



Service Manual

PRX835

15" Three-Way Full-Range Main System with Wi-Fi





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PRX835

15" Three-Way Powered Loudspeaker



HIGHLIGHTS ■

Wi-Fi Control

Wirelessly set up, tune, and run your system via the free PRX Connect app, available for Android and iOS

1500-Watts of Power

Class D power meets JBL's patented Differential Drive technology for maximum efficiency.

Roadworthy

Stronger build quality, Duraflex finish, and proven mechanical design

The PRX835 three-way portable PA speaker with a 15" woofer and 6.5" midrange driver is a member of the most advanced loudspeaker family in its class. Wi-Fi technology and sophisticated DSP give you complete control over the tuning and performance of your system—from anywhere in the venue—via the free PRX Connect app. An efficient 1500-watt class-D amplifier and patented JBL Differential Drive technology provide best-in-class power handling while greatly reducing system weight. And the rugged all-wood cabinets feature a redesigned input panel and universal power supply for easy, reliable operation at gigs worldwide. Thoughtfully designed from the ground up to deliver legendary JBL sound, PRX800 represents the next generation in smart live sound reinforcement.

KEY MESSAGES ■

WI-FI CONTROL

PRX800 Series is the first PA system in its class to feature complete wireless control via Wi-Fi, giving you a powerful new way to set up, configure and optimize the performance of your live sound system. With a free custom-designed app, you can set up and run your system in any room with ease. Whether you're working in a difficult acoustic environment or making sure you have the headroom to drive your band harder, you have the tools at your fingertips to make your system sound perfect every single time.

1500 WATTS OF POWER

With integrated 1500-watt Class-D power amplifiers, PRX800 is the most powerful, efficient system in its class. Patented JBL Differential Drive™ woofer technology reduces magnet mass while increasing power handling. Both of these features work together to make PRX800 a remarkably lightweight system capable of delivering clear, pristine audio at extraordinarily high volumes.

ROADWORTHY AND TOUR TESTED

We designed each aspect of the PRX800 series to perform flawlessly—even on the toughest tours. PRX800 speakers utilize the finest construction materials available, including durable wooden cabinets, tour-proven DuraFlex™ finish, and dent-resistant 16-gauge grilles. And comprehensive mechanical, electronic, and acoustic testing—including JBL's famous 100-hour power test—ensures reliability in any real-world environment.

IN THE BOX ■

PRX835
IEC Cable
User's Guide

PRX835

15" Three-Way Powered Loudspeaker



APPLICATIONS ■

APPLICATION EXAMPLE 1

Bands, DJs, and other performers who need a powerful, accurate, versatile PA system.

APPLICATION EXAMPLE 2

Permanent PA in small clubs, bars, and other performance venues.

APPLICATION EXAMPLE 3

Permanent PA for houses of worship and schools.

FEATURES ■

- Built in Wi-Fi for wireless control of your system from anywhere in the venue
- Free PRX Connect mobile app provides wireless control over levels, parametric EQ, user presets, and up to 50ms of user delay to fine-tune your sound
- Class-leading 1500-watt amplifier delivers ample power to fill your venue
- JBL Differential Drive® transducers for higher SPL in a lightweight design
- Next-generation JBL neodymium compression drivers
- Crown-designed input panel with XLR, 1/4", and RCA inputs, plus XLR loop-through
- Durable construction with wooden cabinets, tour-proven DuraFlex™ finish, and dent-resistant cloth-backed 16-gauge grilles
- Universal power supply for worldwide compatibility
- Demanding 100-hour test regimen ensures reliable performance
- Intelligent variable-speed fan activates only when needed to reduce noise
- Scalable system that integrates with other JBL portable powered PAs

TECHNICAL SPECIFICATIONS ■

SYSTEM TYPE:	Self Powered 15", three-way, bass-reflex
MAXIMUM SPL OUTPUT:	138 dB peak
FREQUENCY RANGE (-10 dB):	Normal: 35 Hz – 20 kHz Boost: 34 Hz – 20 kHz
FREQUENCY RESPONSE (±3 dB):	Normal: 42 Hz – 20 kHz Boost: 39 Hz – 20 kHz
POWER RATING:	1500W (750W x 2)
INPUT IMPEDANCE:	20K Ohms (balanced), 10K Ohms (unbalanced)
COVERAGE PATTERN:	90° x 50° nominal
NET WEIGHT:	32.38 kg (71.4 lb)
DIMENSIONS (H X W X D):	938 mm x 446 mm x 539 mm (36.9 in x 17.5 in x 21.2 in)

ORDER SPECIFICATIONS ■

BOX DIMS (L X W X H):	21.6 in x 25.4 in x 39 in
SHIPPING WEIGHT:	85.8 lbs
COUNTRY OF ORIGIN:	MX

UPC CODE: 691991005428



JBL Professional 8500 Balboa Blvd. Northridge, CA 91329 USA

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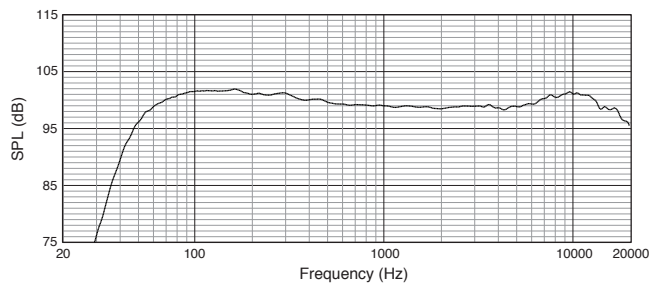
PRX835

15" Three-Way Powered Loudspeaker

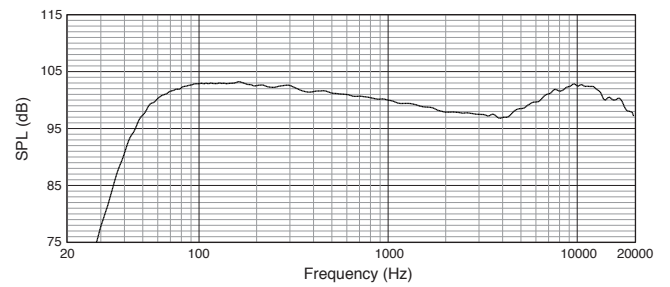


FREQUENCY RESPONSE ■

FREQUENCY RESPONSE (NORMAL)



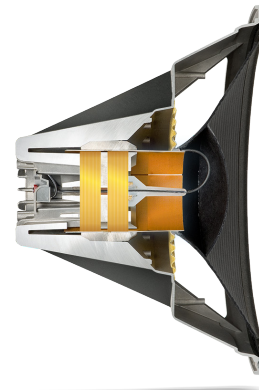
FREQUENCY RESPONSE (BOOST)



PRX CONNECT APP ■



DIFFERENTIAL DRIVE ■

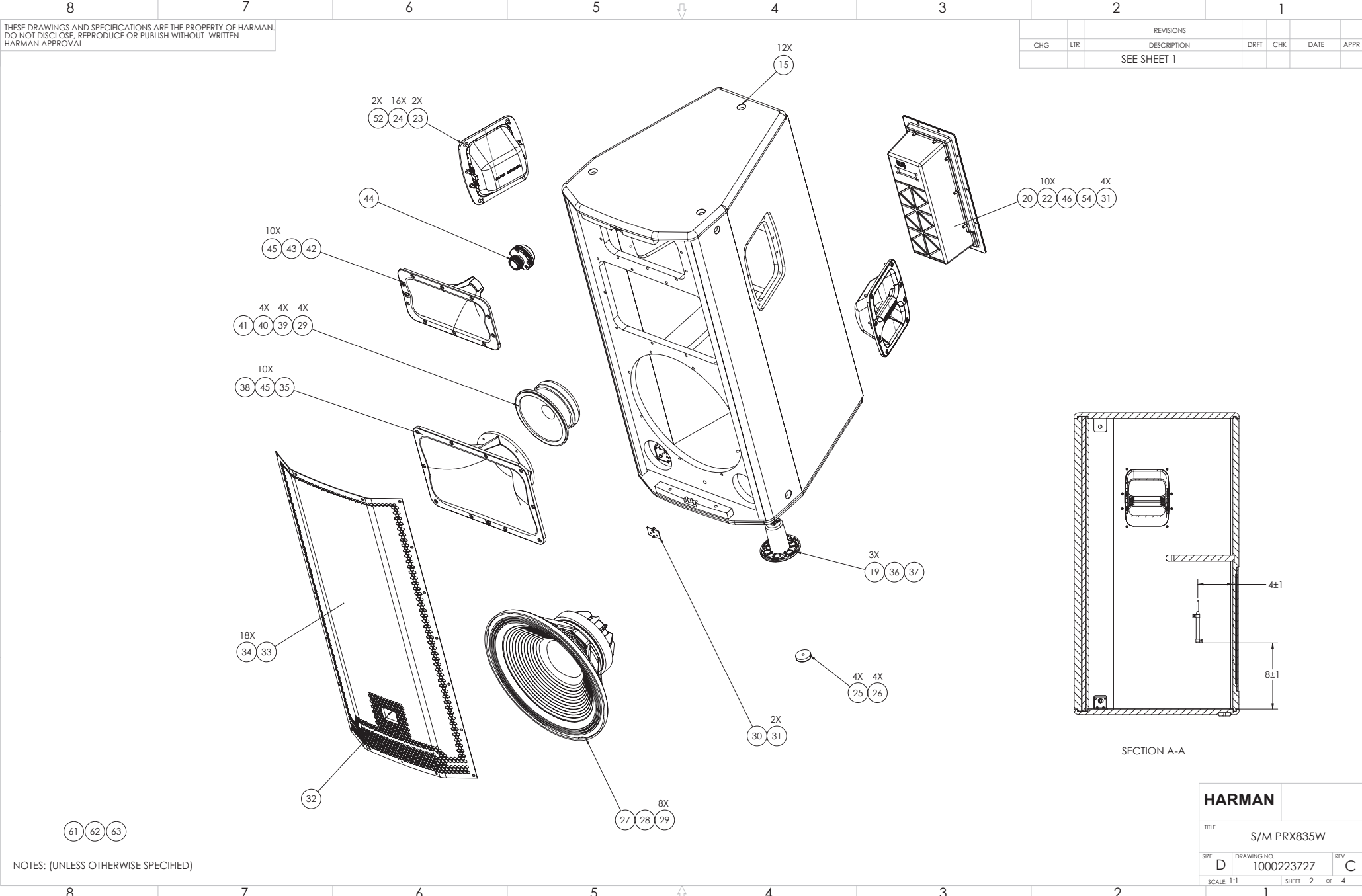


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Exploded View Diagrams



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		REVISIONS					
CHG	LTR	DESCRIPTION	DRFT	CHK	DATE	APPR	
		SEE SHEET 1					

NOTES: (UNLESS OTHERWISE SPECIFIED)

HARMAN		
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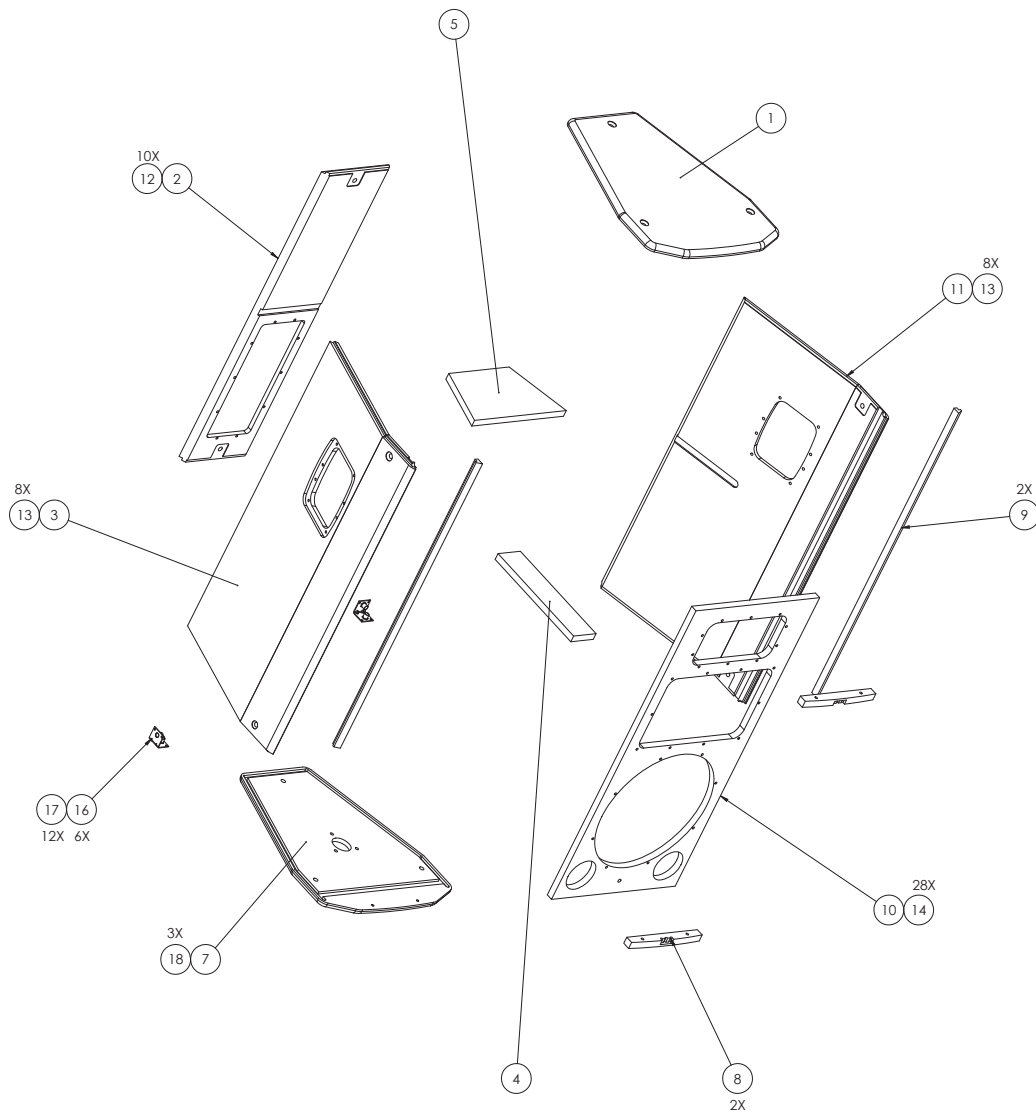
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				DESCRIPTION						
				SEE SHEET 1						



- 53
- 59
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- 67

NOTES: (UNLESS OTHERWISE SPECIFIED)

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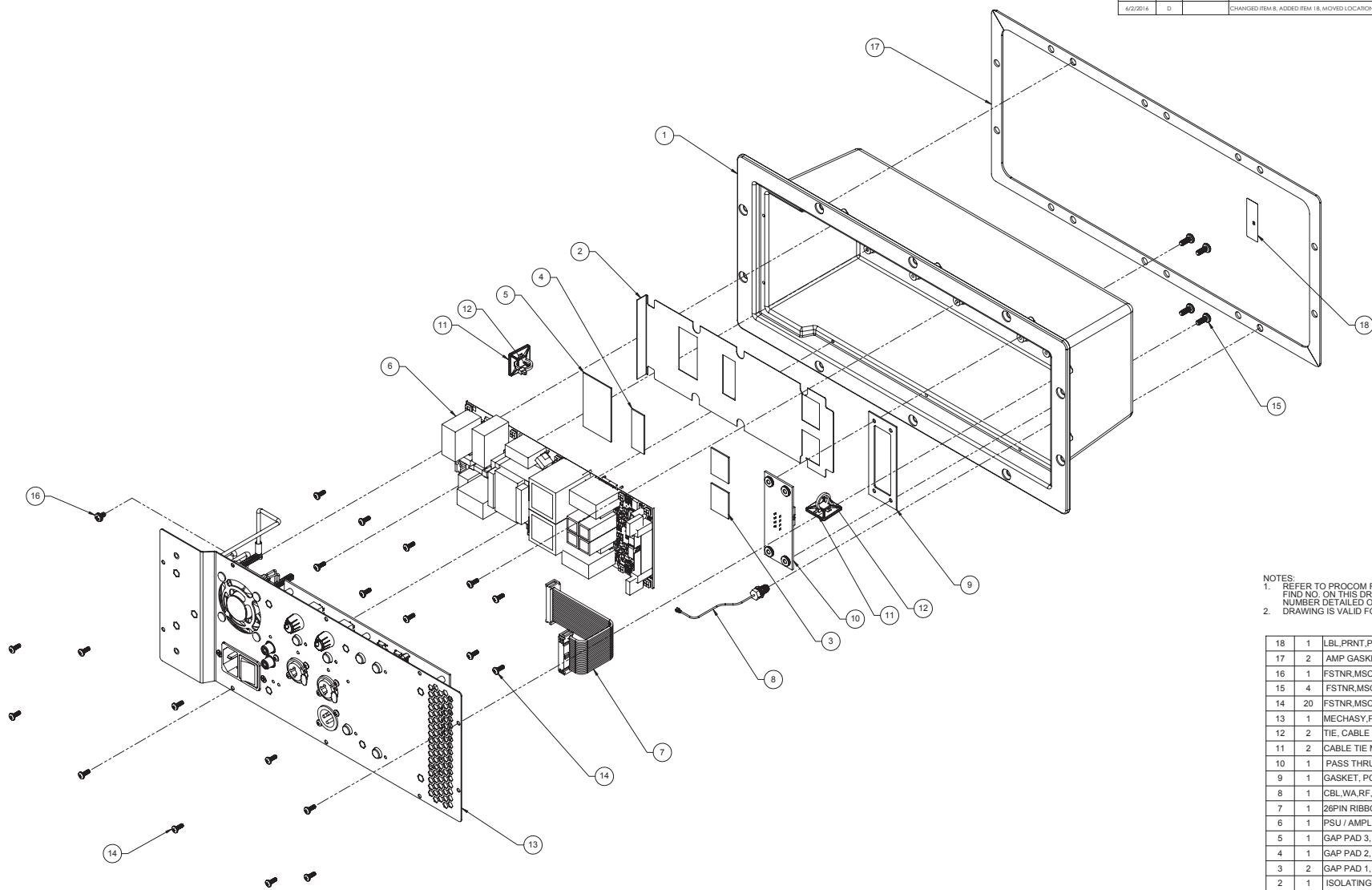
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1

REVISION HISTORY					
DATE	REV.	PREVIOUS PART NO.	DESCRIPTION	ZONE	BY
12/11/2013	A		INITIAL RELEASE		RWS
2/24/2014	B		F1 CHANGES		RWS
3/17/2014	C		ADDED 4-32 SEMS, CABLE TIE, CABLE TIE MOUNT.		RWS
4/2/2014	D		CHANGED ITEM 8, ADDED ITEM 18, MOVED LOCATION OF ITEM 11		RWS

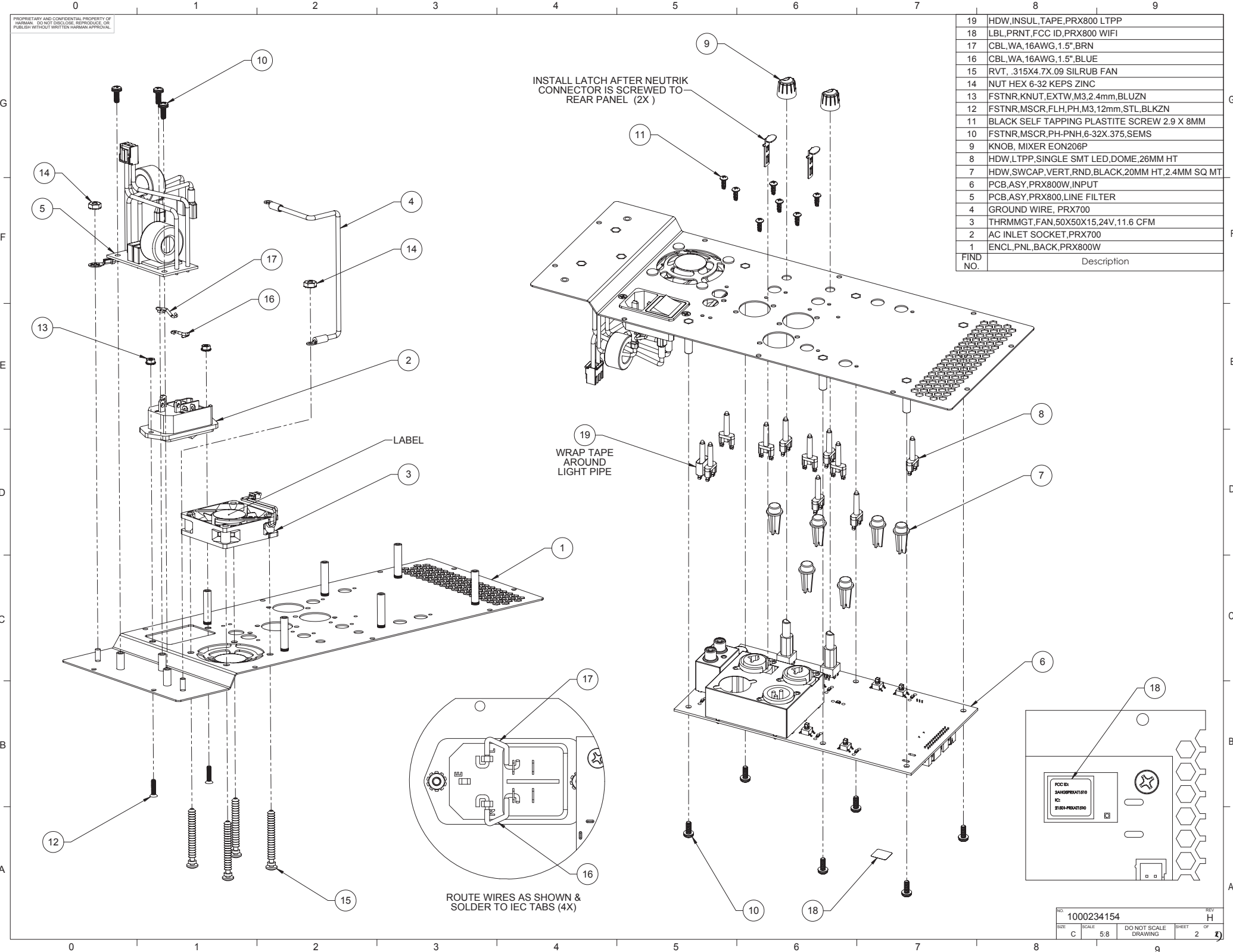


NOTES:
1. REFER TO PROCOM FOR COMPONENT PART NUMBERS.
FIND NO. ON THIS DRAWING CORRESPONDS TO THE FIND NUMBER DETAILED ON THE PROCOM BILL OF MATERIALS.
2. DRAWING IS VALID FOR 5069108, 50669109, & 5071129.

18	1	LBL_PRNT_PRX800_SIN
17	2	AMP GASKET, PRX700
16	1	FSTNR,MSCR,PH-PNH,6-32x1/4,EX SEMS,Zn
15	4	FSTNR,MSCR,PH-PNH,M4,SPR,WSHR,10mm,BLUZn
14	20	FSTNR,MSCR,PH-PNH,M3,8mm,BLKZn
13	1	MECHASY_PRX800W_REAR_PNL
12	2	TIE, CABLE 5.5" OR MORE 18 LB
11	2	CABLE TIE MNT W/ADHESIVE BL 0.75" SQ BIN
10	1	PASS THRU PCB ASSEMBLY- 2 WAY, PRX700
9	1	GASKET, PCB PASS THROUGH
8	1	CBL_WA,RF,PAS,200mm,50ohm,RP-SMA,MHF
7	1	26PIN RIBBON CABLE, PRX700
6	1	PSU / AMPLIFIER BOARD ASSEMBLY, PRX700
5	1	GAP PAD 3, PRX700
4	1	GAP PAD 2, PRX700
3	2	GAP PAD 1, PRX700
2	1	ISOLATING SHEET, PRX700
1	1	ENCL_CHAS,PRX800W_EM

<p>ROHS</p> <p>RESTRICTION OF HAZARDOUS SUBSTANCES</p> <p>ALL HARMAN ELECTRONIC DEVICES SHALL BE COMPLIANT WITH THE PROHIBITED SUBSTANCE LISTED IN THE TABLE BELOW.</p>	<p>TOLERANCES UNLESS OTHERWISE SPECIFIED:</p> <p>All Dimensions in mm</p> <p>Angled 4:1</p> <p>ALL DIMENSIONS ARE DIMENSIONS UNLESS OTHERWISE SPECIFIED BY THIS PANEL.</p>	<p>THIRD ANGLE PROJECTION</p> <p>DATE: 12/11/2015</p> <p>DESIGNED BY: RWS</p> <p>DESIGNED BY: RWS</p> <p>DATE: 8/2/2015</p> <p>REVISED BY: RWS</p>	<p>HARMAN</p> <p>MECHASY_PRX800W_AMP</p> <p>1000235451</p> <p>SCALE: 5/8</p> <p>DO NOT SCALE DRAWING</p> <p>1 2</p>
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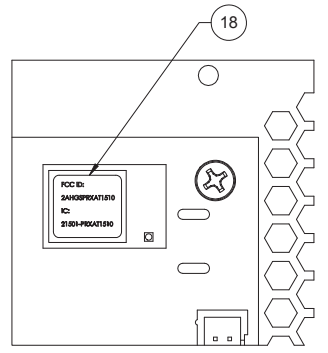


INSTALL LATCH AFTER NEUTRIK CONNECTOR IS SCREWED TO REAR PANEL (2X)

WRAP TAPE AROUND LIGHT PIPE

ROUTE WIRES AS SHOWN & SOLDER TO IEC TABS (4X)

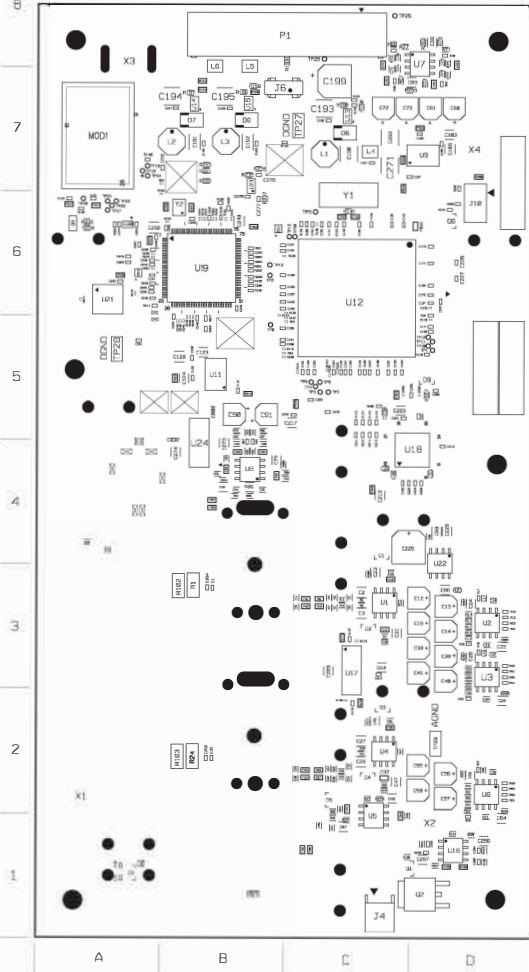
FIND NO.	Description
19	HDW,INSUL,TAPE,PRX800 LTPP
18	LBL,PRNT,FCC ID,PRX800 WIFI
17	CBL,WA,16AWG,1.5" BRN
16	CBL,WA,16AWG,1.5" BLUE
15	RVT, .315X4.7X.09 SILRUB FAN
14	NUT HEX 6-32 KEPS ZINC
13	FSTNR,KNUT,EXTW,M3,2.4mm,BLUZN
12	FSTNR,MSCR,FLH,PH,M3,12mm,STL,BLKZN
11	BLACK SELF TAPPING PLASTITE SCREW 2.9 X 8MM
10	FSTNR,MSCR,PH-PNH,6-32X.375,SEMS
9	KNOB, MIXER EON206P
8	HDW,LTPP,SINGLE SMT LED,DOME,26MM HT
7	HDW,SWCAP,VERT,RND,BLACK,20MM HT,2.4MM SQ MT
6	PCB,ASY,PRX800W,INPUT
5	PCB,ASY,PRX800,LINE FILTER
4	GROUND WIRE, PRX700
3	THRMMGT,FAN,50X50X15,24V,11.6 CFM
2	AC INLET SOCKET,PRX700
1	ENCL,PNL,BACK,PRX800W



COMPONENT MAP

TOPSIDE
SCALE: 2:1

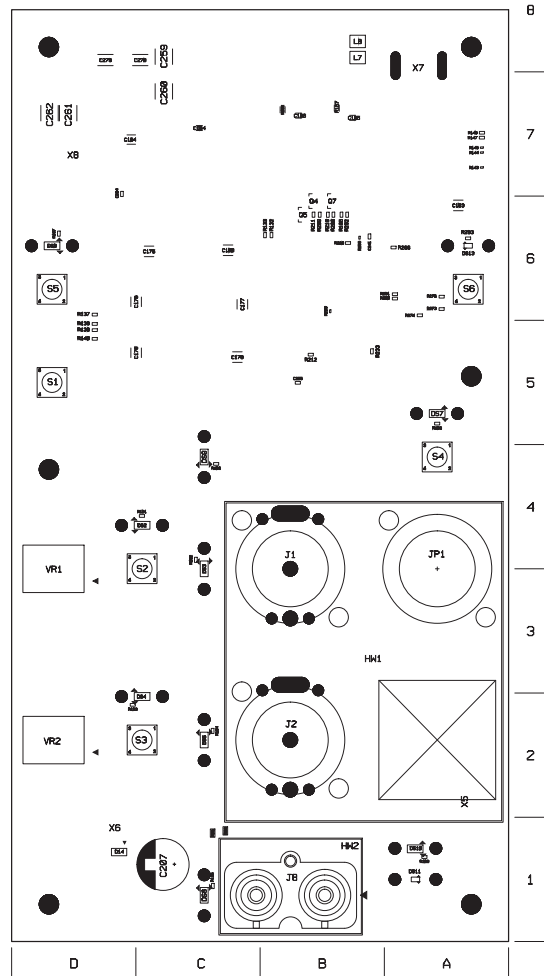
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03-20-18	A	SEE 5065760-03_A.XLS FOR COMPONENT DATA AND REVISION HISTORY.		TLM
05-31-18	B	SEE 5065760-03_B.XLS FOR COMPONENT DATA AND REVISION HISTORY.		TLM
06-10-18	C	SEE 5065760-03_C.XLS FOR COMPONENT DATA AND REVISION HISTORY.		TLM



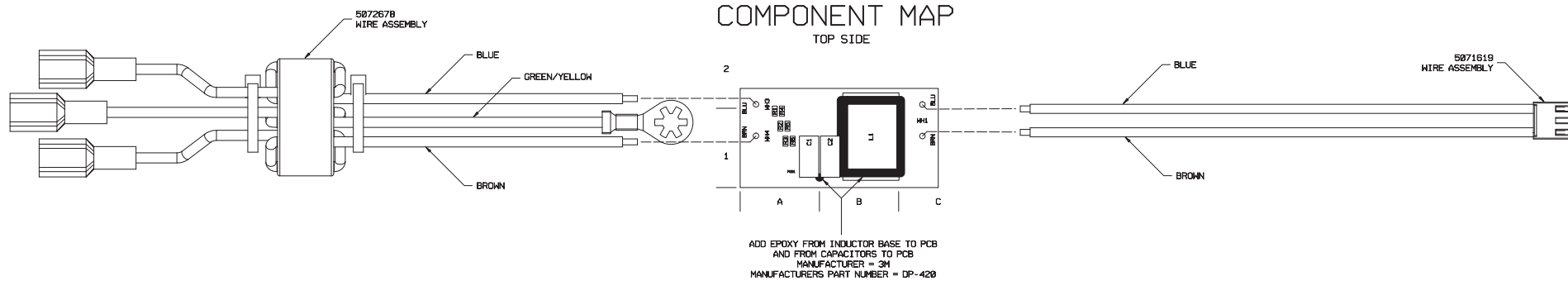
ROHS		HARMAN	
<small> TOLERANCES UNLESS OTHERWISE SPECIFIED: FINISHED DIMS: 0.005 (0.125) UNFINISHED DIMS: 0.010 (0.254) DIA: 0.010 (0.254) HOLE: 0.010 (0.254) ALL DIMENSIONS APPLY UNLESS OTHERWISE SPECIFIED </small>		<small> TITLE: PCB,ASY,PRX800W_INPUT_FULL_AV1 </small>	
<small> ALL DIMENSIONS ARE IN INCHES (MM) DECIMALS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED </small>		<small> DRAWN BY: MCKINSEY, TLM </small>	<small> DATE: 03-20-18 </small>
<small> ALL DIMENSIONS ARE IN INCHES (MM) DECIMALS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED </small>		<small> DESIGNED BY: MCKINSEY, TLM </small>	<small> DATE: 03-20-18 </small>
<small> UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES (MM) DECIMALS ARE IN MILLIMETERS </small>		<small> REV. NO.: 5065760-03 </small>	<small> REV. C </small>
<small> UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES (MM) DECIMALS ARE IN MILLIMETERS </small>		<small> SCALE: 1:1 </small>	<small> DO NOT SCALE DRAWING </small>

COMPONENT MAP

BOTTOMSIDE
SCALE: 2:1



REV. NO.	5065760-03	REV. C
DATE	REV. NO. / REV.	
D		
SCALE	CS	DO NOT SCALE DIMENSIONS
		SHEET 2 OF 4



COMPONENT MAP
TOP SIDE

ADD EPOXY FROM INDUCTOR BASE TO PCB
AND FROM CAPACITORS TO PCB
MANUFACTURER = 3M
MANUFACTURERS PART NUMBER = DP-420

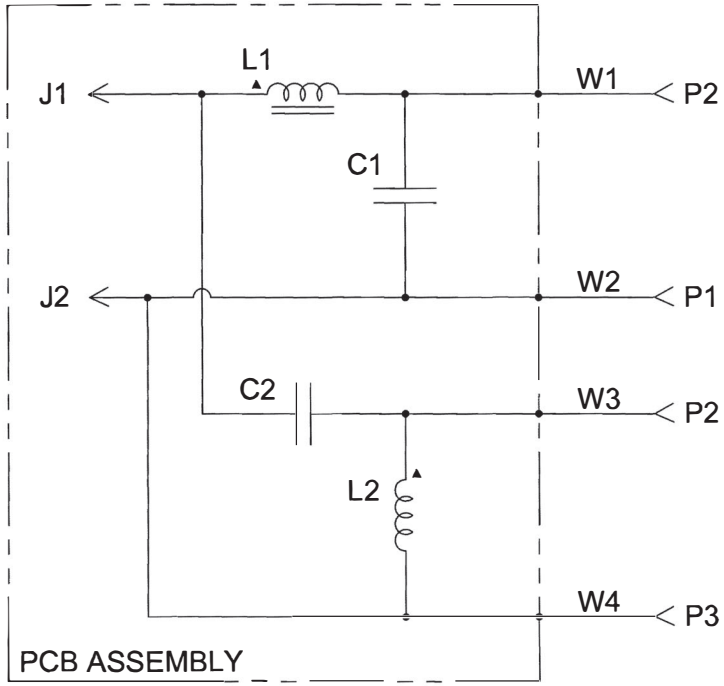
<p>ROHS RESTRICTION OF HAZARDOUS SUBSTANCES ALL MATERIALS USED IN THIS PART MUST BE ROHS COMPLIANT. SUPPLIER SHALL PROVIDE A CERTIFICATE OF ROHS COMPLIANCE WITH THE FIRST ARTICLE.</p>		<p>TOLERANCES UNLESS OTHERWISE SPECIFIED FINISHED DRILL: ± 0.003 (0.0762) REGISTRATION: ± 0.002 (0.0762) MINIMUM ANNULAR RING: ± 0.002 (0.0508) .XX = ± 0.01 (0.254) .XXX = ± 0.005 (0.127)</p>		<p>HARMAN</p>	
<p>ALL DIMENSIONS ARE IN INCHES (MM) ALL DIMENSIONS APPLY AFTER FINISH</p>		<p>DATE: 03-11-16</p>		<p>TITLE: PCB, ASY, PRX_8xx_LINE_FILTER_AV1</p>	
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<p>ENGINEER: BIRD, ERNIE</p>		<p>DATE: 03-11-16</p>		<p>SCALE: 1:1</p>	
<p>PROPRIETARY AND CONFIDENTIAL PROPERTY OF HARMAN. DO NOT DISCLOSE, REPRODUCE, OR PUBLISH WITHOUT WRITTEN HARMAN APPROVAL.</p>		<p>SCALE: 1:1</p>		<p>DO NOT SCALE DRAWING</p>	
				<p>SHEET 1 OF 2</p>	

8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

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REVISIONS						
CHG	LTR	DESCRIPTION	DRFT	D.C	DATE	APPR
					6/13	CSL



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A

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NOTES: (UNLESS OTHERWISE SPECIFIED)

JBL PROFESSIONAL					
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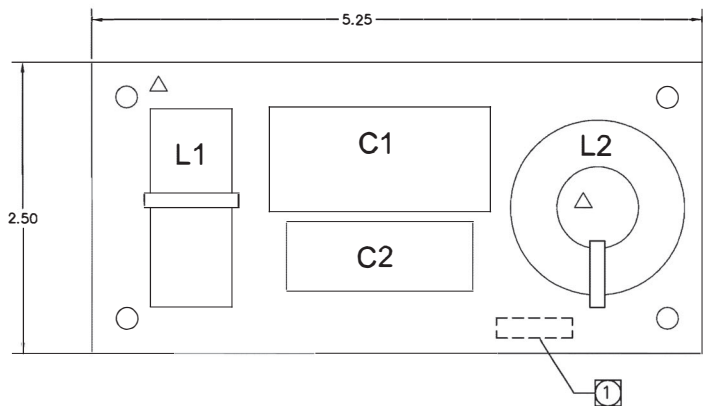
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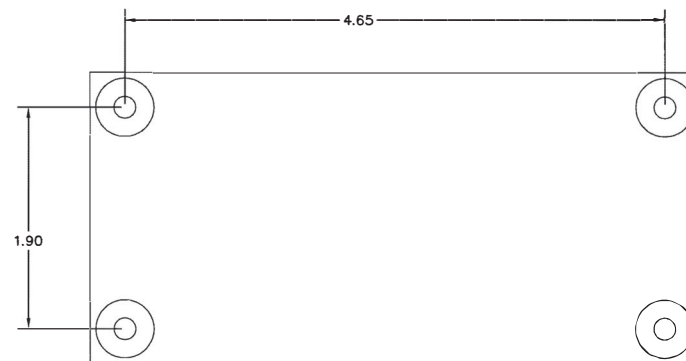
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					6/3/13	CSL



VIEW FROM COMPONENTS SIDE



VIEW FROM TRACE SIDE

NOTES: (UNLESS OTHERWISE SPECIFIED)

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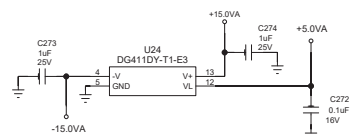
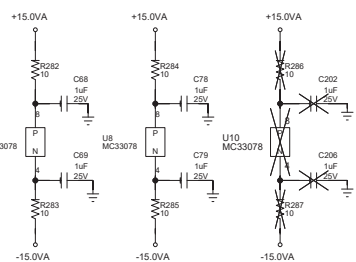
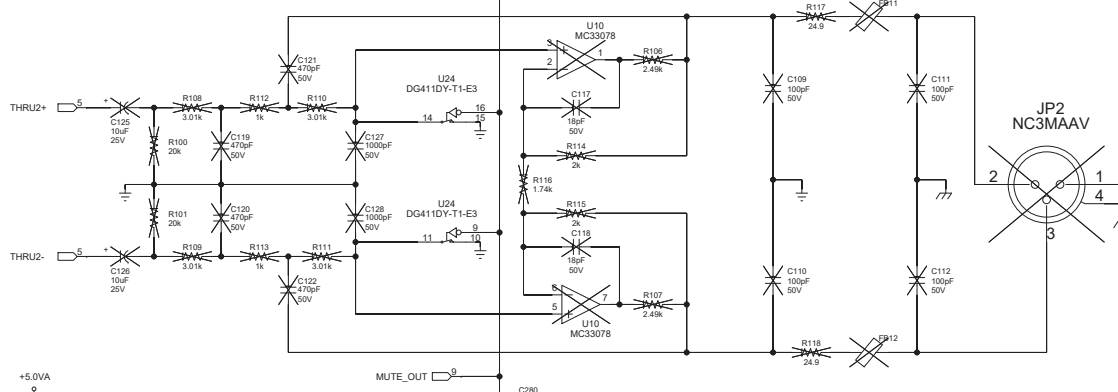
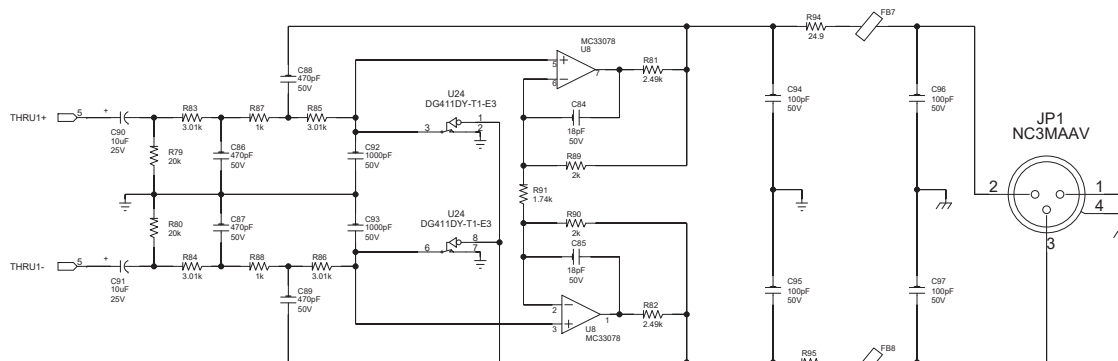
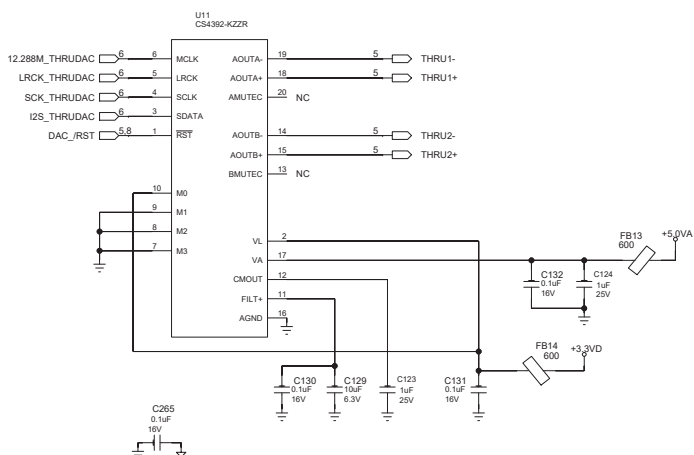
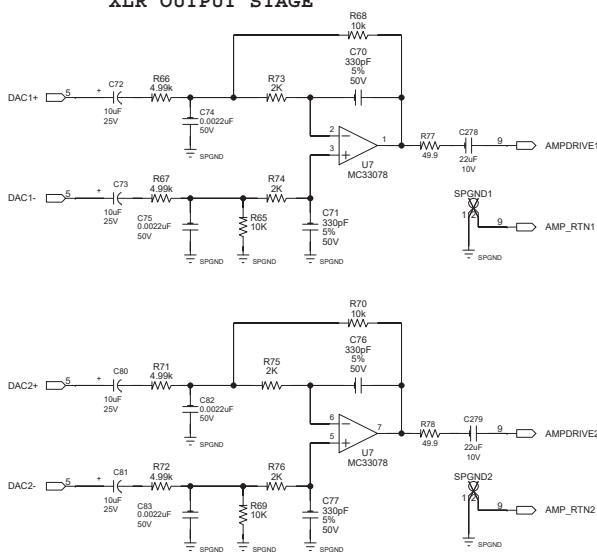
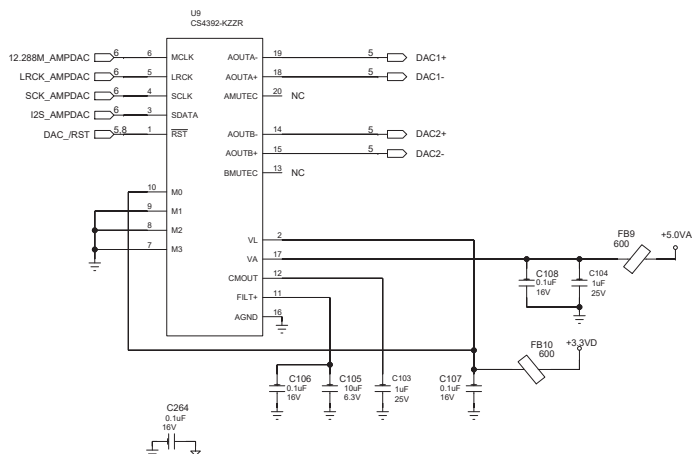
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2	Component Map - Bottom Side
3	Title Page
4	INPUT
5	OUTPUT
6	SHARC
7	LED/SWITCHES
8	MICRO/WIFI
9	PWR SUPPLY/CONNECTORS/FAN

NOTE:
UNLESS OTHERWISE SPECIFIED:
1. ALL RESISTORS ARE IN OHMS, 1% AND 0.063W
2. ALL CAPACITORS ARE IN MICROFARADS

TITLE PAGE

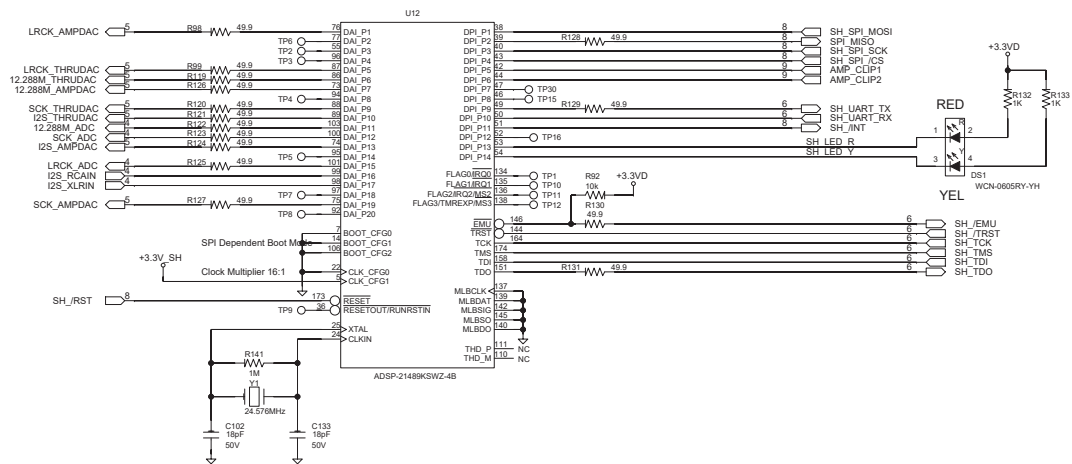
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XLR OUTPUT STAGE

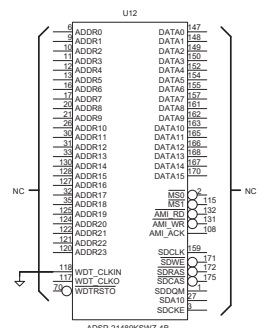
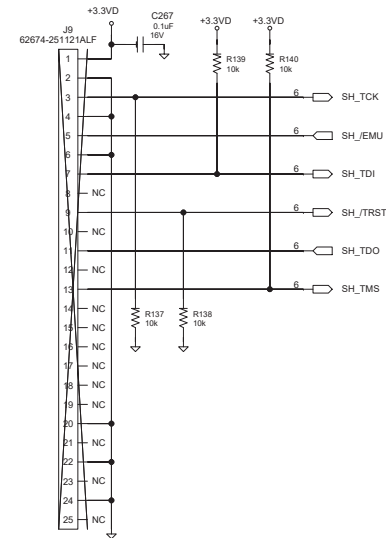


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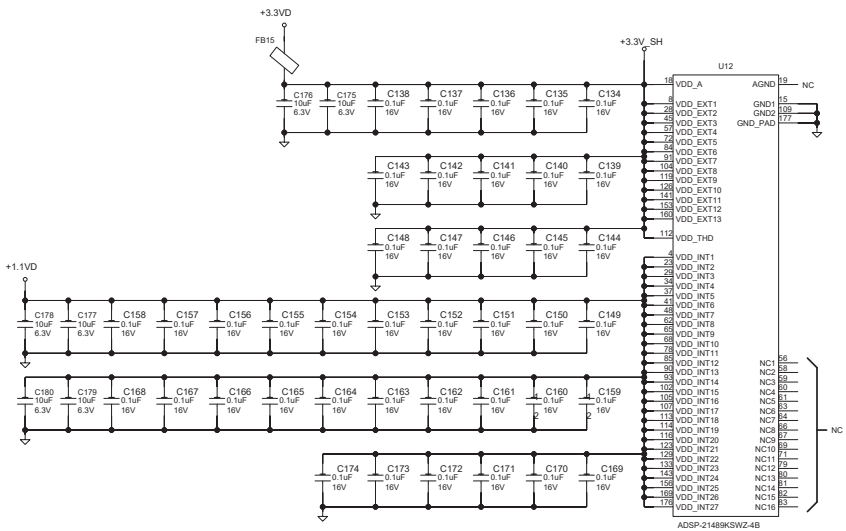
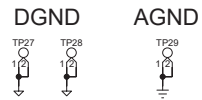
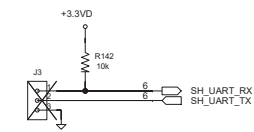
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SHARC JTAG DEBUG

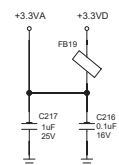
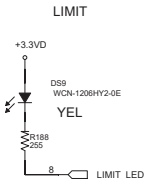
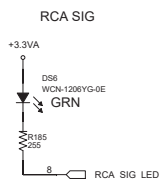
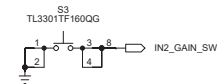
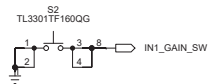
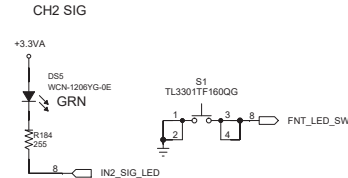
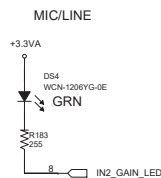
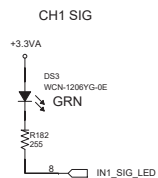
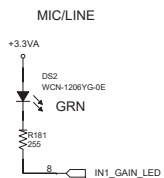


SHARC DEBUG HEADER

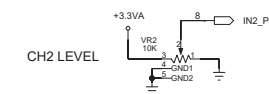
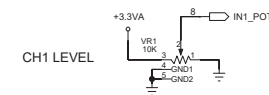
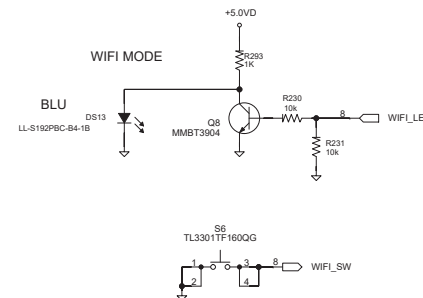
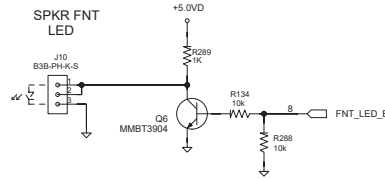
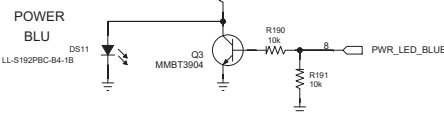
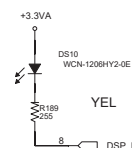


SHARC

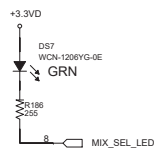
REVISION		REVISION	
REV	REV	DATE	DATE
C	C	09/06/2016:15:24	
DESCRIPTION	DESCRIPTION	5065760-03	
SCALE	SCALE	5065760-03	5065759-02
PAGE	PAGE	6 of 9	18



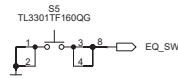
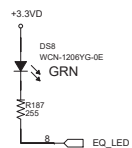
CUSTOM EQ



THRU



TUNING



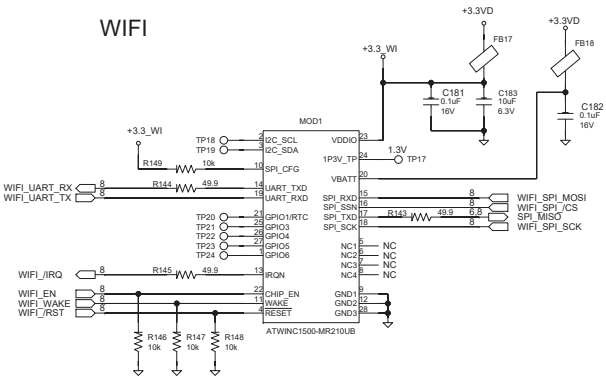
THRU BUTTON/LED FUNCTION		
MODEL	OFF	ON
810, 812, 815	STANDARD	50/50
825, 835	MIX	MIX
815XLF, 818XLF	FLAT	HI-PASS

TUNING BUTTON/LED FUNCTION		
MODEL	OFF	ON
810, 825, 835	NORMAL	BOOST
812, 815	MAIN	MONITOR
815XLF, 818XLF	NON-INVERTED	INVERTED

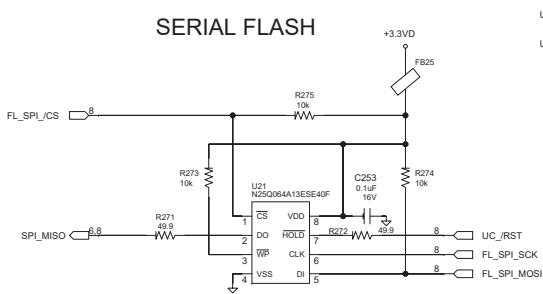
LED/SWITCHES

REVISED NAME		REVISION NUMBER	
ITEM	QCN PART NO.	09/06/2016:15:26	
C	5065760-03	C	
SCALE	REV PART NO.	REV PART NO.	SHEET
NONE	5065760-03	5065759-02	7 of 9 19

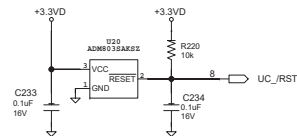
WIFI



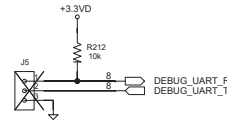
SERIAL FLASH



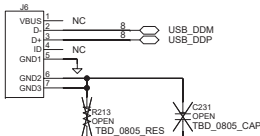
VOLT SUPP



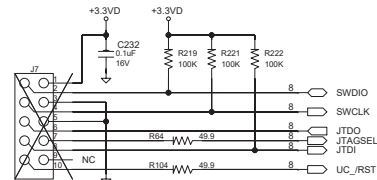
MICRO DEBUG



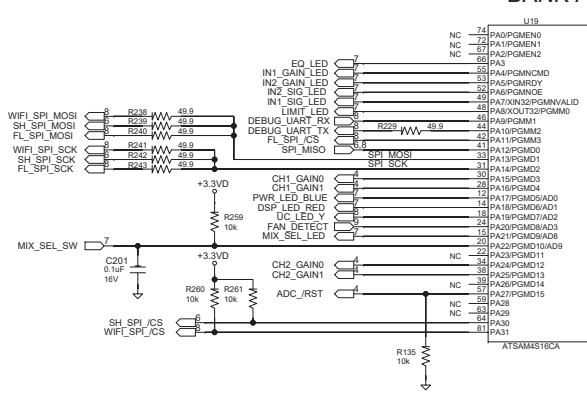
USB



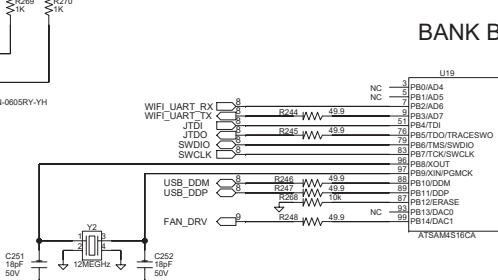
JTAG DEBUG



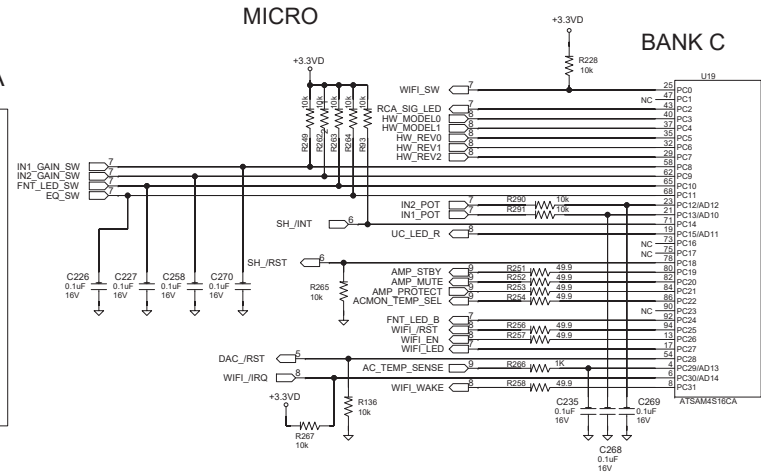
BANK A



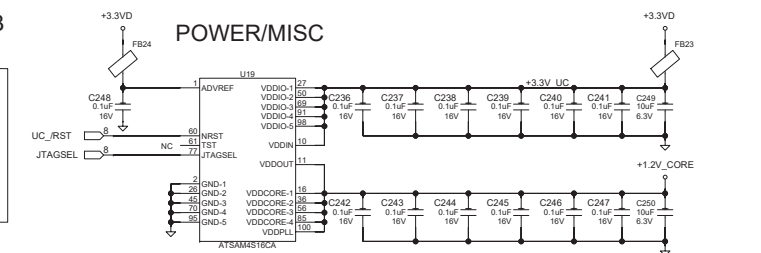
BANK B



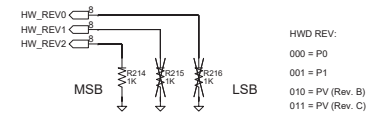
MICRO



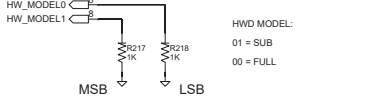
POWER/MISC



HARDWARE REVISION ID



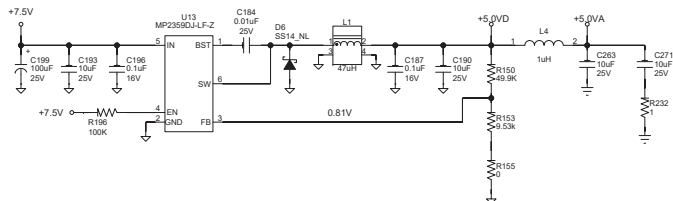
HARDWARE MODEL ID



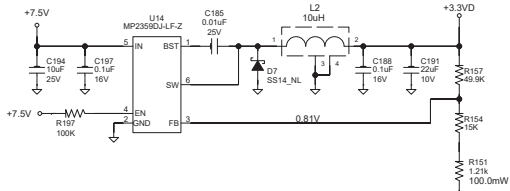
MICRO/WIFI

REVISED PART NO.		REVISION	
C		10/06/2016:10:31	
5065760-03		C	
SCALE	REV PART NO.	REV PART NO.	SHEET
NONE	5065760-03	5065759-02	8 of 9

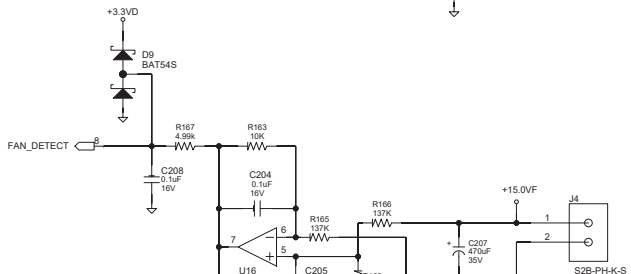
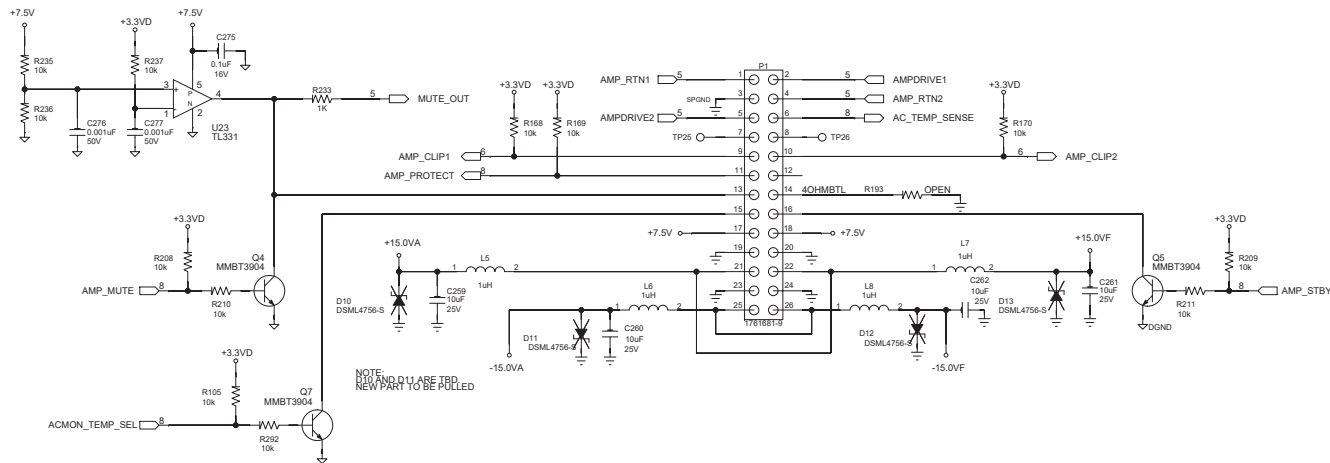
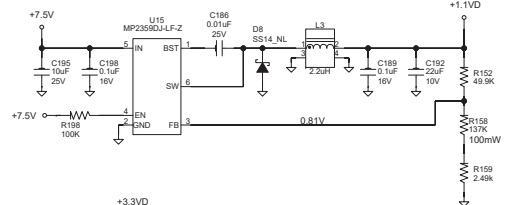
+5V D REGULATOR



+3.3V REGULATOR



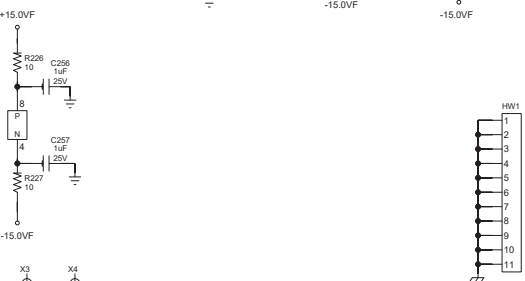
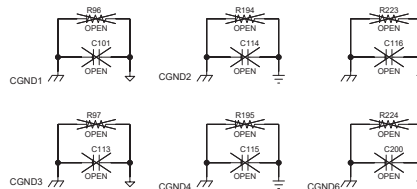
+1.1V REGULATOR



FAN DRIVE

FAN

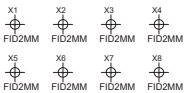
CHASSIS MOUNTING HOLES



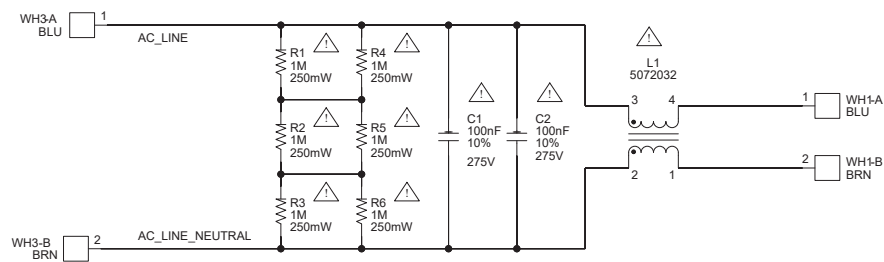
XLR SHIELD

MODEL ID RESISTOR
R156
1.21k

PWR SUPPLY/CONNECTORS/FAN



REV	REV DATE	REV
1	10/06/2016:09:28	
C	5065760-03	C
NONE	5065760-03	5065759-02
		9 of 9 21



 **CRITICAL TO SAFETY COMPONENTS.
REPLACE WITH SAME COMPONENT ONLY!**

PCB1	5071360-01	PCB,RAW,PRX_8xx_LINE_FILTER,BDB	
SHEET NAME		1	REVISION DDATE
			25/05/2016:09:18
SIZE	SCH PART NO.	REV	
C		B	
		5071362-02	
SCALE	ASY PART NO.	PCB PART NO.	SHEET
NONE	5071362-02	5071360-01	2 OF 2

4

3

2

1

Refer to the corresponding Service Bill of Materials (SBOM) to order parts stocked by Harman.

Bill of Materials - System		
Ref ID	Description	Qty
1	PANEL, TOP, PRX825	1
2	PANEL, REAR, PRX835W	1
3	WRAP, LEFT, PRX835W	1
4	STIFFENER, CENTER, PRX835W	1
5	STIFFENER, REAR, PRX835W	1
7	PANEL, BOTTOM, PRX835	1
8	GRILL SUPPORT, PRX815	2
9	GRILL SUPPORT SIDE, (NEW), PRX835W	2
10	BAFFLE, PRX835W	1
11	WRAP, RIGHT, PRX835W	1
12	T-NUT, 10-32, SPECIAL, PRO	10
13	T-NUT 8-32X1 1/32	16
14	T-NUT, 10-32	28
15	SCR, M10 X 35MM, FLAT, HEX, BLK ZNC, ALLOY	12
16	L-BRACKET, M10, LOW COST	6
17	SCR, 8 X 1/2, PAN, PH, PB, BLK ZINC, LCS	14
18	T-NUT, 1/4-20 X 5/16, 4 PRONG, CLR ZINC	3
19	SCR, 1/4-20 X 1 1/4, FLT, PH, UNC, BLK ZNC, L	3
20	AMPLIFIER, PRX 825W/835W	1
22	SCR, 10-32 X 3/4", FLT, PH, BLK ZINC, LCS	10
23	HANDLE ASSY, PRX700	2
24	FSTNR, MSCR, 8-32, HANDLE, VXP15	16
25	FOOT, SRX	4
26	SCR, 10 X 3/4, PAN, PH, PB, BLK ZINC, LCS	4
27	M/I, 275G	1
28	GASKET, REAR 15"	1
29	SCR, 10-32 X 1, FIL, PH, BLK	12
30	LED PCB, PRX800	1
31	SCR, 6X3/4", PAN, PH, PB, BLK	6
32	LOGO SRX800, EON615	1
33	GRILLE, PRX835	1
34	SCR, 6 X 3/4, OV, PH, PTCL, BLK ZC, LCS	18
35	MID HORN, PRX700	1
36	POLE CUP, EON518S	1
37	GASKET, POLE CUP, EON518S	1
38	MID HORN GASKET, PRX835	1
39	NUT, 10-32, KEPS, BLK ZINC, LCS, RIGHT	4
40	WSHR, #10X.06, FLT PL, BLK	4
41	MID DRIVER, 196H	1
42	HORN, JRX	1
43	GASKET, 6.5 X 12 WAVEGUIDE AE	1
44	2408H-2 UNIT ASSEMBLY	1
45	SCR, 10-32X1, PAN, PH, BLK	20
46	NETWORK ASSY, PRX735	1
52	GASKET, HANDLE VTX-V25	2
53	FBRGL, 1"x72", 600SF/ROLL	14
54	HARNESS ASSY, PRX725/ PRX735	1
55	CORD, AC, LINE, 120V, EON	1
71	ANTENNA, PRX800	1

Bill of Materials - Amplifier		
Ref ID	Description	Qty
1	ENCL,CHAS,PRX800W EM	1
2	ISOLATING SHEET, PRX700	1
3	GAP PAD 1, PRX700	2
4	GAP PAD 2, PRX700	1
5	GAP PAD 3, PRX700	1
6	PSU / AMPLIFIER BOARD ASSEMBLY, PRX700 (A2710515B01A)	1
7	26PIN RIBBON CABLE, PRX700	1
8	CBL,WA,RF,PAS,200mm,50ohm,RP-SMA,MHF	1
9	GASKET, PCB PASS THROUGH	1
10	PASS THRU PCB ASSEMBLY- 2 WAY, PRX700	1
13	MECHASY,PRX 812W/815W,REAR PNL	1
13.1	ENCL,PNL,BACK,PRX 812W/815W	1
13.2	AC INLET SOCKET, PRX700	1
13.3	THRMMGT,FAN,50X50X15,24V,11.6 CFM	1
13.4	GROUND WIRE, PRX700	1
13.5	PCB,ASY,PRX_8xx_LINE_FILTER,AV1	1
R1-R6	RES,1M00,1.0%,125mW,TN,1206,CSA TESTED	6
C1-C2	CAP,100n,10%,275V,FILM,PP,RDL	2
WH1	CBL,WA,18AWG,BRN/BLU,PRX800W	1
L1	IDCTR,CHOKE,COMMON MODE,T25/15/13-R10K	1
WH3	CBL,WA,IEC,PRX800W	1
13.6	PCB,ASY,PRX800W_INPUT_FULL,AV1	1
U9,U11	IC, DAC 2CH 24BIT 192KHZ CS4392 TSSOP20	2
D1-D5,D9	DIO,SCHOTTKY,BAT54S,30V,200mA,SOT23	6
C190,C193-C195,C259-C263,C271	CAP,10u,10%,25V,CER,X7R,1210	10
C105,C129,C175-C180,C183,C249-C250	CAP,10u,20%,6.3V,CER,X5R,0805	11
L2	IND, 10UH 1.8A 5.2X5.2	1
C191-C192,C278-C279	CAP,22u0,20%,10V,CER,X5R,1206	4
S1-S6	SW, 1P1T PB 250V 50MA SM VRT	6
C21-C26,C47-C48,C64-C69,C78-C79,C98-C99,C103-C104,C123-C124,C209-C210,C217-C218,C223,C228,C256-C257,C273-C274	CAP,1.0u,10%,25V,CER,X5R,0603	32
C184-C186	CAP,10n0,5%,25V,CER,X7R,0402	3
U23	IC, COMP LOBIAS TL3311 SOT-23-5	1
R9-R10,R36-R37,R55-R56,R171-R172	RES,182R,1%,63mW,THKF,0603	8
R154	RES,15k0,1%,100mW,THKF,0603	1
R151,R156	RES,1k21,1%,100mW,THKF,0603	2
C92-C93	CAP,1n0,5%,50V,CER,COG,0603	2
D14	DIO,GP,MMBD4148SE,100V,200mA,SOT23	1
U13-U15	IC,VREG,MP2359,ADJ,SW,1.2A,SOT23-6	3
D6-D8	DIO,SCHOTTKY,SS14,1.0A,40V,DO-214AC/SMA	3
C74-C75,C82-C83	CAP,2n2,5%,50V,CER,COG,0603	4
U12	IC,DSP,ADSP-21489KSWZ-4B,400MHz,176,LQFP	1
Q2	XSTR,BJT,NPN,80V,8A,D-PAK	1
R11-R12,R38-R39,R81-R82,R159	RES,2k49,1%,63mW,THKF,0402	7

FB1-FB10,FB13-FB15,FB17-FB21,FB23-FB25	IDCTR,FBD,600R,100MHZ,1300mA, 0603	21
L4-L8	IDCTR,1U,1A,3.2X2.5X2.0,SM	5
DS11,DS13	OPTO,LED,BLU,473nm,CLR 140mcd,SMD0603	2
DS2-DS8	OPTO,LED,GRN,565nm,CLR,30mcd,SM1206	7
DS9-DS10	OPTO,LED,YEL,589nm,DIF,8mcd,SM1206	2
C1,C35,C100,C106-C108,C130-C132,C134-C174,C181-C182,C187-C189,C196-C198,C201,C203-C205,C208,C211-C216,C219-C222,C224-C227,C232-C248,C253-C255,C258,C264-C270,C272,C275,C280	CAP,100n,10%,16V,CER,X7R,0402	108
C199,C229	CAP,100u,20%,25V,EL,85C,6.3x7.7,SM	2
C12-C15,C38-C41,C55-C58,C72-C73,C80-C81,C90-C91	CAP,10u0,20%,25V,EL,85C,4x5.4,SM	18
R65,R68-R70,R92-R93,R105,R134-R140,R142,R146-R149,R162-R163,R168-R170,R190-R191,R206,R208-R212,R220,R225,R228,R230-R231,R235-R237,R249,R259-R265,R267-R268,R273-R275,R288,R290-R292	RES,10k0,1%,63mW,THKF,0402	57
R87-R88,R132-R133,R173-R178,R192,R214,R217-R218,R233,R266,R269-R270,R289,R293	RES,1k00,1%,63mW,THKF,0402	20
C2-C3,C27-C28	CAP,10n0,5%,50V,CER,COG,0805	4
R64,R98-R99,R104,R119-R131,R143-R145,R179-R180,R201-R202,R229,R238-R248,R251-R254,R256-R258,R271-R272	RES,49R9,1%,63mW,THKF,0201	45
R73-R76,R89-R90	RES,2k00,1%,63mW,THKF,0402	6
JP1	CON,XLR,M,3P,PLASTIC,TH,VERT	1
R232	RES,1R00,1%,100mW,THKF,0603	1
R155	RES,0R00,+0R05,63mW,THKF,0402	1
R77-R78	RES,49R9,1%,63mW,THKF,0402	2
C276-C277	CAP,1n0,10%,50V,CER,X7R,0402	2
U21	IC,MEM,FLASH,SPI,64Mb,3.3v,SO8W,DANTE	1
Y2	XTLO,XTAL,12.000MHz,18pF,SMD	1
HW1	HDW,SHLD,SRX,4 XLRS	1
C10-C11,C36-C37,C53-C54,C84-C85,C102,C133,C251-C252	CAP,18p0,5%,50V,CER,COG,0603	12
U17,U24	IC,DG411,QUAD,CMOS,ANALOG SWITCH	2
Y1	XTLO,XTAL,24M576,18p,MTL,LP,SM,TA	1
R181-R189	RES,255R,1%,63MW,THKF,0402	9
R17-R22,R40-R45,R57-R62	RES,1k27,1%,63MW,THKF,0402	18
DS1,DS12	OPTO,LED,RED/YEL,1.6X1.5X0.55MM,0605	2
U20	IC,LIN,SPRVSOR RESET,803,2.93V,SC70	1
R153	RES,9k53,1%,63mW,THKF,0402	1
MOD1	MDL,ELEC,WINC1510-MR210U,WIFI,8Mb	1
U18	IC,CONV,ADC,CS5364,4CH,24BIT,192kHz,114dB,LQFP48	1
J4	CON,HDR,1X2,2MM,RA,TH,ML	1
J10	CON,HDR,VERT,2MM,3POS,TH	1
P1	CON,HDR,2X13,SHRD,0.1",TH,VERT,ML	1

J8	CON,DUAL,RCA,VERT,24MM,WHT/RED,TH	1
VR1-VR2	RES,RTRY,10k0,B,VERT,TH	2
HW2	HDW,SHLD,PRX800W,RCA	1
R1,R24,R102-R103	RES,162R,1%,750mW,THKF,2010	4
L3	IDCTR,FBD,2u2,100kHz,3.2A,5.2x5.2,SM	1
L1	IDCTR,FBD,47u0,100kHz,0.7A,5.2x5.2,SM	1
R158,R165-R166	RES,137k,1%,100mW,THKF,0603	3
U19	IC,MIPRCS,SAM4S16CA,1MB FLASH,LQFP100	1
J1-J2	CON,XLR,VERT,AuCoAg,FEM,COMBO,DISASY	2
J6	CON,USB,MICRO,I/O,TYPE B,VERT,RCPT,SM	1
R196-R198,R219,R221-R222	RES,100k,1%,63mW,THKF,0402	6
R141	RES,1M00,1%,63mW,THKF,0402	1
R23,R46,R199-R200,R203-R205,R207,R226-R227,R276-R285	RES,10R0,1%,63mW,THKF,0402	20
R91	RES,1k74,1%,63mW,THKF,0603	1
R5-R8,R13-R16,R28-R35,R51-R54,R79-R80	RES,20k0,1%,63mW,THKF,0402	22
R164	RES,200k,1%,63mW,THKF,0402	1
R94-R95	RES,24R9,1%,63mW,THKF,0402	2
R83-R86,R160	RES,3k01,1%,63mW,THKF,0402	5
R63	RES,37k4,1%,63mW,THKF,0402	1
R4,R27,R49-R50	RES,4k75,1%,63mW,THKF,0402	4
R2-R3,R25-R26,R47-R48,R66-R67,R71-R72,R167	RES,4k99,1%,63mW,THKF,0402	11
R150,R152,R157,R161	RES,49k9,1%,63mW,THKF,0402	4
C4-C9,C29-C34,C49-C52,C94-C97,C230	CAP,100p,5%,50V,CER,COG,0402	21
C20,C46,C63,C70-C71,C76-C77	CAP,330p,5%,50V,CER,COG,0402	7
C16-C19,C42-C45,C59-C62,C86-C89	CAP,470p,5%,50V,CER,COG,0402	16
C207	CAP,470UF 35V 20% ELEC RAD	1
Q1,Q3-Q8	XSTR,N-CH,60V 0.2A,MMBT3904,SOT-23	7
U1-U8,U16,U22	IC,AMPL,33078,DUAL_LOW_NOISE,SO8	10
13.7	HDW,SWCAP,VERT,RND,BLACK,20MM HT,2.4MM SQ MT	6
13.8	HDW,LTPP,SINGLE SMT LED,DOME,26MM HT	11
13.9	KNOB, MIXER EON206P	2
13.10	FSTNR,MSCR,PH-PNH,6-32x3/8,#2,WSHR,BLUZN	9
13.11	FSTNR,MSCR,TORX,PNH,PLASTITE,4-20X.375	7
13.12	FSTNR,MSCR,FLH,PH,M3,12mm,STL,BLKZN	2
13.13	FSTNR,NUT,M3,K-LCK,STL,ZN	2
13.14	NUT HEX 6-32 KEPS ZINC	2
13.15	RVT, .315X4.7X.09 SILRUB FAN	4
13.16	CBL,WA,16AWG,1.5",BLUE	1
13.17	CBL,WA,16AWG,1.5",BRN	1
13.19	HDW,INSUL,TAPE,PRX800 LTPP	1
14	FSTNR,MSCR,PH-PNH,M3,8mm,BLKZN	20
15	FSTNR,MSCR,POZI,M4,SPR WSHR,10mm,BLUZN	4
16	FSTNR,MSCR,PH-PNH,6-32x1/4,EX SEMS,Zn	1
17	AMP GASKET, PRX700	2