

Service Manual

JBL FLIP 3 (S/N starting with TL)

Bluetooth Portable Speaker



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Technical Specifications

1 Audio Section

1.1.1 Speaker Output

| Description | Specification |
|---|---|
| Rated Output Power | 2 x 8W +-10% (Measure before power limiter at 1% THD). Please refer to Acoustic Design Specification. |
| Input Sensitivity | Aux: 370mV +/- 10% Wireless input:-9dBfs +/-1dB |
| Input Overload | Aux: 1V rms BT: 0dBFS |
| Auto Turn On Input Sensitivity | @1KHz, Typical: 2mV Limit: 4mV @100Hz Typical: 10mV Limit:15mV |
| Frequency Response (Output Power) | Aux_in: 40Hz to 20KHz +/- 1dB (EQ setting is disable) BT: 20Hz to 19KHz +/- 1dB (EQ setting is disable) |
| Frequency Response (Output Power) with EQ setting | TBC |
| THD+N at 1W | <0.5%@100hz/7khz, else<0.3% |
| THD+N at Rated Output Power | <1% |
| | |
| Signal-to-Noise ratio at Rated Output Power | 80dB (A-Weighted) |
| Channel Separation | 45dB @100Hz |
| | 50dB @1KHz |
| | 45dB @10KHz |
| Channel Crosstalk | 80dB @100Hz |
| | 75dB @1KHz |
| | 70dB @10KHz |
| Inter Channel Gain Difference | <0.5dB |
| Residual Noise | 80nW |

1.1.2 Microphone

| Short Circuit Protection at Output Stage | The amplifier should be protected so that no functional failure occurs when it is operated with a short across its output stage for 2 minutes. The amplifier should recover after removing the short condition. |
|--|---|
| DC Offset Protection | The amplifier with output power of higher than 50W per channel must ensure that no DC is available at its output in normal mode as well as abnormal/faulty condition mode. |
| Thermal Protection | There should not be any breakdown or activation of any protection circuit during the entire thermal profile test. Refers to the Thermal Profile test stated in Reliability Test Plan for Multimedia Powered Speaker System. |
| Output Power Duration | FTC requirement: Warm-up or preconditioning period at 1/8 power for 1 hour, followed by 5 minutes of continuous Rated Output Power (ROP). Channels in the same frequency range are tested at ROP. Subwoofer is tested separately. |
| | IEC requirement: Output power distortion limited of 60 sec Short-term maximum output power of 1 sec Long-term maximum output power of 1 minutes Temperature-limited output power infinitely |

1.2 USB Section

Reference: USB-IF USB 2.0 Electrical Test Specification Version 1.03 dated January, 2005

1.3 Bluetooth Section

1.3.1 General

| Description | Specification |
|--------------------|---|
| Bluetooth Standard | Version 4.1 |
| Frequency Band | 2.402 – 2.480 GHz |
| Host Interface | UART |
| Profile Supported | HFP (Audio Gateway and Handsfree) A2DP (Advanced Audio Distribution Profile) AVRCP (Audio/Video Remote Control Profile) Refer SRD |
| Audio Codec | SBC (Subband Codec) |
| Data Rate | 2.1Mbps (over the air) 300Kbps (over UART) |
| Antenna | External |
| Certification | CE, FCC, BQE |

1.3.2 Transmitter Performance @BDR Mode

| Description | Specification |
|--|---|
| Maximum Transmit Power @ antenna connector | 0 ~ 4dBm(class II) |
| Power Control | Maximum Power Step <=8dB Minimum Power Step >=2dB |
| Initial Carrier Frequency Shift | +/- 75KHz |
| Carrier Drift - Drift Rate - Drift (Single Slot Packet) - Drift (Three Slot Packet) - Drift (Five Slot Packet) | +/- 20KHz/50us +/- 25KHz +/- 40KHz +/- 40KHz |
| Modulation Characteristic - F1avg - F2 Max Pass rate - F1/F2 Ratio | 140KHz – 175KHz >=115KHz >= 0.8 |

1.3.3 Receiver Performance

| Description | Specification |
|---------------------------------------|---------------|
| Single Slot Sensitivity @ <=0.1%BER | <= -85dBm |
| Multiple Slot Sensitivity @ <=0.1%BER | <= -85dBm |
| Maximum Input Level @ <= 0.1% BER | >= -20dBm |

1.3.4 Transmitter Performance @EDR Mode

| Description | Specification |
|---|---|
| Relative transmit power @ antenna connector | -2 to 1 dBm |
| EDR Carrier Frequency Stability and Modulation Accuracy | w ₀ <10KHz |
| | w _i <75KHz |
| | w ₀ + w _i <75KHz |
| | RMS DEVM<20% |
| | 99% DEVM<30% |
| | Peak DEVM<35% |
| EDR differential phase encoding | >=99% |

1.3.5 Antenna Performance

| Description | Specification |
|------------------------------|-----------------------------|
| Antenna VSWR | Typical: 1.5 Limit: 1.7 |
| Antenna Return Loss | Typical: -14dB Limit :-12dB |
| Antenna Radiation Efficiency | >= 40% |

1.4 Hands free section

1.4.1 Test equipment

1.4.2 Audio Performance

| Description | Specification |
|---|---------------------------------|
| Send Loudness Rating (SLR) | Typical: 13dB Limit: +/- 4dB |
| Receive Loudness Rating (RLR),Max | >-13dB |
| Receive Loudness Rating (RLR),Normal | Typical: 2dB Limit: +/- 4dB |
| Weighted Terminal Coupling Loss (TCLw), volume is set at Max | 40dB |
| Weighted Terminal Coupling Loss (TCLw), volume is set at normal | 47dB |

1.5 Battery Section

1.5.1 General Specification

| Description | Specification | Standard and Method of Measurement |
|-------------------------------|---|--|
| Typical Capacity | 3000mAH | |
| Charge Voltage | 4.2V | |
| Output Voltage | Typical: 3.7V Limit: 4.2V | No Load Condition |
| Cut Off Voltage | Typical : 3.0V Limit : 2.8V | |
| Standard Charging Method | 0.5C Constant current charge to 4.2V (+/- 0.05V), then constant voltage 4.2V charge till charge current decline to <= 0.05C | |
| Charging Time | 3 hour (Standard Charging) | |
| Maximum Charge Current | 1.0C | |
| Standard Discharge Method | Discharge current of 0.5C with 3.0V cut-off after standard charging. | |
| Maximum Discharge Current | 2.0C | |
| Overcharge Current Protection | 12A | |
| Cycle Life | Typical: 80% of initial capacity Limit: 75% of initial capacity | Continuous standard charge and discharge for <u>500</u> cycles. The capacity is measured at the end of <u>500</u> cycles |
| Capacity Retention | Typical: 90% of initial capacity Limit: 85% of initial capacity | Fully charge the battery at 23 +/-5°C, then stored it at an ambient temperature for 60 days. Measured the capacity after 60 days storage with 0.5C discharge at 23 +/-5°C as retention capacity. |
| Continuous Charge Test | No leakage, no visible evidence of electrolyte loss, no explosion and no fire. | The battery discharged at 0.5C 23 +/-5°C, then fully charged and held at the specified end of charge voltage for total period of 30 days. |
| Over Charging Discharging | No leakage, no visible evidence of electrolyte loss, no explosion and no fire. | The battery fully charged at 0.5C 23 +/-5°C, discharge the battery at constant 0.5C, until battery circuit terminates discharge or at 0V, then charge the battery with 0.5C until battery circuitry terminates charge or at 4.2V. Repeat the cycle for 30 times. |
| Short Circuit | No explosion, no fire, maximum temperature of battery surface should not exceed 150°C | The battery to be fully charged with standard charging condition, and short the positive and negative terminal with wire resistance = 30 mOhm. |

1.5.2 Battery Charging Time

System at Power off mode, charging time is less than 3. Hour using Harman 5V/2.3A adaptor.

1.5.3 Battery power off current

System at power off mode, battery current is less than 100uA

1.5.4 Battery Playtime

Test Audio Signals:

3 pre-selected MP3 tracks

Requirements:

Estimate Playtime > 8 hours for Music Playback

Test Condition (Ambient Temperature 23 +/-5 degree)

- 1. Insert fresh and fully charged Li-Poly cells into the DUT. Connected a multi-meter at the battery terminals to measure its voltage.
- 2. Set the DUT to Bluetooth Mode. Use iPhone as the music source.
- 3. Set the DUT to maximum volume and playback a 1 KHz 0dB music track through the iPhone. Record the Rated Output Power (ROP).
- 4. Adjust the volume step of the iPhone until the audio output of the DUT is ¼ of ROP. Record the volume step on the iPhone.
- 5. Set the iPhone's volume to the volume step as recorded in step 4. Playback 3 pre-selected MP3 track in repeat play mode. Record the start time.
- 6. Measure the battery voltage every 5 to 10 minutes interval. When audio is inaudible, record the end time. Compute the battery playtime for 3 pre-selected MP3 track.

Note, please don't adjust iPhone's volume during set up and testing since that will change the DUT's volume by AVRCP.

Important Safety Instructions

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with a dry cloth.
- 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles and the point where they exit from the apparatus.
- 11. Only use attachments/accessories specified by the manufacturer.
- 12. Use only with the cart, stand, tripod, bracket or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over



- 13. Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, or the apparatus has been exposed to rain or moisture, does not operate normally or has been dropped.
- 15. Do not expose this apparatus to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on the apparatus.
- 16. To completely disconnect this apparatus from the AC Mains, disconnect the power supply cord plug from the AC receptacle.
- 17. The mains plug of the power supply cord shall remain readily operable.
- 18. Do not expose batteries to excessive heat such as sunshine, fire or the like.

For Products That Transmit and Receive RF Energy:

FCC Regulations (USA Only)

FCC Information For Users

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference; and (2) this device must accept any interference received, including interference that may cause undesired operation.

Radio and Television Interference

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and then on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Increase the separation between the equipment and receiver.
- Connect the equipment to a different outlet so that the equipment and receiver are on different branch circuits.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE: Changes or modifications not expressly approved by Harman could void the user's authority to operate the equipment.

IC Statement and Warning (Canada Only)

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

For Canadian Mode

This Class B digital apparatus complies with Canadian ICES-003.

Modèle pour les Canadien

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

For Products with Radio Receivers That Can Use an External Antenna:

CATV or Antenna Grounding

If an outside antenna or cable system is connected to this product, be certain that it is grounded so as to provide some protection against voltage surges and static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984, 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 of the grounding electrode.

Note to CATV System Installer:

This reminder is provided to call the CATV (cable TV) system installer's attention to article 820-40 of the NEC, which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as possible.

For CD/DVD/Blu-ray Disc™ Players:

CLASS 1 LASER PRODUCT KLASSE 1 LASER PRODUKT LUCKAN 1 LASER LAITE KLASS 1 LASER APPARAT CLASSE 1 PRODUIT LASER

CAUTION

RISK OF ELECTRIC SHOCK. DO NOT OPEN.



THE LIGHTNING FLASH WITH AN ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.



THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE PRODUCT.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

Caution:

This product uses a laser system. To prevent direct exposure to the laser beam, do not open the cabinet enclosure or defeat any of the safety mechanisms provided for your protection. DO NOT STARE INTO THE LASER BEAM. To ensure proper use of this product, please read the owner's manual carefully an etain it for future use. Should the unit require maintenance or repair, please contact your local Harman Kardon service center. Refer servicing to qualified personnel only.

For Products That Include Batteries:



Instructions for Users on Removal and Disposal of Used Batteries.

CAUTION

Risk of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

Alkaline batteries are considered nonhazardous. Rechargeable batteries (i.e., nickel cadmium, nickel metal-hydride, lithium and lithium-ion) are considered hazardous household materials and may pose an unnecessary health and safety risk.

In the European Union and other locations, it is illegal to dispose of any battery with household trash. All batteries must be disposed of in an environmentally sound manner. Contact your local waste management officials for information regarding the environmentally sound collection, recycling and disposal of used batteries.

To remove the batteries from your equipment or remote control, reverse the procedure described for inserting batteries in the owner's manual.

For products with a built-in battery that lasts for the lifetime of the product, removal may not be possible for the user. In this case, recycling or recovery centers handle the dismantling of the product and the removal of the battery. If, for any reason, it becomes necessary to replace such a battery, this procedure must be performed by authorized service centers.

ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field effect transistors and semiconductor "chip" components.

The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

- 1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
- 2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge build-up or exposure of the assembly.
- 3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
- 4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
- 5. Do not use freon-propelled chemicals. These can generate electrical change sufficient to damage ES devices.
- 6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material.)
- 7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together or your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES devices.

PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing.

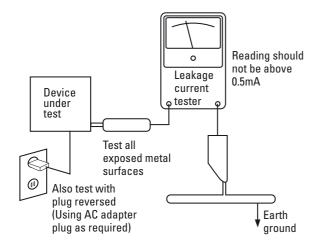
Components identified with the IEC symbol in the parts list are special significance to safety. When replacing a component identified with in the parts list are special significance to safety. When replacing a component identified with in the replacement parts designated, or parts with the same ratings or resistance, wattage, or voltage that are designated in the parts list in this manual. Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

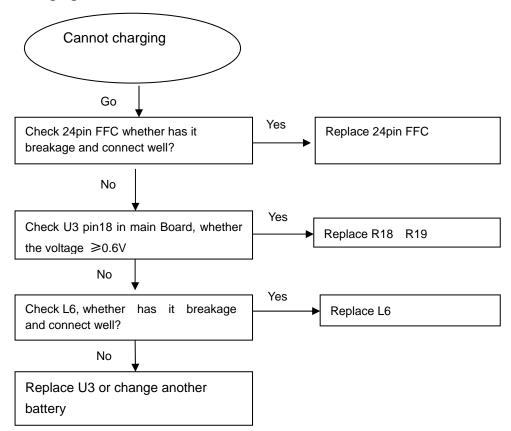
Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60Hz outlet and turn the AC power switch on. Any current measured must not exceed o.5mA.



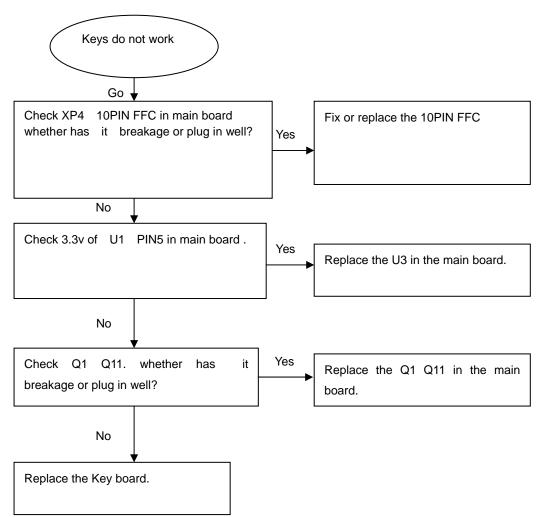
AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

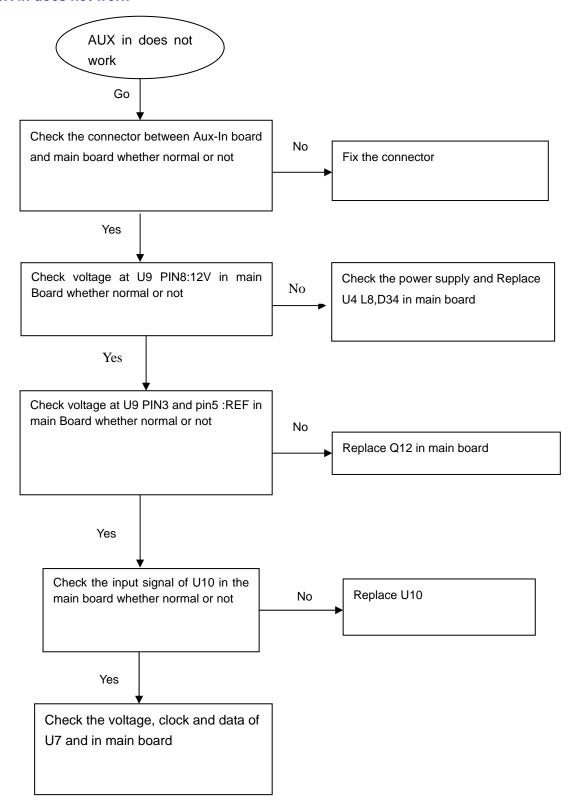
Cannot charging



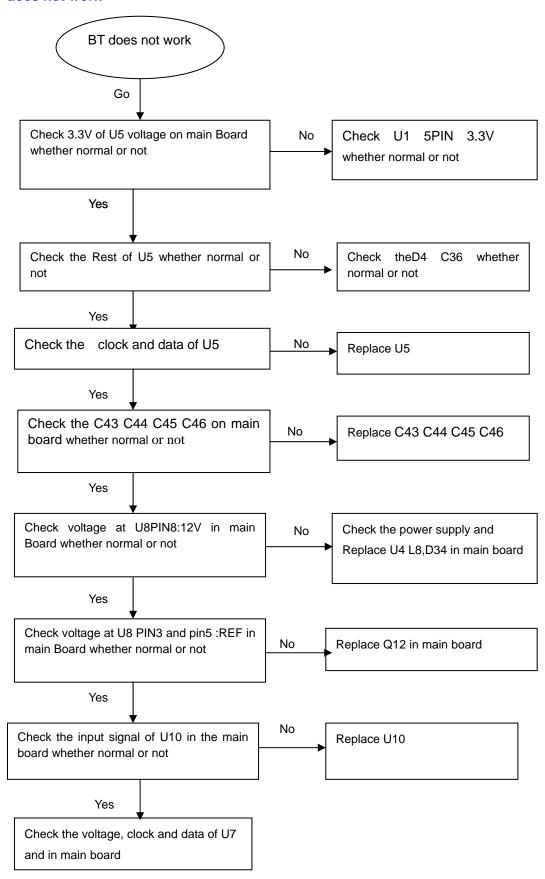
keys do not work



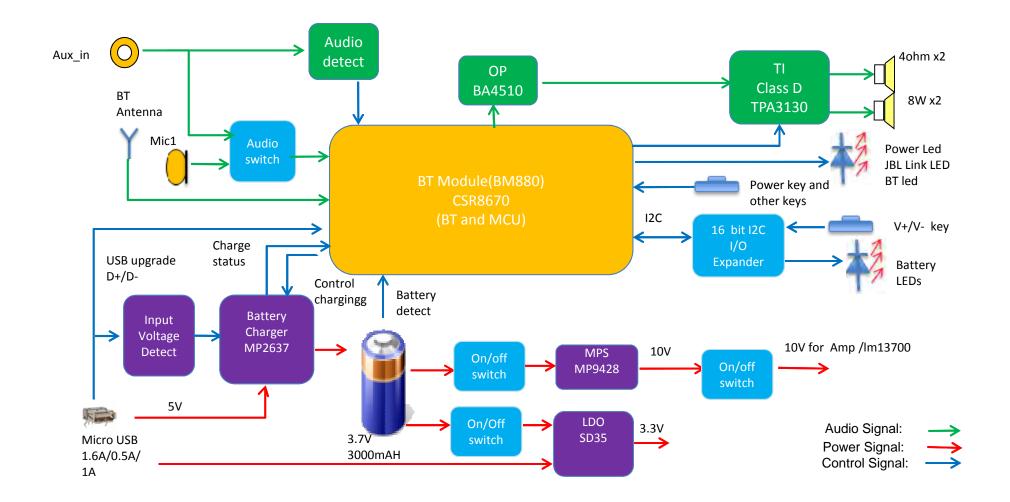
AUX in does not work



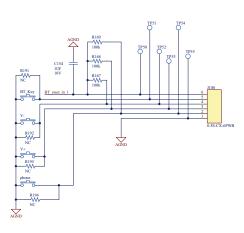
BT does not work



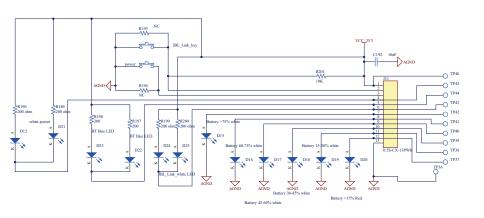
Set Block Diagram

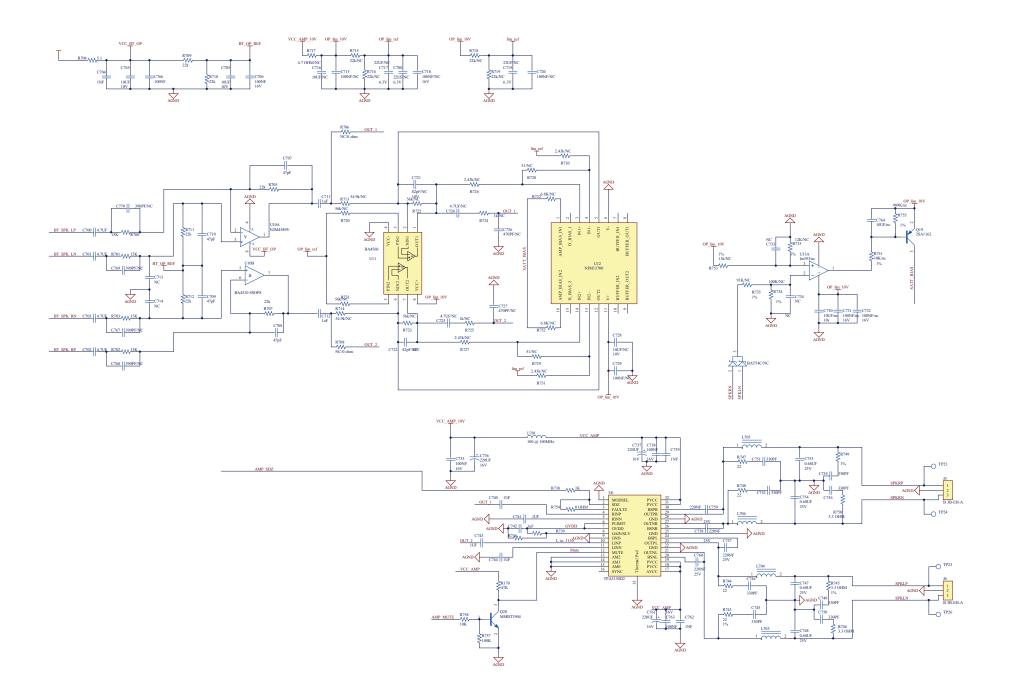


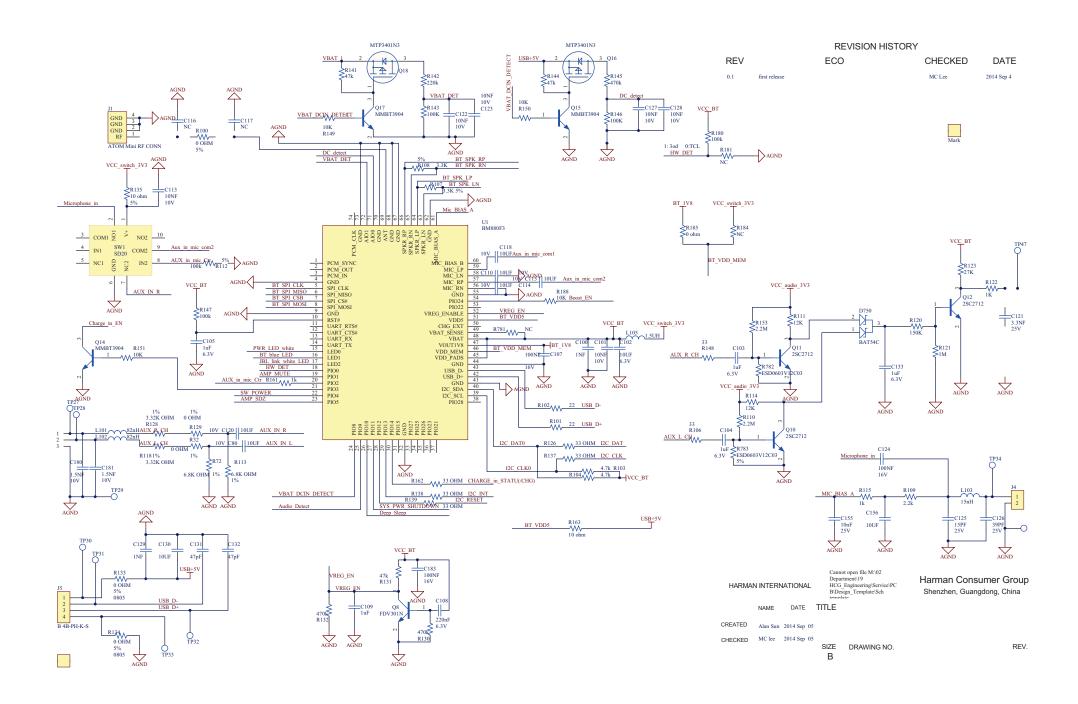
Key Board Circuit Diagram:

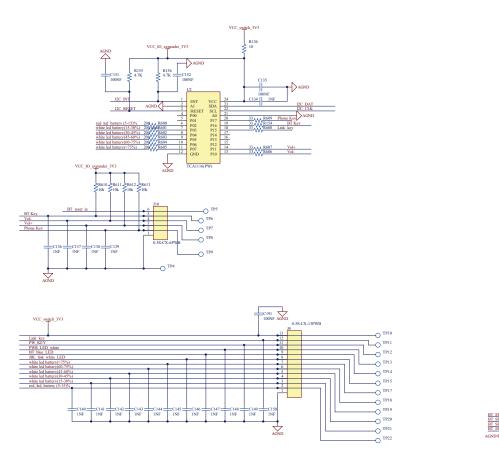


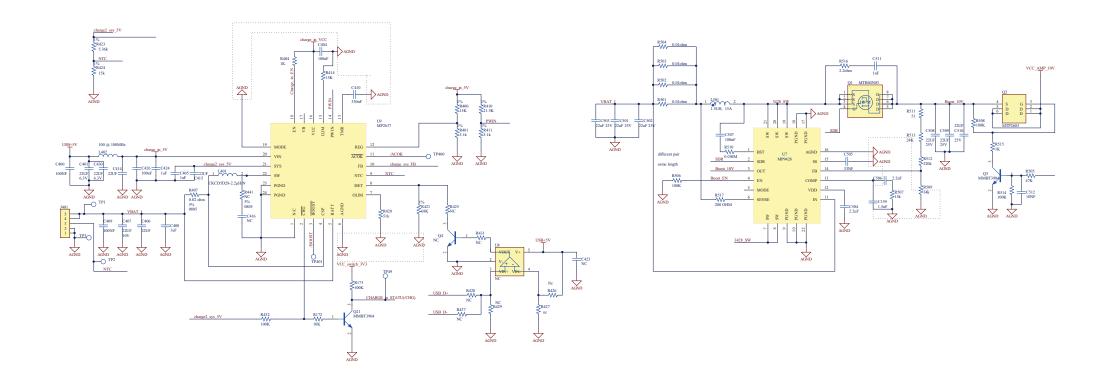
LED Circuit Diagram:

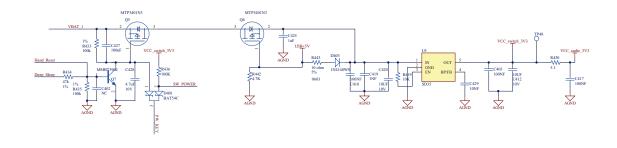


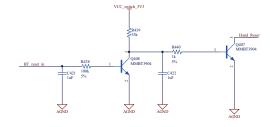




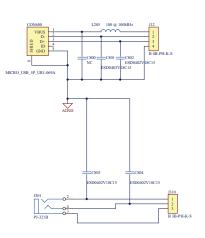




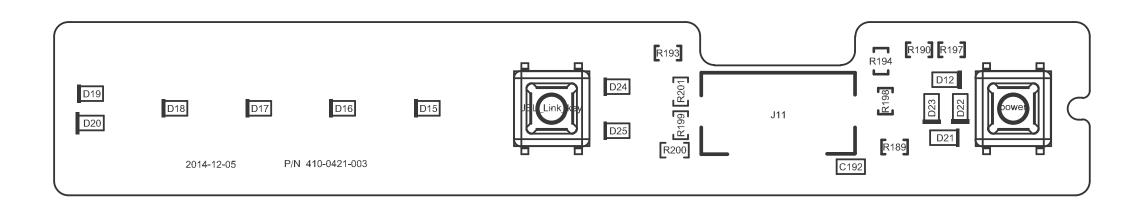




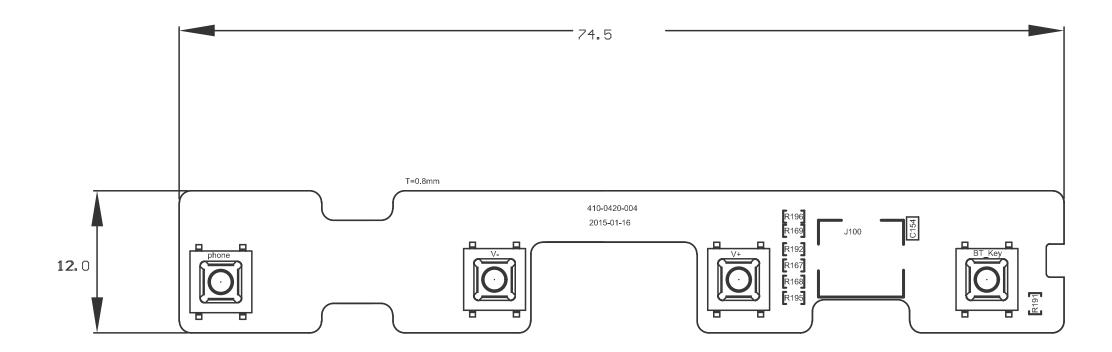
USB Board Print-layout:

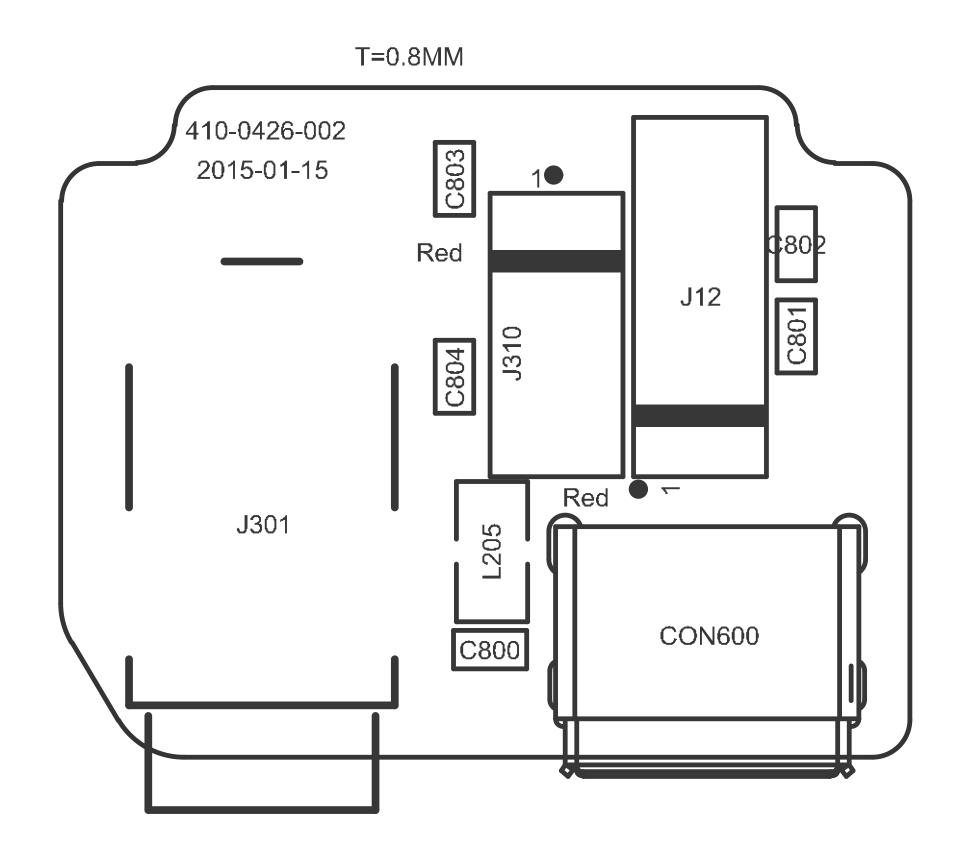


LED Board Print-layout:

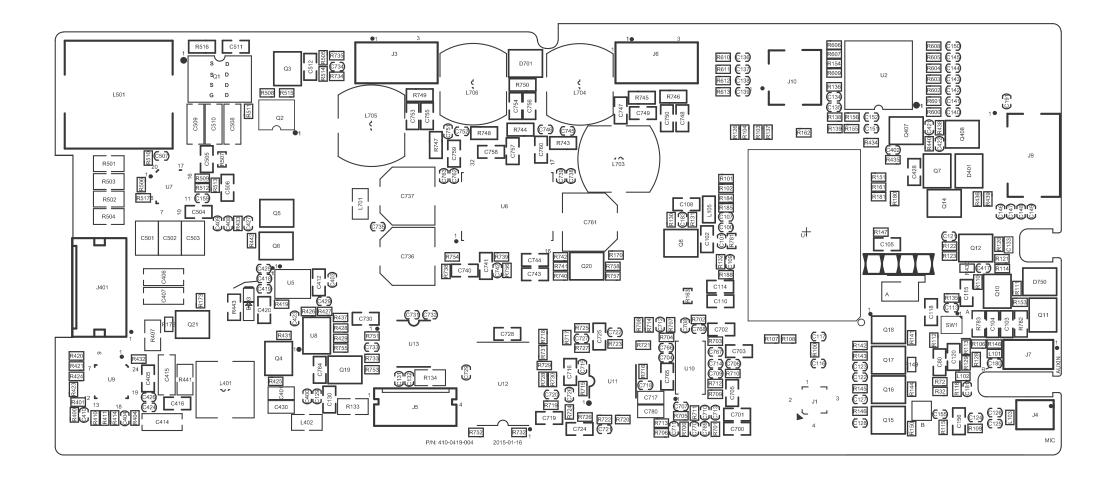


KEY Board Print-layout:



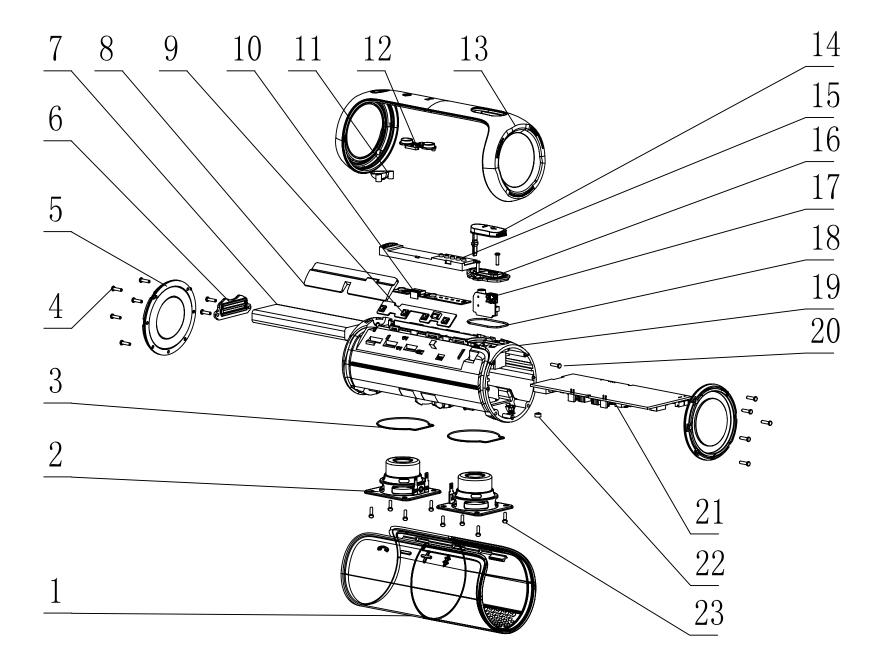


Main Board Print-layout:



C

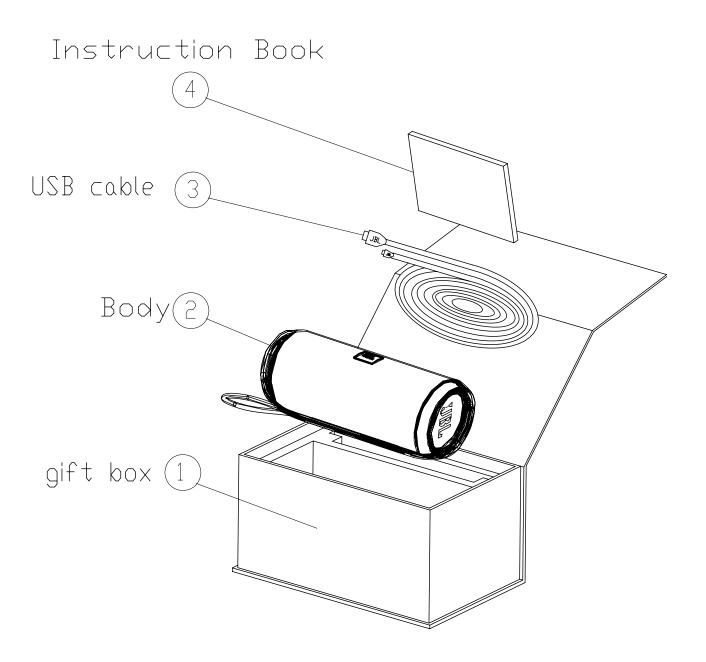
Mechanical Exploded View:



For spare parts numbers for outer grille #1, please refer to Spare Parts List below, page 29.

Part Number List for the Exploded View

| No. | Description | Part Number | Remarks |
|-----|--|------------------|---------|
| 2 | 1.5" full range Speaker | 42-015008-04001 | |
| 5 | Passive Radiator | 54-NE0590-00001 | |
| 6 | battery cover assy | 02-FLP3D1-0HA | |
| 7 | Li-ion polymer Battery 3.7V 3000mAh | 49-373000-BAT5-M | |
| 9 | KEY Board | 08-WB702U-KY0 | |
| 10 | LED Board | 08-WB702U-FE0 | |
| 13 | Main Stand | 55-FLP3H1-0UHB2 | |
| 14 | USB Cover | 55-FLP3C1-0UHB2 | |
| 16 | USB Bracket | 56-FLP3H4-0HAB2 | |
| 17 | USB Board | 08-WB702U-IN0 | |
| 19 | Main Body | 55-FLP3I1-0UH | |
| 21 | Main Board | 08-WB702U-MA0 | |
| 22 | MIC Φ4.0/2pin JST 1.5mm IP5X water resistant | 02-MIC025-XX0 | |



Spare Parts List

| Spare | Spare Parts List 11 | | | |
|--------------|----------------------|------------------------------------|--|-----|
| Level | Pos. No. | Part Number | Description | QTY |
| 01 | 5 | 54-NE0590-00001 | Passive Radiator (Left) Flip3 TL | 1 |
| 01 | 5 | 54-NE0590-00001 | Passive Radiator (Right) Flip3 TL | 1 |
| 01 | 6 | 02-FLP3D1-0HA | Battery cover ass'y FLIP3 TL | 1 |
| 01 | 22 | 02-MIC025-XX0 | MIC D4.0/2pin JST 1.5mm FLIP3 TL | 1 |
| 002 | U1 | 07-BTM880-00A | Bluetooth Module BM880F3 FLIP3 TL | 1 |
| 01 | 10 | 08-WB702U-FE0 | LED Board FLIP3 TL | 1 |
| 01 | 17 | 08-WB702U-IN0 | USB Board FLIP3 TL | 1 |
| 01 | 9 | 08-WB702U-KY0 | KEY Board FLIP3 TL | 1 |
| 01 | 21 | 08-WB702U-MA0 | Main Board FLIP3 TL | 1 |
| 002 | U10 | 13-BA4510-FVS2 | IC BA4510FV SSOP-B8 operational amplifier FLIP3 TL | 1 |
| 002 | R782,R783 | 13-ESDV12-C033 | ESD Suppressor ESD0603V12C03 FLIP3 TL | 2 |
| 002 | U9 | 13-MP2637-QFN3 | IC MP2637 QFN-24 BATTERY CHARGER FLIP3 TL | 1 |
| 002 | U7 | 13-MP9428-QFN3 | IC MP9428 QFN-22 BOOST FLIP3 TL | 1 |
| 002 | SW1 | 13-SD20TR-UTQ3 | IC SD20/TR UTQFN-1.8×1.4-10L SWITCH FLIP3 TL | 1 |
| 002 | U5 | 13-SD35TR-0003 | IC SD35/TR 3.3V SOT23-5 LDO FLIP3 TL | 1 |
| 002 | U2 | 13-TCA111-6TS3 | TCA1116 TSSOP24 16-BIT I2C I/O EXPANDER FLIP3 TL | 1 |
| 002 | U6 | 13-TPA313-0D22 | IC TPA3130D2(DAP) SOP32 AMP FLIP3 TL | 1 |
| 01 | cable | 41-USB1000-UMC | Cable 1M USB to Micro orange Type-C FLIP3 TL | 1 |
| 01 | 2 | 42-015008-04001 | Speaker Unit 1.5" full range FLIP3 TL | 2 |
| 01 | BT Antenna | 47-ANT136-XX0 | BT Antenna WA-F-LA-03-113 FLIP3 TL | 1 |
| 01 | 7 | 49-373000-BAT5-M | Li-ion polymer battery 3.7V 3000mAh FLIP3 TL | 1 |
| 01 | 14 | 55-FLP3C1-0UHB1 | USB cover Flip3 TL BLK | 1 |
| 01 | 14 | 55-FLP3C1-0UHB2 | USB cover Flip3 TL Gry | 1 |
| 01 | 14 | 55-FLP3C1-0UHB3 | USB cover Flip3 TL ORG | 1 |
| 01 | 14 | 55-FLP3C1-0UHB4 | USB cover Flip3 TL Red | 1 |
| 01 | 14 | 55-FLP3C1-0UHB5 | USB cover Flip3 TL Pink | 1 |
| 01 | 14 | 55-FLP3C1-0UHB6 | USB cover Flip3 TL BLU | 1 |
| 01 | 14 | 55-FLP3C1-0UHB7 | USB cover Flip3 TL Yel | 1 |
| 01 | 14 | 55-FLP3C1-0UHB8 | USB cover Flip3 TL Tea | 1 |
| 01 | 13 | 55-FLP3H1-0UHB1 | Main Stand Flip3 TL BLK | 1 |
| 01 | 13 | 55-FLP3H1-0UHB2 | Main Stand Flip3 TL Gry | 1 |
| 01 | 13 | | Main Stand Flip3 TL ORG | 1 |
| 01 | 13 | | Main Stand Flip3 TL Red | 1 |
| 01 | 13 | | Main Stand Flip3 TL Pink | 1 |
| 01 | 13 | 55-FLP3H1-0UHB6 | Main Stand Flip3 TL BLU | 1 |
| 01 | 13 | 55-FLP3H1-0UHB7 | Main Stand Flip3 TL Yel | 1 |
| 01 | 13 | 55-FLP3H1-0UHB8 | | 1 |
| 01 | 19 | 55-FLP3I1-0UH | Main Body Flip3 TL | 1 |
| 01 | 16 | 56-FLP3H4-0HAB1 | USB Bracket Flip3 TL BLK | 1 |
| 01 | 16 | 56-FLP3H4-0HAB2 | USB Bracket Flip3 TL Gry | 1 |
| 01 | 16 | 56-FLP3H4-0HAB3 | USB Bracket Flip3 TL ORG | 1 |
| 01 | 16 | 56-FLP3H4-0HAB4 | USB Bracket Flip3 TL Red | 1 |
| 01 | 16 | 56-FLP3H4-0HAB5 | USB Bracket Flip3 TL Pink | 1 |
| 01 | 16 | 56-FLP3H4-0HAB6 | USB Bracket Flip3 TL BLU | 1 |
| 01 | 16 | 56-FLP3H4-0HAB7 | USB Bracket Flip3 TL Yel | 1 |
| 01 | 16 | 56-FLP3H4-0HAB8 | USB Bracket Flip3 TL Tea | 1 |
| 01 | gift box | 76-195240-0ATC1 | Gift Box Flip3 TL BLK | 1 |
| 01 01 | gift box | 76-195240-0ATC2 | Gift Box Flip3 TL OPG | 1 |
| 01 | gift box gift box | 76-195240-0ATC3 | Gift Box Flip3 TL ORG | 1 |
| 01 | ŭ | 76-195240-0ATC4 76-195240-0ATC5 | Gift Box Flip3 TL Red | 1 |
| 01 | gift box | 76-195240-0ATC5 76-195240-0ATC6 | Gift Box Flip3 TL PINk | 1 |
| 01 | gift box gift box | 76-195240-0ATC7 | Gift Box Flip3 TL BLU Gift Box Flip3 TL Yel | 1 |
| 01 | gift box | 76-195240-0ATC8 | Gift Box Flip3 TL Tea | 1 |
| 01 | carton box | 76-195250-0ATB1 | Carton Box Flip3 TL | 1 |
| 01 | 1 | 02-FLP3H2-XX2B1 | Grille assy Flip3 TL BLK | 1 |
| 01 | 1 | 02-FLP3H2-XX0B2 | Grille assy Flip3 TL Gry | 1 |
| 01 | 1 | 02-FLP3H2-XX0B3 | Grille assy Flip3 TL ORG | 1 |
| 01 | 1 | 02-FLP3H2-XX0B4 | Grille assy Flip3 TL Red | 1 |
| 01 | 1 | 02-FLP3H2-XX0B5 | Grille assy Flip3 TL Pink | 1 |
| 01 | 1 | 02-FLP3H2-XX0B6 | Grille assy Flip3 TL BLU | 1 |
| 01 | 1 | 02-FLP3H2-XX0B7 | Grille assy Flip3 TL Yel | 1 |
| 01 | 1 | 02-FLP3H2-XX0B8 | Grille assy Flip3 TL Tea | 1 |
| <u> </u> | | | 1 | |

Revision List

Version 1.0

* Initial Release for JBL FLIP3.

Version 1.1

* Add Grille Ass'y in Spare Part List.