



Toshiba 13A26 Service Manual

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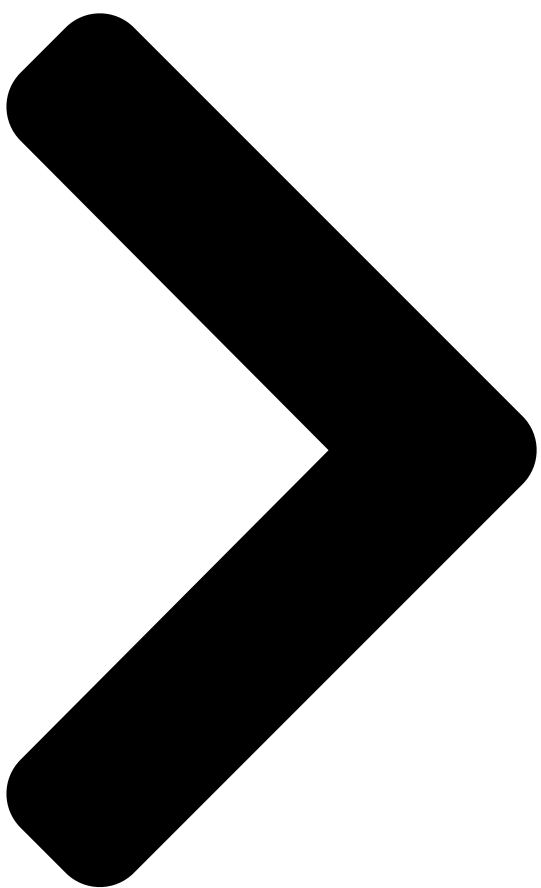
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SERVICE MANUAL

COLOR TELEVISION

TOSHIBA

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. 050-200704GR

(MFR'S VERSION A)

13A26

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(45 pages)

Summary of Contents for Toshiba 13A26

[Page 1: Service Manual](#)

(MFR'S VERSION A) SERVICE MANUAL COLOR TELEVISION 13A26 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.

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TABLE OF CONTENTS GREEN PRODUCT PROCUREMENTA1-1 LEAD-FREE SOLDERA1-1 SERVICING NOTICES ON CHECKINGA1-2 HOW TO ORDER PARTSA1-2 IMPORTANTA1-2 TABLE OF CONTENTS A2-1 GENERAL SPECIFICATIONS A3-1~A3-5 DISASSEMBLY INSTRUCTIONS 1. REMOVAL OF ANODE CAPB1-1 2.

[Page 5: General Specifications](#)

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 6](#) 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 7](#) 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 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 USA,ORION 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...

[Page 9](#) Natural Dropping At 1 Corner / 3 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(Phase3A) A3-5...

[Page 10: Disassembly Instructions](#)

DISASSEMBLY INSTRUCTIONS 1. REMOVAL OF ANODE CAP 3. After one side is removed, pull in the opposite direction to 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 the Masking Tape (cotton tape) around the Flat...

[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 is 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 2 seconds. Set Key Remocon Key Operations Releasing of V-CHIP PASSWORD.

[Page 14: Electrical Adjustments](#)

ELECTRICAL ADJUSTMENTS BEFORE MAKING ELECTRICAL 2. BASIC ADJUSTMENTS ADJUSTMENTS 2-1: CUT OFF Read and perform these adjustments when repairing the Adjust the unit to the following settings. circuits or replacing electrical parts or PCB assemblies. R.DRIVE=10, B.DRIVE=10, R.BIAS=64, G.BIAS=64, B.BIAS=64, BRI.CENT=120, CONT.MAX=40. CAUTION Place the set with Aging Test for more than 15 minutes.

[Page 15](#) ELECTRICAL ADJUSTMENTS 2-8: OSD HORIZONTAL Activate the adjustment mode display of Fig. 1-1. Press the VOL. UP/DOWN button on the remote control until the difference of A and B becomes minimum. (Refer to Fig. 2-3) "A" Fig. 2-1 00 OSD Fig.

[Page 16: Purity And Convergence](#)

ELECTRICAL ADJUSTMENTS 3-3: STATIC CONVERGENCE 3. PURITY AND 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 17](#) ELECTRICAL ADJUSTMENTS 4. ELECTRICAL ADJUSTMENT PARTS LOCATION GUIDE (WIRING CONNECTION) CRT PCB CP806 TP022 FB401 TU001 CP803A TP023 CP802B CP801 DEGAUSS COIL CP502 S501B CD501 S501A CD101A SPEAKER CD101B TV MT PCB...

[Page 18: Block Diagram](#)

BLOCK DIAGRAM J702 J703 CH. DOWN EAR PHONE JACK J1001 MICON/CHROMA IC VOL. DOWN IC1001 AN7511 IC101 OEC7091C CH. UP SPEAKER SOUND AMP SP1001 VOL. UP RGB Proc.2 Q801 OSD SW CONTRAST BRIGHTNESS POWER RGB OUTPUT Stage RED OUT Chroma DRIVE Proc.

[Page 19: Printed Circuit Boards Tv Mt/Crt](#)

PRINTED CIRCUIT BOARDS TV MT/CRT (INSERTED PARTS) SOLDER SIDE CRITIQUE VOIR AUVERSO. CP601 INFORMATIONPOURSERVICE DESPIECE D408 C406 ATTENTION R403 C435 W004 CP803A D410 C403 D405 W009 W008 C448_1 C434 C401 C440 FB401 R421 R408 L401 W001 W015 Q402 R542 D518 R539 R506 C446...

[Page 20](#) PRINTED CIRCUIT BOARDS TV MT (CHIP MOUNTED PARTS) SOLDER SIDE R702 R128 R101 IC199 Q607 R609 R627 R108 Q506 R532 R105_1 R129 Q505 R420...

[Page 21](#) MICON/CHROMA/TUNER SCHEMATIC DIAGRAM (TV MT PCB) H.CTL Q607 R621 KTC3875S-GR-RTK/P 220 1/4W R618 C118 FROM/TO DEFLECTION/CRT 6.3V R608 CLAMP 680 1/4W P.CON+B S802Y R110 C101 V_OUT R109 10K 1/4W 0.01 B 10K 1/4W C630 V_FEEDBACK AT+5V R124 ABCL H_OUT X-RAY C629 R.OUT R130...

[Page 22](#) TV POWER SCHEMATIC DIAGRAM (TV MT PCB) TO SOUND/AV 10.3 R532 RELAY DRIVE Q506 KTC3875S-GR-RTK/P R517_1 D505 SOUND+B 21DQ09N C518 500V 470P D517 1SS133 SOUND_GND FROM/TO DEFLECTION/CRT RY501 D510 ALKS321 DEGAUSS COIL PROTECT DRIVE RU2AM-EIC UNREG+12V L503 Q503 CP502 W834 2SA1624 DYD1-3020-80 P.CON+B...

[Page 23](#) DEFLECTION/CRT SCHEMATIC DIAGRAM CP802A CP802B (TV MT PCB) B2013H02-5P B2013H02-5P FROM MICON/CHROMA/TUNER CLAMP CLAMP CLAMP CLAMP CLAMP G.OUT G.OUT G.OUT G.OUT R.OUT R.OUT R.OUT R.OUT R.OUT B.OUT B.OUT B.OUT B.OUT B.OUT V-OUT IC IC401 STV9302B CP803A B2013H02-4P CP803B B2013H02-4P HEATER HEATER HEATER...

[Page 24](#) SOUND/AV SCHEMATIC DIAGRAM (TV MT PCB) ACCESSORY UM-4 BT001 MNAAA(R03) UM-4 BT002 TM101 MNAAA(R03) RC-EH050(CT-859) RCA JACK WHITE TO MICON/CHROMA/TUNER J703 AV1-09AD-4 R703 W811 AUDIO 2 AUDIO_IN R704_1 VIDEO 2 VIDEO_IN 10 1/4W RCA JACK YELLOW J702 EAR PHONE JACK AV1-09AD-3 J1001 MSJ-035-12A_PC R1007...

[Page 25: Micon/Chroma/Tuner](#)

WAVEFORMS MICON/CHROMA/TUNER 1 0.5V 2ms/div 6 1V 20μs/div 200V 20μs/div 20V 20μs/div 1V 20μs/div 10V 5ms/div DEFLECTION/CRT 10V 5ms/div 3 200mV 20μs/div 8 0.5V 5ms/div 0.5V

5ms/div 9 20V 20μs/div 50V 20μs/div 10 2V 20μs/div 5 1V 20μs/div 15 50V 20μs/div NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

[Page 26: Sound/Av](#)

WAVEFORMS 16 50V 20μs/div SOUND/AV 0.5V 1ms/div 1V 1ms/div 200mV 500μs/div 20 500mV 20μs/div NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

[Page 27: Mechanical Exploded Views](#)

MECHANICAL EXPLODED VIEW PCB110 (CRT PCB ASS'Y) 101D PCB070 (TV MT PCB ASS'Y) 101B 101C 101A...

[Page 28](#) MECHANICAL EXPLODED VIEW (PACKING DIAGRAM) 116, 117, 118, TM101...

[Page 29: Mechanical Replacement Parts List](#)

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 75007550 702WPAA852 CABINET BACK 72794734
899HV3T000 HOLDER ANODE WIRE...

[Page 30: Electrical Replacement Parts List](#)

ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No. Description
RESISTORS ! R401 72794595 R4X5T6273F R,METAL 27K OHM 1/6W ! R408 72796016
R4X5T6103F R,METAL 10K OHM 1/6W ! R409 72781720 R4K1T4273F R,METAL 27K OHM 1/4W !
R429 72781702 R3K58B4R7J R,METAL OXIDE 4.7 OHM 3W ! R447...

[Page 31](#) ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No.
Description TRANSISTORS ! Q401 72795478 TC1G058850 TRANSISTOR SILICON 2SC5885 !
Q402 72795480 TC5T01627Y TRANSISTOR SILICON 2SC1627_Y(TPE2) ! Q501 72795539
T25F035630 2SK3563(ORION_Q) ! Q502 72794577 TCATC31980 TRANSISTOR,SILICON
KTC3198-AT(Y,GR) ! Q503 72794569 TA3T016240 TRANSISTOR,SILICON 2SA1624-AA...

[Page 32](#) ELECTRICAL REPLACEMENT PARTS LIST 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...

[Page 33](#) TOSHIBA CORPORATION 1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105-8001,
JAPAN...