

TOSHIBA

Toshiba 27A40 Service Manual

Color television n0es chassis

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SERVICE MANUAL **TOSHIBA** COLOR TELEVISION

27A40 is the same as 27A50 except for the parts tabled on back of this sheet.

Use this service manual together with the service manual of 27A50 (File No. 020-200004).

– SUMMARY –

FILE NO. 023-200009

NOES Chassis

27A40 TOSHIBA

(TAC0015)

PUBLISHED IN JAPAN, May., 2000 S

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Toshiba 27a51: user guide (32 pages)

Summary of Contents for Toshiba 27A40

[Page 1](#) (TAC0015) - SUMMARY - 27A40 is the same as 27A50 except for the parts tabled on back of this sheet. Use this service manual together with the service manual of 27A50 (File No. 020-200004). PUBLISHED IN JAPAN, May., 2000 S...

[Page 2](#) CF, 470 ohm U902 Main Board, PB9549B W661 23151225 Speaker, SPK-1228, 60X90mm, 8 ohm W662 23151225 Speaker, SPK-1228, 60X90mm, 8 ohm Y101 23563899 Owner's Manual, English, 27A40 Y101F 23563900 Owner's Manual, French, 27A40 TOSHIBA CORPORATION 1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105-8001, JAPAN...

[Page 3](#) FILE NO. 020-200004 SERVICE MANUAL COLOR TELEVISION N0ES Chassis 27A50

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SETTING & ADJUSTING DATA17 LOCATION OF CONTROLS

[Page 5: Chapter 1 General Adjustments](#)

CHAPTER 1 GENERAL ADJUSTMENTS SAFETY INSTRUCTIONS WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW. X-RAY RADIATION PRECAUTION 1. Excessive high voltage can produce potentially hazard- 2. This receiver is equipped with a Fail Safe (FS) circuit which ous X-RAY RADIATION.

[Page 6: Set-Up Adjustment](#)

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL. SET-UP ADJUSTMENT (FOR 13", 14", 19", 20") The following adjustments should be made when a complete realignment is required or a new picture tube is installed. Perform the adjustments in order as follows : 1.

[Page 7](#) CONVERGENCE ADJUSTMENTS CIRCUMFERENCE CONVERGENCE ADJUSTMENT NOTE: Before attempting any convergence adjustments, the 1. Loosen the clamping screw of deflection yoke slightly to receiver should be operated for at least fifteen min- allow the yoke to tilt. utes. 2. Temporarily put a wedge as shown in figure 1. (Do not remove cover paper on adhesive part of the wedge.) CENTER CONVERGENCE ADJUSTMENT 3.

[Page 8](#) WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL. (FOR 35", 36") The following adjustments should be made when a complete realignment is required or a new picture tube is installed. Perform the adjustments in order as follows : 1.

[Page 9](#) CONVERGENCE ADJUSTMENTS 4-POLE NOTE: Before attempting any convergence adjustments, MAGNETS the receiver should be operated for at least fifteen 6-POLE minutes. MAGNETS CENTER CONVERGENCE ADJUSTMENT 1. Display built-in cross-dot pattern using the TEST SIGNAL SELECTION function. 2. Adjust the BRIGHTNESS and CONTRAST Controls for well defined pattern.

[Page 10: Service Mode](#)

SERVICE MODE 1. ENTERING TO SERVICE MODE 1) Press MUTE button once 2) Press MUTE button 3) While pressing the MUTE button, on Remote Control. again to keep pressing. press MENU button on TV set. MUTE (Service mode display) 2. DISPLAYING THE ADJUSTMENT MENU 1) Press MENU button on TV.

[Page 11](#) 4. SELECTING THE ADJUSTING ITEMS 1) Every pressing of CHANNEL s button in the service mode changes the adjustment items in the order of table-2. (t button for reverse order) Refer to table-2 for preset data of adjustment mode. (See SETTING & ADJUSTING DATA on page 17.) 5.

[Page 12](#) 8. SELF DIAGNOSTIC FUNCTION 1) Press "9" button on Remote Control during display of adjustment menu in the service mode. The diagnosis will begin to check if interface among IC's are executed properly. 2) During diagnosis, the following displays are shown. SELF CHECK NO.

[Page 13: Design Mode](#)

DESIGN MODE 1. ENTERING TO DESIGN MODE 1) Select the Service mode. 2) While pressing RECALL button on 3) Press MENU button on TV. Remote and press MENU button on TV. ITEM Press DATA Press (Design mode) (Adjustment mode) When QA02 is initialized, items "OPT0" and "OPT1" of DESIGN MODE are set to the data of the representative model of this chassis family.

[Page 14: Electrical Adjustments](#)

ELECTRICAL ADJUSTMENTS ITEM ADJUSTMENT PROCEDURE FOCUS VR ADJ 1. Enter the service mode, then select any register item. 2. Press the TV/VIDEO button on the Remote until the black cross-bar pattern appears on the screen. 3. Adjust the FOCUS control (on T461) for well defined scanning lines on the picture screen.

[Page 15](#) ITEM ADJUSTMENT PROCEDURE E-W PARABOLA 1. Call up the adjustment mode display, then select the item DPC. (DPC) 2. Press the TV/VIDEO button on Remote until the cross-hatch pattern appears on the screen. 3. Press the VOLUME s or t button to make vertical lines straight as shown below. HORIZONTAL POSITION 1.

[Page 16](#) MTS ADJUSTMENT (FOR N5ES/N7S CHASSIS) ITEM INPUT SIGNAL ADJUSTMENT PROCEDURE • 1kHz 30% mod. → ANT ATTENUATOR 1. Connect rms meter to pin 12 of H002. (ATT) 2. Display item ATT on screen. terminal 3. Change data by VOLUME s/t buttons so that output at pin 12 of H002 becomes value as close as 142mVrms.

[Page 17](#) MTS ADJUSTMENT (FOR N0ES CHASSIS) ITEM INPUT SIGNAL ADJUSTMENT PROCEDURE • 1kHz 30% mod. → ANT ATTENUATOR 1. Connect rms meter to pin 34 of QG01. (ATT) terminal 2. Display item ATT on screen. 3. Change data by VOLUME s/t buttons so that the reading of meter becomes value as close as 137mVrms.

[Page 18: Circuit Checks](#)

CIRCUIT CHECKS HIGH VOLTAGE CHECK Troubleshooting Guide for Fail Safe Circuit CAUTION: There is no HIGH VOLTAGE ADJUSTMENT on this chassis. Checking should be done following the steps below. Check that the set returns to normal operation when pin 12 1.

[Page 19: Chapter 2 Specific Informations](#)

CHAPTER 2 SPECIFIC INFORMATIONS SETTING & ADJUSTING DATA SAFETY INSTRUCTIONS 27" HIGH VOLTAGE AT ZERO BEAM: 28.3kV MAX HIGH VOLTAGE: 29.7 kV Table-1 SERVICE MODE ADJUSTING ITEMS AND DATA IN THE SERVICE MODE: Item Name of adjustment Preset Data Item Name of adjustment Preset Data...

[Page 20: Location Of Controls](#)

LOCATION OF CONTROLS Front view TV/VIDEO button VOLUME T/S button CHANNEL s/t button MENU TV / VIDEO VOLUME CHANNEL POWER T/S/t/s button POWER button MENU button Remote sensor POWER indicator Rear view COLOR VIDEO VIDEO VIDEO STREAM INPUT MONO MONO S-VIDEO AUDIO AUDIO...

[Page 21](#) Remote MUTE button POWER RECALL MUTE RECALL button POWER buttons Channel Number buttons CH RTN CH RTN button MENU button CHANNEL s/t buttons MENU/ ENTER menu s/t buttons VOLUME T/S buttons menu T/S buttons TV/CABLE/VCR switch CABLE EXIT button Set to "TV" to control the TV. EXIT FAV CH TV/VIDEO...

[Page 22: Programming Channel Memory](#)

PROGRAMMING CHANNEL MEMORY The channel memory is a list of TV channel numbers your TV will stop on when you press the CHANNEL s or t button. First, use the TV/CABLE and CH PROGRAM functions to preset all active channels in your area. If necessary, arrange the preset channels with the ADD/ERASE functions so that you can tune into only desired channels.

[Page 23: Circuit Block Diagram](#)

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[Page 24: Chassis And Cabinet Replacement Parts List](#)

CHASSIS AND CABINET REPLACEMENT PARTS LIST WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL. CAUTION: The international hazard symbols " " in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

[Page 25](#) Location Location Part No. Description Part No. Description C679 24667470 EL, 47?F,

[Page 37: Specifications](#)

SPECIFICATIONS 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 120V AC, 60Hz POWER CONSUMPTION...

[Page 38](#) TOSHIBA CORPORATION 1-1, SHIBAURA 1- CHOME, MINATO-KU, TOKYO 105-8001, JAPAN...

[Page 39](#) SCHEMATIC DIAGRAM MODEL : 27A50 Chassis No. TAC0012 WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON THE MANUAL FOR THIS MODEL. CAUTION: The international hazard symbols "*" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

[Page 40](#) SCHEMATIC DIAGRAM MODEL : 27A50 Chassis No. TAC0012 NOTE: WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON THE MANUAL FOR THIS MODEL. 1. RESISTOR Resistance is shown in ohm [K = 1.000, M = 1.000.000]. All resistors are 1/6W and 5% 4.