

TOSHIBA

Toshiba TLP-C001 - Document Camera Service Manual

Service manual

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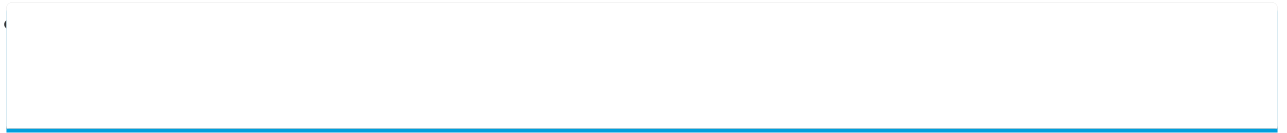
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SERVICE MANUAL **TOSHIBA** DOCUMENT CAMERA

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

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TLP-C001 TOSHIBA

FILE NO. 330-200515GR

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Related Manuals for Toshiba TLP-C001 - Document Camera

[Document Camera Toshiba TLPC001 Owner's Manual](#)

Document camera for toshiba data projector (55 pages)

[Document Camera Toshiba TLP-C001U Owner's Manual](#)

Document camera for toshiba data projector (55 pages)

[Document Camera Toshiba TLP-C001 Service Manual](#)

(34 pages)

[Document Camera Toshiba TLP-C001 Dimensions](#)

Toshiba tlp-c001 document camera: specifications (1 page)

[Document Camera Toshiba TLP-C001U Specification Sheet](#)

User guide 2 (2 pages)

Summary of Contents for Toshiba TLP-C001 - Document Camera

[Page 1: Document Camera](#)

This Service Manual describes replacement parts for green product (s). When repairing any green product (s), use the parts described in this manual and lead-free solder (*2). For (*1) and (*2) , see the next page. © TOSHIBA CORPORATION Published in Japan, December 2005 GREEN...

[Page 2](#) In line with this, Toshiba proactively promotes Green Procurement, and seeks to purchase and use products, parts and materials that have low environmental impacts. Green procurement of parts is not only confined to manufacture.

[Page 3: Part Replacement](#)

SECTION 1 PART REPLACEMENT 1.LOCATION OF MAIN PARTS TOP COVER B001: SPRING+BEARING A001: TOP COVER ASSY E001: ARM ASSEMBLY U002: KEYPAD PCB A003: CAMERA HEAD COVER KIT U003: IR RECEIVER CAMERA E002: CAMERA HEAD ASSY BOTTOM COVER U001: MAIN PCB A002: BOTTOM COVER A005: FOOT, RUBBER A004: LABEL, SPEC...

[Page 4: Assembly Instruction](#)

2.ASSEMBLY INSTRUCTION TLPC001 UNIT CAMERA BASE ASSEMBLY ASSEMBLY E002 CAMERA HEAD ASSY BOTTOM TOP COVER COVER ASSEMBLY ASSEMBLY ASSEMBLY B001 A001 U001 SPRING+BEARING TOP COVER ASSY MAIN PCB E001 U002 A002 ARM ASSEMBLY KEYPAD PCB BOTTOM COVER A003 U003 A005 CAMERA HEAD IR RECEIVER FOOT, RUBBER...

[Page 5: Replacement Of Mechanical Parts](#)

Cautions Before Servicing Electronic parts are susceptible to static electricity and may easily be damaged, so do not forget to take proper grounding treatment as required. Many screws are used inside the unit. To prevent missing, dropping, etc. of the screws, always use a magnetized screwdriver in servicing.

[Page 6](#) Remove the S-2 (force:2.8~3lb) that connected with "CAMERA HEAD ASSY"[23587758] Note: Go to 3-3 Arm Assembly for the further assembly instruction.

[Page 7: Base Assembly](#)

3-2 Base Assembly Step Figure Explanation Remove four "FOOT, RUBBER"[23587753] Remove five S-3 (force:2.8~3lb). 1.Tear off the sticker "LABEL, SPEC"[23587754] 2.Remove two S-4 (force:4.8~5lb). Remove the fixture metal.

[Page 8](#) Open the top cover from the base. Remove the cable which is connected with top cover and the base. Note: Go to 3-4 Top Cover Assembly for the further assembly instruction. Tear off the sticker on the cable and disconnect it. Note: Be careful for the direction of connector when connect the cable back with mainboard...

[Page 9](#) Remove two S-5 (force:4.8-5lb) Note: Go to 3-3 Arm Assembly and 3-5 Bottom Cover Assembly for the further assembly instruction.

[Page 10: Arm Assembly](#)

3-3 Arm Assembly Step Figure Explanation 1.Remove three S-1 (force:1.8~2lb) 2.Remove one S-9 (force:4.8~5lb) Remove one S-1 (force:1.8~2lb) Remove two S-6 (force:2.8~3lb) Note: The black rotation pad should be assembled with the right position. Take off the camera head - "CAMERA HEAD COVER KIT"[23587753] and remove the "SPRING+BEARING"[23587756]...

[Page 11](#) 1.Remove two S-2 (force:2.8~3lb) 2.Take off the joint cover-"CAMERA HEAD COVER KIT"[23587753]...

[Page 12: Top Cover Assembly](#)

3-4 Top Cover Assembly Step Figure Explanation 1.Remove four S-2 (force:2.8~3lb) 2.Take off two metal plates Remove the cable which is connected with "IR RECEIVER"[23587761] and "KEY PAD PCB"[23587760] Note: Please put the cable into the track of case when connect it back 1.Remove four S-1 (force:0.8~1lb) 2.Take off "KEY PAD PCB"[23587760] 1.Remove two S-7 (force:0.8~1lb)

[Page 13: Bottom Cover Assembly](#)

3-5 Bottom Cover Assembly Step Figure Explanation Remove four S-8 (force:2.8~3lb) 1.Remove three S-2 (force:2.8~3lb) 2.Take off "MAIN PCB"[23587759] 1.Remove one S-2 (force:2.8~3lb) 2.Take off the bottom plate Remove two metal plates...

[Page 14](#) 3-6 Screws Type FORM SIZE Location T2x7 Camera Assembly(4) Arm Assembly(4) Top Cover Assembly(4) T2.6x8 Camera Assembly(1) Base Assembly(1) Arm Assembly(2) Top Cover Assembly(4) Bottom Cover Assembly(4) T2.6x14 Base Assembly(5) T2.6x15 Base Assembly(2) M3x12 Base Assembly(2)

[Page 15](#) T2.6x8 Arm Assembly(2) M2x4 Top Cover Assembly(2) M4.75x7 Bottom Cover Assembly(4) M3x7 Arm Assembly(1)

[Page 16: Servicing Diagrams](#)

SECTION 2 SERVICING DIAGRAMS 1.TROUBLE SHOOTING 1-1.Debugging Function BUTTON FUNCTION DESCRIPTION EDID checking To recognize Toshiba projector, if the display is "ZOOM -" + (ON/OFF) not admitted by TSB, the image will disappear " " after 10 seconds. "ZOOM -" +...

[Page 17: 1-2.Trouble Shooting](#)

1-2.Trouble Shooting CAUSE CHECK POINT CHECK ITEM JUDGE Power is not on 1.Power supply is A. Power supply (NG) connected well. =>Power supply is NG 2.No light on (OK) "ON/Standby" LED =>Check next step B. Keypad PCB (NG) connection with =>KEYPAD PCB or +3.3V Cable1 (2-1) is NG...

[Page 18](#) Message 1.The display is Check the FW =>Update the FW display is wrong magnified to 190% version (See 1-1) (See 3) when turn on 2.The "190%" appear position is wrong LED on the LED SW LED lamp =>CAMERA HEAD ASSY Camera is not is NG lighted...

[Page 19: Connector Pin Assignment](#)

2.CONNECTOR PIN ASSIGNMENT 2-1.U001 (MAIN PCB-J5)<->E002 (CAMERA PCB-CJ1): It is included in E002: ARM ASSEMBLY U001 DEFINITION E002 DEFINITION SIGNAL FORMAT LIGHT LIGHT (ON) +3.3V / (OFF) 0V SSCL SCLK 0 V to +3.3V (Pulse) SSDA SDATA 0 V to +3.3V (Pulse)

200mV(Swing) 200mV(Swing) 200mV(Swing)

[Page 20](#) 3.U002 (KEY PAD PCB-KJ1)<->U003 (IR RECEIVER-RJ1) U001 DEFINITION U002 DEFINITION SIGNAL FORMAT POWER +3.3V 0 V to +3.3V (Pulse) 0 V to +3.3V (Pulse) 0 V to +3.3V (Pulse)

[Page 21](#) 3.BLOCK DIAGRAM U003: IR RECEIVER E002: CAMERA HEAD ASSY CABLE3: 5PIN(2-3) U002: KEYPAD PCB CABLE1(E001): ARM ASSEMBLY(2-1) CABLE2: 9PIN(2-2) U001: MAIN PCB FLICKER SW: RGB OUT: 50Hz/60Hz TO PROJECTOR RGB IN: POWER JACK: TO COMPUTER +15V IN...

[Page 22: Circuit Diagram](#)

4.CIRCUIT DIAGRAM 4-1.U001:MAIN PCB 4-2.E002: CAMERA HEAD ASSY...

[Page 23](#) 4-3. P0D1_ISP module...

[Page 24: Part List](#)

SECTION 3 PART LIST NOTICE The part number must be used when ordering parts in order to assist in processing, be sure to include the model number and description. Parts marked # are of chip type and mounted on original PC boards. However, when they are placed for servicing works, use discrete parts listed on the parts list.

[Page 25](#) 1-2 Soft Case Assembly Y004: REMOTE CONTROL Y013: RGB CABLE Y008-Y0012: POWER Y007: AC ADAPTER CARD Y003: USERS MANUAL-CD Y002: USERS MANUAL- HARD COPY Y001: SOFT CASE TLPC001 UNIT Y014: LED HOOD...

[Page 26: Spare Parts List](#)

2.SPARE PARTS LIST 2-1.Accessories LOCATION DESCRIPTION PARTS NO FIGURE Y001 SOFT CASE 23587762 Y002 USERS MANUAL-HARD COPY 23587763 Y003 USERS MANUAL-CD 23587764 Y004 REMOTE CONTROL 23587765 Y005 CARTON BOX 23587766...

[Page 27](#) Y006 INSERT 23587767 Y007 AC ADAPTER 23587768 Y008 POWER CORD-EU 23587769 Y009 POWER CORD-JP 23587770 Y010 POWER CORD-US 23587771 Y011 POWER CORD-CHINA 23587772...

[Page 28](#) Y012 POWER CORD-UK 23587773 Y013 RGB CABLE 23587774 Y014 LED HOOD 23587775...

[Page 29](#) 2-2.Main Unit Parts LOCATION DESCRIPTION PARTS NO FIGURE A001 TOP COVER ASSY 23587751 A002 BOTTOM COVER 23587752 A003 CAMERA HEAD COVER KIT 23587753...

[Page 30](#) A004 LABEL,SPEC 23587754 A005 FOOT,RUBBER 23587755 B001 SPRING+BEARING 23587756 E001 ARM ASSEMBLY 23587757 E002 CAMERA HEAD ASSY 23587758...

[Page 31](#) U001 MAIN PCB 23587759 U002 KEY PAD PCB 23587760 U003 IR RECEIVER 23587761...

[Page 32](#) 2-3 Label A004-1: LABEL, SPEC A004-2: LABEL, SPEC...

[Page 33](#) T O S H I B A C O R P O R A T I O N 1- -1, SHIBAURA 1- - CHOME, MINATO - - KU, TOKYO 105 -- 8001, JAPAN...