



Toshiba Gigabeat S MES60V Service Manual

Gigabeat s series digital audio player

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FILE NO. 400-200603GR

SERVICE MANUAL **TOSHIBA**

Series

DIGITAL AUDIO PLAYER

MES60V, MES30V



(US/CA) TOSHIBA

The above models are classified as green products (*1).

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).

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

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Related Manuals for Toshiba Gigabeat S MES60V

[Portable Multimedia Player Toshiba U202-BK User Manual](#)

U202-bk user's guide (135 pages)

[MP3 Player Toshiba MEG50AS Owner's Manual](#)

Digital audio player mobilphile (40 pages)

[MP3 Player Toshiba gigabeat MEG-F20 Owner's Manual](#)

Toshiba mobile audio mp3 player owner's manual (162 pages)

[MP3 Player Toshiba gigabeat MEG-F10K Specifications](#)

Brochure (2 pages)

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[MP3 Player Toshiba MEGF40S - Gigabeat 40 GB Digital Player Owner's Manual](#)

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Mobile audio player (46 pages)

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Portable media center (140 pages)

[MP3 Player Toshiba Gigabeat P Series Service Manual](#)

Digital audio player (14 pages)

[MP3 Player Toshiba DMF82XKU Owner's Manual](#)

Dmf82xku user's guide (78 pages)

Summary of Contents for Toshiba Gigabeat S MES60V

[Page 1: Digital Audio Player](#)

FILE NO. 400-200603GR SERVICE MANUAL Series DIGITAL AUDIO PLAYER MES60V, MES30V (US/CA) The above models are classified as green products (*1). 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).

[Page 2](#) Hazardous Substances. From July 1, 2006, the RoHS Directive will prohibit any

marketing of new products containing lead. 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](#) Precautions Safety Precautions for Service This section provides critical information for safety. Be sure to observe the content. Meaning of each indication is as follows: Safety indications mean that death or serious injury may be caused to service personnel DANGER and/or surrounding people or users due to incorrect work by neglecting safety instructions or due to resulting defects of the product, which indicates imminence of danger.

[Page 4](#) Precautions for Removing the Built-in Battery Do not attempt to drive a nail into the built-in battery, nor strike it with a hammer, step DANGER on it or otherwise subject it to strong impact. The electrodes may shortcircuit, resulting in heat generation, explosion or ignition. Do not connect the electrodes (positive/negative terminals) of the built-in battery using a wire or other metal object.

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[Page 6: Product Overview](#)

1. Product Overview [TOSHIBA HDD audio player gigabeat S series] is the portable audio player in which the HDD of 30GB/60GB is built. As the built-in HDD is thick, the MES60 is thicker. Main differences from the previous model (gigabeat X series) are as follows.

[Page 7: Accessories](#)

1.1.2. Accessories The product is furnished with main accessories as follows. AC adaptor • Power cord (which varies with destinations.) • USB cable • USB conversion cable • Wired remote controller (Option) • Headphones • Software CD-ROM • Owner's Manual 1.1.3.

[Page 8: How Music/Video Is Played Back](#)

1.1.5. How music/video is played back This section explains how the unit plays back the content (compressed music data (WMA/MP3, PCM music data (WAV) and video data (WMV)) stored on the HDD. The CPU reads out the content data (WMA/MP3/WAV/WMV) on the HDD and stores it in the SDRAM. The CPU accesses to the HDD every few minutes (It differs depending on the content's bit rate.), reads out the data, and accumulates it in the SDRAM.

[Page 9: Block Diagram](#)

2. Block diagram 2.1. Logic circuit block diagram...

[Page 10: Power Circuit Block Diagram](#)

2.2. Power circuit block diagram...

[Page 11: Cautions On Repair](#)

3. Cautions on repair Before repairing a product of the gigabeat S series, take the following cautions: 3.1. Tell the owner that the contents on the HDD may be erased. Replacing or formatting the HDD will erase the content on the HDD. Therefore, in receiving the product from the owner, ask the owner to back up his/her important data.

[Page 12: When Replacing The Hdd](#)

3.3. When replacing the HDD 3.3.1. Protect the HDD from impact. Note that the HDD is vulnerable to impact. Merely falling the HDD from a vertical position would give an impact exceeding the specifications. 3.3.2. Holding the HDD When holding the HDD, hold it at the following position: Do not hold it at the following position:...

[Page 13: Process At Hdd Replacement](#)

3.3.3. Process at HDD replacement When replaced to the un-formatted HDD, restore the HDD in the factory setting state by transferring the firmware and the supplied data to the HDD in the procedure below. [HDD formatting] 1) Set the BATTERY switch to "OFF". 2) Connect the AC adaptor and start up the unit.

[Page 14](#) Fig. Menu display on the PC (T&D Transfer) Check two points of (A) and (B) on the above menu. These are different for every destination ((A) is same.) The display for every destination is as shown below. Table Difference on the display by destination (Differences are underlined.) Destination Japan version 0.9.9.10...

[Page 15](#) Table Destination and Folder Destination Folder name Scenario file name Japan OTTOMAN_DEL_JP OTTOMAN_DEL_JP.ini U.S.A. OTTOMAN_DEL_US OTTOMAN_DEL_US.ini The menu display is the same as in step 4). Check two points of (A) and (B) on the menu in step 4). These are different for every destination ((A) is same.) The display for every destination is shown below. Table Differences of display by destination (Differences are underlined.) Destination Japan...

[Page 16: When Replacing The Main Board](#)

Table Differences of display by destination (Differences are underlined.) Destination Japan version 0.9.9.10 TRANS SAMPLE COMTENTS(JP) Ver.6423A U.S.A. version 0.9.9.10 TRANS SAMPLE COMTENTS (US) Ver.6423A 13) Wait for a while. Then, "OK" appears on the PC. 14) Remove the USB cable. At this moment, be careful not to touch the POWER button. By removing the USB cable, "OK"...

[Page 17](#) [T&D Transfer] 4) Start up the [Transfer Program (Ottoman.exe)] on the PC and select the scenario file (*.ini) in which files to be transferred are described. Ottoman.exe and the scenario file are provided on the CD-ROM (Material No.: 360058245). Names for the destination-wise stored folder and file are different depending on the destination.

[Page 18](#) 5) Wait for a while. Then, "OK" appears on the PC. 6) Remove the USB cable. At this moment, be careful not to touch the POWER button. By removing the USB cable, "OK" on the PC disappears. 7) The unit is automatically started up. [T&D Execution] 8) Execute T&D.

[Page 19](#) [Transfer of FW for factory setting] 9) Transfer the FW for factory setting in the same manner as in step 4). Terminate Ottoman.exe once. Start up newly the [Transfer Program (Ottoman.exe)] on the PC and select the scenario file (*.ini) in which files to be transferred are described.

[Page 20: When Replacing The Lcd And Lcd Backlight Unit](#)

Table Destination and Folder Destination Folder name Scenario file name Japan OTTOMAN_SAMPLE_JP OTTOMAN_SAMPLE_JP.ini U.S.A. OTTOMAN_SAMPLE_US OTTOMAN_SAMPLE_US.ini The menu display is also the same as in step 4). Check two points of (A) and (B) on the menu in step 4). These are different depending on the destination ((A) is same.) The display for every destination is shown below.

[Page 21: Troubleshooting](#)

4. Troubleshooting Shown below is the defect analysis procedure as a maintenance service. Before repair (parts replacement), be sure to see "3. Cautions on repair". 4.1. Anticipated defects 1) The unit will not turn on. 2) No sound comes out. 3) FM cannot be received.

[Page 22: Defect Analysis Procedure As A Maintenance Service](#)

4.2. Defect analysis procedure as a maintenance service 4.2.1. The unit will not turn on. Set the BATTERY switch to "OFF". (See "Charging the built-in battery" in the Owner's Manual.) Connect the AC adaptor to the unit. Does the unit start Replace the AC cord, AC adaptor, Set the BATTERY switch to "ON".

[Page 23](#) Continued from the previous page If the unit turns on successfully, the owner may have set the BATTERY switch to "OFF" or have the battery discharged. Therefore, leave (recharge) the battery at least four hours as is. Then, remove the AC adaptor and try to turn on the unit.

[Page 24: No Sound Comes Out](#)

4.2.2. No sound comes out. Set the BATTERY switch to "OFF". (See "Charging the built-in battery" in the Owner's Manual. Connect the AC adaptor. Release the HOLD switch. Then, turn on unit (By holding down the POWER button.). Press repeatedly the VOL(+)/VOL(-) button.

[Page 25: The Sound Is Odd](#)

4.2.4. The sound is odd. Check with the owner whether the sound heard when played back on the unit deviates from the sound heard when the source data is played back on the PC. (Check if the data on the PC is normal.) Is the sound normal on the PC? Replace the main PCB assembly,...

[Page 26: The Battery Cannot Be Recharged](#)

4.2.9. The battery cannot be recharged. (When battery-powered, the unit plays back only for a short time.) Conduct a hearing of how the owner has been using the unit. If he or she is suspected of having repeated at least 500 recharge-discharge operations, the battery life may expire. Replace the lithium ion battery. The play-back time (12 hours) of battery as specified in the catalogs is applicable when the WMA format sound is played back.

[Page 27: Hdd Is Not Recognized](#)

4.2.10. HDD is not recognized. Turn on the unit. Then, check the message displayed. Check the error message. In case of display In case of display Replace either of the HDD flexible Without replacing the HDD, cable or the main PCB assembly. Or implement "3.3.3 Process at HDD re-plug in.

[Page 28: Procedure To Confirm The Unit's F/W Version](#)

5. Procedure to confirm the unit's F/W version To display the version, perform the steps below. 1) Hold down the POWER button to turn on the unit. 2) Select [settings] → [information] → [Portable Media Center] from the start menu. 3) Confirm the version displayed.

[Page 29: Disassembling/Reassembling Procedures](#)

6. Disassembling Procedures/Reassembling Procedures 6.1. Disassembling Procedures Photo Description Note Step Tool Turn off the battery switch of unit (indicated by arrow). Rear of unit Remove the strap Philips holder. screwdriver Remove the screw at Philipps the side. scredriver Remove the screw at Philipps the side.

[Page 30](#) Photo Description Note Step Tool Remove the screw at Philips the bottom. screwdriver Remove the back cover. Fix the back cover and slide the top cover in the arrow direction. The back cover and the top cover are removed. Remove the flexible Release the lock of Tweezers cable leading from the...

[Page 31](#) Step Photo Description Note Tool The board fixing bracket bracket 1 piece, screw is removed. 2 pieces Remove the HDD Release the lock, lifting Tweezers flexible cable. the connector lock upward. The HDD is removed. Remove the terminal The terminal board is Philips board.

[Page 32](#) Photo Description Note Step Tool The battery is removed. Release the lock, lifting up the lock lever of CN1. Remove the SW sheet Release the lock with Flathead bracket and then the the flathead screwdriver screwdriver SW button. inserted through the gap at the side and remove it.

[Page 33](#) Step Photo Description Note Tool The LCD block is removed. Remove the FFC cable of terminal board, unlocking. Remove the FFC cable leading from SW, unlocking. The board removal is finished.

[Page 34: Reassembling Procedures](#)

6.2. Reassembling Procedures Photo Description Note Step Tool <Board Assembling> Be sure to lock. Insert the FFC cable leading from SW. Affix securely the protection tape to the original position. Connect the FFC cable Be sure to lock. of terminal board. <Building-in of LCD Be sure to lock.

[Page 35](#) Photo Description Note Step Tool The board, LCD, Place the SW button on terminal board and SW the original position. sheet bracket are fixed to the front panel. Place the SW

button on Push it in until it is the original position and locked by the bracket.

[Page 36](#) Photo Description Note Step Tool Install the board fixing Philips bracket with two screws. screwdriver Install the flexible cable Tweezers leading from side switch to the connector. Align the back cover Slide groove (Indicated and the top cover with by arrow) the slide groove.

[Page 37](#) Step Photo Description Note Tool Tighten the screws at Philips the side. screwdriver Install the strap holder. Philips screwdriver Assembling is finished.

[Page 38: Exploded View](#)

7. Exploded View (MES60V)

[Page 39: Parts List](#)

8. Parts List gigabeat S-SERIES-(US/CA) : MES30VW ,MES60VK Safety Location Sevice Parts Description Model Remarks Parts P000469230 AM0007928110 TOP PANEL ASSY BLACK MES60VK P000468880 AM0007928120 TOP PANEL ASSY WHITE MES30VW P000469090 PM0025188130 BASE T1 WW30 MES60VK P000469260 PM0025189130 BASE T2 WW60 MES30VW P000469100 PM0025192110...

[Page 40: Specifications](#)

Specifications Audio format • WMA (Windows Media Audio) • WMA 9 Lossless • MP3 (MEPG-1 Audio Layer3) • WAV (PCM) Video format WMV (Windows Media Video) Photo format JPEG (9000 x 6000 max.) Sampling frequency 8 to 48 kHz Bit rate (Audio data) 4 to 320 kbps (Video data) Less than or equal to 800kbps Bit rate of the video data is that of audio + video.

[Page 41](#) *1: 1 Gigabyte(GB) means $10^9 = 1,000,000,000$ bytes using powers of 10. The operating system of the gigabeat and certain computer operating systems, however, calculate storage capacity using powers of 2 for the definition of 1 GB $= 2^30 = 1,073,741,824$ bytes and therefore show less storage capacity.

[Page 42](#) 3 Follow the on screen instructions Trademarks • gigabeat and Plus Touch are trademarks of Toshiba Corporation. • Microsoft, Windows, Windows Media and Windows Mobile are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

This manual is also suitable for:

[Gigabeat s mes30v](#)