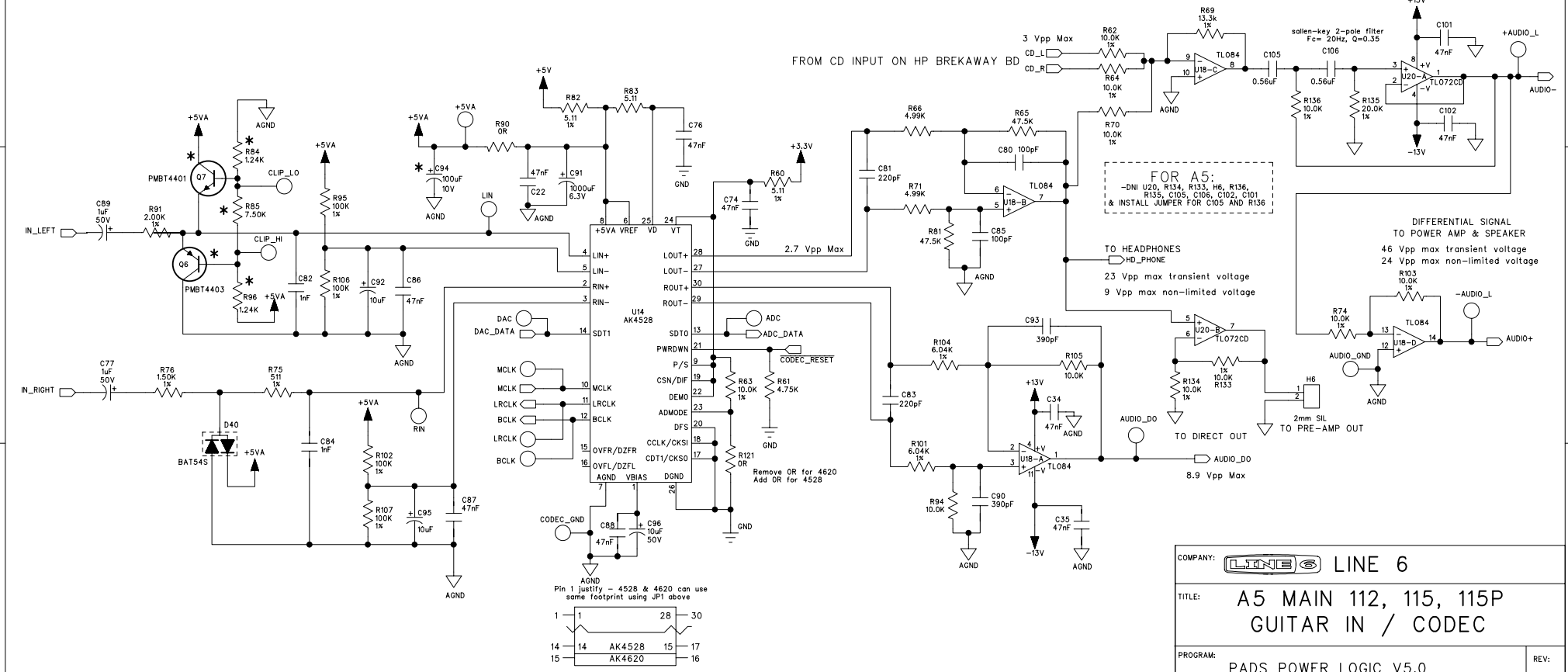


ECOs INCLUDED ON THIS SCHEMATIC/PCB REVISION		
ECO NO:	DATE:	DESCRIPTION:
0603706	02.08.06	Changed R47 from 1k to 100R
0603901	02.13.06	Added C100: 10uF cap elec 10V 20%
0604402	02.13.06	Rev. C Release

19 May 08 Rev. D Release .. add H6 & U20

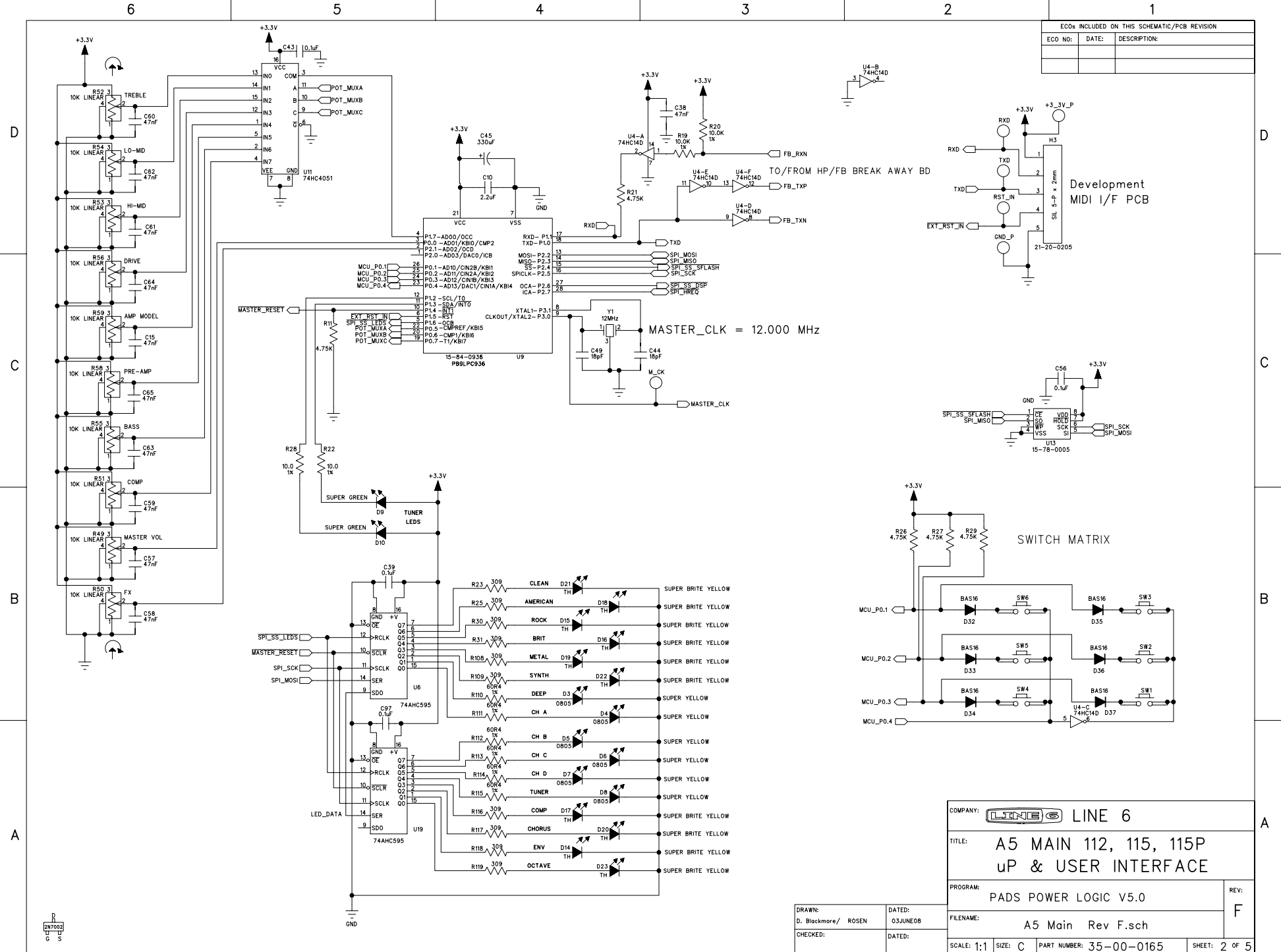


THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF LINE 6 INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF LINE 6 INC. IS PROHIBITED

DRAWN: GK/D. Blackmore
DATED: 03JUN08
CHECKED: DATED:

REV: **F**

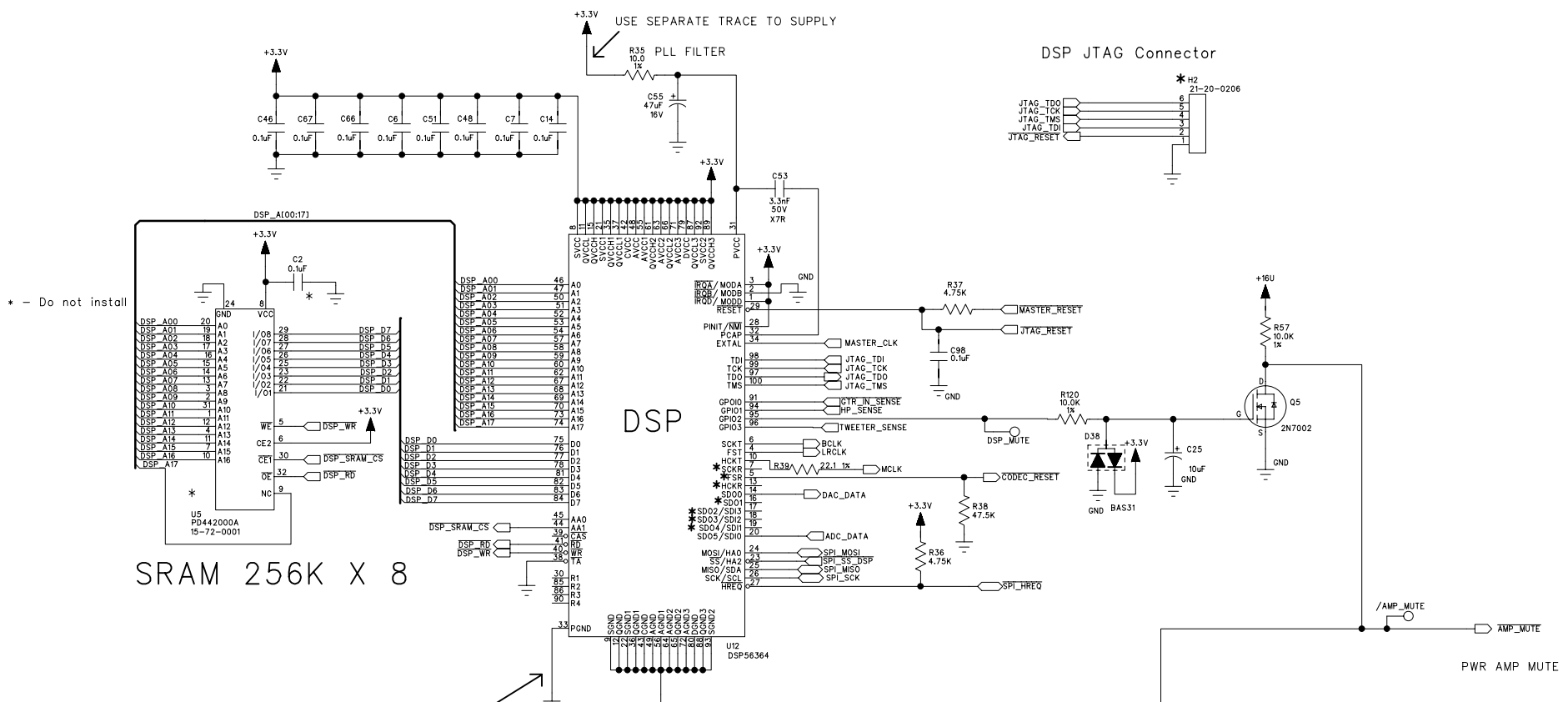
ECOs INCLUDED ON THIS SCHEMATIC/PCB REVISION		
ECO NO:	DATE:	DESCRIPTION:



DRAWN: D. Blackmore/ ROSEN	DATED: 03JUNE08	COMPANY: LINE 6	TITLE: A5 MAIN 112, 115, 115P uP & USER INTERFACE
CHECKED:	DATED:	PROGRAM: PADS POWER LOGIC V5.0	
FILENAME: A5 Main Rev F.sch		REV: F	SCALE: 1:1
SIZE: C		PART NUMBER: 35-00-0165	SHEET: 2 OF 5

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ECOs INCLUDED ON THIS SCHEMATIC/PCB REVISION		
ECO NO:	DATE:	DESCRIPTION:



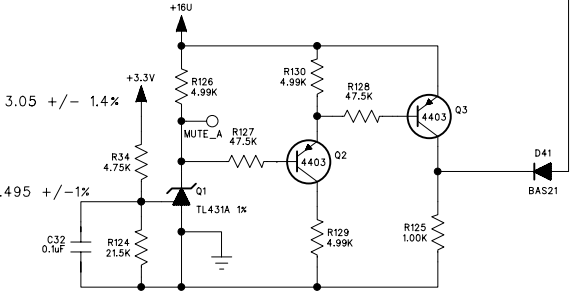
* - Do not install

SRAM 256K X 8

DSP

DSP JTAG Connector

USE SEPARATE TRACE TO SUPPLY



POWER FAIL DETECT:

Q1 turns off at 3.3V < 3.05V ± 1.4%
 Q2 off, Q3 off, R125 pulls MUTE low

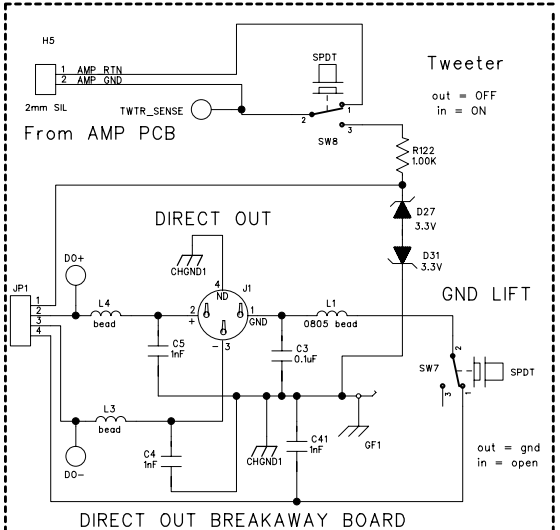
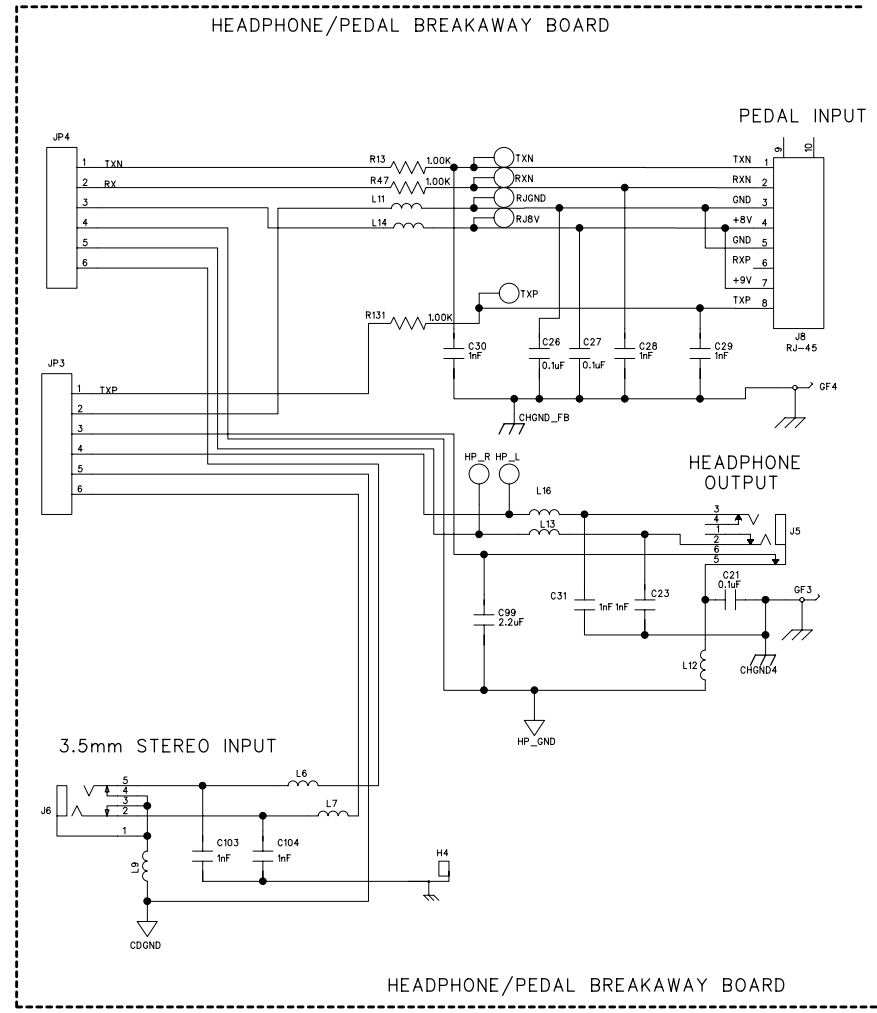
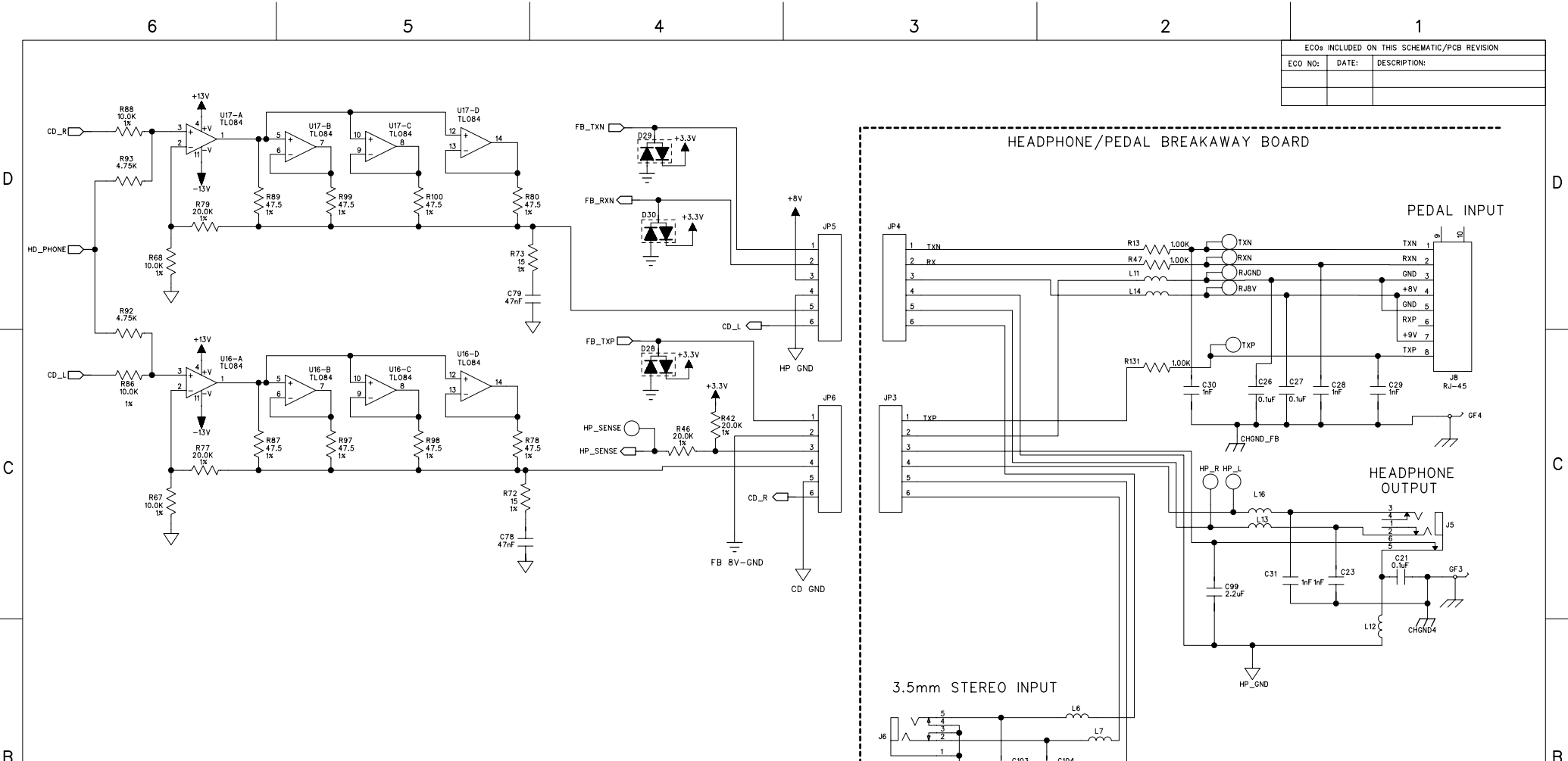
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF LINE 6 INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF LINE 6 INC. IS PROHIBITED

DSP CORE CLOCK = 99,993,600 Hz (approx 100MHz)
 MCLK 256FS_CLK = ??M Hz
 BCLK 64FS_CLK = ??M Hz
 LRCLK FS_CLK = ??K Hz

COMPANY:	LINE 6
TITLE:	A5 MAIN 112, 115, 115P DSP
PROGRAM:	PADS POWER LOGIC V4.0
REV:	F
FILENAME:	A5 Main Rev F.sch
SCALE:	1:1
SIZE:	C
PART NUMBER:	35-00-0165
SHEET:	3 OF 5

DRAWN:	D. Blackmore	DATED:	29MAY2008
CHECKED:	Name (F.Last)	DATED:	00/00/01

ECOs INCLUDED ON THIS SCHEMATIC/PCB REVISION		
ECO NO:	DATE:	DESCRIPTION:



THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF LINE 6 INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF LINE 6 INC. IS PROHIBITED

COMPANY:	LINE 6
TITLE:	A5 MAIN 112, 115, 115P DIRECT OUT / HEADPHONE AMP
PROGRAM:	PADS POWER LOGIC V5.0
REV:	F
FILENAME:	A5 Main Rev F.sch
SCALE: 1:1	SIZE: C
PART NUMBER: 35-00-0165	SHEET: 4 OF 5

DRAWN:	DATED:
D. Blackmore	29MAY2008
CHECKED:	DATED:
	Date

6

5

4

3

2

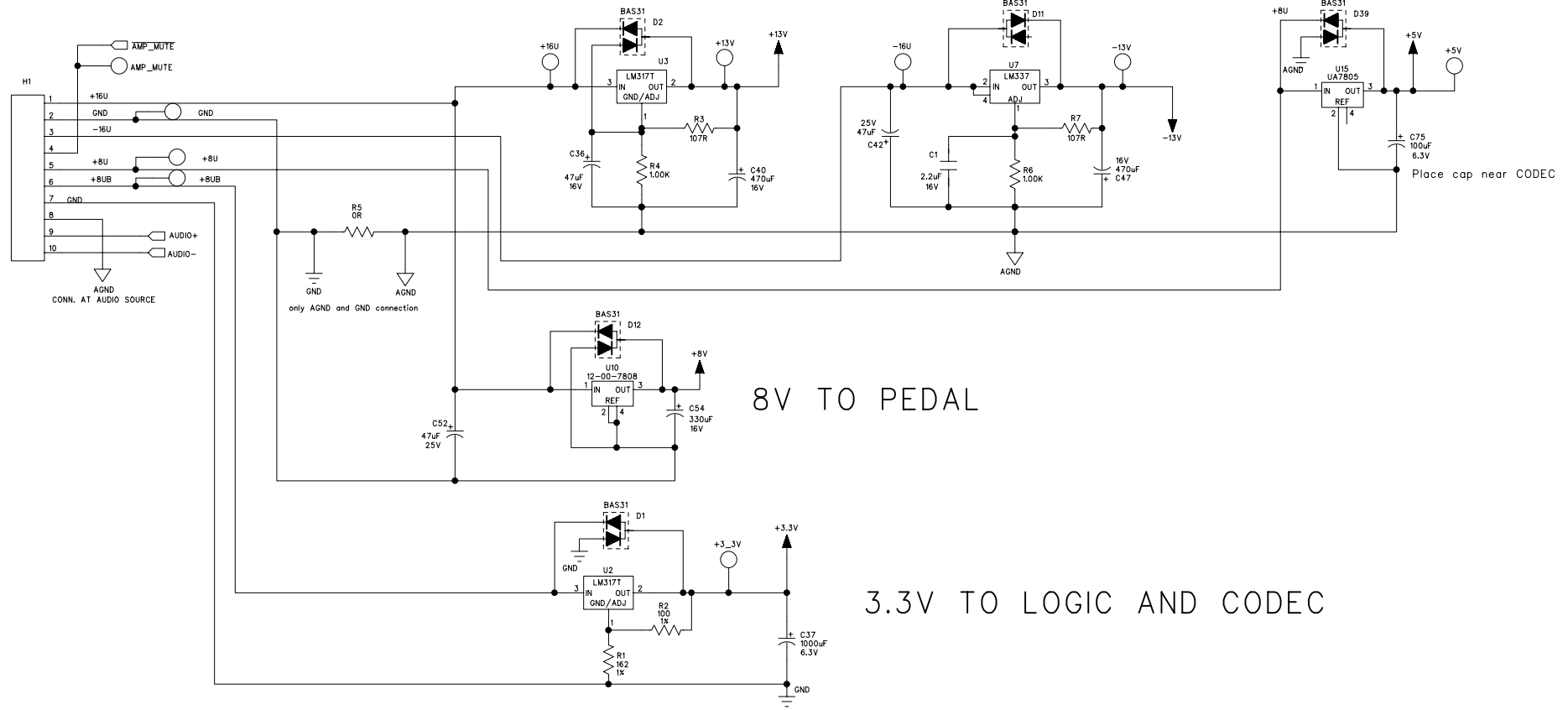
1

ECO#s INCLUDED ON THIS SCHEMATIC/PCB REVISION		
ECO NO:	DATE:	DESCRIPTION:

13V TO OPAMPS

-13V TO OPAMPS

5V TO CODEC

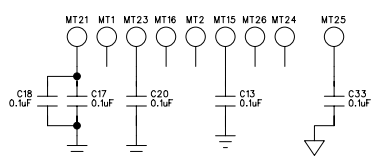
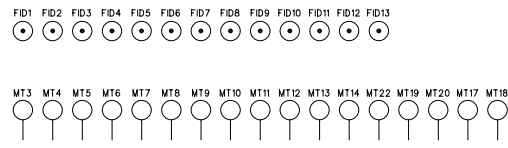


8V TO PEDAL

3.3V TO LOGIC AND CODEC

Place cap near CODEC

only AGND and GND connection



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COMPANY:	LINE 6
TITLE:	A5 MAIN 112, 115, 115P POWER SUPPLY
PROGRAM:	PADS POWER LOGIC V5.0
REV:	F
FILENAME:	A5 Main Rev F.sch
SCALE: 1:1	SIZE: C
PART NUMBER: 35-00-0165	SHEET: 5 OF 5

DRAWN: ROSEN	DATED: 29MAY2008
CHECKED:	DATED:

D

C

B

A

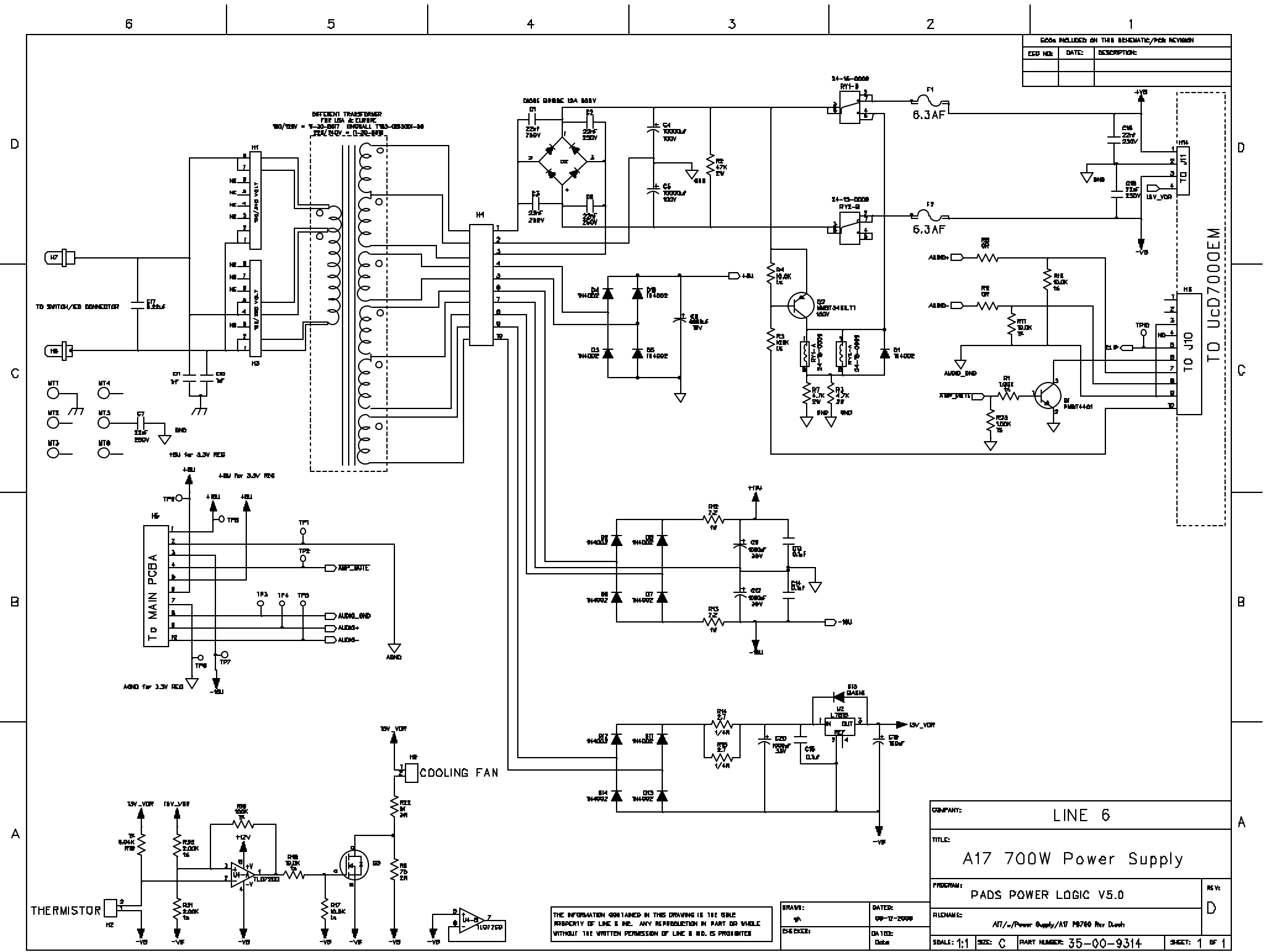
D

C

B

A

To Power Supply / Amp

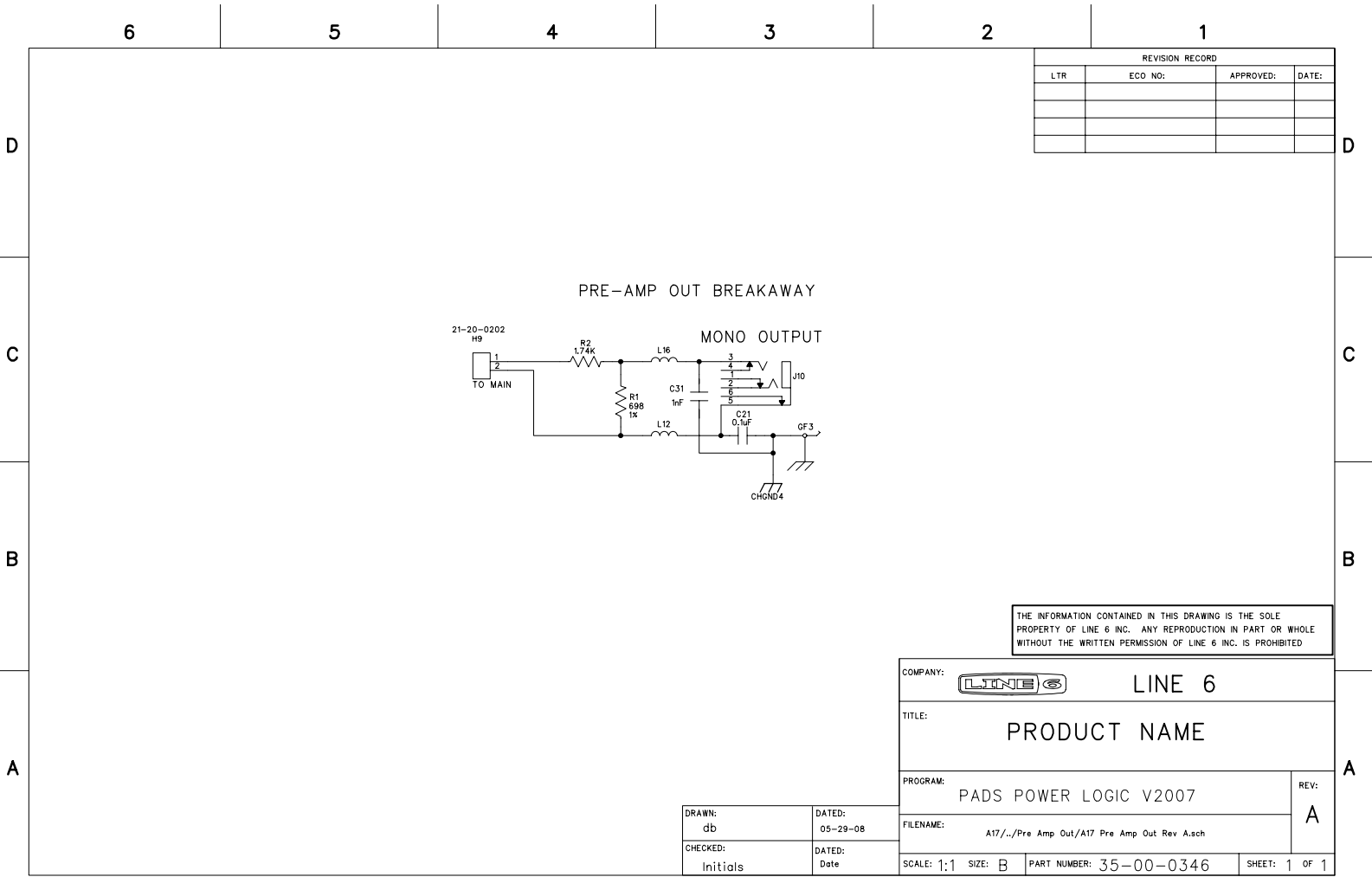


EDS# INCLUDED ON THIS SCHEMATIC/REV REVISION		
EDS#	DATE	DESCRIPTION

COMPANY:		LINE 6	
TITLE: A17 700W Power Supply			
PROGRAM: PADS POWER LOGIC V5.0			REV: D
FILENAME: A17-PS700/Power Supply/A17 PS700 Rev D.sch			
SCALE: 1:1	SIZE: C	PART NUMBER: 35-00-9314	SHEET: 1 OF 1


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DATE: 08-12-2008
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]

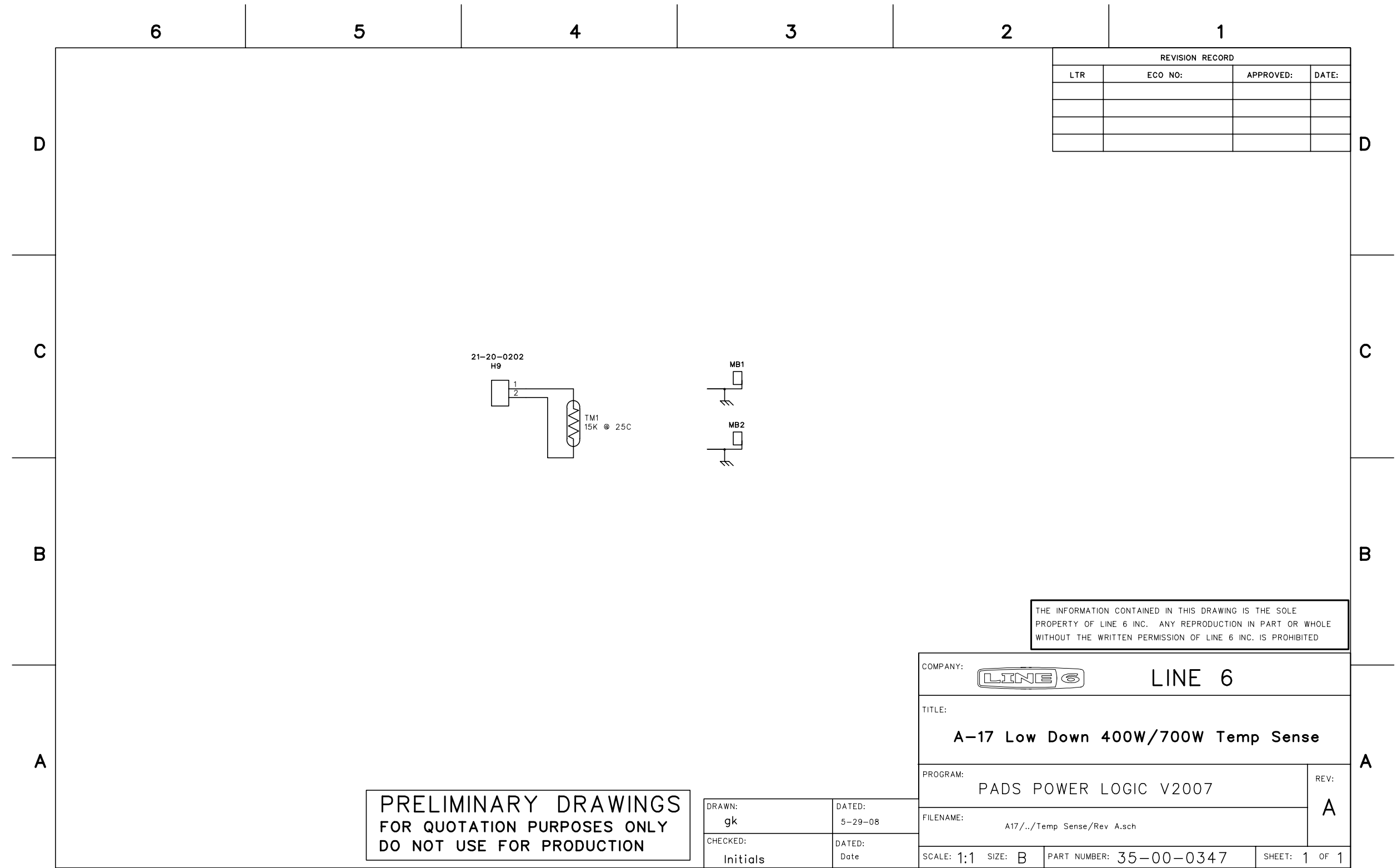


REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

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COMPANY:  LINE 6	
TITLE: PRODUCT NAME	
PROGRAM: PADS POWER LOGIC V2007	REV: A
FILENAME: A17/./Pre Amp Out/A17 Pre Amp Out Rev A.sch	
SCALE: 1:1	SIZE: B
PART NUMBER: 35-00-0346	SHEET: 1 OF 1

DRAWN: db	DATED: 05-29-08
CHECKED: Initials	DATED: Date



REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

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**PRELIMINARY DRAWINGS
FOR QUOTATION PURPOSES ONLY
DO NOT USE FOR PRODUCTION**

DRAWN: gk	DATED: 5-29-08
CHECKED: Initials	DATED: Date

COMPANY: LINE 6	
TITLE: A-17 Low Down 400W/700W Temp Sense	
PROGRAM: PADS POWER LOGIC V2007	REV: A
FILENAME: A17/./Temp Sense/Rev A.sch	
SCALE: 1:1 SIZE: B	PART NUMBER: 35-00-0347 SHEET: 1 OF 1



Engineering

LOW DOWN A17-1, A17-2
POWER SUPPLY PCBA ASSEMBLY NOTES

Rev. B

<u>Revision:</u>	<u>Notes:</u>	<u>Date:</u>	<u>Released By:</u>
A	Initial Release for Beta Build	06/30/08	Josh Forbes
B	Updated Instructions for Rev C. Board	09/03/08	Josh Forbes

!!!!!!CAUTION!!!!!!

**ELECTROSTATICALLY-SENSITIVE PARTS!
WEAR ESD PROTECTIVE CLOTHING!
ASSEMBLE IN AN ESD CONTROLLED
ENVIRONMENT!**

ASSEMBLIES:

PCBA 400W POWER SUPPLY A17-2:

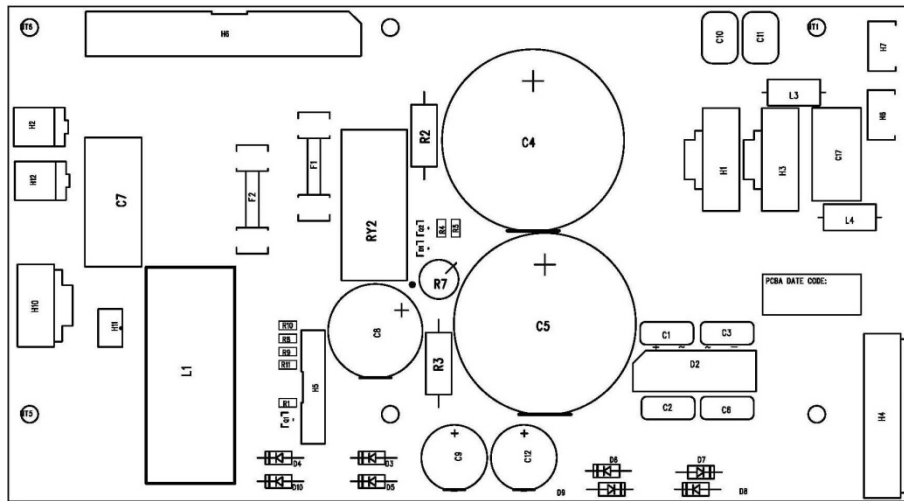
50-02-9313

PCBA 400W POWER SUPPLY A17-1:

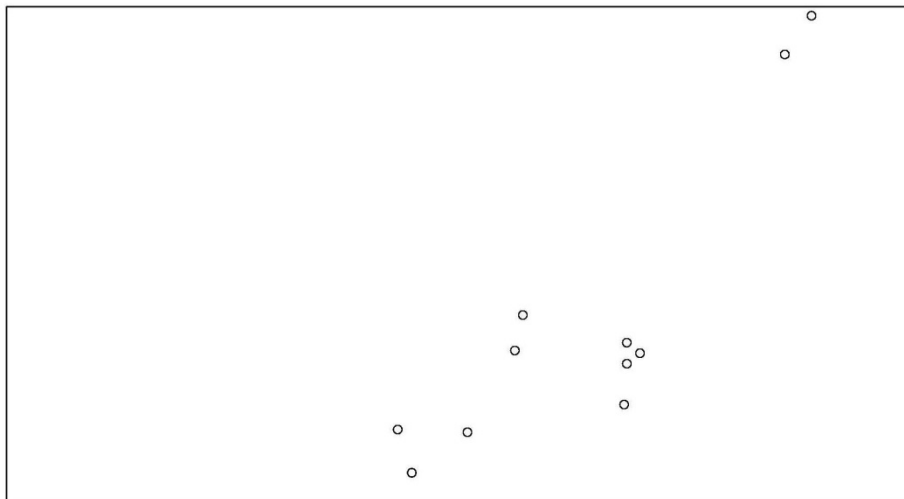
50-02-9313-1

(Refers To PCB, Rev. C 35-00-9313)

COMPONENT SIDE



SOLDER SIDE



1. **“DO NOT INSTALL” COMPONENTS: (FOR A17-1 ONLY)**

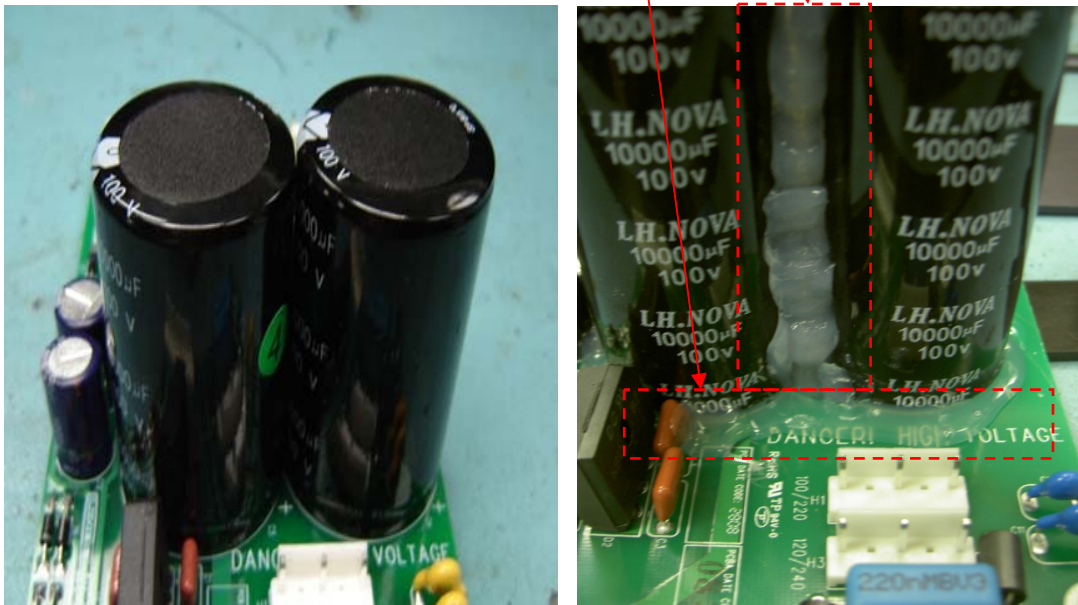
H12

2. **“DO NOT INSTALL” COMPONENTS: (FOR A17-2 ONLY)**

C7, H10, H11, L1

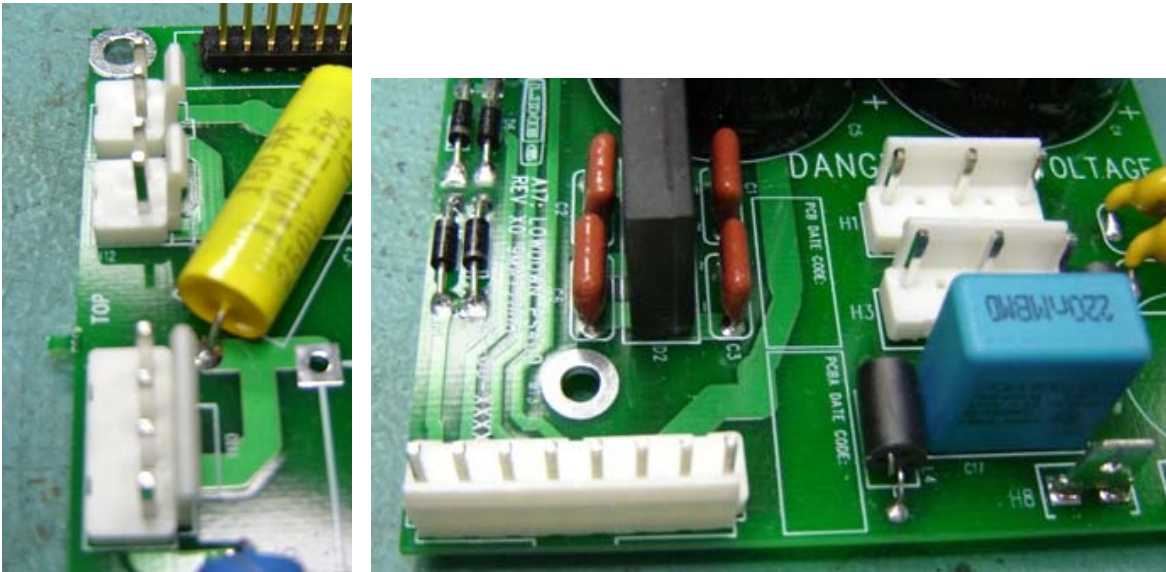
3. **CAPACITORS C4 AND C5:**

C4 and C5 are 100V 10,000uF (P/N: 03-22-0109) capacitors. Mount on the **TOP** side such that their bases are flush with the PCB. Clip leads to 60 thousandths on the **BOTTOM** side. Use RTV to glue these capacitors securely to the PCB and to each other.



4. MOLEX HEADERS:

Install all Molex style headers on the **TOP side of the PCB** such that their bases are flush with the board and lined up with the silkscreen outline within +/-1 degree of accuracy. Headers H2 and H12 are 2-pin headers (P/N: 21-20-1562), H1 and H3 are 3-pin headers (P/N: 21-20-3123), H4 is an 8-pin header (P/N: 21-20-1568), H10 is a 4-pin header (P/N: 21-20-1564).



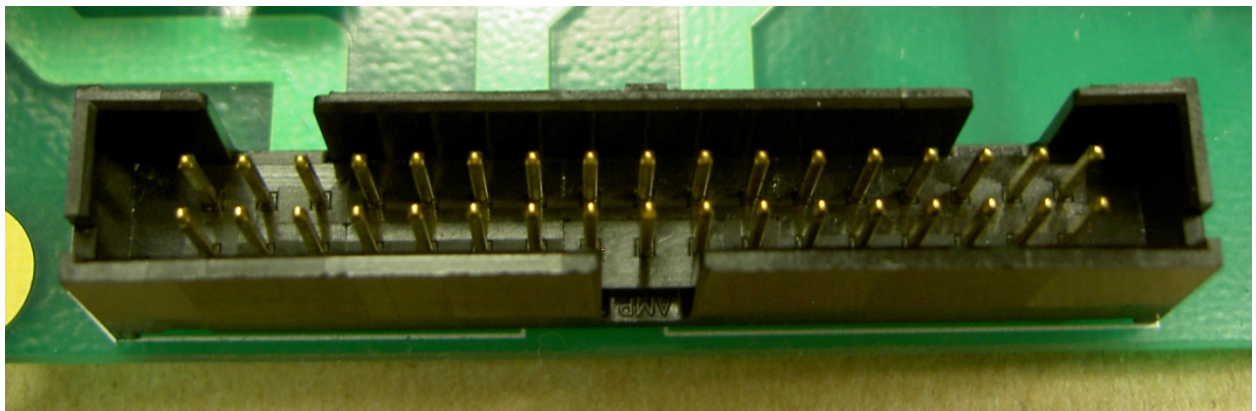
Note:

For A17-1, Do Not Install: H12

For A17-2, Do Not Install: H10 or H11

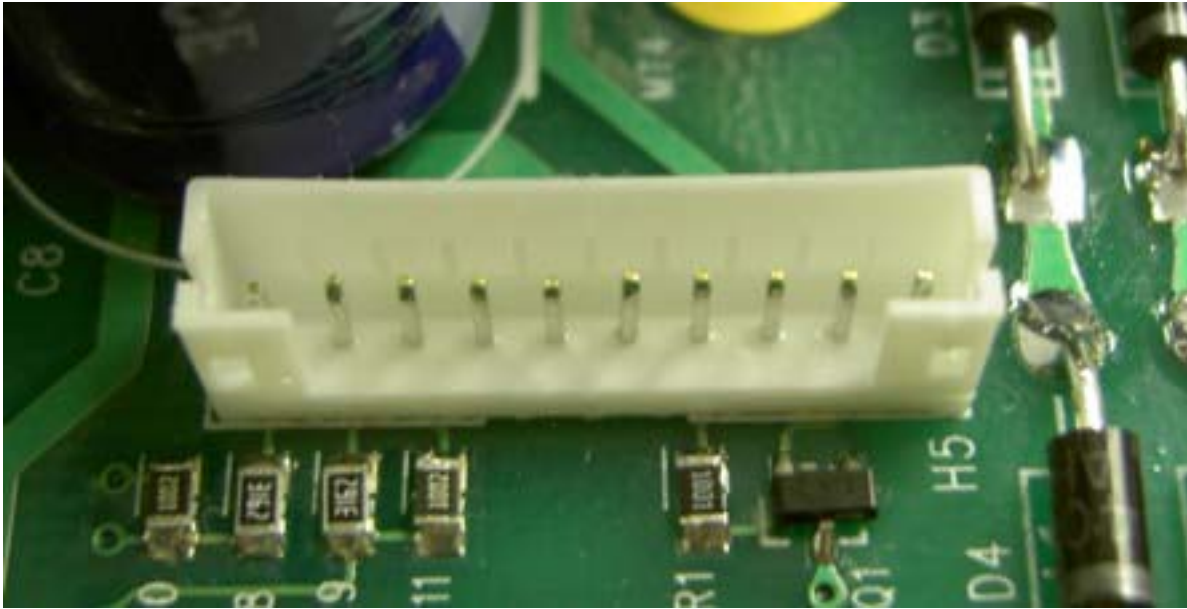
5. RIBBON CABLE HEADER:

Install header H6 (P/N: 21-20-1036) on the **TOP side of the PCB** such that its base is flush with the board and lined up with the silkscreen outline within +/-1 degree of accuracy.



6. **10-PIN IN LINE HEADER:**

Install H5 (P/N: 21-20-0210) on the **TOP side of the PCB** such that its base is flush with the board and lined up with the silkscreen outline within +/-1 degree of accuracy.



7. **UPRIGHT RESISTOR:**

Install R7 (P/N: 01-22-0202) such that it stands upright (see picture). Make sure that the body of the resistor lies within the circular outline on the PCB. Solder and clip leads to 60 thousandths on the **BOTTOM** side.



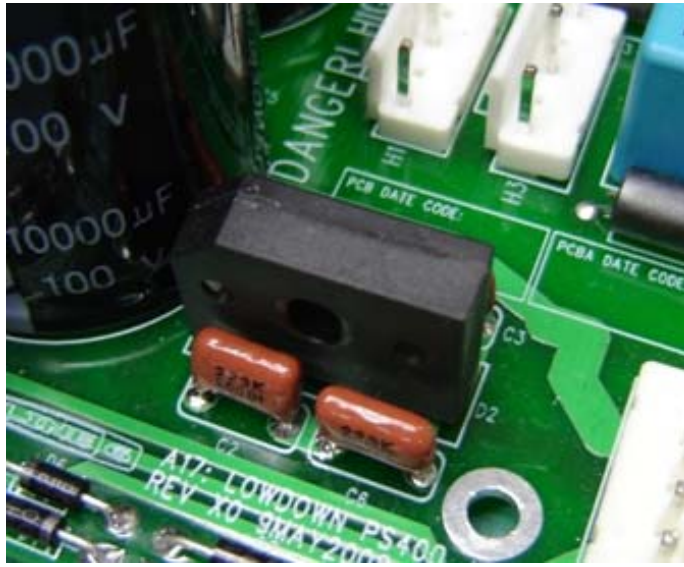
8. FERRITES:

Install ferrites L3 and L4 (P/N: 11-10-2020) flush with the TOP of the PCB. Solder and clip leads to 60 thousandths on the **BOTTOM** side.



9. BRIDGE RECTIFIER:

Install Bridge Rectifier D2 (P/N: 06-16-0008) on the **TOP** side of the PCB such that the notched side of the component corresponds with the notched edge of the silkscreen. The component is to be flush with the PCB and aligned with the silkscreen to within +/-1%. Solder and clip leads to 60 thousandths on the **BOTTOM** side.



10. **RELAY:**

Install relay RY2 (P/N: 24-15-0008) such that it is flush with the PCB and aligned with the silkscreen outline to +/- 1% of accuracy.



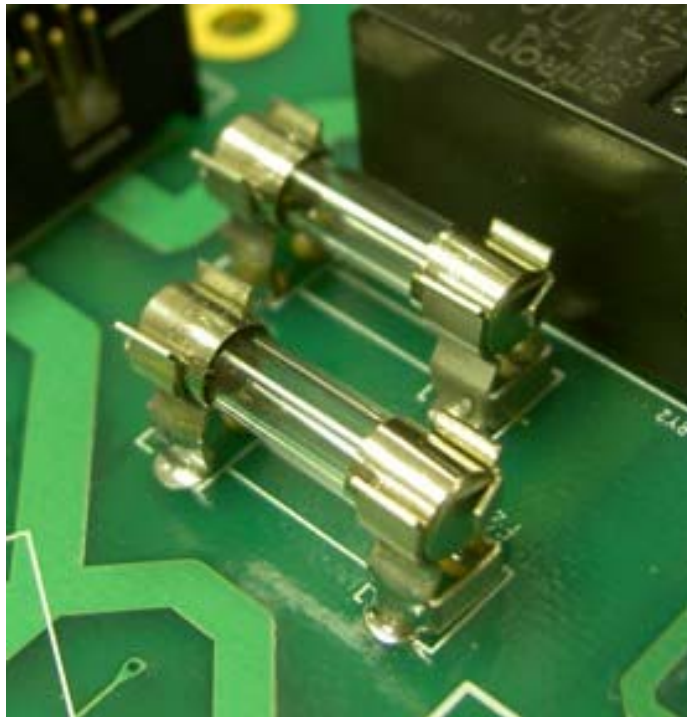
11. **FUSE HOLDERS:**

Install fuse clips F1 and F2 (P/N: 21-48-9521, Quantity: 4) on the **TOP** side of the PCB as shown below. Make sure that the base of the clips are flush with the PCB.



12. **FUSES:**

Install fuses F1 and F2 (P/N: 24-19-6325) into the fuse clips as shown below.



13. **AC VOLTAGE IN CONNECTOR TABS:**

Connector Tabs H7 and H8 (P/N: 21-18-0250) are to be installed on the **TOP** side of the PCB such that they stand perpendicular to the PCB.

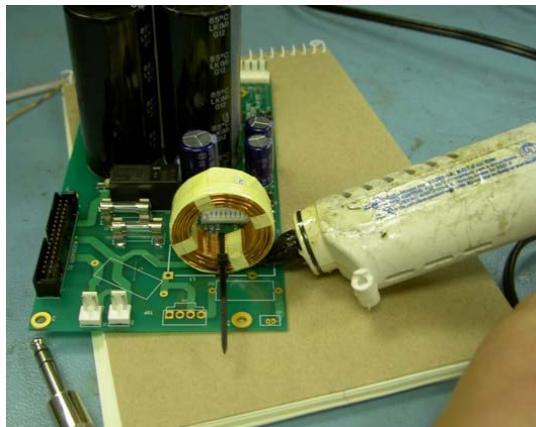
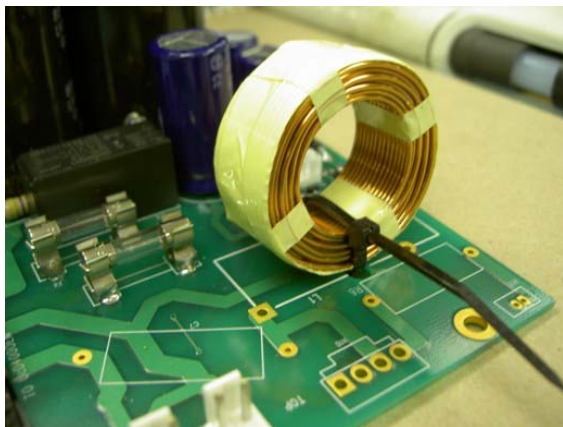


14. LOW DOWN 400 PRO A17-1 PASSIVE CROSSOVER

THE FOLLOWING INSTRUCTIONS APPLY ONLY TO A17-1!!

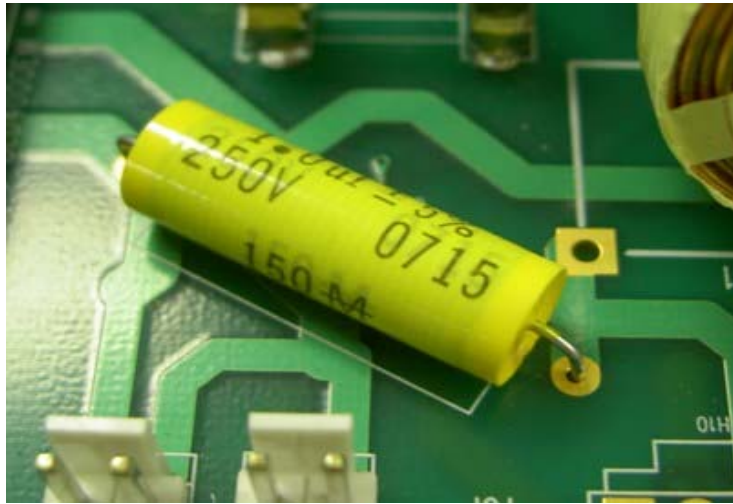
14A) INDUCTOR L1

Install inductor L1 (P/N: 04-00-0332) on the **TOP** side of the PCBA. Solder the leads to the PCBA such that the inductor is flush with the PCBA and stands upright. Clip leads to 60 thousandths on the **BOTTOM** side. With the inductor soldered in place, secure it to the PCB using a cable tie (as shown below) and clip off the excess cable tie. Now, apply RTV to the base of the inductor to fix it to the PCB (as shown below).



14B) CAPACITOR C7

Install capacitor C7 (P/N: 03-24-3105) flush with the **TOP SIDE** of the PCB such that the body of the cap lies within the outline of the silkscreen decal. Solder and clip leads to 60 thousandths on the **BOTTOM** side.



- END OF PCB SPECIAL ASSEMBLY NOTES -



Special Notes

These instructions describe the electro-mechanical assembly of a complete A17-3 Low Down HD700 Pro assembly (P/N 50-04-0700).

A note on the text: the illustrations in this book are for reference only. In some cases, color and geometry of illustrations may not accurately reflect the color or exact geometry of actual parts.

- Unless otherwise noted, all dimensions are in inches.
- Part identifying notes are in this format: Description (Part Number)
- Drawings are not to scale.
- Torque value tolerance +/- .5 in.-lbs. Do not over tighten any components.

For clarity, not all component details are shown. This is especially true with respect to cable assemblies. They are often omitted from views to provide a clearer picture of the material discussed. Do not be confused by the absence (or unexpected presence) of any component in the illustrations in this book.

Use appropriate ESD precautions, when assembling Printed Circuit Boards.



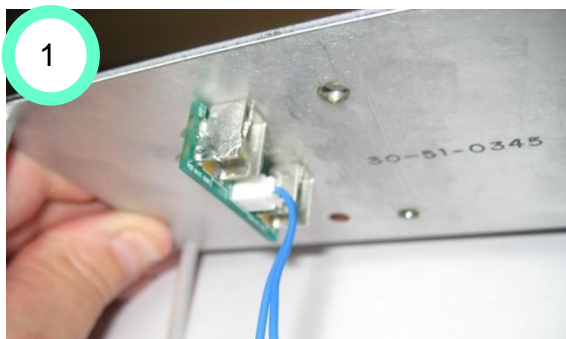
Revision Comment Sheet

Revision	Changes
A	Initial release – ECO # 0821804 Update AU Transformer description.
B	ECO # 0824603 - Add Loctite Threadlocker. Pages 5, 7, 21. Add Bracket & chassis mounting screws pages 37,38, 39.

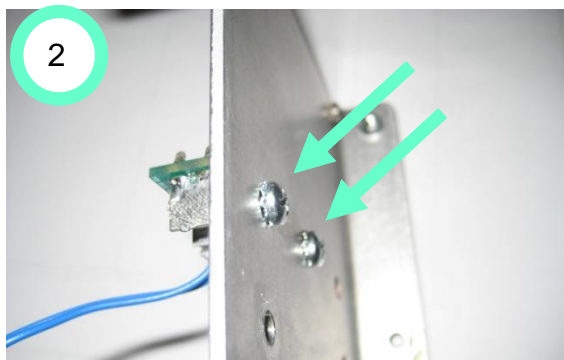
STEP 1: Power Amp module to Heat Sink assembly

Parts required:

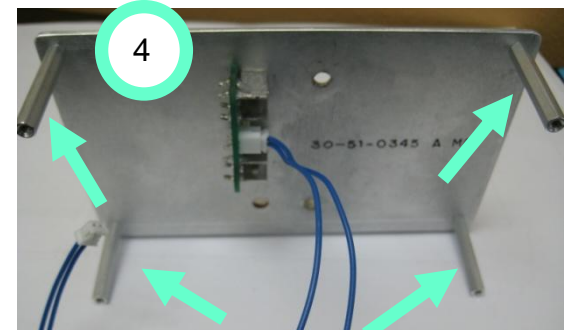
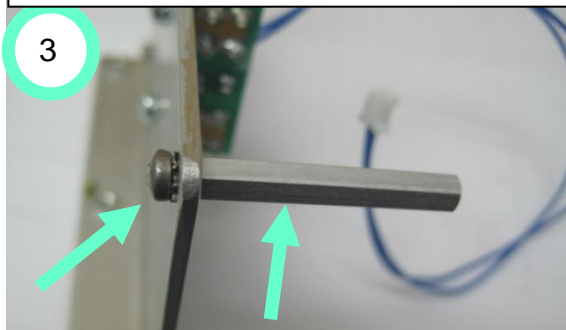
Parts	P/N	DESCRIPTION	QTY
1	30-00-0043	Screw 6-32 x 5/16 W/Lk washer PPZ STL	2
2	30-00-0163	SCREW M3 X 8MM PHILLIPS PAN W/EXT SEMS SS	8
3	30-12-2213	STANDOFF HEX 4.5MM X 31MM L, M3 AL	4
4	30-51-0345	HEATSINK POWER AMP A17-3	1
5	50-02-9316	POWER AMP MODULE 700W HYPEX A17-3	1
6	30-51-6015	HEAT SINK 3.3"x6.75"x.12" ALUMINUM	1
7	50-02-0347	PCBA TEMP SENSE LOW DOWN A17-3	1
8	30-00-0153	Screw M4 x 10MM Hex Socket HD Cap	2
9	21-34-0008-3	CABLE SIL 4PIN 8"L	1
10	21-34-0076-6	CBL SIL 2 COND 26AWG 10" BLUE	1
11	21-36-0270-4	CABLE 4 COND 18AWG TWISTED PAIR 8"/8"	1
12	n/a	Thermal Grease	
13	n/a	Threadlocker, Loctite 246 or Equivalent.	



1. Assemble PCBA Temp Sens 50-02-0347 to Heatsink 30-51-0345, orientation as shown. Apply Thermal grease to mating surfaces.

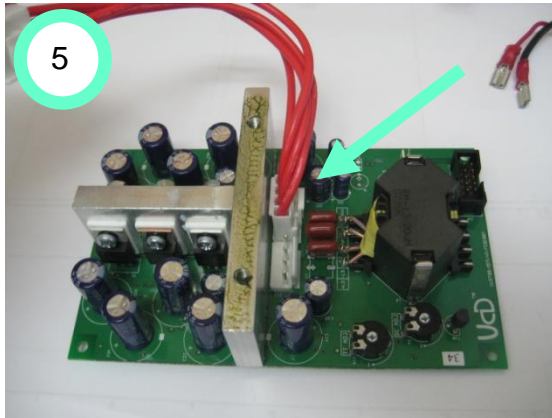


2. Use (2) Screws 30-00-0043, to mount the Temp Sense PCBA to Heatsink. Torque 6-8in/lbs..

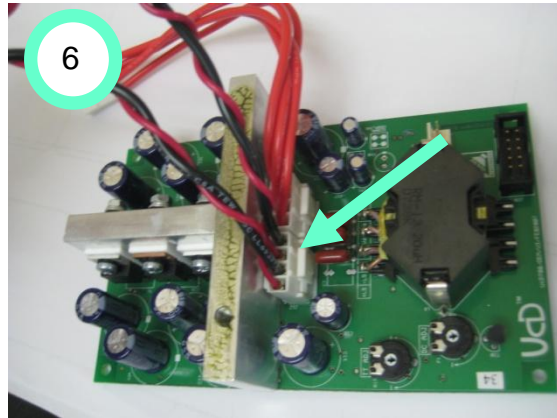


3,4. Assemble (4) Stand-offs 30-12-2213, using (4) Screws 30-00-0163 onto the heatsink 30-51-0345, as shown. Apply Threadlocker 246 to screws. Torque 6-8 in/lbs.

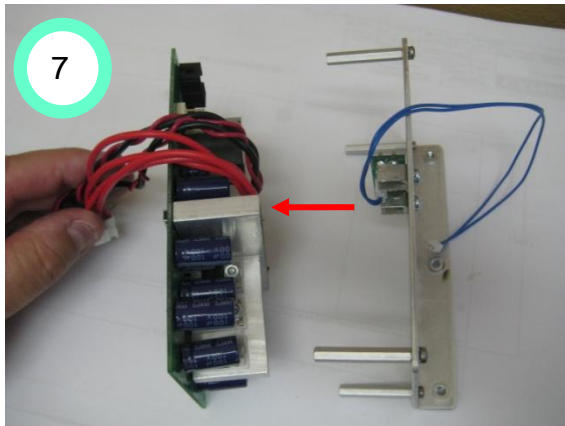
STEP 1 continued:



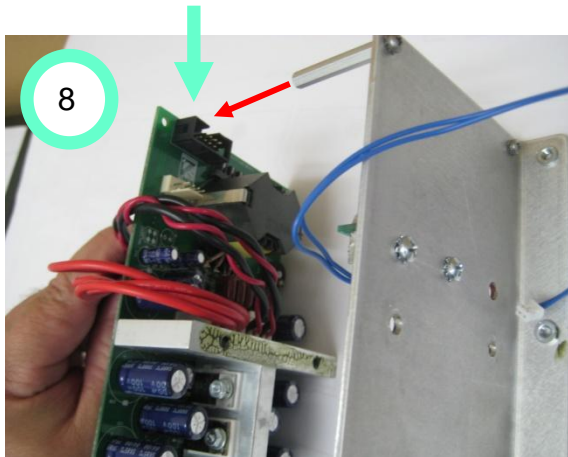
5. Insert Cable (21-34-008-3), into Power Amp PCBA 50-02-9316 as shown.



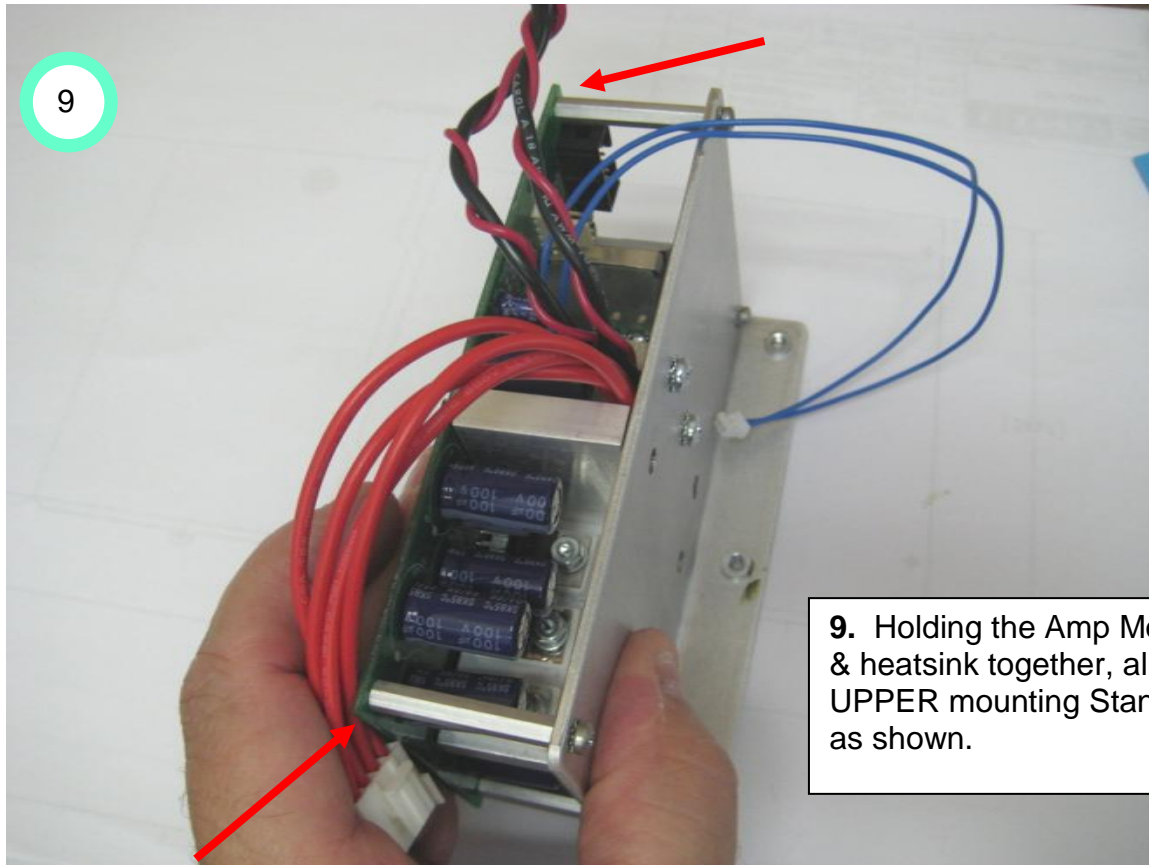
6. Insert Cable (21-36-0270-4), into Power Amp PCBA 50-02-9316 as shown



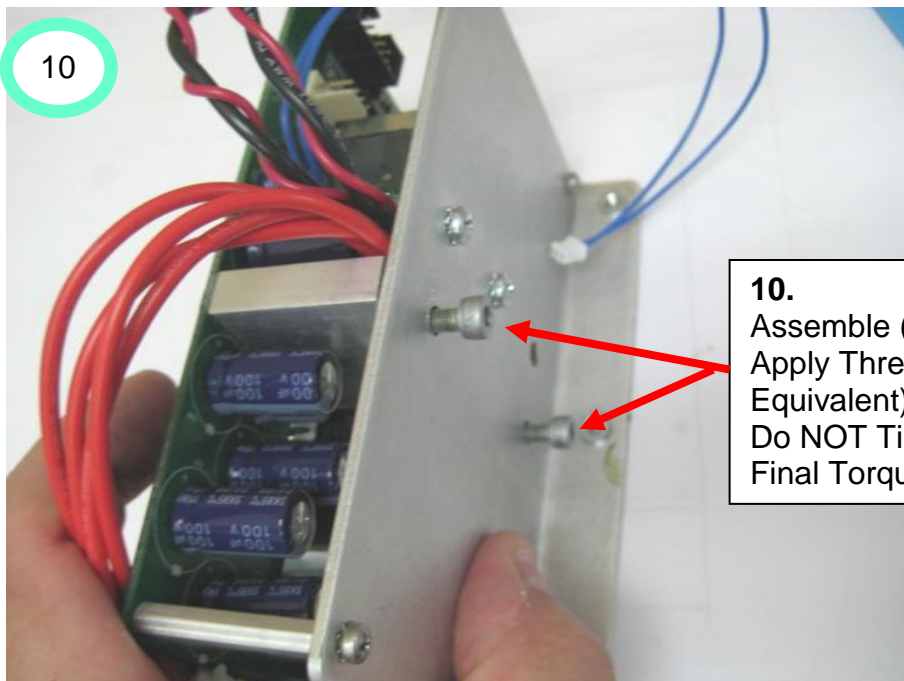
7. Apply Thermal grease to the Power amp module 50-02-9316 heatsink, as shown.



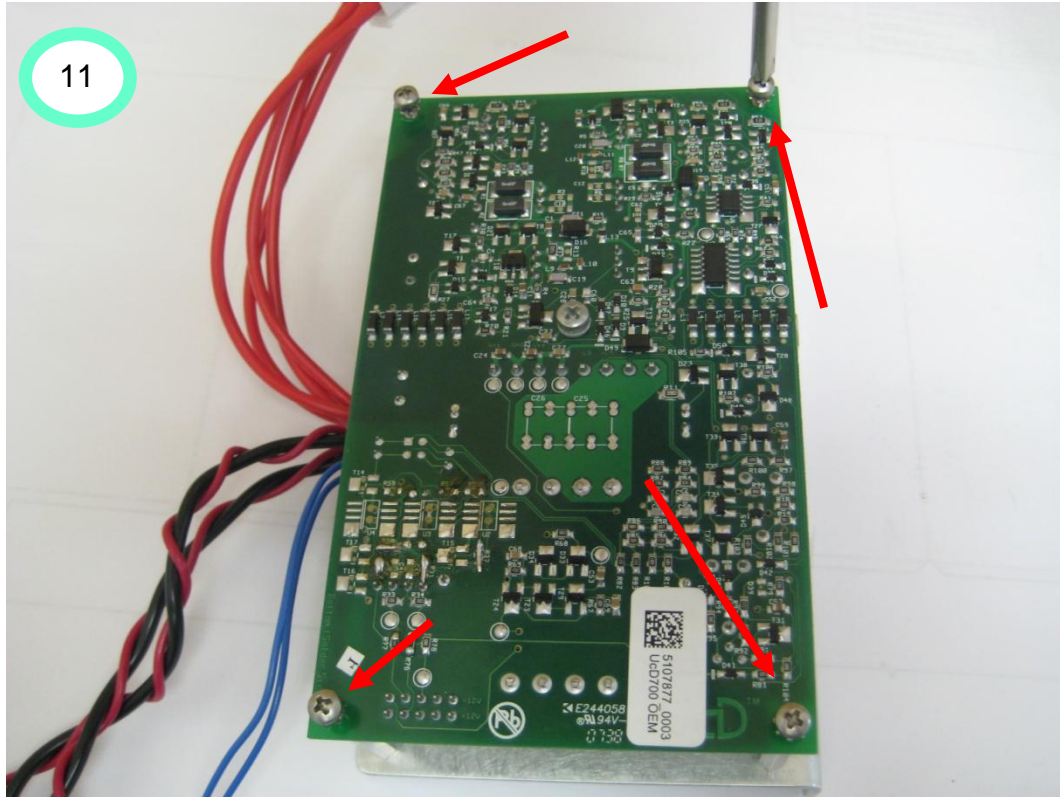
8. Holding the Amp Module & heatsink, in this orientation, align the Standoffs as shown.



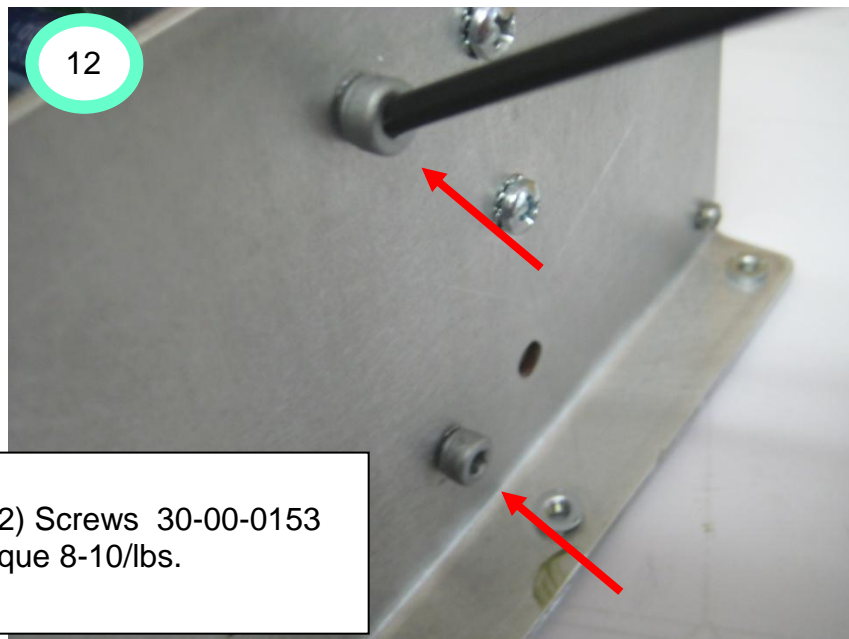
9. Holding the Amp Module & heatsink together, align the UPPER mounting Standoffs as shown.



10. Assemble (2) Screws 30-00-0153 Apply Threadlocker (Loctite 246 or Equivalent). Do NOT Tighten. Final Torque 8-10/lbs.



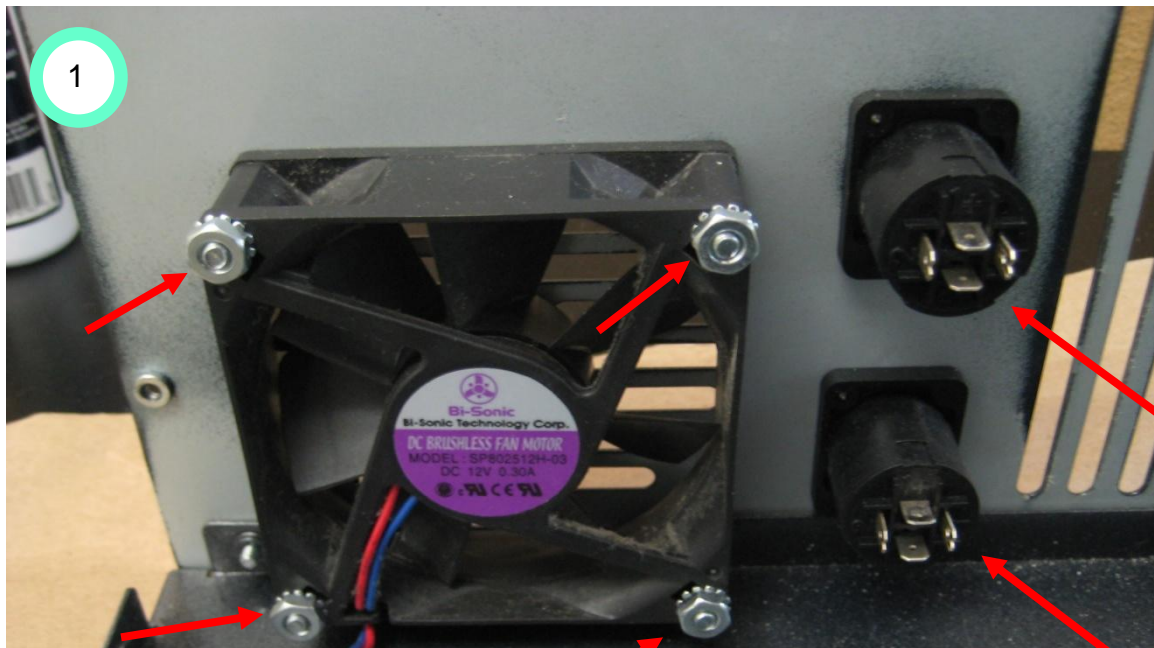
11.
Assemble (4) Screws 30-00-0163 thru Power Amp PCBA into Standoffs. Apply Threadlocker 246 to screws. Torque 6-8/lbs



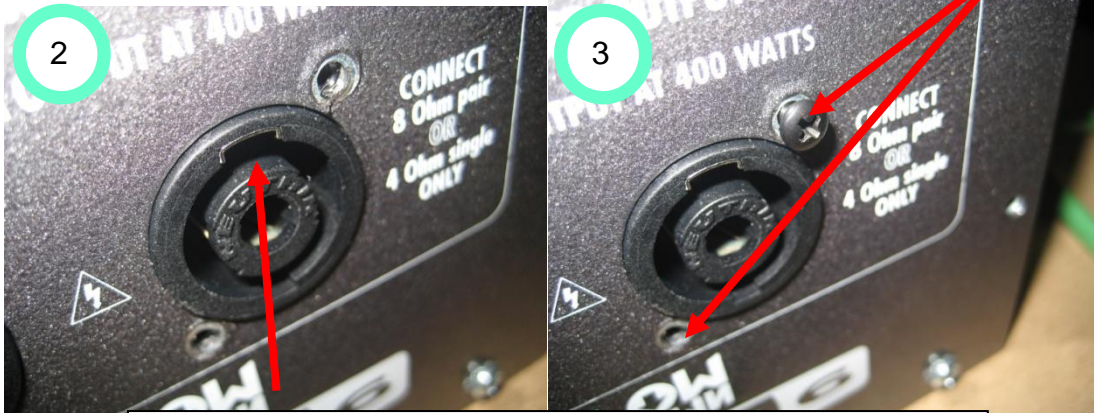
12.
Tighten (2) Screws 30-00-0153 Final Torque 8-10/lbs.

STEP 2: Back Panel Assembly.

Parts	P/N	DESCRIPTION	QTY
1	11-50-0813	FAN 12V DC 25MM X 80MM X 80MM	1
2	21-14-0002	JACK IEC w/FUSE MALE 3 PIN PAN EL MOUNT SNAP IN VERT	1
3	24-24-0607	SWITCH POWER ROCKER 6A/250V 10 A/120V w/O OFF CAP PRINT	1
4	30-00-0042	SCREW SHEET METAL 4 x 0.375 IN SELF-TAP PPB	4
5	30-51-0347	PANEL BACK 700W A17-3	1
6	30-00-0375	Screw 6-32 x .375 PPB	3
7	30-00-0079	SCREW 8-32 X 1.25" PHILLIPS PH BLK	4
8	30-06-0832	NUT .335 HEX 8-32 STL ZINC W/TOOTH WASHER	4
9	21-19-0002	CON NEUTRIK SPEAKON NL4MP-3	2
10	n/a	Threadlocker (Loctite 246, 222 or equivalent)	



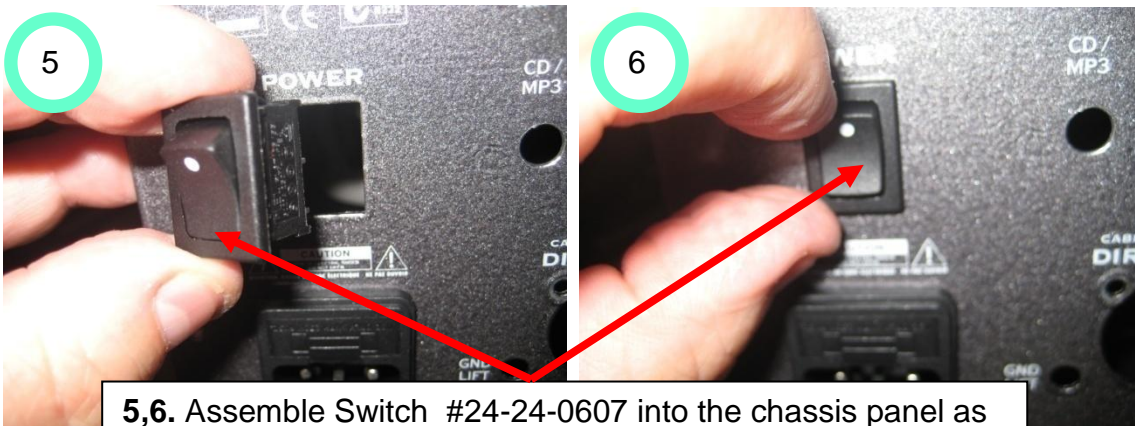
1. Assemble Fan (11-50-0813) to Back Panel (30-51-0347), using (4) Screws 30-00-0153. Apply Threadlocker (Loctite 222 or equivalent) to the Nut threads. Final Torque 8-10/lbs.
 * Photo shows Speakon connectors assembled 21-19-0002.



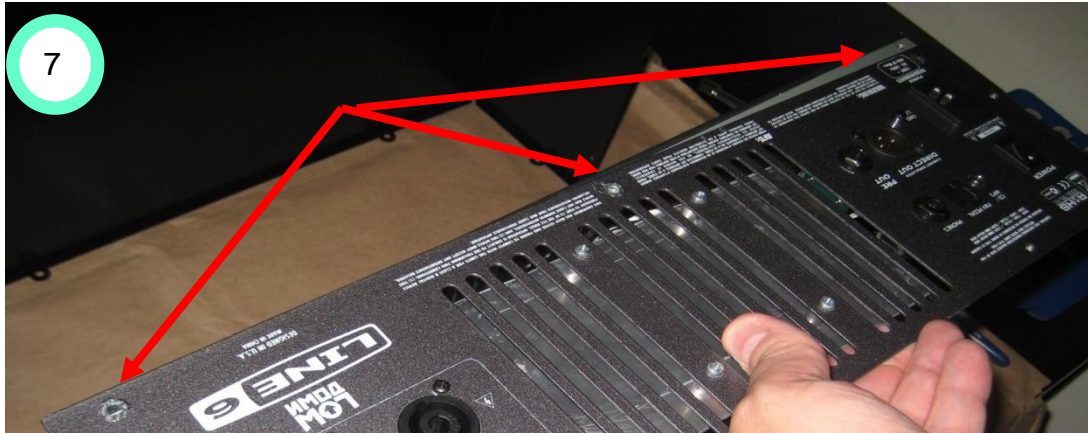
2,3. Assemble 2 Speakon connectors (21-19-0002) into Back chassis panel as shown. Use 2 Screws 30-00-0042 per connector, to assemble. Use Torque 6-8 in/lbs.



4. Assemble IEC connector #21-14-0002 into the chassis panel as shown. Connector should snap into place. Make sure it is fully seated.

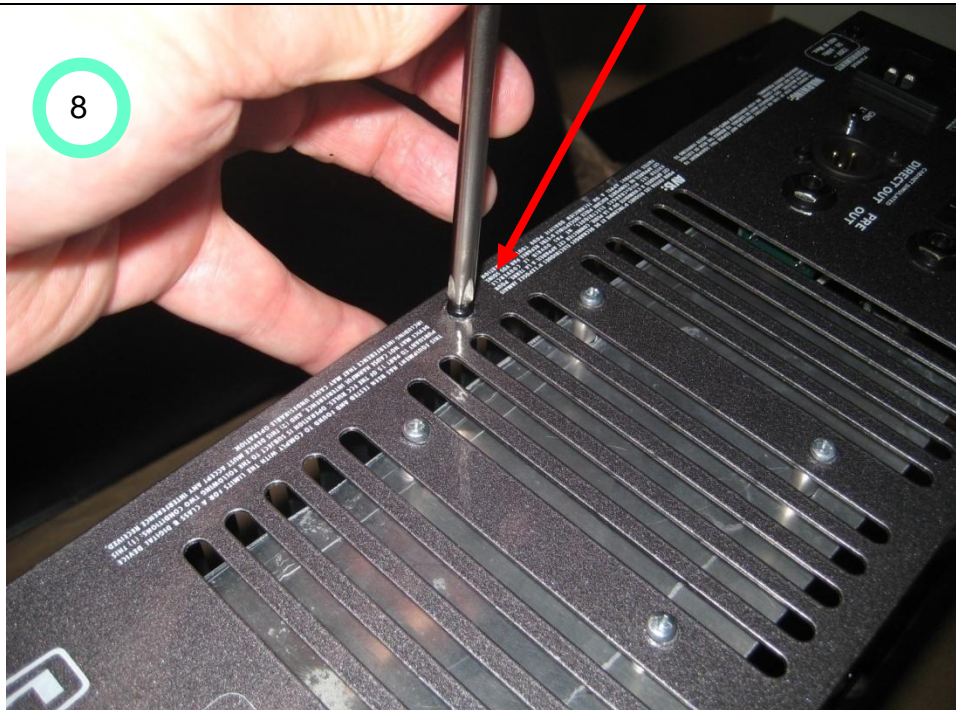


5,6. Assemble Switch #24-24-0607 into the chassis panel as shown. Make sure that the White dot is toward the TOP. Switch should snap into place. Make sure it is fully seated.



7,8. Align Back Panel 30-51-0347 with the Chassis 30-51-0342, and assemble with 3 Screws 30-00-0375, in places shown. Apply Threadlocker 246 to ends of the screws prior to assembly.
Torque 8-10 in/lbs

8. Assemble Back Plate with 3 Screws 30-00-0375, Torque 8-10 in/lbs



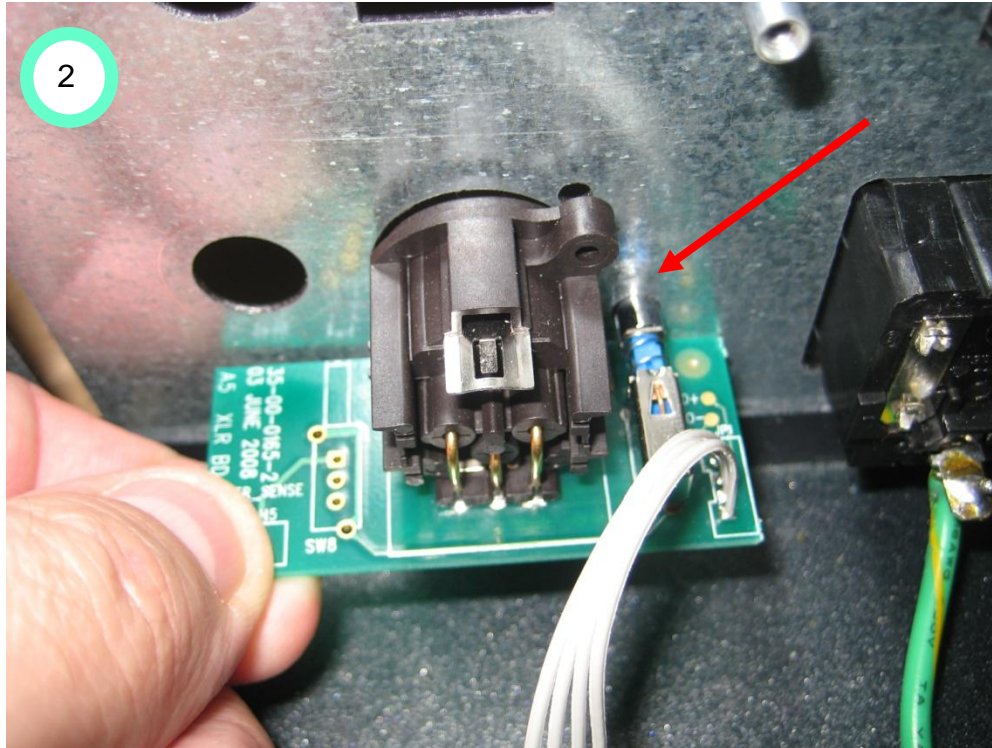
STEP 3: Rear Panel PCBA assembly.

Parts required:

# Parts	P/N	DESCRIPTION	QTY
1	50-02-0345-2	PCBA DIRECT OUT LOW DOWN A17-2 A17-3	1
2	50-02-0346	PCBA PRE-AMP OUT LOW DOWN A17	1
3	50-02-0345-3	PCBA HEADPHONE/PEDAL LOW DOWN A17-2 A17-3	1
4	30-00-0042	SCREW SHEET METAL 4 x 0.375 IN SELF-TAP PPB	2
5	30-00-0404	SCREW 4-40 x .250 LG PHILLIPS PNH STL ZINC	1
6	30-15-0004	SPACER .13THKx.63OD NYLON	2



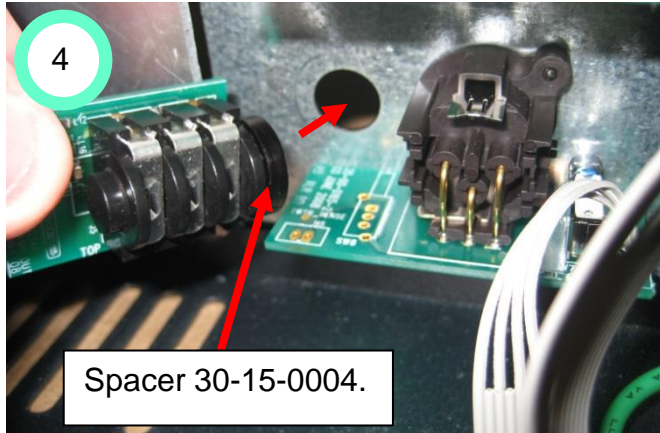
1. Align PCBA Direct Out (50-02-0345-2) with Back Panel with the Chassis 30-51-0343 as shown (next to IEC Connector).



2. Make sure that the Ground Lift switch is centrally guided through the rear panel hole.



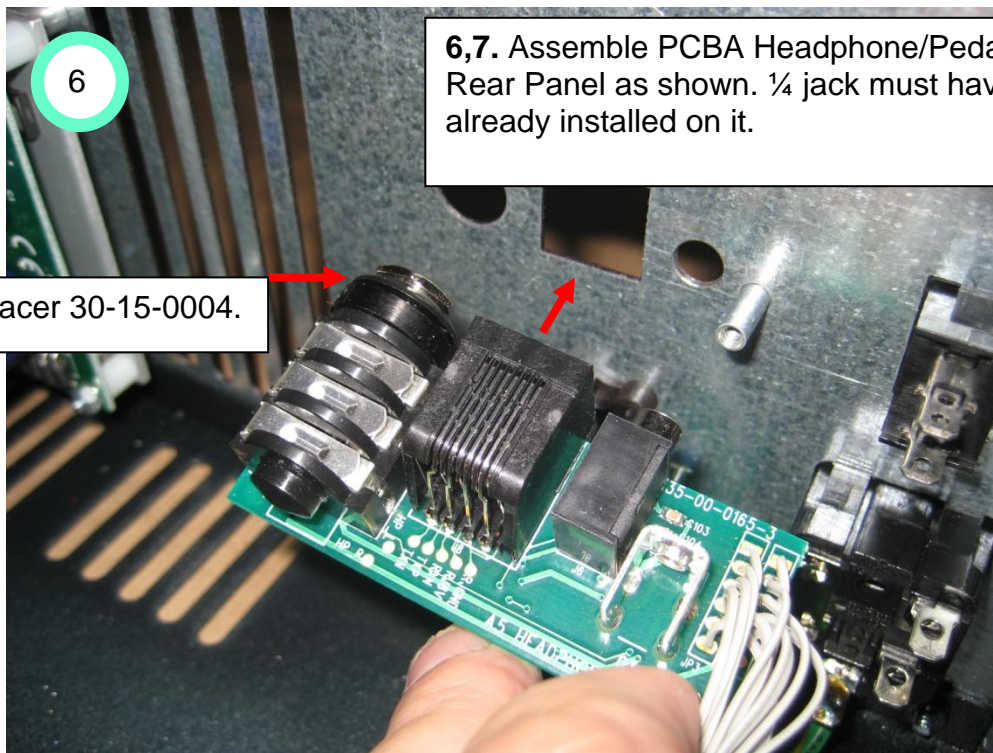
3. Assemble using 2 Screws 30-00-0042 as shown. Torque 6-8 in/lbs.. Test that the Ground Lift switch does not rub against the metal chassis.



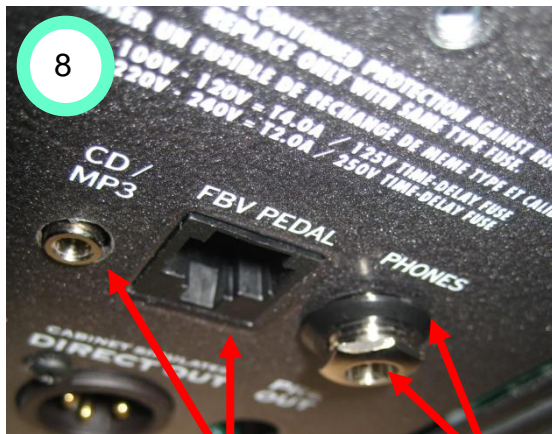
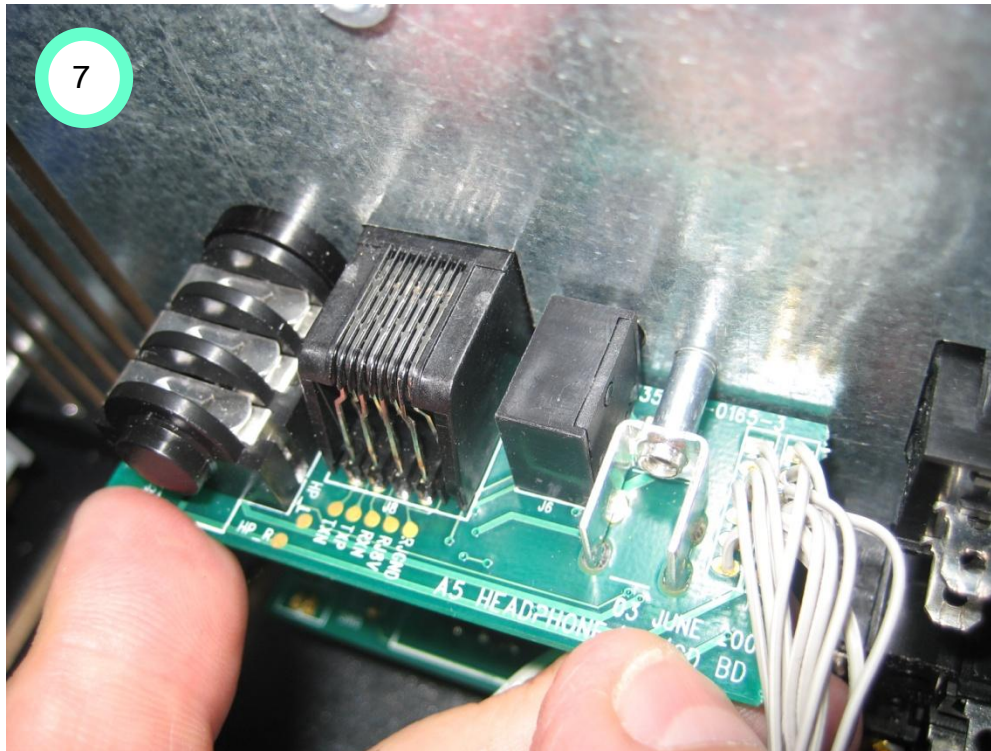
4. Assemble PCBA Pre Amp Out 50-02-0346, in the position shown, with Spacer 30-15-0004, thru the Panel Rear.



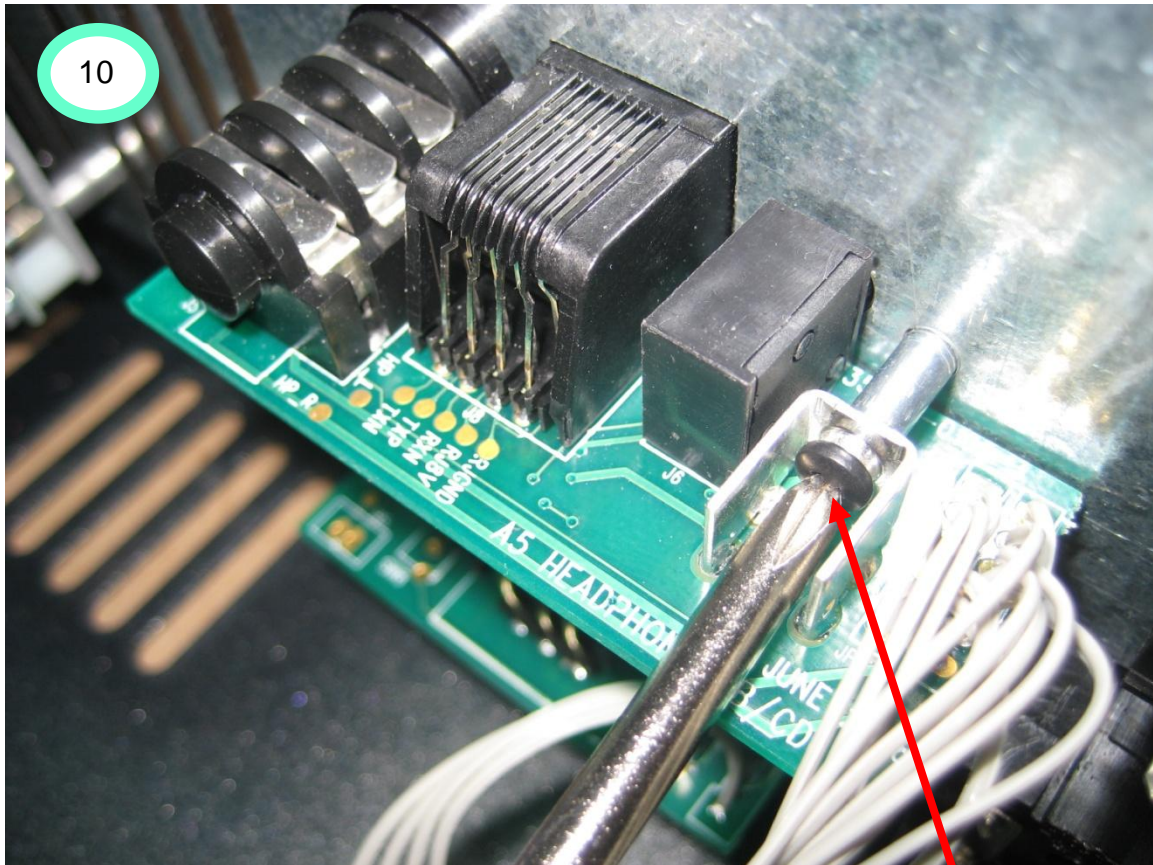
5. Holding the Pre Amp Out PCBA vertically, assemble using Black Finishing Washer & Chrome Nut (supplied with jack). Torque 5-6 in/lbs..



6,7. Assemble PCBA Headphone/Pedal 50-02-0345-3, into Rear Panel as shown. ¼ jack must have Spacer 30-15-0004 already installed on it.



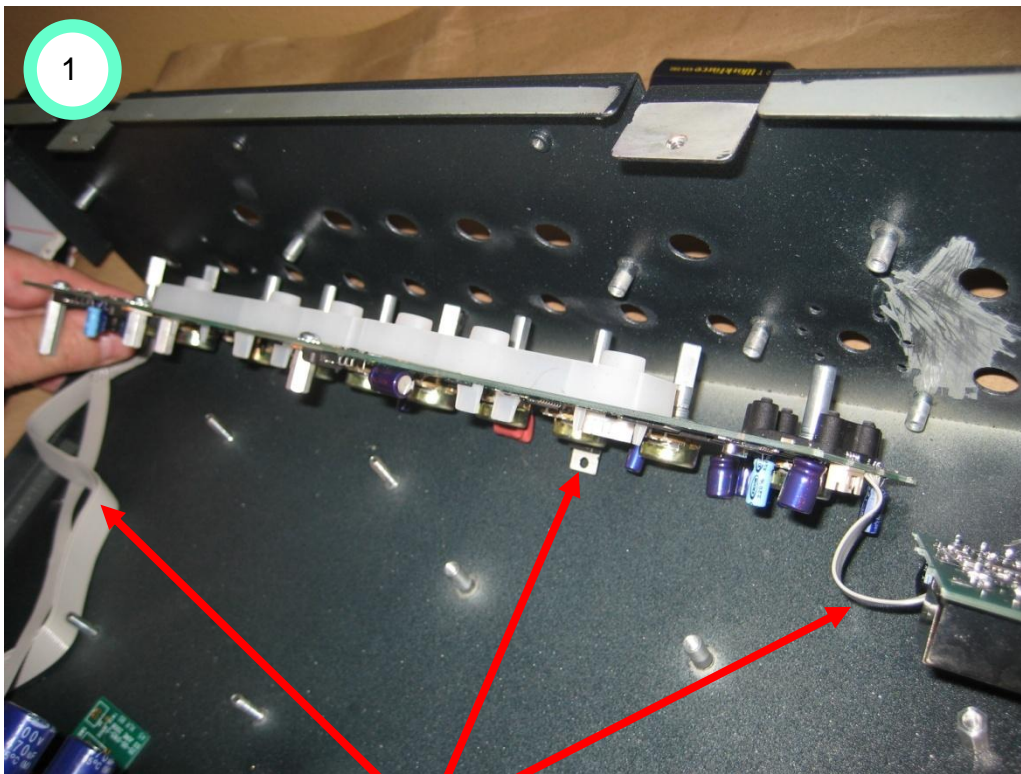
8,9. Check that the pedal jack & CD Jack are properly aligned thru the chassis. Assemble Black finishing washer & Chrome Nut (supplied with jack) as shown. Torque 5-6 in/lbs



10. Assemble 1 Screw 30-00-0404 thru the PCB bracket as shown. Apply Threadlocker 222 to head of screw.
Torque 6-8 in/lbs

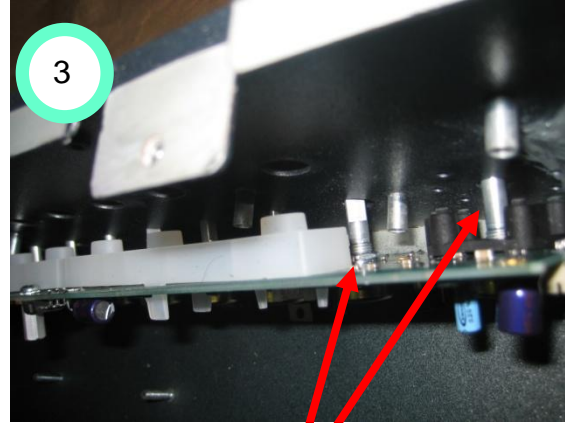
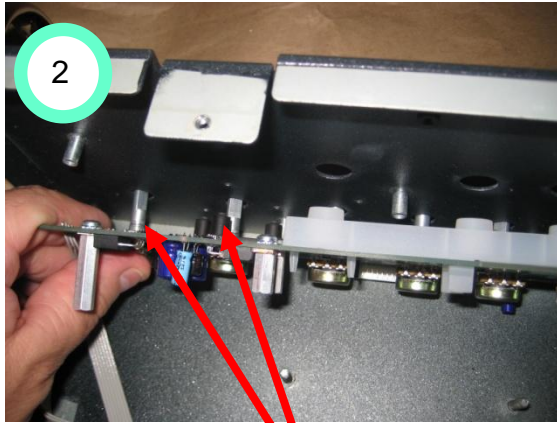
STEP 4: Front Panel PCBA assembly.

#Parts	P/N	DESCRIPTION	QTY
1	50-02-0345	PCBA Main Low Down HD400/HD750 A17-2, A17-3	1
2	30-00-0043	SCREW 6-32 x 5/16 w/LK WASH PPZ STL	10
3	30-15-0004	SPACER .13THKx.63OD NYLON	2



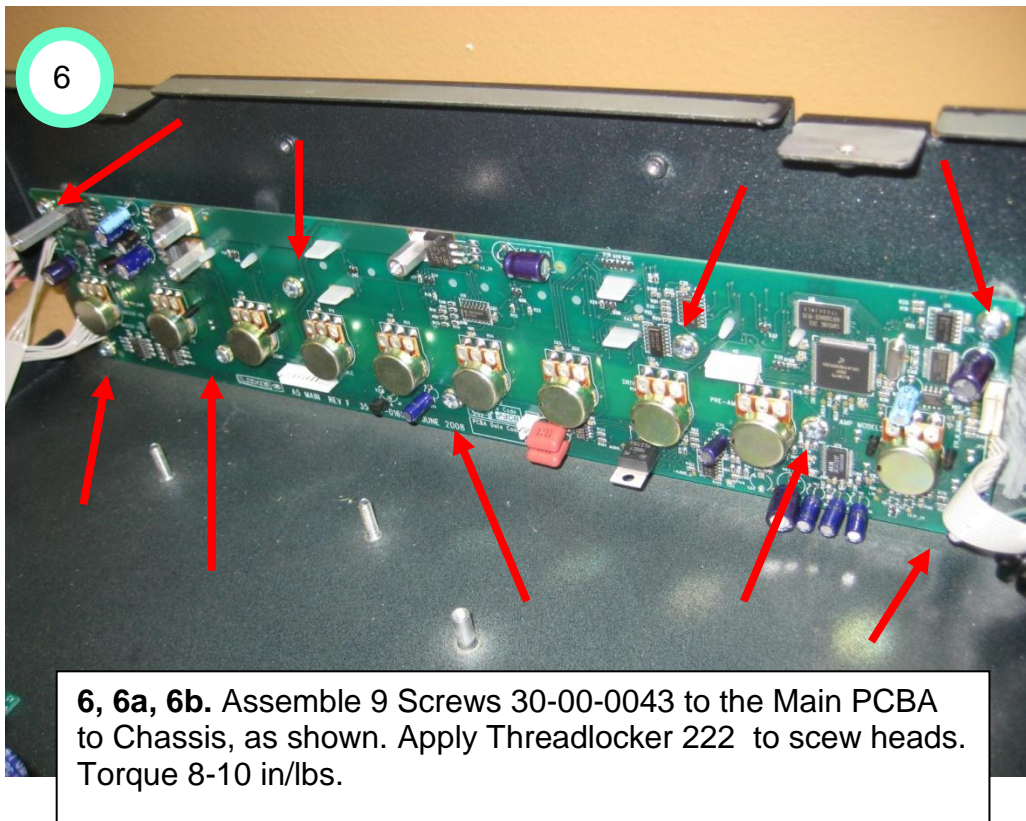
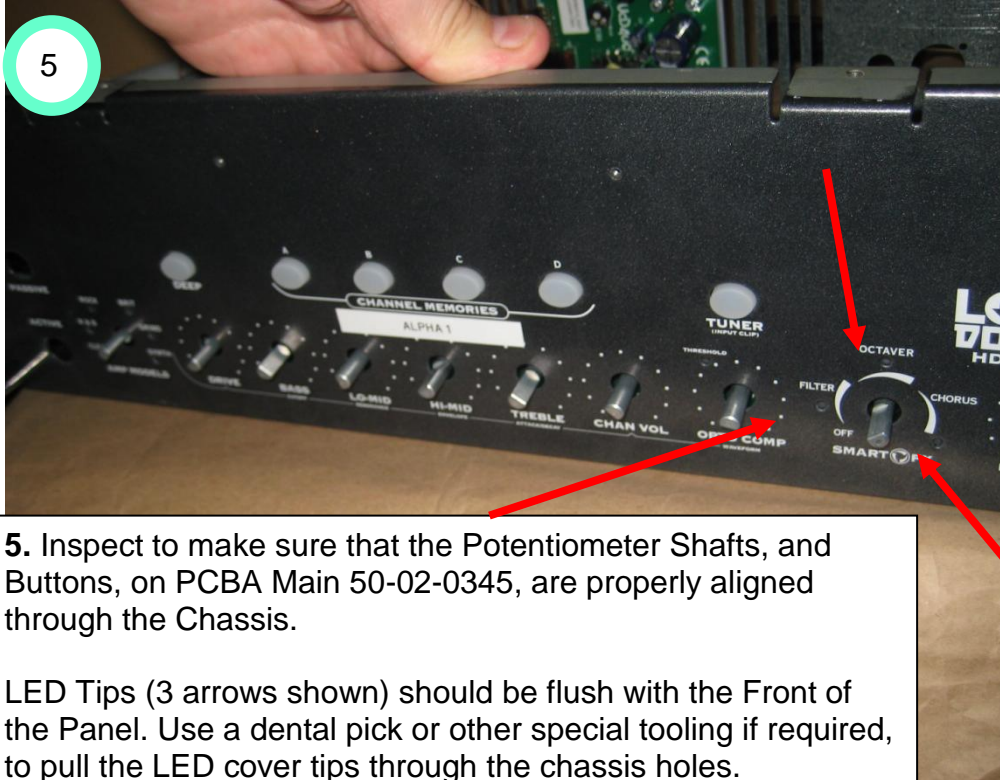
1. PCBA Main 50-02-0345 in position for assembly.

Take special care with the connected cables to the Rear Panel PCBA's.



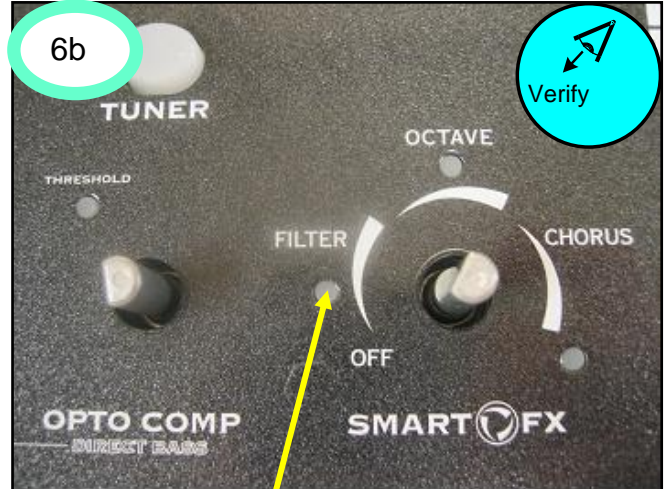
2,3,4. Make sure that the Potentiometer Shafts, on PCBA Main 50-02-0345, are carefully guided through the correct holes in the Chassis.
Hold PCBA in place, ready for mounting screws.



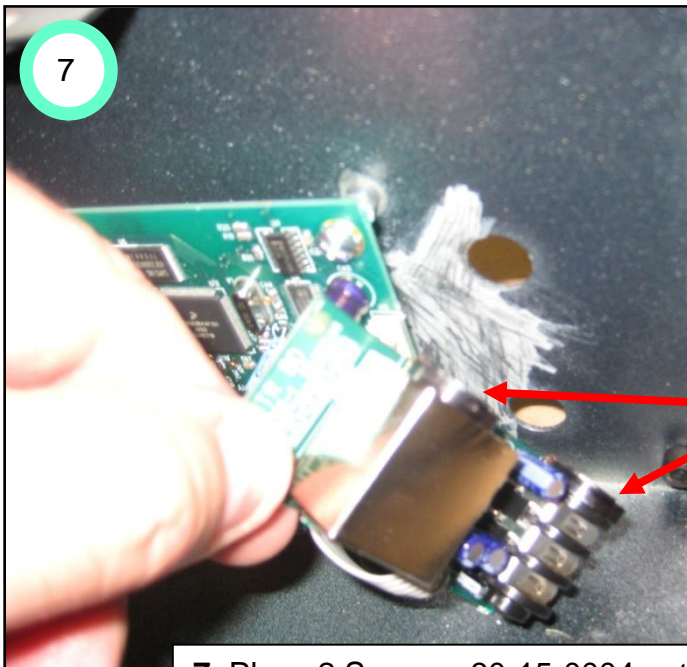




LED cover tips flush with front surface of metal (6 PL)

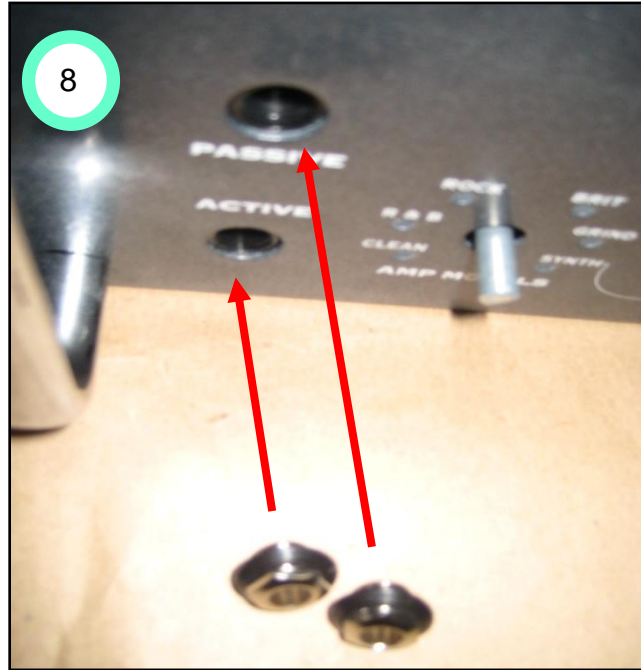


LED cover tips flush with front surface of metal (4 PL)



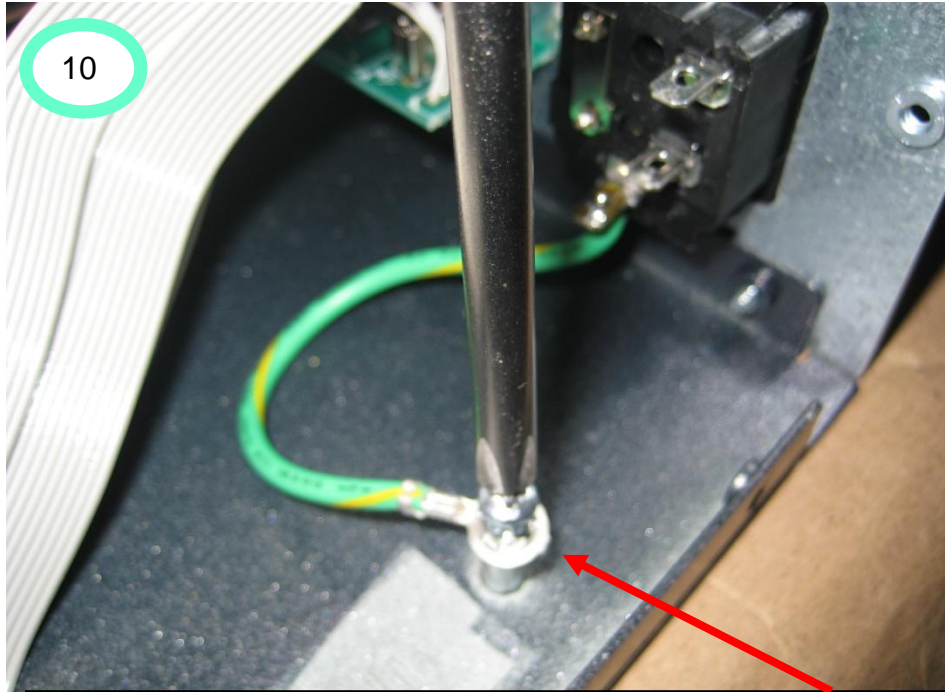
2 Spacers 30-15-0004

7. Place 2 Spacers 30-15-0004 onto the Jacks, and assemble Guitar Input PCBA 50-02-0345-1 to Chassis, as shown, with the PCB facing the Main PCBA side.



8,9. Assemble 2 Black finishing washers & 2 Chrome Nuts (supplied with jack) as shown Torque 8-10 in/lbs.

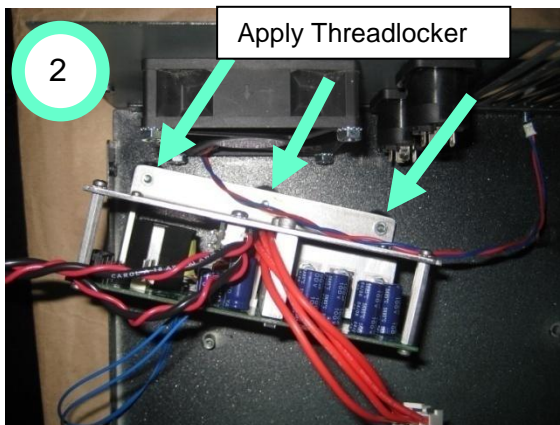
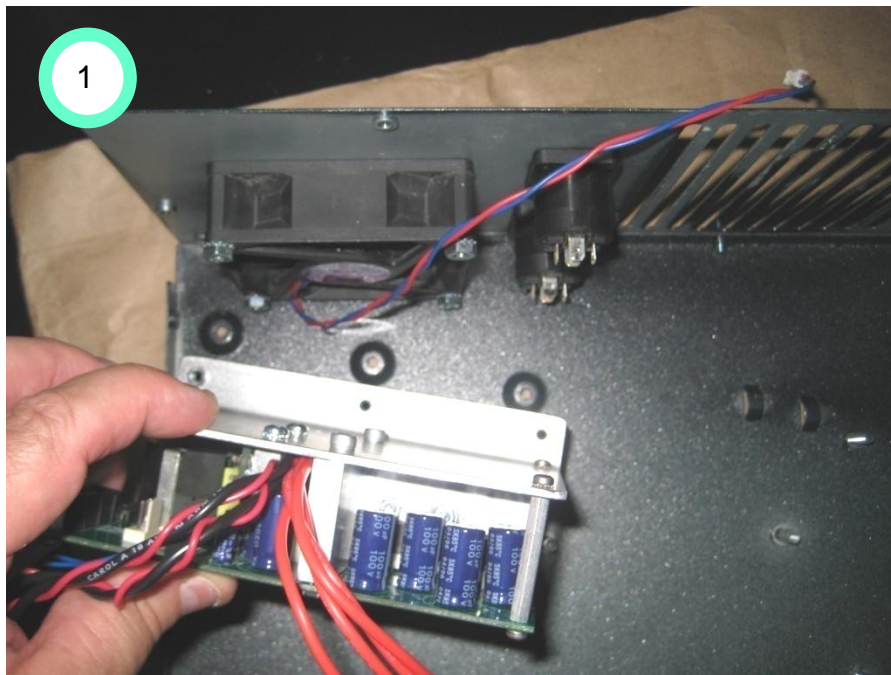




10. Assemble Grounding Cabe to the Chassis pem Stud, using 1 Screw 30-00-0043, as shown. Apply Threadlocker 222 or Equiv.. Torque 8-10 in/lbs.

STEP 5: Power Amp PCBA to Chassis assembly.

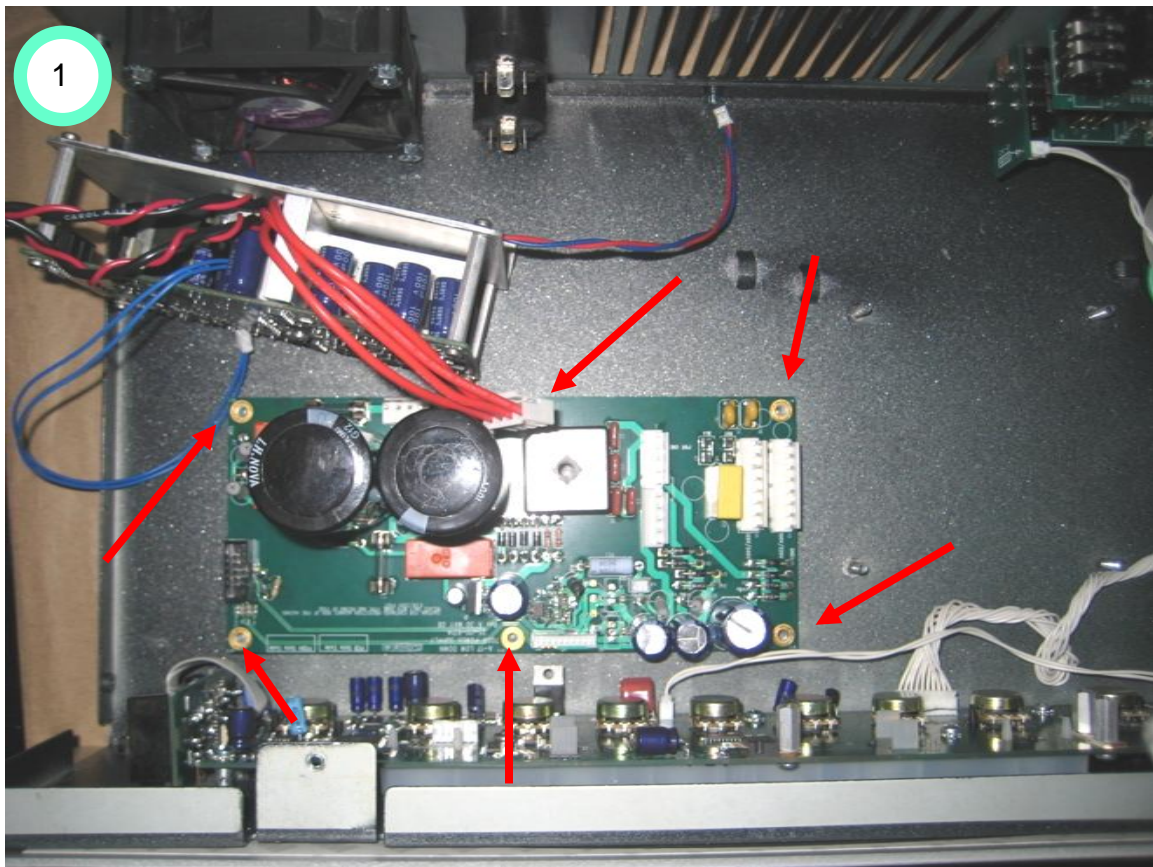
Parts	P/N	DESCRIPTION	QTY
1	30-51-0342	CHASSIS 700W A17-3	1
2	30-00-0043	SCREW 6-32 x 5/16 w/LK WASH PPZ STL	3
3	n/a	THREADLOCKER (Loctite 222 or Equivalent)	



1,2,3. Assemble Power Amp PCBA & Heatsink Assembly, to Chassis 30-51-0342, using (3) Screws 30-00-0043, from underneath the Chassis, as shown. **Apply Threadlocker (Loctite 222 or equivalent) to the PEM nuts where the threads come through the bracket.**
 Torque 8-10 in/lbs.

STEP 6: Power Supply PCBA assembly.

Parts	P/N	DESCRIPTION	QTY
1	50-02-9314	PCBA 700W POWER SUPPLY A17-3	1
2	30-00-0043	SCREW 6-32 x 5/16 w/LK WASH PPZ STL	6

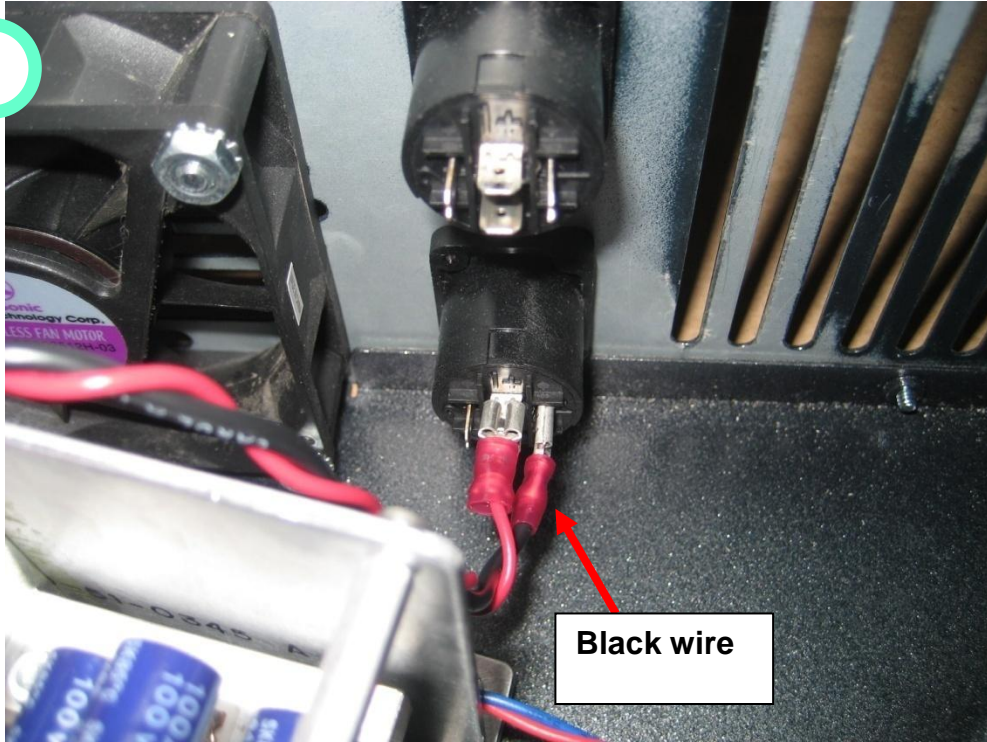


1. Assemble Power Supply PCBA 50-02-9314, using (6) Screws 30-00-0043, as shown.
Torque 8-10 in/lbs.

Note: (2) Fuses should be #24-19-6325 6.3A 250V

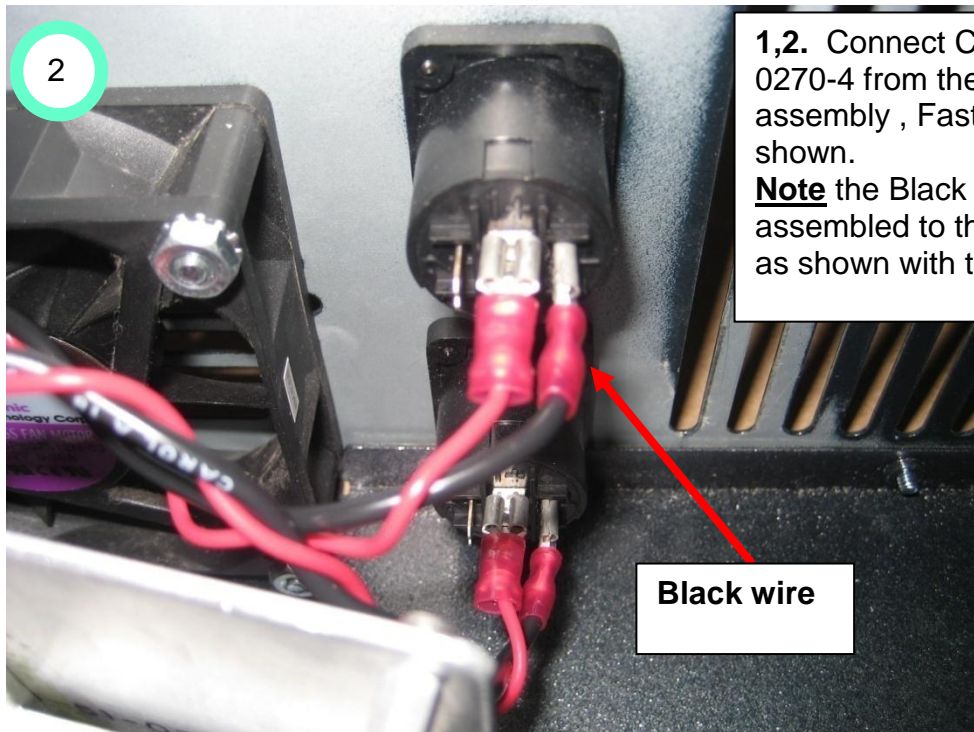
STEP 7: Speak-on Connector Cable assembly.

1



Black wire

2



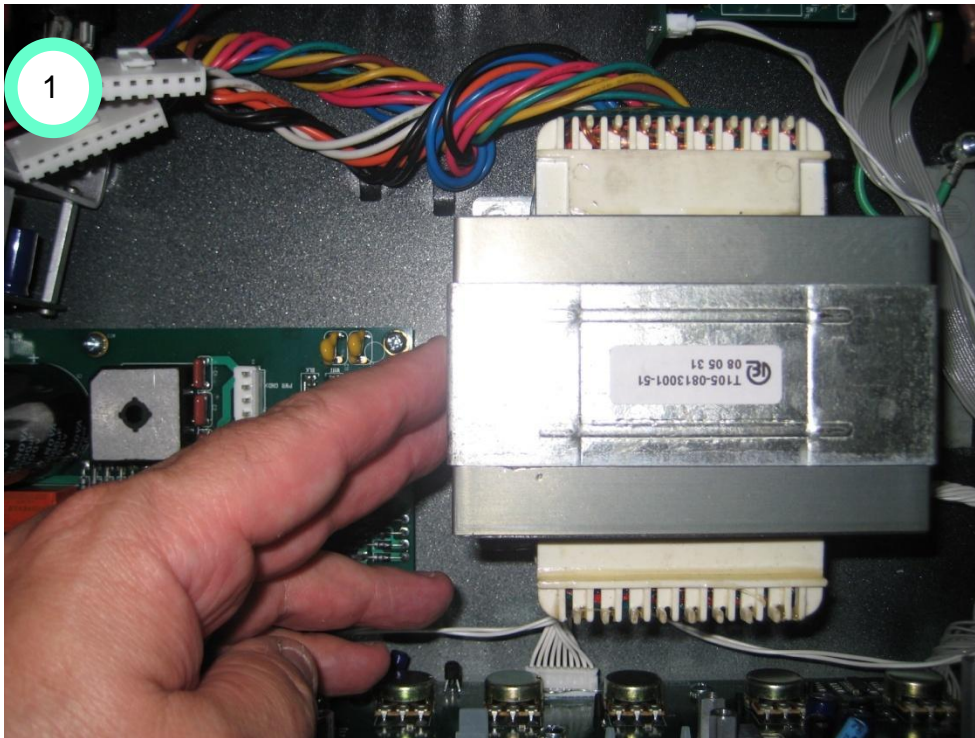
Black wire

1,2. Connect Cable Assembly 21-36-0270-4 from the Power Amp/Heatsink assembly , Fast-on spade connectors as shown.
Note the Black wires should be assembled to the connectors on the side, as shown with the arrows.

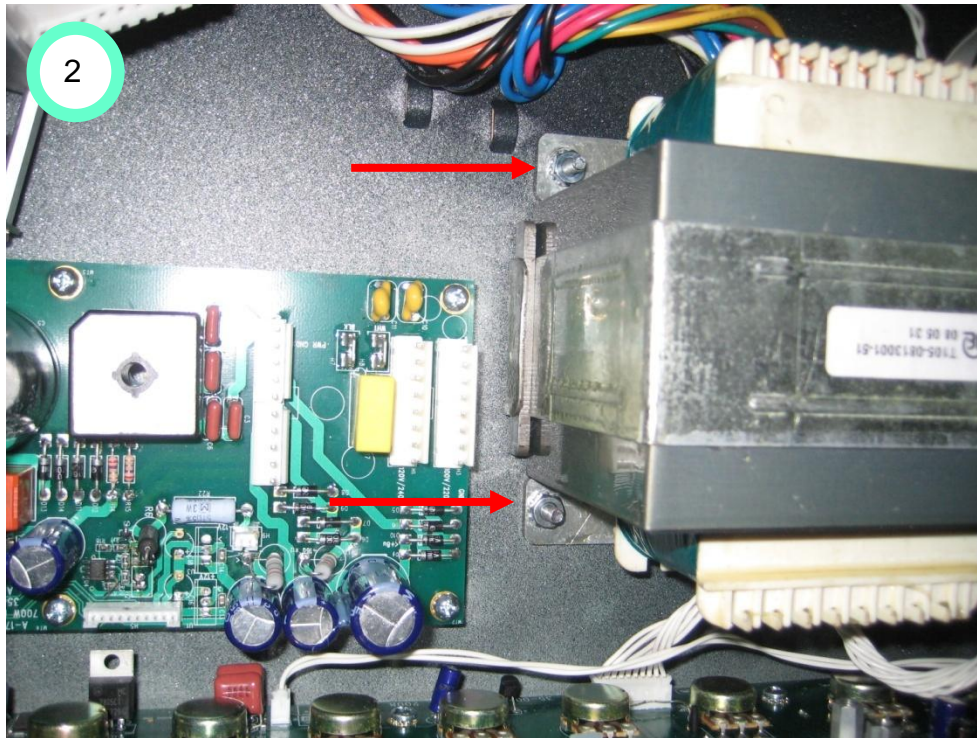
STEP 7: Power Transformer assembly.

# Parts	P/N	DESCRIPTION	QTY
1	11-30-861X	SEE TABLE BELOW.	1
2	30-06-0832	NUT HEX 8-32 STL ZINC w/INCL STR WSHR	4

Transformer P/N	Description	For Use On	Description
11-30-8617	XFMR 100V/120V	59-00-1606-1	ASSY UNIT COMPLETE HD700 LOW DOWN A17-3 US
11-30-8619	XFMR 220V/240V	59-00-1606-2	ASSY UNIT COMPLETE HD700 LOW DOWN A17-3 AU
11-30-8619	XFMR 220V/240V	59-00-1606-3	ASSY UNIT COMPLETE HD700 LOW DOWN A17-3 EU
11-30-8617	XFMR 100V/120V	59-00-1606-4	ASSY UNIT COMPLETE HD700 LOW DOWN A17-3 JA
11-30-8619	XFMR 220V/240V	59-00-1606-5	ASSY UNIT COMPLETE HD700 LOW DOWN A17-3 UK



1. Install the Transformer (11-30-8617 or 11-30-8619) to the chassis in the orientation shown. Cables will be toward the UI (Main) PCBA. See table above for the correct Transformer.

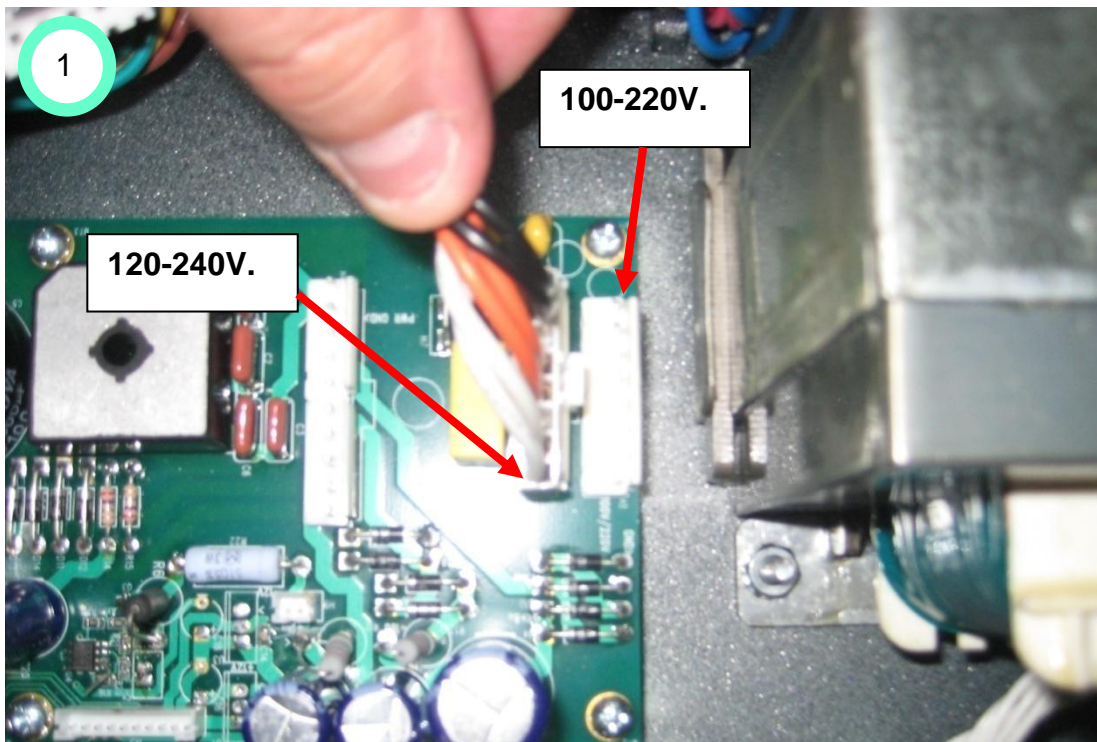


2. Use (4) #8-32 Hex Nuts with tooth washer (#30-06-0832) to secure Transformer to the Chassis Stand-off's. Torque 8-10 in/lbs.

Apply Loctite P/N 21463 (Threadlocker 222) or equivalent, to the exposed screw threads after assembly (4 places).

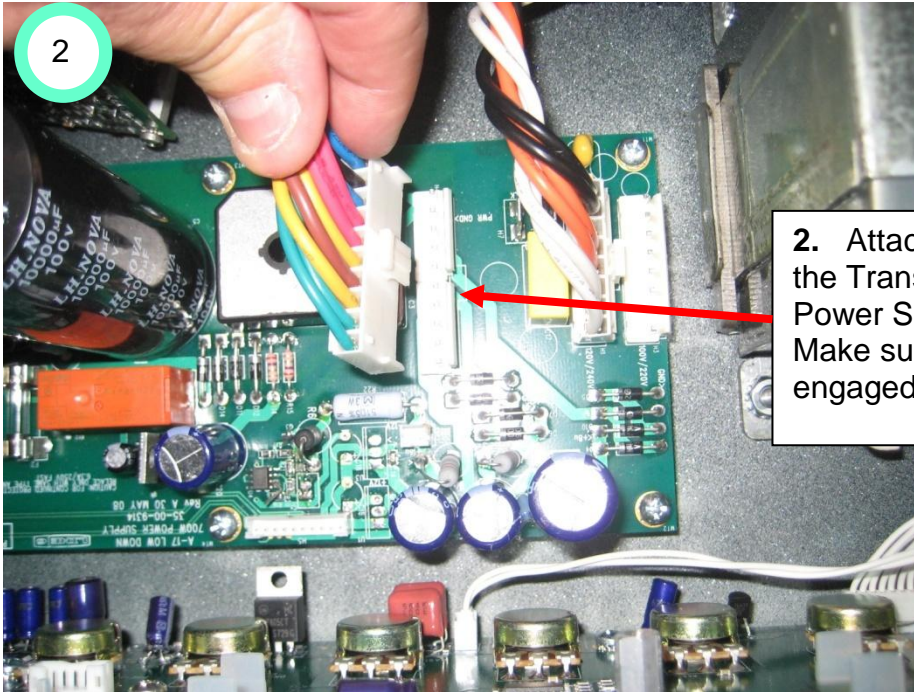
STEP 8: Cables assembly.

# Parts	P/N	DESCRIPTION	QTY
1	21-30-0056	CBL RIBBON DIL 36 PIN 8.0"	1
2	21-34-0076-5	CBL SIL 2 COND 26AWG 2MM x 22" JST PHR-2 BLUE	1
3	21-34-0075-2	CBL ASSY SIL 10 COND 26AWG F/F 6.2 5" F-F-Z TYPE	1
4	21-36-0277	CBL 2 COND 18AWG TWISTED .205 SPADE-FM x 2 RED/BL - 6"	2
5			
6			
7			



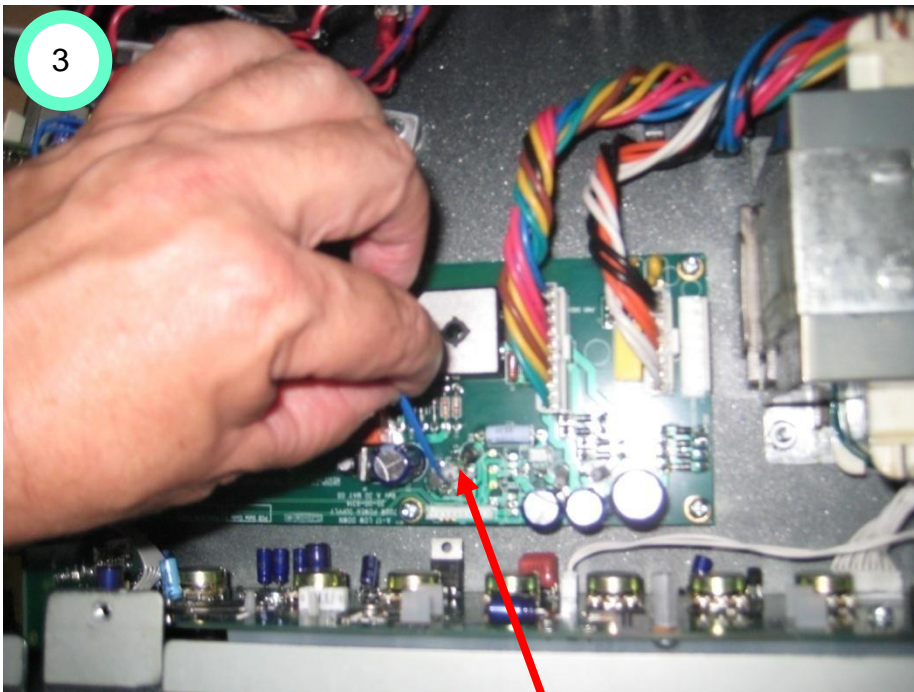
1. Attach Cable from Transformer (6 Cond), to the header shown, on the Power supply PCBA (this is the 120v/240v header shown). Make sure that the Cable is FULLY inserted & the locking tab is engaged.

Finished Goods P/N	Description	Connect to Header
59-00-1607-1	ASSY UNIT COMPLETE HD700 LOW DOWN A17-3 US	120/240
59-00-1607-2	ASSY UNIT COMPLETE HD700 LOW DOWN A17-3 AU	120/240
59-00-1607-3	ASSY UNIT COMPLETE HD700 LOW DOWN A17-3 EU	100/220
59-00-1607-4	ASSY UNIT COMPLETE HD700 LOW DOWN A17-3 JA	100/220
59-00-1607-5	ASSY UNIT COMPLETE HD700 LOW DOWN A17-3 UK	120/240



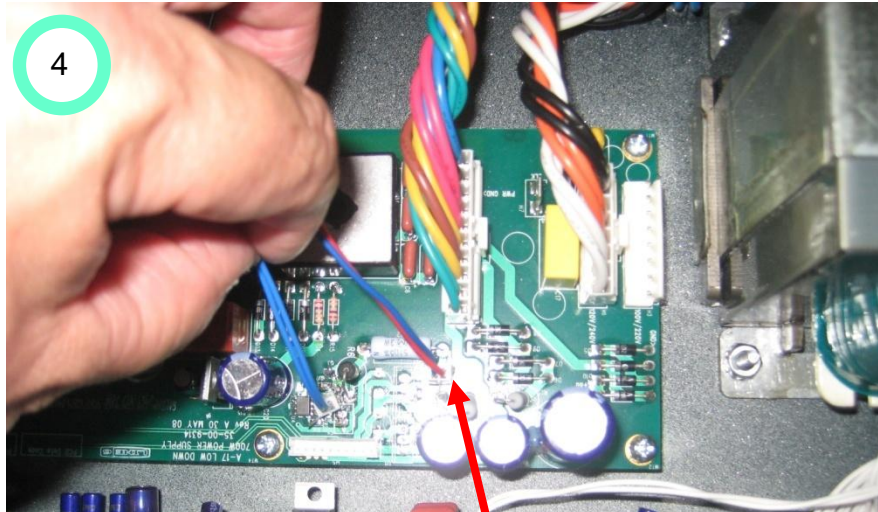
2

2. Attach the 10 COND cable from the Transformer, to the header on the Power Supply PCBA shown. Make sure the cable lock latch is fully engaged.

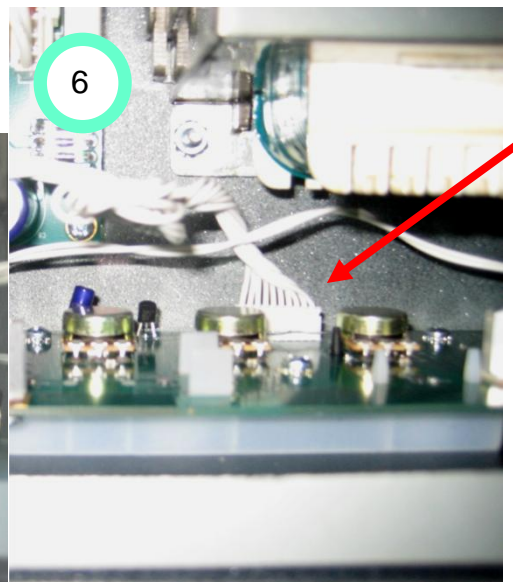
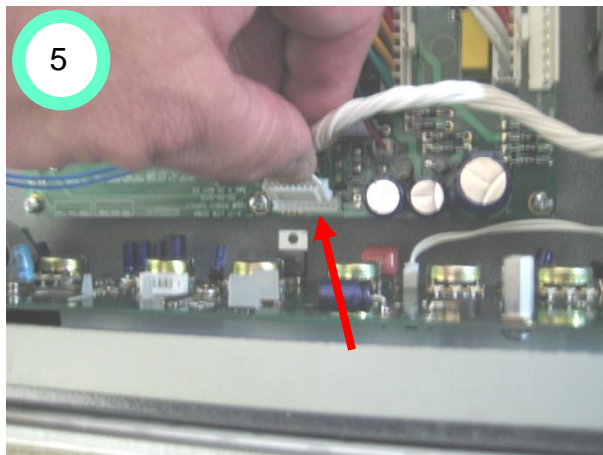


3

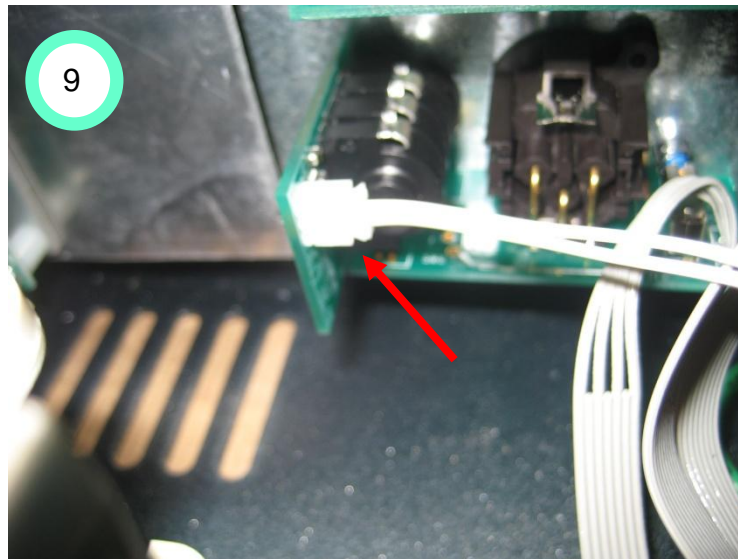
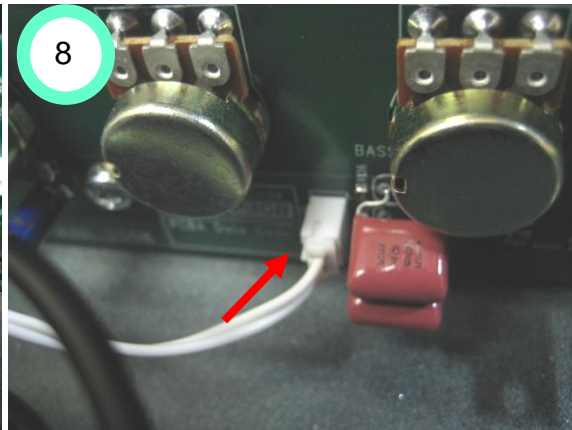
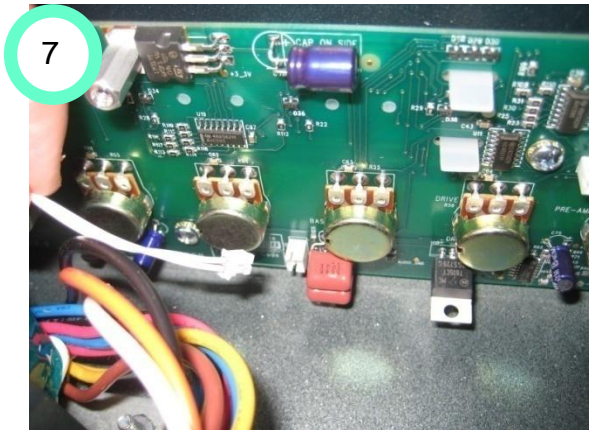
3. Attach the 2 COND Blue Temp Sense cable from the Power Amp, to the appropriate header H2 on the Power Supply PCBA.



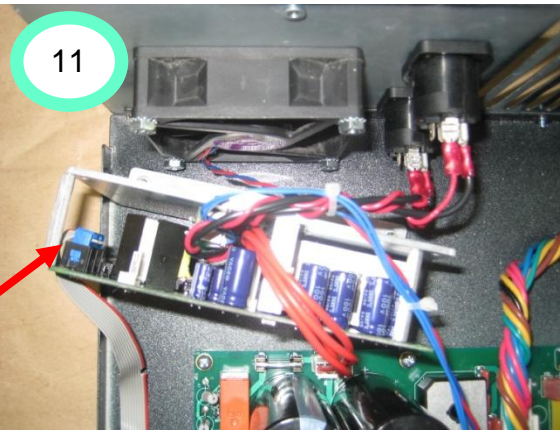
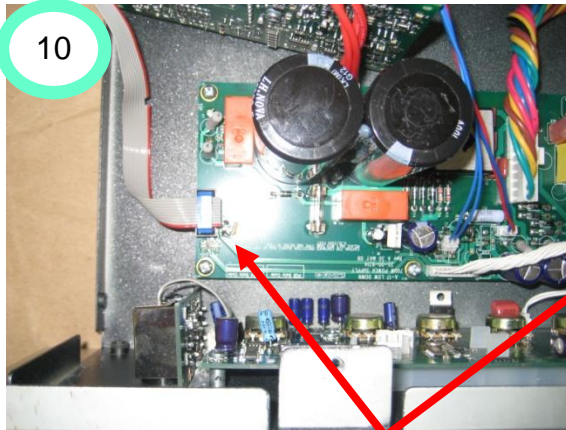
4. Attach the 2 COND cable from the Fan, to the appropriate header H9 on the Power Supply PCBA.



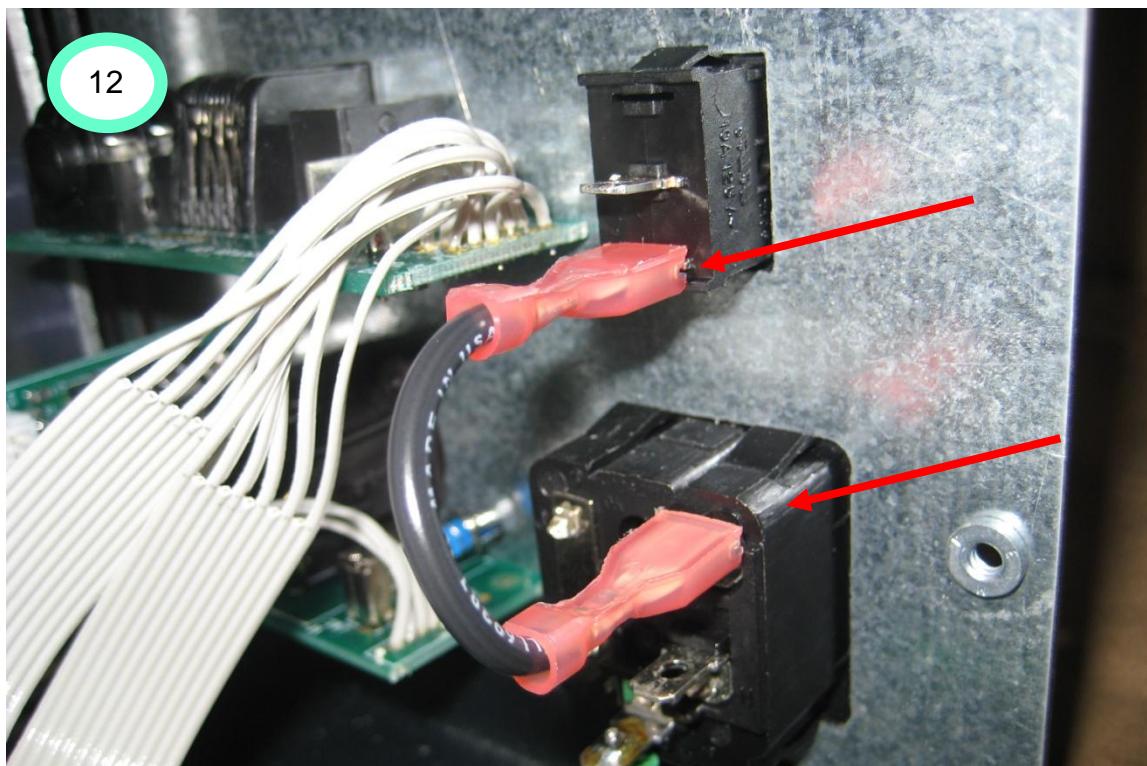
5,6. Attach the 10 COND cable 21-30-0009-1 from the Power Supply, to the Main UI as shown in 5 & 6. **Twist 4- 6 times.**



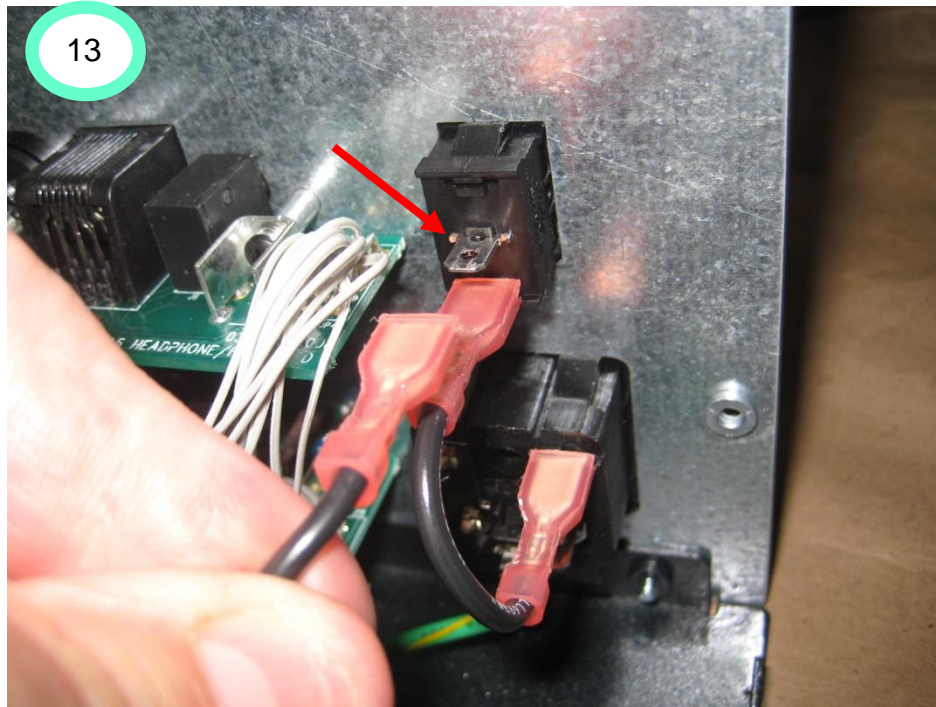
7,8,9. Twist 6 times minimum, and attach the 2 COND cable (# 21-34-0076-5) from the Main UI PCBA, to the Pre-Out PCBA as shown.



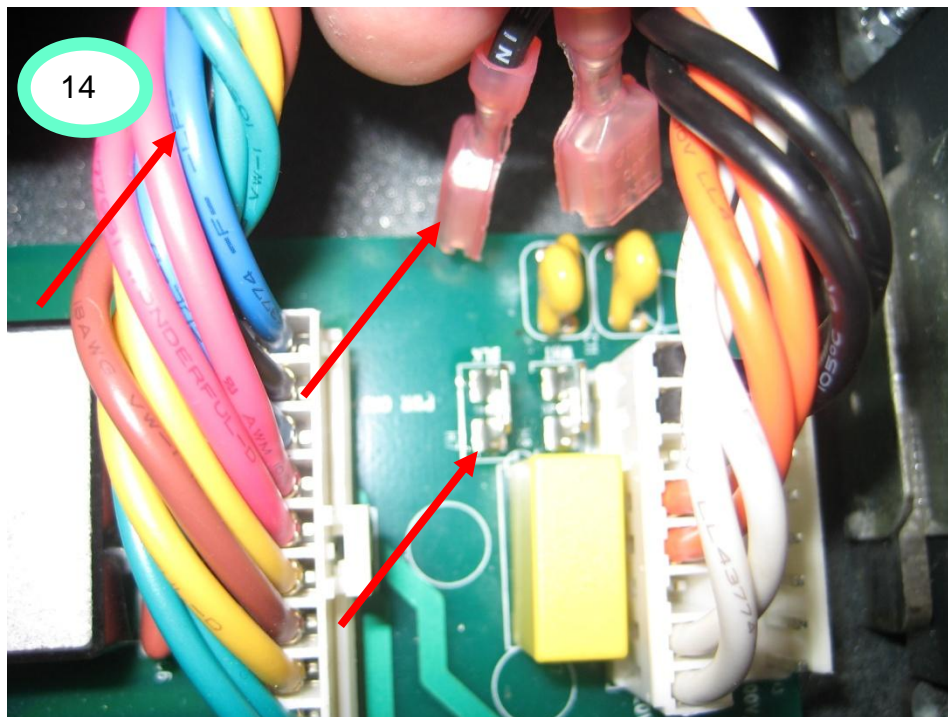
10,11. Attach the 10 COND Ribbon cable (# 21-30-0009-1) from the Power Amplifier PCBA (pic #11) to the Power Supply PCBA (pic #10), as shown. Make sure that the cables are fully seated.



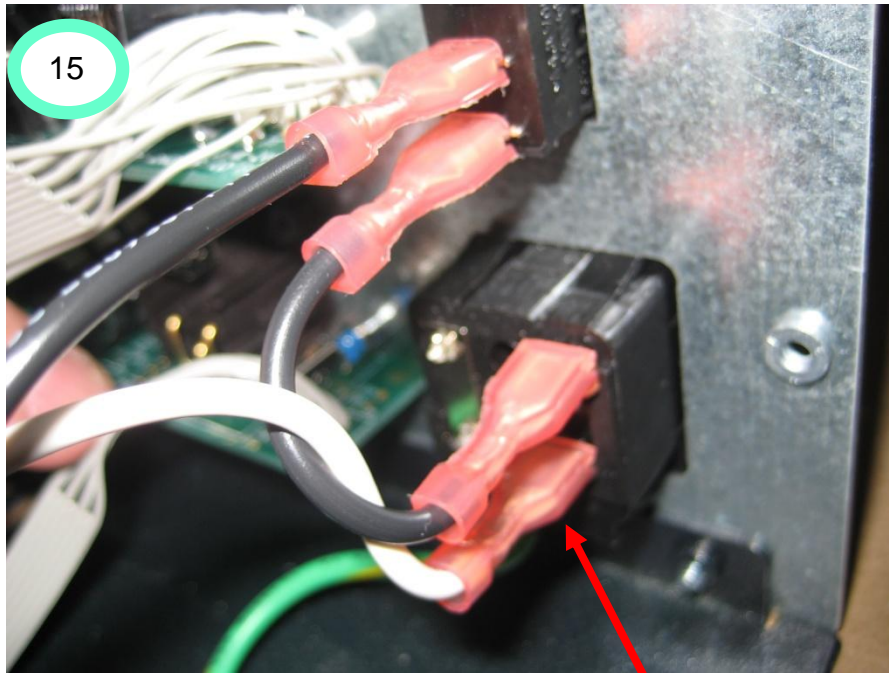
12. Attach the Cable (# 21-29-0013-1) from the Switch (#24-24-0607 lower tab), to the IEC Connector (#21-24-0002 upper tab) as shown.



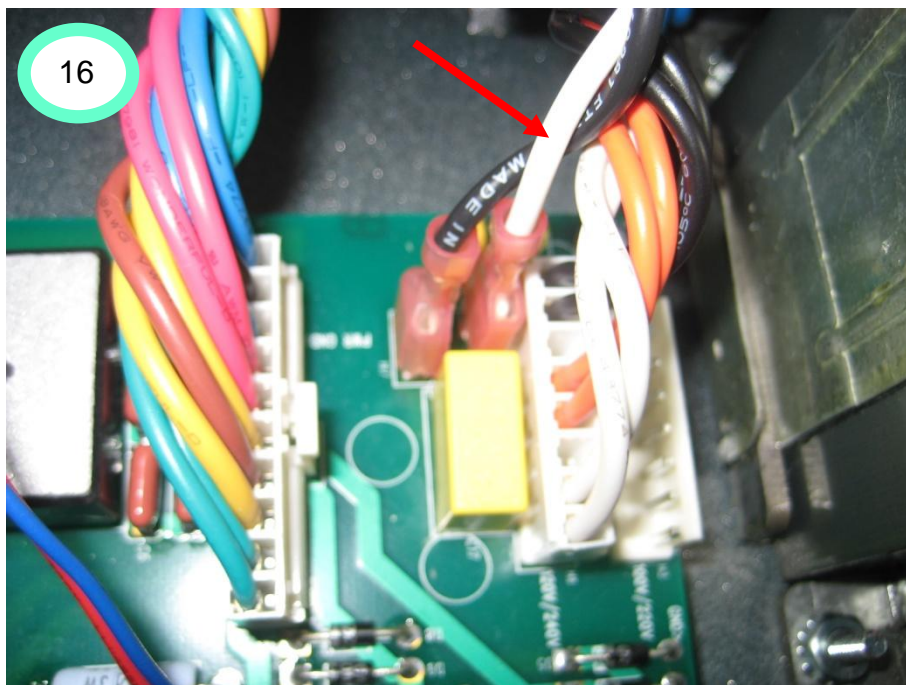
13. Attach the Black Cable (# 21-29-0012-6) to the Switch (#24-24-0607 upper tab) as shown.

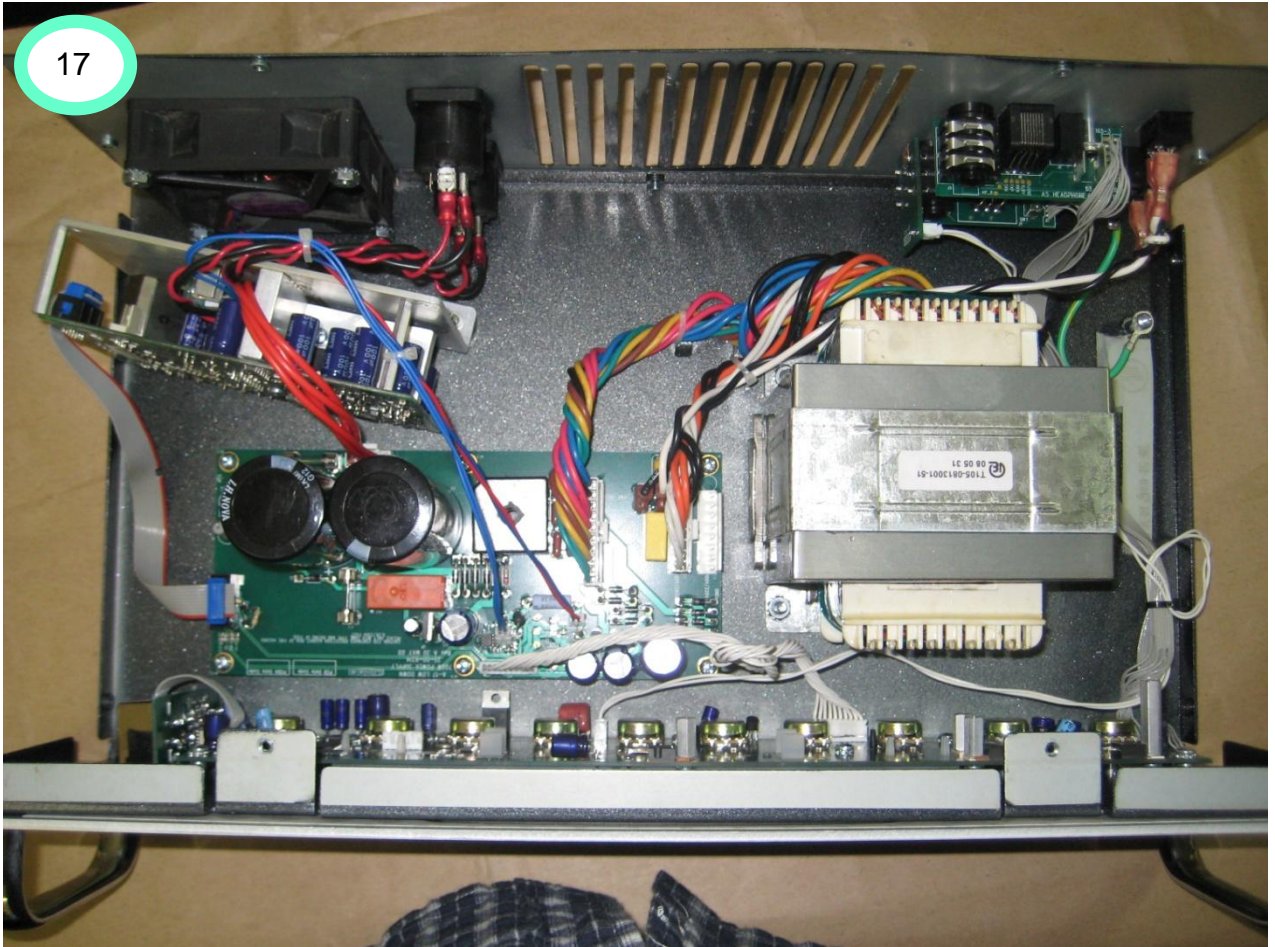


14. Attach the Black Cable (# 21-29-0012-6) to the Power Supply PCBA, as shown, marked "Black"



**15, 16. Twist & Attach the White Cable (# 21-29-0012-5) to the IEC Connector (Lower tab), as shown, and to the Power Supply PCBA marked "TO CONNECTOR".
Must be a minimum of 5 twists around White cable 21-29-0012-6.**



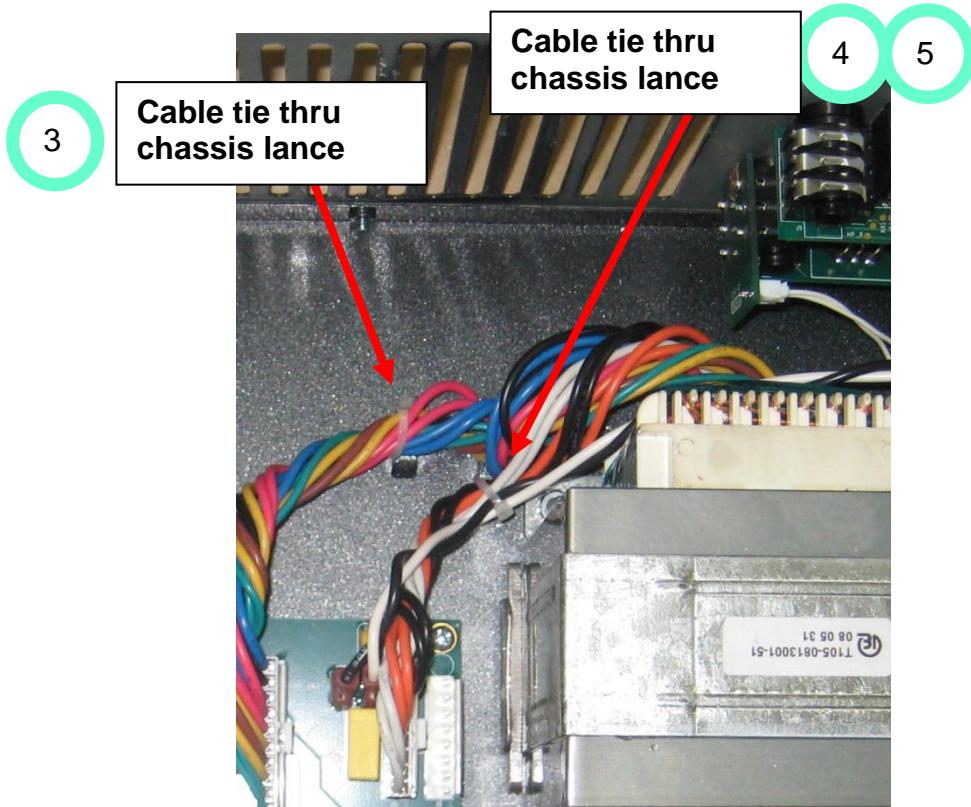
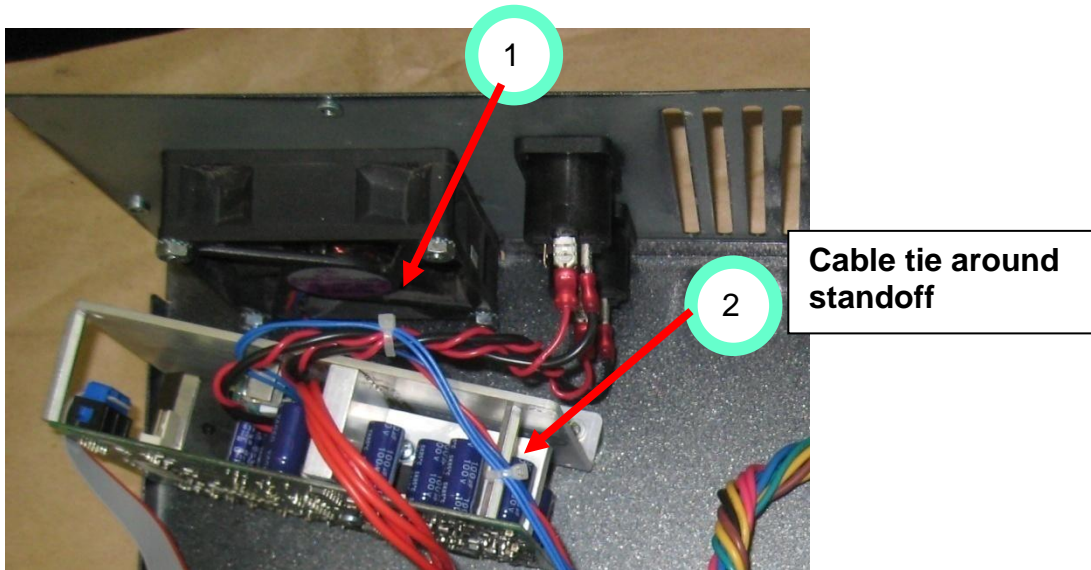


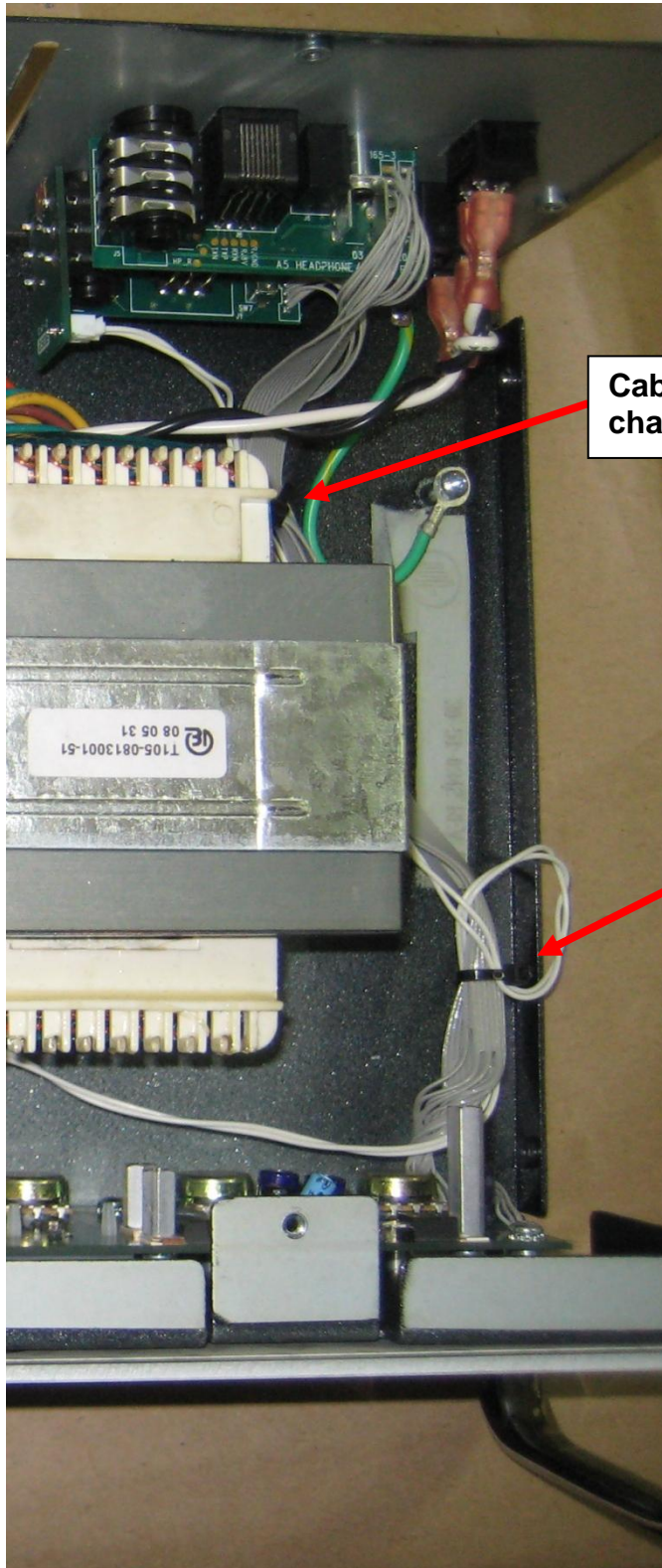
17

19. Shows all cables assembled.

STEP 9: Cable Ties to Cables assembly.

Parts	P/N	DESCRIPTION	QTY
1	30-24-0030	Cable tie 4 inch	7





Cable tie thru chassis lance

6

Cable tie thru chassis lance

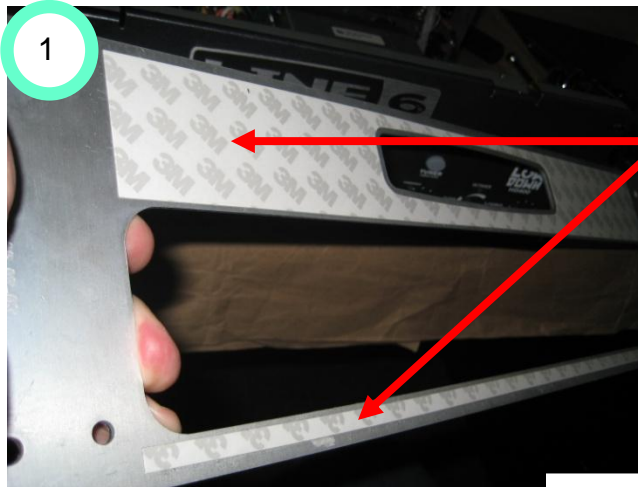
7

STEP 10: Front Panel assembly.

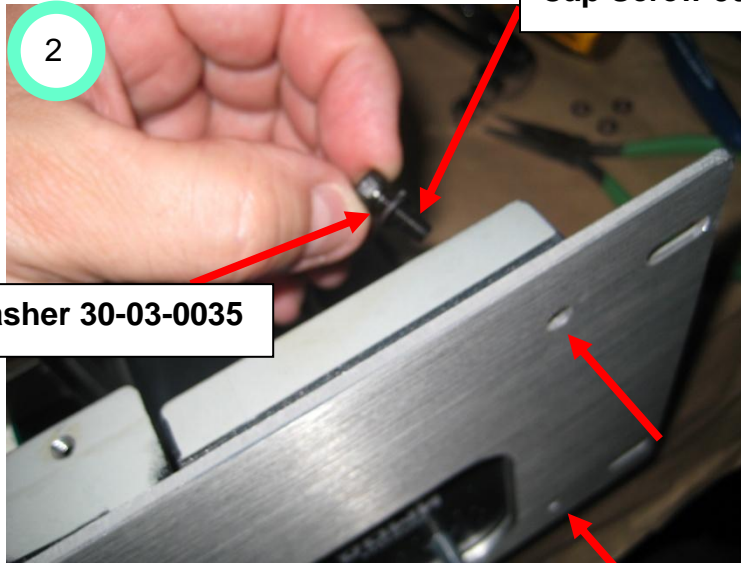
Parts	P/N	DESCRIPTION	QTY
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1	30-51-0344	Panel Front A17-2,-3	1
2	30-00-0500	Screw Socket head Cap 10-32 x 1/2 " Black	4
3	30-03-0035	Washer Split Lock Zinc	4
4	30-57-9582	Handle 110 x 38 steel chrome A17-2, -3	2
5	30-60-0005	Logo Line 6	1
6	30-00-9813	Screw 4-40 x .250 Phil flat Stl BLK.	2
7	30-51-0343	Chassis Cover A17-2, -3.	1
8	30-00-0375	Screw 6-32 x .375 Phil Pan Blk	14
9	30-03-0383	Bracket Front Panel	2
10	30-00-0093	Screw 8-32 x 7/16"L PH Pan Blk	2



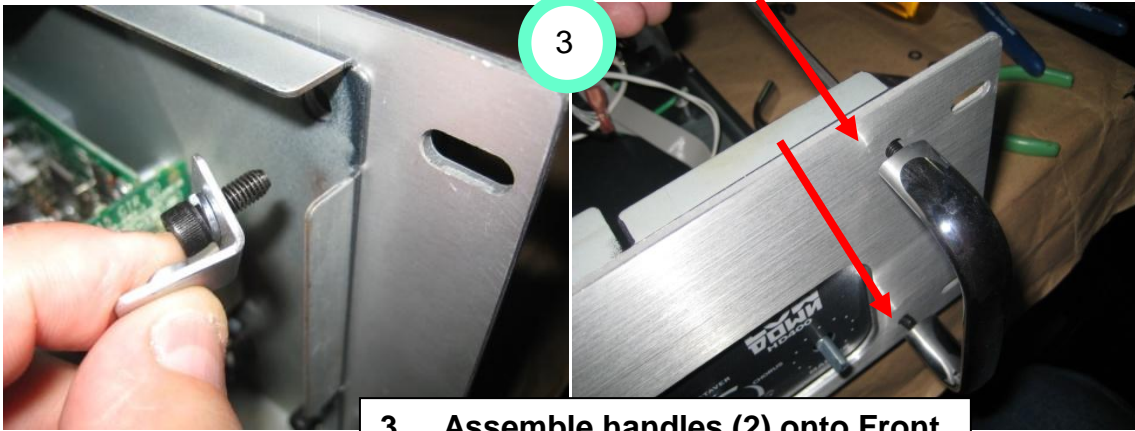
1. Remove adhesive backing from Front Panel 30-51-0344.



Split washer 30-03-0035

Cap Screw 30-00-0500

**2. Before Applying the Front Panel to the Chassis, align the 4 mounting holes.
 (2) Brackets (30-03-0383) for Upper handle mounting screws.
 (4) Cap Screws (30-00-0500) and (4) Split washers (30-03-0035), can be assembled through the chassis & front panel, as shown.**



3. Assemble handles (2) onto Front Panel, as shown. Torque 8-10 in/lbs.



Bracket 30-51-0383 (x2)



4. Align LOGO (30-60-0005) in position shown, and assemble using (2) Screws (30-00-9813). Apply Threadlocker 246 or Equiv. to end of screws, prior to insertion. Torque 5-6in/lbs. Shows Logo & both handles assembled



4. 1 Assemble **Top Cover Chassis (30-51-0343)** , using (2) Screws #30-00-0097 #8 Screws, to each side of the top corners of the Cover. . **Apply Loctite 246 to screws before insertion..**
Torque 5-6in/lbs.



5. Assemble the rest of **Top Cover Chassis (30-51-0343)** , using (10) Screws #30-00-0375.
4 Rear, 2 each side, and 2 on top.
Torque 6-8 in/lbs.

STEP 11: Knobs assembly.

Parts	P/N	DESCRIPTION	QTY
1	30-45-0011	Knob Pot Plastic Chrome Plated	10



**1. - Turn ALL Pot Shafts fully Counter Clockwise.
- Align Knob pointer position, to Minimum Screen position, and
press onto the pot shafts.**



Apply (1) Barcode serial number sticker here.
(# 40-25-0100)

Unit Mechanical assembly Instructions.-END

99-025-0315 - A17-3 LOWDOWN HD750 US

Level	Item	Part Number	Qty	UOM	Refdes	Find	Rev	Description
1	1	21-37-1160	1	EA				CBL PWR UL/CSA SJT 8.2FT BLK E L-302 w/GND EL70
1	2	40-00-0300	1			F		MANUAL USER UNIVERSAL LOW DOWN A5-1/2/3
1	3	40-00-1000	1			H		CARD WARRANTY LINE 6
1	4	40-00-2003	4					ENDCAP CARDBOARD LOWDOWN A17-2, A17-3
1	5	40-01-0016	1			C		CARD LICENSE-AGREEMNT END-USER ALL-PRODUCTS
1	6	40-03-0031	1			B		CARD REGISTRATION UK
1	7	40-03-2000	1			F		CARD REGISTRATION US
1	8	40-03-2000-1	1			A		CARD REGISTRATION EUROPE
1	9	40-10-0270	1			A		CARTON GIFT LOWDOWN HD700 A17-3
1	10	40-20-0011	1			A		BAG PLASTIC 10 x 16 2 mil
1	11	40-20-0022	1			A		BAG PLASTIC 2 MIL 36"x14"
1	12	40-25-0024	1			B		STICKER ART SEAL EULA
1	13	40-25-0101	2					LABEL BAR CODE S/N 2-PNL LTX 16 1125502
1	14	40-25-0168	1			A		LABEL ETL SUGA 2"X 1" INTERTEK CHINA
1	15	59-00-1607-1	1			A		ASSY UNIT COMPLETE HD750 LOWDO WN A17-3 US 120V
2	10	11-30-8617	1					TRANSFORMER 100/120V 50/60Hz L D700W A17-3
2	20	24-19-1000	1					FUSE 10.0A 5MM x 20MM SLOW BLO W
2	30	40-25-0020	1			A		LABEL INSPECTION QUALITY
2	40	50-04-0700	1			A		ASSY E/M CHASSIS HD750 A17-3
3	1	11-50-0813	1			B		FAN 12V DC 25MM x 80MM x 80MM
3	2	21-14-0002	1					JACK IEC w/FUSE MALE 3 PIN PAN EL MOUNT SNAP IN VERT
3	3	21-19-0002	2					CON WIRE/CBL MISC NEUTRIK SPEAKON NL4MP-2
3	4	21-29-0012-5	1			D		WIRE18AWG DBL INSUL STRAND 12 "x.187/1x.205 Q-CONN FEM WH
3	5	21-29-0012-6	1			D		WIRE18AWG DBL INSUL STRAND 12 "x.187/1x.205 Q-CONN FEM BL
3	6	21-29-0013-1	1			B		WIRE18AWG DBL INSUL STRANDED 2" FEMALE CON ON BOTH SIDES BL
3	7	21-30-0009-1	1			D		CBL DIL 10 PIN .100 PITCH 8"
3	8	21-34-0008-3	1					CBL SIL 4 PIN .156" PITCH 8"
3	9	21-34-0075-2	1			D		CBL ASSY SIL 10 COND 26AWG 6.2 5" 2MM F-F Z-TYPE BLUE
3	10	21-34-0076-5	1			H		CBL SIL 2 COND 26AWG 2MM x 22" JST PHR-2 BLUE
3	11	21-34-0076-6	1			H		CBL SIL 2 COND 26AWG 2MM x 10" JST PHR-2 BLUE
3	12	21-34-1116	1			C		CBL EARTHING w/EYELET 16AWG 5" GREEN w/YELLOW STRIPE
3	13	21-36-0270-4	1					CBL 4 COND 18AWG TWISTED PAIR 1-JST/.205 SPADE-F x 4 8"/8"
3	14	24-21-1124	1					CAP SWITCH PLASTIC .20" DIA x .35" BLK
3	15	24-24-0607	1					SWITCH POWER ROCKER 6A/250V 10 A/120V w/O OFF CAP PRINT
3	16	30-00-0042	6					SCREW SHEET METAL 4 x 0.375 IN SELF-TAP PPB
3	17	30-00-0043	21			A		SCREW 6-32 X 5/16 LG WITH LOCK WASHER PHIL PAN ZINC-PLATED STEEL
3	18	30-00-0079	4					SCREW 8-32 x 1.25" PHILLIPS PH BLK
3	19	30-00-0097	2					SCREW 8-32 x 7/16" PHH PNH STL BLK OXIDE
3	20	30-00-0152	4					SCREW M3 x 20mm PAN HD PH BLACK STL
3	21	30-00-0153	2					SCREW M4 x 10mm HEX SOCKET HD CAP
3	22	30-00-0163	8					SCREW M3 x 8mm PHILLIPS PAN W/EXT SEMS, SS
3	23	30-00-0375	13					SCREW 6-32 x .375 PPB
3	24	30-00-0404	1					SCREW 4-40 x .250 LG PHILLIPS PNH STL ZINC
3	25	30-00-0500	4					SCREW 10-32 x .500 LG SOCKET HEAD BLK OXIDE STL
3	26	30-00-9813	2					SCREW 4-40 x 0.250" FLAT-HD STEEL BLACK-OXIDE
3	27	30-03-0004	4					WASHER LOCK w/EXTERNAL TOOTH 2 x #4 x .017IN STL

3	28	30-03-0035	4			WASHER #10 SPLIT LK WASH ZINC
3	29	30-06-0832	8			NUT .335 HEX 8-32 STL ZINC W/ TOOTH WASHER
3	30	30-12-2213	4			STANDOFF HEX 4.4MM X 31MM LG, X M3, F-F, AL
3	31	30-15-0004	4	J2,J5,J7,J10		A SPACER .13 THICK x .63OD NYLON
3	32	30-24-0003	7			CABLE TIE 4" CLEAR
3	33	30-45-0011	10			D KNOB POT .77 DIA x .76 HT PLASTIC CHROME PLATED
3	34	30-51-0342	1			D CHASSIS 700W A17-3
4	10	41-00-0187	1			B ARTWORK SILKSCREEN CHASSIS FRONT LD700 A17-3
3	35	30-51-0343	1			C CHASSIS COVER A17-2 -3
3	36	30-51-0344-2	1			C PANEL FRONT 700W A17-3
4	1	41-00-0187	1			B ARTWORK SILKSCREEN CHASSIS FRONT LD700 A17-3
3	37	30-51-0345	1			C HEATSINK POWER AMP AL A17-3
3	38	30-51-0347	1			C PANEL BACK 700W A17-3
4	1	41-00-0186	1			D ARTWORK SILKSCREEN CHASSIS REAR LD700 A17-3
3	39	30-51-0383	2			A BRACKET FRONT PANEL .9" X .6" X .060" THICK STEEL A17
3	40	30-57-9582	2			HANDLE 110X38 STEEL CHROME A17-2, -3
3	41	30-60-0005	1			A LOGO LINE 6 MED 139.70x28.63MM BRUSHED/BLACK FINISH ALUMINUM
3	42	30-75-0027	1			C KEYPAD RUBBER 8.3" x 1.9" x 0.73" A5-1/2/3
3	43	30-75-0028	1			C COVER LED RUBBER 2.8 x 1.3 x 0.46" A5-1/2/3
3	44	30-75-0029	1			C COVER LED RUBBER 1.3 x 1.1 x 0.46" A5-1/2/3
3	45	40-25-9005	1			B STICKER SPEAKER-GRILL PROMO LOWDOWN HD700 A17-3
3	46	50-02-0345	1			A PCBA MAIN LOW DOWN HD400/HD750 A17-2 A17-3
4	1	01-24-0000	3	R5,R90,R121		RES OR 1% 0805
4	2	01-24-1000	1	R2		RES 100R 1% 0805
4	3	01-24-1001	5	R4,R6,R9-R10,R125		RES 1.00K 1% 0805
				R19-R20,R24,R33,R57,R62-R64,R67-		
4	4	01-24-1002	22	R68,R70,R74,R86,R88,R94,R103,R105,R120,R123,R133-R134,R136		RES 10.0K 1% 0805
4	5	01-24-1003	4	R95,R102,R106-R107		RES 100K 1% 0805
4	6	01-24-1070	2	R3,R7		RES 107R 1% 0805
4	7	01-24-10R0	3	R22,R28,R35		RES 10.0R 1% 0805
4	8	01-24-1332	1	R69		RES 13.3K 1% 0805
4	9	01-24-1501	3	R8,R32,R76		RES 1.50K 1% 0805
4	10	01-24-15R0	2	R72-R73		RES 15R 1% 0805
4	11	01-24-1620	1	R1		RES 162R 1% 0805
4	12	01-24-2001	1	R91		RES 2.00K 1% 0805
4	13	01-24-2002	7	R40-R42,R46,R77,R79,R135		RES 20.0K 1% 0805
4	14	01-24-2152	1	R124		RES 21.5K 1% 0805
4	15	01-24-22R1	1	R39		RES 22.1R 1% 0805
4	16	01-24-3090	10	R23,R25,R30-R31,R108-R109,R116-R119		RES 309R 1% 0805
4	17	01-24-4751	11	R11,R21,R26-R27,R29,R34,R36-R37,R61,R92-R93		RES 4.75K 1% 0805
4	18	01-24-4752	5	R38,R65,R81,R127-R128		RES 47.5K 1% 0805
4	19	01-24-47R5	8	R78,R80,R87,R89,R97-R100		RES 47.5R 1% 0805
4	20	01-24-4991	5	R66,R71,R126,R129-R130		RES 4.99K 1% 0805
4	21	01-24-5110	1	R75		RES 511R 1% 0805
4	22	01-24-5R11	3	R60,R82-R83		RES 5.11R 1% 0805
4	23	01-24-6041	2	R101,R104		RES 6.04K 1% 0805
4	24	01-24-60R4	6	R110-R115		RES 60.4R 1% 0805
4	25	01-48-0103	10	R49-R56,R58-R59		A POT MONO 10KB LINEAR TAPER 25MM D-SHAFT

4	26	03-10-1107	1	C75		CAP ELEC 100uF 6.3V 20% RADIAL 5/11/5
4	27	03-10-6108	2	C37,C91		CAP ELEC 1000uF 6.3V 20% RADIAL 8/11.5/5
4	28	03-12-0337	2	C45,C54		CAP ELEC 330uF 16V 20% RADIAL 8/11.5/5
4	29	03-12-0476	2	C36,C55		CAP ELEC 47uF 16V 20% RADIAL 6.3/11.2/5
4	30	03-12-1477	2	C40,C47		CAP ELEC 470uF 16V 20% RADIAL 8/12/5
4	31	03-14-0476	2	C42,C52		CAP ELEC 47uF 25V 20% RADIAL 6.3/7/5
4	32	03-18-0105	2	C77,C89		CAP ELEC 1uF 50V 20% RADIAL 5/11/5
4	33	03-18-0106	3	C92,C95-C96		CAP ELEC 10uF 50V 20% RADIAL 5/11/5
4	34	03-24-0564	2	C105-C106	A	CAP MET POLY 0.56uF 100VDC 5% TH 4.5/7.5/7/5
4	35	03-46-0225	2	C1,C10		CAP X7R 2.2uF 16V 10% 1206
4	36	03-50-0101	2	C80,C85		CAP NPO 100pF 50V 5% 0805
4	37	03-50-0221	3	C50,C81,C83		CAP NPO 220pF 50V 5% 0805
4	38	03-50-0391	2	C90,C93		CAP NPO 390pF 50V 5% 0805
4	39	03-52-0102	2	C82,C84		CAP X7R 1nF 50V 10% 0805
4	40	03-52-0104	19	C6-C7,C13-C14,C17-C18,C20,C32-C33,C39,C43,C46,C48,C51,C56,C66-		CAP X7R 0.1uF 50V 10% 0805
4	41	03-52-0332	1	C67,C97-C98		CAP X7R 3.3nF 50V 10% 0805
4	42	03-52-0473	27	C8,C11,C15,C19,C22,C34-C35,C38,C57-C65,C68,C74,C76,C78-		CAP X7R 47nF 50V 10% 0805
4	43	03-56-0180	2	C79,C86-C88,C101-C102		CAP NPO 18pF 50V 5% 0603
4	44	06-23-0054	1	D40		DIODE SCHOTTKY DUAL 30V 200mA 5nS SOT-23 SM
4	45	06-34-0016	6	D32-D37		DIODE SWITCHING 75V 200mA 6nS SOT-23 SM
4	46	06-34-0021	1	D41		DIODE SWITCHING 250V 200mA 50nS SOT-23 SM
4	47	06-34-0031	9	D1-D2,D11-D12,D28-D30,D38-D39		DIODE GEN PUR DUAL 120V 600mA 50nS SOT-23 SM
4	48	09-06-7002	1	Q5		TRANS MOSFET N-CHAN 60V 7R5 SOT-23 SM
4	49	09-10-4403	2	Q2-Q3		TRANS PNP SMALL SIGNAL SOT-23 SM
4	50	11-00-1201	1	Y1		CRYSTAL 12MHz SHORT CAN HC49 T H
4	51	12-00-0317	2	U2-U3	A	IC VREG ADJ 1.2V-37V 1.5 AMP TO-220 LM317 TH
4	52	12-00-0337	1	U7		IC VREG ADJ 1.5V-37V 1.5 AMP TO-220 LM337 TH
4	53	12-00-0431	1	Q1		IC REG ADJ PREC SHUNT 2.495V 1 % TO-226/TO-92 TH
4	54	12-00-7808	1	U10		IC REG +8V 1A TO-220 TH
4	55	12-02-7805	1	U15		IC REG +5V 1.5 AMP TH
4	56	12-54-0072	2	U8,U20		IC OP AMP DUAL TL072 SM
4	57	12-54-0084	3	U16-U18		IC OP AMP QUAD TL084CD SM
4	58	12-64-4528	1	U14	A	IC CONVERTER 24BIT 96KHz AUDIO CODEC AK4528 SM
4	59	15-62-0014	1	U4		IC 74HC14 HEX SCHMITT TRIGGER INVERTERS SO-14 SM
4	60	15-62-2595	2	U6,U19		IC 74AHC595 SHIFT REGISTER W/3 STATE OUTPUT 8 BIT SO-16 SM
4	61	15-62-4051	1	U11		IC 74HC4051 CMOS LOGIC ANALOG MUX/DMUX SOIC SM
4	62	15-78-0005	1	U13	A	IC FLASH 512Kb SPI SERIAL SOIC -8 SM
4	63	18-02-0001	10	D14-D23		LED YELLOW SUPER BRIGHT T-1 3M M TH
4	64	18-22-0003	6	D3-D8		LED YELLOW SUPER BRIGHT 2MM x 1.25MM SM
4	65	18-24-0003	2	D9-D10		LED GREEN SUPER PURE GREEN 2MM x 1.25MM 562nm 0805 SM
4	66	21-18-0002	1	H4		TERMINAL SCREW PCB MOUNT RIGHT ANGLE SNAP-IN 6-32 THREAD
4	67	21-20-0202	1	H6		HDR SIL PCB-MT 2 PIN x 2MM MAL E SHRD VERT MT TH
4	68	21-20-0204	1	JP1-JP2		HDR SIL PCB-MT 4 PIN x 2MM MAL E SHRD VERT MT TH
4	69	21-20-0205	1	H3		HDR SIL PCB-MT 5 PIN x 2MM MAL E SHRD VERT MT TH
4	70	21-20-0206	1	H2		HDR SIL PCB-MT 6 PIN x 2MM MAL E SHRD VERT MT TH
4	71	21-20-0210	1	H1		HDR SIL PCB-MT 10 PIN x 2MM MA LE SHRD VERT MNT TH

4	72	21-30-0015-3	1	JP7 TO JP8	D	CBL RIBBON SIL 6 COND 26AWG 2. 54MM 2.5" W/SPLIT ENDS S/T
4	73	21-30-0015-6	2	JP3 TO JP6,JP4 TO JP5	D	CBL RIBBON SIL 6 COND 26AWG 2. 54MM 11.5" W/SPLIT ENDS S/T
4	74	21-30-0016-4	1	JP1 TO JP2	D	CBL RIBBON SIL 4 COND 26AWG 2M M 11.0" w/SPLIT ENDS S/T
4	75	30-00-0043	4	U2-U3,U7,U10	A	SCREW 6-32 X 5/16 LG WITH LOCK WASHER PHIL PAN ZINC-PLATED STEEL
4	76	30-12-0632	1	U10		STANDOFF HEX .250 6-32 F-F 1IN F-F AL
4	77	30-12-2210	3	U2-U3,U7		STANDOFF HEX .250 6-32 F-F .500 LG AL
4	78	30-15-0007	1	Y1		INSULATOR XTAL 4.9MM C-C 11.8 x 5.6MM MYLAR
4	79	35-00-0165	1		F	PCB MAIN LOW DOWN REV.F A5 A17
4	80	45-01-0023	1	U9	V1.01	IC PROGRAMMED MCU v1.01 LOW DOWN A5 A17
5	10	15-84-0936	1			IC MCU 16KB FLASH P89LPC936 TS SOP-28 SM
4	81	45-02-0052	1	U12	V1.00	IC PROGRAMMED FLASH V1.00 LOWDOWN HD400/750 A17-2/A17-3
5	1	15-86-0364	1	(U12)		IC DSP 24 BIT TQFP-100 SM
3	47	50-02-0345-1	1			PCBA GUITAR INPUT LOW DOWN A17-2 A17-3
4	10	01-24-1001	2	R14,R18		RES 1.00K 1% 0805
4	20	01-24-1002	1	R15		RES 10.0K 1% 0805
4	30	01-24-1004	1	R12		RES 1.00M 1% 0805
4	40	01-24-1052	1	R43		RES 10.5K 1% 0805
4	50	01-24-1502	1	R17		RES 15.0K 1% 0805
4	60	01-24-1692	2	R44-R45		RES 16.9K 1% 0805
4	70	01-24-2942	1			RES 29.4K 1% 0805
4	80	01-24-4222	1	R48		RES 42.2K 1% 0805
4	90	01-24-5622	1	R132		RES 56.2K 1% 0805
4	100	03-10-1106	1	C100		CAP ELEC 10uF 10V 20% RADIAL 3/5/5
4	110	03-18-0105	1	C73		CAP ELEC 1uF 50V 20% RADIAL 5/11/5
4	120	03-18-0106	2	C70,C72		CAP ELEC 10uF 50V 20% RADIAL 5/11/5
4	130	03-27-0682	1	C69		CAP POLYESTER 6.8nF 50V 5% TH 7/3/6/5
4	140	03-45-0473	1	C9		CAP FILM 47nF 16V 20% 1206
4	150	03-52-0470	2	C12,C24		CAP X7R 47pF 50V 10% 0805
4	160	03-52-0473	2	C16,C71		CAP X7R 47nF 50V 10% 0805
4	170	06-28-8418	4	D13,D24-D26		DIODE ZENER 18V 5% 350mW SOT-2 3 SM
4	180	11-10-0601	6	17-21,L15		FERRITE BEAD 600R @100MHz 1206 SM
4	190	11-10-2002	4	10,L2,L5,L8		FERRITE BEAD 600R @ 100MHz 300 mA 0805 SM
4	200	12-54-0084	1	U1		IC OP AMP QUAD TL084CD SM
4	210	21-00-6617	2	J2,J7		JACK 1/4" TRS PCB MOUNT 6 PIN HORIZONTAL W/CHROME HRDWARE TH
4	220	30-18-3030	2	GF2,GF5		CLIP GROUND PCB .30 x .30 x .07
4	230	30-51-0146	1	SH1	A	SHIELD PCB MT FOR 1/4 JACK 1.00 Hx1.25Wx.013THK BERYL COP
4	240	35-00-0165-1	1			PCB GUITAR INPUT LOW DOWN REV E A5 A17
3	48	50-02-0345-2	1			PCBA DIRECT OUT LOW DOWN A17-2 A17-3
4	10	03-52-0102	3	C4-C5,C41		CAP X7R 1nF 50V 10% 0805
4	20	03-52-0104	1	C3		CAP X7R 0.1uF 50V 10% 0805
4	30	06-28-0330	2	D27,D31		DIODE ZENER 3.3V 5% 500mW SOD- 123 SM
4	40	11-10-2012	3	L1,L3-L4		FERRITE BEAD 600R @ 100MHz 300 mA 0805 SM
4	50	21-08-0013	1	J1		JACK XLR MALE PCB MOUNT RIGHT ANGLE TH
4	60	24-01-0003	1	SW7		SWITCH LATCHING PUSH BUTTON SP DT 3 PIN SIL HORIZONTAL TH
4	70	30-18-3030	1	GF1		CLIP GROUND PCB .30 x .30 x .07
4	80	35-00-0165-2	1			PCB DIRECT OUT LOW DOWN REV E A5 A17
3	49	50-02-0345-3	1			PCBA HEADPHONE/PEDAL LOW DOWN A17-2 A17-3
4	10	01-24-1001	3	R13,R47,R131		RES 1.00K 1% 0805
4	20	03-46-0225	1	C99		CAP X7R 2.2uF 16V 10% 1206

4	30	03-52-0102	7	C23,C28-C31,C103-C104	CAP X7R 1nF 50V 10% 0805
4	40	03-52-0104	3	C21,C26-C27	CAP X7R 0.1uF 50V 10% 0805
4	50	11-10-2012	8	L6-L7,L9,L11-L14,L16	FERRITE BEAD 600R @ 100MHz 300 mA 0805 SM
4	60	21-00-6617	1	J5	JACK 1/4" TRS PCB MOUNT 6 PIN HORIZONTAL W/CHROME HRDWARE TH
4	70	21-12-0035	1	J6	JACK 3.5MM STEREO 5 PIN CRIMPE D LEADS NON-THREADED
4	80	21-16-0045	1	J8	JACK RJ-45 MOD 8/8 RT/A FEMALE PCB 50AU
4	90	30-18-3030	2	GF3-GF4	CLIP GROUND PCB .30 x .30 x .07
4	100	35-00-0165-3	1		PCB HP/CD/PEDAL LOW DOWN REV E A5 A17
3	50	50-02-0346	1		A PCBA PRE-AMP OUT LOW DOWN A17
4	10	01-24-1741	1	R2	RES 1.74K 1% 0805
4	20	01-24-6980	1	R1	RES 698R 1% 0805
4	30	03-52-0102	1	C31	CAP X7R 1nF 50V 10% 0805
4	40	03-52-0104	1	C21	CAP X7R 0.1uF 50V 10% 0805
4	50	11-10-2012	2	L12,L16	FERRITE BEAD 600R @ 100MHz 300 mA 0805 SM
4	60	21-00-6617	1	J5	JACK 1/4" TRS PCB MOUNT 6 PIN HORIZONTAL W/CHROME HRDWARE TH
4	70	21-20-0202	1	H9	HDR SIL PCB-MT 2 PIN x 2MM MAL E SHRD VERT MT TH
4	80	30-18-3030	1	GF3	CLIP GROUND PCB .30 x .30 x .07
4	90	35-00-0346	1		A PCB PRE-AMP OUT REV.A LOW DOWN A17
3	51	50-02-0347	1		PCBA TEMP SENSE LOW DOWN A17-3
4	10	01-70-0153	1	TM1	THERMISTOR NTC 15K @ 25C 3% 4 x 4.4 x 2.5MM TH
4	20	21-18-0002	2	MB1-MB2	TERMINAL SCREW PCB MOUNT RIGHT ANGLE SNAP-IN 6-32 THREAD
4	30	21-20-0202	1	H9	HDR SIL PCB-MT 2 PIN x 2MM MAL E SHRD VERT MT TH
4	40	35-00-0347	1		A PCB TEMP SENSE REV.A LOW DOWN A17-3
3	52	50-02-9314	1		A PCBA 700W POWER SUPPLY A17-3
4	1	01-12-02R7	2	R14-R15	RES CARBON FILM 2.7R 1/4W 5% TH
4	2	01-21-02R2	2	R12-R13	RES METAL OXIDE 2.2R 1W 5% TH
4	3	01-22-0472	2	R3,R7	RES METAL OXIDE 4.7K 2W 5% TH
4	4	01-22-0473	1	R2	RES METAL OXIDE 47K 2W 5% TH
4	5	01-22-0750	1	R6	A RES METAL OXIDE 75R 2W 5% TH
4	6	01-23-0510	1	R22	RES METAL OXIDE 51R 3W 5% TH
4	7	01-24-0000	2	R8-R9	RES 0R 1% 0805
4	8	01-24-1001	2	R1,R23	RES 1.00K 1% 0805
4	9	01-24-1002	5	R4,R10-R11,R17-R18	RES 10.0K 1% 0805
4	10	01-24-1003	2	R5-R6	RES 100K 1% 0805
4	11	01-24-2001	2	R20-R21	RES 2.00K 1% 0805
4	12	01-24-6041	1	R19	RES 6.04K 1% 0805
4	13	03-12-0688	1	C8	CAP ELEC 6800uF 16V 20% RADIAL
4	14	03-14-0107	1	C19	CAP ELEC 100uF 25V 20% RADIAL 6.3/11.2/5
4	15	03-16-0108	2	C12,C20	CAP ELEC 1000uF 35V 20% RADIAL
4	16	03-22-0109	2	C4-C5	CAP ELEC 10000uF 100V 20% 85C RADIAL 35/80/10 SNAP IN
4	17	03-23-0472	1	C9	CAP ELEC 4700uF 25V RADIAL
4	18	03-24-0223	4	C1-C3,C6	CAP MET POLY 22nF 250V 10% TH 10.3/4.4/7.5/7.5
4	19	03-24-2223	3	C7,C16,C18	CAP MET POLY 22nF 630V 5% TH AXIAL 16.5/7/7/22.5
4	20	03-41-0224	1	C17	CAP X-CAP 0.22uF 275VAC 20% POLYPROPYLENE 18/9.5/17.5/15
4	21	03-52-0104	3	C13-C15	CAP X7R 0.1uF 50V 10% 0805
4	22	03-75-0102	2	C10-C11	CAP Y-CAP 1nF 250VAC 20% TH CER DISC 7D/7/7.5
4	23	06-04-4002	13	D1,D3-D14	DIODE SMALL-SIGNAL 100V 30A DO-41 AXIAL TH 1N4002
4	24	06-16-1206	1	D2	DIODE BRIDGE RECTIFIER 12A 600 V TH
4	25	06-34-0016	1	D15	DIODE SWITCHING 75V 200mA 6nS SOT-23 SM

4	26	09-10-4401	1	Q1
4	27	09-10-5401	1	Q2
4	28	09-10-6102	1	Q3
4	29	12-02-7815	1	U2
4	30	12-54-0072	1	U4
4	31	21-18-0250	2	H7-H8
4	32	21-20-0202	2	H2,H9
4	33	21-20-0210	1	H5
4	34	21-20-1564	1	H14
4	35	21-20-1568	2	H1,H3
4	36	21-20-2010	1	H6
4	37	21-20-6010	1	H4
4	38	21-48-9521	4	F1-F2
4	39	24-15-0009	2	RY1-RY2
4	40	24-19-6325	2	
4	41	35-00-9314	1	
3	53	50-02-9316	1	

TRANS NPN SMALL SIGNAL SOT-23 SM
TRANS SS PNP 150V HV SOT-23
TRANS N-CHANNEL MOSFET SOT-23 SM
IC REG +15V 1AMP TO-220 TH
IC OP AMP DUAL TL072 SM
CONN TAB FAST TIN PCB .250" x .032" MALE TH
HDR SIL PCB-MT 2 PIN x 2MM MAL E SHRD VERT MT TH
HDR SIL PCB-MT 10 PIN x 2MM MA LE SHRD VERT MNT TH
HDR SIL PCB-MT 4 PIN x .156 MA LE VERT MNT FRIC LOCK
HDR SIL PCB-MT 8 PIN x .156 MA LE VERT MNT FRIC LOCK
HDR DIL PCB-MT 10 PIN 2 x 5 x 100 MALE SHRD VERT
HDR SIL PCB-MT 10 PIN x .156 M ALE VERT MNT FRIC LOCK TH
HOLDER FUSE CLIP
RELAY DPDT POWER 8A 24VDC PCB TH
FUSE 6.3A 250V 5MM x 20MM DOM F
D PCB 700W POWER SUPPLY REV.D A17- 3
POWER AMPLIFIER MODULE 700W HYPEX A17-3