



# **TOSHIBA**

Toshiba 26HF66 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  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60  
61  
62  
63  
64  
65  
66  
67

|  |  |
|--|--|
|  |  |
|--|--|

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Bookmarks

|  |
|--|
|  |
|--|

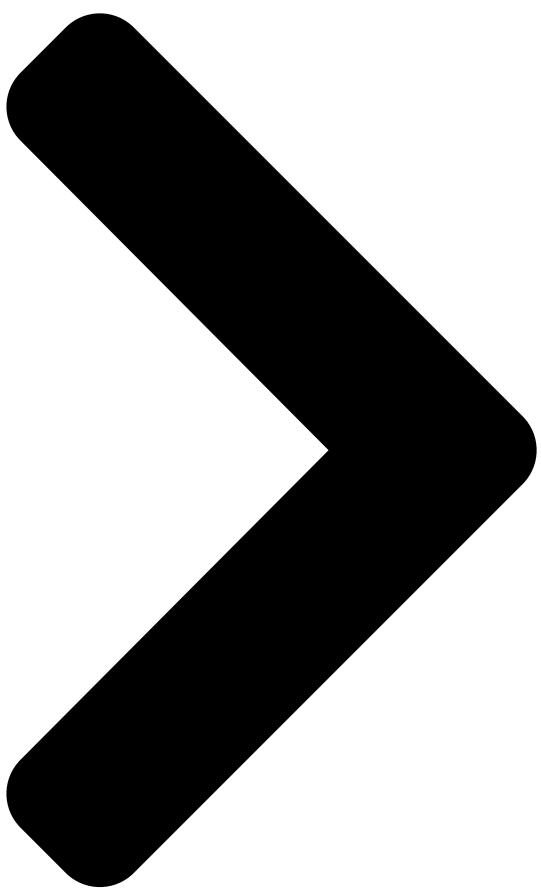
## Quick Links

[1 General Specifications](#)

[2 Service Mode List](#)

[Download this manual](#)

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



# 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. 050-200614GR

(MFR'S VERSION A)

REVISION 1

# 26HF66 **TOSHIBA**

DOCUMENT CREATED IN JAPAN, Feb., 2008 GREEN

[Table of Contents](#)

[Next Page](#)

1  
2  
3  
4  
5

## Related Manuals for Toshiba 26HF66

### [CRT TV Toshiba 26HF66 Owner's Manual](#)

Integrated high definition color television (88 pages)

### [Flat Panel TV Toshiba Flat CTV Specifications](#)

26" (measured diagonally) 16:9 sd integrated supertube fst pure flat ctv (2 pages)

### [TV Toshiba 26HF15 Service Manual](#)

(69 pages)

### [TV Toshiba 26HF84 Service Manual](#)

(60 pages)

### [TV Toshiba FSTPURE 26HF84 Owner's Manual](#)

(46 pages)

### [TV Toshiba 26HF84A Service Manual](#)

(69 pages)

### [TV Toshiba 32HL83 Service Manual](#)

Lcd color television (39 pages)

### [TV Toshiba COLORSTRAM 26HL84 Owner's Manual](#)

Lcd color television (66 pages)

### [TV Toshiba FSTPURE 26HF85 Owner's Manual](#)

(44 pages)

### [TV Toshiba 26HF86C Owner's Manual](#)

Toshiba color television owner's manual 26hf86c, 30hf86c (88 pages)

### [TV Toshiba 20HF5335D Addendum To Instruction Manual](#)

Hospitality television (70 pages)

### [TV Toshiba 26HF14SVM Service Manual](#)

(60 pages)

### [TV Toshiba 32AV83\\*B Series User Manual](#)

Digital series (64 pages)

### [TV Toshiba 32AV83\\*G Manual](#)

Digital series (59 pages)

### [TV TOSHIBA REGZA 26LV47 Owner's Manual](#)

Integrated high definition lcd tv/dvd combination (82 pages)

### [TV Toshiba 26/32WL36 Owner's Manual](#)

(156 pages)

## Summary of Contents for Toshiba 26HF66

**Page 1** REVISION 1 SERVICE MANUAL COLOR TELEVISION 26HF66 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 PROCUREMENT .....A1-1 LEAD-FREE SOLDER ..... A1-1 SERVICING NOTICES ON CHECKING .....A1-2 HOW TO ORDER PARTS .....A1-2 IMPORTANT .....A1-2 TABLE OF CONTENTS .....A2-1 GENERAL SPECIFICATIONS .....A3-1~A3-5 DISASSEMBLY INSTRUCTIONS 1. REMOVAL OF ANODE CAP .....B1-1 2.

### [Page 5: General Specifications](#)

GENERAL SPECIFICATIONS CRT Size / Visual Size 26 inch / 656.7mmV System CRT Type Flat (16:9) Magnetic Field BV/BH +0.45G/0.18G Color System NTSC Display Capability 1080i/540p Speaker 2 Speaker Position Front Size 1.8 x 3.9 Inch Impedance Sound Output 5.0W+5.0W 10%(Typical) NTSC3.58+4.43 /PAL60Hz Tuning...

[Page 6](#) GENERAL SPECIFICATIONS Remote Unit RC-KK Control Glow in Dark Remocon Remocon Format TOSHIBA Format TOSHIBA Custom Code 40-BF h Power Source Voltage(D.C) UM size x pcs UM-4 x 2 pcs Total Keys Keys Power Input Display Mute 100 / +10...

[Page 7](#) GENERAL SPECIFICATIONS G-10 Features Picture Brightness, Contrast, Color, Tint, Sharpness Mode (Picture preference) Color Temperature Audio Tone Control (Bass, Treble, Balance) Stable Sound Yes(Digital) SRS WOW(SRS 3D/Focus/Tru Bass) Variable Audio Out Tuning TV/CABLE CH Program Add/ Delete Label CH Label Video Label Favorite CH Lock...

[Page 8](#) GENERAL SPECIFICATIONS G-11 Accessories Owner's Manual Language English / Spanish W/ Warranty Remote Control Unit Rod Antenna Poles Terminal Loop Antenna Terminal U/V Mixer DC Car Cord (Center+) Guarantee Card Warning Sheet Circuit Diagram Antenna Change Plug Service Station List Important Safety Instruction Dew/AHC Caution Sheet AC Plug Adapter...

[Page 9](#) 60 (ORION SPEC:31) Container Stuffing Sets/40' container G-16 Material Cabinet Cabinet Front PS 94V0 DECABROM Cabinet Rear PS 94V0 NON-DECABROM Non-Halogen Demand Eyelet Demand G-17 Environment Environmental standard requirement (by buyer) Green procurement of TOSHIBA Pb-free Phase3(Phase3A) Measures for Whisker 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 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 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](#) 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...

[Page 15](#) WHEN REPLACING EEPROM (MEMORY) IC CONFIRMATION OF INITIAL DATA Enter DATA SET mode by setting VOLUME to minimum. Press both VOL. DOWN button on the set and Channel button (6) on the remote control for more than 2 seconds. ADDRESS and DATA should appear as FIG 1. ADDRESS is now selected and should "blink".

### [Page 16: Re-Write For Digital Soft Firmware](#)

RE-WRITE FOR DIGITAL SOFT FIRMWARE JG176 USA HD DTV ROM DISC Ref. No. Remarks Part No. Parts Name USA HD DTV ROM JG176 APJG176106 Up-Date of the Firmware DISC NOTE: The operating manual for Re-writing is included in USA HD DTV ROM DISC (JG176). Prepare the following tools for Up-Date of the Firmware.

### [Page 17: Electrical Adjustments](#)

ELECTRICAL ADJUSTMENTS 1. ADJUSTMENT PROCEDURE FUNCTION FUNCTION OSD H CORNER R-Y PHASE Read and perform these adjustments when repairing the CUT OFF C.PARA G-Y GAIN circuits or replacing electrical parts or PCB assemblies. H.POSI C.SAW G-Y PHASE V.POSI V.SYMM BRI.CENT CAUTION H.

[Page 18](#) ELECTRICAL ADJUSTMENTS 2-4: OSD POSITION 2-6: VERTICAL CENT/ VERTICAL SIZE Receive the monoscope pattern from the Pattern Receive the monoscope pattern. Press the MENU button. And, then press the LEFT/ Generator. Using the remote control, set the brightness and RIGHT button on the remote control until the PICTURE contrast to normal position.

[Page 19](#) ELECTRICAL ADJUSTMENTS 2-8: SUB CONTRAST 2-11: COR TOP/BTM Receive the crosshatch signal from the Pattern Generator. Set the screen mode to FULL. Set the screen mode to FULL. Activate the adjustment mode display of Fig. 1-1 and press the channel button (52) on the remote control to Using the remote control, set the brightness and contrast to normal position.

[Page 20](#) ELECTRICAL ADJUSTMENTS 2-13: Confirmation of Fixed Value (Step No.) Please check if the fixed values of the each adjustment items are set correctly referring below. FUNCTION V.POSI 110% V-EHT H-EHT V-BLK P V-BLK S V.LIMIT V.CORR White 100% V.S.CORR Fig. 2-5 S.CORR CORNER 2-13: TILT...

[Page 21](#) 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 22](#) ELECTRICAL ADJUSTMENTS 4. ELECTRICAL ADJUSTMENT PARTS LOCATION GUIDE (WIRING CONNECTION) VM COIL PCB CRT PCB CP853 TP806 S853 S854 CP804 R841 TP805 R834 CD852 CP852 TV MT PCB CP803 CP802B CP808B CP510 FB401 CP851B CD803 CD808 CP1002 AV PCB SPEAKER J707 J706 CP851A J705...

### [Page 23: Micon/Stereo/Sound Amp](#)

TV BLOCK DIAGRAM RY501 DEGAUSS RELAY Q514 POWER FAIL Q503 TRANSFORMER CD507 DTV\_POWER\_ON-H T501 DEGAUSS COIL RELAY DRIVE TUNER/DIGITAL/ Q513 AT+5V\_A D506, D507, POWER2/HDMI AT+30V D510, D511 AT+4V CD502 AT+5V F501 AT+3.3V MICON/STEREO/ SOUND AMP AT+5V RY502 FEED BACK REGULATOR POWER CTL.

[Page 24](#) MICON/STEREO/SOUND AMP BLOCK DIAGRAM MICON IC101 OEC7136A AFT-1 28 AFT\_1 TUNER/DIGITAL/ POWER2/HDMI AFT-2 31 AFT\_2 SYSTEM RESET IC102 PST3229NR BLANK1 21 OSD\_BLK1 RESET BLANK2 22 OSD\_BLK2 DEGAUSS\_H 85 DEGAUSS\_H D101 Xout TV POWER 81 TV\_POWER\_H X103 EEP ROM IC 128K 16MHz OSD\_R 32 OSD\_D...

[Page 25](#) AV SW/JACK BLOCK DIAGRAM Y\_IN CS\_IN2 U\_IN J707 TUNER/ V\_IN DIGITAL/ Y\_OUT YUV IC POWER2/ HDMI C\_OUT IC702 NJM2584AM (TE1) TV\_V\_OUT IN3B SPDIF\_OUT IN1B IN2B CS\_IN1 A/V OUT IN3A J706 J705 IN1A IN2A AV SW IC FRONT JACK IC701 AN15853B-E1 Q702

J2204 BUFFER...

### [Page 26: Av Sw/Jack](#)

TUNER/DIGITAL/POWER2/HDMI BLOCK DIAGRAM EEP\_ROM IC IC3601 BR24L02F-WE2 HDMI CONNECTOR CP3601 UNREG 5V DC/DC CTL IC3401 POWER AL1042 REG 3.3V UNREG 5V AT+5V IC3402 BA00BCWFP-E2 AT+4V 256Mbit DDR SDRAM 256Mbit DDR SDRAM IC2403 CLK- IC2402 HY5DU561622ETP-D43 REG 1.8V HY5DU561622ETP-D43 CLK+ UNREG 4V HDMI PORT PROTECTION IC IC3403 IC3602...

### [Page 27: Printed Circuit Boards Av/Crt/Vm Coil](#)

PRINTED CIRCUIT BOARDS AV/CRT/VM COIL (INSERTED PARTS) SOLDER SIDE CP852 Q853 C864 CP103 R860 C865 Q852 W134 R881 Q857 B852 L904 R875 R874 HS803 D856 R867 R871 B853 Q856 W004 Q854 C861 W003 R876 Q803 W002 C860 R873 R870 CP901 C2810 W001 L2801...

[Page 28](#) PRINTED CIRCUIT BOARDS AV/CRT/VM COIL (CHIP MOUNTED PARTS) SOLDER SIDE CEF158A Q717 Q716 Q705 Q703 Q701 R709 R707 Q104 Q702 R711 R157 R167 IC701 Q706 IC199\_1 C759 R150 R719 Q101 R116 CEF155A CCF069A Q102 Q103 R104 Q707 R172 R726 R739 R110 IC704 R165...

### [Page 29: Tv Mt/Front Jack](#)

PRINTED CIRCUIT BOARDS TV MT/FRONT JACK (INSERTED PARTS) SOLDER SIDE CAUTION FOR SERVICE INFORMATION ABOUT CRITICAL CC601 CC602 D601 COMPONENTS, SEE INSIDE BACK COVER. CD101 W105 CD605 B405 CD3203 CP1002 D2001 R404 C406 CD1001 W844 W004 C569\_1 R638 IC602 W008 D406 W104 CP510...

[Page 30](#) PRINTED CIRCUIT BOARDS TV MT/FRONT JACK (CHIP MOUNTED PARTS) SOLDER SIDE CEE040A R446 R409 R549 Q507 R534 R541 R542 R537 Q510 Q501 R539 R573 CME018A R502 Q2001 Q615 R676 Q408 Q407 Q617 R496 Q616 Q606 R497 R686 Q607 R657 Q605 Q608 R642 R633...

### [Page 31: Digital](#)

PRINTED CIRCUIT BOARDS DIGITAL (BOTTOM SIDE) DIGITAL (TOP SIDE) POWER2 C3431 C2486 C2508 R2481R2482 R2422 R2421 R2458 R2420 R2419 R2460 R2461 R2462 R2457 R2459 IC2406 C2450 R3427 R3428 C2509 CEF151A D3408 X2401 CEF151A C2515 NR2403 C2451 C3410 R2498 NR2405 C2453 R3413 NR2402 R2499...

[Page 32](#) W870 D607 R684 CHROMA/PROGRESSIVE/PIN SCHEMATIC DIAGRAM (TV MT PCB) 10K 1/4W MTZJ27B-EIC FROM/TO OPERATION D610 D608 PROTECT TO CRT/SVM 1SS133 1SS133 R685 D609 R686 D624 CP602 (CP802B) B2013H02-7P 1/4W 1SS133 W801 1SS133T-77 SCL1 CUT OFF(9V) C679 SDA1 GND(SIGNAL) R.OUT Y\_OUT S802X G.OUT PB\_OUT...

### [Page 33: Deflection](#)

DEFLECTION SCHEMATIC DIAGRAM TO CRT (TV MT PCB) CD803 (CP803) CH83038A V.OUTPUT IC TO TILT COIL CP403 IC401 LA78041 A2502WV2-2P TILT\_DR[+] THERMAL PROTECTION FROM/TO DY TILT\_DR[-] W843 CP404 B06B-DVS-L\_(LF) PUMP UP TILT TEST W844 25.0 12.0 25.0 L402 OP AMP IC R418 IC402 LA6510...

### [Page 34: Tv Power](#)

TV POWER SCHEMATIC DIAGRAM FROM/TO OPERATION DEGAUSS\_H D540 R536 D547 (TV MT PCB) R542 D530 D553\_1 BUFFER 1N4937 100 1/4W RB085T-40 RB085T-40 Q507 MTZJ11B-EIC 2SA1530A L509 D502 RELAY DRIVE POWER\_FAIL Q503 D555 10uHTSL0808 1SS133 10.9 KTC3198 R513 CP503 RGP15J 003P-2100 10K 1/4W L501 GND2...

### [Page 35: Operation](#)

OPERATION SCHEMATIC DIAGRAM CD509 (CP104) CU2C2001 FROM/TO MICON (TV MT PCB) AT+5V AT+3.3V UNREG+8V UNREG+12V L505 UNREG+5V TUNER+30V(E0) W5T29X7.5X19 POWER\_FAIL STANDBY\_L DEGAUSS\_H TV\_POWER\_H FROM/TO TV POWER TV\_POWER\_H POWER\_FAIL DEGAUSS\_H UNREG+5V W816 UNREG+8V AT+3.3V P.CON+5V P.CON+32V W832 W875 TO SOUND AMP/FRONT AV (MOTOR) GND2 W872...

### [Page 36: Sound Amp/Front Av](#)

SOUND AMP/FRONT AV SCHEMATIC DIAGRAM (TV MT PCB) SOUND AMP IC IC1001 AN17808B L1002 ATT.CONT. ATT. HF70T22\*10\*14 SP1001 RIPPLE YDP4010-2 FILTER STAND 8 OHM 5W MUTE CD1002 SPEAKER CP1002 CU146803 16.0 16.5 12.7 A2502WV2-4P C1004 SP OUT L 1000 SOUND GND SPEAKER SOUND GND C1002...

### [Page 37: Micon](#)

MICON SCHEMATIC DIAGRAM (AV PCB) C101 D109 0.01 DTV\_A MUTE-L 1SS133 MUTE SW (Q1002) 0.05 EEP\_DATA Q107 C104 CP103 RT1N241C A2001WR2-7P R139 EEP\_SCL SCL\_EEP EEP ROM IC 128K IC EEP\_SDA IC199\_1 AT24C128N-10SU-1.8 SDA\_EEP 0.03 IIC\_OFF IIC\_OFF STEREO\_RESET MUTE SW (Q1003) SDA1 SDA2 TEST Q106...

[Page 38](#) STEREO SCHEMATIC DIAGRAM (AV PCB) FROM/TO MICON L905 P.CON+5V SDA1 10uH 0305 SCL1 STEREO\_RESET P.CON+8V P.CON+5V TO SOUND AMP/FRONT AV CP901 (CD1001) A2001WV2-4P AUDIO\_L AUDIO\_R DACM\_R D\_CTR\_I/O\_0 DACA\_L ADR\_SEL DACM\_L D\_CTR\_I/O\_1 VREF2 STANDBYQ FROM/TO TUNER DACM\_SUB I2S\_DA\_IN3 I2S\_WS3 AUDIO\_CL\_OUT I2S\_CL3 I2S\_DA\_OUT C914 US STEREO/BBE IC...

### [Page 39: Av\\_Switch/Jack](#)

AV\_SWITCH/JACK SCHEMATIC DIAGRAM (AV PCB) YUV SW IC IC702 NJM2584AM(TE1) VAR\_A\_OUT\_R COAXIAL/AUDIO OUT C706 C731 VAR\_A\_OUT\_L J705 IN1B IN1A D AUDIO DRIVER MSP-213V1-732\_NI\_LF Q703 R738 MUTE L704 C716 GND1 D701 R789 2SC3928A 2.85 EXT\_MUTE P.CON+5V R732 Q717 680 1/4W 2.19 2SC3928A R747 10P CH...

[Page 40](#) TUNER SCHEMATIC DIAGRAM (AV PCB) DIGITAL/ANALOG TUNER W/NTSC\_MPX TU2801 ENG36A53KF FROM/TO MICON 4.96 31.7 3.33 3.32 0.27 3.87 1.45 4.98 0.82 C2807 C2801 C2804 AFT\_MAIN 0.1 B 0.1 B 0.1 B DTV\_POWER\_ON-H C2831 DTV\_RESET 0.1 B L2802 DTV\_RX DTV\_TX 4.96 22uH 0305 SD-H...

### [Page 41: Crt/Svm](#)

CRT/SVM SCHEMATIC DIAGRAM (CRT PCB) CRT BLOCK L805 SVM BLOCK 100uH TP804 R804 3.9K 1/4W R828 R850 GREEN AMP Q801 123.5 R816 2SC4075D/E 3.3K 1/4W 6801/2W W858 L810 FROM TV POWER FROM CHROMA/PROGRESSIVE/PIN D801 47 1/4W 15uH 0305 CP851B (CP851A) 1SS133 52147-0310 CP802B...

### [Page 42: Asic](#)

ASIC SCHEMATIC DIAGRAM (DIGITAL PCB) ATSC/CLEAR CABLE ASIC IC ATSC/CLEAR CABLE ASIC IC ATSC/CLEAR CABLE ASIC IC ATSC/CLEAR CABLE ASIC IC HS2401 IC2401 (4/14 OSC) X240H 763WAA0351 IC2401 X240H (1/14 VDD) IC2401 X240H (2/14 VSS) IC2401 X240H (3/14 VSS) C2500 0.1 B C2423 0.1 B...

### [Page 43: Sdram](#)

SDRAM SCHEMATIC DIAGRAM (DIGITAL PCB) ATSC/CLEAR CABLE ASIC IC IC2401 X240H (5/14 SDRAM) NR2402 4D02WGJ0220TCE MEM\_DQ0 MAD4 DQA\_0 MAA\_4 AD28 MAD10 MAA\_10 AD27 MEM\_DQ1 MAD0 DQA\_1 MAA\_0 AC28 MAD5 MAA\_5 AC27 MEM\_DQ2 DQA\_2 NR2403 MEM\_DQ3 DQA\_3 4D02WGJ0220TCE MAD2 MEM\_DQ4 MAA\_2 AD29 DQA\_4 MAD6...

### [Page 44: Flash](#)

FLASH SCHEMATIC DIAGRAM (DIGITAL PCB) ATSC/CLEAR CABLE ASIC IC ATSC/CLEAR CABLE ASIC IC IC2401 X240H (6/14 FLASH) IC2401 X240H (7/14 FLEX BUS) C2509 0.1 B NFCLE FCLK NFCLE FAD(0) FCLK JG2457 ROMSCK\_NFALE NFALE FAD(1) FBE(0) ROMSO\_NFWE# NFWEb FAD(2) FBE(1) FROM/TO VIDEO DECODER CS\_NF1# NFCEb(1) FAD(3)

### [Page 45: Front End](#)

FRONT END SCHEMATIC DIAGRAM (DIGITAL PCB) R2490 C2492 R2493 68P CH C2606 ATSC/CLEAR CABLE ASIC IC 220P CH IC2401 X240H (11/14 FRONT END) FROM VIDEO DECODER VI\_IN0 FS\_OUTP C2540 B2411 FS\_DVDD FDCFE1.8V VI\_IN1 FS\_OUTN DVIDATA0 68P CH BLM18BD151SN1 DVIDATA1 VI\_IN2 FS\_DVDD DVIDATA2 DVIDATA3...

### [Page 46: Av Out](#)

AV OUT SCHEMATIC DIAGRAM (DIGITAL PCB) C2618 0.1 B R2533 C2605 47P CH R2534 C2608

47P CH C2623 FROM/TO FRONT END L2414 HDMI MUTE SW V[PR]\_OUT Q2418 47P CH 0.47uH  
2SC3928A C2625 A\_MUT-L T\_FAT\_IFP 47P CH T\_FAT\_IFN C2627 R2426 R2428 FAT\_IFAGC 47P CH  
GPIOC[8]...

[Page 47](#) POWER2 SCHEMATIC DIAGRAM (DIGITAL PCB) DC/DC CTL IC IC3401 AL1042 R3416  
W808 TO ASIC L3401 R3427 B3402 CORE\_1.2V CORE\_1.2V 0.047 BLM31PG391SN1L 4.7uH  
+1.8V 1/4W ELLCTV4R7N +3.3V R3428 D\_GND 0.047 1/4W TO FLASH +3.3V R3405 Q3404  
RT1N241C D\_GND Q3403 2SC3928A FROM/TO FRONT END +3.3V +1.8V D\_GND...

### [Page 48: Video Decoder](#)

VIDEO DECODER SCHEMATIC DIAGRAM (DIGITAL PCB) FROM/TO FLASH DAC\_SDA R6607  
I2C\_DATC DAC\_SCLK R6608 I2C\_CLKC VD\_INT# C66330.082 B R6610 FROM ASIC DVI\_RESET  
X6601 100DT02802 28.636363MHz 0.01 0.01 0.01 C6641 NR6604 0.01 0.01 4D02WGJ0330TCE  
TO FRONT END C6611 DVIDATA12 DVIDATA13 0.001 DVIDATA14 DVIDE FROM AV OUT  
DVIDATA15...

### [Page 49: Hdmi](#)

HDMI SCHEMATIC DIAGRAM (DIGITAL PCB) EEP\_ROM IC IC3601 BR24L02F-WE2 NR3603  
HDMI\_RESET 4D02WGJ0330TCE R3606 DVIVSYNC JG3609 DVIHSYNC 4.7K JG3604 NC NC NC NC  
NC NC NC NC NC NC NC NC NC NC NC NC NC NC NC DVIDE DVIDATA0 JG3605 JG3606 JG3607  
FROM/TO FRONT END...

### [Page 50: Waveforms](#)

WAVEFORMS CHROMA/PROGRESSIVE/PIN 10µs 10µs 1.0V 1.0V 0.5V DEFLECTION 10µs 10µs  
20µs 1.0V 2.0V 1.0V 10µs 10µs 1.0V 0.5V 1.0V 10µs 0.5V 5.0V 1.0V SOUND AMP/FRONT AV  
10µs 20µs 200m 0.5V 1.0V NOTE: The following waveforms were measured at the point of the  
corresponding balloon number in the schematic diagram.

[Page 51](#) WAVEFORMS 20ms 20µs 200m 1.0V 1.0V 20ms 20µs 1.0V 1.0V 1.0V STEREO 20ms  
20µs 200mV 1.0V MICON 10ms 20µs 1.0V 200mV CRT/SVM 0.5ms 20µs 20µs 1.0V 1.0V NOTE:  
The following waveforms were measured at the point of the corresponding balloon number in  
the schematic diagram.

[Page 52](#) WAVEFORMS AV\_SW/JACK 20µs 20µs 100ns 200mV 2.0mV 200mV AV OUT 20µs 5µs  
20µs 200mV 200mV 200mV ASIC 20µs 20ns 5µs 20mV 200mV 200mV 20ns 5µs 20mV 200mV  
200mV TUNER 20µs 20µs 200mV 200mV NOTE: The following waveforms were measured at the  
point of the corresponding balloon number in the schematic diagram.

### [Page 53: Mechanical Exploded Views](#)

MECHANICAL EXPLODED VIEW PCB110 (CRT PCB ASS'Y) PCBD80 (VM COIL PCB ASS'Y) 101M  
101K 101I 101J 101K 101H 101D 101L 101K PCB260 101B (FRONT JACK PCB ASS'Y) 101K 101K  
101A 101H 101G 101K 101E 101F 101C...

[Page 54](#) MECHANICAL EXPLODED VIEW 102C 102A 102B PCBDH0 (DIGITAL PCB ASS'Y)  
PCB070 (MAIN PCB ASS'Y) PCBD20 (AV PCB ASS'Y)

[Page 55](#) MECHANICAL EXPLODED VIEW (PACKING DIAGRAM) 133, 134, 135, 136, TM101...

### [Page 56: Mechanical Replacement Parts List](#)

MECHANICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No. Description  
72783681 7A701A666A FRONT CABI ASS'Y 101A 72783682 701WPBA063 CABINET FRONT 101B  
72799403 711WPA0210 PLATE,FRONT 101C 72783684 712WPJC246 DOOR 101D 72799464  
713WPA0334 GUIDE,REMOCON 101E 72799568 7230007791 SHEET,BUTTON 101F 72799569  
7230007792 AV,LABEL 101G 72781985...

[Page 57](#) MECHANICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No.  
Description 72781286 8141H60D5U SCREW,TAP TITE(P) GW20 6\*45 CH HEXAGON 72798791  
8110630A0U SCREW TAP TITE(P) BRAZIER 3\*10 CH 72798790 811063080U SCREW TAP TITE(P)  
BRAZIER 3\*8 CH 72798795 8117540B0U SCREW TAP TITE(B0) TRUSS 4\*20 CH 72781228  
810213080U...

## [Page 58: Electrical Replacement Parts List](#)

ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No. Description  
RESISTORS R101 72794614 R65582010J R,FUSE OHM 1/2W ! R401 72783828 R4K1T4222F  
R,METAL 2.2K OHM 1/4W ! R403 72781717 R4K1T4183F R,METAL 18K OHM 1/4W ! R405  
72783394 R4K1T4153F R,METAL 15K OHM 1/4W ! R406 72795113 R3X18A680J...

[Page 59](#) ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No.  
Description CAPACITORS C670 72794449 E02LU2470M UF 16V C808 72795857 C13DB0713K  
0.001 UF 2KV B C809 72797430 E0ELFD330M UF 250V C1003 72797479 E5EZF4222M 2200 UF  
35V DIODES D101 72794491 D1VT001330 DIODE,SILICON 1SS133T-77 D103 72783213...

[Page 60](#) ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No.  
Description DIODES D550 72783214 D9WU05R62B DIODE,ZENER MTZJ5.6B-EIC ! D551  
72795544 D6E027110A DIODE,VARISTA ENE271D-10A D552 72794491 D1VT001330  
DIODE,SILICON 1SS133T-77 ! D553 72781353 D27A85T400 DIODE,SCHOTTKY RB085T-40 D554  
72794491 D1VT001330 DIODE,SILICON 1SS133T-77 D555 72794476 D23TGP15J0  
DIODE,SILICON...

[Page 61](#) ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No.  
Description IC2402 72783776 ICLJ022ET5 HY5DU561622ETP-D43 IC2403 72783776 ICLJ022ET5  
HY5DU561622ETP-D43 IC2404 72783777 I57F04L640 BR24L64F-WE2 IC2405 72781496  
I97F052290 BD5229G-TR IC2406 72783778 ICLF0281A0 HY27US08281A-TPCB IC2800  
72783369 I55J07W660 TC7W66FU(Te12L,F) IC3401 72783779 I1LF010420 AL1042 ! IC3402  
72781440 I07F0C0WFO BA00BC0WFP-E2...

[Page 62](#) ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No.  
Description TRANSISTORS Q856 72794577 TCATC31980 TRANSISTOR,SILICON KTC3198-  
AT(Y,GR) Q857 72794578 TAATA12660 TRANSISTOR,SILICON KTA1266-AT(Y,GR) Q858  
72794579 TA10021400 TRANSISTOR,SILICON 2SA2140 Q859 72794580 TC10059930  
TRANSISTOR,SILICON 2SC5993 Q860 72794577 TCATC31980 TRANSISTOR,SILICON KTC3198-  
AT(Y,GR) Q1098 72795479 T8RA030520 TRANSISTOR,SILICON 2SC3052-T1 Q1099...

[Page 63](#) ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No.  
Description JACKS J707 72799002 060Q431019 RCA JACK YKC21-7306N J708 72799004  
063D000078 JACK,PLATE MSP-803V-BBA-432 NI LF J709 72799004 063D000078 JACK,PLATE  
MSP-803V-BBA-432 NI LF ! J801 72799008 066C130024 SOCKET,CATHODE RAY TUBE  
CVT3205-5101FSZ J2201 72783793 063E700012 JACK S4-25SZ J2202 72783794...

[Page 64](#) ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No.  
Description MISCELLANEOUS B3607 72783737 024AC5151E CORE,BEADS BLM18BD151SN1D  
B6601 72798929 024AC5102F CORE,BEADS BLM18BD102SN1D B6602 72798929 024AC5102F  
CORE,BEADS BLM18BD102SN1D B6606 72798929 024AC5102F CORE,BEADS  
BLM18BD102SN1D B6607 72798931 024AC5600E CORE,BEADS BLM18BB600SN1D B6608  
72798931 024AC5600E CORE,BEADS BLM18BB600SN1D B6609...

[Page 65](#) ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No.  
Description NR2408 72783803 110P4560M5 R,NETWORK 4D02WGJ0560TCE NR2409 72783803  
110P4560M5 R,NETWORK 4D02WGJ0560TCE NR2410 72783803 110P4560M5 R,NETWORK  
4D02WGJ0560TCE NR2411 72783803 110P4560M5 R,NETWORK 4D02WGJ0560TCE NR2412  
72783803 110P4560M5 R,NETWORK 4D02WGJ0560TCE NR2413 72783803 110P4560M5  
R,NETWORK 4D02WGJ0560TCE NR3601 72783804...

[Page 66](#) SERVICE INSTRUCTION File No. 01C200803 Date: Jan 8, 2008 Product: COLOR  
TELEVISION Model: 32D46, 26HF66, 26DF56 Subject: Part changed for opacity improvement as  
shown table below. (New part No. assignment for opacity improved IC and PCB unit with opacity  
improved IC)

[Page 67](#) Location Model TSB S/N Vendor No Description TSB S/N Vendor No Description  
MEMORY DATA MEMORY DATA IC101 75004515 S3Y9010M02 75010283 S3Y9010M03  
OEC7161B OEC7136C TV MT PCB ASS'Y TV MT PCB ASS'Y PCBD70 75003529 A3Y9010070  
75010284 F3Y9010007B CMF089A CMF089A 26DF56 MEMORY DATA MEMORY DATA IC2408  
75004520...

[Page 68](#) TOSHIBA CORPORATION 1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105-8001,

JAPAN...