manuals for Toshiba 13A26

[TV Toshiba 13A26 Service Manual](#)

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[CRT TV Toshiba 13A26C Owner's Manual](#)

Toshiba color television owner's manual 13a26c, 19a26c (29 pages)

[TV Toshiba 13A26 Owner's Manual](#)

Toshiba tv 13a26, 19a26 owner's manual (29 pages)

[TV Toshiba 13A26 Owner's Manual](#)

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[TV Toshiba 13A25C Service Manual](#)

(43 pages)

[TV Toshiba 13A25 Service Manual](#)

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[TV Toshiba 13A21 Owner's Manual](#)

13a21 user's guide (4 pages)

[TV Toshiba 13A21 Service Manual](#)

(64 pages)

[TV Toshiba 13A23W Service Manual](#)

(43 pages)

[TV Toshiba 13A24 Service Manual](#)

(32 pages)

[TV Toshiba 13A24 Owner's Manual](#)

(47 pages)

[TV Toshiba 13A21C Service Manual](#)

Toshiba service manual tv 13a21c (31 pages)

[TV Toshiba 13A20 Service Manual](#)

(38 pages)

[TV Toshiba 19A24 Owner's Manual](#)

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[TV Toshiba 19DV500B Owner's Manual](#)

(45 pages)

[TV Toshiba 15SZ2E Service Manual](#)

Toshiba s3e chassis color television service manual (28 pages)

Summary of Contents for Toshiba 13A26

[Page 1: Service Manual](#)

FILE NO. 050-200603GR (MFR'S VERSION B) SERVICE MANUAL COLOR TELEVISION 13A26 13A26C The above models are classified as a green products (*1), as indicated by the underlined serial number. This Service Manual describes replacement parts for the green product. When repairing these green product(s), 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](#)

When you exchange IC and Transistor with a heat sink, apply silicon grease on the contact section of the heat sink. Before applying new silicon grease, remove all the old silicon grease. (Old grease may cause damages to the IC and Transistor.) A1-2 13A26/13A26C...

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G-1, G-2 TV POWER G-3, G-4 DEFLECTION/CRT G-5, G-6
SOUND/AV G-7, G-8 WAVEFORMS H-1, H-2 MECHANICAL
EXPLODED VIEW I-1, I-2 MECHANICAL REPLACEMENT PARTS LIST J1-1,
J1-2 ELECTRICAL REPLACEMENT PARTS LIST J2-1~J2-6 A2-1 13A26/13A26C...

[Page 5: General Specifications](#)

54 W at AC 120 V 60 Hz Stand by (at AC) W at AC 120 V 60 Hz Per Year kWh/Year Protector
Power Fuse Regulation Safety Radiation X-Radiation DHHS Temperature Operation +5oC ~
+40oC Storage -20oC ~ +60oC Operating Humidity Less than 80% RH A3-1 13A26...

[Page 6](#) Game Timer Sleep Timer Sound Mute V-chip Rating OSD Language English French
Spanish Clock and Sleep Timer Max Time 120 Min Timer Step On Timer Program(On Timer)
Wake Up Timer Timer Back-up (at Power Off Mode) more than A3-2 13A26...

[Page 7](#) Volume Up Volume Down TV/Caption/Text CH1/CH2 TV/Video(TV/AV) CH RTN/CH
ENT(Quick View) Sleep RE Call(Call) Reset Menu Enter Mute Exit MTS(Audio Select) Set + Set -
Multi Brand Keys CH Up(VCR) CH Down(VCR) Pause/Still TV/VCR(VCR) Code Play Stop Cable
A3-3 13A26...

[Page 8](#) Dew/AHC Caution Sheet AC Plug Adapter Quick Set-up Sheet Battery UM size x pcs
UM-4 x 2 pcs OEM Brand AC Cord AV Cord (2Pin-1Pin) Registration Card (NDL Card) ESP Card
300 ohm to 75 ohm Antenna Adapter A3-4 13A26...

[Page 9](#) Edges / 6 Surfaces Height (cm) 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(Ph A3-5 13A26...

[Page 10](#) GENERAL SPECIFICATIONS CRT Size / Visual Size 13 inch / 335.4mmV System CRT
Type Normal Deflection degree Magnetic Field BV/BH +0.45G/0.18G Color System NTSC
Speaker 1Speaker Position Bottom Size 3 Inch Impedance Sound Output 1.0 W 10%(Typical) ---
W NTSC3.58+4.43 /PAL60Hz Tuning Broadcasting System System M...

[Page 11](#) GENERAL SPECIFICATIONS On Screen Menu Display Menu Type Character Picture
Contrast Brightness Color Tint Sharpness Audio Bass Treble Balance BBE On/Off Stable Sound
On/Off CH Set Up TV/CABLE(CATV) Auto CH Memory Add/ Delete Language V-chip Lock On
Timer CH Label Favorite CH Color Stream DVD/DTV Control Level...

[Page 12](#) GENERAL SPECIFICATIONS G-10 Remote Unit RC-EH Control Glow in Dark Remocon
Format Toshiba Custom Code 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 Volume Up Volume Down...

[Page 13](#) GENERAL SPECIFICATIONS G-11 Features Auto Degauss Auto Shut Off Canal+ CATV
Anti-theft Rental Memory(Last CH) Memory(Last Volume) V-Chip Type Auto Search CH Allocation
Channel Lock Just Clock Function Game Position CH Label VM Circuit Full OSD Premiere Comb
Filter Lines Auto CH Memory Hotel Lock Closed Caption...

[Page 14](#) Edges / 6 Surfaces Height (cm) Container Stuffing Sets/40' container G-17 Cabinet
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procurement of TOSHIBA Pb-free Phase3(Ph A3-10 13A26C...

[Page 15: Disassembly Instructions](#)

Flip up the sides of the Rubber Cap in the direction of the arrow and remove one side of the support. (Refer to Fig. 1-2.) Rubber Cap Support Fig. 1-5 Support Confirm that the Support is securely connected. Fig. 1-2 Put on the Rubber Cap without moving any parts. B1-1 13A26/13A26C...

[Page 16: Removal And Installation Of Flat Package Ic](#)

NOTE Do not move the Braided Shield Wire in the vertical direction towards the IC pattern. Blower type IC desoldering machine Braided Shield Wire Soldering Iron IC pattern Fig. 2-4 Fig. 2-2 B2-1 13A26/13A26C...

[Page 17](#) Fig. 2-6 Absorb the solder left on the lead using the Braided Shield Wire. (Refer to Fig. 2-7.) NOTE Do not absorb the solder to excess. Soldering Iron Braided Shield Wire Fig. 2-7 B2-2 13A26/13A26C...

[Page 18: Service Mode List](#)

While holding down VOLUME button on front cabinet, press key (1) on remote control for more than 2 seconds. After the finishing of the initializing of shipping, the unit will turn off automatically. The unit will now have the correct DATA for the new MEMORY IC. 13A26/13A26C...

[Page 19: Electrical Adjustments](#)

V.SHIFT COLOR MIN to the AV mode. Then perform the above adjustments R.DRIVE TINT 2~7. B.DRIVE SHARPNESS R.BIAS FM LEVEL G.BIAS LEVEL B.BIAS SEPARATION 1 BRIGHT CENT SEPARATION 2 BRIGHT MAX TEST MONO BRIGHT MIN TEST STEREO Fig. 1-2 13A26/13A26C...

[Page 20](#) Press the VOL.UP/DOWN button on the remote control control until the horizontal line becomes fit to the until the contrast step No. becomes "52". notch of the shadow mask. (Refer to Fig. 2-3) Receive a broadcast and check if the picture is normal. 13A26/13A26C...

[Page 21](#) Please check if the fixed values of the each adjustment items are set correctly referring below. (RF/AV) STEP NO. NO. FUNCTION STEP NO. FUNCTION COLOR MIN H VCO SHARPNESS BRIGHT MAX FM LEVEL BRIGHT MIN LEVEL CONT CENT SEPARATION 1 CONT MIN SEPARATION 2 COLOR MAX 13A26/13A26C...

[Page 22: Purity And Convergence](#)

Confirm red and blue colors. Adjust the slant of the deflection yoke while watching the WEDGE screen, then tighten the fixing screw. DEFLECTION YOKE WEDGE POSITION DEFLECTION YOKE SCREW Fig. 3-2-b MAGNET SCREW PURITY MAGNETS 6 POLE MAGNETS 4 POLE MAGNETS Fig. 3-1 13A26/13A26C...

[Page 23](#) ELECTRICAL ADJUSTMENTS 4. ELECTRICAL ADJUSTMENT PARTS LOCATION GUIDE (WIRING CONNECTION) CRT PCB CP806 TP022 CP803A FB401 TU001 TP023 CP802B CP801 DEGAUSS COIL CP502 CD501 S501B S501A CD101A SPEAKER CD101B MAIN PCB...

[Page 24: Block Diagram](#)

X601 3.579545MHz V801 Heater V-OUT IC IC401 STV9302B IC501 Q506 T501 PS2561AL1-1-V(W) Q507 RELAY DRIVE PUMP UP FEED BACK FEED BACK SDA SCL D501~D504 MEMORY IC RECTIFIER Q502 IC199 BR24L02F-WE2 BUFFER RY501 RELAY Q501 SWITCHING FB401 F501 AC IN 13A26/13A26C...

[Page 25: Printed Circuit Boards Main/Crt](#)

C808_1 W037 R621 R813_1 D604 C810_1 R607 W073 R809 R814_1 R806 W036 R614 C1008 W035 R613 CP802B W034 R615 W813 C633 Q105 W812 CCF073A W030 R1007 W808 C123_1 OS101 W029 J1001 C118 J703 J702 SW101 SW102 SW103 SW104 SW105 13A26/13A26C...

[Page 26](#) PRINTED CIRCUIT BOARDS MAIN (CHIP MOUNTED PARTS) SOLDER SIDE R702 R128 R101 IC199 Q607 CCF073A R609 CMF081A R627 R108 Q506 R532 R105_1 R129 Q505 R420 13A26/13A26C...

[Page 27](#) OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE WITH THE DIGITAL TESTER

WHEN THE COLOR BROADCAST DANGEREUSES AN POINT DE VUE SECURITE DESCRIBED IN PARTS LIST ONLY N'UTILISER QUE CELLS DECRITES WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL. DANS LA NOMENCLATURE DES PIECES 13A26/13A26C...

[Page 28](#) DANGEREUSES AN POINT DE VUE SECURITE THE ALUMI ELECTROLYTIC CAPACITOR MARKED NP WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL. DESCRIBED IN PARTS LIST ONLY N'UTILISER QUE CELLS DECRITES IS NON POLAR ONE. DANS LA NOMENCLATURE DES PIECES 13A26/13A26C...

[Page 29](#) WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL. 560 1/2W R445 DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES 180K 1/4W DANS LA NOMENCLATURE DES PIECES NOTE: THE RESISTOR MARKED F IS FUSE RESISTOR. THE ALUMI ELECTROLYTIC CAPACITOR MARKED NP IS NON POLAR ONE. 13A26/13A26C...

[Page 30](#) CRITICAL FOR SAFETY,USE ONES OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE DANGEREUSES AN POINT DE VUE SECURITE WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL. DESCRIBED IN PARTS LIST ONLY N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES 13A26/13A26C...

[Page 31: Micon/Chroma/Tuner](#)

10 2V 20 s/div 3 200mV 20 s/div 1V 20 s/div 200V 20 s/div DEFLECTION/CRT 8 0.5V 5ms/div 10V 5ms/div 0.5V 5ms/div NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram. 13A26/13A26C...

[Page 32: Sound/Av](#)

10V 5ms/div 50V 20 s/div 1V 1ms/div 200mV 500 s/div 15 50V 20 s/div 16 50V 20 s/div 20 500mV 20 s/div NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram. 13A26/13A26C...

[Page 33: Mechanical Exploded View](#)

MECHANICAL EXPLODED VIEW PCB110 (CRT PCB ASS'Y) 101D PCB070 (MAIN PCB ASS'Y) 101B 101C 101A 13A26/13A26C...

[Page 34](#) MECHANICAL EXPLODED VIEW (PACKING DIAGRAM) 116, 117, 118, TM101 13A26/13A26C...

[Page 35: Mechanical Replacement Parts List](#)

SCREW TAP TITE(B0) TRUSS 4*16 CH 72798786 810763080U SCREW TAP TITE(S) BRAZIER 3*8 CH 72798790 811063080U SCREW TAP TITE(P) BRAZIER 3*8 CH 72781255 810913080U SCREW TAP TITE(B) WH7 3*8 CH 72798791 8110630A0U SCREW TAP TITE(P) BRAZIER 3*10 CH J1-1 13A26...

[Page 36](#) MECHANICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No. Description 72781144 7A701A312A FRONT CABI ASS'Y 101A 72799312 701WPJC918 CABINET FRONT 101B 72799477 713WPAA203 GLASS LED 101C 72799476 713WPAA202 GUIDE REMOCON 101D 72799757 735WPBB315 BUTTON FRAME 72783507 A3X002V740 CABINET,BACK ASSY 72794734 899HV3T000 HOLDER ANODE WIRE...

[Page 37: Electrical Replacement Parts List](#)

72794491 D1VT001330 DIODE,SILICON 1SS133T-77 D528 72794489 D97U05R61B DIODE,ZENER MTZJ5.6B T-77 D602 72794481 D97U09R11B DIODE,ZENER MTZJ9.1B T-77 D603 72794491 D1VT001330 DIODE,SILICON 1SS133T-77 D604 72794486 D97U08R21B DIODE,ZENER MTZJ8.2B T-77 D606 72794488 D2WT011E10 DIODE,SILICON 11E1-EIC D611 72794487 D97U01201B DIODE,ZENER MTZJ12B T-77 J2-1 13A26...

[Page 38](#) WG26 4C BLACK 260MM S102 72798400 WCL6834038 FLAT CABLE AWM2468 A WG26 5C GRAY 340MM ! SP1001 72783449 070Z132025 SPEAKER TC077S001-0217C ! TH501 72794693 D8EE0B1400 DEGAUSS ELEMENT B59203-S1060-B14 TM101 72795473 076N0EH050 TRANSMITTER RC-EH050(CT-859) ! TU001 72783421 0163300022 RF UNIT 115-V-KA35ARH J2-2 13A26...

[Page 39](#) A34AGT13X98(DL) X601 72783450 100BT3R537 CRYSTAL HC-49U RESISTOR

RC....CARBON RESISTOR CAPACITORS CC....CERAMIC CAPACITOR CE....ALUMI ELECTROLYTIC CAPACITOR CP....POLYESTER CAPACITOR CPP....POLYPROPYLENE CAPACITOR CPL....PLASTIC CAPACITOR CMP.....METAL POLYESTER CAPACITOR CMPL....METAL PLASTIC CAPACITOR CMPP....METAL POLYPROPYLENE CAPACITOR J2-3 13A26...

[Page 40](#) ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No.
Description RESISTORS ! R401 72794595 R4X5T6273F R,METAL 27K OHM 1/6W ! R406 72781668 R3K181010J R,METAL OHM 1W ! R408 72796016 R4X5T6103F R,METAL 10K OHM 1/6W ! R409 72781720 R4K1T4273F R,METAL 27K OHM 1/4W ! R429 72781702...

[Page 41](#) ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No.
Description IC101 72795532 I56F07091C OEC7091C IC199 72783443 A3X002V075L INIT DATA BR24L02F-WE2 ! IC401 72783444 I0WTD9302B STV9302B ! IC501 72794512 000220002W PHOTO COUPLER PS2561AL1-1-V(W) ! IC1001 72795537 I01DP75110 AN7511 TRANSISTORS Q105 72795555 TPATB03003 COMPOUND TRANSISTOR...

[Page 42](#) ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No.
Description MISCELLANEOUS ! V801 72796972 098Q1404D1 CRT W/DY A34AGT13X98(DL) X601 72783450 100BT3R537 CRYSTAL HC-49U RESISTOR RC....CARBON RESISTOR CAPACITORS CC....CERAMIC CAPACITOR CE....ALUMI ELECTROLYTIC CAPACITOR CP....POLYESTER CAPACITOR CPP....POLYPROPYLENE CAPACITOR CPL....

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

This manual is also suitable for:

13a26c