



Asus ROG Zephyrus G16 GU603V Series Service Manual

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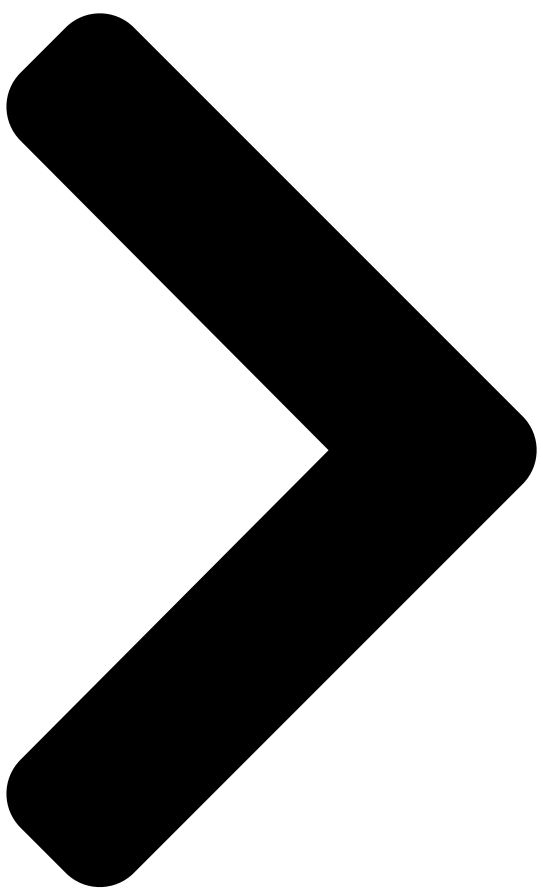
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Summary of Contents for Asus ROG Zephyrus G16 GU603V Series

[Page 1](#) ASUS ROG Zephyrus G16 (GU603V) series Service Guide...

[Page 2](#) LIMITATION OF LIABILITY Circumstances may arise where because of a default on ASUS' part or other liability, you are entitled to recover damages from ASUS. In each such instance, regardless of the basis on which you are entitled to claim damages from ASUS, ASUS is liable for no more than damages for bodily injury (including death) and damage to real property and tangible personal property;...

Page 3 Disclaimer ASUS is not responsible for direct, indirect, intentional or unintentional damages resulting from improper installation and operation. Safety precautions • Keep liquids or moisture away from your Notebook PC before installing or removing any components. • Ensure to place your Notebook PC on a stable surface before installing or removing any components.

[Page 4](#) Table of Contents • Service Overview • ASUS ROG Zephyrus G16(GU603V) Overview • Components Top View • Components Bottom View • Repair Overview • Appropriate Tools • Keyparts and Related Parts • Disassembly steps : • BOTTOM CASE • ...

Page 5 Service Overview • Carefully read through this Service Guide for a look at various components of the device before performing any service and repairs. • To provide the best service, we have provided the below information for technicians from distributors and resellers to perform the complete device disassembly and assembly.

Page 6 ASUS ROG Zephyrus G16 (GU603V) series Overview Top View Cover View ①
Microphone ① Array microphones ② Camera ③ Camera indicator ④ Display panel ⑤ Status
indicators ⑥ Audio speakers ⑦ Capital lock indicator Bottom View ⑧ Power button ⑨ Keyboard

[Page 7](#) Components Top View ♦ THERMAL MODULE ♦ LCD Panel (16") ♦ KEYBOARD MODULE ♦
BOTTOM CASE ♦ MAIN BOARD ♦ FAN ♦ LCD COVER MODULE ♦ LCD BEZEL ♦ HALL SENOR BD ♦
BUTTON BD ♦ SSD ♦ BATTERY ♦ WIFI CARD ♦...

[Page 8](#) Components Top View ♦ HALL SENSOR PCB ADH ♦ LCD CU FOIL ♦ CABLE SPONGE ♦ KB TAPE ♦ GRAPHITE ♦ CABLE TAPE ♦ EDP CABLE ♦ MB WIFI MODULE MYLAR ♦ PW FFC ♦ MIC FPC ♦ SCREW RUBBER ♦...

[Page 9](#) Components Bottom View ♦ LCD COVER MODULE ♦ LCD BEZEL ♦ BUTTON BD ♦ LCD Panel ♦ MAIN BOARD ♦ THERMAL MODULE ♦ HALLSENSOR BD ♦ POWER KEY BEZEL ADHESIVE TOP LCD ADHESIVE BEZEL ADHESIVE L/R LCD BEZEL ADHESIVE ♦ KEYBOARD MODULE ♦...

Page 10 Repair Overview This chapter describes disassembly and assembly (Assemble document please look up from the last page), please follow the information provided in this section to perform the complete disassembly procedure. ♦ Precautions: Before you perform any service or repair on the notebook, please pay special attention to the cautions prevent any damages to the notebook. 1.

Page 11 Appropriate Tools Please prepare and select the appropriate tools to disassemble/assemble for the ASUS ROG Zephyrus G16 (GU603V) series notebook. ♦ Screwdriver ♦ Alcohol 95% ♦ Glove ♦ Dust-free Cloth Please accord to different screw specification to choose different screwdriver and head.

Page 12 Appropriate Tools Please prepare and select the appropriate tools to disassemble/assemble for the ASUS ROG Zephyrus G16 (GU603V) series notebook. 5 7 1 3 2 4 6 Warning! When the tool is with Liquid Metal residue, please clean tools with dust free cloth and 95% alcohol.

Page 13 BOTTOM CASE The device has an Ambient Light Sensor (ALS) for power-off protection function. Disassembly Notice Step 1 : Remove rubbers *3pcs. Ambient Light Sensor (ALS): Screws Spec Torque (kgf-cm) 1. After removing the BOTTOM Step 2 : Remove screws *12pcs. M2*11L (4.5,0.8) (K) #1 2.0±0.2 CASE, the ambient light sensor...

Page 14 The device has an Ambient Light Sensor (ALS) for power-off protection function.
Disassembly Notice Assembly Notice Please be sure to pull out adapter and disconnect the battery. Screws Spec Torque(kgf-cm) Step 1 : Disconnect the battery connector. When installing the SSD, please M2*4.5L(4.5,0.8) (K)#1 2.0±0.2 Step 2 : Remove the Thermal PAD upon the SSD.

Page 15 The device has an Ambient Light Sensor (ALS) for power-off protection function. Assembly Notice Please be sure to pull out adapter and disconnect the battery. When installing the SSD, please keep the SSD less than 15 degrees with motherboard, and then insert the SSD. Please use SSD1 slot as first priority.

[Page 16](#) The device has an Ambient Light Sensor (ALS) for power-off protection function. Disassembly Notice Please be sure to pull out adapter and disconnect the battery. Step 1 : Tear off DIMM CONN ABSORBER. Step 2 : Unlock and remove the DDR. Step 3 : Tear off DIMM BOT ABSORBER *1pc from DDR.

[Page 17](#) The device has an Ambient Light Sensor (ALS) for power-off protection function. Assembly Notice Please be sure to pull out adapter and disconnect the battery. Follow below steps to paste absorber on DDR. Align Follow below steps to assemble DDR. Align °...

[Page 18](#) BATTERY The device has an Ambient Light Sensor (ALS) for power-off protection function. Disassembly Notice Please be sure to pull out adapter and disconnect the battery. Screws Spec Torque(kgf-cm) Step 1 : Remove screws *4pcs. M2*8.0L (4,0.8) (K) #1 2.0±0.2 Step 2 : Remove BATTERY.

[Page 19](#) WIFI CARD The device has an Ambient Light Sensor (ALS) for power-off protection function. Disassembly Notice Please be sure to pull out adapter and disconnect the battery. Screws Spec Torque(kgf-cm) Step 1 : Tear off the TAPE and MYLAR. Step 2 : Disconnect RF cable *2pcs. M2*4.5L(4.5,0.8) (K)#1 2.0±0.2 Step 3 : Remove the screw *1pc.

[Page 20](#) HALL SENSOR BD The device has an Ambient Light Sensor (ALS) for power-off protection function. Disassembly Notice Please be sure to pull out adapter and disconnect the battery. Assembly Notice Step 1 : Disconnect the HALL SENSOR FFC connector. Step 2 : Remove HALL SENSOR FFC. If FFC is damage during disassembly, please Step 3 : Remove HALL SENSOR BD.

[Page 21](#) WOOFER The device has an Ambient Light Sensor (ALS) for power-off protection function. Disassembly Notice Please be sure to pull out adapter and disconnect the battery. Assembly Notice Step 1 : Disconnect the SPEAKER connector (green mark) and release tape *1pc (yellow mark). Step 2 : Remove the WOOFER.

[Page 22](#) THERMAL MODULE The device has an Ambient Light Sensor (ALS) for power-off protection function. Disassembly Notice Assembly Notice Please be sure to pull out adapter and disconnect the battery Step 1 : Disconnect cables (yellow mark) and release tapes/sponges in green area. Step-1 Step 2 : Please follow the reverse screws numbers to remove and release screws *7pcs.

[Page 23](#) The device has an Ambient Light Sensor (ALS) for power-off protection function. Disassembly Notice Please be sure to pull out adapter and disconnect the battery. Step 1 : Disconnect connectors *2pcs. (Yellow mark) Screws Spec Torque (kgf-cm) Step 2 : Remove screws *4pcs. (Green mark) Step 3 : Remove the FAN *2pcs.

[Page 24](#) MAIN BOARD The device has an Ambient Light Sensor (ALS) for power-off protection function. Disassembly Notice Please be sure to pull out adapter and disconnect the battery. Step 1 : Disconnect connectors (yellow mark). Screws Spec Torque (kgf-cm) Step 2 : Remove screws *2pcs (green mark). M2*4.5L (4.5,0.8) (K) #1 2.0±0.2 Step 3 : Remove the MAIN BOARD.

[Page 25](#) MAIN BOARD Mainboard connector placement FP PW FFC CPU FAN GPU FAN IR CAM CABLE Antenna EDP CABLE WOOFER SPEAKER Supports using JIG BOARD to refresh F1 BIOS TWEETER SPEAKER HALL SENSOR FFC BL FPC Battery TP FFC KB Membrane Back...

[Page 26](#) MAIN BOARD Materials on mainboard GA503QS TC BOSS WASHER L ASSY GA503QS TC BOSS WASHER R ASSY GU603ZX RUBBER GPU BKT GU603ZX CPU TOP ABSORBER GA503QS GN20 GPU BRACKET ASSY GU603ZX CPU BRACKET ASSY GA503QS GPU ABSORBER GU603ZX MB TOP TAPE 1 GU603ZX MB TOP SPONGE 1 GU603ZX MB TOP GASKET 1 GX550LXS MB DIMM ABSORBER...

[Page 27](#) MAIN BOARD Materials on mainboard G531GW SMT GASKET 2*2*2 GU603ZX CPU BOT ABSORBER 1 GU603VV GN20 E8 GPU ABSORBER GU603ZX CPU MYLAR C300SA EMI SMT GASKET FX507VU GASKET LPG-R 3-4-3.5 GU603VV ALS SOPNGE GA503QS BATTERY SUPPORT WASHER ASSY Back...

[Page 28](#) BUTTON BD The device has an Ambient Light Sensor (ALS) for power-off protection function. Disassembly Notice Step 1 : Remove screws *2pcs and remove BUTTON BD with FP PW FFC. Screws Spec Torque (kgf-cm) Step 2 : Disconnect connector and remove FP PW FFC from

BUTTON BD. M2*3L (K) B-ZN #1 NY 2.0±0.2 Step 3 : Remove POWER KEY from top case.

[Page 29](#) TWEETER The device has an Ambient Light Sensor (ALS) for power-off protection function. Disassembly Notice Step 1 : Release TWEETER TAPE *6pcs (red mark). Assembly Notice Step 2 : Insert plastic blade from upper side of tweeter and lift it up to remove from KB module.

[Page 30](#) TOUCHPAD MODULE The device has an Ambient Light Sensor (ALS) for power-off protection function. Disassembly Notice Step 1 : Disconnect and remove the FFC. Screws Spec Torque (kgf-cm) Step 2 : Flip up the KB FPC and remove screws *3pcs. M2*2.5L (4.5,0.5) (K) #1 2.0±0.2 Step 3 : Remove TOUCHPAD module.

[Page 31](#) KEYBOARD MODULE The device has an Ambient Light Sensor (ALS) for power-off protection function. Disassembly Notice Step 1 : Remove hinge's screws *6pcs. Screws Spec Torque (kgf-cm) Step 2 : Flip up and remove KB module. M2*4.5L (4.5,0.8) (K) #1 2.0±0.2 Flip up and remove Unscrew...

[Page 32](#) LCD BEZEL The device has an Ambient Light Sensor (ALS) for power-off protection function. Disassembly Notice Step 1 : Remove LCD BEZEL. Step 1-5 Due to some tapes behind the lower edge of bezel, please using plastic blade to teardown the bezel. Please follow the direction shown in the red arrow, to move plastic blade from left to right and peel the bezel away slowly.

[Page 33](#) LCD PANEL The device has an Ambient Light Sensor (ALS) for power-off protection function. Disassembly Notice Step 1 : Pull out LCD adhesive *2pcs. Screws Spec Torque (kgf-cm) Step 2 : Flip up the panel and disconnect the EDP cable. M2.5*2.3L(7.5,0.6)(K) #1 2.3±0.2 kgf-cm Step 3 : Remove screws *6pcs then remove HINGE module R &...

[Page 34](#) LCD PANEL The device has an Ambient Light Sensor (ALS) for power-off protection function. Assembly Notice Before assembly the NEW LCD PANEL : When reuse the LCD PANEL or BEZEL: Please make sure paste GRAPHITE and CU FOIL at panel back side. Please use the fingertip to clean the residual glue on PANEL or BEZEL.

[Page 35](#) LCD PANEL The device has an Ambient Light Sensor (ALS) for power-off protection function. Assembly Notice When assembly the LCD PANEL: (The following is an operation example) Step 1~2 : Paste NB LCD MYLAR *6pcs on LCD COVER. (Positions are as below) Upper Left Corner : Mylar *3pcs Upper Right Corner : Mylar *3pcs Step-1...

[Page 36](#) LCD COVER MODULE The device has an Ambient Light Sensor (ALS) for power-off protection function. Disassembly Notice Step 1 : Release GASKET and disconnect MIC FPC connectors. Assembly Notice Step 2 : Remove MIC FPC and EDP CABLE. Step 3 : Remove CAMERA. After the camera module is assembled, please Step 4 : Remove MIC RUBBER *2pcs.

[Page 37](#) LCD COVER The device has an Ambient Light Sensor (ALS) for power-off protection function. Assembly Notice Please follow the green mark to tidy up MIC FPC and EDP CABLE. CABLE SPONGE Back...

[Page 38](#) LCD COVER The device has an Ambient Light Sensor (ALS) for power-off protection function. Assembly Notice When reuse the LCD COVER: Please follow the green mark to tidy up ANTENNA CABLE. Please paste new PANEL ADHESIVE *2pcs. (New LCD COVER already contains PANEL ADHESIVE *2pcs) ANTENNA A2 ANTENNA A1 LCD ADHESIVE...

This manual is also suitable for:

Rog zephyrus g16 gu603viRog zephyrus g16 gu603vuRog zephyrus g16 gu603vvRog zephyrus g16 gu603ziRog

