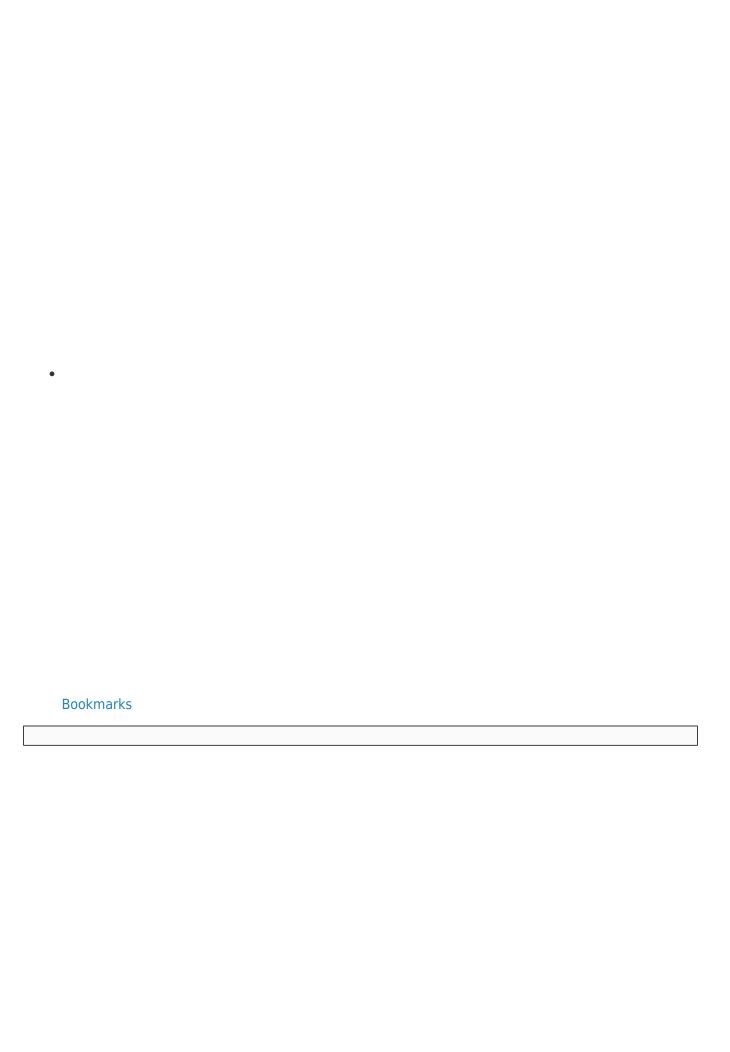
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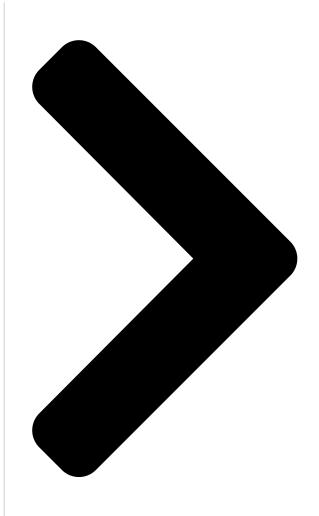
Toshiba 43A62 Service Manual

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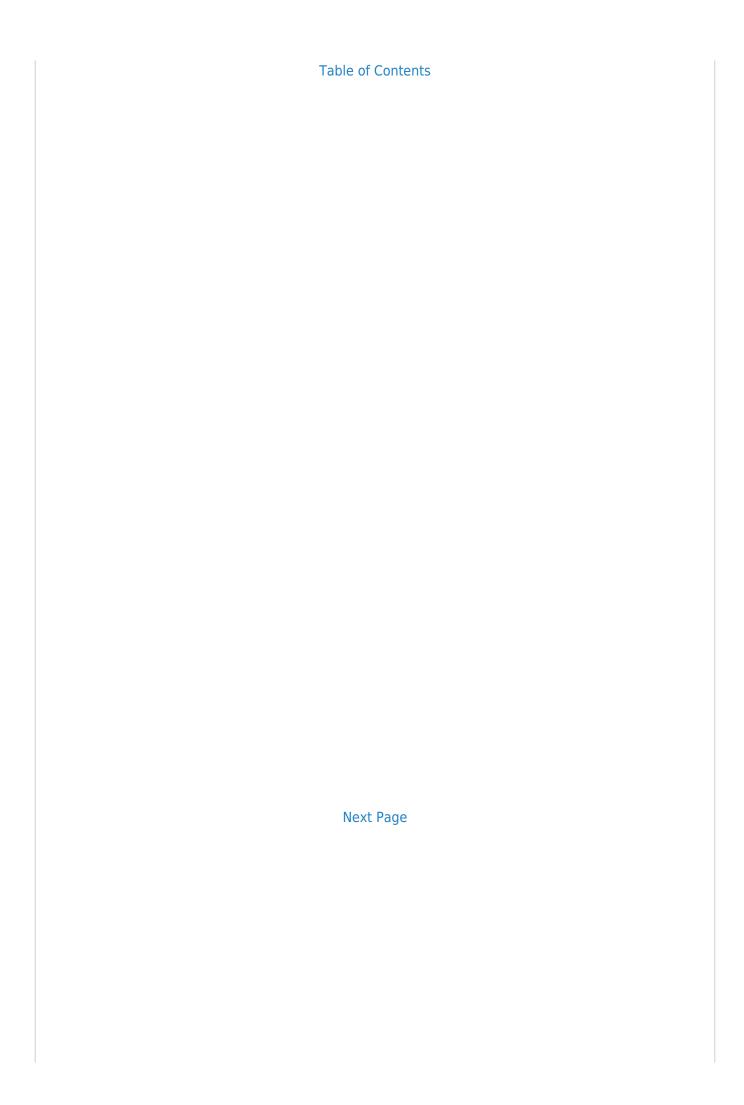


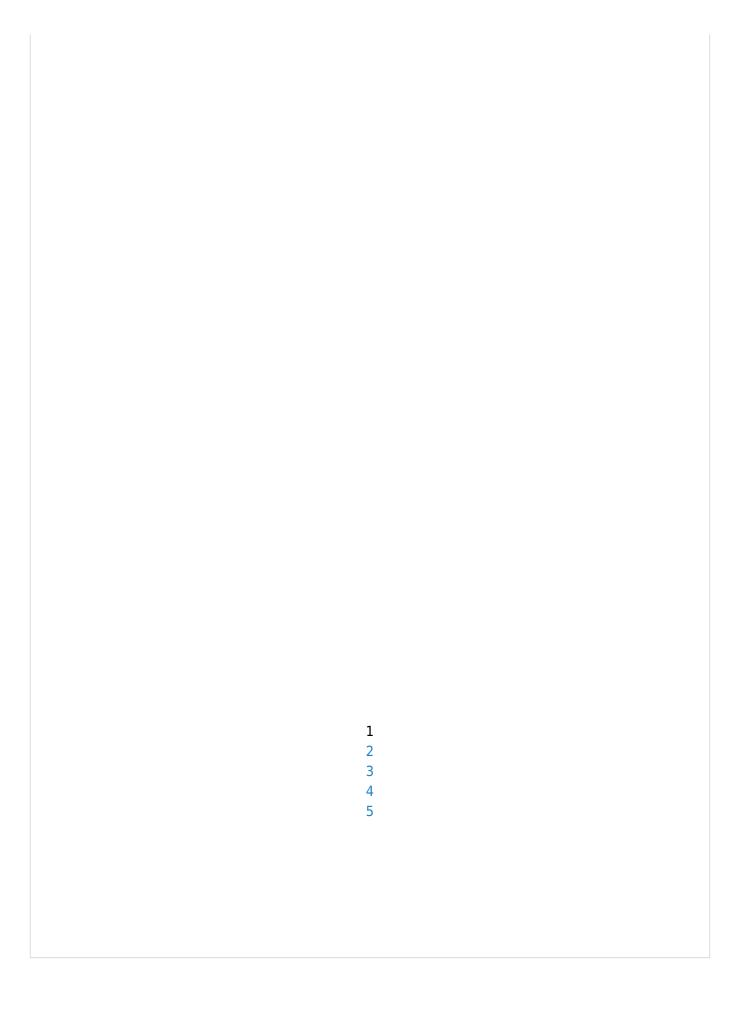
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SERVICE MANUAL





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Projection television (52 pages)

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TV Toshiba 43A61 Service Manual

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(35 pages)

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(42 pages)

Summary of Contents for Toshiba 43A62

<u>Page 5</u> FILE NO. 020-200111 SERVICE MANUAL COLOR TELEVISION N1NSP Chassis 50A61 , 50A11 (TAC0171) (TAC0172) 61A61 (TAC0173) PUBLISHED IN JAPAN, Jul., 2001 So...

Page 6: Table Of Contents

TABLE OF CONTENTS CHAPTER 1 GENERAL ADJUSTMENTS SAFETY INSTRUCTIONS
3 CRT ASSEMBLY REPLACEMENT AND MOUNTING 4 PICTURE
TUBE COMPONENTS ADJUSTMENT REPLACEMENT OF THE CRT
SERVICE MODE9 ELECTRICAL ADJUSTMENT11
CONVERGENCE ADJUSTMENT

.....

Page 7: Chapter 1 General Adjustments

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

Page 8: Crt Assembly Replacement And Mounting

CRT ASSEMBLY REPLACEMENT AND MOUNTING CAUTION: DO NOT LOOSEN THE HEX HEAD BOLTS WITH SPRINGS (12 PCS), BECAUSE THOSE ARE FOR SEALING OF CRT COOLANT. Attention Serviceman The Hex Head Bolts with Springs. (see sketch) used on CRT assembly, 8 o'clock are "NOT"...

Page 9 TO REMOVE CRT (Same procedure for R, G, B) 1. Remove CRT DRIVE Board, S. V. M. COIL and DEF. YOKE from CRT. 2. Remove Lens Assembly. 3. Detach CRT Anode Cap from CRT. 4. Remove CRT Assembly from CRT Mounting. Anode Cap CRT REPLACEMENT (Same procedure for R, G, B) Reverse the removal procedures except the followings.

Page 10: Picture Tube Components Adjustment

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRE- CAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL. PICTURE TUBE COMPONENTS ADJUSTMENT DESCRIPTION OF NECK COMPONENTS TILT ADJUSTMENT Rotate R, G, B deflection yoke so that picture becomes horizon, then fasten screw.

Page 11 LOCATION OF SCREEN AND FOCUS VR'S SCREEN VR FOCUS VR - 7 -...

Page 12: Replacement Of The Crt

REPLACEMENT OF THE CRT Service parts are provided for each R, G and B. The contents of the parts are as follows. $50A61\ 23008509\ 23008510\ 23008511\ \uparrow\ \uparrow\ 50A11\ 61A61\ 23008625\ 23008626\ 23008627\ REPLACEMENT OF HIGH VOLTAGE CABLE 1. When replacing Anode Lead or Anode Cap with new one, remove Lead Holder from old lead as shown in ANODE LEAD figure below, and put it on new lead.$

Page 13: 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.

<u>Page 14</u> 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 15: Electrical Adjustment

ELECTRICAL ADJUSTMENT ITEM ADJUSTMENT PROCEDURE VERTICAL POSITION (VCEN) 1. Call up the adjustment mode display, then select item VCEN. 2. Press the VOLUME s or t button to get the voltage $\pm 30 \pm 10$ mV. 3. Measuring method of voltage as follows. TP-V (on SIGNAL board) DIGITAL...

<u>Page 16</u> ITEM ADJUSTMENT PROCEDURE HEIGHT 1. Call up the adjustment mode display, then select the item HIT. (HIT) 2. Press the VOLUME s or t button to get the picture so the top of raster begins to lack. 3. Press the VOLUME s button to advance the data by 10 steps. Note: Check the vertical picture position is correct.

Page 17: Convergence Adjustment

CONVERGENCE ADJUSTMENT Adjust convergence from center to circumference in order. 1. Select the adjustment mode following the steps on page 9. RCUT KEY FUNCTION IN THE CONVERGENCE ADJUSTMENT: Up: 2 button Selet Green color: 3 button Left: 4 button 2.

<u>Page 18</u> NOTES In many cases, color misconvergence may be corrected by returning HIT and WID data in main deflection side to initial adjusting values. Following cases will surely require readjustment of convergence. CRT REPLACEMENT When CRT is replaced, main deflection readjustment and color matching are required. Perform following procedures.

Page 19: Screen And Mirror Alignments

SCREEN AND MIRROR ALIGNMENTS ASSEMBLING OF MOUNTING OF FRONT SCREEN FRONT SCREEN 5 screws Fresnel sheet 3 screws Protect shield FRONT 3 screws (for 50") Lenticular sheet 3 screws Protect shield FRONT Fresnel sheet Stick cotton cloth tape Label with part Label with part number number...

Page 20: Circuit Checks

CIRCUIT CHECKS HIGH VOLTAGE CHECK FS CIRCUIT CHECK CAUTION: There is no HIGH VOLTAGE ADJUSTMENT on The Fail Safe (FS) circuit check is indispensable for the final this chassis. Checking should be done following check in servicing. Checking should be done following the the steps below.

Page 21: Chapter 2 Specific Informations

CHAPTER 2 SPECIFIC INFORMATIONS SETTING & ADJUSTING DATA SAFETY INSTRUCTIONS 50", 61" HIGH VOLTAGE AT ZERO BEAM: 31.3 kV MAX HIGH VOLTAGE: 32.4 kV Table-1 SERVICE MODE ADJUSTING ITEMS AND DATA IN THE SERVICE MODE: Item Name of adjustment Preset Date Item Name of adjustment...

Page 22: Location Of Controls

LOCATION OF CONTROLS (Representative : 50A61) TV front Remote sensor (Behind the screen) Behind the door Power Indicator T Sst MENU EXIT TV/VIDEO DEMO POWER Video Audio inputs POWER VOLUMET S TV/VIDEO (Video3) CHANNEL st DEMO MENU EXIT TV rear AUDIO CENTER CHANNEL IN ANT (75Ω)

<u>Page 23</u> Remote Control RECALL LIGHT RECALL POWER LIGHT POWER TV/CABLE/VCR switch MUTE TV/VIDEO TIMER CABLE Set to "TV" to control the TV. TIMER MUTE TV/VIDEO CHANNEL s/t Channel Number VOLUME s/t CH RTN CH RTN C. CAPT ADV/ MENU PIP CH ENTER PIP CH s FAV t...

Page 24: Programming Channel Memory

PROGRAMMING CHANNEL MEMORY The channel memory is the list of TV channel numbers the TV tunes in 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 automatically. If necessary, arrange the preset channels with the ADD/ERASE functions so that you can tune into only desired channels.

Page 25: Circuit Block Diagram

CIRCUIT BLOCK DIAGRAM - 21 - - 22 -...

Page 26: Mechanical Disassembly

MECHANICAL DISASSEMBLY 1 Speaker Grille Removal 2 Control Panel Removal 3 Front Mask Removal 4 Mask Removal A001 (A101) A201 A202 (A212) A201 A213 (A214) A224 K502 A268 K503 K501 A102 (K511) (A103) A102 4 screws (A103) 5 Shield Plate, Lens Removal 6 Mirror Removal 7 Back Board Removal 8 Light Box Removal...

Page 27: Chassis Replacement Parts List

CHASSIS REPLACEMENT PARTS LIST WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRE- CAUTION" 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.

<u>Page 28</u> Location Lo

- Page 29 Location Parts No. Parts No. Parts No. Parts No. Description Des
- <u>Page 30</u> Location Parts No. Parts No. Parts No. Parts No. Description D
- <u>Page 31</u> Location Parts No. Parts No. Parts No. Parts No. Description Descriptio
- <u>Page 32</u> Location Parts No. Parts No. Parts No. Parts No. Description Descriptio
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- <u>Page 36</u> Location Parts No. Parts No. Parts No. Parts No. Description Descriptio
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- <u>Page 40</u> Location Parts No. Parts No. Parts No. Parts No. Description D
- <u>Page 41</u> Location Parts No. Parts No. Parts No. Parts No. Description Description

Description Description Parts No. Parts No. Parts No. Parts No. Description Description Description Description Description D422 23118041 DIODE, MA111...

Page 42 Location Parts No. Parts No. Parts No. Parts No. Description Des

<u>Page 43</u> Location Parts No. Parts No. Parts No. Parts No. Description D

Page 44 THIS PAGE IS INTENTIONALLY LEFT BLANK. - 42 -...

Page 45 SIGNAL/CONV BOARD PD0175 BOTTOM (FOIL) SIDE - 43 - - 44 -...

Page 46 DEF/POWER BOARD PD0176 BOTTOM (FOIL) SIDE - 45 - - 46 -...

Page 47 A/V BOARD PD0177 BOTTOM (FOIL) SIDE CRT FRONT BOARD PD0178 BOTTOM (FOIL) SIDE - 47 -...

Page 48 DIGI-CONV BOARD PB9453 BOTTOM (FOIL) SIDE DIGI-COMB BOARD PB9398 BOTTOM (FOIL) SIDE – 48 –...

Page 49: Terminal View Of Transistors

TERMINAL VIEW OF TRANSISTORS 2SD2253 2SC3852 2SC752GTM 2SC752 2SA1788 (old) 2SD1763A 2SA562TM 2SC2482 2SC5243 2SC1569 2SA1015 2SC2655 2SC4544 2SC4721P 2SC1815 2SA1788 2SC2878 2SA1306 2SC1740S 2SA1186A 2SC2120 2SA9335 2SD1554 ON4409 RN2203 RN2201 2SD2253 RN2004 2SD1556 RN1203 2SD2553 RN1204 2SC5143 RN2204 RN1205 RN1202 RN1201 -...

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Page 51 MEMO	
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<u>Page 52</u> мемо	
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Page 53: Specifications

SPECIFICATIONS (Representative: 50A61) 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 120 V AC, 60 Hz AUDIO POWER...

Page 54 TOSHIBA CORPORATION 1-1, SHIBAURA 1- CHOME, MINATO-KU, TOKYO 105-8001,