



Toshiba 14DLV75 Service Manual

14-inch lcd tv/dvd combination

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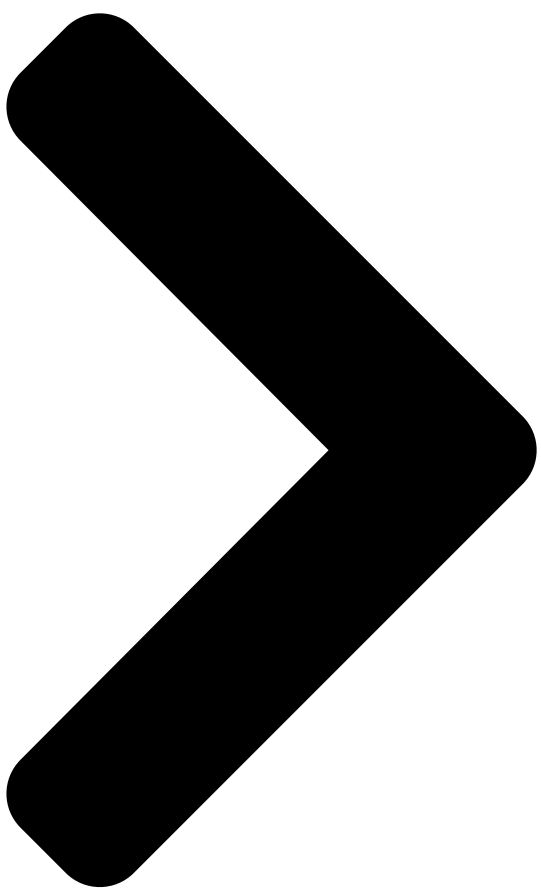
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SERVICE MANUAL

14-inch LCD TV/DVD

TOSHIBA

COMBINATION

The above models are classified as either green products (*1) or non-green products. The green products are indicated by underlined serial numbers. This Service Manual describes replacement parts for the green products. When repairing these green product(s), use the part(s) described in this manual and lead-free solder (*2).

Use this Service Manual in conjunction with the original Service Manual (810-200514) for 14DLV75.

For (*1) and (*2), see the next page.



FILE NO. 810-200514GR

14DLV75 TOSHIBA

DOCUMENT CREATED IN JAPAN, January, 2006GREEN

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Related Manuals for Toshiba 14DLV75

[TV DVD Combo Toshiba 14DLV75 Owner's Manual](#)

14-inch diagonal lcd tv/dvd combination (54 pages)

[TV DVD Combo Toshiba 14DVL75 Owner's Manual](#)

14-inch diagonal lcd tv/dvd combination (54 pages)

[TV DVD Combo Toshiba 19LV610U Owner's Manual](#)

19/22/26-inch class lcd tv/dvd combination (76 pages)

[TV DVD Combo Toshiba 15DLV77 Owner's Manual](#)

15-inch diagonal lcd tv/dvd combination (68 pages)

[TV DVD Combo Toshiba 19HLV87 Owner's Manual](#)

19-inch lcd tv/dvd combination (80 pages)

[TV DVD Combo TOSHIBA 24SLV411U Owner's Manual](#)

Integrated high definition lcd tv/dvd combination (337 pages)

[TV DVD Combo Toshiba 19SLV411U Owner's Manual](#)

Integrated high definition lcd tv/dvd combination (111 pages)

[TV DVD Combo Toshiba 19LV505 Service Manual](#)

19/22-inch diagonal lcd tv/dvd combination (156 pages)

[TV DVD Combo Toshiba 19LV610U-T Owner's Manual](#)

19-, 22-, 26-inch class lcd tv/dvd combination (80 pages)

[TV DVD Combo Toshiba 19LV610U-T Owner's Manual](#)

(80 pages)

[TV DVD Combo Toshiba 19DV733G Owner's Manual](#)

Lcd tv/dvd combination (92 pages)

[TV DVD Combo Toshiba 15DV703R Owner's Manual](#)

15, 19, 22, 26, 32-inch class lcd tv/dvd combination (61 pages)

[TV DVD Combo Toshiba 19DV615Y Owner's Manual](#)

Lcd tv/dvd combination (65 pages)

[TV DVD Combo Toshiba 19DV555DB Owner's Manual](#)

19/22-inch diagonal lcd tv/dvd combination (64 pages)

[TV DVD Combo toshiba 19DV550P Service Manual](#)

19-inch diagonal lcd tv/dvd combination (76 pages)

[TV DVD Combo Toshiba 19DV615DB Owner's Manual](#)

Lcd tv/dvd combination (60 pages)

Summary of Contents for Toshiba 14DLV75

[Page 1](#) When repairing these green product(s), use the part(s) described in this manual and lead-free solder (*2). Use this Service Manual in conjunction with the original Service Manual (810-200514) for 14DLV75. For (*1) and (*2), see the next page.

[Page 2](#) 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](#) ELECTRICAL ADJUSTMENTS 2-3: Confirmation of Fixed Value (Step No.) Please check if the fixed values of each the adjustment items are set correctly referring below. STEP NO. FUNCTION From Cause Change of LCD PANEL. BRI CEN (DVD) CON MAX (RF)

[Page 4](#) ELECTRICAL REPLACEMENT PARTS LIST MFR'S VERSION A MFR'S VERSION B PART NO. DESCRIPTION TSB P/N PART NO. DESCRIPTION TSB P/N CAUSE REF. NO. V2301 09EA114003 T140VN01 AE006840 09EA114004 T140VN01 AE008210 Change of LCD PANEL. All parts are not interchangeable between version.

[Page 5](#) MECHANICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No. Description AE006794 7A7010079B FRONT,CABI ASS'Y 101A AE006795 701WPJ1337 CABINET,FRONT 101B AE004501 713WPA0335 GLASS LED 101C AE004502 7235490047 BADGE,BRAND 101D AE000723 800WQ0A008 FELT SHEET AE006796 7A7020039A BACK CABI ASS'Y 102A AE004504 702WPJ0028 CABINET,BACK 102B...

[Page 6](#) MECHANICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No. Description AE005383 7220001115 SHEET,CSA WARNING AD301370 899EFBA002 WIRING-CLIP BZ710039 8995034000 CORD CLIP UL CO. AE005329 7250000590 SHEET PC 1 AE005330 7250000591 SHEET PC 2 AE005331 7250000592 SHEET PC 3 AE006818 752WSA0485 SHIELD FFC AE001852...

[Page 7](#) DVD DECK REPLACEMENT PARTS LIST Location No. TSB P/N Reference No. Description ! 600 AE008266 A5N011C650S DVD MECHA ASS'Y A5N011C650S AE006821 92AAA0015A ARM ROLLER ASS'Y 2 AE004553 92AAA0006A LINK,R ASS'Y AE004554 92AAA0007A CLAMPER ASS'Y AE004555 92AAA0009A MOUTH ASS'Y AE004556 92P100041A ARM, DISC GUIDE AE004557 92P100044A...

[Page 8](#) ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No. Description RESISTORS ! R1050 AE003270 R3X28B2R7J R,METAL OXIDE 2.7 OHM 3W ! R1053 AE000037 R3X28B3R9J R,METAL B 3.9 OHM 3W CAPACITORS ! C105 AD301434 E02LU4101M 100 UF 35V ! C119 AD301434 E02LU4101M 100 UF 35V...

[Page 9](#) ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No. Description TRANSISTORS Q101 BZ510109 TCAA3875SY TRANSISTOR,SILICON KTC3875S_Y_RTK Q105 BZ510109 TCAA3875SY TRANSISTOR,SILICON KTC3875S_Y_RTK Q601 BZ510109 TCAA3875SY TRANSISTOR,SILICON KTC3875S_Y_RTK Q602 BZ510109 TCAA3875SY TRANSISTOR,SILICON KTC3875S_Y_RTK Q603 BZ510109 TCAA3875SY TRANSISTOR,SILICON KTC3875S_Y_RTK Q604 BZ510109 TCAA3875SY TRANSISTOR,SILICON KTC3875S_Y_RTK Q701...

[Page 10](#) ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No. Description COILS & TRANSFORMERS L1003 BZ310181 02A6B2E0A1 CORE,FERRITE HF70T22*10*14 L1004 AE004595 021404221M COIL 21A 220 UH L2201 AD301539 02AHB0A0A4 CORE,FERRITE W5T_20X10X10A L3001 AE004593 021404101L COIL 1A 100 UH L3002 AE004593 021404101L COIL 1A 100 UH L3003...

[Page 11](#) ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No. Description MISCELLANEOUS B4009 BZ310186 024HC31022 CORE,BEADS FCM2012H-102T04 B4010 BZ310186 024HC31022 CORE,BEADS FCM2012H-102T04 B8503 BZ310186 024HC31022 CORE,BEADS FCM2012H-102T04 BL001 BZ310014 023C00022A COIL,BALUN HPN-01 BT001 AE005640 141R004016 BATTERY,MANGAN GR03X-SP2 BT002 AE005640 141R004016 BATTERY,MANGAN GR03X-SP2 CD101...

[Page 12](#) TOSHIBA CORPORATION 1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105-8001, JAPAN...

[Page 13](#) FILE NO. 810-200514 SERVICE MANUAL 14-inch LCD TV/DVD COMBINATION 14DLV75 DOCUMENT CREATED IN JAPAN, February, 2005...

[Page 14: Important Safeguards](#)

Function setup Others ©2005 Toshiba Corporation Before operating the unit, please read this manual thoroughly. ColorStream ® is registered trademark of Toshiba America Consumer Products, L.L.C. *Screen size is approximate. Printed in Thailand Introduction IMPORTANT SAFEGUARDS IMPORTANT SAFEGUARDS The lightning flash with arrowhead symbol, within an

equilateral 1.

[Page 15: Precautions](#)

Introduction IMPORTANT SAFEGUARDS (continued) 13. LIGHTNING 19. REPLACEMENT PARTS To protect your unit from a lightning storm, or when it is left unattended and unused for long periods of time, When replacement parts are required, be sure the service technician uses replacement parts specified by unplug it from the wall outlet and disconnect the antenna or cable system.

[Page 16: Table Of Contents](#)

Because of problems and errors that can occur during the creation of DVD software and/or the manufacture of DVD discs, Toshiba cannot guarantee that the DVD player contained in the unit will play every feature of every DVD bearing the DVD logo. As one of the creators of DVD...

[Page 17: Identification Of Controls](#)

Introduction Identification of controls (continued) Inserting batteries Open the battery compartment Install two "R03/AAA" batteries Replace the compartment cover in the direction of the (supplied), paying attention to cover. Remote control the polarity indicated in the arrow. battery compartment. The instructions in this manual describe the function on the remote control. See the page in for details.

[Page 18: Connecting To Optional Equipment](#)

(component video). Connecting your TV/DVD to a component Note: Picture might be muted for some VCR playback. This is not a malfunction of this unit. video compatible DVD player, such as a Toshiba DVD player with ColorStream ® can greatly enhance picture quality and performance.

[Page 19: Power Source](#)

Connections Basic setup Power source Setting the language POWER This TV/DVD can display the on screen language in English, Spanish or French in the TV mode. Select the language you prefer first, then proceed with the other menu options. ENTER / / / Power connection MENU...

[Page 20: Closed Captions](#)

TV operation TV operation (continued) Closed captions SLEEP RECALL WHAT IS CLOSED CAPTIONING? This television has the capability to decode and display closed captioned CH RTN television programs. Closed captioning will display text on the screen for MUTE hearing impaired viewers or it will translate and display text in another VOL +/-...

[Page 21: Picture Control Adjustment](#)

TV operation Picture control adjustment/ Selecting the color temperature Adjusting the picture preference Picture controls are factory preset but you can adjust them individually as follows: CANCEL And also you can select four picture modes—Standard, Sports, Movie, and ENTER ENTER Memory—as described in the following table: / / / / /...

[Page 22: Advanced Playback](#)

Basic playback Playing a disc (continued) POWER TV/DVD To obtain a higher quality picture EJECT PLAY Occasionally, some picture noise may appear on the TV screen while playing a PAUSE DVD video disc because the high resolution pictures on these discs include a lot of information.

[Page 23: Program Playback](#)

Advanced playback Changing angles/Title selection/DVD menu Program playback/Random playback 0–9 You can arrange the playback order of tracks or files on the disc. TOP MENU DVD MENU And also the unit selects tracks or files at random and playback them. These feature works for Audio CD, Video CD and MP3/WMA/JPEG CD.

[Page 24: Mp3/Wma/Jpeg Cd Operation](#)

Pre-recorded DVDs are automatically set to these standards. There are many different types of recordable disc formats STOP (including CD-R containing MP3/WMA files). Given the fact that technology in this area is still maturing, Toshiba cannot guarantee that all genre of recordable discs will produce optimal playback quality. The technical criteria set out in this owner's manual

are meant as a guide only.

[Page 25: Temporary Disabling Of Rating Level By Dvd Disc](#)

Function setup Setting details Setting details To change the parental level Sound Language Picture Language Picture Sound Parental Other Language Picture Sound Parental Other Language Picture Sound Parental Other 1) Press to select "Password". Menu English English Tv Screen 2) Press Number buttons (0-9) to enter the password Subtitle Automatic Francais...

[Page 26: Troubleshooting](#)

Others Troubleshooting Use the following check list for troubleshooting when you have problems with your unit. Consult your local dealer or service outlet if problems persist. Be sure all connections are properly made when using with other units. SYMPTOMS POSSIBLE SOLUTIONS PAGE SYMPTOMS POSSIBLE SOLUTIONS...

[Page 27: Limited United States Warranty](#)

"Troubleshooting," you find that service is needed: STATE IN THE U.S.A. SOME STATES OF THE Toshiba America Consumer Products, L.L.C. ("TACP") makes the following limited warranties to original U.S.A. DO NOT ALLOW LIMITATIONS ON HOW consumers in the United States. THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER...

[Page 28](#) CAUTION THIS LCD COLOR TELEVISION EMPLOYS A LASER SYSTEM. TO ENSURE PROPER USE OF THIS PRODUCT, PLEASE READ THIS SERVICE MANUAL CARE- FULLY AND RETAIN FOR FUTURE REFERENCE. SHOULD THE UNIT REQUIRE MAINTENANCE, CONTACT AN AUTHORIZED SERVICE LOCATION-SEE SERVICE PROCEDURE. USE OF CONTROLS, ADJUSTMENTS OR THE PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

[Page 29](#) IMPORTANT SERVICE SAFETY INFORMATION Safety precautions to be followed during servicing: Parts marked with an are critical parts for safety. Replace only with the one described in the parts list. Before returning the DVD product to the customer, make the appropriate leakage current check or resistance measurements to ensure that exposed parts are properly insulated from the supply circuit.

[Page 30](#) IMPORTANT SAFEGUARDS READ INSTRUCTIONS All the safety and operating instructions should be read before the unit is operated. RETAIN INSTRUCTIONS The safety and operating instructions should be retained for future reference. HEED WARNINGS All warnings on the unit and in the operating instructions should be adhered to. FOLLOW INSTRUCTIONS All operating and use instructions should be followed.

[Page 31](#) IMPORTANT SAFEGUARDS (CONTINUED) OUTDOOR ANTENNA GROUNDING If an outside antenna or cable system is connected to the unit, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

[Page 32](#) EXAMPLE OF ANTENNA GROUNDING AS PER THE NATIONAL ELECTRICAL CODE ANTENNA LEAD IN WIRE GROUND CLAMP ANTENNA DISCHARGE UNIT (NEC SECTION 810-20) ELECTRIC SERVICE EQUIPMENT GROUNDING CONDUCTORS (NEC SECTION 810-21) GROUND CLAMPS POWER SERVICE GROUNDING NEC-NATIONAL ELECTRICAL CODE ELECTRODE SYSTEM (NEC ART 250, PART H) S2898A A1-5...

[Page 33](#) WHEN REPLACING DVD DECK [When removing the DVD Deck] Before removing Pick Up PCB and DVD PCB connector, short circuit the position as shown in Fig. 1 using a soldering iron. If you remove the DVD Deck with no soldering, the Laser may be damaged. [When installing the DVD Deck] Remove all the soldering on the short circuit position after the connection of Pick Up PCB and DVD PCB connector.

[Page 34](#) DISC REMOVAL METHOD AT NO POWER SUPPLY Remove the Back Cabinet. (Refer to item 1 of the DISASSEMBLY INSTRUCTIONS.) Slide the Rack Loading toward the arrow direction by hand to release the lock. (Refer to Fig. 1) Take out the Disc from the DVD Deck. Be careful not to scratch on the Disc. DVD Deck Rack Loading Fig.

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PREPARATION OF SERVICINGA1-1 IMPORTANT SERVICE SAFETY INFORMATION
.....A1-2 IMPORTANT SAFEGUARDS A1-3~A1-5 WHEN REPLACING DVD DECK
.....A1-6 DISC REMOVAL METHOD AT NO POWER SUPPLY A1-7 PARENTAL
CONTROL-RATING LEVEL A1-7 TRAY LOCK

[Page 36](#) GENERAL SPECIFICATIONS LCD Size / Visual Size 14.0 inch / 356.4mmV System LCD
Type Color TFT LCD Number of Pixels 640(H) x 480(V) View Range Left/Right 85/85 degree
Up/Down 85/85 degree Color System NTSC Speaker 2 Speaker Position Front Size 1.5 x 2.7 inch
Impedance 16 ohm...

[Page 37](#) GENERAL SPECIFICATIONS Temperature Operation +5oC ~ +40oC Storage -20oC ~
+60oC Operating Humidity Less than 80% RH On Screen Menu(TV) Display Menu Type Icon TV
Setup Picture Audio Picture Preference Color Temperature Auto Dimmer CH Tuning TV/CABLE
Add/Delete Auto CH Memory V-Chip Language Clock Set...

[Page 38](#) GENERAL SPECIFICATIONS G-10 On Screen Menu (DVD) Display Menu Type
Character Language Menu Subtitle Audio Picture TV Screen Size(4:3) OSD Display On/Off JPEG
Interval Select Files Sound DRC (Dynamic Range Control) dts Decode Output(5.1ch/ 2ch)
Surround On/Off Center On/Off Sub Woofer On/Off Parental Password Lock/ Un Lock Rating
Level...

[Page 39](#) GENERAL SPECIFICATIONS G-13 Remote Unit RC-LB Control Glow in Dark Remocon
Remocon Format ORION Format Custom Code 71-8E h Power Source Voltage(D.C) UM size x pcs
UM-4 x 2 pcs Total Keys 47 Key Keys Power Play Stop Search+ Search- Skip+ Skip- Slow+...

[Page 40](#) GENERAL SPECIFICATIONS G-14 Features CABLE (TV) Auto Shut Off Auto CH Memory
V-Chip Type USA Type Auto Search PC Monitor Input S-Video Input Game Position FM
Transmitter Surround Stable Sound Energy Star Closed Caption Comb Filter Power On Memory
Available Scan Rates (Component) 480i/480p Freeze frame...

[Page 41](#) PS 94V0 DECABROM Rear PS 94V0 DECABROM Jack Panel Non-Halogen Demand
Eyelet Demand G-21 Environment Environmental standard requirement (by buyer) Green
procurement of TOSHIBA Pb-free Phase3 (Phase3A) G-22 AC Power Adapter Provided
Accessories Power Requirement 120V 60Hz Power Consumption at AC...

[Page 42: Disassembly Instructions](#)

DISASSEMBLY INSTRUCTIONS 1. REMOVAL OF MECHANICAL PARTS 1-3: BACK ANGLE (Refer to
Fig. 1-3) Remove the 3 screws 1. AND P.C. BOARDS Remove the screw 2. 1-1: HINGE ASS'Y
(Refer to Fig. 1-1) Remove the 2 screws 1. Remove the 2 screws 1. Remove the Jack Plate and
Jack Shield in the direction of Remove the Hinge Cover in the direction of arrow (A).

[Page 43](#) DISASSEMBLY INSTRUCTIONS NOTE PCB Angle Before your operation, please read
"PREPARATION OF MPEG Shield SERVICING". Use the Lead Free solder. Manual soldering
conditions CP801 • Soldering temperature: 320 ± 20°C LCD PCB • Soldering time: Within 3
seconds • Soldering combination: Sn-3.0Ag-0.5Cu When Soldering/Removing of solder, use the
drawing equipment over the Pick Up Unit to keep the Flux smoke CP104...

[Page 44](#) DISASSEMBLY INSTRUCTIONS 1-10: REMOCON PCB/BACK LIGHT PCB Jack Plate (Refer
to Fig. 1-10) Remove the 2 screws 1. Remove the Remocon PCB in the direction of arrow (A).
Side Jack PCB Jack Shield Remove the 2 screws 2. Remove the Back Light PCB in the direction of
arrow (B). Remocon PCB Front Cabinet Back Light PCB...

[Page 45: Removal Of Dvd Deck Parts](#)

DISASSEMBLY INSTRUCTIONS 2-2: TRAVERSE UNIT ROD/TRAVERSE UNIT HOLDER/ 2. REMOVAL
OF DVD DECK PARTS CD DECK/INSULATOR (Refer to Fig. 2-2) 2-1: LOADING MOTOR
ASS'Y/START SW PCB ASS'Y/ Remove the screw 1. END SW PCB ASS'Y (Refer to Fig. 2-1-A)
Remove the Traverse Unit Rod. Remove the 3 screws 1.

[Page 46](#) DISASSEMBLY INSTRUCTIONS 2-4: DISC L LEVER/DISC STOPPER/LOCKER STOPPER/
2-6: LINK R ASS'Y/LINK L/LINK MID/LINK SPRING ROLLER GEAR (Refer to Fig. 2-4-A) (Refer to Fig.
2-6) Remove the screw 1. Remove the Disc L Lever and Disc L Lever
Spring. Remove the Link Spring.

[Page 47](#) DISASSEMBLY INSTRUCTIONS 2-8: CLAMPER ASS'Y/DISC GUIDE ARM/DISC R LEVER (Refer to Fig. 2-8-A) Unlock the support 1 and remove the Clamper Ass'y. Unlock the support 2 and remove the Disc Guide Arm. Unlock the support 3 and remove the Disc R Lever. Clamper Ass'y Disc R Lever Disc Guide Arm...

[Page 48: Removal And Installation Of Flat Package Ic](#)

DISASSEMBLY INSTRUCTIONS 3. REMOVAL AND INSTALLATION OF FLAT 3. When IC starts moving back and forth easily after desoldering completely, pickup the corner of the IC using PACKAGE IC a tweezers and remove the IC by moving with the IC REMOVAL desoldering machine.

[Page 49](#) DISASSEMBLY INSTRUCTIONS INSTALLATION 4. When bridge-soldering between terminals and/or the soldering amount are not enough, resolder using a Thin- 1. Take care of the polarity of new IC and then install the tip Soldering Iron. (Refer to Fig. 3-8.) new IC fitting on the printed circuit pattern. Then solder each lead on the diagonal positions of IC temporarily.

[Page 50: 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 to the SERVICE MODE function, press and hold both buttons simultaneously on the main unit and on the remote control for more than the standard time in the appropriate condition.

[Page 51: Servicing Fixtures And Tools](#)

SERVICING FIXTURES AND TOOLS Ref. No. Part No. Parts Name Remarks JG176 Up-Date Disc JG176 Up-Date Disc Up-Date of the Firmware APJG176052 RE-WRITE FOR DVD FIRMWARE Turn on the power, and set the DVD mode. Confirm that the "No Disc" will be appeared on the screen. Press both VOL.

[Page 52: When Replacing Eeprom \(Memory\) Ic](#)

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. NOTE: No need to set data for between INI 10 and INI 4F due to the adjustment value. Table 1 Turn on the POWER, and set to the TV mode.

[Page 53: Electrical Adjustments](#)

ELECTRICAL ADJUSTMENTS BEFORE MAKING ELECTRICAL FUNCTION FUNCTION ADJUSTMENTS DRI1 W RCUT M DRI2 W Read and perform these adjustments when repairing the GCUT M MD6 W circuits or replacing electrical parts or PCB assemblies. BCUT M DTHON W DRI1 M DRREF W CAUTION DRI2 M...

[Page 54](#) ELECTRICAL ADJUSTMENTS 2-3: Confirmation of Fixed Value (Step No.) 2-2: WHITE BALANCE CS Please check if the fixed values of each the adjustment NOTE: Adjust after performing CUT OFF adjustment. items are set correctly referring below. Place the set in Aging Test for more than 5 minutes. Receive the gray scale pattern from the Pattern Generator.

[Page 55](#) ELECTRICAL ADJUSTMENTS 3. ELECTRICAL ADJUSTMENT PARTS LOCATION GUIDE (WIRING CONNECTION) CD7001 BACK LIGHT LCD PANEL CD2601 DVD PCB CP2301 CP2302 CD501 CD701 CP2601 LCD PCB DVD DECK CD103 CD102 CD807 CD804 CP101 SIDE JACK PCB CP801 CP701 CP102 CP103 CP104 J1001 CP1001 CP3805...

[Page 56](#) MECHANICAL EXPLODED VIEW 102C 102A 102F 102I 102J 102G 102H 102D 102L 102N 102B 102E 102K 102M 102Q 102P 102O 201 201 PCBDA0 (REMOCON PCB ASS'Y) 101B 101A 101D 101D 101C 101D PCB350 (BACK LIGHT PCB ASS'Y) I1-1...

[Page 57](#) MECHANICAL EXPLODED VIEW PCBD90 (SIDE JACK PCB ASS'Y) PCB130 (DVD PCB ASS'Y) PCBD20 (AV PCB ASS'Y) PCB340 (LCD PCB ASS'Y) PCB270 (OPERATION 1 PCB ASS'Y) V2301 I1-2...

[Page 58](#) MECHANICAL EXPLODED VIEW (PACKING DIAGRAM) CD503 TM101 BL001 AD001 BT001, BT002 132, 133, 134, 135, 151 I1-3...

[Page 59: Dvd](#)

DVD DECK EXPLODED VIEW (TOP VIEW) NOTE: Applying positions AA for the grease are CLASS MARK displayed for this section. GREASE Check if the correct grease is applied for each position. I2-1...

[Page 60](#) DVD DECK EXPLODED VIEW (BOTTOM VIEW) PCB580 (START SW PCB ASS'Y) PCB590 M2301 (END SW PCB ASS'Y) NOTE: Applying positions AA for the grease are CLASS MARK displayed for this section. GREASE Check if the correct grease is applied for each position.

[Page 61](#) MECHANICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No.
Description AE006794 7A7010079B FRONT CABI ASS'Y 101A AE006795 701WPJ1337 CABINET,FRONT 101B AE004501 713WPA0335 GLASS,LED 101C AE004502 7235490047 BADGE,BRAND 101D AE000723 800WQ0A008 FELT SHEET AE006796 7A7020039A BACK CABI ASS'Y 102A AE004504 702WPJ0028 CABINET,BACK 102B...

[Page 62](#) MECHANICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No.
Description AE005383 7220001115 SHEET,CSA WARNING AD301370 899EFBA002 WIRING-CLIP BZ710039 8995034000 CORD CLIP UL CO. AE005329 7250000590 SHEET,PC 1 AE005330 7250000591 SHEET,PC 2 AE005331 7250000592 SHEET,PC 3 AE006818 752WSA0485 SHIELD,FFC AE001852 8965TS1010 CUSHION 65TS10-10 10x20x25...

[Page 63](#) DVD DECK REPLACEMENT PARTS LIST Location No. TSB P/N Reference No.
Description AE006820 A5N005C650S DVD MECHA ASS'Y A5N005C650S AE006821 92AAA0015A ARM ROLLER ASS'Y 2 AE004553 92AAA0006A LINK,R ASS'Y AE004554 92AAA0007A CLAMPER ASS'Y AE004555 92AAA0009A MOUTH ASS'Y AE004556 92P100041A ARM, DISC GUIDE AE004557 92P100044A GEAR, MID RACK...

[Page 64](#) ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No.
Description RESISTORS R001 AE001781 R803R9101J 100 OHM 1/16W R002 AE001781 R803R9101J 100 OHM 1/16W R101 AE001784 R803R9103J 10K OHM 1/16W R103 AE001784 R803R9103J 10K OHM 1/16W R104 BZ210182 R002T4103J 10K OHM 1/4W R105 AD302345 R803R9472J...

[Page 65](#) ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No.
Description RESISTORS R718 AE001797 R803R9473J 47K OHM 1/16W R719 AE001797 R803R9473J 47K OHM 1/16W R720 BZ210164 R002T4104J 100K OHM 1/4W R721 AE001784 R803R9103J 10K OHM 1/16W R722 AE001784 R803R9103J 10K OHM 1/16W R723 AE001796 R803R9471J...

[Page 66](#) ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No.
Description RESISTORS R1008 AD300651 R002T4272J 2.7K OHM 1/4W R1011 AE002871 R803R9224J 220K OHM 1/16W R1012 AE001783 R803R9102J OHM 1/16W R1013 AE002530 R803R9124J 120K OHM 1/16W R1014 AE001781 R803R9101J 100 OHM 1/16W R1018 AE001799 R803R9562J...

[Page 67](#) ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No.
Description RESISTORS R2334 AE001781 R803R9101J 100 OHM 1/16W R2335 AE002907 R803R9562F 5.6K OHM 1/16W R2337 AE001782 R803R9102F OHM 1/16W R2338 AE001782 R803R9102F OHM 1/16W R2341 AE001788 R803R9123J 12K OHM 1/16W R2346 AE002907 R803R9562F...

[Page 68](#) ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No.
Description RESISTORS R3803 AE005097 R861R44R7X 0.047 OHM 1/4W R3804 AE005097 R861R44R7X 0.047 OHM 1/4W R3807 AE005088 R803R9182F 1.8K OHM 1/16W R3808 AE005093 R803R9303F 30K OHM 1/16W R3809 AE000845 R803R9103F 10K OHM 1/16W R3811 AE001784 R803R9103J...

[Page 69](#) ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No.
Description RESISTORS R7012 AE005083 R803R9104F 100K OHM 1/16W R7013 AE000851 R803R9203J 20K OHM 1/16W R7014 AE005084 R803R9113F 11K OHM 1/16W R7015 AE005091 R803R9244F 240K OHM 1/16W R7016 AE001783 R803R9102J OHM 1/16W R7018 AE005085 R803R9114F...

[Page 70](#) ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No.
Description RESISTORS R7090 79091325 R801R7474J 470K OHM 1/10W R7092 AE001783

R803R9102J OHM 1/16W R7093 AE001283 R803R9470J OHM 1/16W R8512 AE001793
R803R92R2J 2.2 OHM 1/16W R8513 AE001793 R803R92R2J 2.2 OHM 1/16W R8529 AD302345
R803R9472J...

[Page 71](#) ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No.
Description CAPACITORS C645 79091382 CS0PCH440C PF 50V CH C646 79091061 CS0PCH4G1J
PF 50V CH C647 AE001732 CS0PCH4H1J PF 50V CH C648 AE001725 CS0PB0413K 0.001 UF 50V
B C649 AE002124 CS0PB0315K 0.1 UF 25V B C650 AE002124...

[Page 72](#) ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No.
Description CAPACITORS C766 AE002831 CS0PCH4Q2J 470 PF 50V CH C767 AE001544
E50HU3100M UF 25 V C790 AE001727 CS0PB04H3K 0.0022UF 50V B C791 AE001727
CS0PB04H3K 0.0022UF 50V B C801 AE006851 E631MQ471D 470 UF 4V C802 AE001737...

[Page 73](#) ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No.
Description CAPACITORS C886 AE001726 CS0PB0414K 0.01 UF 50V B C887 AE001726
CS0PB0414K 0.01 UF 50V B C888 AE001726 CS0PB0414K 0.01 UF 50V B C889 AE001726
CS0PB0414K 0.01 UF 50V B C890 AE001726 CS0PB0414K...

[Page 74](#) ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No.
Description CAPACITORS C1034 BZ110263 E50HU2220M UF 16 V C1036 AD301762
E50HU52R2M 2.2 UF 50V C1037 BZ110263 E50HU2220M UF 16 V C1038 AE001729
CS0PCH412J 100 PF 50V CH C1039 AE001729 CS0PCH412J 100 PF 50V CH C1040 AE002492...

[Page 75](#) ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No.
Description CAPACITORS C2611 AE001275 CS0PF0415Z 0.1 UF 50V F C2612 AE002824
CS0PB04H4K 0.022 UF 50V B C2613 AE001733 CS0PCH4H2J 220 PF 50V CH C2614 AE002124
CS0PB0315K 0.1 UF 25V B C2615 AE001275 CS0PF0415Z...

[Page 76](#) ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No.
Description CAPACITORS C3809 BZ110083 E02LU3101M 100 UF 25V C3810 BZ110041
E02LT3471M 470 UF 25V C3811 AE001725 CS0PB0413K 0.001 UF 50V B C3812 BZ110041
E02LT3471M 470 UF 25V C3813 AE005071 E61FT2681D 680 UF 16V C3814 AE000336...

[Page 77](#) ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No.
Description CAPACITORS C4064 AE001275 CS0PF0415Z 0.1 UF 50V F C4067 BZ210177
E02LU2470M UF 16V C4068 AE003896 E5EZX2470M UF 16V C4069 AE003896 E5EZX2470M UF
16V C4070 AE003896 E5EZX2470M UF 16V C4071 AE003896 E5EZX2470M UF 16V...

[Page 78](#) ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No.
Description DIODES D103 BZ410086 DD7R0S3550 DIODE,SILICON 1SS355 TE-17 D104
BZ410006 D1VT001330 DIODE,SILICON 1SS133T-77 D701 BZ410006 D1VT001330
DIODE,SILICON 1SS133T-77 D1001 BZ410006 D1VT001330 DIODE,SILICON 1SS133T-77 D1002
BZ410010 D28T21DQ9 DIODE,SCHOTTKY 21DQ09N-TA2B1 D2202 AD301537 0021E5Q210
LTL-1CHGE-002A D2601...

[Page 79](#) ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No.
Description TRANSISTORS Q603 BZ510109 TCAA3875SY TRANSISTOR,SILICON KTC3875S_Y_RTK
Q604 BZ510109 TCAA3875SY TRANSISTOR,SILICON KTC3875S_Y_RTK Q701 BZ510109
TCAA3875SY TRANSISTOR,SILICON KTC3875S_Y_RTK Q702 BZ510109 TCAA3875SY
TRANSISTOR,SILICON KTC3875S_Y_RTK Q703 BZ510021 TNYJC05001 COMPOUND TRANSISTOR
DTC124EKAT146 Q704 BZ510045 TNYJD05001 COMPOUND TRANSISTOR DTC144EKAT146...

[Page 80](#) ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No.
Description COILS & TRANSFORMERS L1003 BZ310181 02A6B2E0A1 CORE,FERRITE
HF70T22*10*14 L1004 AE004595 021404221M COIL 21A 220 UH L2201 AD301539
02AHB0A0A4 CORE,FERRITE W5T_20X10X10A L3001 AE004593 021404101L COIL 1A 100 UH
L3002 AE004593 021404101L COIL 1A 100 UH L3003...

[Page 81](#) ELECTRICAL REPLACEMENT PARTS LIST Location No. TSB P/N Reference No.
Description MISCELLANEOUS B4005 BZ310186 024HC31022 CORE,BEADS FCM2012H-102T04
B4006 BZ310186 024HC31022 CORE,BEADS FCM2012H-102T04 B4007 BZ310186 024HC31022
CORE,BEADS FCM2012H-102T04 B4008 BZ310186 024HC31022 CORE,BEADS
FCM2012H-102T04 B4009 BZ310186 024HC31022 CORE,BEADS FCM2012H-102T04 B4010

BZ310186 024HC31022 CORE,BEADS FCM2012H-102T04 B8503...

[Page 82](#) 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 J3-19...

[Page 83](#) TOSHIBA CORPORATION 1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105-8001, JAPAN...

[Page 84](#) FILE NO. 810-200514 CIRCUIT DIAGRAMS SERVICE MANUAL 14-inch LCD TV/DVD COMBINATION 14DLV75 DOCUMENT CREATED IN JAPAN, February, 2005...

[Page 85](#) DVD BLOCK DIAGRAM 8M FLASH 64M SDRAM IC4007 IC4005 SST39VF800A-70-4C-EKE EDS6416AHTA-6B-E TV BLOCK SDA0~SDA11 HD0~HD15 SDD0~SDD15 HA0~HA20 MECHA A, B, C, D, E, F VR-DVD/CD, VRSEL, VREF LD-DVD/CD, PD Pick RFA_SDEN, DATA, SCLK TR+/-, FO+/- READ CHANNEL AAF_CE, FE, TE, PI DISC_IN/DISC_END SW IC2601 Open/...

[Page 86](#) TV BLOCK DIAGRAM SP1001 AUDIO VIDEO S0407N04-A SOUND AMP SOUND 1.5W + 1.5W IC905 IC1002 TUNER 2 IN 1 DECODER IC903 IC906 LA4915-E TU001 IC901 IC904 BOOST NJM2534V 115-V-L035AR AN5832SA MM1501XNRE TONE CONTROL IC1004 TUNER IC1001 NJM4580V Audio Out VIDEO AN5891SA-E1V HEAD PHONE JACK J1001...

[Page 87: Power](#)

POWER BLOCK DIAGRAM AV BLOCK DVD BLOCK Q3007 Q3001 F3001 ADAPTER+12V P.CON+7V_D UNREG+12V 5V REG IC3003 P.CON+5V_D KIA78D05F DVD POWER P.CON+A5V_D 3.3V REG Q3008 P.CON+3.3V_D IC3005 KIA78D33F P.CON+A3.3V_D 1.8V REG IC3002 P.CON+1.8V_D PQ070XZ01ZP 2CH SW REG CONTROLLER IC3001 1.8V REG BA9743AFV IC3004 P.CON+A1.8V_D...

[Page 88: Printed Circuit Boards](#)

PRINTED CIRCUIT BOARDS LCD (BOTTOM SIDE) LCD (TOP SIDE) C810 C821 C879 C892 C893 L608 C820 Q602 CED006B C660 C659 L609 Q603 Q604 R810 C872 R625 R811 W807 R809 R826 R829 NR801 NR803 NR805 L603 C658 R806 NR802 NR804 NR806 R861 R804 C637...

[Page 89: Av/Remocon/Side Jack](#)

PRINTED CIRCUIT BAORDS AV/REMOCON/SIDE JACK (INSERTED PARTS) SOLDER SIDE CD2201 OS2201 J1001 W834 W835 W074 D2202 CED003B CED002B J792 J790 CED004B CD705 J704 J708 J701 J702 B3802 J791 D3806 R3818 R3817 J707 J705 J706 AS MARKED. - REPLACE W115 D3807 RISK OF FIRE W088...

[Page 90](#) PRINTED CIRCUIT BAORDS AV/REMOCON/SIDE JACK (CHIP MOUNTED PARTS) SOLDER SIDE R765 Q701 R704 Q703 Q702 IC701 Q707 Q704 R721 IC904 Q710 Q708 IC903 Q1008 R775 R776 R1048 IC103 Q1006 R770 Q1001 IC704 R144 R135 Q105 R134 R772 R773 W910 R901 IC703 IC901 IC906...

[Page 91: Dvd](#)

PRINTED CIRCUIT BOARDS DVD (TOP SIDE) R2341 IC4005 C2316 R3020 C3005 C4047 C4046 B4006 C4037 C4095 IC4002 C4017 C4016 R4014 C2301 IC2304 C4014 R2330 R4024 C4085 B2604 D3002 D3001 IC4007 Q2605 IC3002 Q2606 Q2604 C2603 L3004 R4046 R4041 C2604 Q2603 C2605 R4011 C4039...

[Page 92](#) PRINTED CIRCUIT BOARDS OPERATION BACK LIGHT (TOP SIDE) BACK LIGHT (BOTTOM SIDE) SOLDER SIDE SW2208 SW2202 CP7004 CP7005 R2255 R2254 R2251 R2202 R2204 R2206 R2253 R2252 CED005A R7082 C7014 R7021 C7016 R7022 R7019 C7017 R7011 R7092 C7008 IC7002 R7006 R7016 R7008 C7005 R7023...

[Page 93: Tuner/Stereo](#)

TUNER/STEREO SCHEMATIC DIAGRAM (AV PCB) FROM/TO MICON L901 P.CON+5V_A 100uH 0305 R CH SW IC IC903 MM1501XNRE R904 C941 Vin1 1.2K AV_SW1 AV_SW2 V.OUT TV/DVD C942 Vin2 C916 L CH SW IC FROM/TO SOUND AMP IC904 MM1501XNRE R903 C943 TV/DVD

SW_A_OUT_L Vin1 TU001...

[Page 94](#) MICON SCHEMATIC DIAGRAM (AV PCB) FROM/TO IN/OUT IIC_OFF START_SW DVD_RESET DVD_POWER CVBS1 CVBS2/Y SW_U SW_V S_IN_C AV_SW1 S_SW AV_SW2 X101 CSTLS16M0X53-A0 FROM/TO DECODER CP103 (CP806) 00_6232_007_006_800+ C120 S_IN_C 100P CH CD103 R140 LCDON OSD_Y LCDON 2H072403 C103 C121 SW_U 39P CH 100P CH C109 R144...

[Page 95: Sound Amp](#)

SOUND AMP SCHEMATIC DIAGRAM (AV PCB) L1003 R1053 3.9 3W IC1002 LA4915-E SOUND AMP HF70T22*10*14 8.21 POWER GND OUT1- CP1001 A2502WV2-4P C1002 8.21 R1026 16 OHM OUT1+ SP OUT R+ 6.8K SP GND C1003 IN-VREF SP GND SP OUT L+ 16 OHM PRE VCC C1061...

[Page 96: In/Out](#)

IN/OUT SCHEMATIC DIAGRAM (AV PCB) AV2_V_IN R709 100 1/2W FROM/TO SIDE JACK/REMOCON R702 C716 W832 S_IN_Y S_VIDEO BUFFER CP705 (CD705) 8.2K J706 Q702 FROM/TO MICON MDC-070V-A_LF A2001WV2-8P KTC3875S_Y_RTK BUFFER AV2_V_IN Q701 CVBS1 KTC3875S_Y_RTK AV2_A_IN_L R701 C717 CVBS2/Y AV2_A_IN_R SW_U 8.2K AV2_A_IN_L W911 SW_V...

[Page 97: Power](#)

POWER SCHEMATIC DIAGRAM FROM/TO SOUND AMP (AV PCB) SOUND+B AT+5V P.CON+5V P.CON+9V SOUND_GND FROM/TO MICON FROM/TO MICON LCDON FROM/TO INVERTER POWER_ON_H AT+5V C3826 CP3803 (CD7001) P.CON+5V A2001WV2-8P 0.22 B RESET LCD ON/OFF C3827 I-PWM 0.22 B GND(B.L) 17.8 33.7 GND(B.L) V.ADJ GND(B.L) CVCC COSC...

[Page 98](#) SIDE JACK/REMOCON SCHEMATIC DIAGRAM (SIDE JACK PCB) J1001 HSJ0913-01-140 (REMOCON PCB) W835 W834 OS2201 RPM7138-SH8 Vout L713 HF70T22*10*14 L2201 W5T_20X10X10A FROM/TO IN/OUT YELLOW CD705 (CP705) J790 C3281602 MTJ-032-05A-30-FE HEAD PHONE R+ HEAD PHONE L+ WHITE J791 SP MUTE MTJ-032-05A-32-FE FROM/TO MICON AV2_A_IN_R CD2201 (CP2201)

[Page 99: Decoder](#)

DECODER SCHEMATIC DIAGRAM (LCD PCB) CVBS1/CVBS2/Y P.CON+5V FROM/TO POWER CCD_SW CD804 (CP3805) AV SW IC C3261504 IC601 MM1504XNRE BUFFER P.CON+5V C676 Q604 CVBS1 Vin1 KTC3875S_Y_RTK R618 V.OUT C677 CVBS2/Y Vin2 P.CON+3.3V P.CON3.3V REG P.CON+5V IC806 R625 KIA78D33F BUFFER Q603 KTC3875S_Y_RTK R613 CVBS1 NLV25...

[Page 100: Scaler1](#)

SCALER1 SCHEMATIC DIAGRAM (LCD PCB) SCALER IC801 (2/5 NOT CONNECT) TC90288BxBG NC_A3 NC_V1 NC_A6 NC_V3 NC_A7 NC_V4 NC_A22 NC_W22 NC_A23 NC_Y26 NC_A24 NC_AA2 SCALER_NC_B3 NC_AA3 IC801 (3/5 SCALER) NC_B4 NC_AA4 TC90288BxBG NC_B22 NC_AA25 AA25 FROM/TO LVDS NC_B23 NC_AB2 NC_B24 NC_AB3 NC_C1 NC_AB4...

[Page 101: Scaler2](#)

SCALER2 SCHEMATIC DIAGRAM (LCD PCB) SCALER IC801 (4/5 DRAM VDD) TC90288BxBG W810 D_1.5V W818 P.CON+3.3V C820 TST2_IN[4] DIG_CLK_OUT TST2_IN[3] DIG_HD_OUT C821 TST2_IN[2] DIG_VD_OUT TST2_IN[1] DIG_FIELD_OUT SCALER TST2_IN[0] IC801 (5/5 SCALER VDD) DIG_OUT[7] TC90288BxBG TSTD_IN[15] DIG_OUT[6] C896 0.1 B C822 0.1 B TSTD_IN[14] DIG_OUT[5] TSTD_IN[13]...

[Page 102: Lvds](#)

LVDS SCHEMATIC DIAGRAM (LCD PCB) LVDS FROM/TO SCALER 1 IC803 DTC34LM85AL W946 DRE4_1 DRE7_1 TxIN4 DRE6_1 DRE5_1 DRE7_1 DRE3_1 TxIN5 TxIN3 DRE4_1 DRE3_1 DRE2_1 DRE5_1 DRE2_1 TxIN6 TxIN2 DRE1_1 DRE0_1 DGE7_1 DGE0_1 TxIN7 DGE6_1 DGE5_1 DGE4_1 DRE1_1 TxIN1 DGE3_1 DGE2_1 DGE1_1 DGE1_1 DRE0_1...

[Page 103](#) MPEG/MICON/DSP SCHEMATIC DIAGRAM (DVD PCB) FROM/TO AUDIO/VIDEO DAC_VIDEO_C C4038 DAC_VIDEO_B DAC_VIDEO_A C4088 R4002 75 +-1% 0.01 B ASDATA0 0.01 B ABCLK R4003 75 +-1% ALRCLK DUPTD1 C4089 R4004 75 +-1% AMCLK DUPRD1 0.01 B R4005 75 +-1% DUPTD0 C4090 DUPRD0 RESET 0.01 B AFE_GND...

[Page 104: Memory2](#)

MEMORY2 SCHEMATIC DIAGRAM (DVD PCB) FROM/TO MPEG/MICON/DSP SD_A0 SD_A1 FLASH SD_A2 IC4007 SST39VF800A-70-4C-EKE SD_A3 SD_A4 HA16 HA15 SD_A5 SD_A6 SD_A7 C4064 HA14 SD_A8 VCCQ SD_A9 0.1 F 64M SDRAM SD_A10 HA13 SD_A11 IC4005 EDS6416AHTA-6B-E SD_D0 SD_D1 HD15 HA12 SD_D2 DQ15 SD_D15 SD_D0 SD_D3...

[Page 105: Rf Amp](#)

RF AMP SCHEMATIC DIAGRAM (DVD PCB) FROM/TO MPEG/MICON/DSP R2633 RFA_SDEN P.CON+3.3V_D RFA_DATA 4.7K RFA_SCLK FROM/TO LODER AAF_CE VR_SEL Q2603 AAF_FE VR DVD_CTL AAF_TE CD2601 2H001902 2SK3018T106 AAF_PI TURN LOGIC VR_SEL Q2606 R2620 FFC(P=0.5mm) RT1N241C1-T1 4.7K CP2601 VR_SEL_CTL R2647 VBIASS0 Q2605...

[Page 106](#) AUDIO/VIDEO SCHEMATIC DIAGRAM CVBS (DVD PCB) CVBS CVBS CVBS FROM/TO MPEG/MICON/DSP C8522 C8505 W818 DAC_VIDEO_C DAC_C[U]C_VIDEO DAC_VIDEO_C 12P CH 6.3V DAC_VIDEO_B C8523 L8502 DAC_VIDEO_A DAC_B[V]Y_VIDEO 6.3V RESET 0305 C8524 DAC_A[Y]_VIDEO 6.3V AMCLK C8508 W819 DAC_VIDEO_B ABCLK 12P CH ALRCLK L8503 ASDATA0 SYS_MUTE 0305...

[Page 107](#) MOTOR DRIVE SCHEMATIC DIAGRAM (DVD PCB) R2314 R2316 R2347 R2351 5.6K +-1% 5.6K +-1% 5.6K +-1% HS76 HS2301 763WSA0047 FROM/TO RF_AMP JG009 TRACKING CONTROL R2320 100K R2319 R2331 C2305 C2306 C2309 R2304 JG011 SPINDL CONTROL 0.1 B 0.1 B 0.1 B R2303 SPINDLE_PWM 5.1K...

[Page 108: Regulator2](#)

REGULATOR2 SCHEMATIC DIAGRAM (DVD PCB) DVD_POWER_H FROM/TO POWER FROM/TO AUDIO/VIDEO P.CON+5V_D CD501 (CP3804) TSL0808 5A 32V P.CON+3.3V_D L3004 C3241402 F3001 UNREG+12V_D DVD_POWER_H ADAPTER+12V 22uH 1206FA5A-T ADAPTER+12V 5A32V (GND,D_GND) SBP5C-11R310-101A L3001 P.CON+6.5V_D FROM/TO MOTOR DRV 100uH UNREG+12V_D P.CON+A5V_D REG+5V P.CON+6.5V_D IC3003 KIA78D05F Q3001 P.CON+3.3V_D...

[Page 109: Inverter](#)

INVERTER SCHEMATIC DIAGRAM (BACK LIGHT PCB) T7003 AW-HA284T 120.0 12.0 12.0 TO LAMP D7010 C7019 DAN222_TL CP7002 SM02(8.0)B-BHS-1 0.001 B D7002 D7009 DAN222_TL PTZTE2533B 120.0 12.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 T7004 AW-HA284T 12.0 12.0 120.0 TO LAMP CP7003 SM02(8.0)B-BHS-1 10.0...

[Page 110: Operation](#)

OPERATION SCHEMATIC DIAGRAM (OPERATION PCB) FROM/TO MICON CD101 (CP101) CU232601 R2255 R2254 R2253 R2252 R2251 KEY1 6.8K 1/4W 2.7K 1/4W 1.5K 1/4W 1K 1/4W 820 1/4W KEY2 R2202 R2204 R2206 1.5K 1/4W 1K 1/4W 820 1/4W NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME PCB270 NOTE:THE DC VOLTAGE EACH PART WAS MEASURED WITH THE DIGITAL TESTER...

[Page 111: Start Sw/End Sw](#)

START SW/END SW SCHEMATIC DIAGRAM DECK CD 15LCD/DVD SLOT IN MECHA CV-VTM101A MDN3BT3ESA M5G3-01A M5G3-02A 2H092102 04_6232_104_015_800 STEPPING_MOTOR[B-] STEPPING_MOTOR(B-) STEPPING_MOTOR[B+] STEPPING_MOTOR(B+) STEPPING_MOTOR[A-] STEPPING_MOTOR(A-) STEPPING_MOTOR[A+] STEPPING_MOTOR(A+) S2001Y LOADING_MOTOR[+] S2004Y DISC_END_SW S2002Y LOADING_MOTOR[-] S2003Y DISC_IN_SW ESE22MH22 PCB580 BED005 PCB590 BED006 (START SW PCB) ESE22MH24 (END SW PCB) NOTE:THE DC VOLTAGE EACH PART WAS...

[Page 112: Interconnection Diagram](#)

INTERCONNECTION DIAGRAM CD2601 CP2601 CP701 CD701 5 6 7 DVD POWER DVD POWER DVD_RESET DVD_RESET YELLOW WHITE BLUE GREEN START_SW START_SW FRONT VIDEO JACK FRONT AUDIO JACK FRONT AUDIO JACK COAXIAL COMPONENT JACK COMPONENT JACK COMPONENT JACK S_VIDEO J702 J703 J704 J705...

[Page 113: Waveforms](#)

WAVEFORMS MPEG/MICON/DSP AUDIO/VIDEO 10ns 500µs 1.0V 500mV 1.0V 500µs 2µs 200ns 2.0V 500mV 500mV MEMORY 200µs 10µs 2µs 500mV 200mV 2.0V RF_AMP/DSP TUNER/STEREO

10 μ s 200ns 200mV 100mV 0.5V 200ns 10 μ s 200mV 100mV 0.5V The following waveforms were measured at the point of the corresponding NOTE: balloon number in the schematic diagram.

[Page 114](#) WAVEFORMS 50ns 50 μ s 200mV 1.0V 1.0V 10 μ s 0.5ms 1.0V 200mV 1.0V 10 μ s 50 μ s 200mV 1.0V 1.0V 10 μ s 200mV 1.0V 1.0V MICON SOUND AMP 10 μ s 20 μ s 0.5V 1.0V 50mV The following waveforms were measured at the point of the corresponding NOTE: balloon number in the schematic diagram.

[Page 115](#) WAVEFORMS DECODER 0.1 μ s 50 μ s 50mV 100mV 0.5V TUNER/STEREO 10 μ s 10 μ s 200mV 0.5V 0.5V 10 μ s 200mV 0.5V IN/OUT 10 μ s 0.5V 0.5V 50 μ s 0.5V 0.5V NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

[Page 116](#) TOSHIBA CORPORATION 1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105-8001, JAPAN...