Better sound through research®

# Bose® SoundLink® Mini
## Bluetooth® Speaker II



**Service Manual**

Reference Number 725192-SM
REV 12

# Contents

# PRODUCT DESCRIPTON

The Bose® SoundLink® Mini Bluetooth® speaker II is a one-piece, ultra-compact, battery-powered Bluetooth speaker. It delivers full, deep sound that's unexpected from a mobile speaker that fits in the palm of your hand. Its ability to connect wirelessly to Bluetooth enabled audio devices, combined with its size, allows you to enjoy your music, videos or games almost anywhere. It’s engineered with a solid aluminum chassis that contributes to the sound while providing the durability to withstand the rigors of everyday use. The included charging cradle provides a home base to keep it charged so it’s ready and able to go just about anywhere with you. The SoundLink Mini II has a built-in speakerphone, so you can enjoy the same clear sound for out-loud calls. And voice prompts talk you through Bluetooth pairing, so wirelessly connecting to your music is easier than ever.

The SoundLink Mini Bluetooth speaker II uses many proprietary Bose acoustic, mechanical and electrical technologies. Most prominent are two compact transducers specifically designed with unusually high cone displacement for exceptional sound output relative to their size. In addition, dual opposing passive radiators allow the SoundLink Mini Bluetooth speaker II to deliver high-quality low-note performance from a small enclosure. With the radiators placed symmetrically opposite each other, the SoundLink Mini Bluetooth speaker II reduces unwanted and wasteful vibration, turning that energy instead into acoustic output. The unique, patented shape of the radiator surrounds also produce performance beyond most competitive products. Together, these technologies allow the SoundLink Mini Bluetooth speaker II to produce surprisingly full and deep sound from a speaker that fits in the palm of your hand. The speaker also uses voice prompts that walk the user through Bluetooth pairing, so connection management of Bluetooth enabled devices is easier than ever.

- Speakerphone feature – including mic
- USB charging - New battery charger IC, Rohm BD8665
- Voice prompts – similar to SoundLink Color
- No AUX button – relies on AUX sensing
- Updated BT processor – 8670 – same as SoundLink Color
- Custom battery pack, based on SoundLink Mini Palladium architecture, with 4 conductor ribbon cable to connect to boost board.
- Boost circuit – redesigned for Boost-on-Demand feature to save battery life
- New external power supply and charging cradle
- Mechanical parts – grilles with scrim, new rear grille gasket with mic port, housing finish and machining changes, color changes, new keypad and topcap
- Two system color schemes

# ELECTROSTATIC DISCHARGE SENSITIVE (ESDS) DEVICE HANDLING

This unit contains ESDS devices. We recommend the following precautions when repairing, replacing or transporting ESDS devices:

- Perform work at an electrically grounded work station.
- Wear wrist straps that connect to the station or heel straps that connect to conductive floor mats.
- Avoid touching the leads or contacts of ESDS devices or PC boards even if properly grounded. Handle boards by the edges only.
- Transport or store ESDS devices in ESD protective bags, bins, or totes. Do not insert unprotected devices into materials such as plastic, polystyrene foam, clear plastic bags,

# WARRANTY

The Bose® SoundLink® Mini Bluetooth® speaker II is covered by a limited 1-year transferable warranty. 2 years in Europe.

# PART LIST NOTES

1. The individual parts located on the PCBs are listed in the Electrical Part List.

2. This part is referenced for informational purposes only. It is not stocked as a repair part. Refer to the next higher assembly for a replacement part.

3.  This part is critical for safety purposes. Failure to use a substitute replacement with the same safety characteristics as the recommended replacement part might create shock, fire and/or other hazards.

# PACKAGING PART LIST, SOUNDLINK MINI II

(See Figure 1)

| Item | Description | Material Number | Note |
|---|---|---|---|
| 1 | PACKING, RIGID, BOX, 8.94X4.46X4.81IN, BLK | 730349-0010 | |
| 2 | PACKING, PAD, CORR, 8.75X4.25IN.275C, WHT | 730362-0010 | |
| 3 | PACKING, INSERT, DC, 14.38X10.5IN, 275C, WHT | 730355-0010 | |
| 4 | TRAY, THERMO, BLK, HIPS, 60GA, 12.8X4.3X2.5IN | 730342-0010 | |
| 5 | BAG, POLY, BOPP, 9”X3.31”X1.5MIL | 369909-0010 | |
| 6 | CARTON, DC, 4.31X1.5X6.31IN, 24PT, SLMI, ACCY | 629148-0010 | |
| 7 | GLOBAL WARRANTY CARD, 1 YR. | 324486-0010 | AUS/NZ |
| 8 | LETTER, COMMITMENT | 343108-0010 | |
| 9 | GLOBAL WARRANTY CARD, 1 YR. | 324486-0010 | |
| | SOUNDLINK, COLOUR, CHINA, WARRANTY CARD | 732263-0010 | |
| 10 | QSG, SL, MINI, BT, SPKR, II, US/MX/JP | 730350-0010 | US/MX/JP |
| | QSG,SL, MINI, BT, SPKR, II, EU1 | 730350-0020 | EU/UK |
| | QSG, SL, MINI, BT, SPKR, II, EU2 | 730350-0030 | EU/UK |
| | QSG,SL, MINI, BT, SPKR, II, EU3 | 730350-0040 | EU/UK |
| | QSG, SL, MINI, BT, SPKR, II, EU4 | 730350-0050 | EU/UK |
| | QSG, SL, MINI, BT, SPKR, II, APAC | 730350-0060 | APAC |
| 11 | SAFETY, SHEET, SL, MINI, BT, SPKR, II | 741810-0010 | 3 ⚠ |
| 13 | CHARGING CRADLE, WHT<br><br>CHARGING CRADLE, BLK | 725267-0020<br><br>725267-0010 | |
| 14 | POWER SUPPLY, EXT WALL, 5V, 8W, USB, US, BLACK | 722809-0010 | 3 ⚠ |
| | POWER SUPPLY, EXT WALL, 5V, 8W, USB, US, WHITE | 722809-0011 | |
| | POWER SUPPLY, EXT WALL, 5V, 8W, USB, WW, WHITE | 722809-0021 or 722809-0031 | |
| | POWER SUPPLY, EXT WALL, 5V, 8W, USB, WW, BLACK | 722809-0020 or 722809-0030 | |
| 15 | PACKING, FOAM, CLPE, BLK, DC, 8.63X4.38X.12IN | 730343-0010 | |
| 16 | PACKING, INSERT, DC, 14.13X10.5IN, 275C, WHT | 730355-0010 | |
| 17 | PACKING, SLEEVE, SLMI2, US/MEX/JP, BLK | 730346-0010 | US/JAP/CN |
| | PACKING, SLEEVE, SLMI2, US/MEX/JP, WHT | 730346-0020 | US/JAP/CN |
| | PACKING, SLEEVE, SLMI2, EU1, BLK | 730346-0030 | EU1 |
| | PACKING, SLEEVE, SLMI2, EU1, WHT | 730346-0040 | EU1 |
| | PACKING, SLEEVE, SLMI2, EU2, BLK | 730346-0050 | EU2 |
| | PACKING, SLEEVE, SLMI2, EU2, WHT | 730346-0060 | EU2 |
| | PACKING, SLEEVE, SLMI2, EU3, BLK | 730346-0070 | EU3 |
| | PACKING, SLEEVE, SLMI2, EU3, WHT | 730346-0080 | EU3 |
| | PACKING, SLEEVE, SLMI2, EU4, BLK | 730346-0090 | EU4 |
| | PACKING, SLEEVE, SLMI2, EU4, WHT | 730346-0100 | EU4 |
| | PACKING, SLEEVE, SLMI2, APAC, WHT | 737381-0020 | |
| | PACKING, SLEEVE, SLM2, APAC, BLK | 737381-0010 | |

| | | | |
|---|---|---|---|
| 18 | KIT, POWER ADAPTERS, APAC, CARBON | 738691-0010 | APAC |
| | KIT, POWER ADAPTERS, APAC, PEARL | 738691-0020 | 3 ⚠ |
| **Item** | **Description** | **Material Number** | **Note** |
| - | BAG, SHRINK, 14.25X12IN, 100GA, PRE-PERFORATED | 730366-0010 | US/JAP/CN |
| | BAG, SHRINK, 16.75X12IN, 100GA, PRE-PERFORATD | 739943-0010 | EU/UK/APAC |
| - | CARTON, FOL, 5.13X4.81X9.31IN, 275C, KRAFT<br><br>(OVER PACK CARTON FOR SHIPPING SINGLE WITHOUT CLIP CARTON) | 371649-0010 | US/JAP/CN |
| - | CARTON, FOL, 5.13X4.81X11.5IN, 275C, KRAFT<br><br>(OVER PACK CARTON FOR SHIPPING SINGLE WITH CLIP KIT CARTON) | 372532-0010 | EU/UK/APAC |
| | CABLE, USB A TO MICRO B, 1.0M, 22AWG, BLACK | 743203-102210 | 3 ⚠ |
| | CABLE, USB A TO MICRO B, 1.0M, 22AWG, IVOR | 743203-102220 | |

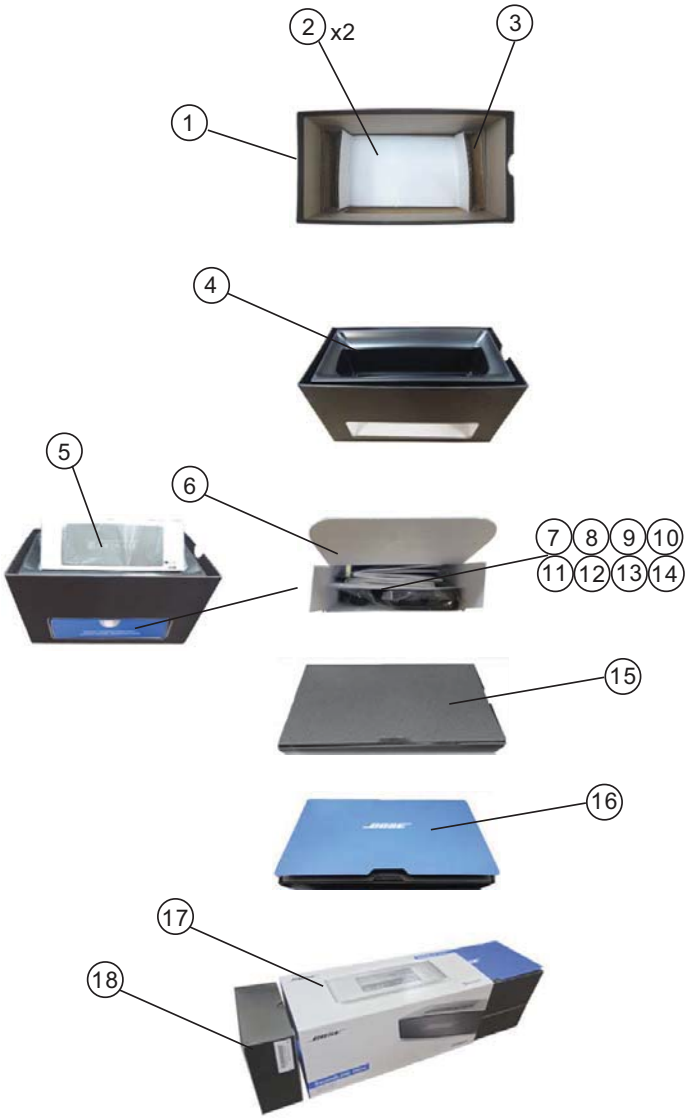



Figure 1. SoundLink Mini II, Packaging View

# MAIN PART LIST, SOUNDLINK MINI II

(See Figure 2)

| Item | Description | Material Number | QTY | Note |
|---|---|---|---|---|
| 1 | GASKET, GRILLE, FRONT, NG5 | 626978-0020 | 1 | |
| 2 | ADHESIVE STRIP, DIE CUT, GRILLE | 729681-0010 | 2 | |
| 3 | SCREW, THRDROLL, 2-56X3/8, PAN, TORX | 360575-006 | 8 | |
| 4 | BAFFLE, FRONT | 357404-0020 | 1 | 3 ⚠ |
| 5 | PASSIVE RADIATOR | 357793-0010 | 1 | |
| 6 | TWID ASSY, 39.5OD, REVOLVER, SuFREE SRND | 360563-0040 | 2 | 3 ⚠ |
| 7 | SCREW, THD FRM, 2-28X1/4, PAN | 289396-004 | 4 | |
| 8 | PCB ASSY, SOUNDLINK MINI BT 2, BOOST, SVCE | 716536-002S | 1 | |
| 9 | KEYPAD, 5 POSITION, NG4 | 727755-0020 | 1 | |
| | KEYPAD, 5 POSITION, BLACK | 727755-0010 | 1 | |
| 10 | CAP, TOP, NG4 | 757367-0020 | 1 | |
| | CAP, TOP, BLACK | 757367-0010 | 1 | |
| 11 | ADHESIVE, DIE CUT, TOP CAP | 729581-0010 | 1 | |
| 12 | GASKET, MAIN PCB | 730114-0020 | 1 | |
| 13 | PCB ASSY, KCUP, AMP, SVCE | 716527-002S | 1 | 3 ⚠ |
| 14 | SCREW, THRDROLL, 2-56X3/8, PAN, TORX | 360575-006 | 4 | |
| 15 | ADHESIVE STRIP, DIE CUT, GRILLE | 729681-0010 | 2 | |
| 16 | GASKET, GRILLE, REAR, NG 5 | 729899-0020 | 1 | 3, ⚠ |
| 17 | REAR GRILLE, BLK, SL MINI II, SNGL, SERV | 357407-002S | 1 | |
| | REAR GRILLE, NG3, SL MINI II, SNGL, SERV | 357407-003S | 1 | |
| | REAR GRILLE, BLK, SL MINI II, BULK, **400 per carton** | 357407-0020 | | |
| | REAR GRILLE, NG3, SL MINI II, BULK, **400 per carton** | 357407-0030 | | |
| 18 | FILTER, MICROPHONE, 8MM OD (use gloves to handle, see page 33 for details) | 744588-0010 | 1 | |
| 19 | SCREW, THRDROLL, 2-56X5/8, PAN, TORX | 360575-010 | 4 | |
| 20 | PCB ASSY, SOUNDLINK MINI BT 2, IO, SVCE (does not include mic filter, item 18) | 716544-002S | 1 | |
| 21 | BAFFLE, REAR | 357405-0020 | 1 | 3 ⚠ |
| 22 | PASSIVE RADIATOR | 357793-0010 | 1 | |
| 23 | SCREW, THD FRM, 2-28X1/4, PAN | 289396-004 | 4 | |
| 24 | SLAB ASSY, SOUNDLINK MINI BT 2, MAIN, SVCE | 716517-004S or 755974-002S | 1 | 3 ⚠ |
| 25 | GROMMET, FFC, MOLDED | 361348-0010 | 1 | |
| 26 | CABLE, FFC, 0.5mm, 34COND | 357413-0010 | 1 | |
| 27 | ENCLOSURE, EXTRUSION, CARBON | 732932-0020 | 1 | 3 ⚠ |
| | ENCLOSURE, EXTRUSION, CLEAR | 732932-0010 | 1 | |
| 28 | HARNESS, XDUCER | 357412-0010 | 1 | |
| 29 | BATTERY PACK, LI-ION, 2CELL, 2SIP | 724056-0010 | 1 | |
| 30 | *FOOT, SILICONE, NG7<br>*FOOT, SILICONE, NG7, APAC | *756361-0010<br>*756361-0040 | 1 | |
| 31 | SCREW, THRDROLL, 2-56X1/4, PAN, TORX | 360575-004 | 1 | |
| 32 | FRONT GRILLE, BLK, SL MINI II, SNGL, SERV | 730209-001S | 1 | 3 ⚠ |
| | FRONT GRILLE, WHT, SL MINI II, SNGL, SERV | 730209-002S | 1 | |
| | FRONT GRILLE, BLK, SL MINI II, BULK, **400 per carton** | 730209-0010 | | |
| | FRONT GRILLE, NG3, SL MINI II, BULK, **400 per carton** | 730209-0020 | | |

| | | | | |
|---|---|---|---|---|
| 33 | TAPE, FOAM | 373978-0010 | 1 | |
| - | VELCRO, 6MMX78MM, BLK (Use when replacing the Main board - see service bulletin 725192-B2) | 638167-1078 | 1 | |

*The replacement foot/battery cover does not have a serial number printed on it. Print the serial number on a small label and install on the unit above the foot. See Figure 2 on next page.

# EXPLODED VIEW

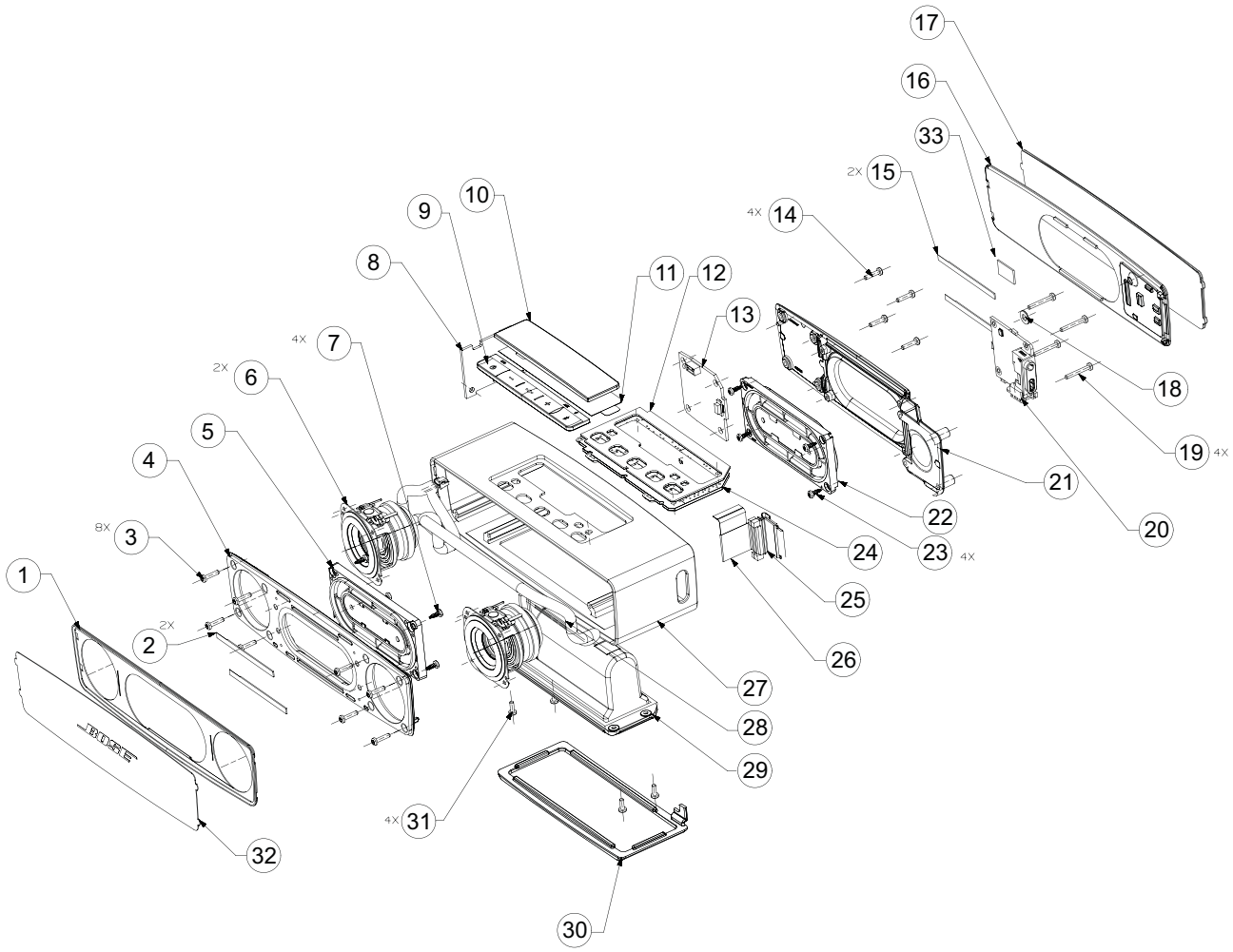
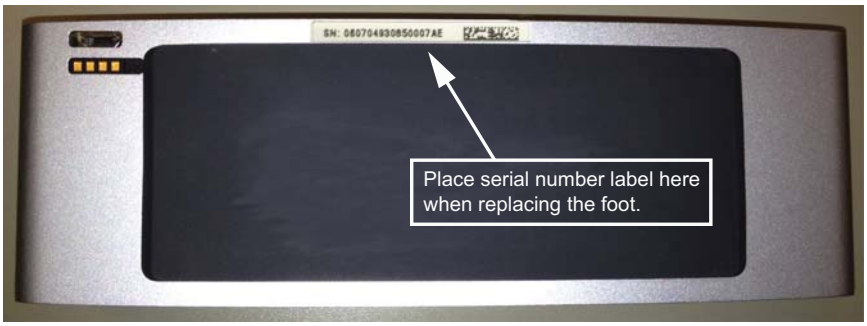



Figure 2. SoundLink Mini II Main Assembly, Exploded View




SoundLink Mini II Serial Number Placement (when replacing the foot)

# ELECTRICAL PARTS LIST

Main PCB
Resistors

| Reference Designator | Description | Material Number | Note |
|---|---|---|---|
| R204 | RES, 0402, 63MW, 1%, 100 OHM | 268361-1000 | |
| R205 | RES, 0402, 63MW, 1%, 100 OHM | 268361-1000 | |
| R209 | RES, 0402, 63MW, 1%, 4.99K | 268361-4991 | |
| R211 | RES, 0402, 0.063W, 1%, 30.1 OHMS | 268361-30R1 | |
| R212 | RES, 0402, 0.063W, 1%, 30.1 OHMS | 268361-30R1 | |
| R213 | RES, 0402, 0.063W, 1%, 30.1 OHMS | 268361-30R1 | |
| R214 | RES, 0402, 0.063W, 1%, 30.1 OHMS | 268361-30R1 | |
| R215 | JUMPER, 0402, 0 OHM | 280043 | |
| R216 | JUMPER, 0402, 0 OHM | 280043 | |
| R217 | JUMPER, 0402, 0 OHM | 280043 | |
| R218 | JUMPER, 0402, 0 OHM | 280043 | |
| R219 | JUMPER, 0402, 0 OHM | 280043 | |
| R220 | JUMPER, 0402, 0 OHM | 280043 | |
| R221 | RES, 0402, 63MW, 1%, 4.99K | 268361-4991 | |
| R223 | RES, 0402, 63MW, 1%, 4.99K | 268361-4991 | |
| R224 | JUMPER, 0402, 0 OHM | 280043 | |
| R225 | JUMPER, 0402, 0 OHM | 280043 | |
| R226 | JUMPER, 0402, 0 OHM | 280043 | |
| R301 | RES, 0402, 63MW, 1%, 1K | 268361-1001 | |
| R303 | JUMPER, 0402, 0 OHM | 280043 | |
| R304 | RES, 0402, 63MW, 1%, 100 OHM | 268361-1000 | |
| R305 | RES, 0402, 63MW, 1%, 100 OHM | 268361-1000 | |
| R306 | RES, 0402, 63MW, 1%, 4.99K | 268361-4991 | |
| R307 | RES, 0402, 63MW, 1%, 4.99K | 268361-4991 | |
| R401 | RES, 0805, .125W, 1%, 3.48K | 133625-3481 | |
| R402 | RES, 0805, .125W, 1%, 3.48K | 133625-3481 | |
| R403 | RES, 0402, 63MW, 1%, 249 OHM | 268361-2490 | |
| R404 | RES, 0402, 63MW, 1%, 249 OHM | 268361-2490 | |
| R405 | RES, 0402, 63MW, 1%, 249 OHM | 268361-2490 | |
| R406 | RES, 0402, 63MW, 1%, 249 OHM | 268361-2490 | |
| R409 | RES, 0402, 63MW, 1%, 1K | 268361-1001 | |
| R410 | RES, 0805, .125W, 1%, 475 | 133625-4750 | |
| R411 | RES, 0805, .125W, 1%, 475 | 133625-4750 | |
| R412 | RES, 0402, 63MW, 1%, 3.74 KOHM | 268361-3741 | |
| R413 | RES, 0402, 63MW, 1%, 3.74 KOHM | 268361-3741 | |
| R414 | RES, 0402, 63MW, 1%, 3.74 KOHM | 268361-3741 | |
| R415 | RES, 0402, 63MW, 1%, 3.74 KOHM | 268361-3741 | |
| R416 | RES, 0402, 63MW, 1%, 100 OHM | 268361-1000 | |
| R417 | RES, 0402, 63MW, 1%, 100 OHM | 268361-1000 | |
| R503 | RES, 0402, 0.063W, 1%, 46.4K | 268361-4642 | |
| R504 | RES, 0402, 63MW, 1%, 200 OHM | 268361-200R | |
| R505 | RES, 0402, 0.063W, 1%, 46.4K | 268361-4642 | |

# ELECTRICAL PART LIST

Main PCB

Resistors (continued)

| Reference Designator | Description | Material Number | Note |
|---|---|---|---|
| R506 | RES, 0402, 63MW, 1%, 1K | 268361-1001 | |
| R507 | RES, 0603, .1W, 1%, 1 OHM | 191465-01R0 | |
| R508 | RES, 0603, .1W, 1%, 1 OHM | 191465-01R0 | |
| R509 | RES, 0603, .1W, 1%, 1 OHM | 191465-01R0 | |
| R510 | RES, 0603, .1W, 1%, 1 OHM | 191465-01R0 | |
| R511 | RES, 0603, .1W, 1%, 1 OHM | 191465-01R0 | |
| R512 | RES, 0603, .1W, 1%, 1 OHM | 191465-01R0 | |
| R513 | RES, 0603, .1W, 1%, 1 OHM | 191465-01R0 | |
| R514 | RES, 0603, .1W, 1%, 1 OHM | 191465-01R0 | |
| R515 | RES, 0603, .1W, 1%, 1 OHM | 191465-01R0 | |
| R516 | RES, 0603, .1W, 1%, 1 OHM | 191465-01R0 | |
| R517 | RES, 0402, 63mw, 1%, 2.49K | 268361-2491 | |
| R518 | RES, 0402, 63MW, 1%, 100K | 268361-1003 | |
| R519 | RES, 0402, 63MW, 1%, 1K | 268361-1001 | |
| R520 | RES, 0402, 63MW, 1%, 49.9 OHM | 268361-49R9 | |
| R521 | RES, 0402, 63MW, 1%, 100K | 268361-1003 | |
| R522 | RES, 0603, .1W, 1%, 150 OHMS | 191465-1500 | |
| R523 | RES, 0603, .1W, 1%, 150 OHMS | 191465-1500 | |
| R524 | RES, 0603, .1W, 1%, 150 OHMS | 191465-1500 | |
| R525 | RES, 0603, .1W, 1%, 150 OHMS | 191465-1500 | |
| R526 | RES, 0603, .1W, 1%, 150 OHMS | 191465-1500 | |
| R527 | RES, 0402, 63MW, 1%, 100K | 268361-1003 | |
| R528 | RES, 0402, 63MW, 1%, 2.21K | 268361-2211 | |
| R531 | RES, 0603, .1W, 1%, 1 OHM | 191465-01R0 | |
| R602 | RES, 0402, 63MW, 1%, 100K | 268361-1003 | |
| R603 | RES, 0402, 63MW, 1%, 10K | 268361-1002 | |
| R604 | RES, 0402, 0.063W, 1%, 332K | 268361-3323 | |
| R605 | RES, 0402, 63MW, 1%, 100K | 268361-1003 | |
| R701 | RES, 0402, 0.063W, 1%, 681K | 268361-6813 | |
| R702 | RES, 0402, 63MW, 1%, 1K | 268361-1001 | |
| R703 | RES, 0402, 63MW, 1%, 4.99K | 268361-4992 | |
| R704 | RES, 0402, 63MW, 1%, 64.9K | 268361-6492 | |
| R705 | RES, 0402, 63MW, 1%, 49.9K | 268361-4992 | |
| R706 | RES, 0402, 63MW, 1%, 64.9K | 268361-6492 | |
| R707 | RES, 0402, 63MW, 1%, 499 | 268361-499R | |
| R708 | RES, 0402, 63MW, 1%, 499 | 268361-499R | |
| R709 | RES, 0402, 0.063W, 1%, 30.1 OHMS | 268361-30R1 | |
| R710 | RES, 0402, 0.063W, 1%, 30.1 OHMS | 268361-30R1 | |
| R711 | RES, 0402, 0.063W, 1%, 30.1 OHMS | 268361-30R1 | |
| R712 | RES, 0402, 0.063W, 1%, 30.1 OHMS | 268361-30R1 | |
| R713 | RES, 0402, 0.063W, 1%, 30.1 OHMS | 268361-30R1 | |
| R714 | RES, 0402, 0.063W, 1%, 30.1 OHMS | 268361-30R1 | |
| R715 | RES, 0402, 63MW, 1%, 4.99K | 268361-4991 | |

# ELECTRICAL PART LIST

Main PCB

Resistors (continued)

| Reference Designator | Description | Material Number | Note |
|---|---|---|---|
| R716 | RES, 0402, 63MW, 1%, 4.99K | 268361-4991 | |
| R717 | RES, 0402, 63MW, 1%, 10K | 268361-1002 | |
| R720 | RES, 0402, 63MW, 1%, 4.99K | 268361-4992 | |
| R721 | RES, 0402, 63MW, 1%, 4.99K | 268361-4992 | |
| R722 | RES, 0402, 63MW, 1%, 2.21K | 268361-2213 | |
| R723 | RES, 0402, 63MW, 1%, 1M | 268361-1004 | |
| R801 | RES, 0402, 63MW, 1%, 1K | 268361-1001 | |
| R802 | RES, 0402, 63MW, 1%, 10K | 268361-1002 | |
| R803 | RES, 0402, 63MW, 1%, 10K | 268361-1002 | |
| R805 | RES, 0402, 63MW, 1%, 100 OHM | 268361-1000 | |
| R806 | RES, 0603, .1W, 1%, 20 OHM | 191465-20R0 | |
| R807 | RES, 0402, 63MW, 1%, 1K | 268361-1001 | |
| R808 | RES, 0402, 63MW, 1%, 100 OHM | 268361-1000 | |
| R809 | RES, 0402, 63MW, 1%, 10K | 268361-1002 | |
| R810 | RES, 0402, 63MW, 1%, 10K | 268361-1002 | |
| R811 | RES, 0402, 63MW, 1%, 10K | 268361-1002 | |
| R812 | RES ,0603, .1W, 1%, 20 OHM | 191465-20R0 | |
| R813 | RES, 0402, 63MW, 1%, 1K | 268361-1001 | |
| R814 | RES, 0402, 63MW, 1%, 100 OHM | 268361-1000 | |
| R815 | RES, 0402, 63MW, 1%,10 OHM | 268361-10R0 | |
| R816 | RES, 0603, 0.1W, 1%, 12OHMS | 191465-12R0 | |
| R817 | RES, 0402, 63MW, 1%, 1K | 268361-1001 | |
| R819 | RES, 0402, 63MW, 1%, 100 OHM | 268361-1000 | |
| R820 | RES, 0603, .1W, 1%, 33 OHM | 191465-33R0 | |
| R825 | RES, 0603, .1W, 1%, 75 OHM | 191465-75R0 | |
| R827 | RES, 0603, .1W, 1%, 75 OHM | 191465-75R0 | |

# ELECTRICAL PART LIST

Main PCB
Capacitors

| Reference Designator | Description | Material Number | Note |
|---|---|---|---|
| C302 | CAP, X5R, 0402, 20%, 6.3V, 2.2uF | 313771-225JM | |
| C303 | CAP, X5R, 0603, 2.2uF, 16V, 20% | 313766-225C | |
| C304 | CAP, X5R, 0402, 20%, 6.3V, 2.2uF | 313771-225JM | |
| C305 | CAP, X5R, 0402, 10V, 10%, 0.47uF | 342199-474 | |
| C306 | CAP, COG, 0402, 5%, 15pF, 50V | 268364-150 | |
| C307 | CAP, X7R, 0402, 50V, 5%, 10 nF | 268366-103 | |
| C308 | CAP, X7R, 0402, 50V, 5%, 10 nF | 268366-103 | |
| C309 | CAP, X5R, 0402, 10V, 10%, 0.47uF | 342199-474 | |
| C310 | CAP, X5R, 0402, 0.1uF, 16V, 10% | 313771-104C | |
| C311 | CAP, X7R, 0402, 16V, 10%, 1000pF | 293702-102 | |
| C312 | CAP, X5R, 0402, 0.1uF, 16V, 10% | 313771-104C | |
| C314 | CAP, X5R, 0402, 20%, 6.3V, 2.2uF | 313771-225JM | |
| C316 | CAP, X5R, 0603, 4.7uF, 6.3V, 20% | 313766-475J | |
| C317 | CAP, X5R, 0402, 0.1uF, 16V, 10% | 313771-104C | |
| C318 | CAP, X7R, 0402, 16V, 10%, 1000pF | 293702-102 | |
| C319 | CAP, X7R, 0402, 16V, 10%, 1000pF | 293702-102 | |
| C320 | CAP, X7R, 0402, 16V, 10%, 1000pF | 293702-102 | |
| C321 | CAP, X7R, 0402, 16V, 10%, 1000pF | 293702-102 | |
| C322 | CAP, X7R, 0402, 16V, 10%, 1000pF | 293702-102 | |
| C323 | CAP, X7R, 0402, 16V, 10%, 1000pF | 293702-102 | |
| C324 | CAP, X5R, 0603, 2.2uF, 16V, 20% | 313766-225C | |
| C325 | CAP, COG, 0402, 5%, 100pF, 50V | 268364-101 | |
| C326 | CAP, COG, 0402, 5%, 100pF, 50V | 268364-101 | |
| C327 | CAP, COG, 0402, 5%, 100pF, 50V | 268364-101 | |
| C328 | CAP, COG, 0402, 5%, 100pF, 50V | 268364-101 | |
| C401 | CAP, X7R, 0402, 16V, 10%, 1000pF | 293702-102 | |
| C402 | CAP, X7R, 0402, 16V, 10%, 1000pF | 293702-102 | |
| C403 | CAP, X7R, 0402, 16V, 10%, 1000pF | 293702-102 | |
| C404 | CAP, 1206, X7R, LD, 25V, 10%, 1uF | 306105-105 | |
| C405 | CAP, 1206, X7R, LD, 25V, 10%, 1uF | 306105-105 | |
| C406 | CAP, 1206, X7R, LD, 25V, 10%, 1uF | 306105-105 | |
| C407 | CAP, X7R, 0402, 50V, 5%, 1nF | 268366-102 | |
| C408 | CAP, X7R, 0402, 50V, 5%, 1nF | 268366-102 | |
| C409 | CAP, X7R, 0402, 16V, 10%, 1000pF | 293702-102 | |
| C410 | CAP, X7R, 0402, 16V, 10%, 1000pF | 293702-102 | |
| C412 | CAP, X7R, 0402, 16V, 10%, 1000pF | 293702-102 | |
| C414 | CAP, X7R, 0402, 10V, 10%, 0.1uF, COMM | 718866-104K1A | |
| C415 | CAP, X7R, 0402, 16V, 10%, 1000pF | 293702-102 | |
| C416 | CAP, X7R, 0402, 16V, 10%, 1000pF | 293702-102 | |
| C417 | CAP, 1206, X7R, LD, 25V, 10%, 1uF | 306105-105 | |
| C419 | CAP, X7R, 0603, 1uF, 16V, 10% | 257154-105K16 | |
| C420 | CAP, X7R, 0402, 10V, 10%, 0.1uF, COMM | 718866-104K1A | |
| C421 | CAP, X5R, 0603, 6.3V, 20%, 22uF, COMM | 718835-226M0J | |

# ELECTRICAL PART LIST

Main PCB

Capacitors Continued

| Reference Designator | Description | Material Number | Note |
|---|---|---|---|
| C422 | CAP, X7R, 0402, 10V, 10%, 0.1uF, COMM | 718866-104K1A | |
| C423 | CAP, X7R, 0402, 16V, 10%, 1000pF | 293702-102 | |
| C424 | CAP, X7R, 0402, 16V, 10%, 1000pF | 293702-102 | |
| C425 | CAP, X7R, 0402, 10V, 10%, 0.1uF, COMM | 718866-104K1A | |
| C502 | CAP, X7R, 0402, 16V, 10%, 0.1uF, COMM | 718866-104K1C | |
| C504 | CAP, X7R, 0402, 16V, 10%, 0.1uF, COMM | 718866-104K1C | |
| C505 | CAP, X7R, 0402, 16V, 10%, 0.1uF, COMM | 718866-104K1C | |
| C506 | CAP, X7R, 0402, 16V, 10%, 10000pF, COMM | 718866-103K1C | |
| C507 | CAP, CER, 1210, X7R, 25V, 10uF | 291431-106 | |
| C508 | CAP, 1206, X7R, 25V, 10%, 4.7uF | 262063-475 | |
| C509 | CAP, X7R, 0402, 16V, 10%, 0.1uF, COMM | 718866-104K1C | |
| C511 | CAP, CER, 1210, X7R, 25V, 10uF | 291431-106 | |
| C512 | CAP, X7R, 0402, 16V, 10%, 0.1uF, COMM | 718875-104K1C | |
| C513 | CAP, X7R, 0402, 16V, 10%, 1000pF, COMM | 718866-102K1C | |
| C603 | CAP, X5R, 0805, 25V, 10%, 10uF | 273592-106E | |
| C604 | CAP, 0805, X7R, 50V, 0.33uF | 133623-334 | |
| C605 | CAP, X5R, 0805, 22uF, 6.3V, 20% | 273592-226JM | |
| C608 | CAP, X7R, 0402, 16V, 10%, 1000pF | 293702-102 | |
| C610 | CAP, X7R, 0402, 16V, 10%, 1000pF | 293702-102 | |
| C701 | CAP, X5R, 0805, 22uF, 6.3V, 20% | 273592-226JM | |
| C702 | CAP, 0805, X7R, 10%, 25V, 1uF | 181264-105 | |
| C703 | CAP, X5R, 0402, 0.1uF, 16V, 10% | 313771-104C | |
| C704 | CAP, X5R, 0402, 0.1uF, 16V, 10% | 313771-104C | |
| C705 | CAP, X5R, 0402, 0.1uF, 16V, 10% | 313771-104C | |
| C706 | CAP, X5R, 0402, 0.1uF, 16V, 10% | 313771-104C | |

Diodes

| Reference Designator | Description | Material Number | Note |
|---|---|---|---|
| D401 | DIODE, SWITCHING, 100V, BAV99, SOT363 | 319113-001 | |
| D402 | DIODE, SWITCHING, 100V, BAV99, SOT363 | 319113-001 | |
| D403 | DIODE, SWITCHING, 100V, BAV99, SOT363 | 319113-001 | |
| D502 | DIODE, SCHOTTKY, 40V, 3A, SMB | 193847-001 | |
| D503 | DIODE, SCHTKY, SC70, 30V, SERIES | 268381-004 | |
| D601 | DIODE, SCHTKY, SC70, 30V, COM.CATH | 268381-003 | |
| D602 | DIODE, SCHTKY, SC70, 30V, COM.CATH | 268381-003 | |
| D701 | DIODE, SOT-23, BAV99 | 147239 | |
| D702 | DIODE, SCHTKY, SC70, 30V, COM.CATH | 268381-003 | |
| DS801 | DIODE, LED, 0402, 0.01A, 5V, VERT, WHITE | 373123-0010 | |
| DS802 | DIODE, LED, 0402, 0.01A, 5V, VERT, WHITE | 373123-0010 | |
| DS803 | DIODE, LED, 0603, 0.20A, 5V, BLUE | 728316-0020 | |
| DS805 | DIODE, LED, 0402, 0.02A, 5V, GRN | 364327-0020 | |
| DS807 | DIODE, LED, 0402, 0.02A, 5V, YELLOW | 367495-0020 | |
| DS808 | DIODE, LED, 0402, 0.02A, 4V, RED | 367495-0010 | |

# ELECTRICAL PART LIST

Main PCB

Transistors

| Reference Designator | Description | Material Number | Note |
|---|---|---|---|
| Q501 | TRANSISTOR, MOSFET, P-CH, 0.3A, 30V, DMP32D4S | 736331-0010 | |
| Q502 | TRANSISTOR, BRT, NPN, 4.7K/47K, SOT-23 | 346223-0010 | |
| Q503 | TRANSISTOR, BRT, NPN, 4.7K/47K, SOT-23 | 346223-0010 | |
| Q504 | TRANSISTOR, MOSFET, P-CH, 4A, 20V, SOT-23 | 626239-0010 | |
| Q505 | TRANSISTOR, BRT, NPN, 4.7K/47K, SOT-23 | 346223-0010 | |
| Q506 | XSISTOR, BPLR, P, 40V, 200mA, SOT23 | 148596 | |
| Q601 | XSISTOR, BPLR, N, 40V, 200mA, SOT23 | 146819 | |
| Q602 | TRANSISTOR, MOSFET, P-CH, 0.3A, 30V, DMP32D4S | 736331-0010 | |
| Q701 | TRANSISTOR, MFET, N-CH, 0.3A, 60V, SOT-23 | 356154-0010 | |
| Q801 | TRANSISTOR, BPLR, NPN, 0.2A, 40V, SOT-363 | 195857-3 | |
| Q802 | TRANSISTOR, BPLR, NPN, 0.2A, 40V, SOT-363 | 195857-3 | |
| Q803 | TRANSISTOR, BPLR, NPN, 0.2A, 40V, SOT-363 | 195857-3 | |
| Q804 | TRANSISTOR, BPLR, NPN, 0.2A, 40V, SOT-363 | 195857-3 | |

Integrated Circuits

| Reference Designator | Description | Material Number | Note |
|---|---|---|---|
| U200 | IC, SoC,BLUETOOTH, W/DSP, CSR8670C, 112VFBGA | 354008-0010 | |
| U202 | IC, MEM, FLASH, SERIAL, 32Mb, 1.8V, 8SO | 716603-0010 | |
| U501 | IC, BATT CHRG, LI-ION, USB, 2-CELL, 5V, 20CSP | 715728-0010 | |
| U602 | IC, VREG, SW, BUCK, 0.5A, 3.3V, TPS62172, 8WSON | 715991-0010 | |
| U701 | IC, SoC, ARM, 32b, 85C, 4V, STM32F030C6, 48LQFP | 715757-0020 | |

Miscellaneous

| Reference Designator | Description | Material Number | Note |
|---|---|---|---|
| FB501 | BEAD, FERRITE, 0603, 6A, 26 OHMS | 345337-S026 | |
| FB502 | BEAD, FERRITE, 0603, 6A, 26 OHMS | 345337-S026 | |
| FL301 | FILTER, SAW, 2.4GHz, BLUETOOTH, SON-5 | 331796-0010 | |
| J902 | CONN, BRD-BRD, MALE, T ENTRY, 20POS, GRY | 357552-0020 | |
| J903 | CONN, FFC, 0.5mm, S ENTRY, 34POS | 363842-34S2 | |
| L301 | INDUCTOR, POWER, SMT, 85C, 1A, 20%, 4.7uH | 627684-4R7M | |
| L302 | INDUCTOR, POWER, SMT, 85C, 1A, 20%, 4.7uH | 627684-4R7M | |
| L501 | INDUCTOR, SMT, 6X6mm, 2.6A, 20%, 4.7uH | 369623-4R7M | |
| L601 | INDUCTOR, POWER, SMT, 85C, 1.2A, 20%, 3.3uH | 716046-3R3M | |
| S801 | SWITCH, TACT, SPST, 50mA, 12V, SMT | 364142-0010 | |
| S802 | SWITCH, TACT, SPST, 50mA, 12V, SMT | 364142-0010 | |
| S804 | SWITCH, TACT, SPST, 50mA, 12V, SMT | 364142-0010 | |
| S805 | SWITCH, TACT, SPST, 50mA, 12V, SMT | 364142-0010 | |
| S806 | SWITCH, TACT, SPST, 50mA, 12V, SMT | 364142-0010 | |
| W201 | JUMPER, 0402, 0 OHM | 280043 | |
| W202 | JUMPER, 0402, 0 OHM | 280043 | |

# ELECTRICAL PART LIST

Main PCB
Miscellaneous Continued

| Reference Designator | Description | Material Number | Note |
|---|---|---|---|
| W301 | JUMPER, 0402, 0 OHM | 280043 | |
| W302 | JUMPER, 0402, 0 OHM | 280043 | |
| W402 | JUMPER, 0402, 0 OHM | 280043 | |
| W403 | JUMPER, 0402, 0 OHM | 280043 | |
| W404 | JUMPER, 0402, 0 OHM | 280043 | |
| W405 | JUMPER, 0402, 0 OHM | 280043 | |
| W408 | JUMPER, 0402, 0 OHM | 280043 | |
| W409 | JUMPER, 0402, 0 OHM | 280043 | |
| W412 | JUMPER, 0402, 0 OHM | 280043 | |
| W413 | JUMPER, 0402, 0 OHM | 280043 | |
| W414 | JUMPER, 0402, 0 OHM | 280043 | |
| W416 | JUMPER, 0402, 0 OHM | 280043 | |
| W703 | JUMPER, 0402, 0 OHM | 280043 | |
| W704 | JUMPER, 0402, 0 OHM | 280043 | |
| X301 | CRYSTAL, 26MHz, +/-10ppm, SMD | 291429-008 | |

Boost PCB Part List
Resistors

| Reference Designator | Description | Material Number | Note |
|---|---|---|---|
| R500 | RES, 0402, 63MW, 1%, 100K | 268361-1003 | |
| R501 | RES, 0402, 63MW, 1%, 100K | 268361-1003 | |
| R502 | RES, 0402, 63MW, 1%, 22.1K | 268361-2212 | |
| R505 | RES, 0402, 63MW, 1%, 100K | 268361-1003 | |
| R508 | RES, 0402, 63MW, 1%, 100K | 268361-1003 | |
| R509 | RES, 0402, 33.2K, 1/16W, 1% | 268361-3322 | |
| R510 | RES, 0402, 63MW, 1%, 100K | 268361-1003 | |
| R511 | RES, 0402, 63MW, 1%, 280K | 268361-2803 | |
| R512 | RES, 0402, 63MW, 1%, 27.4K | 268361-2742 | |
| R513 | RESISTOR, JUMPER, 2A, 1206 | 319408-001 | |
| R514 | RES, 0402, 63MW, 1%, 1.00K | 268361-1001 | |
| R515 | RES, METAL FOIL, 1206, 0.5W, 1%, 0.005 OHM | 626686-R005F | |
| R516 | RES, 0402, 63MW, 1%, 10.0K | 268361-1002 | |
| R517 | RES, 0402, 63MW, 1%, 10.0K | 268361-1002 | |
| R518 | RES, 0805, 1/10W, 5%, 2.7 OHM | 133626-2R75 | |
| R519 | RES, 0402, 47.5K, 1/16W, 1% | 268361-4752 | |
| R520 | RES, 0402, 47.5K, 1/16W, 1% | 268361-4752 | |
| R521 | RES, 0402, 63MW, 1%, 499K | 268361-4993 | |
| R522 | RES, 0402, 63MW, 1%, 22.6K | 268361-2262 | |
| R523 | RES, 0402, 63MW, 1%, 3.01K | 268361-3011 | |
| R524 | RES, 0402, 63MW, 1%, 100 OHM | 268361-1000 | |
| R525 | RES, 0402, 63MW, 1%, 150K | 268361-1503 | |
| R526 | RES, 0402, 63MW, 1%, 499K | 268361-4993 | |

# ELECTRICAL PART LIST

Boost PCB

Capacitors

| Reference Designator | Description | Material Number | Note |
|---|---|---|---|
| C400 | CAP, COG, 0402, 5%, 100pF, 50V | 268364-101 | |
| C401 | CAP, COG, 0402, 5%, 100pF, 50V | 268364-101 | |
| C501 | CAP, 0603, X7R, 50V, 10%, .033uF | 191470-333 | |
| C502 | CAP, COG, 0402, 5%, 100pF, 50V | 268364-101 | |
| C503 | CAP, C0G, 0402, 50V, 5%, 1.2nF | 268364-122 | |
| C504 | CAP, X5R, 0805, 25V, 10%, 10uF | 273592-106E | |
| C505 | CAP, COG, 0402, 50V, 5%, 68pF | 268364-680 | |
| C506 | CAP, X7R, 0603, 1uF, 16V, 10% | 257154-105K16 | |
| C507 | CAP, X5R, 0805, 25V, 10%, 10uF | 273592-106E | |
| C508 | CAP, X7R, 0603, 10%, 0.1uF, 50V | 304991-104 | |
| C509 | CAP, COG, 0402, 5%, 100pF, 50V | 268364-101 | |
| C510 | CAP, X5R, 0805, 25V, 10%, 10uF | 273592-106E | |
| C511 | CAP, X5R, 0805, 25V, 10%, 10uF | 273592-106E | |
| C512 | CAP, C0G, 0402, 50V, 5%, 1.5nF | 268364-152 | |
| C513 | CAP, X7R, 10UF, 25V, SMD, 125C, FT | 315052-106D | |
| C515 | CAP, X7R, 0402, 25V, 5%, 3.3nF | 268367-332 | |

Diodes

| Reference Designator | Description | Material Number | Note |
|---|---|---|---|
| D500 | DIODE, DUAL, 75V, 300mA, SOT-23 | 148774 | |
| D501 | DIODE, SOT-23, BAV99 | 147239 | |
| D503 | DIODE, SCHOTTKY, 10A, 40V, SMT | 350300-0020 | |
| D504 | DIODE, SCHTKY, SC70, 30V, SINGLE | 268381-001 | |

Transistors

| Reference Designator | Description | Material Number | Note |
|---|---|---|---|
| Q500 | XISTOR, MFET, N-CH, 0.3A, 60V, 2N7002K, AUTO-Q | 356154-0020 | |
| Q501 | XISTOR, MFET, N-CH, 0.3A, 60V, 2N7002K, AUTO-Q | 356154-0020 | |
| Q502 | XISTOR, MFET, N-CH, 0.3A, 60V, 2N7002K, AUTO-Q | 356154-0020 | |
| Q503 | XISTOR, MOSFET, P-CH, 4A,20V, SOT-23 | 626239-0010 | |
| Q504 | XISTOR, MFET, N-CH, 0.3A, 60V, 2N7002K, AUTO-Q | 356154-0020 | |
| Q505 | XISTOR, MFET, N-CH, 0.3A, 60V, 2N7002K, AUTO-Q | 356154-0020 | |
| Q506 | XISTOR, MFET, N-CH, 21A, 25V, 8SON | 357501-0010 | |
| Q507 | XISTOR, BPLR, P, 40V, 200mA, SOT23 | 148596 | |

# ELECTRICAL PART LIST

Boost PCB

Integrated Circuits

| Reference Designator | Description | Material Number | Note |
|---|---|---|---|
| U500 | IC, BOOST CONTROLLER, 4.5V TO 52V, 10SON | 327304-0020 | |

Miscellaneous

| Reference Designator | Description | Material Number | Note |
|---|---|---|---|
| J400 | CONN, BRD-BRD, FEMALE, S ENTRY, 20 POS, GRY | 357586-20S1 | |
| J401 | CONN,BRD-BRD,FEMALE,S ENTRY,20 POS,GRY | 357586-20S1 | |
| L500 | INDUCTOR, SMT, 11.4X10.8mm, 13.6A, 20%, 2.2uH | 628640-2R2M | |

Amp PCB Part List

Resistors

| Reference Designator | Description | Material Number | Note |
|---|---|---|---|
| R200 | RES, 0402, 63MW, 1%, 249 OHM | 268361-2490 | |
| R201 | RES, 0402, 63MW, 1%, 249 OHM | 268361-2490 | |
| R202 | RES, 0402, 63MW, 1%, 249 OHM | 268361-2490 | |
| R203 | RES, 0402, 63MW, 1%, 249 OHM | 268361-2490 | |
| R300 | RES, 0402, 63MW, 1%, 100K | 268361-1003 | |
| R302 | RES, 0402, 63MW, 1%, 100K | 268361-1003 | |
| R303 | RES, 0603, .1W, 1%, 20K | 191465-2002 | |
| R304 | RES, 0603, .1W, 1%, 100K | 191465-1003 | |
| R305 | RES, 0402, 63MW, 1%, 10 OHM | 268361-10R0 | |
| R306 | RES, 0402, 63MW, 1%, 1K | 268361-1001 | |

Capacitors

| Reference Designator | Description | Material Number | Note |
|---|---|---|---|
| C200 | CAP, COG, 0402, 5%, 1000pF, 50V | 268366-102 | |
| C201 | CAP, COG, 0402, 5%, 1000pF, 50V | 268366-102 | |
| C202 | CAP, X7R, 0402, 50V, 10%, 1500pF, COMM | 718866-152K1H | |
| C203 | CAP, X7R, 0402, 50V, 10%, 1500pF, COMM | 718866-152K1H | |
| C204 | CAP, X7R, 0402, 50V, 10%, 1500pF, COMM | 718866-152K1H | |
| C205 | CAP, X7R, 0402, 50V, 10%, 1500pF, COMM | 718866-152K1H | |
| C300 | CAP, 1206, X7R, LD, 25V, 10%, 1.0uF | 306105-105 | |
| C301 | CAP, 1206, X7R, LD, 25V, 10%, 1.0uF | 306105-105 | |
| C302 | CAP, 1206, X7R, LD, 25V, 10%, 1.0uF | 306105-105 | |
| C303 | CAP, 1206, X7R, LD, 25V, 10%, 1.0uF | 306105-105 | |
| C304 | CAP, X7R, 0603, 1uF, 16V, 10% | 257154-105K16 | |
| C305 | CAP, 1206, X7R, 50V, 1uF, 10% | 286500-105 | |
| C306 | CAP, 0805, X7R, 50V, 10%, 0.22uF | 133623-224 | |

# ELECTRICAL PART LIST

Amp PCB Part List
Capacitors (Continued)

| Reference Designator | Description | Material Number | Note |
|---|---|---|---|
| C307 | CAP, 0805, X7R, 50V, 10%, 0.22uF | 133623-224 | |
| C308 | CAP, 0805, X7R, 50V, 10%, 0.22uF | 133623-224 | |
| C309 | CAP, 0805, X7R, 50V, 10%, 0.22uF | 133623-224 | |
| C310 | CAP, COG, 0402, 5%, 1000pF, 50V | 268364-102 | |
| C311 | CAP, COG, 0402, 5%, 1000pF, 50V | 268364-102 | |
| C312 | CAP, X7R, 0603, 10%, 0.1uF, 50V | 304991-104 | |
| C313 | CAP, X7R, 0603, 10%, 0.1uF, 50V | 304991-104 | |
| C315 | CAP, X7R, 0603, 10%, 0.1uF, 50V | 304991-104 | |
| C317 | CAP, X7R, 0603, 10%, 0.1uF, 50V | 304991-104 | |
| C320 | CAP, 1206, X7R, 50V, 1.0uF, 10% | 286500-105 | |
| C321 | CAP, 1206, X7R, 50V, 1.0uF, 10% | 286500-105 | |
| C322 | CAP, COG, 0402, 5%, 100pF, 50V | 268364-101 | |
| C323 | CAP, COG, 0402, 5%, 100pF, 50V | 268364-101 | |
| C324 | CAP, COG, 0402, 5%, 100pF, 50V | 268364-101 | |
| C325 | CAP, 1206, X7R, 50V, 1.0uF, 10% | 286500-105 | |
| C327 | CAP, COG, 0402, 5%, 100pF, 50V | 268364-101 | |
| C328 | CAP, X7R, 10uF, 25V, SMD, 125C, FT | 315052-106D | |
| C329 | CAP, X7R, 10uF, 25V, SMD, 125C, FT | 315052-106D | |
| C330 | CAP, X7R, 10uF, 25V, SMD, 125C, FT | 315052-106D | |

Integrated Circuits

| Reference Designator | Description | Material Number | Note |
|---|---|---|---|
| U300 | IC, PWR AMP, CLASS D, 2X30W, 8 OHM, 32SO | 356443-0010 | 3 ⚠ |

Miscellaneous

| Reference Designator | Description | Material Number | Note |
|---|---|---|---|
| FB300 | BEAD, FERRITE, 1806, 6A, 100 OHM | 722888-0010 | |
| FB301 | BEAD, FERRITE, 1806, 6A, 100 OHM | 722888-0010 | |
| FB302 | BEAD, FERRITE, 1806, 6A, 100 OHM | 722888-0010 | |
| FB303 | BEAD, FERRITE, 1806, 6A, 100 OHM | 722888-0010 | |
| J200 | CONN, BRD-BRD, MALE, T ENTRY, 20POS, GRY | 357552-0020 | |
| J300 | CONN, HEADER, 4POS, 1.25mm, MALE, WHITE | 330701-0004 | |

# ELECTRICAL PART LIST

I/O PCB Part List

Resistors

| Reference Designator | Description | Material Number | Note |
|---|---|---|---|
| R702 | RES, 0402, 47.5K, 1/16W, 1% | 268361-4752 | |
| R703 | RES, 0402, 63MW, 1%, 100K | 268361-1003 | |
| R708 | RES, 0402, 63MW, 1%, 100K | 268361-1003 | |
| R713 | RES, 0402, 63MW, 1%, 100K | 268361-1003 | |
| R714 | RES, 0402, 63MW, 1%, 100K | 268361-1003 | |
| R715 | RES, 0402, 63MW, 1%, 20.5K | 268361-2052 | |
| R716 | RES, 0402, 63MW, 1%, 20.5K | 268361-2052 | |
| R717 | RES, 0402, 63MW, 1%, 10.0K | 268361-1002 | |
| R718 | RES, 0402, 63MW, 1%, 23.7K | 268361-2372 | |
| R719 | RES, 0402, 63MW, 1%, 10.0K | 268361-1002 | |
| R720 | RES, 0402, 63MW, 1%, 10.0K | 268361-1002 | |
| R721 | RES, 0402, 63MW, 1%, 10.0K | 268361-1002 | |
| R722 | RES, 0402, 63MW, 1%, 100K | 268361-1003 | |
| R723 | RES, 0402, 63MW, 1%, 23.7K | 268361-2372 | |
| R901 | RES, 0805, 1/8W, 1%, 3.01K | 173767-3011 | |
| R902 | RES, 0805, 1/8W, 1%, 3.01K | 173767-3011 | |
| R903 | RES, 0402, 63MW, 1%, 100 OHM | 268361-1000 | |
| R904 | RES, 0402, 63MW, 1%, 100 OHM | 268361-1000 | |

Capacitors

| Reference Designator | Description | Material Number | Note |
|---|---|---|---|
| C601 | CAP, 0805, COG, 50V, 5%, 180pF | 133622-181 | |
| C701 | CAP, X7R, 0402, 16V, 5%, 0.1uF, COMM | 718866-104J1C | |
| C703 | CAP, X7R, 0402, 16V, 5%, 0.1uF, COMM | 718866-104J1C | |
| C704 | CAP, X7R, 0402, 16V, 5%, 0.1uF, COMM | 718866-104J1C | |
| C705 | CAP, X7R, 0402, 16V, 5%, 0.1uF, COMM | 718866-104J1C | |
| C706 | CAP, X7R, 0603, 1uF, 16V, 10% | 257154-105K16 | |
| C709 | CAP, X7R, 0603, 1uF, 16V, 10% | 257154-105K16 | |
| C801 | CAP, X7R, 0402, 16V, 5%, 0.1uF, COMM | 718866-104J1C | |
| C902 | CAP, X7R, 0402, 16V, 10%, 1000pF | 293702-102 | |
| C903 | CAP, COG, 0402, 5%, 180pF, 50V | 268364-181 | |
| C904 | CAP, X7R, 0402, 16V, 5%, 0.1uF, COMM | 718866-104J1C | |
| C905 | CAP, X7R, 0402, 16V, 5%, 0.1uF, COMM | 718866-104J1C | |
| C906 | CAP, 0805, COG, 50V, 5%, 180pF | 133622-181 | |
| C909 | CAP, X7R, 0402, 25V, 5%, 10nF | 268367-103 | |
| C910 | CAP, X7R,0603, 16V, 10%, 0.1uF | 257154-104K16 | |
| C913 | CAP, X7R, 0402, 16V, 10%, 1000pF | 293702-102 | |

# ELECTRICAL PART LIST

I/O PCB Part List

Diodes

| Reference Designator | Description | Material Number | Note |
|---|---|---|---|
| D702 | DIODE, SOT-23, BAV99 | 147239 | |
| D703 | DIODE, SOT-23, BAV99 | 147239 | |
| D704 | DIODE, SCHTKY, SC70, 30V, COM. CATH | 268381-003 | |
| ZR701 | DIODE, ZEN, 5.6V, 225MW, 5%, SOT-23 | 135247-5232 | |

Transistors

| Reference Designator | Description | Material Number | Note |
|---|---|---|---|
| Q701 | XSISTOR, BIAS, PNP, 0.03A, 50V, 47K/47K, SOT23 | 351912-0010 | |
| Q702 | TRANSISTOR, MOSFET, P-CH, 4A, 20V, SOT-23 | 626239-0010 | |
| Q703 | TRANSISTOR, MOSFET, P-CH, 4A, 20V, SOT-23 | 626239-0010 | |
| Q704 | XSISTOR, BIAS, PNP, 0.03A, 50V, 47K/47K, SOT23 | 351912-0010 | |
| Q705 | TRANSISTOR, MOSFET, P-CH, 4A, 20V, SOT-23 | 626239-0010 | |
| Q706 | TRANSISTOR, MOSFET, P-CH, 4A, 20V, SOT-23 | 626239-0010 | |
| Q707 | XSISTOR, BPLR, P, 40V, 200mA, SOT23 | 148596 | |
| Q708 | BSS ASSY, SOUNDLINK MINI BT 2, IO | 716542-0010 | |

Integrated Circuits

| Reference Designator | Description | Material Number | Note |
|---|---|---|---|
| U701 | IC, VOLTAGE COMPARATOR, LM339 | 187618-001 | |
| U901 | MICROPHONE, MEMS, BOTTOM PORT, AKU440 | 728418-0010 | |

Miscellaneous

| Reference Designator | Description | Material Number | Note |
|---|---|---|---|
| FB901 | JUMPER, CHIP, 0603 | 196042 | |
| J901 | CONN, CUSTOM, IO, 3.5MM, MICRO USB-B NG6 | 726796-0010 | |
| J903 | CONN, FFC, 0.5mm, S ENTRY, 34POS | 363842-34S2 | |
| J905 | CONN, CUSTOM, BATTERY, 4POS, BLK | 360718-0010 | |
| S801 | IC, MUX/DEMUX, 2X2:1, USB, TS3USB221E, 10QFN | 353620-0030 | |

# DISASSEMBLY PROCEDURE

**Important Notes!**
*Place the system in “Ship Mode” prior to disassembly by entering the TAP command “sh”. See TAP command set up on page 30.

Metal shavings might come out when removing screws from the aluminum boss in the housing. Effort must be taken to avoid metal shavings from entering the unit. Use a vacuum to remove any metal shavings.

**1. Grille Removal**

**Note:** The grille is held in place by Pressure Sensitive Adhesive (PSA) strips located in the center of the grille (figure 5.) and also by two tabs on either end of the grille (figure 3).

To avoid destroying the grill during the removal process, brush alcohol over the PSA strips (figure 5) before attempting to remove it.

**Important Note:** To avoid damage to the cabinet, do not use the cabinet as a pry point to remove the grille.

**1.1** At the location shown in Figure 3, insert the tip of a plastic tool, such as a spudger, between the grille and its rubber gasket.
**Note:** The location shown is between the PSA and grille tabs securing the grille.

**1.2** Rotate the spudger away from you while prying against the rubber gasket. Figure 4.

**1.3** Once a portion of the grille is released, grasp the grille and pull it across the unit lengthwise to release the PSA. Figure 5.

**2. Battery Removal**

The Battery in SoundLink® Mini II is hardwired to the Boost PCB. See figure 6. Place the product in ship mode prior to disassembly. See entering ship mode on page 33.

The rear grille, I/O PCB, rear baffle and Amp PCB must be removed before the Battery and Boost board can be removed. Use the following procedure to remove the battery and the boost board in order to unsolder the cable and replace the battery.


**Figure 3.**

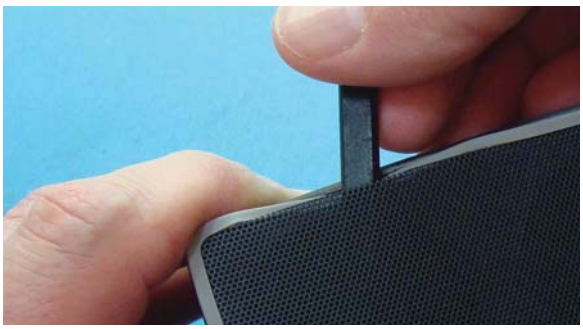


**Figure 4.**

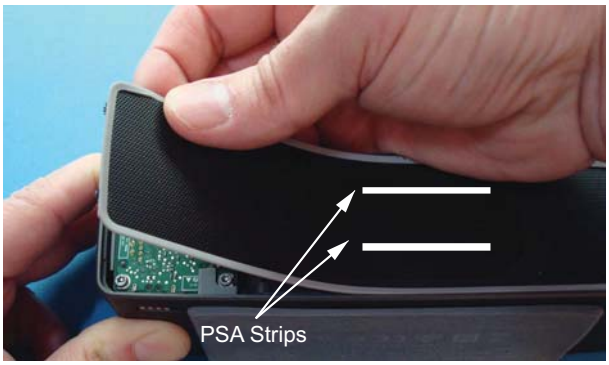



**Figure 5.**

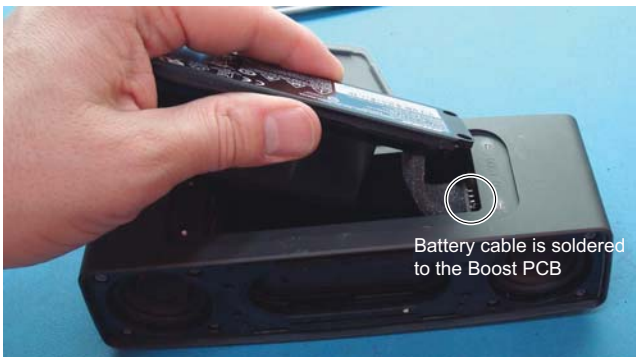



**Figure 6.**

# DISASSEMBLY PROCEDURE

**Battery removal Removal (Continued)**

**2.1** Remove the foot by pulling it away from the battery.

**2.2** Remove the four screws securing the battery to the cabinet. Figure 7.

**Figure 7.**

**2.3** Remove the four screws securing the I/O PCB to the cabinet as shown in Figure 8.

**2.4** Carefully peel away the foam tape securing the FFC cable to the I/O PCB connector. This foam will be damaged when removing, plan to replace the foam with part number 373978-0010, see item 8 on page 7.

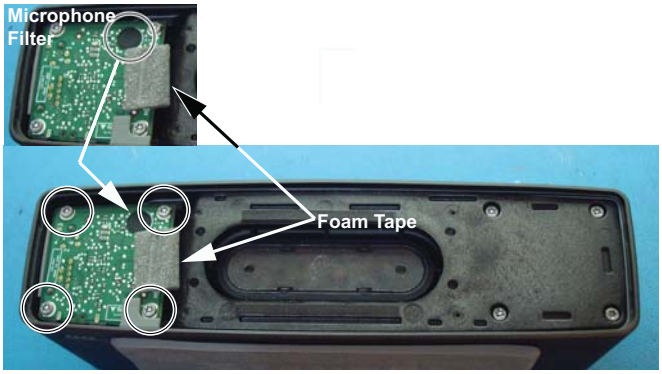



**Figure 8.**

**Note:** When handling the I/O board, do not to touch the microphone filter with fingers. Gloves should be used to avoid contact with the filter. Figure 8.

The replacement I/O PCB does not include the microphone filter. Install new part (744588-0010) when replacing the I/O PCB.

**2.4** Move the I/O PCB to the right until the AUX connector clears the housing and then lift the top edge of the PCB until the USB connector clears the housing. Figure 9.

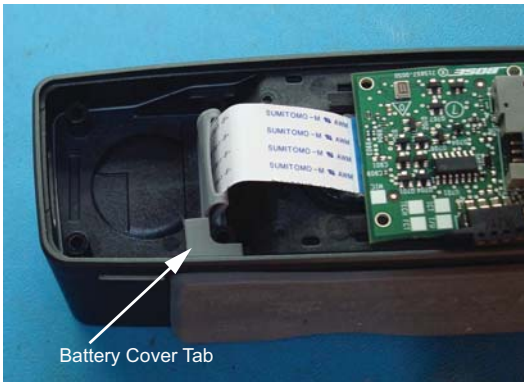



**Figure 9.**

**2.5** Partially lift out the I/O PCB. Lift up the connector locking tab to release the FFC cable from the I/O PCB connector.

**2.6** Pull the battery cover out of the retaining slot in the cabinet. Figure 9.

**2.7** Remove the four screws securing the rear baffle. Figure 10.

**Figure 10.**

# DISASSEMBLY PROCEDURE

**Battery removal Removal (Continued)**

**2.8** Lift the battery up and away from the enclosure. The battery will still be connected to the boost board but cannot be fully removed until the end of the procedure.

**2.9** As shown in Figure 11, insert your thumb into the battery cavity and press upward on the rear baffle.

**Figure 11.**

**2.10** Hold the FFC against the transducer through the battery opening while rocking the baffle back/forth as you slide it out of the cabinet. The FFC will slide out of the slot in the rear baffle while extracting the baffle in this way.

**Note:** Placing strain on the FFC Main PCB connector can damage the connector if the FFC is not held.

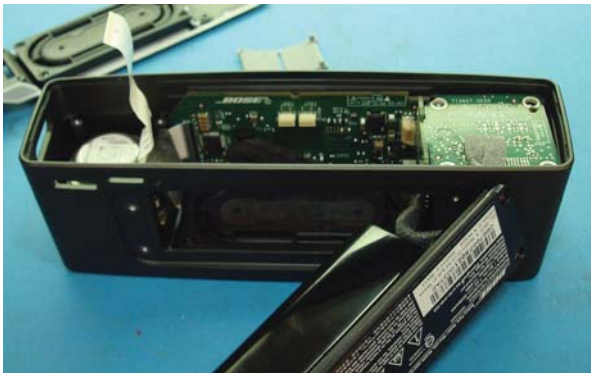


**Figure 12.**

**2.11** Using your thumb, push up on the Amp PCB as shown in Figure 13 to release it from the boost board.

**2.12** Disconnect the speaker wire harness from the AMP PCB.

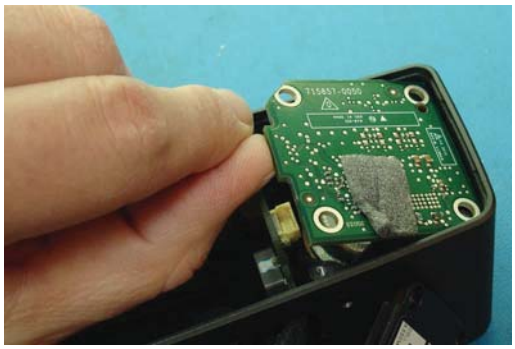


**Figure 13.**

**2.13** Release the Boost board from the main board connector by pushing upward. Figure 14, left.

**2.14** Once the connector is unplugged, pull outward on the boost board to release it from the slot. Figure 14, right.

**2.15** Lift the battery away from the enclosure by twisting the boost board to allow it to exit from the assembly along with the battery.

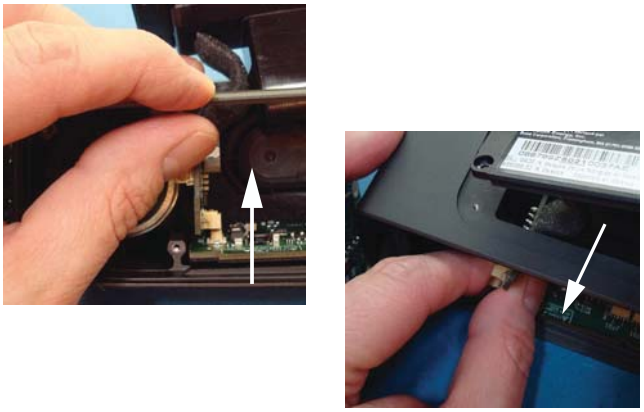


**Figure 14.**

# DISASSEMBLY PROCEDURE

**Battery removal Removal (Continued)**

**2.16** Once the battery and boost board are removed from the enclosure, the battery cable can be unsoldered and a new battery can be installed. Figure 15 shows the solder connections for the battery cable.


**Figure 15.**

**3. Driver Removal**

**3.1** Remove the eight screws securing the front baffle. Figure 16.

**Figure 16.**

**3.2** As shown in Figure 17, insert your thumb into the back of the unit or the battery cavity and push the front baffle out of the cabinet.

**Figure 17.**

**3.3** Lift the left driver out of the cabinet. With a plastic tool, such as a spudger, release the speaker harness cable from the AMP PCB.

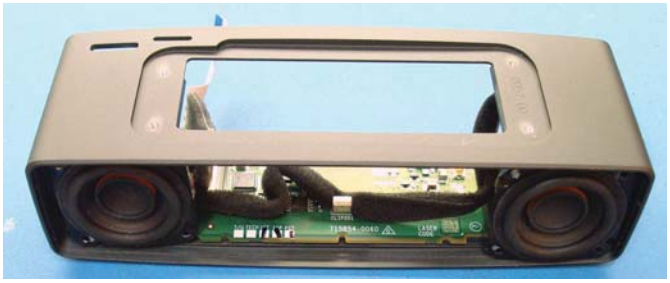


**Figure 18.**

# DISASSEMBLY PROCEDURE

**4. Main PCB Removal**

**Important Note!** To avoid damage to the switches on the Main PCB, the front and rear baffle should be removed. The Main PCB is held in place by a shelf on the front and rear baffles which restricts the ability of the Main PCB to be rotated downward enough for the switches to clear the cabinet holes.

**4.1** Perform procedures 1, 2, 3.1 and 3.2 to gain access to the Main board.

**4.1** Detach the speaker wire from the wire clip on the main board.

**4.1** lift upward on the main board and remove.

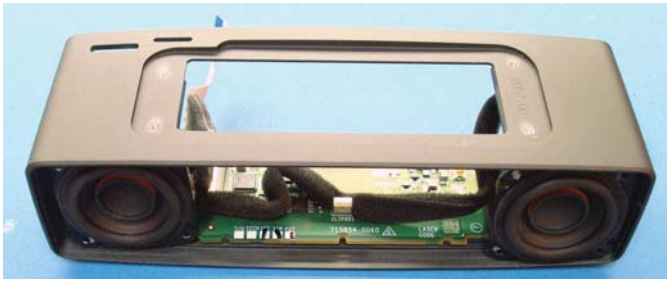


**Figure 19.**

**5. Lens Removal**

**5.1** Perform procedures 1, 2, 3 and 4 to gain access to the lens

**5.2** The Lens is held in place by Pressure Sensitive Adhesive (PSA). Insert your thumbs into the cabinet and press upward on the Lens to release the PSA. Figure 20.

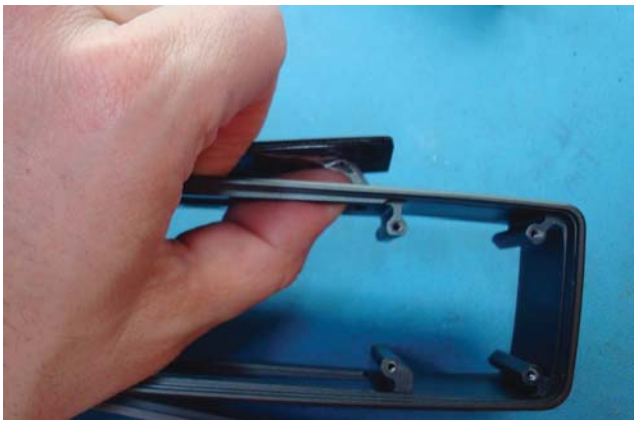


**Figure 20.**

**6. Button Pad Removal**

**5.1** Perform procedures 1, 2, 3 and 4 to gain access to the button pad.

**6.1** Insert a plastic tool, such as a spudger, under the corner of the button pad and lift it up. Figure 21.

**6.2** Peel up the button pad.

**Figure 21.**

# ASSEMBLY KEY POINTS

When assembling the unit, reverse the disassembly procedures. The following assembly instructions provide key points that are important to consider when assembling the unit.

**Note:** To avoid stripping screws, first rotate the screw counter clockwise to locate the thread holes and then clockwise to tighten.

**1. Driver Installation**

**1.1** When installing the drivers, make sure to place the speaker terminals toward the bottom. Figure 22.

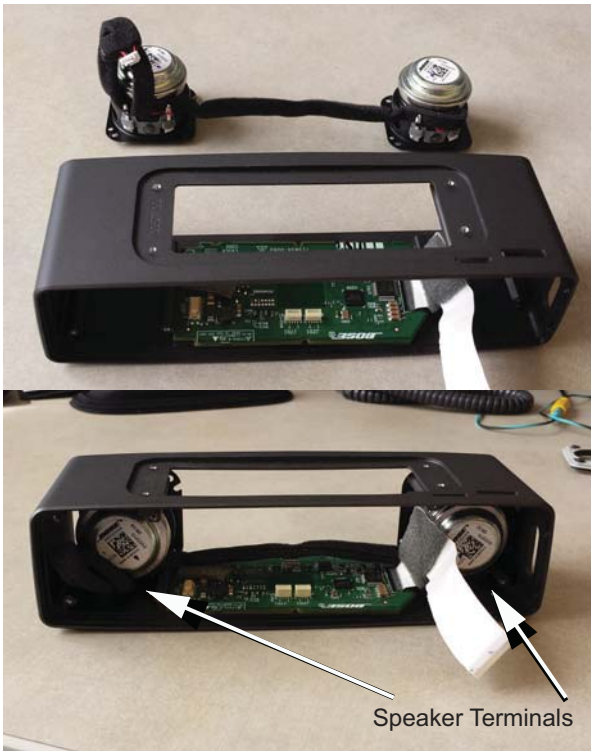
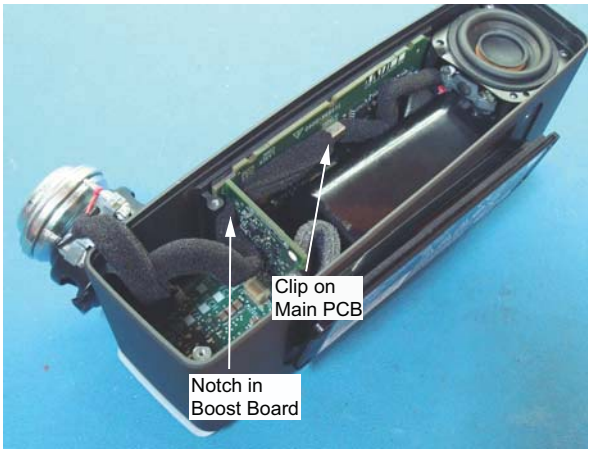



**Figure 22. Driver Placement**

**2. Speaker Harness Dressing**

**2.1** Run the speaker harness through the notch in the Boost PCB. Figure 23.

**2.2** The speaker harness should be dressed taught under the clip on the Main PCB. This will prevent the harness from contacting the moving passive radiator when assembled. Figure 23. **Note:** If the harness is too taught, the right driver will rotate out of position.



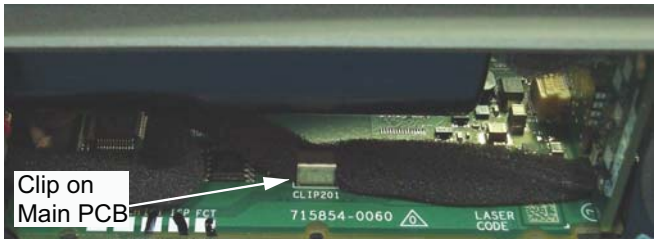




**Figure 23. Driver Harness Dressing**

# ASSEMBLY KEY POINTS

### 3. Boost Board Installation

**3.1** When installing the Boost PCB, ensure the board is placed in the PCB slot as you push down on the board to connect it to the main board. Figure 24.

### 4. Main and Boost PCB Placement

**Note:** A new FFC grommet should be used to avoid potential air leaks.

**Note:** If the baffle was removed, a new baffle should be used to avoid air leaks caused by deformation of the baffle wiper gasket. The baffle must be inserted straight down to prevent the gasket from rolling under and causing an air leak.

**4.1** Insert the grommet over the FFC as shown. Figure 25. FFC Grommet

**4.2** Lower the Main PCB into the cabinet at an angle so the switches do not scrape against the cabinet. Then feed the boost board through the top of the assembly and make the connection between the boost board and the main board.

Feed the FFC with grommet through the slot in the rear baffle. Ensure both sides of the grommet nub is fully seated in the slot. Figure 25 and 27.

**4.3** The back edge of the Main PCB should rest on the shelf of the rear baffle. Figure 26.

**4.4** Once fully inserted, rotate the front edge of the Main PCB upward until the switches are aligned to the holes in the cabinet.

**4.5** With the speaker harness lined up with the notch in the Boost PCB, rotate the Boost PCB into position. Line up its connector with the connector on the AMP PCB.
**Note:** Ensure the speaker harness is dressed as described in the Speaker Harness Dressing instructions procedure 2.

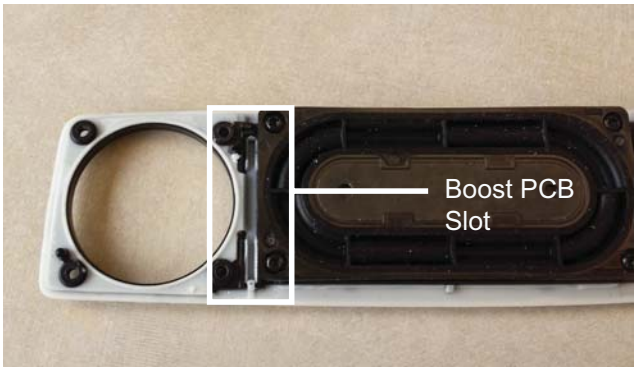



**Figure 24. Boost PCB Slot**

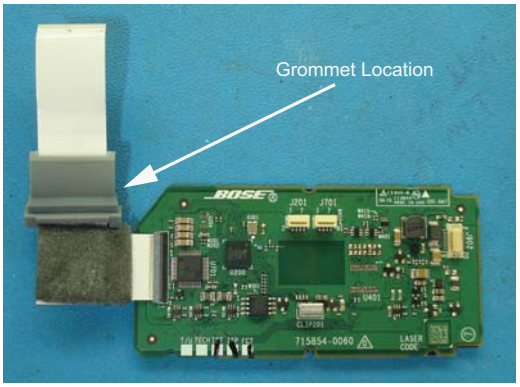



**Figure 25. FCC Grommet**

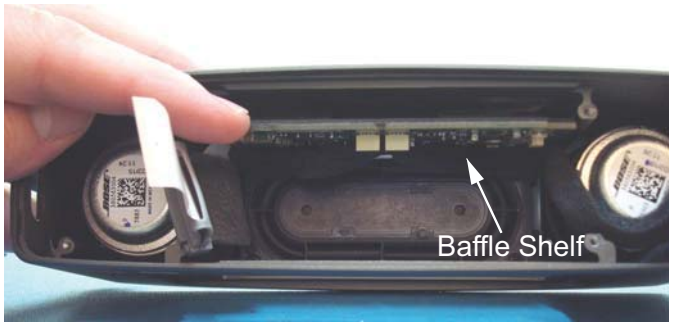



**Figure 26. Main PCB Placement**

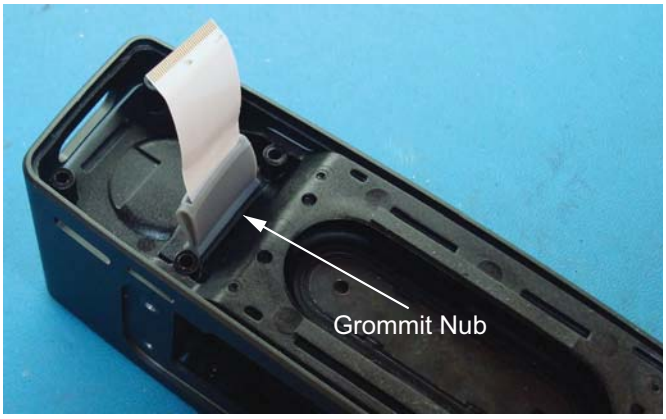



**Figure 27. Grommet Seated in Baffle Slot**

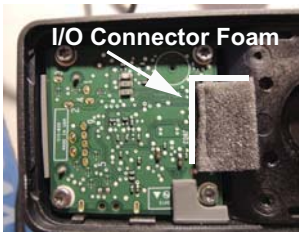
# ASSEMBLY KEY POINTS

**5. Securing the Baffles - Gasket Pressure**

**5.1** When securing the screws indicated in Figure 28, apply pressure at the points indicated. The baffle gasket provides an outward pressure on the cabinet which must be counteracted when securing the baffle screws. Failure to do so will result in an air leak.

**6. Placing the I/O Connector Foam**

**6.1** The new foam covering the I/O cable needs to be placed in the top left corner of the FFC connector to avoid encroaching on the rear gasket mic geometry.




**6.2** When placing the foam, also check for the presence of the mic filter.

**7. Grille Replacement**

**Note:** Remove all adhesive residue from the baffle.

**7.1** Align the replacement grille in the grille gasket so the tabs protrude through the holes on the edges. Figure 29 and 30.

**7.2** Align the PSA with the front and rear baffles as shown in Figure 31.

**7.3** Align the grille tabs with the cabinet and then press down on the center of the grille. A roller can be used to ensure the alignment features on the grille gasket rest in the corresponding features in the baffle. Figures 29, 30, and 31.

**Note:** Failure to properly seat the grille gasket alignment features will result in an uneven grille. Refer to Figure 32 on the next page for gasket edge alignment pictures.

**! Important:** The grille is considered a safety device and must be properly installed. To ensure the PSA has been properly activated, a grille press is needed to apply 30 PSI of pressure for 9 seconds to the area of the grille secured by PSA.

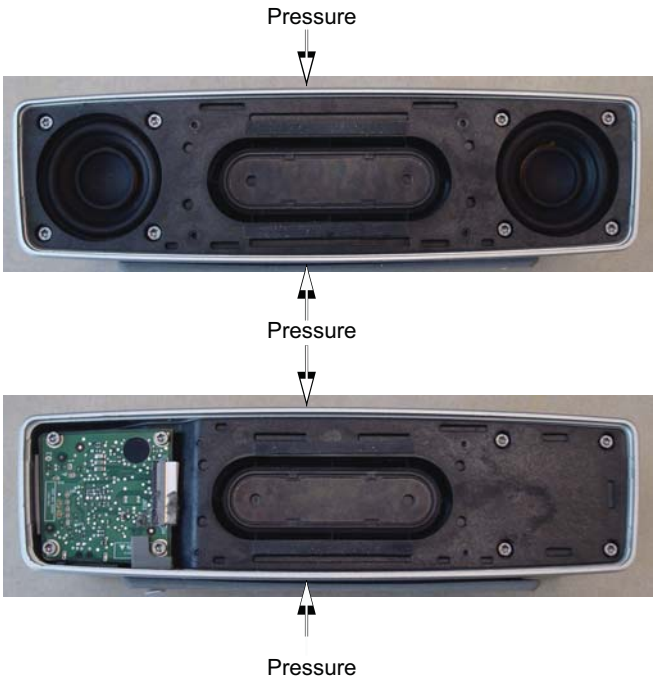



**Figure 28. Baffle Gasket Compression**

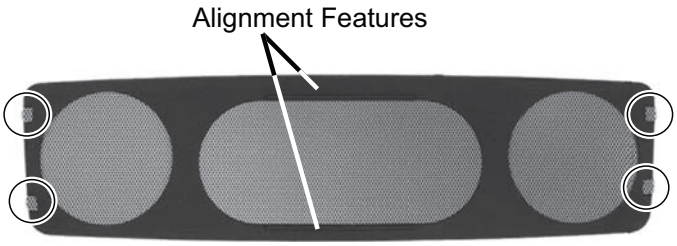



**Figure 29. Front Grille Gasket and Tabs**

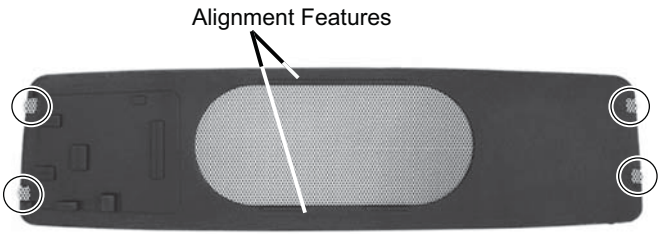
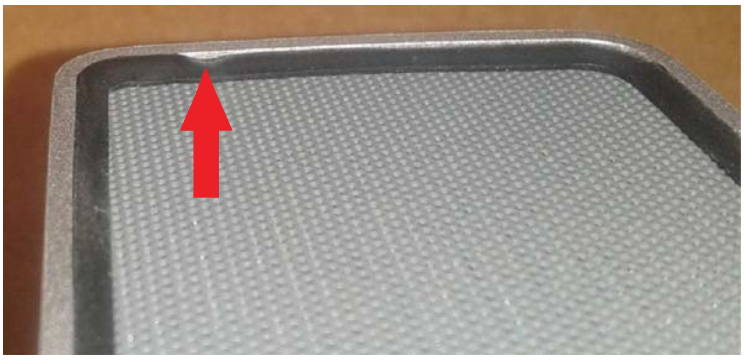



**Figure 30. Rear Grille Gasket and Tabs**

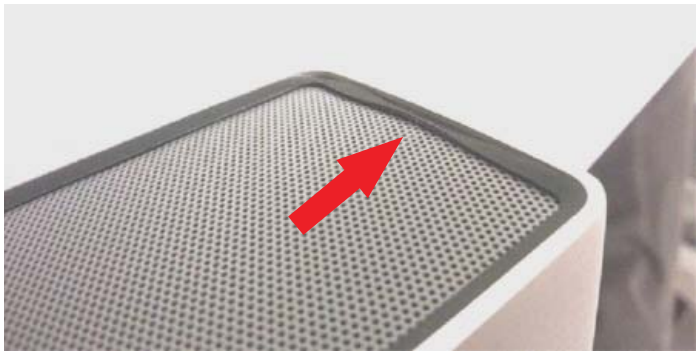

**Figure 31. PSA Location**

# ASSEMBLY KEY POINTS

Acceptable gasket alignment



Not acceptable gasket alignment



Not aceptable gasket alignment - gasket rolled over/pinched


The gasket should align flush within the cabinet edges. The Gasket does not need to have the same flushness to the top and side cabinet edges.

**Figure 32. Grille Gasket Alignment**

# USING TAP COMMANDS

**Required Items**

A. Polycomm interface tool - download “Polycomm.zip” from the SoundLink® Mini II page on the Bose® repair information website.

B. USB cable Type A to Micro B

**Setup**

1. Connect the USB cable to your computer and the SoundLink Mini II.

2. Unzip and Install the Polycomm application on your PC by clicking on the setup.exe file- this only needs to be done once.

3. Open the Polycomm application. It should state “Connected” at the bottom of the application. If not connected, click on the TAP Mode button.

4. Enter the TAP command VR to view the software version installed. A response indicates the unit is communicating in TAP mode.

**Note:** The Polycomm tool will only be used to issue TAP commands. Software updates should be performed using the customer tool.
http://worldwide.bose.com

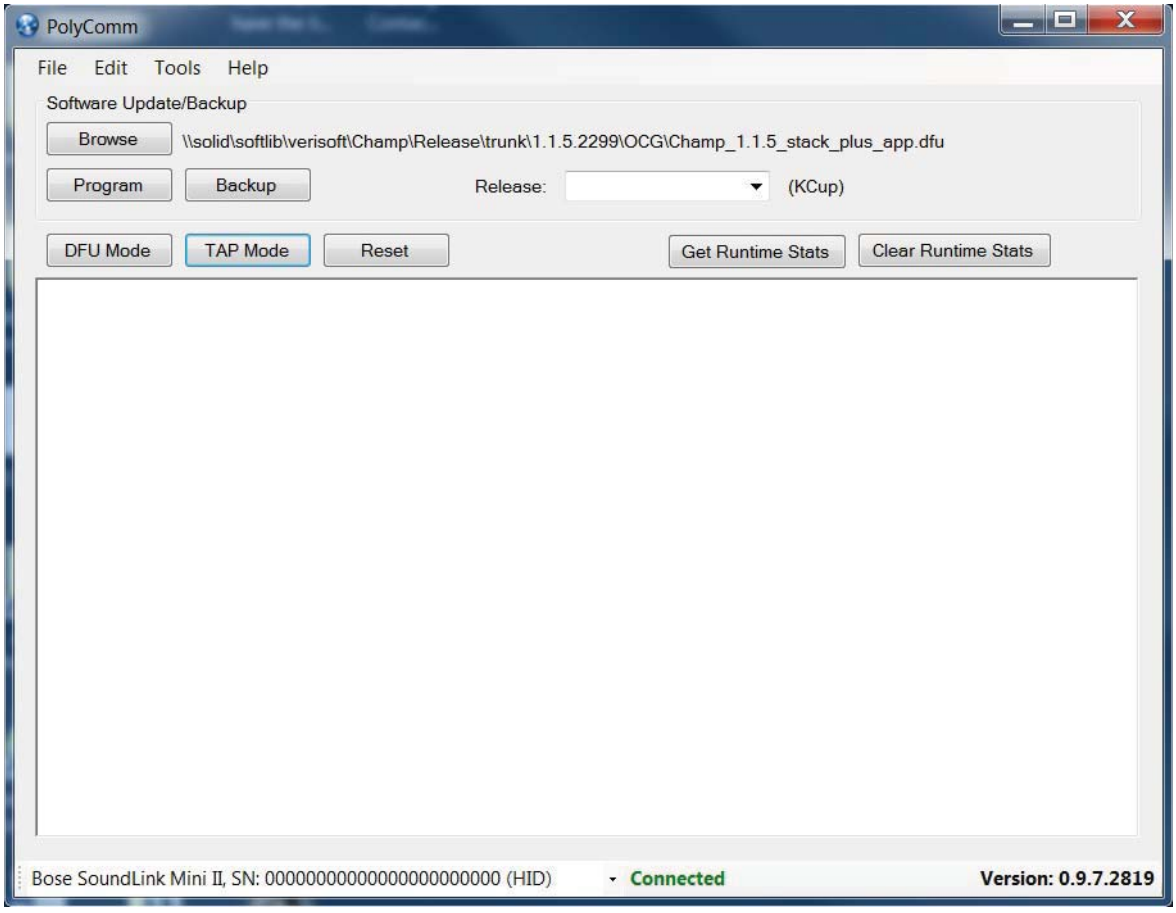



**Figure 32. PolyComm Software tool for TAP**

# TEST PROCEDURES

**Equipment Required**

Computer w/USB port
PolyComm Software
USB TYPE A to micro B cable
Audio frequency generator
Cell Phone with Bluetooth® Capabilities
USB current meter

Prior to the functional test, the integrity of the external flash IC holding all non English languages should be checked.

**A.** Factory default the product by pressing the power button for 10 seconds until the LED's turn off. Once the button is released, voice prompts will ask you to select the language.

**B.** Scroll through the different languages by pressing the volume plus button. Then select a language.

The integrity of the flash IC is confirmed if the different languages can be heard.

**1. Test Setup**

**1.1** Turn on the SoundLink® Mini II by pressing the power button.

**1.2** Run the Polycomm software and connect the USB cable from the computer to the SoundLink Mini II. Then select TAP mode.

**2. Left/Right Driver/ AUX Input Test**

**2.1** Connect a signal generator to the left AUX input of the Bose® Mini II Soundlink.

**2.2** Adjust the signal generator to 50mVrms, 800Hz.

**2.3** Issue TAP command VO 86 to set the volume to 60 (range is 0 to 99)

**2.4** Confirm audio plays from the left driver.

**2.5** Connect the signal generator to the right AUX input of the Soundlink Color.

**2.6** Confirm audio plays from the right driver.

**3. Air Leak Test/ AUX Input Test**

**3.1** Connect a signal generator the AUX input of the SoundLink Mini II.

**3.2** Adjust the signal generator to 1.00Vrms, 60Hz.

**3.3** Issue TAP command VO 86 to set the volume to 99 (range is 0 to 99)

**3.4** Listen for air leaks around the cabinet edges and keypad.

PASS if no audible air leaks can be heard at a distance of less than 1 ft (0.3M).

FAIL if any audible air leaks can be heard at a distance of less than 1 ft (0.3M).

**4. Frequency Sweep Test/ AUX Input Test**

**4.1** Connect a signal generator to the AUX input of the SoundLink Mini II.

**4.2** Adjust the signal generator to 1.0Vrms, 50Hz.

**4.3** Issue TAP command VO 99 to set the volume to 99 (range is 0 to 99)

**4.4** Sweep the signal generator from 50Hz to 2kHz.

**4.5** Listen for any extraneous noises such as buzzes, rattles, ticks, or distortion.

PASS if no noise can be heard at a distance of less than 1ft (0.3M).

FAIL if any noise can be heard at a distance less than 1ft (0.3M).

# TEST PROCEDURES

**5. Bluetooth® Functional Test**

For this test, use a Cell phone with A2DP Bluetooth, such as an iPhone® (Advanced Audio Distribution Profile)

**Pair SoundLink Mini II and Bluetooth device.**

**Note:** Make sure to remove the 3.5mm connector from the AUX jack. The product switches to AUX when a connector is inserted.

**5.1** Remove power from the unit and turn on the SoundLink Mini II.

**Note:** Removing power will test the units ability to play audio from the battery also.

**5.2** Press and hold the Bluetooth button until the LED blinks blue to make the unit discoverable.

**5.3** From the Bluetooth device list, select the device named “Bose Mini II SoundLink”. Once paired, the LED on the unit should turn a solid white and a voice prompt will identify what device you have connected to.

**Note:** If you are prompted for a pass code, enter 0000.

**5.4** Play a familiar audio track from the Bluetooth device.

**5.5** Listen for a clean undistorted sound with no audio drop outs.

**6. Speakerphone Test**

**6.1** Using the cell phone, pair to the SoundLink Mini II via Bluetooth.

**6.2** Using a different phone, make a call to the bluetooth connected cell phone.

**6.3** The product will announce an incoming call. Answer the call using the multifunction button.

**6.4** Listen on the second phone as you talk into the SoundLink Mini II for clear, undistorted audio from its microphone.

**Note:** The microphone on the SoundLink Mini II is located on a PCB mounted on the back right of the product.

**7. Battery Charging/ USB Port Test**

**7.1** Connect a USB current meter between the power adapter and the SoundLink Mini II.

**7.2** Confirm the reading on the current meter is 1.5A.

**Note:** It is possible the reading will be a number less than 1.5 if the battery is close to being fully charged.

**7.3** Connect a USB current meter between a computer and the SoundLink Mini II.

**7.4** Confirm the reading on the current meter is 0.5A.

**Note:** It is possible the reading will be a number less than 0.5 if the battery is close to being fully charged.

**8. Battery Level Check - Optional Test**

**8.1** Enter TAP command “ba 4” to read the battery voltage level.

**8.2** The results are returned in percentage of charge. Example: The unit responds with 80 = 80% of a full charge.

**9. Battery Age Check**

**9.1** The battery is not able to supply age information by TAP. Use the product’s Date Of Manufacture (DOM) to estimate the battery age or the DOM printed on the battery. The DOM is the 8th,9th,10th,11th number in the serial number in the from YDDD.

Example: 4175 is the 175th day of 2104 or June 24th, 2014.

**9.2** The battery should be less than 30 months old.

# TEST PROCEDURES

**10. Factory Default Unit**

Before returning the product to the customer, the unit must be factory defaulted to remove any settings that were changed during testing and also to clear any test bluetooth devices from the pairing list. The unit must then be placed into the ship mode to prevent the unit from turning on during shipping from an inadvertent button press.

**10.1** Issue TAP command “fd” to factory default the unit. The unit will respond with “OK”.

**10.2** Issue TAP command “sh” to put the unit into ship mode. The unit will respond with “OK”.

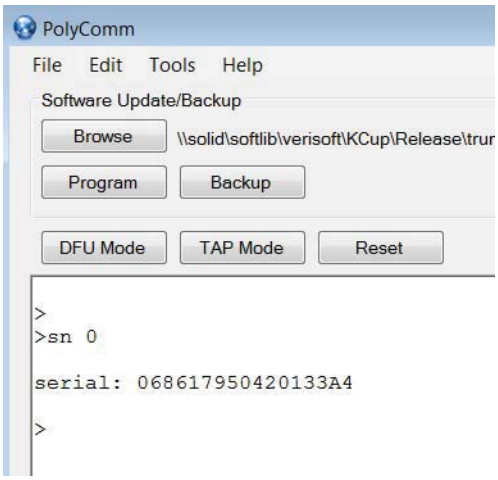
**10.3** Disconnect the USB power cable from the product.

**10.4** Press the power button and ensure the SoundLink Mini II does not turn on indicating it is in the ship mode.

**Note:** The unit will not respond to button presses while in the ship mode. When power is connected to the unit, it will come out of ship mode and operate normally.

**11. Reading the Serial Number**

The serial number for the SoundLink® Mini II is located on the bottom foot. If the foot is missing or the number is unreadable, use the TAP command “sn 0” to read the serial number from the products memory.




**11. Additional TAP Commands**

**sh 99** - Reman Ship Mode; places the unit a special remanufacturing mode. It should only be used for units that will sit in storage for a period of time.

This command is used to drain the battery or charge the battery, depending on how much the battery is charged.

If the battery charge is to high, the LED’s will turn on until the battery drains to a lower level, then goes into ship mode.

If the battery has a charge is too low, the battery will be charged to a higher level, then go into ship mode.

If the battery is ok for storage, then the battery will go directly into ship mode.

Only perform the sh 99 command if the product will be in storage for a long period of time. A typical repair that will be sent back to a customer does not require the command.

**11.1** Connect power using the USB cable from the computer to the SoundLink Mini II.

**11.2** Press the power button to turn off the SoundLink Mini II.

**11.3** Issue TAP command “sh 99”.

**11.4** Disconnect power.

# SERVICE MANUAL REVISION HISTORY

| Revision | Date | Description | Page # |
|---|---|---|---|
| 00 | 6/2015 | Initial Release | All |
| 01 | 6/2015 | Change sh 99 command. The product must be turned off to execute this command. | pg 30 |
| 02 | 7/2015 | New foot part number added 756361-0010 | pg 7 |
| 03 | 8/2015 | New front and rear baffle part numbers<br>From 357404-0010 to 357404-0020<br>From 357405-0010 to 357405-0020 | pg 7 |
| 04 | 9/2015 | I/O, Amp and Boost boards changed.<br>from 716544-001S to 716544-002S PCB ASSY, SOUNDLINK MINI BT 2, IO, SVCE<br>From 716527-001S to 716527-002S PCB ASSY, KCUP, AMP, SVCE<br>From 716536-001S to 716536-002S PCB ASSY, SOUNDLINK MINI BT 2, BOOST, SVCE | pg 7 |
| 05 | 9/2015 | Added velco strip part number | pg 8 |
| 06 | 10/2015 | Foot part number added APAC | pg 8 |
| 07 | 10/2015 | Top Cap part number change from 728773 to 757367. | pg 8 |
| 08 | 10/2015 | New part numbers for the shrink wrap | pg 8 |
| 09 | 10/2015 | Added bulk pack part numbers for grilles | pg 8 |
| 10 | 12/2015 | Add TAP command to retrieve serial number. | pg 33 |
| 11 | 1/2016 | Front grills had incorrect colors listed. | pg 8 |
| 12 | 1/2016 | Worldwide power supply changed from -0020 and -0021 to -0030 and -0031. Also added new part number for main board - 755974-002S | pg 5<br>pg 7 |

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