

Bose[®] Solo 15/10 Series II

TV sound system



CONTENTS

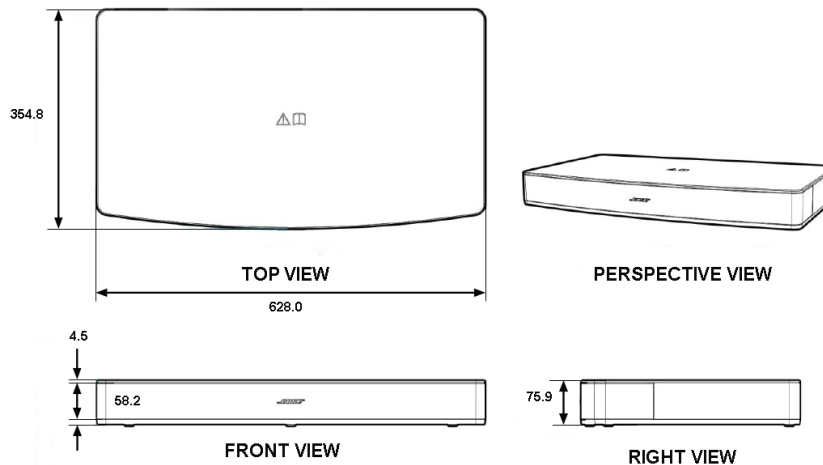
Title	Page
PRODUCT DESCRIPTION	3
SAFETY INFORMATION	3
ELECTROSTATIC DISCHARGE SENSITIVE (ESDS) DEVICE HANDLING	4
WARRANTY	4
PART LIST NOTES	4
PACKAGING PART LIST	5
Figure 1.Packaging Exploded View	6
MAIN ASSEMBLY PART LIST	7
Figure 2. Main Assembly Exploded View	8
MAIN PCB PART LIST	9-29
IR PCB PART LIST	30
DISASSEMBLY PROCEDURES	31-33
TAP COMMAND SETUP	34
FUNCTIONAL TEST PROCEDURES	35-37
TAP COMMAND	38
SERVICE MANUAL REVISION HISTORY	39

PRODUCT DESCRIPTION

Bose® Solo 15/10 Series II TV sound system is designed to fit under TVs that weigh no more than 75 lbs (34 kg) and have bases no wider than 24" (61 cm), and no deeper than 12.25" (31 cm). Bose Solo 15/10 Series II TV sound system come with built in Bluetooth connectivity for music play back from mobile devices. The enclosure contains 5 drivers, which are not shielded, an amplifier/power supply and IR PCB.

The Bose Solo 15 has a metal grille and is packaged with a programmable universal remote.

The Bose Solo 10 has a cloth grille and is packaged with a simple remote.



SAFETY INFORMATION

1. Parts that have special safety characteristics are identified by the  symbol on schematics or by special notes on the parts list. Use only replacement parts that have critical characteristics recommended by the manufacturer.
2. Refer to the Hi-POT test on page 37 of this service manual.

CAUTION: The Bose® Solo 15/10 Series II TV sound system contains no user-serviceable parts. To prevent warranty infractions, refer servicing to warranty service stations or factory service.

PROPRIETARY INFORMATION

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF BOSE CORPORATION WHICH IS BEING FURNISHED ONLY FOR THE PURPOSE OF SERVICING THE IDENTIFIED BOSE PRODUCT BY AN AUTHORIZED BOSE SERVICE CENTER, AND SHALL NOT BE REPRODUCED OR USED FOR ANY OTHER PURPOSE.

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, bubble wrap or plastic trays.

WARRANTY

The Bose® Solo 15/10 Series II TV sound system 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

Packaging Part List (see Figure 1)

Item	Description	Material Number	Qty	Variant	Notes
1	SAFETY LABEL, TOP COVER	356754-001S	1		3 
2	CABLE, OPTICAL	629769-0010	1		
3	PULP TRAY	628935-0010	2		
4	EPE BAG PRODUCT	721802-0010	1		
5	CARTON, OPF, TV SOLO 15 II	637746-0040	1		
	CARTON, OPF, TV SOLO 10 II	637746-0050	1		
6	INNER CARD STRENGTHEN U TYPE	638012-0010	1		
7	HAND CARRY	373581-0010	1		
	BOX HAND CARRY	373583-0010	1		
8	NEW GLOBAL WARRANTY CARD/ PRODUCT REGISTRATION CARD	324486-0010	1		
	LETTER, COMMITMENT	343108-0010	1		
	CONTACT, SHEET, ADOBO	722935-0020	1		
	GUIDE, OWNERS, SOLO, 15, 10, SII, AST	754062-0010	1	AP	3 
	GUIDE, OWNERS, SOLO, 15, 10, SII, EUR	754063-0010	1	EU	
	GUIDE, OWNERS, SOLO, 15, 10, SII, APAC	754064-0010	1	AP	
	GUIDE, OWNERS, SOLO, 15, 10, SII, JPN	754065-0010	1	JPN	
	GUIDE, UNIVERSAL, REMOTE, CODES, LRG, AST	748622-0010	1	US	
	GUIDE, UNIVERSAL, REMOTE, CODES, LRG, EUR	748623-0010	1	AP, EU	
	GUIDE, UNIVERSAL, REMOTE, CODES, LRG, APAC	748624-0010	1	JP	
9	LINE CORD, US	262814-1310	1	US	3 
	LINE CORD, EU	280135-1310	1	EU, AP	
	LINE CORD, JP	280136-1310	1	JP	
	LINE CORD, UK	280138-1310	1	AP	
	LINE CORD, AUS	284243-1310	1	AP	
	LINE CORD, KR	311668-1310	1	AP	
	LINE CORD, 110V, TAIWAN	329792-1310	1	AP	
	BATTERY, CARBON, AA SIZE	147538	2		
	REMOTE, IR, WASABI/CEYLON, US, BLK (Bulk Remote)	714543-1020	1	US	
	REMOTE, IR, WASABI/CEYLON, EU, BLK (Bulk Remote)	714543-1220	1	AP, EU	
	REMOTE, IR, WASABI/CEYLON, JP, AP, BLK (Bulk Remote)	714543-1320	1	JP	
	REMOTE CONTROL, IR, 8 BUTTON, CEYLON	736257-0010	1		
	CABLE, RCA	185931-101	1		
	CABLE, DIGITAL COAX	342771-1010	1	EU	
N/A	I/O LABEL A, SOLO 15	742389-001S	1		
	I/O LABEL B, SOLO 10	742389-002S	1		
	I/O SN LABEL	751279-001S	1		
	LABEL, WAFER, SEALING, 2.5 X 2.5IN, CLEAR	355963-0010	1		

PACKAGING DRAWING

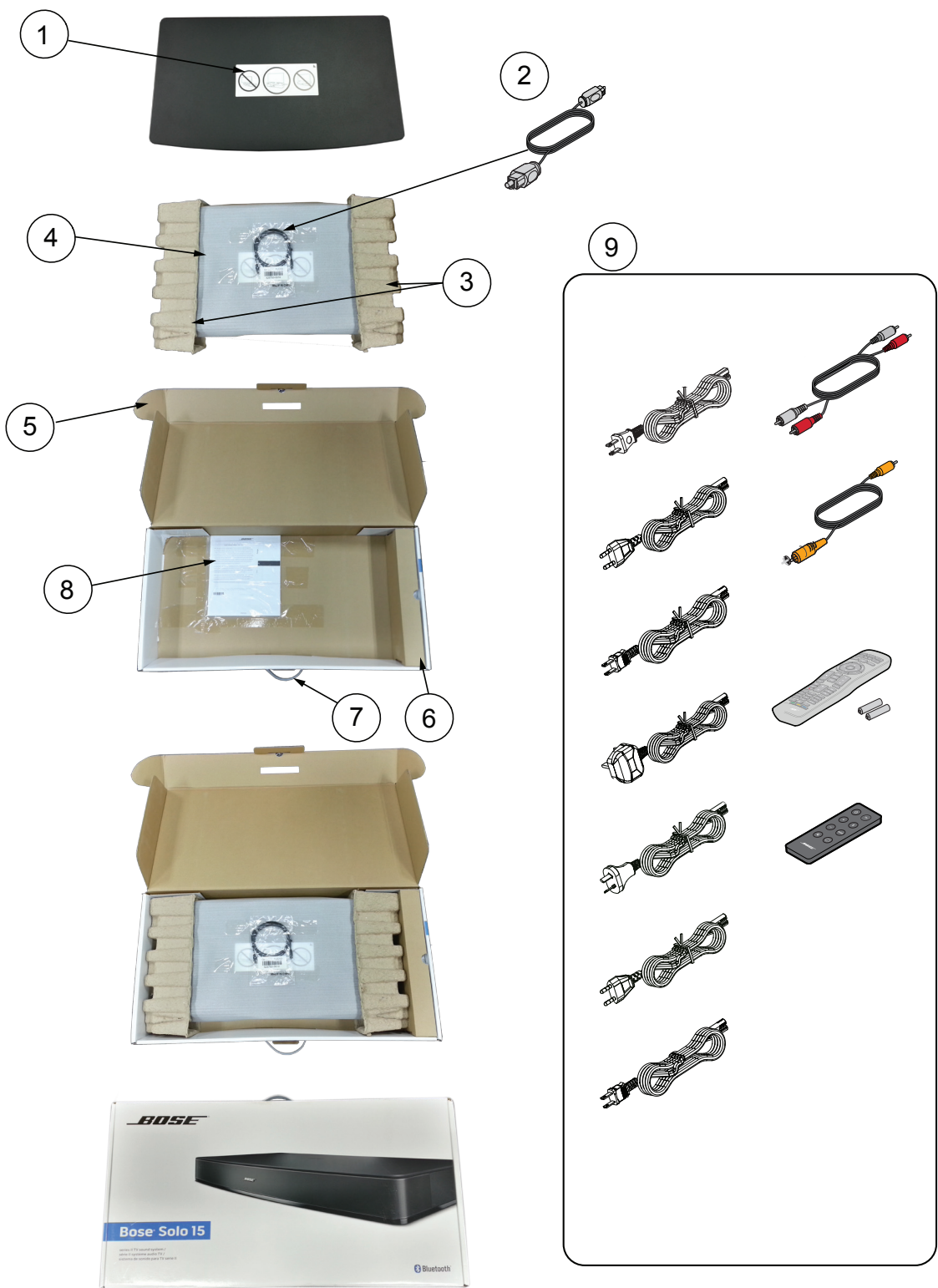


Figure 1. Packaging Exploded View

MAIN ASSEMBLY PART LIST

Main Assembly Part List (see Figure 2)

Item	Material Number	Description	Qty	Notes
1	716906-001S	TOP COVER (INCLUDE RUBBER CAP)	1	
2	716897-0010	RUBBER TUBE (ON TOP CAP PINS)	5	
3	715491-0010	TWIDDLER, 58MM, FERRITE, 8OHMS	5	
4	716901-0010	TRANSDUCER HARNESS, LEFT, LONG, WITH OVERMOLD	1	
5	716902-0010	TRANSDUCER HARNESS, RIGHT, SHORT, WITH OVER-MOLD	1	
6	358953-0010	SCREW,S-TAP,M3X12,BINDING,PH (TRANSDUCER *20, PCB CAP *6, LED board *2W)	32	AST, EUR, APAC
	358953-0010	SCREW,S-TAP,M3X12,BINDING,PH	26	JPN
6A	752479-0010	SCREW,TORX,M3X12	6	JPN
7	716896-0010	SCREW, M3X12 (FOR CLOTH GRILLE)	2	
8	716895-0010	RUBBER STOPPER(FOR CLOTH GRILLE)	2	
9	716904-001S	GRILL, METAL (WITH NAME PLATE AND FELT)	1	
	751280-001S	GRILL, CLOTH (WITH NAME PLATE AND FELT)	1	
10	751283-0010	FPC for IR PCBA	1	
11	716898-0010	GROMMET ROUND (FOR CLOTH GRILLE)	8	
12	716899-0010	GROMMET RECTANGULAR (FOR CLOTH GRILLE)	2	
13	748935-001S	PCB ASSY, IR, SOLO 15-10 SII, SVCE	1	
14	358955-0010	SCREW, M3.5X8, SHIELD, POWER SUPPLY	4	
15	358954-0020	SCREW T4X15 TOP_CAP 31+PORT 2+PCBA 5	38	
16	748932-001S	PCB ASSY, MAIN, SOLO 15-10 SII, SVCE	1	
17	716907-001S	PCB COVER (INCLUDE FOAM)	1	
18	352906-0010	ROUND FOOT	6	

MAIN ASSEMBLY DRAWING

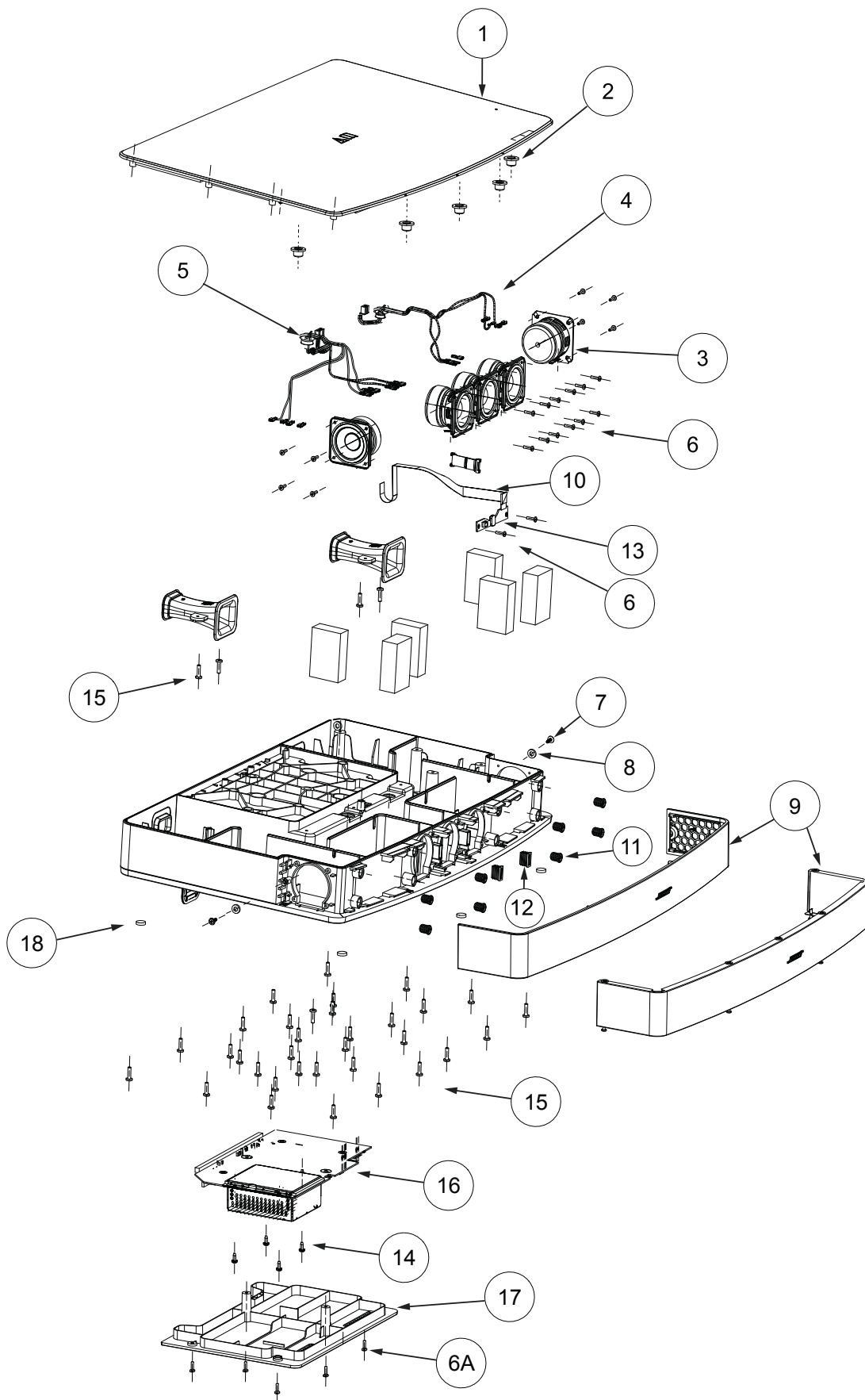


Figure 2. Main Assembly Exploded View

MAIN PCB PART LIST

Resistors

Reference Designator	Note	Vendor Material Number	Notes
R201	CHIP 10K OHM 100PPM +-1% 0402 WALS L	268361-1002	
R202	CHIP 10K OHM 100PPM +-1% 0402 WALS L	268361-1002	
R203	CHIP 10 OHM 100PPM +-1% 0402 WALS L	268361-10R0	
R204	CHIP 100 OHM 100PPM +-1% 0402 WALS L	268361-1000	
R205	CHIP 33 OHM 100PPM +-1% 0402 WALS L	268361-33R0	
R207	CHIP 10K OHM 100PPM +-1% 0402 WALS L	268361-1002	
R208	CHIP 100 OHM 100PPM +-1% 0402 WALS L	268361-1000	
R209	CHIP 100 OHM 100PPM +-1% 0402 WALS L	268361-1000	
R211	CHIP 33 OHM 100PPM +-1% 0402 WALS L	268361-33R0	
R212	CHIP 3.32K OHM 100PPM +-1% 0402 WALS L	268361-3321	
R213	CHIP 3.32K OHM 100PPM +-1% 0402 WALS L	268361-3321	
R214	CHIP 33 OHM 100PPM +-1% 0402 WALS L	268361-33R0	
R215	CHIP 33 OHM 100PPM +-1% 0402 WALS L	268361-33R0	
R216	CHIP 1M OHM 100PPM +-1% 0402 WALS L	268361-1004	
R217	CHIP 100 OHM 100PPM +-1% 0402 WALS L	268361-1000	
R218	CHIP 10K OHM 100PPM +-1% 0402 WALS L	268361-1002	
R219	CHIP 100 OHM 100PPM +-1% 0402 WALS L	268361-1000	
R220	CHIP 33 OHM 100PPM +-1% 0402 WALS L	268361-33R0	
R221	CHIP 1K OHM 100PPM +-1% 0402 WALS L	268361-1001	
R222	CHIP 33 OHM 100PPM +-1% 0402 WALS L	268361-33R0	
R223	CHIP 4.7K OHM 200PPM +-5% 0603 WALSI L	199403-472	
R224	CHIP 33 OHM 100PPM +-1% 0402 WALS L	268361-33R0	
R225	CHIP 47.5K OHM 100PPM +-1% 0402 WALS L	268361-4752	
R226	CHIP 100 OHM 100PPM +-1% 0402 WALS L	268361-1000	
R228	CHIP 100 OHM 100PPM +-1% 0402 WALS L	268361-1000	
R229	CHIP 100 OHM 100PPM +-1% 0402 WALS L	268361-1000	
R232	CHIP 100 OHM 100PPM +-1% 0402 WALS L	268361-1000	
R233	CHIP 4.75K OHM 100PPM +-1% 0402 WALS L	268361-4751	
R234	CHIP 10K OHM 100PPM +-1% 0402 WALS L	268361-1002	
R235	CHIP 10K OHM 100PPM +-1% 0402 WALS L	268361-1002	
R236	CHIP 33 OHM 100PPM +-1% 0402 WALS L	268361-33R0	
R301	CHIP 10 OHM 100PPM +-1% 0402 WALS L	268361-10R0	
R304	CHIP 10K OHM 100PPM +-1% 0402 WALS L	268361-1002	
R308	CHIP 33 OHM 100PPM +-1% 0402 WALS L	268361-33R0	
R501	CHIP 49.9K OHM 100PPM +-1% 0402 WALS L	268361-4992	
R502	CHIP 10K OHM 100PPM +-1% 0402 WALS L	268361-1002	
R503	CHIP 10K OHM 100PPM +-1% 0402 WALS L	268361-1002	
R507	CHIP 787 OHM 100PPM +-1% 0402 WALS L	268361-7870	
R508	CHIP 787 OHM 100PPM +-1% 0402 WALS L	268361-7870	
R509	CHIP 787 OHM 100PPM +-1% 0402 WALS L	268361-7870	

MAIN PCB PART LIST

Resistors (continued)

Reference Designator	Note	Vendor Material Number	Notes
R510	CHIP 787 OHM 100PPM +-1% 0402 WALS L	268361-7870	
R511	CHIP 787 OHM 100PPM +-1% 0402 WALS L	268361-7870	
R512	CHIP 787 OHM 100PPM +-1% 0402 WALS L	268361-7870	
R514	CHIP 787 OHM 100PPM +-1% 0402 WALS L	268361-7870	
R515	CHIP 787 OHM 100PPM +-1% 0402 WALS L	268361-7870	
R516	CHIP 787 OHM 100PPM +-1% 0402 WALS L	268361-7870	
R517	CHIP 787 OHM 100PPM +-1% 0402 WALS L	268361-7870	
R518	CHIP 4.22K OHM 100PPM +-1% 0603 WALS L	191465-4221	
R521	CHIP 120K OHM 100PPM +-1% 0402 WALS L	N/A	
R551	CHIP 4.22K OHM 100PPM +-1% 0603 WALS L	191465-4221	
R552	CHIP 4.22K OHM 100PPM +-1% 0603 WALS L	191465-4221	
R553	CHIP 4.22K OHM 100PPM +-1% 0603 WALS L	191465-4221	
R554	CHIP 4.22K OHM 100PPM +-1% 0603 WALS L	191465-4221	
R601	CHIP 1K OHM 100PPM +-1% 0402 WALS L	268361-1001	
R602	CHIP 1K OHM 100PPM +-1% 0402 WALS L	268361-1001	
R603	CHIP 100K OHM 100PPM +-1% 0402 WALS L	268361-1003	
R604	CHIP 1K OHM 100PPM +-1% 0402 WALS L	268361-1001	
R605	CHIP 1K OHM 100PPM +-1% 0402 WALS L	268361-1001	
R606	CHIP 10 OHM 100PPM +-1% 0402 WALS L	268361-10R0	
R607	CHIP 10 OHM 100PPM +-1% 0402 WALS L	268361-10R0	
R608	CHIP 10 OHM 200PPM +-5% 0805 WALS L	133625-10R0	
R609	CHIP 10 OHM 200PPM +-5% 0805 WALS L	133625-10R0	
R610	CHIP 10 OHM 200PPM +-5% 0805 WALS L	133625-10R0	
R611	CHIP 10 OHM 200PPM +-5% 0805 WALS L	133625-10R0	
R612	CHIP 10 OHM 200PPM +-5% 0805 WALS L	133625-10R0	
R613	CHIP 10 OHM 200PPM +-5% 0805 WALS L	133625-10R0	
R614	CHIP 10 OHM 200PPM +-5% 0805 WALS L	133625-10R0	
R615	CHIP 10 OHM 200PPM +-5% 0805 WALS L	133625-10R0	
R618	CHIP 33 OHM 200PPM +-5% 0603 WALSI L	199403-330	
R619	CHIP 33 OHM 200PPM +-5% 0603 WALSI L	199403-330	
R620	CHIP 33 OHM 200PPM +-5% 0603 WALSI L	199403-330	
R621	CHIP 33 OHM 200PPM +-5% 0603 WALSI L	199403-330	
R632	CHIP 3.01K OHM 100PPM +-1% 0603 WALS L	191465-3011	
R633	CHIP 3.01K OHM 100PPM +-1% 0603 WALS L	191465-3011	
R634	CHIP 3.01K OHM 100PPM +-1% 0603 WALS L	191465-3011	
R635	CHIP 3.01K OHM 100PPM +-1% 0603 WALS L	191465-3011	
R636	CHIP 3.01K OHM 100PPM +-1% 0603 WALS L	191465-3011	
R637	CHIP 3.01K OHM 100PPM +-1% 0603 WALS L	191465-3011	
R638	CHIP 3.01K OHM 100PPM +-1% 0603 WALS L	191465-3011	
R639	CHIP 3.01K OHM 100PPM +-1% 0603 WALS L	191465-3011	

MAIN PCB PART LIST

Resistors (continued)

Reference Designator	Note	Vendor Material Number	Notes
R671	CHIP 49.9 OHM 100PPM +-1% 0805 WALS L	133625-49R9	
R672	CHIP 49.9 OHM 100PPM +-1% 0805 WALS L	133625-49R9	
R673	CHIP 49.9 OHM 100PPM +-1% 0805 WALS L	133625-49R9	
R674	CHIP 49.9 OHM 100PPM +-1% 0805 WALS L	133625-49R9	
R675	CHIP 20K OHM 100PPM +-1% 0603 WALS L	191465-2002	
R676	CHIP 20K OHM 100PPM +-1% 0603 WALS L	191465-2002	
R677	CHIP 20K OHM 100PPM +-1% 0603 WALS L	191465-2002	
R678	CHIP 20K OHM 100PPM +-1% 0603 WALS L	191465-2002	
R701	CHIP 332K OHM 100PPM +-1% 0402 WALS K	N/A	
R702	CHIP 2.2 OHM 400PPM +-5% 0805 WALS L	133626-2R25	
R703	CHIP 100K OHM 100PPM +-1% 0402 WALS L	268361-1003	
R704	CHIP 0.51 OHM 200PPM +-5% 1206 WALS G	N/A	
R705	CHIP 13.3K OHM 100PPM +-1% 0402 WALS L	268361-1332	
R706	CHIP 56.2K OHM 100PPM +-1% 0402 WALS L	N/A	
R707	CHIP 82.5K OHM 100PPM +-1% 0402 WALS L	268361-8252	
R708	CHIP 2.15K OHM 100PPM +-1% 0402 WALS L	N/A	
R709	CHIP 100K OHM 100PPM +-1% 0402 WALS L	268361-1003	
R710	CHIP 1K OHM 100PPM +-1% 0402 WALS L	268361-1001	
R711	CHIP 15.4K OHM 100PPM +-1% 0402 WALS L	N/A	
R713	CHIP 1K OHM 100PPM +-1% 0402 WALS L	268361-1001	
R714	CHIP 47.5K OHM 100PPM +-1% 0402 WALS L	268361-4752	
R716	CHIP 10 OHM 100PPM +-1% 0402 WALS L	268361-10R0	
R723	CHIP 2.2 OHM 400PPM +-5% 0805 WALS L	133626-2R25	
R724	CHIP 100K OHM 100PPM +-1% 0402 WALS L	268361-1003	
R729	CHIP 10K OHM 100PPM +-1% 0402 WALS L	268361-1002	
R730	CHIP 5.36K OHM 100PPM +-1% 0402 WALS L	268361-5361	
R734	CHIP 100 OHM 100PPM +-1% 0402 WALS L	268361-1000	
R735	CHIP 100 OHM 100PPM +-1% 0402 WALS L	268361-1000	
R771	CHIP 2.55K OHM 100PPM +-1% 0402 WALS L	268361-2551	
R772	CHIP 7.87K OHM 100PPM +-1% 0402 WALS L	268361-7871	
R901	CHIP 100 OHM 100PPM +-1% 0603 WALS L	N/A	
R902	CHIP 10K OHM 100PPM +-1% 0402 WALS L	268361-1002	
R903	CHIP 10K OHM 100PPM +-1% 0402 WALS L	268361-1002	
R904	CHIP 100 OHM 100PPM +-1% 0603 WALS L	N/A	
R905	CHIP 100 OHM 100PPM +-1% 0402 WALS L	268361-1000	
R906	CHIP 100 OHM 100PPM +-1% 0402 WALS L	268361-1000	
R907	CHIP 100 OHM 100PPM +-1% 0603 WALS L	N/A	
R908	CHIP 200 OHM 200PPM +-5% 0603 WALS L	199403-201	
R909	CHIP 100 OHM 100PPM +-1% 0603 WALS L	N/A	
R910	CHIP 10K OHM 100PPM +-1% 0402 WALS L	268361-1002	

MAIN PCB PART LIST

Resistors (continued)

Reference Designator	Note	Vendor Material Number	Notes
R911	CHIP 10K OHM 100PPM +-1% 0402 WALS L	268361-1002	
R912	CHIP 33K OHM 100PPM +-1% 0402 WALS L	N/A	
R913	CHIP 22K OHM 100PPM +-1% 0402 WALS L	N/A	
R914	CHIP 10K OHM 100PPM +-1% 0402 WALS L	268361-1002	
R915	CHIP 68K OHM 100PPM +-1% 0402 WALS L	N/A	
R916	CHIP 22K OHM 100PPM +-1% 0402 WALS L	N/A	
R917	CHIP 68K OHM 100PPM +-1% 0402 WALS L	N/A	
R918	CHIP 33K OHM 100PPM +-1% 0402 WALS L	N/A	
R919	CHIP 100 OHM 100PPM +-1% 0603 WALS L	N/A	
R920	CHIP 100 OHM 100PPM +-1% 0603 WALS L	N/A	
R921	CHIP 100 OHM 100PPM +-1% 0603 WALS L	N/A	
R1001	CHIP 10 OHM 200PPM +-5% 0603 WALS L	199403-100	
R1002	CHIP 100 OHM 100PPM +-1% 0402 WALS L	268361-1000	
R1003	CHIP 75 OHM 200PPM +-5% 0603 WALS L	199403-750	
R1004	CHIP 75 OHM 200PPM +-5% 0603 WALS L	199403-750	
R1005	CHIP 2.2K OHM 200PPM +-5% 0603 WALS L	199403-222	
R1006	CHIP 100 OHM 100PPM +-1% 0402 WALS L	268361-1000	
R1007	CHIP 100 OHM 100PPM +-1% 0402 WALS L	268361-1000	
R1008	CHIP 330 OHM 200PPM +-5% 0603 WALS L	199403-331	
R1015	CHIP 1K OHM 100PPM +-1% 0402 WALS L	268361-1001	
R1016	CHIP 2.32K OHM 100PPM +-1% 0402 WALS L	268361-2321	
R1009	CHIP 330 OHM 200PPM +-5% 0603 WALS L	199403-331	
R1010	CHIP 100 OHM 200PPM +-5% 0805 WALS L	133626-1015	
R1011	CHIP 100 OHM 200PPM +-5% 0805 WALS L	133626-1015	
R1012	CHIP 10K OHM 100PPM +-1% 0402 WALS L	268361-1002	
R1013	CHIP 330 OHM 200PPM +-5% 0603 WALS L	199403-331	
R1014	CHIP 330 OHM 200PPM +-5% 0603 WALS L	199403-331	
R1017	CHIP 4.75K OHM 100PPM +-1% 0402 WALS L	268361-4751	
R1018	CHIP 18.2K OHM 100PPM +-1% 0603 WALS L	191465-1822	
R1019	CHIP 1K OHM 100PPM +-1% 0402 WALS L	268361-1001	
R1020	CHIP 100 OHM 100PPM +-1% 0402 WALS L	268361-1000	
R1021	CHIP 100 OHM 100PPM +-1% 0402 WALS L	268361-1000	
R1024	CHIP 100 OHM 100PPM +-1% 0402 WALS L	268361-1000	
R1025	CHIP 15K OHM 100PPM +-1% 0603 WALS L	191465-1502	
R1026	CHIP 15K OHM 100PPM +-1% 0603 WALS L	191465-1502	
R1027	CHIP 100 OHM 100PPM +-1% 0402 WALS L	268361-1000	
R1102	CHIP 4.99K OHM 100PPM +-1% 0805 WALS L	133625-4991	
R1104	CHIP 4.99K OHM 100PPM +-1% 0805 WALS L	133625-4991	
R1106	CHIP 10K OHM 100PPM +-1% 0603 WALS L	191465-1002	
R1109	CHIP 10K OHM 100PPM +-1% 0603 WALS L	191465-1002	

MAIN PCB PART LIST

Resistors (continued)

Reference Designator	Note	Vendor Material Number	Notes
R1134	CHIP 4.7 OHM 200PPM +-5% 0603 WALS L	199403-4R7	
R1135	CHIP 4.7 OHM 200PPM +-5% 0603 WALS L	199403-4R7	
R1137	CHIP 1K OHM 100PPM +-1% 0402 WALS L	268361-1001	
R1139	CHIP 100 OHM 100PPM +-1% 0402 WALS L	268361-1000	
R1140	CHIP 100 OHM 100PPM +-1% 0402 WALS L	268361-1000	
R1142	CHIP 10K OHM 100PPM +-1% 0603 WALS L	191465-1002	
R1201	CHIP 33 OHM 200PPM +-5% 1206 WALS L	124895-3305	
R1202	CHIP 237K OHM 100PPM +-1% 1206 WALS L	N/A	
R1203	CHIP 750 OHM 100PPM +-1% 1206 WALS L	124895-7515	
R1204	CHIP 10 OHM 200PPM +-5% 0603 WALS L	199403-100	
R1205	CHIP 1 OHM 100PPM +-1% 0603 WALS L	191465-01R0	
R1206	CHIP 34K OHM 100PPM +-1% 0603 WALS L	191465-3402	
R1207	CHIP 14K OHM 100PPM +-1% 0603 WALS L	191465-1402	
R1208	CHIP 71.5K OHM 100PPM +-1% 0402 WALS L	268361-7152	
R1209	CHIP 2M OHM 200PPM +-5% 1206 WALS L	124895-2055	
R1210	CHIP 25.5K OHM 100PPM +-1% 0603 WALS L	191465-2552	
R1211	CHIP 2M OHM 200PPM +-5% 1206 WALS L	124895-2055	
R1212	CHIP 2M OHM 200PPM +-5% 1206 WALS L	124895-2055	
R1301	CHIP 100K OHM 100PPM +-1% 0402 WALS L	268361-1003	
R1302	CHIP 10 OHM 200PPM +-5% 0603 WALS L	199403-100	
R1303	CHIP 499 OHM 100PPM +-1% 0603 WALS L	191465-4990	
R1304	CHIP 10 OHM 200PPM +-5% 0603 WALS L	199403-100	
R1306	CHIP 2.49K OHM 100PPM +-1% 0603 WALS L	191465-2491	
R1307	CHIP 249K OHM 100PPM +-1% 0603 WALS L	191465-2493	
R1308	CHIP 4.22K OHM 100PPM +-1% 0603 WALS L	191465-4221	
R1309	CHIP 102K OHM 100PPM +-1% 0603 WALS L	191465-1023	
R1311	CHIP 150K OHM 100PPM +-1% 0402 WALS L	268361-1503	
R1312	CHIP 619K OHM 100PPM +-1% 1206 WALS L	N/A	
R1313	CHIP 619K OHM 100PPM +-1% 1206 WALS L	N/A	
R1314	CHIP 619K OHM 100PPM +-1% 1206 WALS L	N/A	
R1315	CHIP 619K OHM 100PPM +-1% 1206 WALS L	N/A	
R1316	CHIP 100K OHM 100PPM +-1% 0402 WALS L	268361-1003	
R1317	CHIP 100K OHM 100PPM +-1% 0402 WALS L	268361-1003	
R1318	CHIP 100K OHM 100PPM +-1% 0402 WALS L	268361-1003	
R1319	CHIP 100K OHM 100PPM +-1% 0402 WALS L	268361-1003	
R1320	CHIP 20K OHM 100PPM +-1% 0402 WALS L	268361-2002	
R1322	CHIP 1K OHM 100PPM +-1% 0603 WALS L	199403-102	
R1323	CHIP 11.8K OHM 100PPM +-1% 0603 WALS L	191465-1182	
R1324	CHIP 1K OHM 100PPM +-1% 0603 WALS L	199403-102	
R1351	CHIP 100K OHM 100PPM +-1% 0402 WALS L	268361-1003	

MAIN PCB PART LIST

Resistors (continued)

Reference Designator	Note	Vendor Material Number	Notes
R1352	CHIP 10K OHM 100PPM +-1% 0402 WALS L	268361-1002	
R1401	CHIP 10K OHM 100PPM +-1% 0402 WALS L	268361-1002	
R1403	CHIP 1K OHM 100PPM +-1% 0402 WALS L	268361-1001	
R1404	CHIP 1K OHM 100PPM +-1% 0402 WALS L	268361-1001	
R1405	CHIP 10 OHM 100PPM +-1% 0402 WALS L	268361-10R0	
R1406	CHIP 10 OHM 200PPM +-5% 0805 WALS L	133625-10R0	
R1407	CHIP 10 OHM 200PPM +-5% 0805 WALS L	133625-10R0	
R1408	CHIP 33 OHM 200PPM +-5% 0603 WALSI L	199403-330	
R1409	CHIP 3.01K OHM 100PPM +-1% 0603 WALS L	191465-3011	
R1410	CHIP 3.01K OHM 100PPM +-1% 0603 WALS L	191465-3011	
R1411	CHIP 49.9 OHM 100PPM +-1% 0805 WALS L	133625-49R9	
R1412	CHIP 20K OHM 100PPM +-1% 0603 WALS L	191465-2002	
R1501	CHIP 100K OHM 100PPM +-1% 0402 WALS L	268361-1003	
R1502	CHIP 47.5K OHM 100PPM +-1% 0402 WALS L	268361-4752	
R1601	CHIP 4.75K OHM 100PPM +-1% 0402 WALS L	268361-4751	
R1602	CHIP 4.75K OHM 100PPM +-1% 0402 WALS L	268361-4751	
R1604	CHIP 10K OHM 100PPM +-1% 0402 WALS L	268361-1002	
R1605	CHIP 330 OHM 200PPM +-5% 0603 WALS L	199403-331	
R1606	CHIP 330 OHM 200PPM +-5% 0603 WALS L	199403-331	
R1607	CHIP 1K OHM 100PPM +-1% 0402 WALS L	268361-1001	

MAIN PCB PART LIST

Capacitors

Reference Designator	Note	Vendor Material Number	Notes
C201	CAP X5R 1.0UF 6.3V +-10% 0402	N/A	
C202	CAP NPO 100PF 50V +-5% 0402 SAMSUN L	N/A	
C203	CAP NPO 27PF 50V +-5% 0402 SAMSUN L	N/A	
C204	CAP X7R 1000P 16V +-10% 0402 KEMET L	293702-102	
C205	CAP NPO 22PF 50V +-5% 0402 SAMSUN L	N/A	
C206	CAP NPO 27PF 50V +-5% 0402 SAMSUN L	N/A	
C207	CAP NPO 22PF 50V +-5% 0402 SAMSUN L	N/A	
C208	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C209	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C212	CAP NPO 180PF 50V +-5% 0402 SAMSUN L	N/A	
C213	CAP NPO 180PF 50V +-5% 0402 SAMSUN L	N/A	
C214	CAP NPO 180PF 50V +-5% 0402 SAMSUN L	N/A	
C215	CAP NPO 180PF 50V +-5% 0402 SAMSUN L	N/A	
C216	CAP X7R 1000P 16V +-10% 0402 KEMET L	293702-102	
C301	CAP X5R 100UF 6.3V +-20% 1206 SAMSUN L	N/A	
C302	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C303	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C304	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C305	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C306	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C307	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C308	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C309	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C310	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C311	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C312	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C313	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C314	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C315	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C316	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C317	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C318	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C320	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C321	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C322	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C323	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C325	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C326	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C327	CAP X5R 1.0UF 6.3V +-10% 0402	N/A	
C328	CAP X5R 1.0UF 6.3V +-10% 0402	N/A	

MAIN PCB PART LIST

Capacitors (continued)

Reference Designator	Note	Vendor Material Number	Notes
C329	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C330	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C331	CAP X5R 1.0UF 6.3V +-10% 0402	N/A	
C332	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C333	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C334	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C335	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C336	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C337	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C338	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C339	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C340	CAP X7R 1000P 16V +-10% 0402 KEMET L	293702-102	
C341	CAP X7R 1000P 16V +-10% 0402 KEMET L	293702-102	
C342	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C343	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C344	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C345	CAP X7R 1000P 16V +-10% 0402 KEMET L	293702-102	
C346	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C347	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C348	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C349	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C350	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C351	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C352	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C353	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C354	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C355	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C358	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C359	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C362	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C363	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C366	CAP 10UF 6.3V +-20% 0603X5R SAMSUNG L	N/A	
C367	CAP 10UF 6.3V +-20% 0603X5R SAMSUNG L	N/A	
C403	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C404	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C405	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C406	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C407	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C408	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C409	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	

MAIN PCB PART LIST

Capacitors (continued)

Reference Designator	Note	Vendor Material Number	Notes
C410	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C502	CAP X7R 1.0UF 16V +-10% 0805 MURATA L	273596-105	
C503	CAP X7R 10UF 10V +-10% 1206 SAMSUN L	N/A	
C504	CAP X7R 1000P 16V +-10% 0402 KEMET L	293702-102	
C505	CAP X7R 10UF 10V +-10% 1206 SAMSUN L	N/A	
C506	CAP X7R .01UF 50V +-10% 0603 SAMSUNG L	N/A	
C516	CAP X7R .10UF 50V +-10% 0603 SAMSUNG L	N/A	
C517	CAP X7R .10UF 50V +-10% 0603 SAMSUNG L	N/A	
C601	CAP X7R 1.0UF 25V +-10% 0603 WALSIN L	N/A	
C602	CAP X7R 1.0UF 25V +-10% 0603 WALSIN L	N/A	
C603	CAP X7R 1.0UF 25V +-10% 0603 WALSIN L	N/A	
C604	CAP X7R 1.0UF 25V +-10% 0603 WALSIN L	N/A	
C605	CAP X7R 1.0UF 25V +-10% 0603 WALSIN L	N/A	
C606	CAP X7R 1.0UF 50V +-10% 1206 KEMET L	286500-105	
C607	CAP X7R 1.0UF 25V +-10% 0603 WALSIN L	N/A	
C608	CAP X7R 1.0UF 50V +-10% 1206 KEMET L	286500-105	
C609	CAP X7R 1.0UF 25V +-10% 0603 WALSIN L	N/A	
C610	CAP X7R 1.0UF 25V +-10% 0603 WALSIN L	N/A	
C611	CAP X7R 1.0UF 50V +-10% 1206 KEMET L	286500-105	3 
C612	CAP X7R 1.0UF 50V +-10% 1206 KEMET L	286500-105	
C613	CAP 1000P 50V +-10% 0603X7R WALSIN L	304991-102	3 
C614	CAP 1000P 50V +-10% 0603X7R WALSIN L	304991-102	
C615	CAP 1000P 50V +-10% 0603X7R WALSIN L	304991-102	
C616	CAP 1000P 50V +-10% 0603X7R WALSIN L	304991-102	3 
C619	CAP X7R .22UF 50V +-10% 0805 SAMSUN L	N/A	
C617	CAP X7R .22UF 50V +-10% 0805 SAMSUN L	N/A	
C618	CAP X7R .22UF 50V +-10% 0805 SAMSUN L	N/A	
C621	CAP X7R .22UF 50V +-10% 0805 SAMSUN L	N/A	
C622	CAP X7R .22UF 50V +-10% 0805 SAMSUN L	N/A	
C623	CAP X7R .22UF 50V +-10% 0805 SAMSUN L	N/A	
C625	CAP X7R .22UF 50V +-10% 0805 SAMSUN L	N/A	
C627	CAP X7R .22UF 50V +-10% 0805 SAMSUN L	N/A	
C629	CAP X7R 1.0UF 50V +-10% 1206 KEMET L	286500-105	3 
C630	CAP X7R 1.0UF 50V +-10% 1206 KEMET L	286500-105	
C631	CAP X7R 1.0UF 50V +-10% 1206 KEMET L	286500-105	

MAIN PCB PART LIST

Capacitors (continued)

Reference Designator	Note	Vendor Material Number	Notes
C632	CAP X7R 470PF 50V +-10% 0603 SAMSUN L	N/A	
C633	CAP X7R 470PF 50V +-10% 0603 SAMSUN L	N/A	
C634	CAP X7R 1.0UF 50V +-10% 1206 KEMET L	286500-105	3 
C635	CAP X7R 470PF 50V +-10% 0603 SAMSUN L	N/A	
C636	CAP X7R 470PF 50V +-10% 0603 SAMSUN L	N/A	
C637	CAP X7R 470PF 50V +-10% 0603 SAMSUN L	N/A	
C638	CAP X7R 470PF 50V +-10% 0603 SAMSUN L	N/A	
C639	CAP X7R 470PF 50V +-10% 0603 SAMSUN L	N/A	
C640	CAP X7R 470PF 50V +-10% 0603 SAMSUN L	N/A	
C641	CAP .22UF 50V +-10% 1206X7R KEMET L	286500-224	3 
C642	CAP .22UF 50V +-10% 1206X7R KEMET L	286500-224	3 
C643	CAP .22UF 50V +-10% 1206X7R KEMET L	286500-224	3 
C644	CAP .22UF 50V +-10% 1206X7R KEMET L	286500-224	
C645	CAP .22UF 50V +-10% 1206X7R KEMET L	286500-224	3 
C646	CAP .22UF 50V +-10% 1206X7R KEMET L	286500-224	3 
C647	CAP .22UF 50V +-10% 1206X7R KEMET L	286500-224	3 
C648	CAP .22UF 50V +-10% 1206X7R KEMET L	286500-224	
C649	CAP .10UF 50V +-10% 0805X7R WALSIN L	286499-104	
C650	CAP .10UF 50V +-10% 0805X7R WALSIN L	286499-104	
C651	CAP .10UF 50V +-10% 0805X7R WALSIN L	286499-104	
C652	CAP .10UF 50V +-10% 0805X7R WALSIN L	286499-104	
C654	CAP .10UF 50V +-10% 0805X7R WALSIN L	286499-104	
C655	CAP .10UF 50V +-10% 0805X7R WALSIN L	286499-104	
C656	CAP .10UF 50V +-10% 0805X7R WALSIN L	286499-104	
C657	CAP .10UF 50V +-10% 0805X7R WALSIN L	286499-104	
C659	CAP .10UF 50V +-10% 0805X7R WALSIN L	286499-104	3 
C660	CAP .10UF 50V +-10% 0805X7R WALSIN L	286499-104	3 
C661	CAP .10UF 50V +-10% 0805X7R WALSIN L	286499-104	3 
C662	CAP .10UF 50V +-10% 0805X7R WALSIN L	286499-104	3 
C663	CAP .10UF 50V +-10% 0805X7R WALSIN L	286499-104	3 

MAIN PCB PART LIST

Capacitors (continued)

Reference Designator	Note	Vendor Material Number	Notes
C664	CAP .10UF 50V +-10% 0805X7R WALSIN L	286499-104	3 
C665	CAP .10UF 50V +-10% 0805X7R WALSIN L	286499-104	3 
C666	CAP .10UF 50V +-10% 0805X7R WALSIN L	286499-104	3 
C671	CAP .10UF 50V +-10% 0805X7R WALSIN L	286499-104	3 
C672	CAP .10UF 50V +-10% 0805X7R WALSIN L	286499-104	3 
C673	CAP .10UF 50V +-10% 0805X7R WALSIN L	286499-104	
C674	CAP .10UF 50V +-10% 0805X7R WALSIN L	286499-104	
C701	CAP X7R 4.7UF 50V +-10% 1210 KEMET(fail open)	542054757506	
C702	CAP .10UF 50V +-10% 0805X7R WALSIN L	286499-104	3 
C703	CAP X7R 2.2UF 50V +-10% 1206 SAMSUN L	N/A	
C704	CAP X7R 470PF 50V +-10% 0603 SAMSUN L	N/A	
C707	CAP X7R 33NF 25V +-10% 0402 WALSIN L	N/A	
C708	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C709	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C710	CAP 22UF 16V +-10% 1206X5R SAMSUNG L	N/A	
C711	CAP 10UF 6.3V +-20% 0603X5R SAMSUNG L	N/A	
C712	CAP 22UF 16V +-10% 1206X5R SAMSUNG L	N/A	
C713	CAP 10UF 6.3V +-20% 0603X5R SAMSUNG L	N/A	
C714	CAP X7R .01UF 50V +-10% 0402 WALSIN L	N/A	
C715	CAP NPO 10PF 50V +-.50PF 0402 SAMSUN L	N/A	
C716	CAP X7R .33UF 50V +-10% 0805 KEMET L	133623-334	
C718	CAP X7R .10UF 50V +-10% 0603 SAMSUNG L	N/A	
C720	CAP X7R 1.0UF 16V +-10% 0805 MURATA L	273596-105	
C721	E 22UF 16V +-20% D:5MM VE-220M1C G	177902-220C	
C722	E 22UF 16V +-20% D:5MM VE-220M1C G	177902-220C	
C723	E 22UF 16V +-20% D:5MM VE-220M1C G	177902-220C	
C729	CAP X7R 2.2UF 50V +-10% 1206 SAMSUN L	N/A	
C730	CAP X7R 470PF 50V +-10% 0603 SAMSUN L	N/A	
C731	CAP 10UF 6.3V +-20% 0603X5R SAMSUNG L	N/A	
C732	CAP 10UF 6.3V +-20% 0603X5R SAMSUNG L	N/A	
C733	CAP X7R .33UF 50V +-10% 0805 KEMET L	133623-334	
C741	CAP NPO 180PF 50V +-5% 0402 SAMSUN L	N/A	
C742	CAP NPO 180PF 50V +-5% 0402 SAMSUN L	N/A	

MAIN PCB PART LIST

Capacitors (continued)

Reference Designator	Note	Vendor Material Number	Notes
C771	CAP X7R 1.0UF 25V +-10% 0603 WALSIN L	N/A	
C772	CAP X7R .10UF 50V +-10% 0603 SAMSUNG L	N/A	
C776	E 220UF 16V +-20% 6.3*7. VZH221M1C K	N/A	
C777	E 220UF 16V +-20% 6.3*7. VZH221M1C K	N/A	
C801	CAP 10UF 6.3V +-20% 0603X5R SAMSUNG L	N/A	
C901	CAP NPO 180PF 50V +-5% 0402 SAMSUN L	N/A	
C902	CAP NPO 180PF 50V +-5% 0402 SAMSUN L	N/A	
C903	CAP NPO 180PF 50V +-5% 0402 SAMSUN L	N/A	
C904	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C906	CAP NPO 180PF 50V +-5% 0402 SAMSUN L	N/A	
C907	CAP NPO 180PF 50V +-5% 0402 SAMSUN L	N/A	
C908	CAP NPO 180PF 50V +-5% 0402 SAMSUN L	N/A	
C1001	CAP X7R .047U 50V +-10% 0603 SAMSUN L	N/A	
C1002	CAP NPO 180PF 50V +-5% 0603 SAMSUN L	N/A	
C1003	CAP NPO 100PF 50V +-5% 0603 SAMSUNG L	N/A	
C1004	CAP NPO 180PF 50V +-5% 0603 SAMSUN L	N/A	
C1005	CAP X7R .047U 50V +-10% 0603 SAMSUN L	N/A	
C1007	CAP NPO 47PF 50V +-5% 0603 WALSIN L	188454-470	
C1008	CAP NPO 47PF 50V +-5% 0603 WALSIN L	188454-470	
C1009	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C1010	E 10UF 16V +-20% 4*5.5 VE-100M1C G	177902-100C	
C1011	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C1013	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C1104	CAP NPO 180PF 50V +-5% 0603 SAMSUN L	N/A	
C1106	CAP NPO 180PF 50V +-5% 0603 SAMSUN L	N/A	
C1108	E 0.47U 50V +-20% D:4MM(VE-R47M1H G	177902-R47H	
C1110	E 0.47U 50V +-20% D:4MM(VE-R47M1H G	177902-R47H	
C1124	E 10UF 16V +-20% 4*5.5 VE-100M1C G	177902-100C	
C1125	E 10UF 16V +-20% 4*5.5 VE-100M1C G	177902-100C	
C1126	E 10UF 16V +-20% 4*5.5 VE-100M1C G	177902-100C	
C1127	CAP X7R .10UF 50V +-10% 0603 SAMSUNG L	N/A	
C1128	CAP X7R .10UF 50V +-10% 0603 SAMSUNG L	N/A	
C1129	CAP X7R .10UF 50V +-10% 0603 SAMSUNG L	N/A	
C1130	CAP NPO 18PF 50V +-5% 0402 SAMSUNG L	N/A	
C1131	CAP NPO 180PF 50V +-5% 0603 SAMSUN L	N/A	
C1132	CAP NPO 180PF 50V +-5% 0603 SAMSUN L	N/A	
C1136	CAP X7R 1000P 50V +-10% 0603 SAMSUN L	N/A	
C1138	CAP X7R 1000P 50V +-10% 0603 SAMSUN L	N/A	
C1139	CAP X7R 1000P 50V +-10% 0603 SAMSUN L	N/A	

MAIN PCB PART LIST

Capacitors (continued)

Reference Designator	Note	Vendor Material Number	Notes
C1201	CAP X7R 1.0UF 50V +-10% 1206 KEMET L	286500-105	3 
C1202	CAP X7R 1000P 500V +-10% 1210 WALSIN L	N/A	
C1203	CAP X7R .10UF 50V +-10% 0603 SAMSUNG L	N/A	
C1204	CER-DIP 33PF 500V +-10% Y WKP330KC S	269857-330	3 
C1205	CER-DIP 33PF 500V +-10% Y WKP330KC S	269857-330	3 
C1206	CER-DIP 100PF 300V +-10% X DE1B3KX1 G	N/A	
C1207	CER-DIP 100PF 300V +-10% X DE1B3KX1 G	N/A	3 
C1208	CER-DIP 100PF 300V +-10% X DE1B3KX1 G	N/A	3 
C1209	E 100UF 35V +-20% 6.3MM VEJ101M1V K	N/A	
C1210	CAP X7R .10UF 50V +-10% 0603 SAMSUNG L	N/A	
C1211	CAP .10UF 50V +-10% 0603X7R WALSIN L	304991-104	3 
C1212	CAP X7R 1.0UF 50V +-10% 1206 KEMET L	286500-105	3 
C1213	CER-DIP 470PF 250V +-10% X DE1B3KX4 G	323670-0010	
C1214	CAP NPO 47PF 50V +-5% 0603 WALSIN L	188454-470	
C1215	CER-DIP 100PF 300V +-10% X DE1B3KX1 G	N/A	
C1216	E 100UF 450V +-20% 25X25 LSK101M2W G	N/A	
C1217	CAP X7R .15UF 500V +-10% 1210 KEMET L	359772-154K	
C1218	CAP X7R .10UF 50V +-10% 0603 SAMSUNG L	N/A	
C1220	CER-DIP 470PF 250V +-10% X DE1B3KX4 G	323670-0010	
C1222	CER-DIP 0.33UF 305V +-20% 1 B32922C3 G	310415-334ME	3 
C1224	CER-DIP 0.1UF 275V +-20% 1 R46KF310 S	268166-104A	
C1227	CAP X7R .15UF 500V +-10% 1210 KEMET L	359772-154K	
C1301	CAP NPO 100PF 50V +-5% 0402 SAMSUN L	N/A	
C1302	CAP X7R 1.0UF 50V +-10% 1206 KEMET L	286500-105	3 
C1303	CAP X7R 1000P 50V +-10% 0603 SAMSUN L	N/A	
C1304	CER-DIP 0.68UF 305V +-20% X B32922C3 G	N/A	3 
C1305	CAP X7R .10UF 50V +-10% 0603 SAMSUNG L	54202104750E	
C1309	CAP X7R 1.0UF 50V +-10% 1206 KEMET L	286500-105	3 
C1312	CAP 3300P 50V +-10% 0805X7R WALSIN L	286499-332	3 
C1314	CAP .10UF 50V +-10% 0603X7R WALSIN L	304991-104	

MAIN PCB PART LIST

Capacitors (continued)

Reference Designator	Note	Vendor Material Number	Notes
C1315	CAP X7R .22UF 50V +-10% 0805 SAMSUN L	N/A	
C1316	E 220UF 35V +-20% D:8MM EMZA350AD K	N/A	
C1318	E 1000U 35V +-20% 13X25 RXJ102M1V G	N/A	
C1321	E 1000U 35V +-20% 13X25 RXJ102M1V G	N/A	
C1401	CAP X7R 1.0UF 25V +-10% 0603 WALSIN L	N/A	
C1402	CAP X7R 1.0UF 50V +-10% 1206 KEMET L	286500-105	3 
C1403	CAP X7R 1.0UF 25V +-10% 0603 WALSIN L	N/A	
C1404	CAP X7R 1.0UF 50V +-10% 1206 KEMET L	286500-105	3 
C1405	CAP 1000P 50V +-10% 0603X7R WALSIN L	304991-102	3 
C1406	CAP 1000P 50V +-10% 0603X7R WALSIN L	304991-102	3 
C1408	CAP X7R .22UF 50V +-10% 0805 SAMSUN L	N/A	
C1409	CAP X7R .22UF 50V +-10% 0805 SAMSUN L	N/A	
C1412	CAP X7R 1.0UF 50V +-10% 1206 KEMET L	286500-105	3 
C1414	CAP X7R 470PF 50V +-10% 0603 SAMSUN L	N/A	
C1415	CAP X7R 1.0UF 50V +-10% 1206 KEMET L	286500-105	3 
C1416	CAP X7R 470PF 50V +-10% 0603 SAMSUN L	N/A	
C1417	CAP .22UF 50V +-10% 1206X7R KEMET L	286500-224	
C1418	CAP .10UF 50V +-10% 0805X7R WALSIN L	286499-104	
C1419	CAP .22UF 50V +-10% 1206X7R KEMET L	286500-224	
C1420	CAP .10UF 50V +-10% 0805X7R WALSIN L	286499-104	
C1421	CAP .10UF 50V +-10% 0805X7R WALSIN L	286499-104	
C1422	CAP .10UF 50V +-10% 0805X7R WALSIN L	286499-104	
C1423	CAP .10UF 50V +-10% 0805X7R WALSIN L	286499-104	3 
C1501	CAP X5R .47UF 16V +-10% 0402 WALSIN L	N/A	
C1502	CAP X5R 2.2UF 6.3V +-10% 0402 WALSIN L	329485-225M	
C1503	CAP X5R 2.2UF 6.3V +-10% 0402 WALSIN L	329485-225M	
C1505	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C1506	CAP X5R .47UF 16V +-10% 0402 WALSIN L	N/A	
C1507	CAP X7R .10UF 16V +-10% 0402 SAMSUN L	N/A	
C1508	CAP X5R 2.2UF 6.3V +-10% 0402 WALSIN L	329485-225M	
C1509	CAP X7R .01UF 50V +-10% 0402 WALSIN L	N/A	
C1511	CAP NPO 15PF 50V +-5% 0402 WALSIN L	N/A	
C1512	CAP X5R 2.2UF 6.3V +-10% 0402 WALSIN L	329485-225M	
C1513	CAP X7R .01UF 50V +-10% 0402 WALSIN L	N/A	
C1514	CAP X5R 4.7UF 6.3V +-20% 0402 WALSIN L	N/A	

MAIN PCB PART LIST

Capacitors (continued)

Reference Designator	Note	Vendor Material Number	Notes
C1515	CAP X5R 2.2UF 6.3V +/-10% 0402 WALSIN L	329485-225M	
C1516	CAP X7R .01UF 50V +/-10% 0402 WALSIN L	N/A	
C1602	CAP 0.4PF 50V +/-0.1PF 0402NPO WALSIN H	N/A	
C1603	CAP NPO 22PF 50V +/-5% 0402 SAMSUN L	N/A	
C1604	CAP X7R .01UF 50V +/-10% 0402 WALSIN L	N/A	

MAIN PCB PART LIST

Diodes

Reference Designator	Note	Vendor Material Number	Notes
BR1201	DIODE 600V 3A GBL06-E3\45 VISHA G	311102-0600	
D1001	SWITC 75V 215MA BAV99DW-7-F DII K	319113-001	
D1003	SWITC 75V 215MA BAV99-13-01-F DIODE K	147239	
D1004	SWITC 75V 215MA BAV99-13-01-F DIODE K	147239	
D1005	SWITC 75V 215MA BAV99-13-01-F DIODE K	147239	
D1006	SWITC 75V 215MA BAV99-13-01-F DIODE K	147239	
D1102	SWITC 75V 215MA BAV99-13-01-F DIODE K	147239	
D1104	SWITC 75V 215MA BAV99-13-01-F DIODE K	147239	
D1201	SWITC 30V 1A MBR130T1G ON SE G	317122-001	
D1202	DIODE 600V 1A ES1J FAIRC G	317066-600	
D1203	SWITC 75V 150MA 1N4148W-13-01-F DIODE K	257662	
D1204	SWITC 75V 150MA 1N4148W-13-01-F DIODE K	257662	
D1301	SWITC 170V 5A STPS10170CG-TR ST S	329305-0010	
D1302	SWITC 75V 150MA 1N4148W-13-01-F DIODE K	257662	

MAIN PCB PART LIST

Transistors

Reference Designator	Note	Vendor Material Number	Notes
Q201	PNP 40V MMBT3906-13- SOT23 DIODES K	148596	
Q901	NPN 40V MMBT3904-13- SOT23 DIODES K	146819	
Q902	NPN 40V MMBT3904-13- SOT23 DIODES K	146819	
Q903	NPN 40V MMBT3904-13- SOT23 DIODES K	146819	
Q904	NPN 40V MMBT3904-13- SOT23 DIODES K	146819	
Q905	NPN 40V MMBT3904-13- SOT23 DIODES K	146819	
Q906	NPN 40V MMBT3904-13- SOT23 DIODES K	146819	
Q907	PNP 40V MMBT3906-13- SOT23 DIODES K	148596	
Q908	NPN 40V MMBT3904-13- SOT23 DIODES K	146819	
Q909	PNP 40V MMBT3906-13- SOT23 DIODES K	148596	
Q1001	NPN 40V MMBT3904-13- SOT23 DIODES K	146819	
Q1002	NPN 40V MMBT3904-13- SOT23 DIODES K	146819	
Q1003	PNP 40V MMBT3906-13- SOT23 DIODES K	148596	
Q1106	NMOS 60V 2N7002KQ-7 SOT23 DIODES G	N/A	
Q1207	NMOS 30V FCD7N60TM TO252(FAIRCH G	310519-001	
Q1301	PMOS -30V SI4435DDY-T1 SOP VISHAY H	N/A	
Q1304	NPN 40V MMBT3904-13- SOT23 DIODES K	146819	
Q1305	PNP 40V MMBT3906-13- SOT23 DIODES K	148596	
Q1306	PNP 40V MMBT3906-13- SOT23 DIODES K	148596	
Q1501	NMOS 60V 2N7002KQ-7 SOT23 DIODES G	N/A	
Q1601	NPN 40V MMBT3904-13- SOT23 DIODES K	146819	

MAIN PCB PART LIST

Integrated Circuits

Reference Designator	Note	Vendor Material Number	Notes
U201	MEMORY S25FL032P0XNFI WSON SPANSIO G	323017-32WS	
U202	MCU D808K023DPTP400 QFP-176 TI S	N/A	
U203	LOGIC NL17SZU04DFT2G SC70 ON SEMI G	330502-0010	
U204	LOGIC TPS3825-33DBVR SOT-23-5 TI G	289604-1033	
U403	MEMORY W9812G6JH-6 TSOP-54 WINBOND H	326334-0030	
U501	D/A PCM1606E2K SSOP20 TI G	346767-0010	
U502	LINEARITY TL331IDBVR SOT-23 TI K	TL331IDBVR	
U601	OP TPA3110D2PWPR TSSOP28 TI J	327287-0010	3 
U602	OP TPA3110D2PWPR TSSOP28 TI J	327287-0010	3 
U701	DC DC CVT TPS54335ADR SON-10 TI K	N/A	
U702	DC DC CVT TPS62110 S-PQFQ-N TI S	327362-1010	
U704	REG LD2981ABM50TR SOT-23 ST S	283384-5001	
U705	DC DC CVT TPS62110 S-PQFQ-N TI S	327362-1010	
U803	PHOTO TSOP34438SS1FBS DIP VISHAY W	319147-238	
U1001	A/D AK4112BVM SSOP-28 AKM G	361109-0010	
U1104	A/D AK5381ET TSSOP-16 AKM G	299343-001	
U1201	REG UCC28610DR SO8 TI G	348216-0010	
U1301	PHOTO CNY17F-1X007 SMD-6 VISHAY S	254120-002	
U1401	OP TPA3110D2PWPR TSSOP28 TI J	327287-0010	3 
U1501	MCU CSR8670-IBBH-R VFBGA112 CSR K	CSR8670C	
U1601	FILTER BLUETOOT 50 OHM 2.4GHZ WALSIN L	N/A	

MAIN PCB PART LIST

Miscellaneous

Reference Designator	Note	Vendor Material Number	Notes
FB301	BEAD 0805 1.5A 330OHM BLM21PG331SN1D L	267539-331	
FB302	BEAD 0805 1.5A 330OHM BLM21PG331SN1D L	267539-331	
FB303	FERITE BEAD 0603 120 OHM BLM18AG121SN1 L	351171-121	
FB304	FERITE BEAD 0603 120 OHM BLM18AG121SN1 L	351171-121	
FB305	FERITE BEAD 0603 120 OHM BLM18AG121SN1 L	351171-121	
FB306	BEAD FERRITE BLM18P 0603 330OHM BLM18PG H	302257-330	
FB701	FERRITE BEAD 0603 330 OHM BLM18HK331SN L	268373-331	
FB903	FERRITE BEAD 0603 330 OHM BLM18HK331SN L	268373-331	
FB1001	BEAD 0805 1.5A 330OHM BLM21PG331SN1D L	267539-331	
FB1101	BEAD 0805 1.5A 330OHM BLM21PG331SN1D L	267539-331	
FB1103	BEAD 0805 1.5A 330OHM BLM21PG331SN1D L	267539-331	
FB1201	FERITE BEAD 0603 120 OHM BLM18AG121SN1 L	351171-121	
F1301	FUSE DIP 250V 4A TE5 39214 G	310538-4000A	
J601	1*6 PIN 2.5MM W LOCK 53375-0610 W	N/A	
J602	CONN W_BOSS 2.5MM 4POS TOP-ENT DIP 533 G	N/A	
J901	CONN FFC SMT 1.0MM 11PIN 180° CF08111 K	N/A	
J1001	CONN RCA DIP 8.2MM 2PIN RJ-1120*31-130 K	N/A	
J1002	CONN OPTO-RECEIVER 2.54MM 3P GP1FMV31R S	328772-0010	
J1003	CONN USB_A SMT 2.0MM 4PIN UBA-4R-S14H- W	306363-001	
J1004	CONN PHONE JACK SMT 2.5MM 4PIN JY-3609 K	282721-002	
J1102	CONN PIN JACK DIP 7.5MM 2P AV2-8.3-13+ G	N/A	
J1302	CONN AC JACK SMT 10MM 2PIN KM01002A-P S	301125-001	3 
L601	CORE FERRIT ERF17 160NHIN 314442-160 G (mag-net)	314442-160	
L601A	CORE FERRIT ERF17 160NHIN 314442-160 G (mag-net)	314442-160	
L602A	CORE FERRIT ERF17 160NHIN 314442-160 G (mag-net)	314442-160	
L603A	CORE FERRIT ERF17 160NHIN 314442-160 G (mag-net)	314442-160	
L604A	CORE FERRIT ERF17 160NHIN 314442-160 G (mag-net)	314442-160	
L602	CORE FERRIT ERF17 160NHIN 314442-160 G (mag-net)	314442-160	
L603	CORE FERRIT ERF17 160NHIN 314442-160 G (mag-net)	314442-160	
L604	CORE FERRIT ERF17 160NHIN 314442-160 G (mag-net)	314442-160	
L701	10UH 1.15A 100K SMD TOKO #A916CY G	345388-100M	
L702	22UH 2.5A 10KH SMT TOKO #919AS- G	N/A	

MAIN PCB PART LIST

Miscellaneous (continued)

Reference Designator	Note	Vendor Material Number	Notes
L703	10UH 1.15A 100K SMD TOKO #A916CY G	345388-100M	
L1201	10MH 1A 1KHZ DIP CENKER CKTC130 G	N/A	3 
L1202	82UH 670MA 1KHZ DIP CENKER CKPP081 G	309310-820K	3 
L1203	82UH 670MA 1KHZ DIP CENKER CKPP081 G	309310-820K	3 
L1204	10MH 1A 1KHZ DIP CENKER CKTC130 G	N/A	3 
L1303	82UH 670MA 1KHZ DIP CENKER CKPP081 G	309310-820K	3 
L1304	82UH 670MA 1KHZ DIP CENKER CKPP081 G	309310-820K	3 
L1401	CORE FERRIT ERF17 160NHIN 314442-160 G (magnet)	314442-160	
L1401A	CORE FERRIT ERF17 160NHIN 314442-160 G (magnet)	314442-160	
L1501	4.7UH 300MA 60MH SMD TDK MLZ2012 L	N/A	
L1502	4.7UH 300MA 60MH SMD TDK MLZ2012 L	N/A	
SHLD1001	SHIELD OPTICAL SPCC SILVE NI-PL G	N/A	
SHLD902	FENCE DSP SPTE NATUR NI-PL H	349527-0010	
W202	CHIP 0 OHM 200PPM +-5% 0603 WALS L	196042	
W203	CHIP 0 OHM 200PPM +-5% 0402 WALS L	280043	
W371	CHIP 0 OHM 200PPM +-5% 0402 WALS L	280043	
W502	CHIP 0 OHM 200PPM +-5% 0603 WALS L	196042	
W603	CHIP 10K OHM 100PPM +-1% 0402 WALS L	268361-1002	
W605	CHIP 10K OHM 100PPM +-1% 0402 WALS L	268361-1002	
W608	CHIP 0 OHM 200PPM +-5% 0402 WALS L	280043	
W610	CHIP 0 OHM 200PPM +-5% 0402 WALS L	280043	
W701	CHIP 0 OHM 0 OHM 0 OHM 1206 WALSI L	124896	
W1201	CHIP 4.3 OHM 200PPM +-5% 0603 WALS L	N/A	
W1302	CHIP 0 OHM 200PPM +-5% 0402 WALS L	280043	
W1303	CHIP 0 OHM 200PPM +-5% 0603 WALS L	196042	
W1304	CHIP 0 OHM 200PPM +-5% 0603 WALS L	196042	
W1402	CHIP 0 OHM 200PPM +-5% 0402 WALS L	280043	
W1501	CHIP 0 OHM 200PPM +-5% 0402 WALS L	280043	
W1601	CHIP 0 OHM 200PPM +-5% 0402 WALS L	280043	
W1603	CHIP 0 OHM 200PPM +-5% 0402 WALS L	280043	
W1604	CHIP 0 OHM 200PPM +-5% 0402 WALS L	280043	
X201	CRYSTAL 24.576MH SMD NDK AT-41C G	269923-24R5C16	
X202	CRYSTAL 26MHZ HC-49 SIWARD XTL251 G	291429-005	

MAIN PCB PART LIST

Miscellaneous (continued)

Reference Designator	Note	Vendor Material Number	Notes
X1601	CRYSTAL 26MHZ SMD\3 SIWARD XTL571 L	N/A	
VR701	REG LD1117DT18TR DPAK ST S	267317-1118	
VR704	REG TL5209DR SOIC 8 TI H	312828-002	
VR1301	REG TL431AQDBZR SOT23-3P NXP G	330361-1030	
VR1302	MOV 420V V420LC20AP SMD LITTELFU G	273545-007	3 
ZR1201	ZD 20V 200MW +-1V SOD-32 DIODE G	310491-20A	
ZR1203	ZD 150V 1.5W + -5% SMA ON SE G	357194-0150	
T1201	TRANSF 24VD 90~2 10P WURTH WE7508113 G	370743-0010	

IR PCB PART LIST

Resistors

Reference Designator	Description	Material Number	Note
R801	CHIP 6.2K OHM 100PPM +-1% 0603 WALS L (IR)	N/A	
R802	CHIP 5.9K OHM 100PPM +-1% 0603 WALS L (IR)	N/A	
R803	CHIP 2.43K OHM 100PPM +-1% 0603 WALS L (IR)	N/A	
R804	CHIP 6.2K OHM 100PPM +-1% 0603 WALS L (IR)	N/A	
R805	CHIP 750 OHM 100PPM +-1% 0603 WALS L (IR)	N/A	
R807	CHIP 0 OHM 200PPM +-5% 0402 WALS L	N/A	
R808	CHIP 0 OHM 200PPM +-5% 0402 WALS L	N/A	

Capacitors

Reference Designator	Description	Material Number	Note
C802	CAP X7R 1000P 16V +-10% 0402 KEMET L	N/A	
C804	CAP X7R 1000P 16V +-10% 0402 KEMET L	N/A	
C807	CAP X7R 1000P 16V +-10% 0402 KEMET L	N/A	
C808	CAP X7R 1000P 16V +-10% 0402 KEMET L	N/A	
C809	CAP X7R 1000P 16V +-10% 0402 KEMET L	N/A	

Diode

Reference Designator	Description	Material Number	Note
D801	SWITC 75V 215MA BAV99-13-01-F DIODE K	N/A	

Integrated Circuit

Reference Designator	Description	Material Number	Note
U803	IC, Sensor, IR, RCVR, 38kHz, MTH	N/A	

Miscellaneous

Reference Designator	Description	Material Number	Note
DS801	LED RG LTST-C295KGKRKT LITEON (K	N/A	
LED801	WHITE WHI 0603 LTW-C193SN5 LITEON (H	N/A	
LED802	LED 468 0603 LTST-C193TBKT-5A LITEON (K	N/A	
LED803	WHITE WHI 0603 LTW-C193SN5 LITEON (H	N/A	
J801	CONN FFC SMT 1.0MM 11PIN CF08111H1R0-LF, 90°	N/A	

DISASSEMBLY PROCEDURES

1. PCB Cover Removal

1.1 Remove the 6 screws indicated in Figure 3.

1.2 Lift off the PCB Cover

2. Main PCB Removal

2.1 Perform procedure 1.

2.2 Remove the 5 screws indicated in Figure 4.

2.3 Disconnect the 2 cable connectors, and 1 ribbon cable from the Main PCB. Figure 5.

2.4 Lift up on the front of the PCB and then pull it forward so the rear connectors clear the enclosure openings.

Note: When replacing the Main PCB, ensure the ground wire is secured as shown in Figure 5. Also, ensure the speaker wire harness is located in the channel shown in Figure 5.

3. Top Cover Removal

3.1 Perform procedure 1 and 2.

3.2 Remove the 31 screws indicated in Figure 6. 13 screws inside the PCB well and 18 screws around the perimeter of the unit.

3.3 Flip the unit over and slowly lift off the top cover. Use care to prevent the gasket from being pulled away with the top cover. The gasket should remain in the channels of the enclosure.

Note: There is no replacement gasket available.

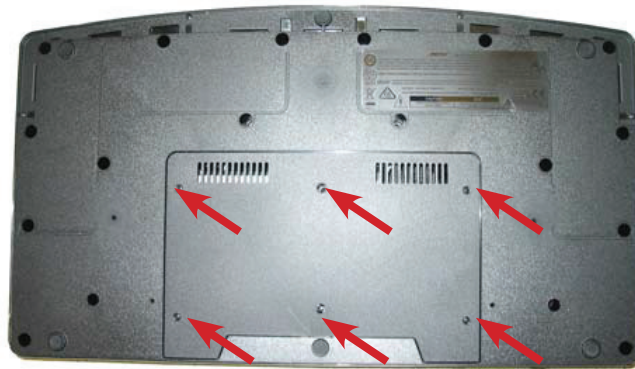


Figure 3. PCB Cover Removal

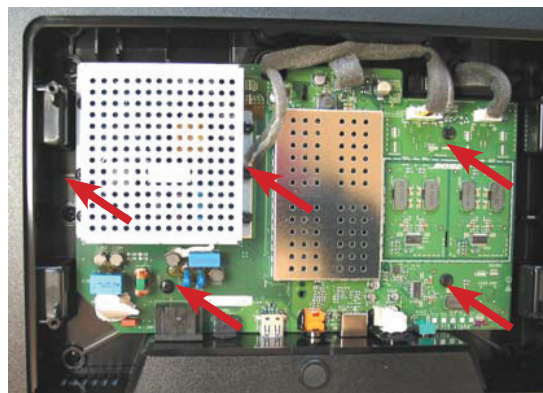


Figure 4. PCB Removal

Ground wire Speaker wire harness

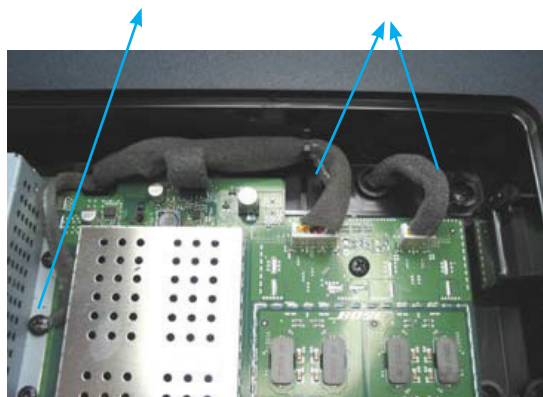


Figure 5. PCB Removal

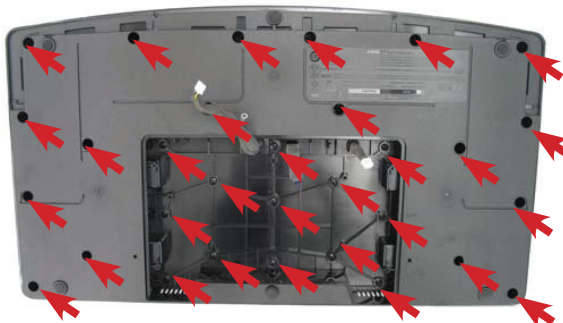


Figure 6. Top Cover Removal

DISASSEMBLY PROCEDURES

4A. Metal Grille Removal

4A.1 Perform procedure 3 first. The top cover must be removed because pins in the top cover fit into the grommets on the metal grille securing the top of the grille in place.

4A.2 On the bottom of the unit, remove the four screws securing the grille as indicated in Figure 7.

4A.3 Turn the unit over. Grasp the grille by the sides as indicated by the arrows in Figure 7A and pull forward to release the grille edge from the enclosure. Work the grille out of the cabinet using care not to bend the grille.

Note: When installing the metal grille, make sure the 5 rubber grommets are inserted in the grille holes indicated in Figure 7A. When installing the cover, ensure the 5 pins on the cover insert into the grommets to ensure proper grille alignment.

4B. Cloth Grill Removal

4B.1 Perform procedure 3 first. The top cover has to be removed to properly grasp the grill to remove it.

4B.2 Grasp a side edge of the grille and pull it straight forward to release the grille clip from the enclosure's clip catch. Do this for both the other side. See figure 7B and 8.

4B.3 After releasing the left and right side of the grille, pull the grille forward working toward the center releasing its posts from the grommets in the enclosure. See Figure 9.



Figure 7. Metal Grille Screw Removal

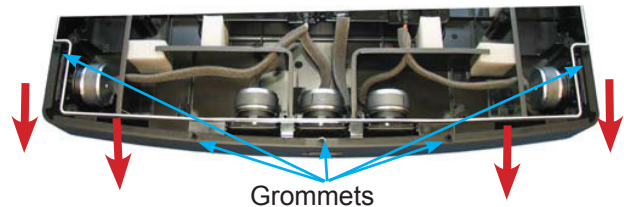


Figure 7A. Metal Grille Removal

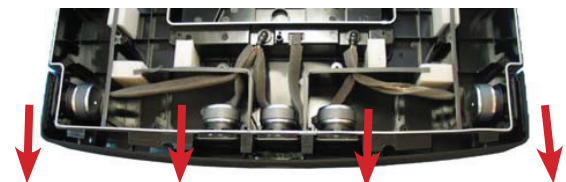


Figure 7B. Cloth Grille Removal

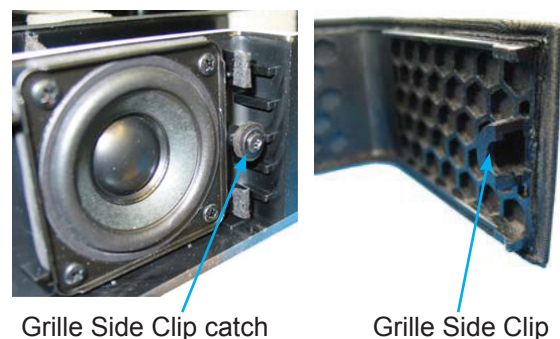
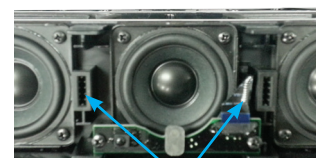


Figure 8. Cloth Grille Side Clip



Two rectangle grommets located front center



8 round grommets, 4 located on each side

Figure 9. Cloth Grille Enclosure Grommets Location

DISASSEMBLY PROCEDURES

5. Driver Removal

5.1 Perform procedures 4 first.

5.2 Remove the four screws securing the driver. Pull out the driver and disconnect the driver wire harness from the driver. See Figure 10.

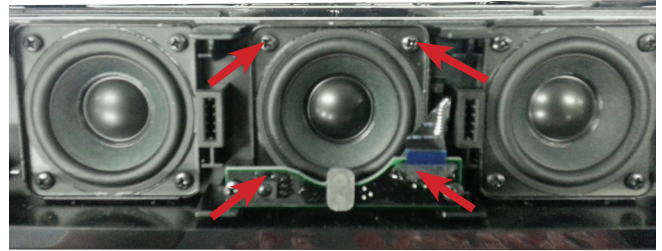
Note: To remove the center drive, perform procedure 6 first.

6. IR PCB Removal

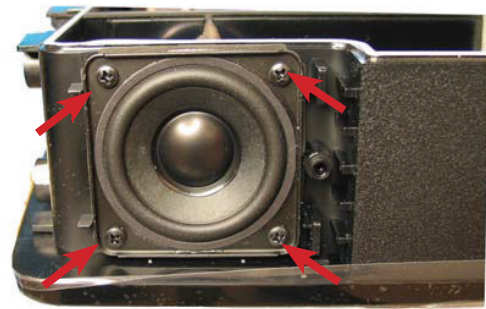
6.1 Perform procedures 4 first.

6.2 Disconnect the flat flex cable from the IR PCB.

6.3 Remove 2 screws securing the IR board. as indicated in Figure 11.



Three Side Drivers



Two Side Drivers

Figure 10. Driver Removal

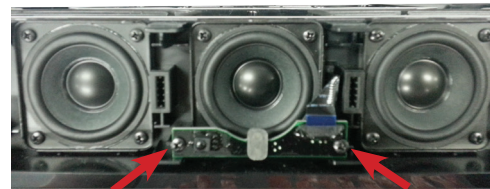


Figure 11. IP PCB Removal

TAP COMMAND SETUP

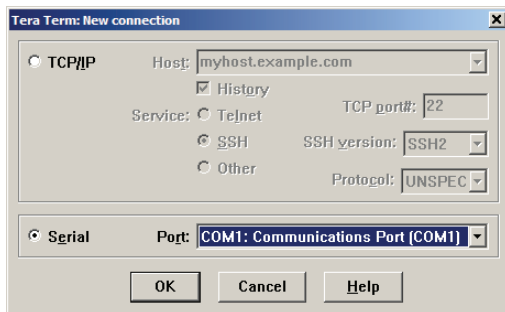
Required Items

1. TeraTerm terminal emulator - download at <http://sourceforge.jp/projects/ttssh2/>
2. TAP Cable part number 264565
3. RS232-TTL Converter - B&B electronics Model 232LPTTL or similar - <http://bb-elec.com>

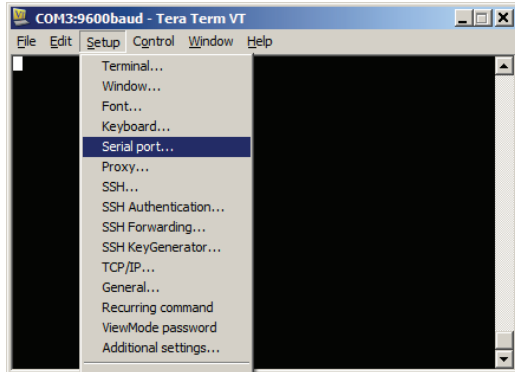
Setup

1. Connect the TAP cable, using a RS232-TTL converter, to your computer's COM port and the unit's DATA connector on the rear.

2.1 Select COM Port

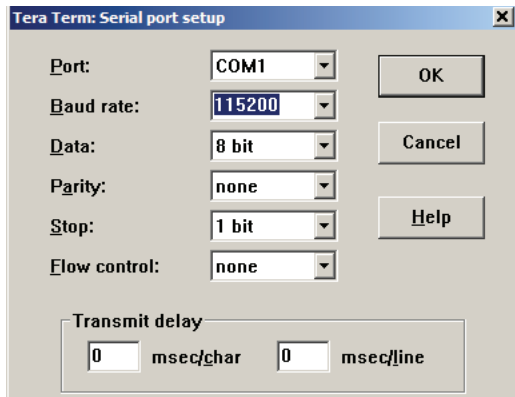


2.2 Select Serial Port

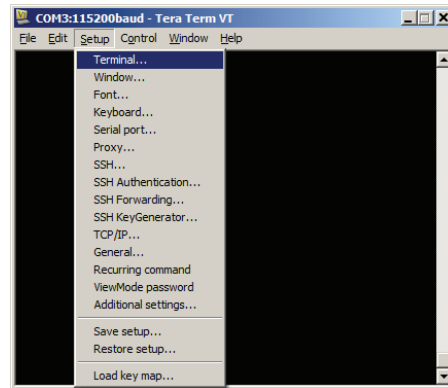


2.3 Set Serial Port

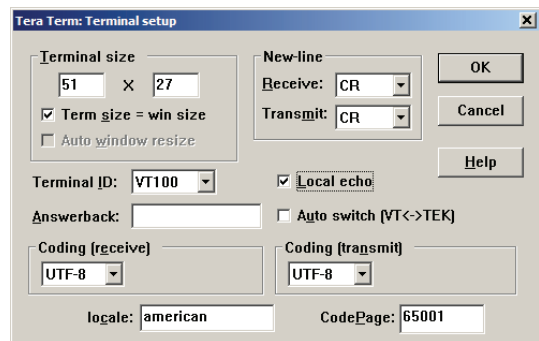
Baud: 115200, Data bits: 8, Parity: No, Stop bit: 1



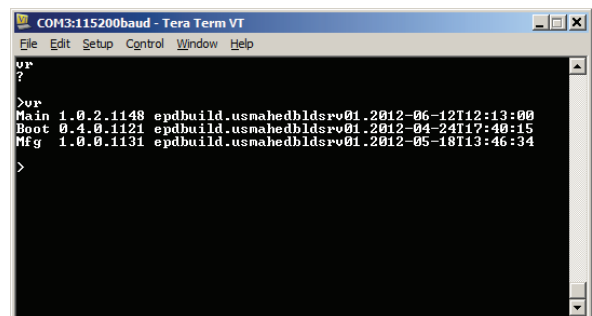
2.4 Select Terminal



2.5 Set Terminal to "Local echo" - Click "OK"



2.6 Set Terminal to "Local echo" - Click "OK"



FUNCTIONAL TEST PROCEDURES

Required Equipment

1. Tera Term terminal emulator - download at <http://sourceforge.jp/projects/ttssh2/>
2. TAP cable 264565 (used for TAP commands)
3. RS232-TTL Converter - B&B electronics Model 232LPTTL or similar - <http://bb-elec.com>
4. An A/D converter and audio generator
5. Computer setup to issue TAP commands - see page 40 for instructions.

1. Air Leak Test

- 1.1 Apply a 70 Hz, 50 mVrms signal to the left and right input of the A/D converter.
- 1.2 Connect the A/D converter Coax output to the unit's Coax input.
- 1.3 Issue TAP command "remote o" to turn the unit on, or press the remote ON button.
- 1.4 Issue TAP command "VO 100" to set the volume to maximum level.
- 1.5 Issue TAP command " BASS 2" to set the bass to mid level.
- 1.6 Listen for any air leaks from sealed enclosures such as the top cover and drivers.
- 1.7 Issue TAP command "BASS 0" to set bass to minimal level and then to the full level "BASS 4".

You should notice a corresponding decrease and increase in bass.

2. Buzz and Sweep Test

- 2.1 Apply a 35 Hz, 25mVrms signal to the left and right input of the A/D converter.
- 2.2 Connect the A/D converter Coax output to the unit's Coax input.
- 2.3 Issue the TAP command "remote 0" to turn the unit on, or press the remote ON button.

- 2.4 Issue the TAP command "VO 100" to set the volume to maximum level.

- 2.5 Sweep the generator from 35 Hz to 3 kHz

- 2.6 Listen for buzz, rub, or extraneous sounds. Localize and repair any buzz. Replace any transducer that rubs or produces extraneous sounds.

3. Left, Right, Center Output Test

- 3.1 Connect the A/D converter Coax output to the unit's Coax input.
- 3.2 Apply a 1 kHz, 10mVrms signal to the left input of the A/D converter.
- 3.3 Listen for clean, undistorted audio from the left speaker.
- 3.4 Apply the signal to the right input of the A/D converter.
- 3.5 Lister for clean, undistorted audio from the right speaker.
- 3.6 Apply the signal to the right and left input of the A/d converter.
- 3.7 Listen for clean, undistorted audio from the three center speakers.

4. Input Test

Note: Connect only the input being tested to avoid triggering the auto select circuit.

- 4.1 Issue the TAP command "remote 0" to turn the unit on, or press the remote on button.
- 4.2 Issue the TAP command "VO 100" to set the volume to maximum.
- 4.3 Apply a 200 Hz, 25 mVrms signal to the unit's left and right analog RCA input.
- 4.4 Listen for clean, undistorted audio from the unit.

FUNCTIONAL TEST PROCEDURES

Input Test (continued)

4.5 Apply a 200 Hz, 25 mVrms signal to the left and right input of the A/D converter.

4.6 Connect the A/D converter Coax output to the unit's Coax input.

4.7 Listen for clean, undistorted audio from the unit.

4.8 Apply a 200 Hz, 25 mVrms signal to the left and right input of the A/D converter.

4.9 Connect the A/D converter Optical output to the unit's Optical input.

4.10 Listen for clean, undistorted audio from the unit.

5. Auto Select

This is only needed if the input test is performed with all inputs connected. Otherwise, the unit's auto select circuit will select just the Optical input - the highest performance signal. The auto selection sequence is Optical, Coax, Analog.

5.1 Issue the TAP command "remote 0" to turn the unit on, or press the remote ON button.

5.2 Issue the TAP command "VO 100" to set the volume to maximum level.

5.3 Issue TAP command "audio auto, 0" to disable auto input selection.

5.4 Apply a 70 Hz, 50 mVrms signal to the left and right analog input.

5.5 Issue TAP command "audio input, 0" to select the Analog input.

5.6 Apply a 70 Hz, 50 mVrms signal to the left and right input of the A/D converter.

5.7 Connect the A/D converter Coax output to the unit's Coax input.

5.8 Issue TAP command "audio input, 1" to select the Coax input.

5.9 Connect the A/D converter Optical output to the unit's Optical input.

5.10 Issue TAP command "audio input, 2" to select the Optical input.

5.11 Perform Step 6 for pairing.

5.12 Issue TAP command "audio input, 3" to select the Bluetooth input.

5.13 Issue TAP command "audio auto, 1" to enable auto input selection before returning the unit to the customer.

6. Bluetooth Test

For this test, use a Cell phone with A2DP Bluetooth, such as an iPhone® (Advanced Audio Distribution Profile) Pair Bose® Solo 15/10 Series II TV sound system device.

6.1 Plug in the power to the unit and turn on the Bose® Solo 15/10 Series II TV sound system

6.2 Press the Bluetooth button on remote until the LED blinks white to make the unit discoverable.

6.3 From the Bluetooth device list, select the device named "Bose Solo system". Once paired, the LED on the unit should turn a solid white.

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

6.4 Play a familiar audio track from the Bluetooth device.

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

FUNCTIONAL TEST PROCEDURES

7. Factory Default

It is important to reset the unit to its factory default setting after testing since the unit stores the last volume setting. Some tests required the volume to be set at full (100). Because the last volume setting was 100, when first turned on by the customer, the unit would be at full volume.

Note: Factory default volume is 30.

7.1 Use the remote to turn on the unit or issue TAP command "remote 0"

7.2 Issue TAP command "fd"

7.3 Turn the unit off with the remote or TAP command "remote 0"

7.4 Remove power from the unit.

Note: To check the volume setting, turn the unit on with the remote or by issuing TAP command "remote 0". Issue the TAP command "VO" to view the volume setting. Response = 0/30/100. The middle number is the volume level the unit will turn onto.

8. Hi-Pot Test, Mandatory Test

Important note: If the unit has been disassembled, a Hi-Pot test must be performed before returning the unit to the customer to ensure there is no potential for a shock hazard.

8.1 Test points are from the AC power input (both line and neutral) to all connectors on the rear of the product.

8.2 Hi-Pot tester settings for all voltage variants.

Type of product: 200-240 VAC 2-wire Class II
Test Voltage: 3000 VAC
Trip Current Limits: 1.5mA min, 2.16 mA max
Ramp: 1 sec
Dwell: 3 sec

8.3 Connect the AC line cord into the rear of the Bose® Solo 15/10 Series II TV sound system. Connect the other end of the AC line cord to the Hi-Pot tester.

8.4 With the tester set to the above settings, perform the test. Failure of this test indicates a faulty transformer, incorrectly dressed primary wires, or incorrectly adjusted trip point on tester. Repair any fault found.

TAP COMMAND

1. DC - Describes commands 2. VR - Software version 3. VO - Volume VO: Responds with volume setting 0/40/100 4. Set volume: VO 80 Response: 0/80/100 5. reboot - Reboots unit 6. audio - audio settings audio - response with audio settings 7. audio input, <input> - selects an input <input> parameters: 0 = analog 1 = coaxial 2 = optical 3 = auto select 8. audio auto, 0 /1- Disable/enable the input auto selection 9. audio bypass, 0 1 - Enable/disable BDSP bypass 10. fd - Factory Default 11. sr - read serial number 12. sw - write serial number (sw <password>, <bank>, <serial number><password> cafefb0se<bank> 0 main board, 1 IR board, 2 system) example: sw cafefb0se, 0, 064395Z41160015AE if successful, responds with serial number 13. mu - mute control mu 0/1 unmute/mute 14. usb - USB control 15. usb detect - print just the detect bit	16. usb - print lockout and detect bit 17. usb - print lockout and detect bit 18. led - control led display. led blue, <0 1> -Turn on /off BT blue led. led green, <0 1>-Set dim of TV green led. led red, <0 1>, -Turn on/off TV red led. led wt, <0 1>, -Turn on/off TV white led. led wb, <0 1>, -Turn on/off BT white led
--	--

SERVICE MANUAL REVISION HISTORY

Date	Revision Level	Description of Change	Change Driven By	Page(s) Affected
9/1/2015	00	Document released at revision 00	Initial Release	ALL
2/3/2016	01	Document released at revision 01 Updated owner guide and assembly drawing for screws location. (JPN variant)	BOM Update	5,7 and 8



Bose Corporation
100 The Mountain Road
Framingham Massachusetts USA 01701

Reference Number 740928-SM REV 01, 09/2015
<http://serviceops.bose.com>