Contents

Safety Information **2**
Electrostatic Discharge Sensitive (ESDS) Device Handling **2**
Product Description **3**
Specifications **4**
Part List Notes **5**
Commonly Requested Parts **6**
Lifestyle® 38 Home Entertainment System Packaging **7**
Figure 1. Lifestyle® 38 Home Entertainment System Packaging **7**
Lifestyle® 48 Home Entertainment System Packaging **8**
Figure 2. Lifestyle® 48 Home Entertainment System Packaging **8**
Lifestyle® 38 Satellite Packaging **9**
Figure 3. Lifestyle® 38 Satellite Packaging **9**
Lifestyle® 48 Satellite Packaging **10**
Figure 4. Lifestyle® 48 Satellite Packaging **10**
AV38/48 Media Center Packaging **11**
Figure 5. AV38/48 Media Center Packaging **11**
Lifestyle® 38/48 Home Entertainment System **12**
Essentials Kit Packaging **12**
Figure 6. LS38/48 Essentials Kit Packaging **12**
Lifestyle® 38/48 Home Entertainment System **13**
Literature Kit Packaging **13**
ADAPTIQ® Kit Packaging **13**
AV38/48 Media Center Main Part List **14**
Figure 7. AV38 Media Center Exploded View **15**
Main PCB Electrical Part List **16-30**
Tuner PCB Electrical Part List **31-37**
Disassembly Procedure **38-44**
Setting-up a Computer to Issue TAP Commands - AV38/48 ..... **45**
Issuing TAP Commands to the AV38/48 media center **46**
Figure 8. Tap Test Cable Part Number 264565 ..... **46**
General TAP Commands **47**
General Test Procedure Notes **48**
Functional/Performance Verification Tests **49-51**
Adjustment/Performance Verification Procedures **52-54**
Bass Module **57**
Setting up a Computer to Issue TAP Commands **57**
Placing the Bass Module into TAP Mode **58**
Figure 9. DIP switch Up/Down orientation **58**
Figure 10. Bass Module Test Cable Part Number 264564 ..... **58**
Setting the Bass Module Equalizer **59**

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 SERVICE CENTER OR OWNER OF THE BOSE PRODUCT, AND SHALL NOT BE REPRODUCED OR USED FOR ANY OTHER PURPOSE.

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. Make leakage current or resistance measurements to determine that exposed parts are acceptably insulated from the supply circuit before returning the unit to the customer.
Use the following checks to perform these measurements:

A. Leakage Current Hot Check-With the unit completely reassembled, plug the AC line cord directly into a 120V AC outlet. (Do not use an isolation transformer during this test.) Use a leakage current tester or a metering system that complies with American National Standards Institute (ANSI) C101.1 “Leakage Current for Appliances” and Underwriters Laboratories (UL) 6500 / IEC 60056 paragraph 9.1.1. With the unit AC switch first in the ON position and then in OFF position, measure from a known earth ground (metal waterpipe, conduit, etc.) to all exposed metal parts of the unit (antennas, handle bracket, metal cabinet, screwheads, metallic overlays, control shafts, etc.), especially any exposed metal parts that offer an electrical return path to the chassis. Any current measured must not exceed 0.5 milliamp. Reverse the unit power cord plug in the outlet and repeat test. ANY MEASUREMENTS NOT WITHIN THE LIMITS SPECIFIED HEREIN INDICATE A POTENTIAL SHOCK HAZARD THAT MUST BE ELIMINATED BEFORE RETURNING THE UNIT TO THE CUSTOMER.

B. Insulation Resistance Test Cold Check-(1) Unplug the power supply and connect a jumper wire between the two prongs of the plug. (2) Turn on the power switch of the unit. (3) Measure the resistance with an ohmmeter between the jumpered AC plug and each exposed metallic cabinet part on the unit. When testing 3 wire products, the resistance measured to the product enclosure should be between 2 and infinite MOhms. Also, the resistance measured to exposed input/output connectors should be between 4 and infinite MOhms. When testing 2 wire products, the resistance measured to exposed input/output connectors should be between 4 and infinite MOhms. If it is not within the limits specified, there is the possibility of a shock hazard, and the unit must be repaired and rechecked before it is returned to the customer.

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.

Product Description

The AV38 and AV48 Media Center uses a hardware platform derived from the AV28 Media Center. It uses the same plastic enclosure and external power supply unit ("floor wart"). Likewise, it is meant to interface to the same home theater speaker system.

The AV38 and AV48 Media Center have an internal hard drive used for storing CDs.
AV38 - Stores 200 hours of music or over 200 CDs.
AV48 - Stores 340 hours of music or over 350 CDs.

The AV38 and AV48 Media Center is manufactured in two hardware configurations, Euro and US:

Variant	US	EURO
SCART		X
RDS		X
TV On Detector	X	
Remote	27MHz RF	40MHz RF
FM Tuner	US	EURO

Like the AV28 Media Center, the AV38 and AV48 Media Center is a self-contained DVD/CD/MP3 disc player with an AM/FM tuner for use with Bose® powered speaker systems. In addition to the two internal sources (DVD/CD and AM/FM tuner), it allows playing up to four external audio sources: TV, VCR, CAB/SAT, and AUX. A 27MHz (40MHZ for Euro), one-way RF remote control operates the unit without line-of-sight restriction; provisions for infrared remote control of the Media Center also exist. An integrated IR blaster allows limited control of other manufacturer's equipment (TV's, VCR's and Cable/Satellite Set-Top boxes). The Media Center has two independent audio output zones (Main and Bose® Link), accessible through circular DIN connectors in the back of the product.

The AV38 and AV48 Media Center contains five PCBs:

PCB	**Assembly P/N**
Main PCB	282491-010
IR PCB	Contained on 282491-010
Headphone PCB	Contained on 282491-010
Tuner PCB	273300-01x
Keypad PCB	277595-001

The AV38 and AV48 Media Center use a new smart speaker protocol and uses a 9 pin DIN speaker connector. The AV28 Media Center used an 8 pin DIN speaker connector. Support is limited for legacy product with an 8 pin DIN.

Software Update Information

The software in the AV38 and AV48 Media Center can be updated using a software update CD available from Bose service or downloaded at http://serviceops.bose.com. Refer to page 50, Console Key Special Functions, to determine the software version of the unit. Refer to the Bose service extranet site for information regarding the latest software revision; click on Lifestyle® music centers and then AV38/AV48 media center. http://serviceops.bose.com

Specifications

Power Pack:	USA/Canada:	Input - 120V, 0.55A, 50/60 Hz Output - 33VDC, 1.1A
	International:	Input - 220-240V, 0.30A, 50/60 Hz Output – 33VDC, 1.1A
	Dual voltage:	Input - 115/230V, 0.55A, 50/60 Hz Output – 33VDC, 1.1A
Inputs:		AUX: 2Vrms, maximum CBL-SAT: 2Vrms, maximum VCR: 2Vrms, maximum TV: 2Vrms, maximum Digital: SPDIF (1 each of TV, VCR, TAPE, and AUX) Composite Video: NTSC or PAL format 1Vp-p with sync 75 ohm S-Video: Luminance 1Vp-p Chrominance 0.3Vp-p Component video: NTSC or PAL 1V p-p with sync on Y Optical input: SPDIF digital, mapped to input FM antenna: 75 Ohm AM antenna: 12uH TV Sensor: Scan frequency sensing
Outputs:		Speaker Main and Bose® link: Variable audio, user selectable Audio out: Left and Right: Fixed audio, 2 Vrms maximum Digital audio out: SPDIF Optical output: SPDIF, -15 to -21 dbm Composite video: NTSC or PAL 1Vp-p with sync 75 ohm S-Video: Luminance 1 Vp-p chrominance 0.3Vp-p Component video: NTSC or PAL 1 Vp-p with sync on Y
Dimensions:		15.8” W x 11.0” D x 3.5” H (40.1 cm x 27.9 cm x 8.9 cm)
Weight:		8.2 lb (3.7 kg)
Finish:		Aluminum
Remote control range:		65 ft (20m)
Disc Playback Support:		Video DVDs DVD-Rs or DVD-R/Ws Video CDs (VCDs) Audio CDs CD-Rs or CD-RWs MP3 CDs that meet the following criteria: All tracks are burned in a single, closed session and in ISO9660 disc format. Each file name has an “.mp3” extension and no other periods. The file tag is no higher than ID3 (ID3v2).

Part List Notes

1. This part is not normally available from customer service. Approval from the Field Service Manager is required before ordering.

2. The individual parts located on the PCB are listed in the part list.

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.

4. This part is set to the Lifestyle® 28 system equalization. To use this part on a Lifestyle® 18, 35, 38, or 48 system, refer to the instructions located on page 53 for setting the equalizer using TAP commands. In place of using TAP commands to set the EQ, the customer may use the Bose® AdaptIQ® audio calibration system to customize the EQ to their room. The AdaptIQ audio calibration system is packaged with the Lifestyle® 18, 28, 35, 38 and 48 systems.

5. This item is listed for reference only and is not available for order. The individual parts are listed elsewhere in this manual.

Commonly Requested Parts

Remote			
REMOTE, RF, AV38, MAIN ROOM, USA REMOTE, RF, AV38, MAIN ROOM, EURO	270606-011 270606-012	1	US EURO
BATTERY, AAA SIZE	179223-01	4	
Dongles			
IR BLASTER IR BLASTER, DAISY-CHAIN	260335 277896-001 or -002	1	ALL SERVICE PART
RC ANTENNA, REMOTE RANGE EXT, 10FT	277892-002		SERVICE PART
DONGLE, TV POWER	258359	1	ALL
Cables			
CABLE, RJ-45/DIN-8, FOIL SHIELD, 30 FOOT 70 FOOT VERSION AVAILABLE FROM SERVICE	276865-001 276865-002	1	
CABLE, AUDIO, DUAL RCA	185931-01	1	
CABLE, VIDEO, 6', YL	183200	1	
CABLE, S-VIDEO, 6 FT	258369	1	
CABLE, COMP VIDEO ADAPT	274343-001	1	
CABLES, SPKR, 18 AWG, L/C/R, BLACK CABLES, SPKR, 18 AWG, L/C/R, WHITE CABLES, SPKR, 18 AWG, L/C/R, GRAY	180643-4 176201-4 271702-4	1	LS 38
CABLE, SPEAKER, REAR, BLACK CABLE, SPEAKER, REAR, WHITE CABLE, SPEAKER, REAR, GRAY	180644 176202 267148-003	1	LS 38
CABLE SET, 3PK, L/C/R, BLACK CABLE SET, 3PK, L/C/R, WHITE CABLE SET, 3PK, L/C/R, SLIVER	193145-04 193145-14 193145-24		Ls 48
CABLE SET, 2PK, LS/RS, BLACK CABLE SET, 2PK, LS/RS, WHITE CABLE SET, 2PK, LS/RS, SILVER	193146-03 193146-13 193146-23		LS 48
CABLE, SCART ADAPTER	274344-001	1	EU, AUS, UK, DUAL
Power Packs			
POWER PACK, 35W, 120V, DCS-91	256764-001	1	120V
POWER PACK, 35W, 230V, DCS-92	256764-007	1	230V
POWER PACK, 35W, DUAL-V, DCS-94	256764-004	1	120V/240 V
Line Cords			
LINE CORD, 120V, AV18/28/38/48	258491-001	1	US, CAN, DUAL-V
LINE CORD, 220V, AV18/28/38/48	148203	1	EU, DUAL-V
LINE CORD, 230V, AV18/28/38/48	134725	1	UK
LINE CORD, 240V, AV18/28/38/48	134726	1	AUS
LINE CORD, 120V, PS18/28/38/48	263453-006	1	US, CAN, DUAL-V
LINE CORD, 220V, PS18/28/38/48	264355-006	1	EU, DUAL-V
LINE CORD, 230V, PS18/28/38/48	264356-006	1	UK
LINE CORD, 240V, PS18/28/38/48	264357-006	1	AUS
Antenna			
ANTENNA, FM DIPOLE, 75 OHM, F-CONNECTOR ANTENNA, FM DIPOLE, PAL CONNECTOR	148589 143185	1	US EURO
ANTENNA, ASSY, AM, CD20	199824-002	1	ALL
Feet			
FOOT, BASS MODULE	142839	4	
FOOT, CUBES, 4 PER	178321-04	1 PK	LS 38
FOOT, JEWEL® SPEAKER 2.03X.06, 1 PER	183621		LS 48
Cubes			
DOUBLE SATELLITE ASSEMBLY, LS28, BLACK DOUBLE SATELLITE ASSEMBLY, LS28, WHITE DOUBLE SATELLITE ASSEMBLY, LS28, SILVER	192420-119 192420-129 192420-139	5	LS 38
JEWEL CUBE ASSEMBLY, LS48, BLACK JEWEL CUBE ASSEMBLY, LS48, WHITE JEWEL CUBE ASSEMBLY, LS48, SILVER	194420-019 194420-029 194420-039	5	LS 48
ADAPTiQ® Audio Calibration			
KIT, ADAPTIQ CONSISTS OF: HEADPHONES, INSTALLER DVD, SETUP DISC 1 CD, SETUP DISC 2	292401-001 or 309194-001 NA NA NA		1 ALL
Guides			
GUIDE, OPER, LS38/48 3-LANG (English, Spanish, French)	274482	1	ALL
GUIDE, INSTALL, LS38/48, 3-LANG	274398	1	ALL
GUIDE, OPER, LS38/48 5-LANG (Danish, German, Italian, Dutch, Swedish)	275873	1	Euro

Lifestyle® 38 Home Entertainment System Packaging

Item Number	Description	Part Number	Qty	Note
1	AV38 CONSOLE, US TUNER, RC1 AV38 CONSOLE, EURO TUNER, RC2	307535-111F 307535-2123		
2	SAT ASSY, 5 PACK, LS28, BLACK SAT ASSY, 5 PACK, LS28, WHITE	277098-119 277098-129	1	5
3	SAT ASSY, 5 PACK, LS28, SILVER BASS MODULE, 120V, LS28, BLACK BASS MODULE, DUAL V, LS28, BLACK	277098-139 278799-119 278799-619	1	4
4	BASS MODULE, DUAL V, LS28, WHITE ESSENTIALS KIT, US/CA ESSENTIALS KIT, EURO ESSENTIALS KIT, UK ESSENTIALS KIT, AUS	278799-629 274493-001 274493-002 274493-004 274493-005	1	5
	ESSENTIALS KIT, DUAL	274493-006		
5	FOAM, SHT, ADHESIVE BACK 12X6X.06	263426	2	
6	PACKING, INSERT, GRILL	258465	1	
7	CARTON, LS38	277516-002	1	
8	PACKING, END CAP, EPS, FRONT	258466-000	1	
9	PACKING, END CAP, EPS, REAR	269178	1	
10	BAG, POLY	196638	1	
11	CARTON, RSC 30.25X12.06X20.00	270558-001	1	
12	GUIDE, QUICK START	274402	1	
13	COMMITMENT LETTER	251001	1	
-	LETTER, EULA	279581-001	1	

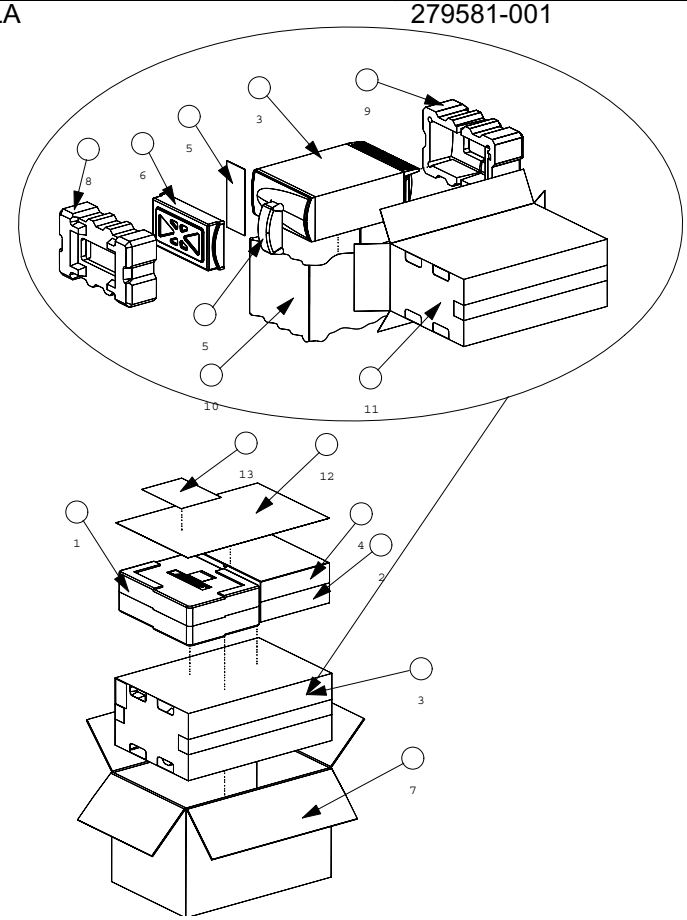


Figure 1. Lifestyle® 38 Home Entertainment System Packaging

Lifestyle® 48 Home Entertainment System Packaging

Item Number	Description	Part Number	Qty	Note
1	CONSOLE, AV48, US TUNER, RC1, MX CONSOLE, AV48, EURO TUNER, RC2	307535-121F 307535-2223		
2	SAT ASSY, 5PK, LS-48, BLACK, MEX SAT ASSY, 5PK, LS-48, WHITE, MEX SAT ASSY, 5PK, LS-48, SILVER, MEX	277099-119 277099-129 277099-139	1	
3	BASSMODULE, 120V, LS28, BLACK BASSMODULE, DUALV, LS28, BLACK BASSMODULE, DUALV, LS28, WHITE	278799-119 278799-619 278799-629	1	
4	ESSENTIALS KIT, US/CA ESSENTIALS KIT, EURO ESSENTIALS KIT, UK ESSENTIALS KIT, AUS ESSENTIALS KIT, DUAL	290693-001 290693-002 290693-004 290693-005 290693-006	1	
5	FOAM, SHT, ADHESIVE BACK 12X6X.06	263426	2	
6	PACKING, INSERT, GRILL	258465	1	
7	CARTON, RSC	277516-001	1	
8	PACKING, END CAP, EPS, FRONT	258466-000	1	
9	PACKING, END CAP, EPS, REAR	269178	1	
10	BAG, POLY	196638	1	
11	CARTON, RSC30.25X12.06X20.00	277516-001	1	
12	GUIDE, QUICK START, LS18/28	274402	1	
13	COMMITMENT LETTER	251001	1	
-	LETTER, EULA, LS38/48	279581-001	1	

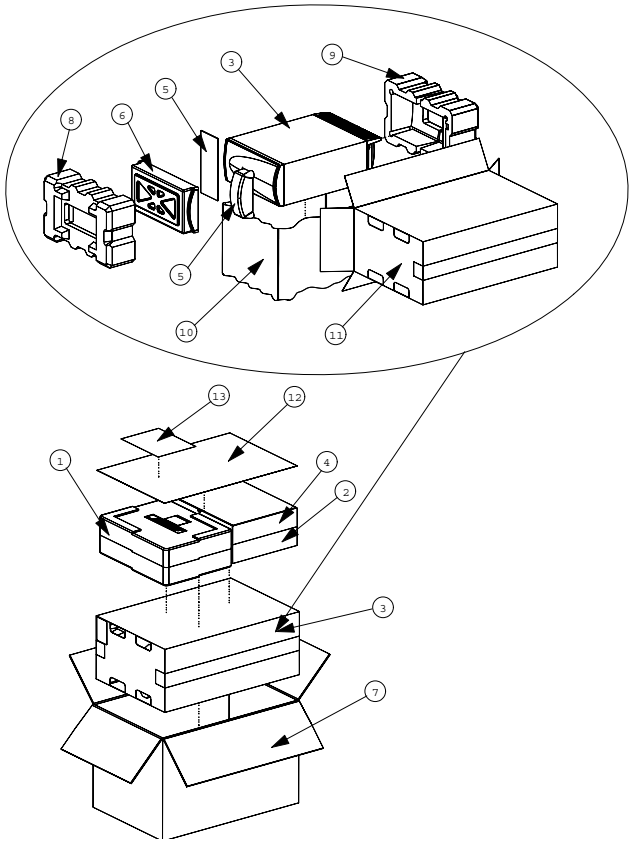


Figure 2. Lifestyle® 48 Home Entertainment System Packaging

Lifestyle® 38 Satellite Packaging

Item Number	Description	Part Number	Qty	Note
1	DOUBLE SATELLITE, BLACK DOUBLE SATELLITE, WHITE DOUBLE SATELLITE, GLOSS SILVER DOUBLE SATELLITE, MATTE SILVER	192420-119 192420-129 192420-139 or -169 (EURO ROHS) 194420-269	5	
2	CABLES, SPKR, 18 AWG, L/C/R, BLACK CABLES, SPKR, 18 AWG, L/C/R, WHITE CABLES, SPKR, 18 AWG, L/C/R, GRAY	180643-4 176201-4 271702-4	1	
3	CABLE, SPEAKER, REAR, BLACK CABLE, SPEAKER, REAR, WHITE CABLE, SPEAKER, REAR, GRAY	180644 176202 267148-003	1	
4	CABLE, RJ-45/DIN-8, FOIL SHIELD, 30 FOOT 70 FOOT VERSION AVAILABLE FROM SERVICE	276865-001 276865-002	1	
5	CABLE, AUDIO, DUAL RCA	185931-01	1	
6	CABLE, VIDEO, 6', YL	183200	1	
7	CABLE, S-VIDEO, 6 FT	258369	1	
8	CABLE, COMP VIDEO ADAPT	274343-001	1	
9	CARTON, D/C, SAT KIT	258472-001	1	
10	CARTON	250555-001	5	
11	BAG, POLY, 10X12X2MIL	144677	5	
12	PACKING, INSERT, SAT KIT	258473	1	
-	FOOT, BASS MODULE	142839	4	
-	FOOT, CUBES, 4 PER	178321-04	1 PK	

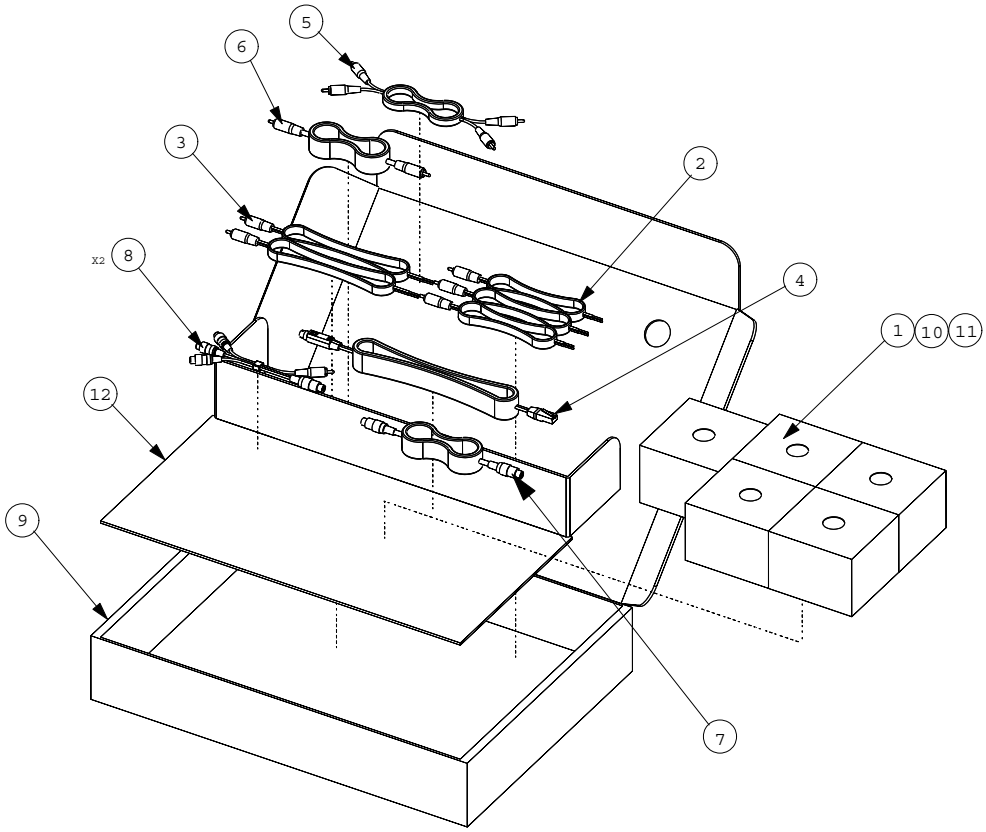


Figure 3. Lifestyle® 38 Satellite Packaging

Lifestyle® 48 Satellite Packaging

Item Number	Description	Part Number	Qty	Note
1	JEWEL CUBE ASSEMBLY, BLACK JEWEL CUBE ASSEMBLY, WHITE JEWEL CUBE ASSEMBLY, GLOSS SILVER JEWEL CUBE ASSEMBLY, MATTE SILVER	289523-019 289523-029 289523-039 289523-069	5	
2	CABLE SET, 3PK, L/C/R, BLACK CABLE SET, 3PK, L/C/R, WHITE CABLE SET, 3PK, L/C/R, SLIVER	193145-04 193145-14 193145-24	1	
3	CABLE SET, 2PK, LS/RS, BLACK CABLE SET, 2PK, LS/RS, WHITE CABLE SET, 2PK, LS/RS, SILVER	193146-03 193146-13 193146-23	1	
4	CABLE, RJ-45/DIN-8, FOIL SHIELD, 30 FOOT 70 FOOT VERSION AVAILABLE FROM SERVICE	276865-001 276865-002	1	
5	CABLE, AUDIO, DUAL RCA	185931-01	1	
6	CABLE, VIDEO, 6', YL	183200	1	
7	CABLE, S-VIDEO, 6FT	258369	1	
8	CARTON, D/C, SAT KIT	258472-001	1	
9	CABLE, COMP VIDEO ADAPT, LS18/38	274343-001	1	
10	SATELLITE TRAY	190211-001	1	
11	PACKING, INSERT	258473	1	
12	BAG, POLY, 3X3.5X.004	185214	5	
-	BUMPER, RECESSED, FOOT, .88"	142839	-	
-	FOOT, 2.03X.06	183621	-	

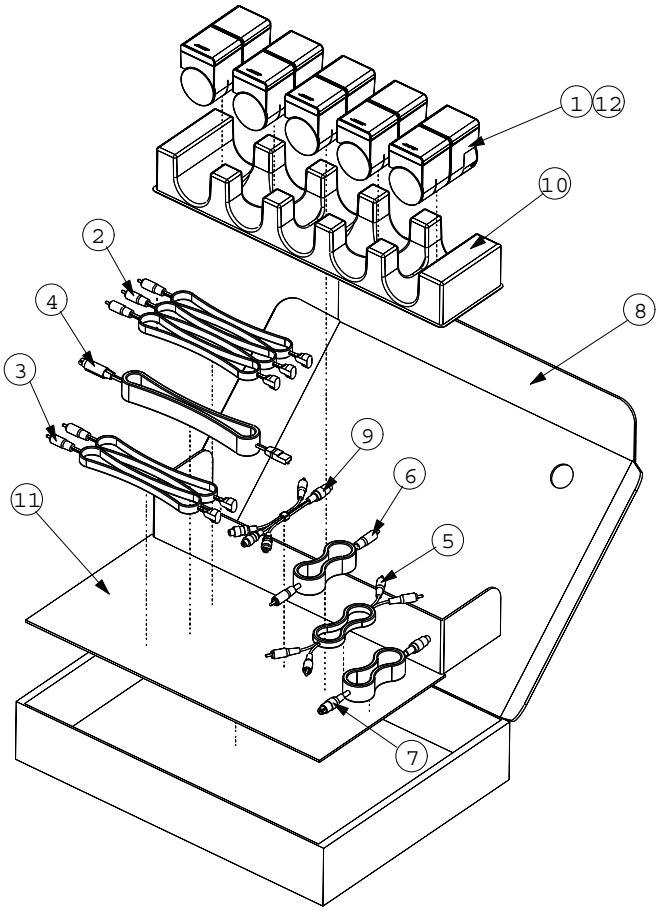


Figure 4. Lifestyle® 48 Satellite Packaging

AV38/48 Media Center Packaging

Item Number	Description	Part Number	Qty	Note
1	PACKING, TOP, EPS	258467	1	
2	PACKING, PAD, EPS	269144-001	1	
3	REMOTE, RF, AV38, MAIN ROOM, USA REMOTE, RF, AV38, MAIN ROOM, EURO REMOTE, IR, AV38, MAIN ROOM, JAPAN	289138-011 289138-012 270618-013	1	US EURO JAPAN
4	BATTERY, AAA SIZE	179223-01	4	
5	ANTENNA, FM DIPOLE, 75 OHM, F CONN ANTENNA, FM DIPOLE, 75 OHM, PAL CONN	148589 143185	1	US EURO
6	BAG, POLY, 3X3 MIL	194392	1	
7	PACKING, DECKPAD, TRIPLE WALL	256676	1	
NOT SHOWN	MEDIA CENTER CARTON KIT FOR SHIPPING	263133-K	-	

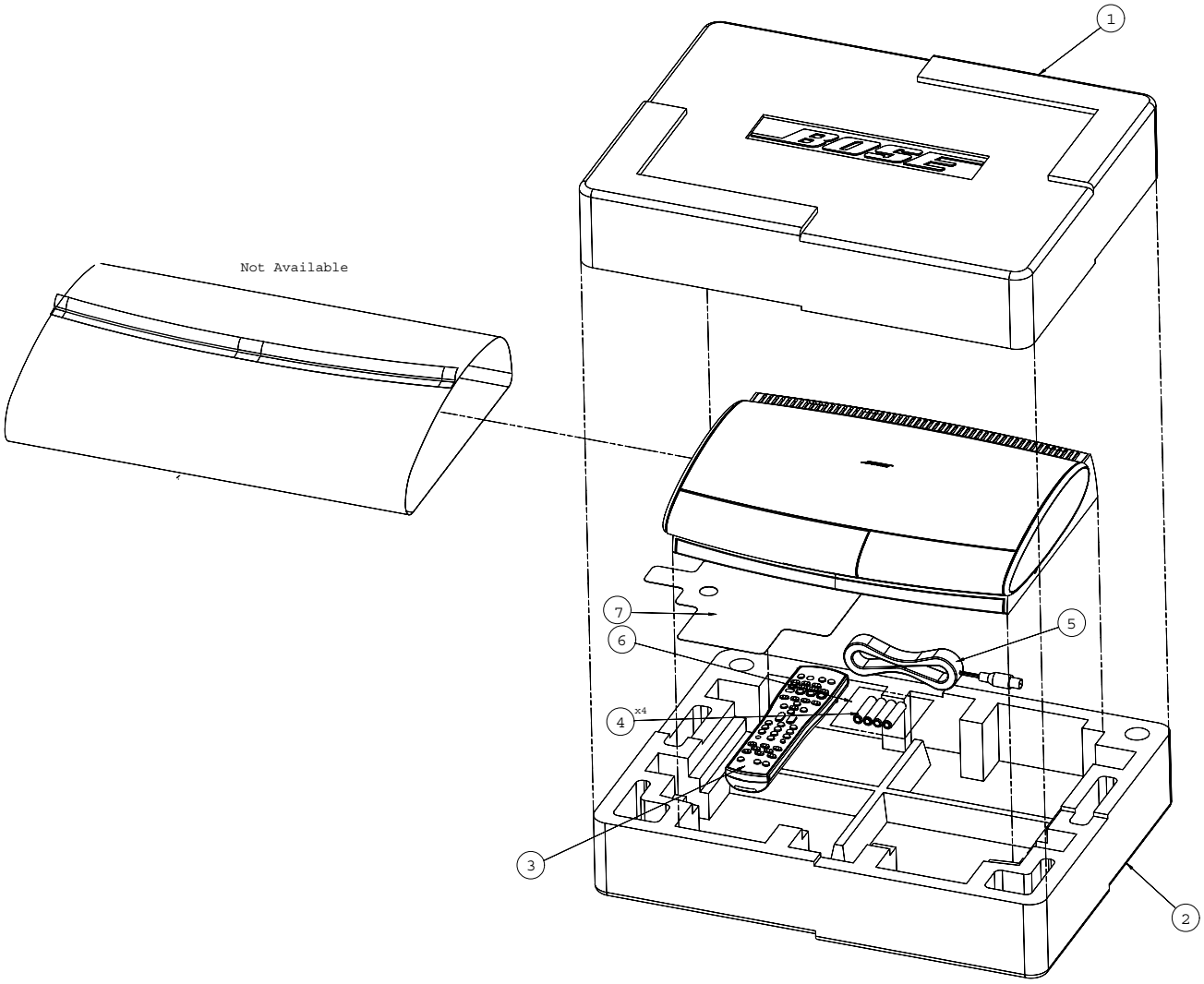


Figure 5. AV38/48 Media Center Packaging

Lifestyle® 38/48 Home Entertainment System
Essentials Kit Packaging

Item Number	Description	Part Number	Variant Packaging	Note
1	POWER PACK, 35W, 120V, DCS-91	256764-001 or 294295-001	120V	3
	POWER PACK, 35W, 230V, DCS-92	256764-007	230V	
	POWER PACK, 35W, DUAL-V, DCS-94	256764-004 or 294295-004	120V/240 V	
2	LINE CORD, 120V, AV18/28/38/48	258491-001	US, CAN, DUAL-V	3
	LINE CORD, 220V, AV18/28/38/48	148203	EU, DUAL-V	
	LINE CORD, 230V, AV18/28/38/48	134725	UK	
3	LINE CORD, 240V, AV18/28/38/48	134726	AUS	3
	LINE CORD, 120V, PS18/28/38/48	263453-006	US, CAN, DUAL-V	
	LINE CORD, 220V, PS18/28/38/48	264355-006	EU, DUAL-V	
4	ANTENNA, AM	199824-002	ALL	
5	DONGLE, TV POWER	258359	ALL	
6	CARTON, DIC, ACCY KIT	258470-001	ALL	
7	TRAY, PACKING, INSERT	258471	ALL	
8	IR BLASTER IR BLASTER, DAISY-CHAIN	260335 277896	ALL SERVICE PART	
9	CABLE, SCART ADAPTER	274344-001	EU, AUS, UK, DUAL	
10	LIT KIT	274489-1	US, CAN	
		274489-2	EU, AUS, UK, DUAL	
		274489-6	EU	
11	KIT, ADAPTiQ® AUDIO CALIBRATION	318986-0001	ALL	

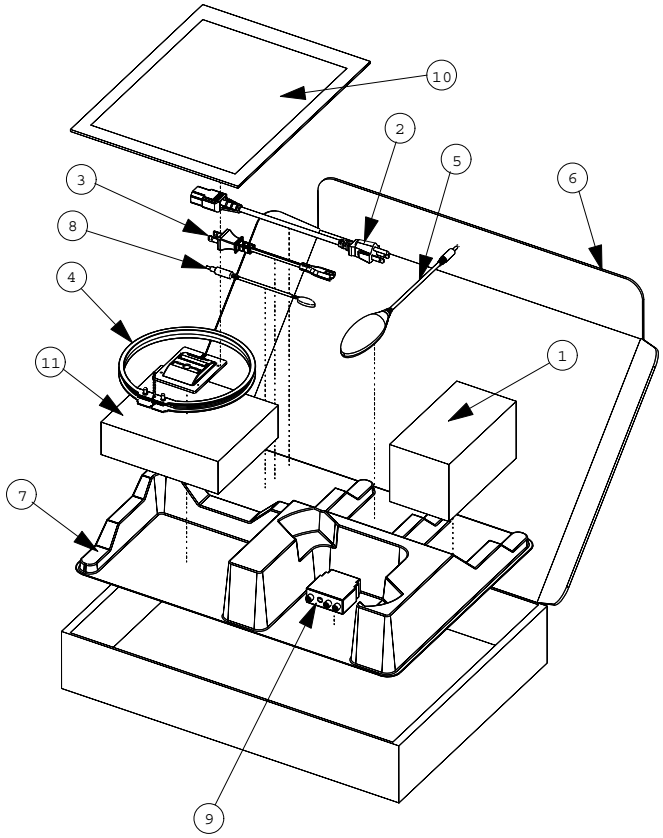


Figure 6. LS38/48 Essentials Kit Packaging

Lifestyle® 38/48 Home Entertainment System
Literature Kit Packaging

Description	Part Number	Variant Packaging
SHEET SLIP COMPONENT AUDIO	255805	ALL
ADDRESS PAGE, BOSE	289347-001	ALL
GUIDE, OPER, LS38/48 3-LANG (English, Spanish, French)	289328-001	ALL
GUIDE, INSTALL, LS38/48, 3-LANG	289316-001	ALL
GUIDE, OPER, LS38/48 5-LANG (Danish, German, Italian, Dutch, Swedish)	289329-001	EU, AUS, UK, DUAL
GUIDE, INSTALL, LS38/48, 5-LANG	28840	EU, AUS, UK, DUAL
CARD, REGISTRATION	278529-001	US
BAG, POLY,14.38x9.87x2 mil	103351	EU, AUS, UK, DUAL
CARD, REGISTRATION, NOTIFICATION	279313-001	EU

ADAPTIQ® Kit Packaging

Item Number	Description	Part Number	Note
1	HEADPHONES, INSTALLER	258481	
2	DVD, SETUP DISC 1 DVD, SETUP DISC 1, JAPAN	316455-0001 284616-001	
3	CD, SETUP DISC 2 CD, SETUP DISC 2, JAPAN	309218-001 284619-001	
4	CARTON, ADAPTIQ	278335-001	

AV38/48 Media Center Main Part List

Refer to figure 5.

Item Number	Description	Part Number	Qty	Note
1	DVD-ROM, DV-505SFV7 V1.014R7622, ALL VARIANTS Refer to service bulletin 271000-B7 when replacing a Toshiba mech	301728-004	1	3
	HARD DRIVE ASSEMBLY, 40GB, PRO	282960-016 or 282960-018S		
3	MAIN PCB, ROHS, 03.03.02, 03.01.04, US, EURO . MAIN PCB, 82.04.00, JAPAN	309209-910 309206-513		1, 2
4	TUNER PCB 01.02.03 (273300-401 SLAB) USA TUNER PCB 01.02.03 (289596-402 SLAB) EUR TUNER PCB 01.02.03 (283638-403 SLAB) JAPAN	285968-301 303275-402 285968-403	1	1, 2
5	KEYPAD BEZEL ASSEMBLY	289614-001	1	
6	FOOT, RUBBER	188462-001	6	
7	FACEPLATE, TRAY, DVD, V2	277049-201	1	
8	PAD, HEAT TRANSFER, 14.6mm, 31X31mm	260372-001	1	
9	DISPLAY, VFD	275866-001	1	
10	COVER ASSEMBLY, TOP	275871-001	1	
11	DOOR ASSEMBLY	264353-002	1	
12	END CAP ASSEMBLY, LEFT, HEAT SINK	275870-001	1	
13	END CAP ASSEMBLY, RIGHT	266438-001	1	
14	BASE, EMI	309397-202		
15	LENS, VFD DISPLAY	256157-001	1	
16	LENS, IR CONSOLE	256158-001	1	
17	BRACKET, DVD	274807-001	1	
18	BRACKET, DVD, L	274808-001	1	
19	CABLE, DVD POWER	304996-265	1	
20	CABLE, DVD, SHIELDED, 40 POS, 300 mm	256145-40300	1	
21	CABLE, FFC, 34 POS, 130 mm	270608-34130	1	
22	CABLE, FFC, SHIELD, 5POS, 110 mm	270601-05110	1	
23	CABLE, 11 POS, SPLIT, IR/KEYPAD	278048-001	1	
24	CABLE, HEADPHONE, 4 POS, 70 mm	256775-04070	1	
25	CABLE, HDD	274806-44280	1	
26	GASKET, EMI, FOIL, 85 mm	272391-085	1	
27	GASKET, EMI, V-CUT	256160-002	1	
28	GASKET, EMI, STRAIGHT	260383-003	1	
29	GASKET, EMI, V-CUT	256160-004	1	
30	GASKET, EMI	256160-005	1	
31	GASKET, EMI, HEAT SINK	276873-001	1	
32	GASKET, EMI	262876-100	1	
33	BRACKET, TUNER	274810-001	1	
34	SCREW, M3-0.5, SYM, PAN, XREC	256752-005	4	
35	CLIP, ARM	263461	1	
36	PLATE, STRIKER	256756-001	1	
37	SPRING, DOOR	256757-001	1	
38	GEAR, DAMPER, UPRIGHT, TYPE-F	256797-04	1	
39	SCREW, TAP, 8-11X.625, PAN, XRC/SQ	193637-10	6	
40	SCREW, TAPP, 6-13x.5, PANN, X	172783-08	1	

CONNECTOR PANEL LABEL 267606-002

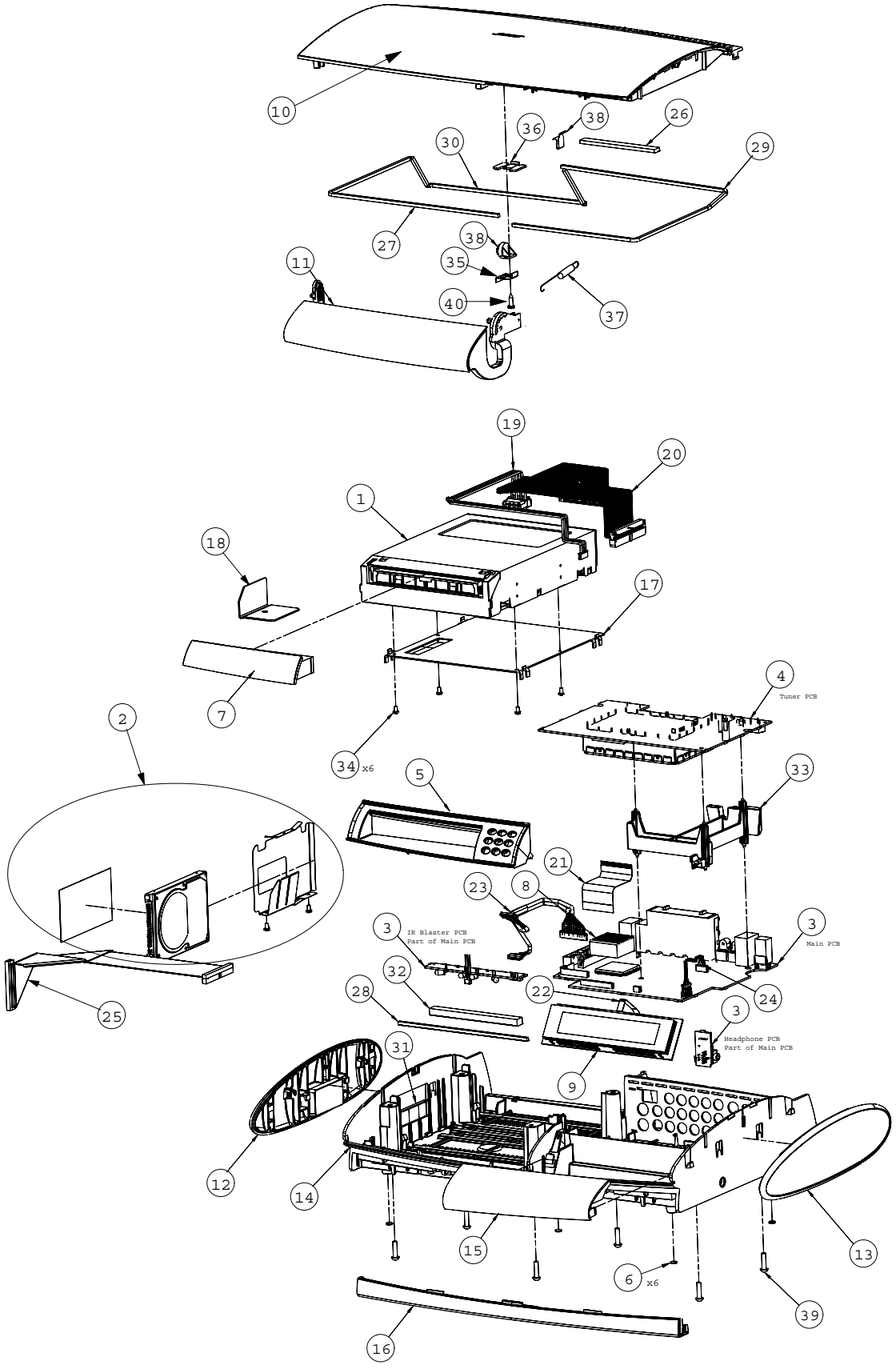


Figure 7. AV38 Media Center Exploded View

Main PCB Electrical Part List

Resistors

Reference Designator	Description	Part Number	Note
R1	9.09K OHMS, 0603, .1W, 1%	191465-9091	
R2	1K, 0603, .1W, 1%	191465-1001	
R3	33.2K, 0603, .1W, 1%	191465-3322	
R4	33.2K, 0603, .1W, 1%	191465-3322	
R7	1K, 0603, .1W, 1%	191465-1001	
R8	1K, 0603, .1W, 1%	191465-1001	
R9	6.04K, 0603, .1W, 1%	191465-6041	
R10	9.09K OHMS, 0603, .1W, 1%	191465-9091	
R11	100 OHM, 0603, .1W, 5%	199403-101	
R12	100 OHM, 0603, .1W, 5%	199403-101	
R13	9.09K OHMS, 0603, .1W, 1%	191465-9091	
R14	18.2K, 0603, .1W, 1%	191465-1822	
R15	1K, 0603, .1W, 1%	191465-1001	
R18	100 OHM, 0603, .1W, 5%	199403-101	
R19	1K, 0603, .1W, 1%	191465-1001	
R20	499 OHM, 0603, .1W, 1%	191465-4990	
R21	499 OHM, 0603, .1W, 1%	191465-4990	
R22	499 OHM, 0603, .1W, 1%	191465-4990	
R26	10K, 0603, .1W, 5%	199403-103	
R27	100 OHM, 0603, .1W, 5%	199403-101	
R28	10K, 0603, .1W, 5%	199403-103	
R3200	5.6K, 0603, .1W, 5%	199403-562	
R3202	5.6K, 0603, .1W, 5%	199403-562	
R3203	10K, 0603, .1W, 5%	199403-103	
R3204	10K, 0603, .1W, 5%	199403-103	
R3206	5.6K, 0603, .1W, 5%	199403-562	
R3207	10K, 0603, .1W, 5%	199403-103	
R3209	5.6K, 0603, .1W, 5%	199403-562	
R3210	5.6K, 0603, .1W, 5%	199403-562	
R3212	10K, 0603, .1W, 5%	199403-103	
R3213	5.6K, 0603, .1W, 5%	199403-562	
R3214	10K, 0603, .1W, 5%	199403-103	
R3215	5.6K, 0603, .1W, 5%	199403-562	
R3217	5.6K, 0603, .1W, 5%	199403-562	
R4000	1.00K, 0805, 1/10W, 1%	133625-1001	
R4001	1.00K, 0805, 1/10W, 1%	133625-1001	
R4002	1.00K, 0805, 1/10W, 1%	133625-1001	
R4003	1.00K, 0805, 1/10W, 1%	133625-1001	
R4005	1.00K, 0805, 1/10W, 1%	133625-1001	
R4006	1.00K, 0805, 1/10W, 1%	133625-1001	
R4007	1.00K, 0805, 1/10W, 1%	133625-1001	
R4008	1.00K, 0805, 1/10W, 1%	133625-1001	
R4009	100K, 0603, .1W, 1%	191465-1003	
R4010	100K, 0603, .1W, 1%	191465-1003	
R4011	100K, 0603, .1W, 1%	191465-1003	
R4012	100K, 0603, .1W, 1%	191465-1003	
R4013	100K, 0603, .1W, 1%	191465-1003	
R4014	100K, 0603, .1W, 1%	191465-1003	

Main PCB Electrical Part List

Resistors (continued)

Reference Designator	Description	Part Number	Note
R4015	100K, 0603, .1W, 1%	191465-1003	
R4016	100K, 0603, .1W, 1%	191465-1003	
R4018	150 OHMS, 0603, .1W, 1%	191465-1500	
R4019	150 OHMS, 0603, .1W, 1%	191465-1500	
R4020	49.9 OHM, 0603, .1W, 1%	191465-49R9	
R4021	49.9 OHM, 0603, .1W, 1%	191465-49R9	
R4022	49.9 OHM, 0603, .1W, 1%	191465-49R9	
R4023	49.9 OHM, 0603, .1W, 1%	191465-49R9	
R4024	100K, 0603, .1W, 1%	191465-1003	
R4025	100K, 0603, .1W, 1%	191465-1003	
R4026	100K, 0603, .1W, 1%	191465-1003	
R4027	100K, 0603, .1W, 1%	191465-1003	
R4028	100K, 0603, .1W, 1%	191465-1003	
R4029	100K, 0603, .1W, 1%	191465-1003	
R4034	150 OHM, 0805, 1/10W, 5%	133626-1515	
R4035	150 OHM, 0805, 1/10W, 5%	133626-1515	
R4036	100K, 0603, .1W, 1%	191465-1003	
R4037	100K, 0603, .1W, 1%	191465-1003	
R4038	330 OHM, 0805, 1/10W, 5%	133626-3315	
R4039	22 OHMS, 0603, .1W, 5%	199403-220	
R4040	10K, 0603, .1W, 1%	191465-1002	
R4041	10K, 0603, .1W, 1%	191465-1002	
R4042	49.9 OHM, 0603, .1W, 1%	191465-49R9	
R4043	49.9 OHM, 0603, .1W, 1%	191465-49R9	
R4044	100K, 0603, .1W, 1%	191465-1003	
R4045	100K, 0603, .1W, 1%	191465-1003	
R4200	2.21K, 0603, .1W, 1%	191465-2211	
R4201	2.21K, 0603, .1W, 1%	191465-2211	
R4202	332 OHM, 0603, .1W, 1%	191465-3320	
R4203	750 OHMS, 0603, .1W, 5%	199403-751	
R4204	3.9K, 0603, .1W, 5%	199403-392	
R4205	10 OHM, 0603, .1W, 5%	199403-100	
R4206	2.2K, 0603, .1W, 5%	199403-222	
R4207	150HM, 0805, 1/10W, 5%	133626-1505	
R4208	4.75K, 0603, .1W, 1%	191465-4751	
R4209	4.75K, 0603, .1W, 1%	191465-4751	
R4210	10K, 0603, .1W, 5%	199403-103	
R4211	1K, 0603, .1W, 1%	191465-1001	
R4212	750 OHMS, 0603, .1W, 5%	199403-751	
R4213	3.9K, 0603, .1W, 5%	199403-392	
R4214	10 OHM, 0603, .1W, 5%	199403-100	
R4215	2.2K, 0603, .1W, 5%	199403-222	
R4216	150HM, 0805, 1/10W, 5%	133626-1505	
R4217	10K, 0603, .1W, 1%	191465-1002	
R4218	23.2K, 0603, .1W, 1%	191465-2322	
R4219	4.7K, 0603, .1W, 5%	199403-472	
R4220	4.7K, 0603, .1W, 5%	199403-472	
R4221	47K, 0603, .1W, 5%	199403-473	
R4222	10K, 0603, .1W, 5%	199403-103	

Main PCB Electrical Part List

Resistors (continued)

Reference Designator	Description	Part Number	Note
R5000	75 OHMS, 0603, .1W, 5%	199403-750	
R5001	75 OHMS, 0603, .1W, 5%	199403-750	
R5002	75 OHMS, 0603, .1W, 5%	199403-750	
R6200	10K, 0603, .1W, 5%	199403-103	
R6201	1K, 0603, .1W, 5%	199403-102	
R6202	10K, 0603, .1W, 5%	199403-103	
R6203	10K, 0603, .1W, 5%	199403-103	
R6204	10K, 0603, .1W, 5%	199403-103	
R6205	10K, 0603, .1W, 5%	199403-103	
R6206	10K, 0603, .1W, 5%	199403-103	
R6207	10K, 0603, .1W, 5%	199403-103	
R6208	10K, 0603, .1W, 5%	199403-103	
R6209	10K, 0603, .1W, 5%	199403-103	
R6210	1K, 0603, .1W, 5%	199403-102	
R6212	1K, 0603, .1W, 5%	199403-102	
R6213	1K, 0603, .1W, 5%	199403-102	
R6214	100K, 0603, .1W, 5%	199403-104	
R6215	1K, 0603, .1W, 5%	199403-102	
R6400	1K, 0603, .1W, 5%	199403-102	
R6402	10K, 0603, .1W, 5%	199403-103	
R6403	10K, 0603, .1W, 5%	199403-103	
R6405	1K, 0603, .1W, 5%	199403-102	
R6406	1K, 0603, .1W, 5%	199403-102	
R6407	4.99K, 0603, .1W, 1%	191465-4991	
R6408	8.25 OHM, 0603, 100mW, 1%, SMD	191465-8R25	
R6409	8.25 OHM, 0603, 100mW, 1%, SMD	191465-8R25	
R6410	49.9 OHM, 0603, .1W, 1%	191465-49R9	
R6411	49.9 OHM, 0603, .1W, 1%	191465-49R9	
R6412	10K, 0603, .1W, 5%	199403-103	
R6413	3.3K, 0603, .1W, 5%	199403-332	
R6500	22 OHMS, 0603, .1W, 5%	199403-220	
R6501	22 OHMS, 0603, .1W, 5%	199403-220	
R6502	10K, 0603, .1W, 5%	199403-103	
R6503	22 OHMS, 0603, .1W, 5%	199403-220	
R6504	2.21K, 0603, .1W, 1%	191465-2211	
R6700	1K, 0603, .1W, 1%	191465-1001	
R6701	100 OHM, 0603, .1W, 5%	199403-101	
R6702	100 OHM, 0603, .1W, 5%	199403-101	
R6704	1K, 0603, .1W, 5%	199403-102	
R6705	1K, 0603, .1W, 1%	191465-1001	
R6706	1K, 0603, .1W, 1%	191465-1001	
R6707	100 OHM, 0603, .1W, 5%	199403-101	
R6709	75OHM, 0805, 1/10W, 5%	133626-7505	
R6710	75OHM, 0805, 1/10W, 5%	133626-7505	
R6711	499 OHM, 0603, .1W, 1%	191465-4990	
R6715	22 OHMS, 0603, .1W, 5%	199403-220	
R6717	10K, 0603, .1W, 5%	199403-103	
R6718	10K, 0603, .1W, 5%	199403-103	
R6719	10K, 0603, .1W, 5%	199403-103	

Main PCB Electrical Part List

Resistors (continued)

Reference Designator	Description	Part Number	Note
R6721	2.21K, 0603, .1W, 1%	191465-2211	
R6723	10 OHM, 0603, .1W, 5%	199403-100	
R6724	2.21K, 0603, .1W, 1%	191465-2211	
R6751	4.75K, 0603, .1W, 1%	191465-4751	
R6752	1K, 0603, .1W, 1%	199403-102	
R6753	1K, 0603, .1W, 5%	191465-101	
R6754	1.21K, 0603, .1W,1%	191465-1211	
R6755	4.75K, 0603, .1W, 1%	191465-4751	
R6756	24.9K, 0603, .1W, 1%	191465-2492	
R6757	10K, 0603, .1W, 5%	199403-103	
R6758	499 OHM, 0603, .1W, 1%	191465-4990	
R6759	499 OHM, 0603, .1W, 1%	191465-4990	
R6760	49.9K, 0603, .1W, 1%	191465-4992	
R6761	2.0K, 0603, .1W, 5%	199403-202	
R6762	1K, 0603, .1W, 5%	199403-102	
R6765	49.9K, 0603, .1W, 1%	191465-4992	
R6766	49.9K, 0603, .1W, 1%	191465-4992	
R6767	7.87K, 0603, .1W, 1%	191465-7871	
R6809	1K, 0603, .1W, 5%	199403-102	
R6810	1K, 0603, .1W, 5%	199403-102	
R6811	2.21K, 0603, .1W, 1%	191465-2211	
R6812	2.21K, 0603, .1W, 1%	191465-2211	
R6813	470 OHM, 0603, .1W, 1%	191465-4R70	
R6814	499 OHM, 0603, .1W, 1%	191465-4990	
R6815	10K, 0603, .1W, 5%	199403-103	
R7000	10K, 0603, .1W, 5%	199403-103	
R7001	100 OHM, 0603, .1W, 5%	199403-101	
R7002	100 OHM, 0603, .1W, 5%	199403-101	
R7003	1.5K, 0603, SMD, 100mW, 5%	199403-152	
R7004	3.32 OHM 0603, 100mW, 1%, SMD	191465-3R32	
R7005	1.5K, 0603, SMD, 100mW, 5%	199403-152	
R7006	909 OHM, 0603, .1W, 1%	191465-9090	
R7007	15K, 0603, .1W, 5%	199403-153	
R7008	1K, 0603, .1W, 5%	199403-102	
R7009	100 OHM, 0603, .1W, 5%	199403-101	
R7010	100 OHM, 0603, .1W, 5%	199403-101	
R7013	750 OHMS, 0603, .1W, 5%	199403-751	
R7014	1K, 0603, .1W, 5%	199403-102	
R7015	4.7K, 0603, .1W, 5%	199403-472	
R7016	9.09K OHMS, 0603, .1W, 1%	191465-9091	
R7017	9.09K OHMS, 0603, .1W, 1%	191465-9091	
R7018	909 OHM, 0603, .1W, 1%	191465-9090	
R7019	1K, 0603, .1W, 5%	199403-102	
R7020	2.21K, 0603, .1W, 1%	191465-2211	
R7258	100 OHM, 0603, .1W, 5%	199403-101	
R7259	187 OHM, 0603, .1W, 1%	191465-1870	
R7260	187 OHM, 0603, .1W, 1%	191465-1870	
R7750	100 OHM, 0603, .1W, 5%	199403-101	
R7752	100 OHM, 0603, .1W, 5%	199403-101	

Main PCB Electrical Part List

Resistors (continued)

Reference Designator	Description	Part Number	Note
R7753	100 OHM, 0603, .1W, 5%	199403-101	
R7754	100 OHM, 0603, .1W, 5%	199403-101	
R7755	100 OHM, 0603, .1W, 5%	199403-101	
R7756	100 OHM, 0603, .1W, 5%	199403-101	
R7757	22 OHMS, 0603, .1W, 5%	199403-220	
R7758	10K, 0603, .1W, 5%	199403-103	
R7759	100 OHM, 0603, .1W, 5%	199403-101	
R8000	75 OHMS, 0603, .1W, 5%	199403-750	
R8001	75 OHMS, 0603, .1W, 5%	199403-750	
R8002	75 OHMS, 0603, .1W, 5%	199403-750	
R8003	75 OHMS, 0603, .1W, 5%	199403-750	
R8004	75 OHM, 0805, 1/10W, 5%	133626-7505	
R8005	75 OHM, 0805, 1/10W, 5%	133626-7505	
R8006	75 OHM, 0805, 1/10W, 5%	133626-7505	
R8007	75 OHM, 0805, 1/10W, 5%	133626-7505	
R8008	2.21K, 0603, .1W, 1%	191465-2211	
R8009	3.3K, 0603, .1W, 5%	199403-332	
R8010	249 OHM, 0603, .1W, 1%	191465-2490	
R8011	47K, 0603, .1W, 5%	199403-473	
R8012	22 OHMS, 0603, .1W, 5%	199403-220	
R8013	107 OHM, 0603, 100mW, 1%, SMD	191465-1070	
R8014	1.21K, 0603, .1W, 1%	191465-1211	
R8015	100 OHM, 0603, .1W, 5%	199403-101	
R8016	100 OHM, 0603, .1W, 5%	199403-101	
R8017	100 OHM, 0603, .1W, 5%	199403-101	
R8018	22 OHMS, 0603, .1W, 5%	199403-220	
R8019	1.0 OHM, 0603, .1W, 1%	191465-01R0	
R8020	1.0 OHM, 0603, .1W, 1%	191465-01R0	
R8021	1.0 OHM, 0603, .1W, 1%	191465-01R0	
R8400	1M, 0603, .1W, 5%	199403-105	
R8401	22 OHMS, 0603, .1W, 5%	199403-220	
R8402	1K, 0603, .1W, 5%	199403-102	
R8403	22 OHMS, 0603, .1W, 5%	199403-220	
R8404	22 OHMS, 0603, .1W, 5%	199403-220	
R8405	22 OHMS, 0603, .1W, 5%	199403-220	
R8406	22 OHMS, 0603, .1W, 5%	199403-220	
R8407	4.70 OHM, 0603, 100mW, 1%, SMD	191465-4R70	
R8408	4.70 OHM, 0603, 100mW, 1%, SMD	191465-4R70	
R8409	22 OHMS, 0603, .1W, 5%	199403-220	
R8410	22 OHMS, 0603, .1W, 5%	199403-220	
R8411	187 OHM, 0603, .1W, 1%	191465-1870	
R8412	187 OHM, 0603, .1W, 1%	191465-1870	
R8413	187 OHM, 0603, .1W, 1%	191465-1870	
R8414	187 OHM, 0603, .1W, 1%	191465-1870	
R8416	22 OHMS, 0603, .1W, 5%	199403-220	
R8417	22 OHMS, 0603, .1W, 5%	199403-220	
R8418	22 OHMS, 0603, .1W, 5%	199403-220	
R8419	14K, 0603, .1W, 1%	191465-1402	

Main PCB Electrical Part List

Resistors (continued)

Reference Designator	Description	Part Number	Note
R8420	14K, 0603, .1W, 1%	191465-1402	
R8421	14K, 0603, .1W, 1%	191465-1402	
R8422	14K, 0603, .1W, 1%	191465-1402	
R8423	14K, 0603, .1W, 1%	191465-1402	
R8424	14K, 0603, .1W, 1%	191465-1402	
R8425	3.24K, 0603, .1W, 1%	191465-3241	
R8426	3.24K, 0603, .1W, 1%	191465-3241	
R8427	3.24K, 0603, .1W, 1%	191465-3241	
R8428	3.24K, 0603, .1W, 1%	191465-3241	
R8429	14K, 0603, .1W, 1%	191465-1402	
R8430	14K, 0603, .1W, 1%	191465-1402	
R8431	4.70 OHM, 0603, 100mW, 1%, SMD	191465-4R70	
R8600	4.75K, 0603, .1W, 1%	191465-4751	
R8601	4.75K, 0603, .1W, 1%	191465-4751	
R8602	14K, 0603, .1W, 1%	191465-1402	
R8603	14K, 0603, .1W, 1%	191465-1402	
R8604	8.25K, 0603, 100mW, 1%	191465-8251	
R8605	14K, 0603, .1W, 1%	191465-1402	
R8606	8.25K, 0603, 100mW, 1%	191465-8251	
R8607	14K, 0603, .1W, 1%	191465-1402	
R8608	22 OHMS, 0603, .1W, 5%	199403-220	
R8609	14K, 0603, .1W, 1%	191465-1402	
R8610	14K, 0603, .1W, 1%	191465-1402	
R8611	3.24K, 0603, .1W, 1%	191465-3241	
R8612	3.24K, 0603, .1W, 1%	191465-3241	
R8613	3.24K, 0603, .1W, 1%	191465-3241	
R8614	22 OHMS, 0603, .1W, 5%	199403-220	
R8615	22 OHMS, 0603, .1W, 5%	199403-220	
R8616	22 OHMS, 0603, .1W, 5%	199403-220	
R8617	22 OHMS, 0603, .1W, 5%	199403-220	
R8618	3.24K, 0603, .1W, 1%	191465-3241	
R8619	14K, 0603, .1W, 1%	191465-1402	
R8620	14K, 0603, .1W, 1%	191465-1402	
R8622	1K, 0603, .1W, 1%	191465-1001	
R8624	178 OHM, 0603, .1W, 1%	191465-1780	
R8626	100 OHM, 0603, .1W, 5%	199403-101	
R8628	100 OHM, 0603, .1W, 5%	199403-101	
R8630	JUMPER, CHIP, 0603	196042	
R8631	JUMPER, CHIP, 0603	196042	
R8632	22 OHMS, 0603, .1W, 5%	199403-220	
R8633	22 OHMS, 0603, .1W, 5%	199403-220	
R8634	22 OHMS, 0603, .1W, 5%	199403-220	
R8635	22 OHMS, 0603, .1W, 5%	199403-220	
R8636	2.21K, 0603, .1W, 1%	191465-2211	
R8637	3.24K, 0603, .1W, 1%	191465-3241	
R8638	22 OHMS, 0603, .1W, 5%	199403-220	
R8639	4.70 OHM, 0603, 100mW, 1%, SMD	191465-4R70	
R8640	100 OHM, 0603, .1W, 5%	199403-101	

Main PCB Electrical Part List

Capacitors

Reference Designator	Description	Part Number	Note
C1	.047uF, 0805, X7R, 50V, 10%	133623-473	
C2	.047uF, 0805, X7R, 50V, 10%	133623-473	
C3	.047uF, 0805, X7R, 50V, 10%	133623-473	
C4	.047uF, 0805, X7R, 50V, 10%	133623-473	
C5	.047uF, 0805, X7R, 50V, 10%	133623-473	
C6	.047uF, 0805, X7R, 50V, 10%	133623-473	
C7	330uF, EL, 105, 20%, 50V	258490-331B24H	
C8	330uF, EL, 105, 20%, 50V	258490-331B24H	
C9	.047uF0805, X7R, 50V, 10%	133623-473	
C10	.047uF0805, X7R, 50V, 10%	133623-473	
C11	2200pF, 0603, X7R, 50V	191470-222	
C12	2200pF, 0603, X7R, 50V	191470-222	
C13	.047uF, 0603, X7R, 5%, 25V	196999-473	
C14	.047uF0805, X7R, 50V, 10%	133623-473	
C15	.047uF, 0603, X7R, 5%, 25V	196999-473	
C16	.047uF0805, X7R, 50V, 10%	133623-473	
C17	680pF, 0603, X7R, 50V	191470-681	
C18	0.47uF, 1812, X7R, 50V, 20%	258418-4743	
C19	820pF, 0603, X7R, 50V	191470-821	
C20	0.47uF, 1812, X7R, 50V, 20%	258418-4743	
C21	0.47uF, 1812, X7R, 50V, 20%	258418-4743	
C22	0.47uF, 1812, X7R, 50V, 20%	258418-4743	
C23	.047uF, 0603, X7R, 5%, 25V	196999-473	
C25	680pF, 0603, X7R, 50V	191470-681	
C26	3.9nF, 0603, X7R, 5%, 25V	196999-392	
C27	1000uF, EL, 105, 20%, 25V	258490-102B25E	
C28	.047uF, 0603, X7R, 5%, 25V	196999-473	
C29	.047uF, 0603, X7R, 5%, 25V	196999-473	
C30	1000uF, EL, 105, 20%, 25V	258490-102B25E	
C31	.047uF, 0603, X7R, 5%, 25V	196999-473	
C32	330uF, EL, SMD, 105, 10V, 20%	256772-331A	
C33	.047uF, 0603, X7R, 5%, 25V	196999-473	
C3200	.047uF, 0603, X7R, 5%, 25V	196999-473	
C3201	.047uF, 0603, X7R, 5%, 25V	196999-473	
C3202	.047uF, 0603, X7R, 5%, 25V	196999-473	
C3203	.047uF, 0603, X7R, 5%, 25V	196999-473	
C3204	10uF, EL, 85, 16V, 20%	177902-100C	
C3205	.047uF, 0603, X7R, 5%, 25V	196999-473	
C3206	.047uF, 0603, X7R, 5%, 25V	196999-473	
C4000	180pF, 0805, COG, 50V	133622-181	
C4001	180pF, 0805, COG, 50V, 5%	133622-181	
C4002	180pF, 0805, COG, 50V, 5%	133622-181	
C4003	180pF, 0805, COG, 50V, 5%	133622-181	
C4004	180pF, 0805, COG, 50V, 5%	133622-181	
C4005	180pF, 0805, COG, 50V, 5%	133622-181	
C4006	180pF, 0805, COG, 50V, 5%	133622-181	
C4007	180pF, 0805, COG, 50V, 5%	133622-181	
C4008	47uF, EL, 85, 16V, 20%	177902-4R7V	
C4009	47uF, EL, 85, 16V, 20%	177902-4R7V	

Main PCB Electrical Part List

Capacitors (continued)

Reference Designator	Description	Part Number	Note
C4010	47uF, EL, 85, 16V, 20%	177902-4R7V	
C4011	47uF, EL, 85, 16V, 20%	177902-4R7V	
C4012	47uF, EL, 85, 16V, 20%	177902-4R7V	
C4013	47uF, EL, 85, 16V, 20%	177902-4R7V	
C4014	47uF, EL, 85, 16V, 20%	177902-4R7V	
C4015	47uF, EL, 85, 16V, 20%	177902-4R7V	
C4016	47uF, EL, 85, 16V, 20%	177902-4R7V	
C4017	47uF, EL, 85, 16V, 20%	177902-4R7V	
C4018	.047uF, 0603, X7R, 5%, 25V	196999-473	
C4019	330uF, EL, SMD, 105, 10V, 20%	256772-331A	
C4020	.047uF, 0603, X7R, 5%, 25V	196999-473	
C4021	.047uF, 0603, X7R, 5%, 25V	196999-473	
C4022	.047uF, 0603, X7R, 5%, 25V	196999-473	
C4023	.047uF, 0603, X7R, 5%, 25V	196999-473	
C4024	2.2uF, EL, 85, 35V, 20%	177902-2R2V	
C4025	2.2uF, EL, 85, 35V, 20%	177902-2R2V	
C4026	2.2uF, EL, 85, 35V, 20%	177902-2R2V	
C4027	2.2uF, EL, 85, 35V, 20%	177902-2R2V	
C4028	22uF, EL, 85, 20%, 16V	177902-220C	
C4029	22uF, EL, 85, 20%, 16V	177902-220C	
C4030	47uF, EL, 85, 16V, 20%	177902-470C	
C4031	22uF, EL, 85, 20%, 16V	177902-220C	
C4032	22uF, EL, 85, 20%, 16V	177902-220C	
C4033	47uF, EL, 85, 16V, 20%	177902-470C	
C4034	2200pF, 0603, X7R, 50V	191470-222	
C4035	2200pF, 0603, X7R, 50V	191470-222	
C4036	2200pF, 0603, X7R, 50V	191470-222	
C4037	2200pF, 0603, X7R, 50V	191470-222	
C4038	2200pF, 0603, X7R, 50V	191470-222	
C4039	2200pF, 0603, X7R, 50V	191470-222	
C4040	22uF, EL, 85, 20%, 16V	177902-220C	
C4041	22uF, EL, 85, 20%, 16V	177902-220C	
C4044	22uF, EL, 85, 20%, 16V	177902-220C	
C4045	47uF, EL, 85, 16V, 20%	177902-470C	
C4046	47uF, EL, 85, 16V, 20%	177902-470C	
C4047	2200pF, 0603, X7R, 50V	191470-222	
C4048	2200pF, 0603, X7R, 50V	191470-222	
C4049	.047uF, 0603, X7R, 5%, 25V	196999-473	
C4050	.01uF, 0603, X7R, 50V	191470-103	
C4051	.01uF, 0603, X7R, 50V	191470-103	
C4200	100pF, 0603, X7R, 50V	191470-101	
C4201	1000pF, 0603, X7R, 50V	191470-102	
C4202	.047uF, 0603, X7R, 5%, 25V	196999-473	
C4203	.01uF, 0603, X7R, 50V	191470-103	
C4204	1000uF, EL, 85, 16V, 20%	149948-102C	
C4205	1000uF, EL, 85, 16V, 20%	149948-102C	
C4206	1000pF, 0603, X7R, 50V	191470-102	
C4207	100pF, 0603, COG, 50V, 5%	188454-101	
C4208	100pF, 0603, COG, 50V, 5%	188454-101	

Main PCB Electrical Part List

Capacitors (continued)

Reference Designator	Description	Part Number	Note
C4209	.01uF, 0603, X7R, 50V	191470-103	
C4210	470pF, 0603, X7R, 50V	191470-471	
C4211	470pF, 0603, X7R, 50V	191470-471	
C5000	150pF, 0603, COG, 50V, 5%	188454-151	
C5002	270pF, 0603, COG, 50V	188454-271	
C5004	150pF, 0603, COG, 50V, 5%	188454-151	
C5006	270pF, 0603, COG, 50V	188454-271	
C5008	150pF, 0603, COG, 50V, 5%	188454-151	
C5010	270pF, 0603, COG, 50V	188454-271	
C5012	100pF, 0603, COG, 50V, 5%	188454-101	
C5013	100pF, 0603, COG, 50V, 5%	188454-101	
C5014	100pF, 0603, COG, 50V, 5%	188454-101	
C5015	150pF, 0603, COG, 50V, 5%	188454-151	
C5016	150pF, 0603, COG, 50V, 5%	188454-151	
C5017	150pF, 0603, COG, 50V, 5%	188454-151	
C6200	.047uF, 0603, X7R, 5%, 25V	196999-473	
C6201	1000pF, 0603, X7R, 50V	191470-102	
C6202	.047uF, 0603, X7R, 5%, 25V	196999-473	
C6203	1000pF, 0603, X7R, 50V	191470-102	
C6204	.047uF, 0603, X7R, 5%, 25V	196999-473	
C6206	.047uF, 0603, X7R, 5%, 25V	196999-473	
C6207	1000pF, 0603, X7R, 50V	191470-102	
C6208	.047uF, 0603, X7R, 5%, 25V	196999-473	
C6209	1000pF, 0603, X7R, 50V	191470-102	
C6210	.047uF, 0603, X7R, 5%, 25V	196999-473	
C6211	1000pF, 0603, X7R, 50V	191470-102	
C6212	.047uF, 0603, X7R, 5%, 25V	196999-473	
C6213	.047uF, 0603, X7R, 5%, 25V	196999-473	
C6215	.047uF, 0603, X7R, 5%, 25V	196999-473	
C6216	.047uF, 0603, X7R, 5%, 25V	196999-473	
C6219	.01uF, 0603, X7R, 50V	191470-103	
C6221	.047uF, 0603, X7R, 5%, 25V	196999-473	
C6223	.047uF, 0603, X7R, 5%, 25V	196999-473	
C6224	.047uF, 0603, X7R, 5%, 25V	196999-473	
C6225	22uF, 1411, TANT, 6.3V, 20%	188588-226	
C6226	22uF, 1411, TANT, 6.3V, 20%	188588-226	
C6400	.047uF, 0603, X7R, 5%, 25V	196999-473	
C6401	.047uF, 0603, X7R, 5%, 25V	196999-473	
C6402	.047uF, 0603, X7R, 5%, 25V	196999-473	
C6403	.047uF, 0603, X7R, 5%, 25V	196999-473	
C6404	.047uF, 0603, X7R, 5%, 25V	196999-473	
C6405	22uF, EL, 85, 20%, 16V	177902-220C	
C6406	.047uF, 0603, X7R, 5%, 25V	196999-473	
C6407	.047uF, 0603, X7R, 5%, 25V	196999-473	
C6408	.047uF, 0603, X7R, 5%, 25V	196999-473	
C6409	.047uF, 0603, X7R, 5%, 25V	196999-473	
C6410	560pF, 0603, X7R, 50V	191470-561	
C6504	180pF, 0603, COG, 50V	188454-181	
C6505	.047uF, 0603, X7R, 5%, 25V	196999-473	

Main PCB Electrical Part List

Capacitors (continued)

Reference Designator	Description	Part Number	Note
C6700	330pF, 0603, COG, 50V, 5%	188454-331	
C6701	330pF, 0603, COG, 50V, 5%	188454-331	
C6702	330pF, 0603, COG, 50V, 5%	188454-331	
C6703	330pF, 0603, COG, 50V, 5%	188454-331	
C6704	330pF, 0603, COG, 50V, 5%	188454-331	
C6705	330pF, 0603, COG, 50V, 5%	188454-331	
C6706	330pF, 0603, COG, 50V, 5%	188454-331	
C6707	330pF, 0603, COG, 50V, 5%	188454-331	
C6708	.047uF, 0603, X7R, 5%, 25V	196999-473	
C6710	1000pF, 0603, X7R, 50V	191470-102	
C6750	1.5pF, 0603, COG, 50V	188454-1R5	
C6751	1.5pF, 0603, COG, 50V	188454-1R5	
C6752	4700pF, 0603, X7R, 50V	191470-472	
C6753	0.10uF, 0603, 16V, 5%	258498-104	
C6754	0.10uF, 0603, 16V, 5%	258498-104	
C6755	0.10uF, 0603, 16V, 5%	258498-104	
C6756	0.10uF, 0603, 16V, 5%	258498-104	
C6807	1000pF, 0603, X7R, 50V	191470-102	
C6808	1000pF, 0603, X7R, 50V	191470-102	
C6809	22uF, EL, 85, 20%, 16V	177902-220C	
C7000	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7001	22pF, 0603, COG, 50V, 5%	188454-220	
C7002	22pF, 0603, COG, 50V, 5%	188454-220	
C7003	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7004	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7005	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7006	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7007	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7008	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7009	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7010	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7011	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7012	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7013	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7014	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7015	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7016	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7017	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7018	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7019	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7020	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7021	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7022	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7023	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7024	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7026	22uF, 1411, TANT, 6.3V, 20%	188588-226	
C7250	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7251	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7252	.047uF, 0603, X7R, 5%, 25V	196999-473	

Main PCB Electrical Part List

Capacitors (continued)

Reference Designator	Description	Part Number	Note
C7253	47uF, EL, 85, 16V, 20%	177902-470C	
C7254	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7255	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7256	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7257	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7258	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7259	47uF, EL, 85, 16V, 20%	177902-470C	
C7260	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7261	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7262	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7263	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7264	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7265	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7266	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7267	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7268	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7269	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7270	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7271	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7272	.047uF, 0603, X7R, 5%, 25V	196999-473	
C8000	.047uF, 0603, X7R, 5%, 25V	196999-473	
C8001	.047uF, 0603, X7R, 5%, 25V	196999-473	
C8002	.01uF, 0603, X7R, 50V	191470-103	
C8003	.01uF, 0603, X7R, 50V	191470-103	
C8004	.01uF, 0603, X7R, 50V	191470-103	
C8005	.01uF, 0603, X7R, 50V	191470-103	
C8006	.01uF, 0603, X7R, 50V	191470-103	
C8007	.047uF, 0603, X7R, 5%, 25V	196999-473	
C8008	.01uF, 0603, X7R, 50V	191470-103	
C8010	.01uF, 0603, X7R, 50V	191470-103	
C8011	0.10uF, 0603, 16V, 5%	258498-104	
C8013	.047uF, 0603, X7R, 5%, 25V	196999-473	
C8015	4700pF, 0603, X7R, 50V	191470-472	
C8016	.047uF, 0603, X7R, 5%, 25V	196999-473	
C8018	390pF, 0603, COG, 50V	188454-391	
C8019	100pF, 0603, COG, 50V, 5%	188454-101	
C8020	100pF, 0603, COG, 50V, 5%	188454-101	
C8021	100pF, 0603, COG, 50V, 5%	188454-101	
C8022	100pF, 0603, COG, 50V, 5%	188454-101	
C8023	.01uF, 0603, X7R, 50V	191470-103	
C8400	47pF, 0603, COG, 50V, 5%	188454-470	
C8401	47pF, 0603, COG, 50V, 5%	188454-470	
C8402	.047uF, 0603, X7R, 5%, 25V	196999-473	
C8403	.047uF, 0603, X7R, 5%, 25V	196999-473	
C8404	.047uF, 0603, X7R, 5%, 25V	196999-473	
C8405	4.7nF, 0603, X7R, 5%, 25V	196999-472	
C8406	470pF, 0603, X7R, 50V	191470-471	
C8407	.047uF, 0603, X7R, 5%, 25V	196999-473	
C8408	.047uF, 0603, X7R, 5%, 25V	196999-473	

Main PCB Electrical Part List

Capacitors (continued)

Reference Designator	Description	Part Number	Note
C8409	.047uF, 0603, X7R, 5%, 25V	196999-473	
C8410	1000pF, 0603, X7R, 50V	191470-102	
C8411	.047uF, 0603, X7R, 5%, 25V	196999-473	
C8425	.047uF, 0603, X7R, 5%, 25V	196999-473	
C8426	220pF, 0603, COG, 50V, 5%	188454-221	
C8427	220pF, 0603, COG, 50V, 5%	188454-221	
C8428	220pF, 0603, COG, 50V, 5%	188454-221	
C8429	220pF, 0603, COG, 50V, 5%	188454-221	
C8430	.047uF, 0603, X7R, 5%, 25V	196999-473	
C8432	.047uF, 0603, X7R, 5%, 25V	196999-473	
C8433	10uF, EL, 85, 16V, 20%	177902-100C	
C8434	470pF, 0603, X7R, 50V	191470-471	
C8435	470pF, 0603, X7R, 50V	191470-471	
C8436	.047uF, 0603, X7R, 5%, 25V	196999-473	
C8600	10uF, EL, 85, 16V, 20%	177902-100C	
C8601	10uF, EL, 85, 16V, 20%	177902-100C	
C8602	10uF, EL, 85, 16V, 20%	177902-100C	
C8603	.047uF, 0603, X7R, 5%, 25V	196999-473	
C8604	.047uF, 0603, X7R, 5%, 25V	196999-473	
C8605	10uF, EL, 85, 16V, 20%	177902-100C	
C8606	2.2uF, EL, 85, 35V, 20%	177902-2R2V	
C8608	470pF, 0603, X7R, 50V	191470-471	
C8609	470pF, 0603, X7R, 50V	191470-471	
C8610	220pF, 0603, COG, 50V, 5%	188454-221	
C8611	.047uF, 0603, X7R, 5%, 25V	196999-473	
C8613	220pF, 0603, COG, 50V, 5%	188454-221	
C8614	220pF, 0603, COG, 50V, 5%	188454-221	
C8615	220pF, 0603, COG, 50V, 5%	188454-221	
C8616	.047uF, 0603, X7R, 5%, 25V	196999-473	
C8618	.047uF, 0603, X7R, 5%, 25V	196999-473	
C8619	.047uF, 0603, X7R, 5%, 25V	196999-473	
C8621	220pF, 0603, COG, 50V, 5%	188454-221	
C8622	220pF, 0603, COG, 50V, 5%	188454-221	
C8623	.047uF, 0603, X7R, 5%, 25V	196999-473	
C8624	.047uF, 0603, X7R, 5%, 25V	196999-473	
C8625	10uF, EL, 85, 16V, 20%	177902-100C	

Diodes

Reference Designator	Description	Part Number	Note
D1	SCHOTTKY, 40V, 3A, SMB	193847-001	
D2	SCHOTTKY, 40V, 3A, SMB	193847-001	
D4000	BAV99, SOT-23	147239	
D4200	BAV99, SOT-23	147239	
D4201	DUAL, SOT-23, BAW56	180738	
D4202	BAV99, SOT-23	147239	
D4203	BAV99, SOT-23	147239	
D5000	BAV99, SOT-23	147239	
D5001	BAV99, SOT-23	147239	

Main PCB Electrical Part List

Diodes (continued)

Reference Designator	Description	Part Number	Note
D5002	BAV99, SOT-23	147239	
D5003	BAV99, SOT-23	147239	
D6201	SHOTTKY, BAT42W, SOD-123	196984-002	
D6500	BAV99, SOT-23	147239	
D6700	BAV99, SOT-23	147239	
D6701	BAV99, SOT-23	147239	
D6702	BAV99, SOT-23	147239	
D6703	BAV99, SOT-23	147239	
D6704	BAV99, SOT-23	147239	
D6705	BAV99, SOT-23	147239	
D6706	BAV99, SOT-23	147239	
D6707	BAV99, SOT-23	147239	
D6710	BAV99, SOT-23	147239	
D6711	BAV99, SOT-23	147239	
D6750	IR EMITTING	256733-002	
D6751	IR EMITTING	256733-002	
D6752	IR EMITTING	256733-002	
D6753	IR EMITTING	256733-002	
D6754	IR RECEIVE	268878-001	
D6755	BAV99, SOT-23	147239	
D6800	BAV99, SOT-23	147239	
D6801	BAV99, SOT-23	147239	
D6802	BAV99, SOT-23	147239	
D7000	BAV99, SOT-23	147239	
D8000	BAV99, SOT-23	147239	
D8001	BAV99, SOT-23	147239	
D8002	BAV99, SOT-23	147239	
D8003	BAV99, SOT-23	147239	
D8600	BAV99, SOT-23	147239	

Transistors

Reference Designator	Description	Part Number	Note
Q4	BPLR, P, 40V, 200mA, SOT23	148596	
Q5	BPLR, N, 40V, 200mA, SOT23	146819	
Q6	BPLR, P, 40V, 200mA, SOT23	148596	
Q7	BPLR, N, 50V, 100mA, SOT23	146817	
Q3200	BPLR, N, 50V, 100mA, SOT23	146817	
Q4000	2SA1341, P, 50V	146818	
Q4001	2SA1341, P, 50V	146818	
Q4202	BPLR, N, 4.7K, SOT23	192603	
Q4204	BPLR, N, 50V, 100mA, SOT23	146817	
Q4205	SOT-23	260354-001	
Q4206	BPLR, N, 50V, 100mA, SOT23	146817	
Q4207	SOT-23	260354-001	
Q4208	BPLR, P, 40V, 200mA, SOT23	148596	
Q4209	BPLR, P, 40V, 200mA, SOT23	148596	
Q4210	BPLR, P, 40V, 200mA, SOT23	148596	

Main PCB Electrical Part List

Transistors

Reference Designator	Description	Part Number	Note
Q4211	BPLR, N, 40V, 200mA, SOT23	146819	
Q5000	BPLR, N, 4.7K, SOT23	192603	
Q6400	BPLR, N, 40V, 200mA, SOT23	146819	
Q6503	SOT-23	260354-001	
Q6504	BPLR, N, 4.7K, SOT23	192603	
Q6700	SOT-23	260354-001	
Q6702	SOT-23	260354-001	
Q6750	BPLR, N, 40V, 200mA, SOT23	146819	
Q6751	BPLR, N, 40V, 200mA, SOT23	146819	
Q6752	BPLR, N, 40V, 200mA, SOT23	146819	
Q6802	BPLR, N, 40V, 200mA, SOT23	146819	
Q6803	BPLR, N, 40V, 200mA, SOT23	146819	
Q6805	BPLR, N, 40V, 200mA, SOT23	146819	
Q8600	BPLR, N, 40V, 200mA, SOT23	146819	

Integrated Circuits

Reference Designator	Description	Part Number	Note
U1	VOLT REG, 3.3V, 3.5A, SMPS	193846-001	
U2	VOLT REG, 3.3V, 3.5A, SMPS	193846-001	
U3	IC, COUNTER, BINARY, 8-BIT, TSSOP	256115-002	
U4000	AUDIOMATRIX, SO28	177984-2	
U4001	AUDIO DECODER, STA013, QFP	267084-001	
U4002	AUDIO DECODER, STA013, QFP	267084-001	
U4003	OPAMP, DUAL, HI CURRENT	256741-001	
U4200	OPAMP, DUAL, RAIL TO RAIL	277563-001	
U6200	SDRAM, 256MBIT, 166MHZ, TSSOP	274511-001	
U6203	PROGRAMED FLASH, 4MBYTE, TSSOP	307636	
U6204	16 BIT BUS BUFFER, 74LCX16245	267613-001	
U6205	16 BIT BUS BUFFER, 74LCX16245	267613-001	
U6401	ETHERNET CONTROLLER	268867-001	
U6750	IR RECEIVER MODULE	256780-001	
U6751	OPAMP, DUAL, HI CURRENT	256741-001	
U6802	HEX BUFFER, CMOS	267619-001	
U7002	ET, SC70	267095-001	
U7003	CS98200	266925-001	
U8000	QUAD2 CHANNEL MUX, 74LCX157	260377-001	
U8001	RCVR, DIGAUD, CS8415A, TSSOP	267616-002	
U8005	INVERTER, 5V, 74VCHU04	258464-001	
U8400	AUDIO DECODER, STA013, QFP	266938-001	
U8401	COUNTER, BINARY, 12-STAGE	267543-001	
U8402	QUAD 2CHANNEL MUX, 74LCX157	260377-001	
U8403	DAC, 192KHZ, 24BIT, AK4382	267548-001	
U8404	OPAMP, DUAL, HI CURRENT	256741-001	
U8405	OPAMP, DUAL, HI CURRENT	256741-001	
U8600	AUDIO DECODER, STA013, QFP	267085-001	
U8601	DAC, 192KHZ, 24BIT, AK4382	267548-001	
U8602	OPAMP, DUAL, HI CURRENT	256741-001	
U8603	QUAD 2 CHANNEL MUX, 74LCX157	260377-001	
U8605	DIGITAL AUDIO XMIT, CS8406	268890-001	
U8606	QUAD 2 CHANNEL MUX, 74LCX157	260377-001	

Main PCB Electrical Part List

Inductors

Reference Designator	Description	Part Number	Note
L1	300uH	180504	
L2	100uH	131297	
L3200	22uH, COMMON MODE	187598-220 or 309310-220K	
L4300	SMT, 100uH	178370-101	
L4301	SMT, 100uH	178370-101	
L5000	CERAMIC, 1812, 5%, 1.0UH	263452-1R0J	
L5001	CERAMIC, 1812, 5%, 1.0UH	263452-1R0J	
L5002	CERAMIC, 1812, 5%, 1.0UH	263452-1R0J	
L5003	CERAMIC, 1812, 5%, 1.0UH	263452-1R0J	
L5004	CERAMIC, 1812, 5%, 1.0UH	263452-1R0J	
L5005	CERAMIC, 1812, 5%, 1.0UH	263452-1R0J	
L8600	330 OHM, BEAD, FERRITE, 0805, 1.5A	267539-331	
L8601	470 OHM, FERRITE BEAD, CHIP, 0603	259925-471	

Miscellaneous

Reference Designator	Description	Part Number	Note
FB6200	330 OHM, BEAD, FERRITE, 0805, 1.5A	267539-331	
FB7000	330 OHM, BEAD, FERRITE, 0805, 1.5A	267539-331	
FB7001	330 OHM, BEAD, FERRITE, 0805, 1.5A	267539-331	
FB7002	330 OHM, BEAD, FERRITE, 0805, 1.5A	267539-331	
FB7250	330 OHM, BEAD, FERRITE, 0805, 1.5A	267539-331	
FB7251	330 OHM, BEAD, FERRITE, 0805, 1.5A	267539-331	
FB7252	330 OHM, BEAD, FERRITE, 0805, 1.5A	267539-331	
FB7253	330 OHM, BEAD, FERRITE, 0805, 1.5A	267539-331	
FB8400	330 OHM, BEAD, FERRITE, 0805, 1.5A	267539-331	
K5000	RELAY, FLAT, POLARIZED	267094-001	
K5001	RELAY, FLAT, POLARIZED	267094-001	
J201	CONN, RCA JACK, W/GRND FLANGE	256106-002	
J202	CONN, DIN, DUAL, 9POS, W/FLANGE	268894-001	
J601	CONN, DIN, DUAL, 4POS, W/FLANGE	256107-002	
J3200	CONNECTOR, HEADER, 40PIN	256105-001	
J3201	CONNECTOR, EJECTOR HEADER, EHT	256109-44	
J3202	CONN, HEADER, 4 POS	148591-04	
J4200	CONN, HEADER, 4 POS	148591-04	
J4300	CONNECTOR, HEADER, RTANG, EH	256114-04	
J4301	CONN, JACK, HEADPHONE, PCB MNT, 9P	148583	
J6000	CONN, HEADER, 34P, TOP ENTRY, SMD	253356-T34	
J6500	CONN, HEADER, 5POS, TOP ENTRY, SMD	253356-T05	
J6700	CONN, HEADER, 11 POS	148591-11	
J6750	CONN, HEADER, RTANG, EH, 5POS	256114-05	
J6801	CONN, 3.5MM, DUAL, STEREO	268897-001	
J8000	CONNECTOR, OPTICAL, JFJ2001	258421-001	
J8001	CONNECTOR, OPTICAL, JFJ1000	258420-001	
T8600	TRANSFORMER, PULSE	254185-001	
VR1	VREG, 1.8V	271794-001	
Y6400	XTAL, 20.0MHZ, 18pF, HC49S, SMD	268873-005	
Y7000	XTAL, 27MHZ, 30PPM, HC-49/U/S	256102-005	
Y8400	CRYSTAL, 11.2896MHZ, HC49S, SMD	197225	

Tuner PCB Electrical Part List

Resistors

Reference Designator	Description	Part Number	Note
R15	845 OHM, 603, .1W, 1%	191465-8450	
R16	121 OHMS, 0603, .1W, 1%	191465-1210	
R17	33.2K, 0603, .1W, 1%	191465-3322	
R18	13K, 0603, .1W, 1%	191465-1302	
R19	10K, 0603, .1W, 1%	191465-1002	
R20	3.74K, 0603, .1W, 1%	191465-3741	
R21	1 OHM, 2010, 1/2W, 5%	187608-1R05	
R22	1K, 0603, .1W, 5%	199403-102	
R2000	1K, 0603, .1W, 5%	199403-102	
R2001	120 OHMS, 0603, .1W, 5%	199403-121	
R2002	150 OHMS, 0603, .1W, 5%	199403-151	
R2003	100K, 0603, .1W, 5%	199403-104	
R2004	4.7K, 0603, .1W, 5%	199403-473	
R2005	2.32K, 0603, .1W, 1%	191465-2321	
R2006	499 OHM, 0603, .1W, 1%	191465-4990	
R2007	2.32K, 0603, .1W, 1%	191465-2321	
R2008	330 OHM, 0603, .1W, 1%	191465-3300	
R2009	1.18 K, 0603, 100mW, 1%	191465-1181	
R2010	22 OHMS, 0603, .1W, 5%	199403-220	
R2011	4.75K, 0603, .1W, 1%	191465-4751	
R2012	100 OHM, 0603, .1W, 5%	199403-101	
R2013	17.8 K, 0603, 0.1W, 1%	191465-1782	
R2014	51 OHM, 0603, 100mW, 5%	199403-510	
R2015	2.32K, 0603, .1W, 1%	191465-2321	
R2016	3.01K, 0603, .1W, 1%	191465-3011	
R2017	5.1K, 0603, .1W, 5%	199403-512	
R2018	5.1K, 0603, .1W, 5%	199403-512	
R2019	51 OHM, 0603, 100mW, 5%	199403-510	
R2020	13K, 0603, .1W, 1%	191465-1302	
R2021	17.8 K, 0603, 0.1W, 1%	191465-1782	
R2022	3.32K, 0603, .1W, 1%	191465-3321	
R2023	3.32K, 0603, .1W, 1%	191465-3321	
R2024	2.21K, 0603, .1W, 1%	191465-2211	
R2025	2.21K, 0603, .1W, 1%	191465-2211	
R2026	4.75K, 0603, .1W, 1%	191465-4751	
R2027	5.62K, 0603, 100mW, 1%	191465-5621	
R2028	5.62K, 0603, 100mW, 1%	191465-5621	
R2030	68.1K, 0603, .1W, 1%	191465-6812	
R2031	4.75K, 0603, .1W, 1%	191465-4751	
R2032	3.01K, 0603, .1W, 1%	191465-3011	
R2033	33.2K, 0603, .1W, 1%	191465-3322	
R2073	1K, 0603, .1W, 5%	199403-102	
R2074	1K, 0603, .1W, 5%	199403-102	
R2075	100 OHM, 0603, .1W, 5%	199403-101	
R2076	2.2K, 0603, .1W, 5%	199403-222	
R2077	6.81K, 0603, 0.1W, 1%	191465-6811	
R2078	3.01K, 0603, .1W, 1%	191465-3011	
R2079	2.0K, 0603, .1W, 5%	199403-202	
R2080	3.32K, 0603, .1W, 1%	191465-3321	
R2081	1K, 0603, .1W, 1%	191465-1001	
R2082	1K, 0603, .1W, 5%	199403-102	

Tuner PCB Electrical Part List

Resistors (continued)

Reference Designator	Description	Part Number	Note
R2083	51 OHM, 0603, 100mW, 5%	199403-510	
R2084	1K, 0603, .1W, 1%	191465-1001	
R2085	3.32K, 0603, .1W, 1%	191465-3321	
R2090	100K, 0603, .1W, 5%	199403-104	
R2200	2.0K, 0603, .1W, 5%	199403-202	
R2201	2.0K, 0603, .1W, 5%	199403-202	
R2202	2.0K, 0603, .1W, 5%	199403-202	
R2203	2.0K, 0603, .1W, 5%	199403-202	
R6314	10K, 0603, .1W, 5%	199403-103	
R6315	499 OHM, 0603, .1W, 1%	191465-4990	
R6317	499 OHM, 0603, .1W, 1%	191465-4990	
R6319	499 OHM, 0603, .1W, 1%	191465-4990	
R6320	499 OHM, 0603, .1W, 1%	191465-4990	
R6321	499 OHM, 0603, .1W, 1%	191465-4990	
R6322	100K, 0603, .1W, 5%	199403-104	
R6323	1K, 0603, .1W, 5%	199403-102	
R6324	100K, 0603, .1W, 5%	199403-104	
R6325	100K, 0603, .1W, 5%	199403-104	
R6326	2.32K, 0603, .1W, 1%	191465-2321	
R6327	3.32K, 0603, .1W, 1%	191465-3321	
R6328	2.32K, 0603, .1W, 1%	191465-2321	
R6329	3.32K, 0603, .1W, 1%	191465-3321	
R6330	10K, 0603, .1W, 5%	199403-103	
R6700	20K, 0603, .1W, 1%	191465-2002	
R6701	100K, 0603, .1W, 5%	199403-104	
R6702	1M, 0603, .1W, 5%	199403-105	
R6703	3.01K, 0603, .1W, 1%	191465-3011	
R6704	1K, 0603, .1W, 1%	191465-1001	
R6705	20K, 0603, .1W, 1%	191465-2002	
R6706	49.9K, 0603, .1W, 1%	191465-4992	
R6707	10K, 0603, .1W, 5%	199403-103	
R6708	3.01K, 0603, .1W, 1%	191465-3011	
R6709	2.32K, 0603, .1W, 1%	191465-2321	
R6750	4.7K, 0603, .1W, 5%	199403-472	
R6751	47 OHM, 0603, SMD, 100mW	199403-470	
R6752	470 OHMS, 0603, .1W, 5% 402 OHM, ,0603, .1W, 1%	199403-471 191465-4020	US EURO
R6753	1K, 0603, 1%, 1W	191465-1001	
R6754	1K, 0603, .1W, 5%	199403-102	
R6755	68.1K, 0603, .1W, 1% 26.7K, 0603, .1W, 1%	191465-6812 191465-2672	US EURO
R6756	6.81K, 0603, 0.1W, 1%	191465-6811	
R6757	9.1K, 0603, .1W, 5%	199403-912	
R6758	2.0 OHM, 0603, SMD, 100mW	199403-2R0	
R6759	220 nH, 0805, 5% 22 OHMS, 0603, .1W, 5%	191469-221J 199403-220	US EURO
R6760	22 OHMS, 0603, .1W, 5%	199403-220	
R6761	10K, 0603, .1W, 5%	199403-103	
R6762	10K, 0603, .1W, 5%	199403-103	
R6802	681OHM, 0805, 1/10W, 1%	133625-6810	
R6803	681OHM, 0805, 1/10W, 1%	133625-6810	
R7000	1.5K, 0603, SMD, 100mW, 5%	199403-152	

Tuner PCB Electrical Part List

Resistors (continued)

Reference Designator	Description	Part Number	Note
R7001	1K, 0603, .1W, 5%	199403-102	
R7002	1.0 OHM, 0603, .1W, 1%	191465-01R0	
R7003	100 OHM, 0603, .1W, 5%	199403-101	
R7004	100 OHM, 0603, .1W, 5%	199403-101	
R7005	100 OHM, 0603, .1W, 5%	199403-101	
R7006	100 OHM, 0603, .1W, 5%	199403-101	
R7007	100 OHM, 0603, .1W, 5%	199403-101	
R7009	10K, 0603, .1W, 5%	199403-103	
R7010	2.21K, 0603, .1W, 1%	191465-2211	
R7011	2.21K, 0603, .1W, 1%	191465-2211	
R7012	2.21K, 0603, .1W, 1%	191465-2211	
R7013	100 OHM, 0603, .1W, 5%	199403-101	
R7014	100 OHM, 0603, .1W, 5%	199403-101	
R7015	100 OHM, 0603, .1W, 5%	199403-101	
R7016	100 OHM, 0603, .1W, 5%	199403-101	
R7017	100 OHM, 0603, .1W, 5%	199403-101	
R7018	2.21K, 0603, .1W, 1%	191465-2211	
R7019	51 OHM, 0603, 100mW, 5%	199403-510	

Capacitors

Reference Designator	Description	Part Number	Note
C1	1000pF, 0603, X7R, 50V	191470-102	
C2	390pF, 0603, COG, 50V	188454-391	
C3	390pF, 0603, COG, 50V	188454-391	
C4	6.8pF, 0603, COG, 50V, .5pF 3pF, 0603, COG, 50V	188454-6R8 188454-3R0	US EURO
C5	180pF, 0603, COG, 50V 39pF, 0603, COG, 50V, 5%	188454-181 188454-390	US EURO
C6	1000pF, 0603, X7R, 50V 39pF, 0603, COG, 50V, 5%	191470-102 188454-390	US EURO
C7	180pF, 0603, COG, 50V 39pF, 0603, COG, 50V, 5%	188454-181 188454-390	US EURO
C16	.047uF, 0603, X7R, 5%, 25V	196999-473	
C17	10uF, EL, 85, 16V, 20%	149947-100C	
C18	390uF, EL, 105C, 50V	196991-391H	
C19	.047uF, 0805, X7R, 50V, 10%	133623-473	
C20	2200pF, 0603, X7R, 50V	191470-222	
C21	.047uF, 0805, X7R, 50V, 10%	133623-473	
C22	0.10uF, 0603, 16V, 5%	258498-104	
C23	.47uF, BOX, 85, 50V, 5%	137127-474	
C24	470pF, 0603, COG, 50V, 5%	188454-471	
C25	.47uF, BOX, 85, 50V, 5%	137127-474	
C26	1000uF, EL, 105, 20%, 25V	258490-102B25E	
C27	0.1uF, 0805, X7R, 50V	133624	
C28	10uF, EL, 85, 16V, 20%	149947-100C	
C29	.047uF, 0805, X7R, 50V, 10%	133623-473	
C30	.047uF, 0805, X7R, 50V, 10%	133623-473	
C31	.047uF, 0805, X7R, 50V, 10%	133623-473	
C32	.047uF, 0805, X7R, 50V, 10%	133623-473	
C33	1800pF, 0603, X7R, 50V, 10%	191470-182	

Tuner PCB Electrical Part List

Capacitors (continued)

Reference Designator	Description	Part Number	Note
C41	.01uF, 0603, X7R, 50V	191470-103	
C2000	, 0805, COG, 50V, 5%, 15pF	133622-150	
C2001	.047uF, 0603, X7R, 5%, 25V	196999-473	
C2002	.047uF, 0603, X7R, 5%, 25V	196999-473	
C2003	9.1pF, 0603, COG, 50V	188454-9R1	
C2004	.047uF, 0603, X7R, 5%, 25V	196999-473	
C2005	2.2uF, EL, 85, 50V, 20%	149947-2R2H	
C2006	.047uF, 0603, X7R, 5%, 25V	196999-473	
C2007	.047uF, 0603, X7R, 5%, 25V	196999-473	
C2008	47uF, EL, 85, 16V, 20%	149947-470C	
C2009	.047uF, 0603, X7R, 5%, 25V	196999-473	
C2010	.47uF, 1206, X7R, 16V	181998-474	
C2011	47uF, EL, 85, 25V, 20%	149948-470E	
C2012	1.0uF, EL, 85, 50V, 20%	149947-1R0H	
C2013	180pF, 0603, COG, 50V	188454-181	
C2014	1.0uF, EL, 85, 50V, 20%	149947-1R0H	
C2015	1.0uF, EL, 85, 50V, 20%	149947-1R0H	
C2016	.47uF, EL, 85, 50V, 20%,	149947-R47H	
C2017	22uF, EL, 85, 25V, 20%	149947-220E	
C2018	560pF, 0603, X7R, 50V	191470-561	
C2019	47uF, EL, 85, 25V, 20%	149948-470E	
C2020	.01uF, 0603, X7R, 50V	191470-103	
C2021	10uF, EL, 85, 16V, 20%	149947-100C	
C2022	10uF, EL, 85, 16V, 20%	149947-100C	
C2023	10uF, EL, 85, 16V, 20%	149947-100C	
C2024	.047uF, 0603, X7R, 5%, 25V	196999-473	
C2025	3.3uF, EL, 85, 50V, 20%	149947-3R3H	
C2026	.047uF, 0603, X7R, 5%, 25V .033uF, 0603,X7R,25V	196999-473 196999-333	US EURO
C2027	.047uF, 0603, X7R, 5%, 25V .033uF, 0603, X7R, 25V	196999-473 196999-333	US EURO
C2073	.047uF, 0603, X7R, 5%, 25V	196999-473	
C2094	100uF, EL, 85, 16V, 20%	149948-101C	
C2095	.047uF, 0603, X7R, 5%, 25V	196999-473	
C2096	2.2uF, EL, BP, 85, 50V, 20%	147522-2R2	
C2097	.01uF, 0603, X7R, 50V	191470-103	
C2098	1000pF, 0603, X7R, 50V	191470-102	
C2099	1000pF, 0603, X7R, 50V	191470-102	
C2100	.047uF, 0603, X7R, 5%, 25V	196999-473	
C2200	100pF, 0603, COG, 50V, 5%	188454-101	
C6301	1pF, 0603, COG, 50V, .1pF	188454-1R0	
C6302	.047uF, 0603, X7R, 5%, 25V	196999-473	
C6303	.01uF, 0603, X7R, 50V	191470-103	
C6304	1pF, 0603, COG, 50V, .1pF	188454-1R0	
C6305	.047uF, 0603, X7R, 5%, 25V	196999-473	
C6306	10uF, EL, 85, 25V, 20%	149947-100E	
C6308	0.1uF, 0805, X7R, 50V	133624	
C6309	100uF, EL, 85, 16V, 20%	149948-101C	
C6700	1000pF, 0603, X7R, 50V	191470-102	
C6701	0.39uF, 1206, X7R, 16V	181998-394	
C6702	.047uF, 0603, X7R, 5%, 25V	196999-473	
C6703	.047uF, 0603, X7R, 5%, 25V	196999-473	

Tuner PCB Electrical Part List

Capacitors (continued)

Reference Designator	Description	Part Number	Note
C6750	22pF, 0603, COG, 50V, 5%	188454-220	
C6751	.01uF, 0603, X7R, 50V	191470-103	
C6752	1000pF, 0603, X7R, 50V 220pF, 0603, COG, 50V, 5%	191470-102 188454-221	US EURO
C6753	22pF, 0603, COG, 50V, 5%	188454-220	
C6754	.01uF, 0603, X7R, 50V	191470-103	
C6755	4700pF, 0603, X7R, 50V	191470-472	
C6756	4700pF, 0603, X7R, 50V	191470-472	
C6757	15pF, 0603, COG, 50V, 5% 10pF, 0603, COG, 50V, 5%	188454-150 188454-100	US EURO
C6758	1000pF, 0603, X7R, 50V	191470-102	
C6759	1000pF, 0603, X7R, 50V	191470-102	
C6760	330pF, 0603, COG, 50V, 5% 180PF, 0603, COG, 50V	188454-331 188454-181	US EURO
C6761	.01uF, 0603, X7R, 50V	191470-103	
C6801	.01uF, 0603, X7R, 50V	191470-103	
C7000	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7001	1000pF, 0603, X7R, 50V	191470-102	
C7002	47pF, 0603, COG, 50V, 5%	188454-470	
C7003	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7004	47pF, 0603, COG, 50V, 5%	188454-470	
C7006	.047uF, 0603, X7R, 5%, 25V	196999-473	
C7007	10uF, EL, 85, 16V, 20%	149947-100C	

Diodes

Reference Designator	Description	Part Number	Note
D17	E, SCHOTTKY, 40V, 3A, SMB	193847-001	
D2075	BAV99, E, SOT-23	147239	
D6302	BAV99, E, SOT-23	147239	
D6303	BAV99, E, SOT-23	147239	
D6304	BAV99, E, SOT-23	147239	
D6700	SWITCHING, 75V, 200mA	148582	
D6701	BAV99, E, SOT-23	147239	
D6702	BAV99, E, SOT-23	147239	
D6702-NV	BAV99, E, SOT-23	147239	
DS6800	LED, SMD, GREEN	256781-002	
DS6801	LED, SMD, YELLOW	256781-003	

Transistors

Reference Designator	Description	Part Number	Note
Q2000	2SA1341, P, 50V	146818	
Q2001	BPLR, N, 25V, 30MA, SOT-23	187601-001	
Q2002	JFET, N, 20V, 20mA, TO-92	148590-E	
Q2073	BPLR, N, 40V, 200mA, SOT23	146819	
Q6300	BPLR, N, 50V, 100mA, SOT23	146817	
Q6301	BPLR, N, 50V, 100mA, SOT23	146817	
Q6302	2SA1341, P, 50V	146818	
Q6700	BPLR, N, 50V, 100mA, SOT23	146817	

Tuner PCB Electrical Part List

Transistors (continued)

Reference Designator	Description	Part Number	Note
Q6750	2SA1341, P, 50V	146818	
Q6751	BPLR, N, 30V, 30mA, SOT-23	148781-4	
Q6752	BPLR, N, 50V, 100mA, SOT23	146817	
Q6753	BPLR, P, 40V, 200mA, SOT23	148596	
Q6754	NPN, 1.3W, SOT-223	258416-001	
Q6755	BPLR, N, 50V, 100mA, SOT23	146817	
Q6756	BPLR, N, 50V, 100mA, SOT23	146817	
Q6800	2SA1341, P, 50V	146818	
Q6801	BPLR, N, 50V, 100mA, SOT23	146817	
Q6802	BPLR, N, 50V, 100mA, SOT23	146817	

Integrated Circuits

Reference Designator	Description	Part Number	Note
U17	VOLT REG, 3.3V, 3.5A, SMPS	193846-001	
U18	VREG, POS, ADJ, LDO, DPAK	276753-001	
U19	VOLTREG, SMD, POS, SOT89, +5V	258167-05	
U20	OPAMP, DUAL, SO-8, NJM4556AM	250137	
U2000	AM/FM TUNER, MFP-30S	254561-001	
U2074	PLL FREQ SYNTH, MFP-24	199693	
U6700	LM339, VOLTAGE COMPARATOR	187618-001	
U6701	VOLTREG, SMD, POS, SOT89, +10V	258167-10	
U7000	IC, EEPROM, SO-8, 24C01A	184044	
U7001	MICRO, ST72324, TQFP, 32K, FLSH	NA	

Miscellaneous

Reference Designator	Description	Part Number	Note
CF2000	FILTER, CER, BAND PASS, FGD, 280 KHZ	253037-002	
CF2001	FILTER, CER, BAND PASS, FGD, 220 KHZ	253037-001	
FB1	BEAD, FERRITE, CHIP, 1806	256116-181	3 ⚠
FM-TNR2000	TUNER, FM, US TUNER,FM,7V,EURO	258513-001 258513-003	US EURO
J1	CONN, HEADER, 34P, TOP ENTRY, SMD	253356-T34	
J2	CONN, DC POWER JACK	256763-001	3 ⚠
J2000	CONN, DUAL, 2.0mm OVER 2.5mm	271673-001	
J2001	CONNECTOR, FM, SHIELDED, US CONNECTOR, FM, SHIELDED, EURO	258434-001 258435-001	US EURO
J6300	CONN, SERIAL	178356	
J6800	CONN, SMD, MODULAR, SHIELDED, 8 POS	268879-001	
L1	10uH, SMD, 10mm 4.7UH, SMD, 10mm	266922-100 266922-4R7	US EURO
L17	300uH	180504	
L18	22uH	187598-220 or 309310-220K	
L2	1.0UH, 20%, SMD	173273-1R0	
L2000	1000uH, AX ON ALR, 40A	260363-102	
L6750	SMT, 10uH	178370-100	

Tuner PCB Electrical Part List

Miscellaneous (continued)

Reference Designator	Description	Part Number	Note
L6751	100nH, 0603, 5% 68nH, 0603, 5%	191488-101J 191488-680J	US EURO
L6752	220 nH, 0805, 5% 220nH, 0805, 5%	191469-471J 191469-221J	US EURO
L7000	220 nH, 0805, 5%,	191469-471J	
RR6700	27.145MHZ, RXVR, RF REMOTE 40.685MHZ, RXVR, RF REMOTE	268883-001 268884-001	US EURO
RT1	LIMITER, CURRENT, 2.5A	258500-001	
SHLD-TNR20	SHIELD, FENCE, TUNER	256743	
T1	ETHERNET, XFMR, SMD, 1:2.5	279113-001	
T2000	TUNER, AM, FRONT END	195359	
T2001	FILTER, AM-IF, QUINTIPLE TUNED	254114-001	
T2002	DETECTOR, FM SINGLE TUNED	254564-001	
T2003	FILTER, STEREO MPX, SINGLE TUNED	147236	
T2004	FILTER, STEREO MPX, SINGLE TUNED	147236	
Y6750	CRYSTAL, 27.145MHZ, FUNDAMENTAL XTAL, 40.685MHZ, FUND, HC49U	260353-001 264252-001	US EURO
Y7000	XTAL, 14.4MHZ, 30pF, HC49U, TAPE	267620-001	
-	SHIELD, COVER, TUNER	256744	

Disassembly Procedure

1. Top Cover Removal

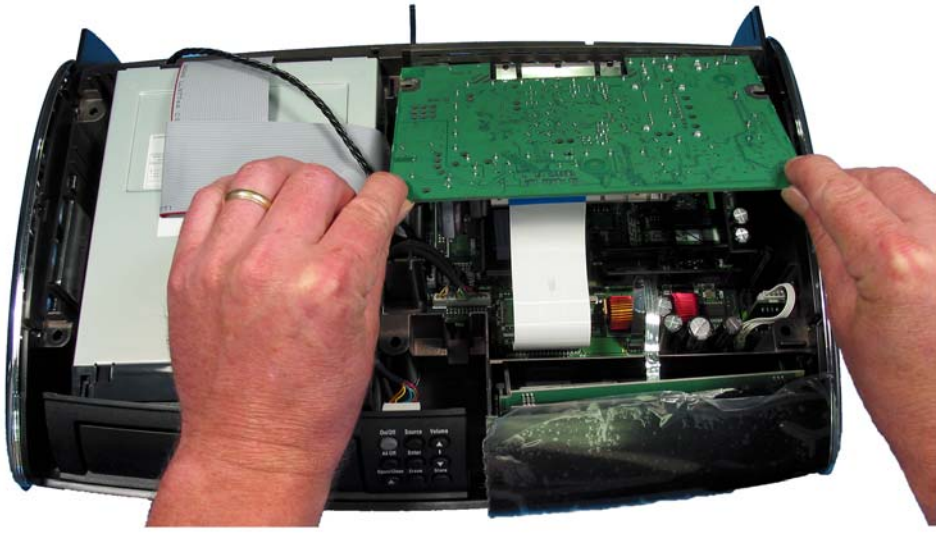
Remove the six screws indicated.

Lift up on rear of the cover. Rotate it slightly forward and pull it off.
Note: Rotating the cover too far forward will break the tabs on the VFD Lens.

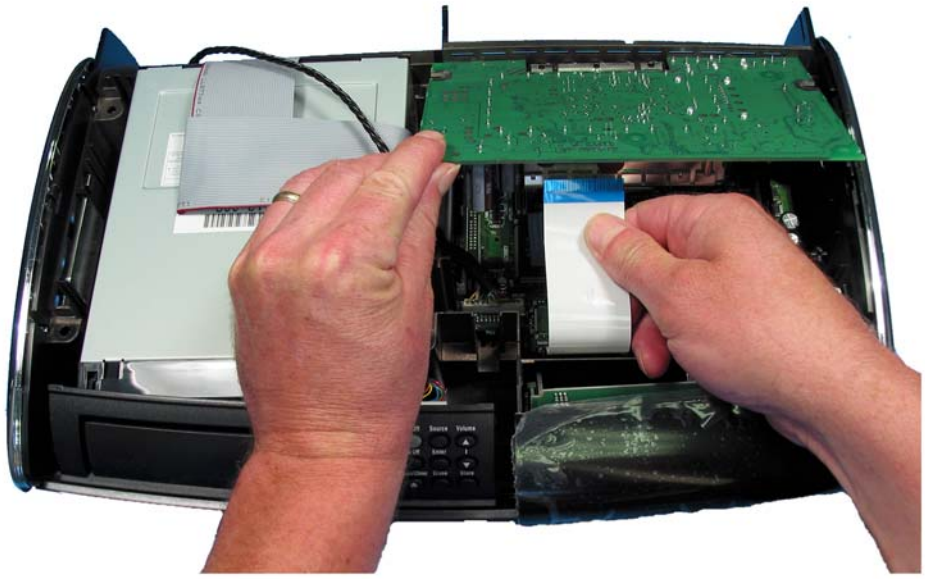
Disassembly Procedures

ESD Sensitive - Refer to page 2

2. Tuner PCB Removal



Lift up the front corners of the tuner PCB.



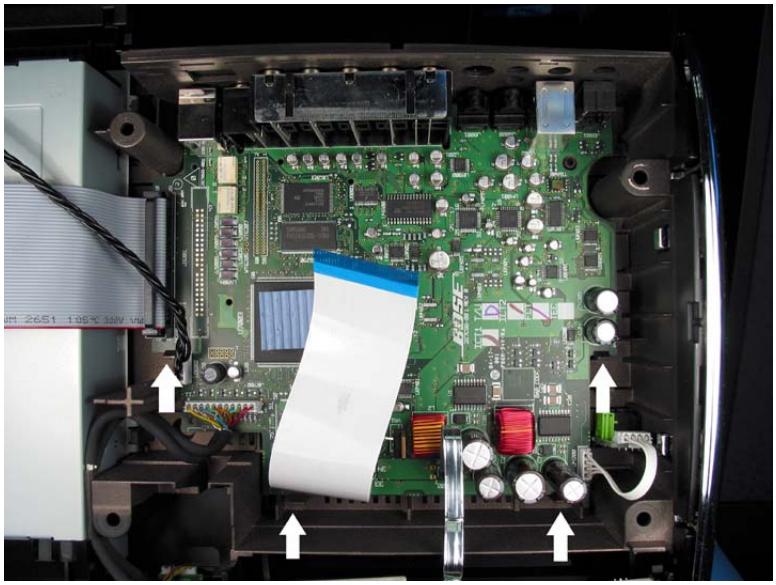
Disconnect the ribbon cable by grasping and gently pulling it off.
Lift out the tuner PCB.

Disassembly Procedures

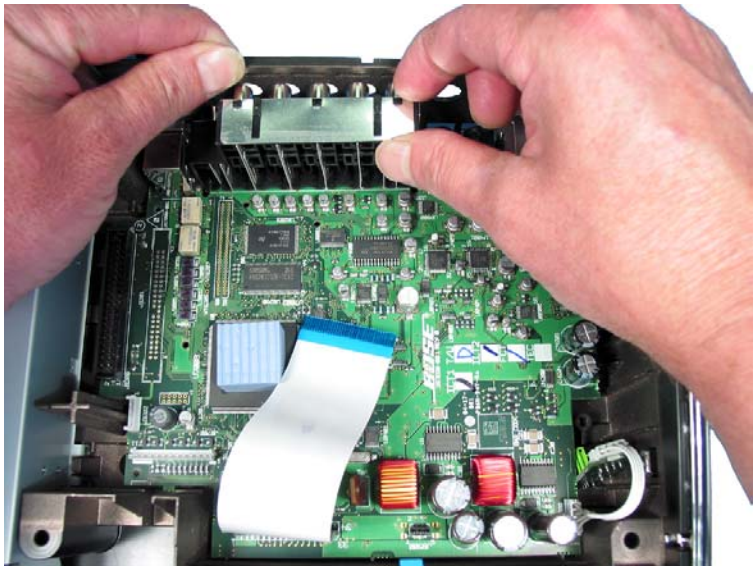
ESD Sensitive - Refer to page 2

3. Main PCB Removal

Lift up the tuner bracket and remove it



While lifting on the front of the Main PCB, release the four catches indicated.



Disconnect the wire connectors from the Main PCB.

With the front of the PCB slightly lifted up, gently push outward on the rear panel so the connectors clear the holes in the rear panel.

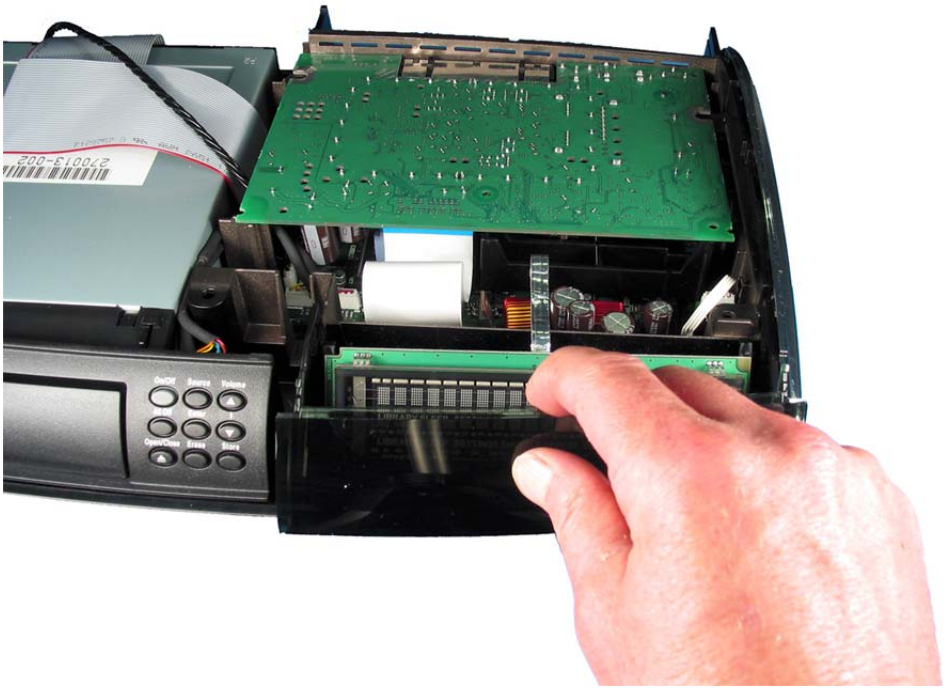
Lift out the Main PCB.

The HeadPhone PCB is held in place by the Main PCB.

Disassembly Procedures

ESD Sensitive - Refer to page 2

4. VFD Removal



Grasp the top edge of the VFD lens and rotate it forward.

Grasp and pull the VFD PCB ribbon cable from connector J6500 on the main PCB.
Gently press on the right tab, indicated above, and lift upward on the right side of the VFD PCB.
Repeat for the left side.
Slide out the VFD PCB from its holder.

Disassembly Procedures

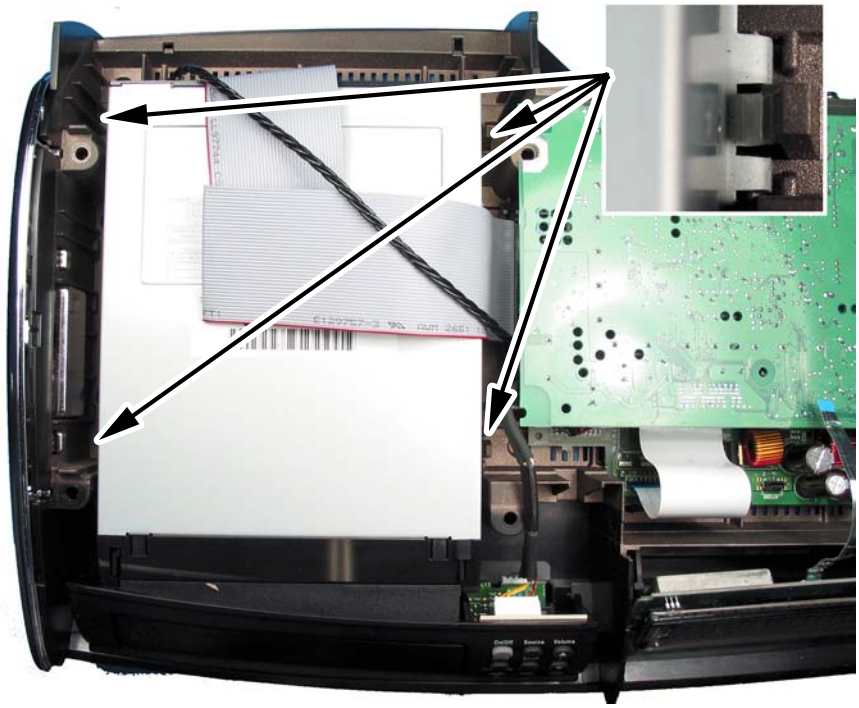
ESD Sensitive - Refer to page 2

5. Keypad Bezel Removal

Lift upward on the keypad bezel. The DVD/CD door will detach from the DVD/CD mechanism. Remove the cable from the keypad PCB.

---

6. DVD/CD Mechanism Removal



Press outward on the tabs indicated to release the DVD mech from the chassis.
Lift out the DVD mech and disconnect the cables.

Disassembly Procedures

ESD Sensitive - Refer to page 2

7. IR PCB Removal

While lifting the edge of the IR PCB, release the clip on the left.

Slide out the IR PCB to the left.

---

8. IR Lens Removal

Press on the tabs indicated to release the IR lens. This procedure does not enable the IR PCB to be removed. To remove the IR PCB, refer to procedure 7.

Disassembly Procedures

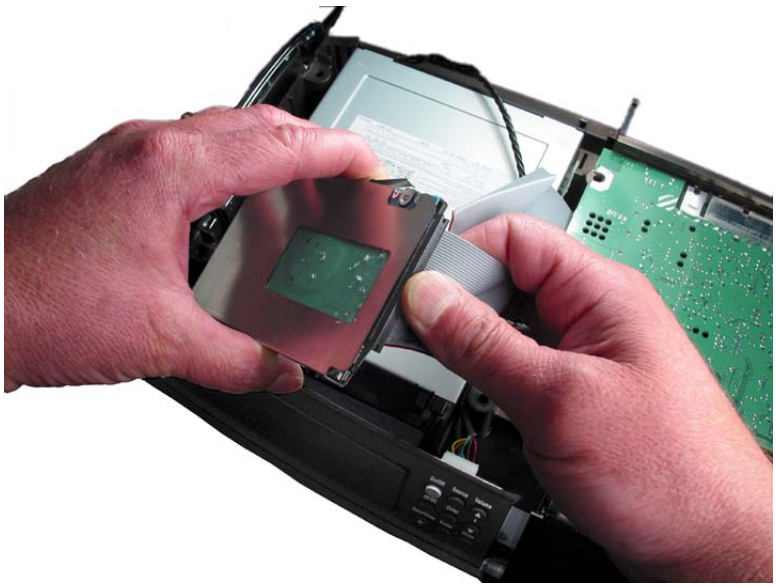
ESD Sensitive - Refer to page 2

9. Hard Drive Removal

Grasp the hard drive as shown and pull it out.
Important! - Use caution when handling the hard drive. Only handle the hard drive by the sides. Do not grasp the hard drive from the label side and PCB side. Damage might occur.

---

10. Hard Drive Ribbon Cable Removal

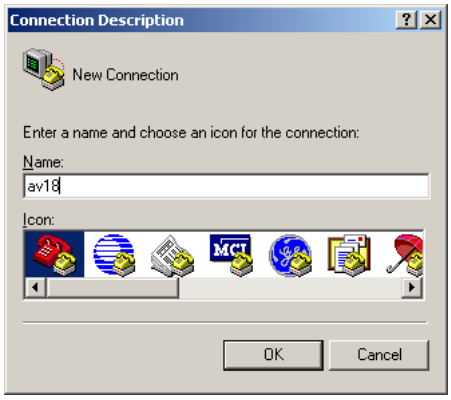


Grasp the hard drive ribbon cable as shown and pull it out.
Important! - Use caution when handling the hard drive. Only handle the hard drive by the sides. Do not grasp the hard drive from the label side and PCB side. Damage might occur. Avoid physical shock to the hard drive. Gently place the hard drive on a soft ESD protective surface.

Setting-up a Computer to Issue TAP Commands - AV38/48

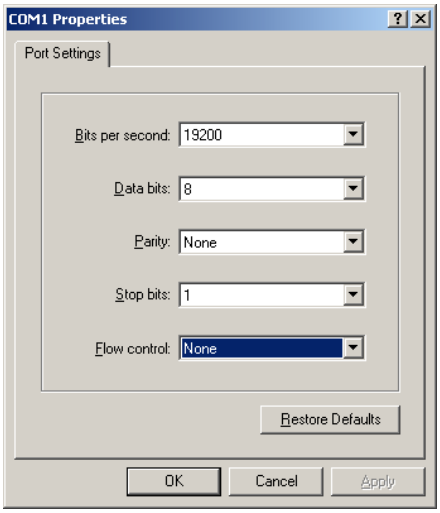
1. Open a terminal window. Click: Start/Program/ Accessories/Hyper terminal/Hyperterminal

2. In the “Connection Description” window, type the name “AV38/48 media center” then click “OK”; any name may be entered.

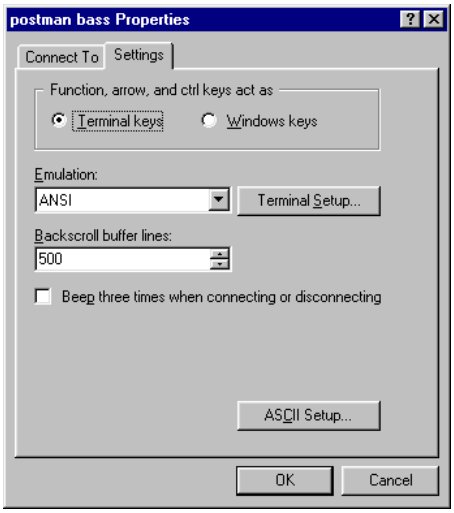


3. In the “Connect To” window, select the COM port on your computer that you will be connecting the AV38/48 media center to and then click OK.

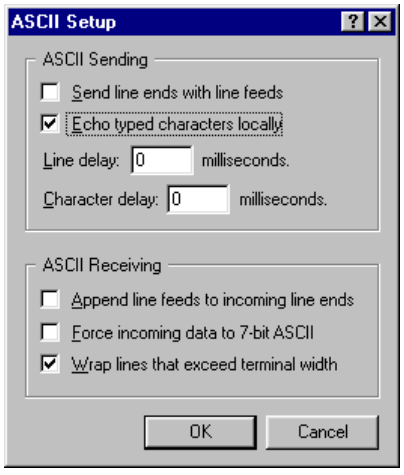
4. In the “COM1 Properties” window, make the selections in the various fields as shown.



5. In the Hyperterminal window, click on File/ Properties. In the Properties window, click on the Settings tab, make the selections in the various fields as shown.



6. In the Settings window, click on ACSII setup and make the selections in the various fields as shown.



Note: Terminal programs other than hyperterminal can be used.

Issuing TAP Commands to the AV38/48 media center

1. TAP Test Cable Connection - Connecting the Media Center to a Computer

1.1 Connect the test cable's, part number 264565, DB-9 connector to the RS-232 COM port on your computer. Connect the test cable's 3.5mm plug to the serial data jack on the AV38/48 media center.

1.2 With a Hyperterminal window open and set up as shown on page 45, apply power to the AV38/48 media center. A prompt (>) will appear in the hyperterminal window.

2. Verify the Media Center Communicates in TAP Mode

2.1 Type the command FT and press <Enter>. The unit should respond by displaying PASS in the hyperterminal window.

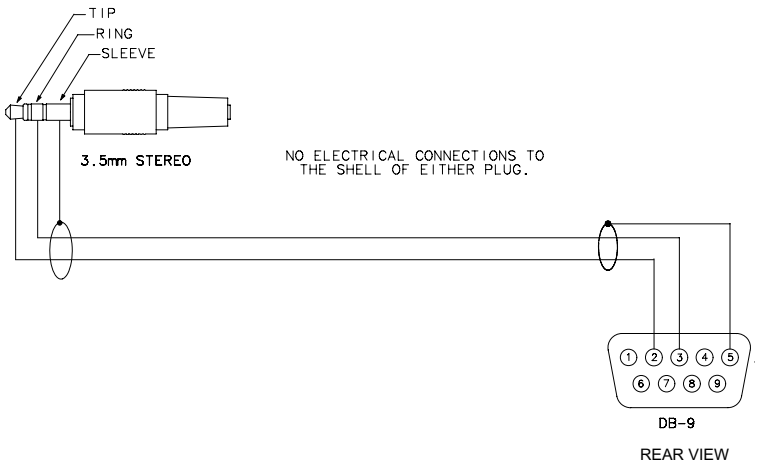


Figure 8. Tap Test Cable Part Number 264565

General TAP Commands

SVM - Main PCB Software - response similar to P2_CON:01.01.01
SVT - Tuner PCB Software - response similar to 01.00.BB
SNM - Main PCB serial number
SNT - Tuner PCB serial number
QD - Drive variant - response similar to 1B10, TOSHIBADVD-ROMSD-M1712
(software rev, TOSHIBADVD-ROMSD-drive type)
QHI - Query Hard Disk Drive Identity
Response:

Description	Similar to
Firmware Revision	1B10
Model Number	TOSHIBAMK4025GAS
TTAG database	?

HS - Hard Disk Drive Self Test - Response “OK” (not results) - will run for 2 minutes
QHC - Query Hard Drive Self Test Results (2nd character will count down to “0” when test is complete”.

XX	Result
00	Test passes.
10	Test failed. Did not complete: aborted by the host.
20	Test failed. Did not complete: interrupted by reset.
30	Test failed. Did not complete: fatal error.
40	Test failed. Test completed with unknown failure.
50	Test failed. Test completed with electrical or write element failure.
60	Test failed. Test completed with servo/seek element failure.
70	Test failed. Test completed with read element failure.
X0	Test failed. Invalid response. (X: not 0-7)

PT25 - Light all VFD segments
PT26 - Return VFD to normal operation
PT23 - IR loopback self-test
FU - Flash Update - writes changes to permanent memory
RC - Sets Region code
with argument, sets region code, reference page 48.
without argument, unit responds with current settings/conditions:

Type Code = v
Vendor Resets = w
User Change = x
Region Mask = y
Playback Control Scheme = z

v = 0: no drive region set
v = 1: drive region set
v = 2: drive region set/with additional restrictions (last chance)
v = 3: drive region has been set permanently
w = count down the number of times available for manufacturer reset of region code
x = count down the number of times available for user/manufacturer reset region code
y = specifies the drive region that the drive is located. Each bit represents one of eight regions.
0xfe: region 1
0xfd: region 2
0xfb: region 3
0xf7: region 4
0xef: region 5
0xdf: region 6
0xbf region 7
0x7f: region 8
z = 0: does not enforce Region Playback Controls (RPC)
z = 1: adheres to this specification and all requirements of the CSS license agreement concerning RPC

Setting the Region Code Only

1. Set up a Hyperterminal window (reference page 45) and connect the media center to a computer to issue TAP commands (reference page 46).

2. With power applied to the media center, insert a DVD disc into the media center. The DVD disc must be of the same region code as the region code you want to change the media center to. Example: To change the media center to region code 2, insert a region code 2 DVD into the media center.

3. Issue the TAP command RC? ("?" is the region code number). The media center will now be able to play DVD discs for the region code you set it for.
The region code can be set 5 times. One setting is used in manufacturing, which leaves 4 more. The fifth region code change will be permanent.

Region Code Table

Region	Region Code
U.S., Canada, U.S. Territories	1
Japan, Egypt, South Africa, Europe, Middle East	2
Korea, Philippines, Indonesia, Hong Kong, Taiwan, Southeast Asia, East Asia	3
Australia, New Zealand, Mexico, Pacific Islands, Central America, South America, Caribbean	4
Russia, India, Africa, D.P.R. of Korea, Mongolia, Former Soviet Union, Eastern Europe	5
China	6
Reserved	7
Special international venues such as airplanes, cruise ships	8

General Test Procedure Notes

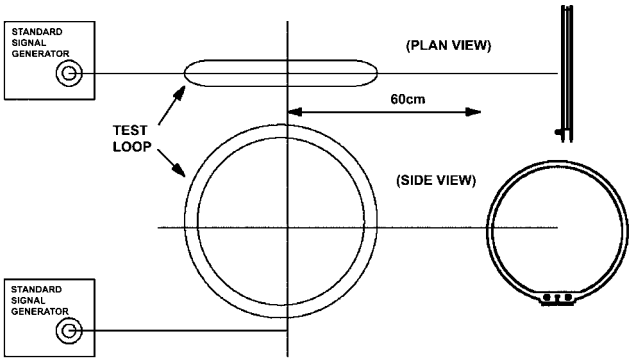
1. After completing any or all adjustment procedures requiring TAP commands, the FLASH memory must be updated to store the adjustments. Refer to the Adjustment/Performance Verification Procedure 12 on page 49.

2. Functional/Performance Verification Tests: Contain tests to verify the performance and function of the AV38/48 media center.
Adjustment/Performance Verification Procedures: Contain procedures to optimize the performance of the AV38/48 media center.

Functional/Performance Verification Tests

AM General Test Setup

Refer to the figure below. The equivalent field intensity is 20 dB less than the generator output level or 1/20th of the output voltage. The signal levels given do not include this factor. Measurements are taken from the record output.



1. AM Sensitivity Performance Verification

1.1 Set the RF generator output for a 53 dBuV field intensity, 30% AM modulation, 400 Hz and the unit and RF generator to 1080 kHz.

1.2 The left record output should measure 70 to 320 mVrms at < 10% THD+N.

2. AM Seek (Stop Level) Performance Verification

2.1 Set the RF generator to 1110 kHz (1107 kHz for Euro and Japan), AM modulation, 400 Hz modulation, 61 dBuV field intensity.

2.2 Place the unit into seek and verify the unit stops at 1110 kHz (1107 kHz for Euro and Japan).

2.3 Switch the RF generator for a 51 dBuV field intensity and verify the radio does not stop at 1110 kHz (1107 kHz for Euro and Japan).

FM General Test Setup

Connect the signal generator to the FM antenna F-connector J2001 using a 50 to 75 Ohm matching network. Adjustments to the procedures stated signal levels should be made to account for a signal level loss due to the matching network and/or any other losses.

3. FM Sensitivity Performance Verification

3.1 Set the RF generator to 98.1 MHz, 1 kHz mono modulation, pilot off, 75 kHz deviation, 26 dBuV at the unit's FM antenna input, J2001.

3.2 Measure the distortion at the left or right record output. It should be < 3.0% THD+N.

4. FM Seek Performance Verification

4.1 Set the RF generator to 98.7 MHz, 1 kHz mono modulation, pilot off, 75 kHz deviation, 41 dBuV, at the unit's FM antenna input, J2001.

4.2 Place the unit into seek and verify that it stops at 98.7 MHz.

4.3 Reduce the RF generator to 31 dBuV.

4.4 Tune the unit to 98.1 MHz and then place the unit into seek. Verify the radio does not stop at 98.7 MHz.

5. Serial Data Verification

5.1 Connect an Oscilloscope to the serial data output connector J6801 pin 2.

5.2 Press volume up or down on the console. Observe a digital waveform on the oscilloscope.

6. TV Sensor Verification

6.1 Apply a signal to the TV Sensor input J6300 pin 2 at the level and frequency listed in the following table. The signal should be applied to the tip of a 3.5mm jack.

6.2 Measure the output of the detector, U6700 pin 14.
Note: Off <.8Vrms, On >2.5Vrms. Settling time is .1 seconds to turn on, 2.0 seconds to turn off.

Input Frequency	Input Amplitude	Detector Output
60 Hz	200 mVrms	<.8 Vrms
15.75 kHz	30 mVrms	>2.5 Vrms
31.5 kHz	30 mVrms	>2.5 Vrms

Functional/Performance Verification Tests

7. Inputs/Outputs Verification

Test	Functional test for the...	Connect the Media Center...	To...	and select the console source...	Listen/look for..
1	Speaker Zones output, TV S-Video, composite video output, and DVD.	Speaker Zones 1, 2 output...	A PS28/48 powered speaker...	DVD (insert a DVD).	a clean undistorted picture from the TV. A clean undistorted audio output from the PS28/48 powered speaker.
		TV S-video output...	a TV S-Video input...		
		TV composite video output...	a TV composite video input...		
2	Analog audio Inputs	TV analog audio input...	an analog source...	TV.	a clean undistorted audio output from the PS28/35 powered speaker connected to the console's Speaker Zones output.
		VCR analog audio input...		VCR.	
		AUX analog audio input...		AUX.	
		Tape analog audio input...		Tape.	
3	Digital (S/PDIF) and optical audio inputs.	TV digital (S/PDIF) audio input...	a digital (S/PDIF) source...	TV.	a clean undistorted audio output from the PS28/48 powered speaker connected to the console's Speaker Zones output.
		VCR digital (S/PDIF) audio input...		VCR.	
		AUX digital (S/PDIF) audio input...		AUX.	
		Tape digital (S/PDIF) audio input...		Tape.	
		Optical input...	the optical output of a source...	TV and assign the optical input to TV.	
4	Record digital (S/PDIF) audio output, Record Optical output, Record analog output and CD.	Record digital (S/PDIF) output...	the digital (S/PDIF) input of a device...	CD. (insert a CD).	a clean undistorted audio output from the source.
		Record optical output...	the optical input of a device...		
		Record analog output...	to the analog input of a device...		
5	S-Video and Composite video input	S-Video input...	to the S-Video output of a source...	VCR.	a clean undist-orted output from the... S-Video output.
		Composite video input...	to the Composite video output of a source...		Compo-site video output

Note: The remote control is needed to turn on the Zone 2 output and should be used to verify the unit's ability to respond to remote commands. Refer to the Bose® Link Room Settings on page 56.

8. CD Performance Test

8.1 The media center should be able to play for 10 seconds the test discs listed in the following table.

Parameter	Nominal	Limit	Suggested Test disc
Defect Tracking (void)	1.0 mm	0.8 mm	Pierre Vernay, test CD#2
Defect Tracking (black dot)	1.0 mm	0.8 mm	ABEX test disc TCD-725R
Defect Tracking (scratch)	1.6 mm	1.0 mm	ABEX test disc TCD-721 R
Defect Tracking (finger print)	75 mm	65 mm	ABEX test disc TCD-725R
Defect Tracking (warped disc)	1.0 mm	0.7 mm	ABEX test disc TCD-732RA
Defect Tracking (eccentric disc)	210 mm	140 mm	ABEX test disc TCD-714R

Functional/Performance Verification Tests

9. Hard Drive Self Test

9.1 Issue the TAP command HS (Hard Disk Self Test). You will receive an “OK” response. The test will run for 2 minutes.

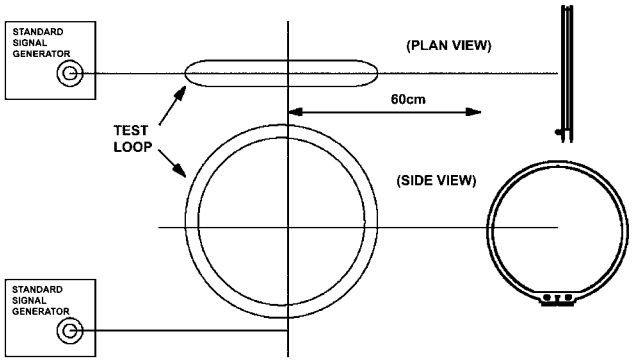
9.2 To retrieve the test results, issue the TAP command QHC (Query Hard Drive Self Test Results). Refer to the table below for a list of responses. The 2nd character will count down to “0”. When the second character is a “0”, the test is complete.

XX	Result
00	Test passes.
10	Test failed. Did not complete: aborted by the host.
20	Test failed. Did not complete: interrupted by reset.
30	Test failed. Did not complete: fatal error.
40	Test failed. Test completed with unknown failure.
50	Test failed. Test completed with electrical or write element failure.
60	Test failed. Test completed with servo/seek element failure.
70	Test failed. Test completed with read element failure.
X0	Test failed. Invalid response. (X: not 0-7)

Adjustment/Performance Verification Procedures

AM Tuner General Test Setup

Refer to the figure below. The equivalent field intensity is 26 dB less than the generator output level or 1/20th of the output voltage. The signal levels given do not include this factor. Measurements are taken from the record output.



TAP Test Cable Connection

Set up a hyperterminal window to issue TAP commands. Refer to page 41. Connect the TAP test cable's, part number 264565, DB-9 connector to the COM port on your computer. Connect the test cable's 3.5mm plug to the serial data jack on the AV38/48 media center. Refer to page 42.

1. AM Sensitivity Performance Verification

1.1 Set the RF generator output for a 53 dBuV/m field intensity, 30% AM modulation, 400Hz and the unit and RF generator to 1080 kHz.

1.2 The left record output should measure 70 to 320mVrms at < 10% THD+N.

2. AM Tuner Adjustment

2.1 Set an RF generator output for a 69 dBuV/m field intensity at the unit's antenna, 30% AM modulation, 1 kHz and the unit and RF generator to 1500 kHz.

2.2 Adjust the red slug of T2000 until a maximum output is measured at the record output.

2.3 Set the RF generator and unit to 600 kHz.

2.4 Adjust the black slug of T2000 until a maximum output is measured at the record output.

2.5 The adjustment of the red and black slug affect each other. Repeat step 2.1-2.4 until the measurement at the record output is optimized for both adjustments.

3. AM Stop Level Adjustment, TAP

3.1 Set the RF generator to 1080 kHz, 30% AM modulation, 1 kHz modulation, 57 dBuV/m field intensity at the unit's antenna.

3.2 Issue the TAP command T2.

3.3 Set the generator to 1110 kHz , 61 dBuV/m field intensity.

3.4 Place the unit into seek and verify the unit stops at 1110 kHz.

3.5 Switch the RF generator for a 51 dBuV/m field intensity and verify the radio does not stop at 1110 kHz.

Adjustment/Performance Verification Procedures

FM Tuner General Test Setup

Connect the signal generator to the FM antenna jack J2001 using a 50 to 75 Ohm matching network. Adjustments to the procedure's stated signal levels should be made to account for a signal level loss due to the matching network and/or any other losses.

4. FM IF Offset Adjustment, TAP

4.1 Issue the TAP command TF.

4.2 Set the RF generator to 98.1 MHz, no modulation, 56 dBuV, at the unit's FM antenna input, J2001.

4.3 Issue TAP command T7 (T8 for Japan). The unit will reply with the IF offset (-1, 0, 1) representing IF offset of (-25, 0, 25) kHz.

5. FM Distortion Adjustment

5.1 Set the RF generator to 98.1 MHz, 1 kHz mono modulation, pilot off, 75 kHz deviation, 71 dBuV at the unit's FM antenna input, J2001.

5.2 Adjust the unit to 98.1 MHz.

5.3 Measure the signal distortion and level at the record output. The output signal should measure <.6% THD+N and at a level between 475-1050 mVrms.

5.4 If the distortion is >.6%, adjust T2002 for minimum distortion. Verify the signal level is between 475-1050 mVrms and the distortion is <.6%.

6. FM Signal to Noise

6.1 Set the RF generator to 98.1 MHz, 1 kHz mono modulation, pilot off, 75 kHz deviation, 71 dBuV at the unit's FM antenna input, J2001.

6.2 Adjust the unit to 98.1 MHz.

6.3 Reference a dB meter to the left record output.

6.4 Turn off the modulation and pilot. The left record output should measure < -55dB.

7. FM Sensitivity Verification

7.1 Set the RF generator to 98.1 MHz, 1 kHz mono modulation, pilot off, 75 kHz deviation, 26 dBuV at the unit's FM antenna input, J2001.

7.2 Measure the distortion at the left or right record output. It should be < 3.0% THD+N.

8. Stereo Separation Verification

8.1 Set the RF generator to 98.1 MHz, 1 kHz left only modulation, 10% pilot, 75 kHz total deviation, 71 dBuV at the unit's FM antenna input, J2001.

8.2 Reference a dB meter to the left record output.

8.3 Switch the RF generator to right only modulation.

8.4 Measure the left record output. It should be < -25 dB, referenced to the measurement taken in procedure 8.2.

9. FM Stop Level Adjustment, TAP

9.1 Set the RF generator to 98.1 MHz, 1 kHz mono modulation, pilot off, 75 kHz deviation, 36 dBuV, at the unit's FM antenna input, J2001.

9.2 Issue the TAP command T3 (T4 for Japan).

9.3 Switch the RF generator to 98.7 MHz, 41 dBuV at the units FM antenna input, J2001.

9.4 Place the unit into seek and verify that it stops at 98.7 MHz.

9.5 Reduce the RF generator to 31 dBuV at the units FM antenna input, J2001.

9.6 Place the unit into seek. Verify the radio does not stop at 98.7 MHz.

Adjustment/Performance Verification Procedures

10. FM Stereo Threshold Adjustment, TAP

10.1 Issue the TAP command TF.

10.2 Set the RF generator to 98.1 MHz, 1 kHz stereo L= -R modulation, 10% pilot, 75 kHz deviation, 46 dBuV, at the unit's FM antenna input, J2001.

10.3 Issue the TAP command T5.

10.4 Increase the RF generator output to 51 dBuV. Verify there is a 1 kHz signal at the left record output.

10.5 Decrease the RF generator level to 41 dBuV. Verify there is no signal at the left record output.

11. TV ON Detector Verification

11.1 Apply a signal to the TV Sensor input J6300 pin 2 at the level and frequency listed in the following table.
Note: The signal should be applied to the tip of a 3.5 mm jack.

11.2 Measure the output of the detector, U303 pin 8, at J6700 pin 14.
Note: Off <.8Vrms, On >2.5Vrms. Settling time is .1 seconds to turn on, 2.0 seconds to turn off.

12. Flash Update

12.1 After performing all adjustments, write the new settings to permanent memory by Issuing the TAP command FU (Flash Update). Do not remove power until the unit responds with "Done writing to FLASH".

13. Hard Drive Self Test

13.1 Issue the TAP command HS (Hard Disk Self Test). You will receive an "OK" response. The test will run for 2 minutes.

13.2 To retrieve the test results, issue the TAP command QHC (Query Hard Drive Self Test Results). Refer to the table below for a list of responses. The 2nd character will count down to "0". When the second character is a "0", the test is complete.

xx	Results
00	Test passes
20	Test Failed. Did not complete: aborted by the host
30	Test Failed. Did not complete: interrupted by reset.
40	Test Failed. Did not complete: fatal error.
50	Test Failed. Test completed with unknown failure.
60	Test Failed. Test completed with electrical or write element failure.
70	Test Failed. Test completed with servo/seek element failure.
X0	Test Failed. Invalid response. (X not 0-7)

Console Key Special Functions

Press and hold the Enter button. The house code will be displayed. Press the Store key to cycle through the various displays. Use the Volume Up and Down buttons to change the settings.

Press Store X Times	VFD Display	Pressing the Volume Up or Down Button Changes
One	TV Power	
Two	Video	NTSC COMPOSITE + S NTSC COMPONENT NTSC PROGRESSIVE PAL COMPONENT PAL COMPOSITE + S
Three	Console Software	
Four	Console Variant	See table on next page
Five	Bass Box Software	
Six	Tuner Software	
Seven	Console Serial Number	
Eight	Main Board Serial Number	
Nine	Tuner Serial Number	
Ten	DVD Region Code	
Eleven	DVD Software and Drive Model	
Tweleve	Main PCB Functional Test Results	
Thirteen	Tuner PCB Alignment	
Fourteen	IR Blaster Code Version	

Useful Settings - house code, Bose® Link, and parental control

Located in the remote control battery compartment are miniature switches used to set the house code and Bose link operation.

House code:
Switches 1-4 are for setting the house code. This is used if there is another console in close vicinity. The console needs to match the switch settings on the remote. To do this, press and hold the Store button on the console and then press any button on the remote. Release the hold button and the console is now programed to match the remote house code setting.

Bose Link Remote Setting:
Switches 5-9 are for setting Bose Link (multiple room installations). If switch 5 is down, the Bose Link room will always play what is playing in the Main room. If switch 5 is up, the user can select the source for the Bose Link room. Switches 6-9 set the room code. Refer to page 51.

Parental control - replace a forgotten password:
With the console connected to a TV and both turned on, press the System button on the remote. Using the right arrow button on the remote, move to the “lock” symbol. Use the down arrow button to navigate to Create/Change Password. Enter the numbers 2673 for the password. Notify the customer they will need to reset the parental control password.

Bose® Link Room Settings

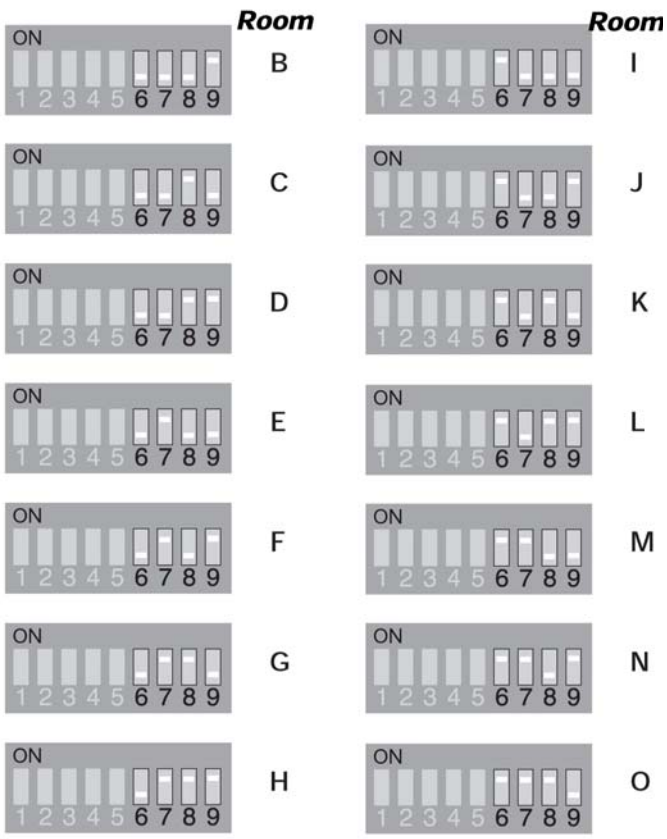
Bose® link remote switch settings

These settings are for use only with remote controls that have switches inside the battery compartment.*

Make sure the house code switches (1, 2, 3, and 4) match those on your main remote.

For switch 5, determine if you want the room grouped with the main room (A), so it receives the same program heard there.

- If you do not change switch 5, the room will receive the same program stream as is heard in the main room (A).
- If you set switch 5 up (▯), the room will receive a different stream than the main room (A).



*For Bose® link remotes that do not have switches 5-9 in the battery compartment, room settings are made in the Settings menu on the remote display screen.

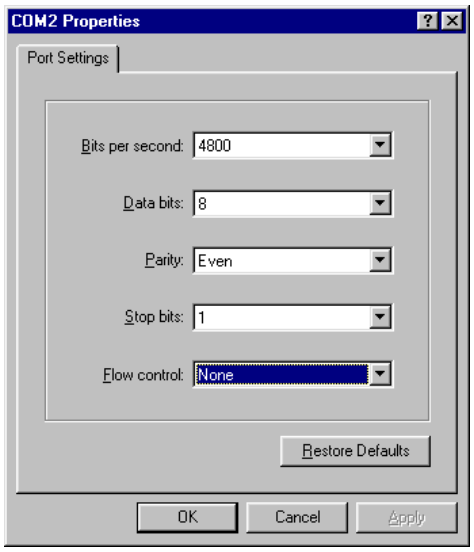
Bass Module
Setting up a Computer to Issue TAP Commands

1. Open a terminal window. Click: Start/Program/Accessories/Hyperterminal/Hyperterminal.

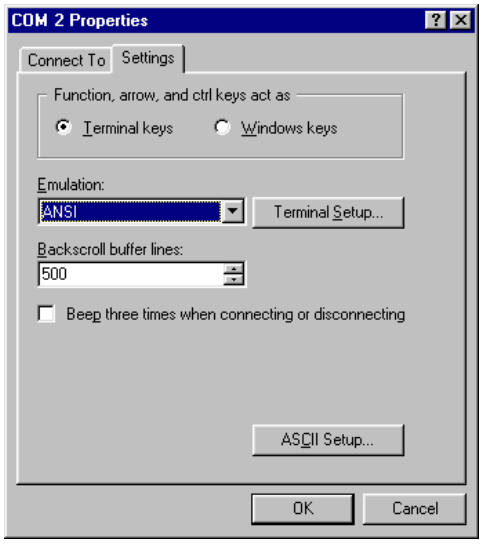
2. In the “Connection Description” window, type the name “LS bass module” then click “OK”; any name may be entered.

3. In the “Connect To” window, select the COM port on your computer that you will be connecting the bass module to and then click OK.

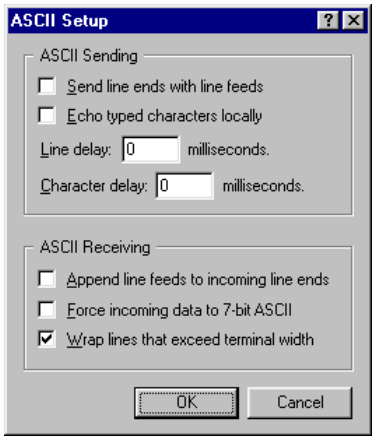
4. In the “COM1 Properties” window, make the selections in the various fields as shown.



5. In the Hyperterminal window, click on File/Properties. In the Properties window, click on the Settings tab, make the selections in the various fields as shown.



6. In the Settings window, click on ACSII setup and make the selections in the various fields as shown.



Placing the Bass Module into TAP Mode

! Place all four DIP switches to the down position before returning the unit to the customer !

1. Place the bass module into TAP mode

1.1 Set all four DIP switches into the “up” position. Apply power to the bass module using the AC line switch and wait until the amber LED blinks twice and the green LED blinks briefly at least once (approximately 3 seconds after power up). Then, within twenty seconds, flip ALL four switches down, then flip switch #4 (closest to the RJ-45 connector) back up. The unit will now communicate in TAP mode. The amber and green LED will blink alternately when no S/PDIF signal is applied. Note that when TAP mode is activated in this manner, the DSP will echo characters sent by the terminal.

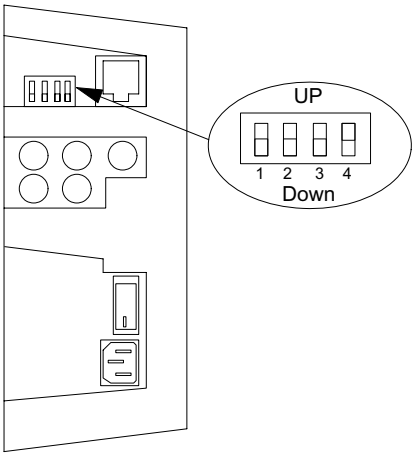


Figure 9. DIP switch Up/Down Orientation

2. Verify the bass module communicates in TAP mode.

2.1 Connect the test cable’s, part number 264564, DB-9 connector to the RS-232 COM port on your computer. Connect the test cable’s RJ-45 connector to the bass module.

2.2 Type the command ST S and press <Enter>. The following response should be seen on your computer screen. The results may differ depending on the unit settings. If no S/PDIF signal is applied, the sample rate will be 29 kHz.

```
SAMPLE RATE : 44101.30
SPKR TYPE   : 02
DIP VALUE   : 1111
LCRB_MUTE   : 1
LSRS_MUTE   : 1
SAT_CLIP    : 1
BASS_CLIP   : 1
EURO_BASS   : 1
EURO_TREBLE : 0
```

2.3 Check the software by typing (issuing) the command TN 4 and then hitting “Enter”. A typical response would be as follows.
03DE6455, 010808
03DE6455 is the checksum
010808 is the software version

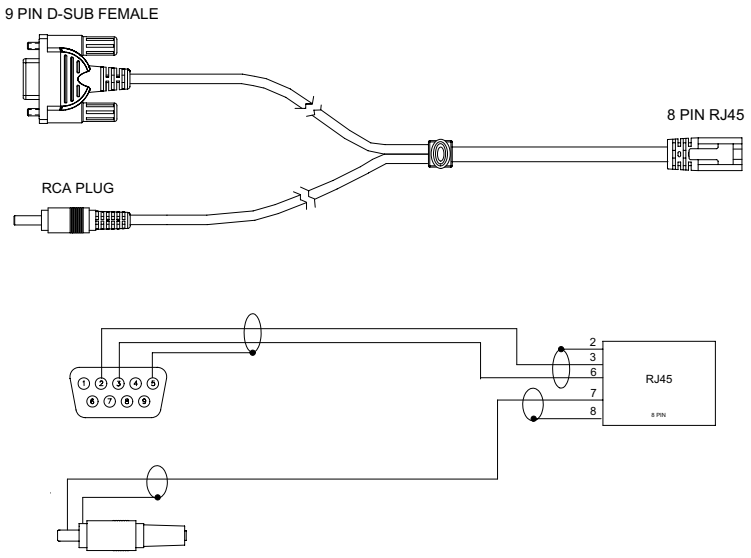


Figure 10. Bass Module Test Cable Part Number 264564

Setting the Bass Module Equalizer

Set up a Hyperterminal window (reference page 57) and connect the bass module to a computer to issue TAP commands (reference page 58).

Type the equalization TAP command as listed in the table below.

Example: To set the bass module to LS18 series II equalization, type the TAP command SE A,ON,OFF,ON,P,2. To check the equalization setting, type the TAP command ST. The response on the hyperterminal window should be:
SPKR TYPE 128
ANTIBOTTOMING POSTKNOX
VOLUME TAPER POSTMAN2

EQ	TAP Command (to set EQ)	ST TAP Command Response (to check status of settings)		
		Speaker Type	AntiBottoming Filter	Volume Taper
LS18 series I	SE A,ON,OFF,ON,C,1	128	Cheapshot	Postman 1
LS28 series I	SE D,ON,OFF,ON,C,1	01	Cheapshot	Postman 1
LS35	SE C,ON,OFF,ON,C,1	02	Cheapshot	Postman 1
LS18 series II	SE A,ON,OFF,ON,P,2	128	PostKnox	Postman 2
LS28 series II	SE D,ON,OFF,ON,P,2	01	PostKnox	Postman 2
LS38	SE D,ON,OFF,ON,P,2	01	PostKnox	Postman 2
LS48	SE C,ON,OFF,ON,P,2	02	PostKnox	Postman 2

Note: The TAP commands listed in this table are for series II bass module part number 277095-XXX and series II amp modules part number 277096-XXXF containing software version 040506 or later.

BOSE®
Better sound through research®

Lifestyle® AV38/48 Media Center

©2008 Bose Corporation

Service Manual
271000AV38-SM REV06
Electronic copy only

Revision History

REV	ECN	Description
REV00 - REV01	36455	SW changes to SLABs/HDD/Mec
REV01 - REV02	36915	Part changes increase IR sensitivity
REV03 - REV04		New remotes, console, PCBs, and lit (extensions)
REV04 -REV05		Numerous part changes - PCBS, DVD mech, HDD
REV05 - REV06	43202	New floor warts

Specifications and Features Subject to Change Without Notice

BOSE®
Better sound through research®

Bose Corporation
The Mountain
Framingham Massachusetts USA 01701
P/N 271000AV38-SM REV. 06 05/08 (H)
http://serviceops.bose.com