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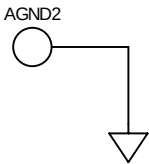
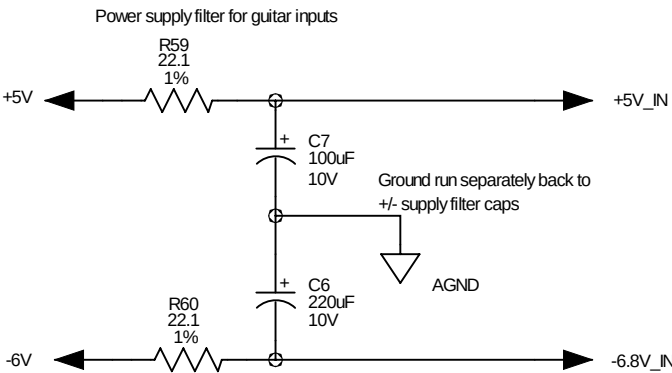
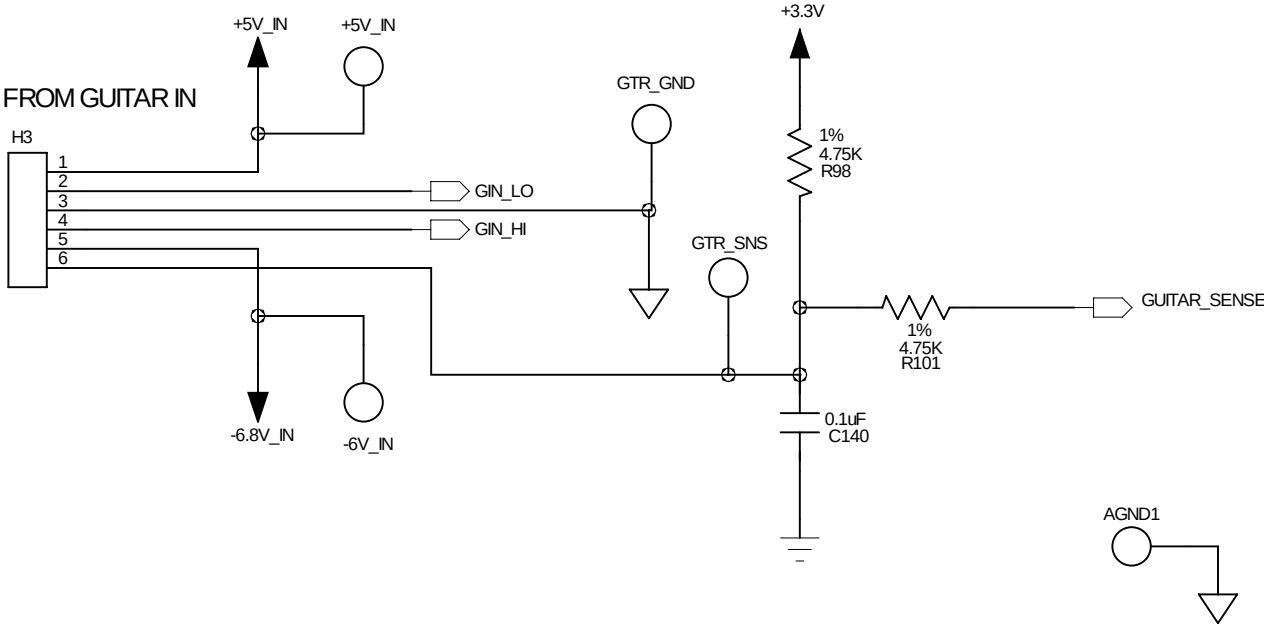
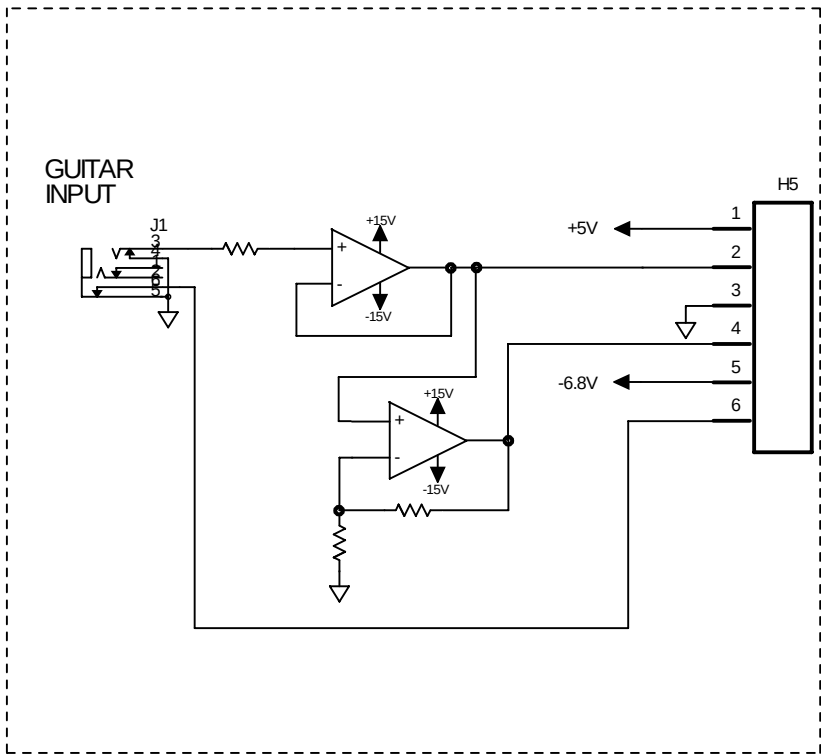
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ECOs INCLUDED ON THIS SCHEMATIC/PCB REVISION		
ECO NO:	DATE:	DESCRIPTION:
0703704	02.06.07	Releasing Rev D. Gerber changes only.

FROM GUITAR IN BRK-WY



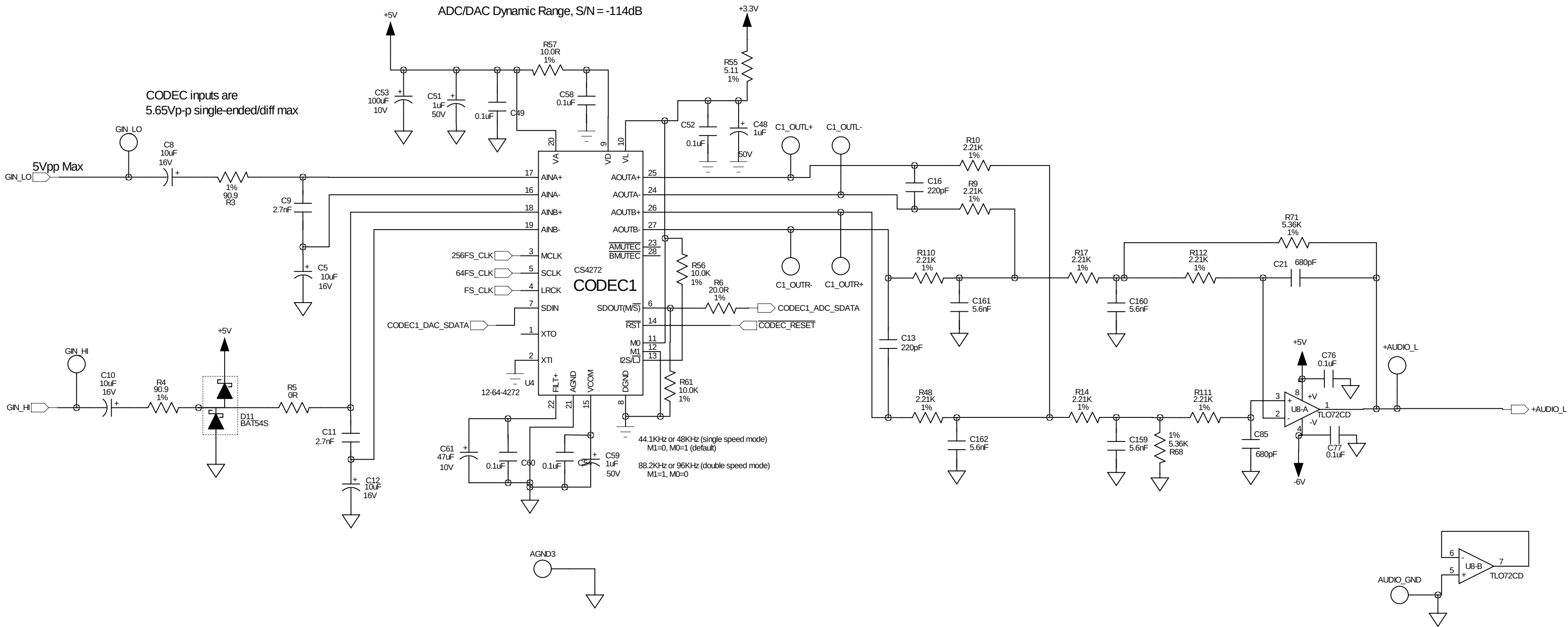
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COMPANY:		LINE 6	
TITLE:		SPIDER VALVE MKII MAIN GUITAR IN	
PROGRAM:		PADS LOGIC 2007	REV:
FILENAME:			B
SCALE: 1:1	SIZE: C	PART NUMBER: 35-00-9325	SHEET: 1 7

DRAWN:	DATED:
GK, DAB	07-07-09
CHECKED:	DATED:
review panel	

CODEC1

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

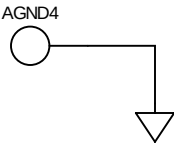


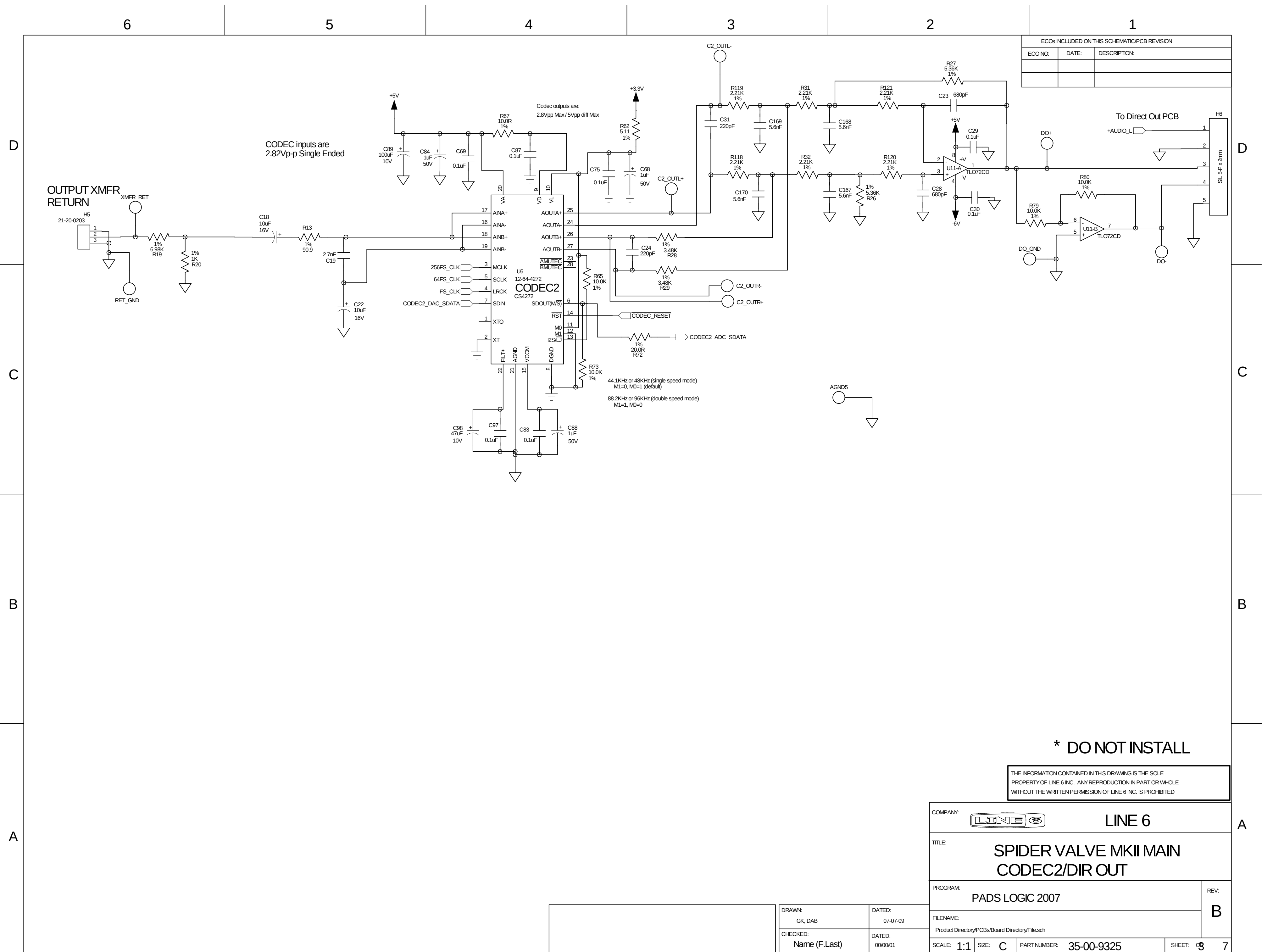
* DO NOT INSTALL

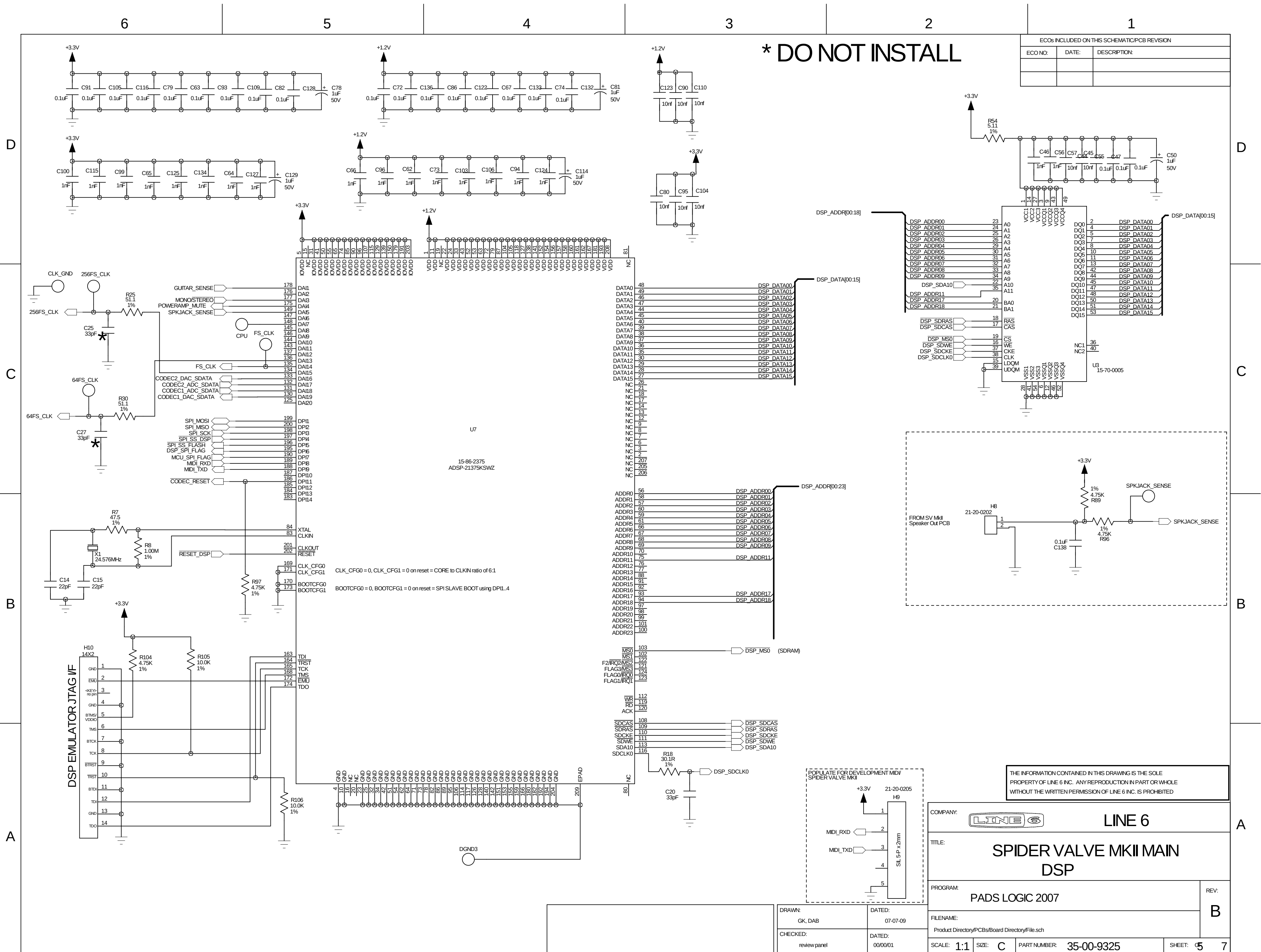
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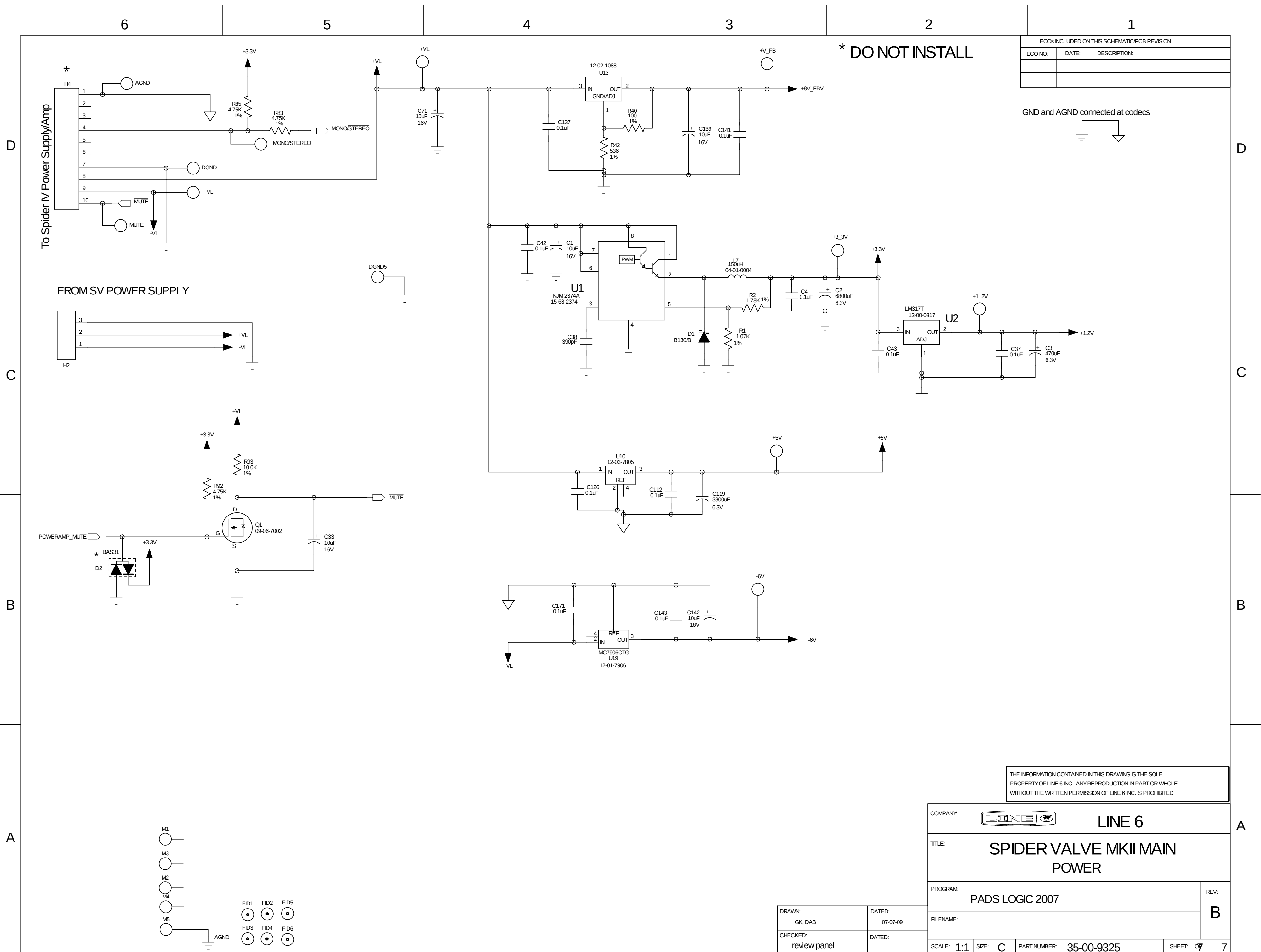
COMPANY:	LINE 6	REV:	B
TITLE:	SPIDER VALVE MKII MAIN CODEC1	PROGRAM:	PADS LOGIC 2007
FILENAME:		SCALE:	1:1
SIZE:	C	PART NUMBER:	35-00-9325
SHEET:	2	SHEET:	7

DRAWN:	DATED:
GK, DAB	07-07-09
CHECKED:	DATED:
review panel	



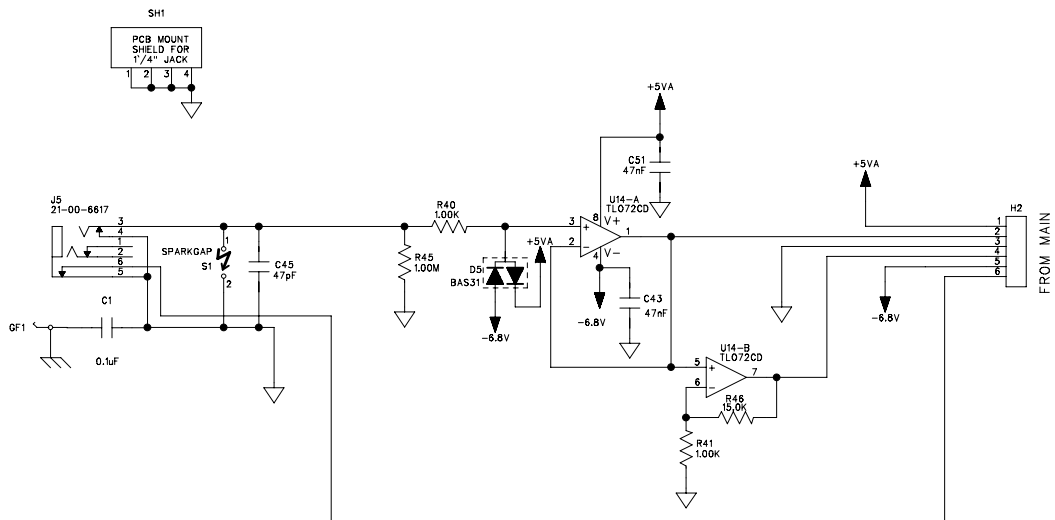






ECOs INCLUDED ON THIS SCHEMATIC/PCB REVISION		
ECO NO:	DATE:	DESCRIPTION:
0703704	02.06.07	Releasing Rev D. Gerber changes only.

GUITAR IN



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COMPANY:	LINE 6	
TITLE:	A21-3/4/5/7 SPIDER IV GUITAR INPUT	
PROGRAM:	PADS LOGIC 2007	REV: A
FILENAME:		
SCALE: 1:1	SIZE: C	PART NUMBER: 35-00-9330
SHEET: 1 OF 1		

DRAWN:	DATED:
GK	03-12-09
CHECKED:	DATED:
review panel	

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ECOs INCLUDED ON THIS SCHEMATIC/PCB REVISION

ECO NO: DATE: DESCRIPTION:

INPUT

MASTER VOLUME
POT

H4 for tube bias adjust

BP

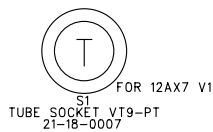
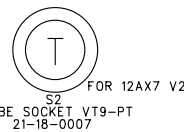
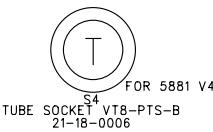
AP

TO OUTPUT TRANSFORMER
PRIMARY

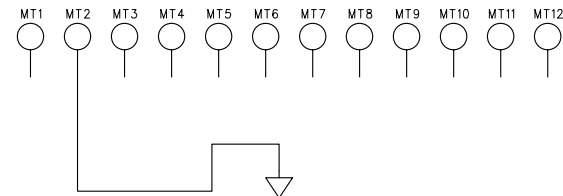
FEEDBACK

PRESENCE POT

TUBE SOCKETS

TUBE SOCKET VT9-PT
21-18-0007TUBE SOCKET VT8-PTS-B
21-18-0006TUBE SOCKET VT9-PT
21-18-0007TUBE SOCKET VT8-PTS-B
21-18-0006

BOARD MOUNTING HOLES



DESIGN BY REINHOLD BOGNER

PRELIMINARY DRAWINGS
FOR QUOTATION PURPOSES ONLY
DO NOT USE FOR PRODUCTIONDRAWN:
D. MOLNAR
CHECKED:
review panelDATED:
6/26/2007
DATED:

COMPANY:



TITLE:

A15: POWER AMP / SUPPLY

PROGRAM:

PADS LOGIC 2004

FILENAME:

SCALE: 1:1

SIZE: C

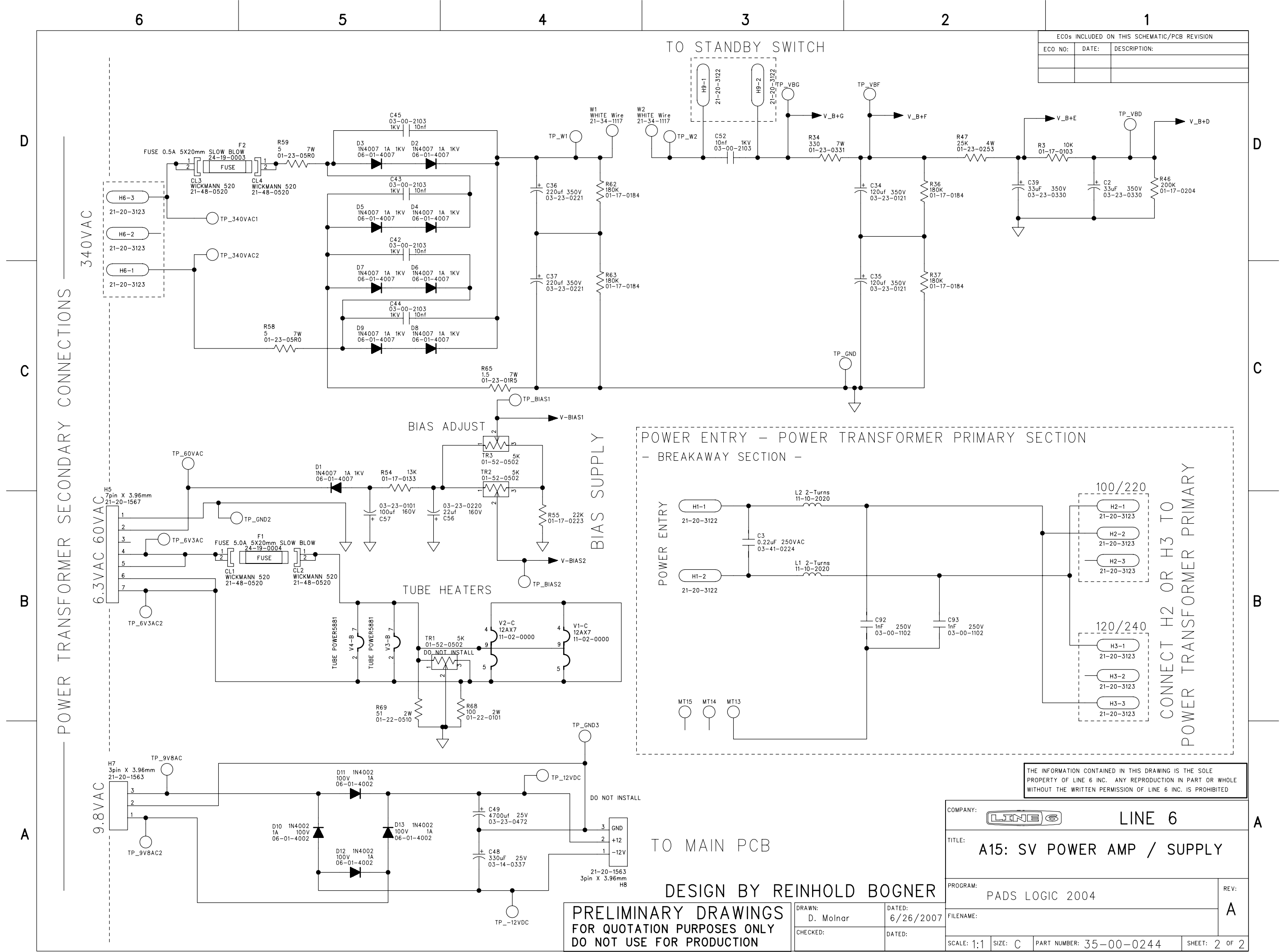
PART NUMBER: 35-00-0244

SHEET: 1 OF 2

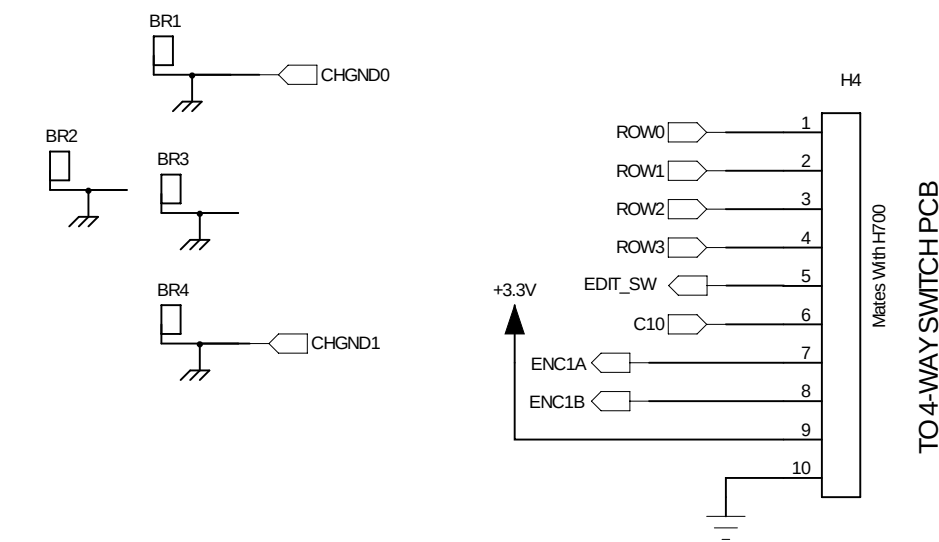
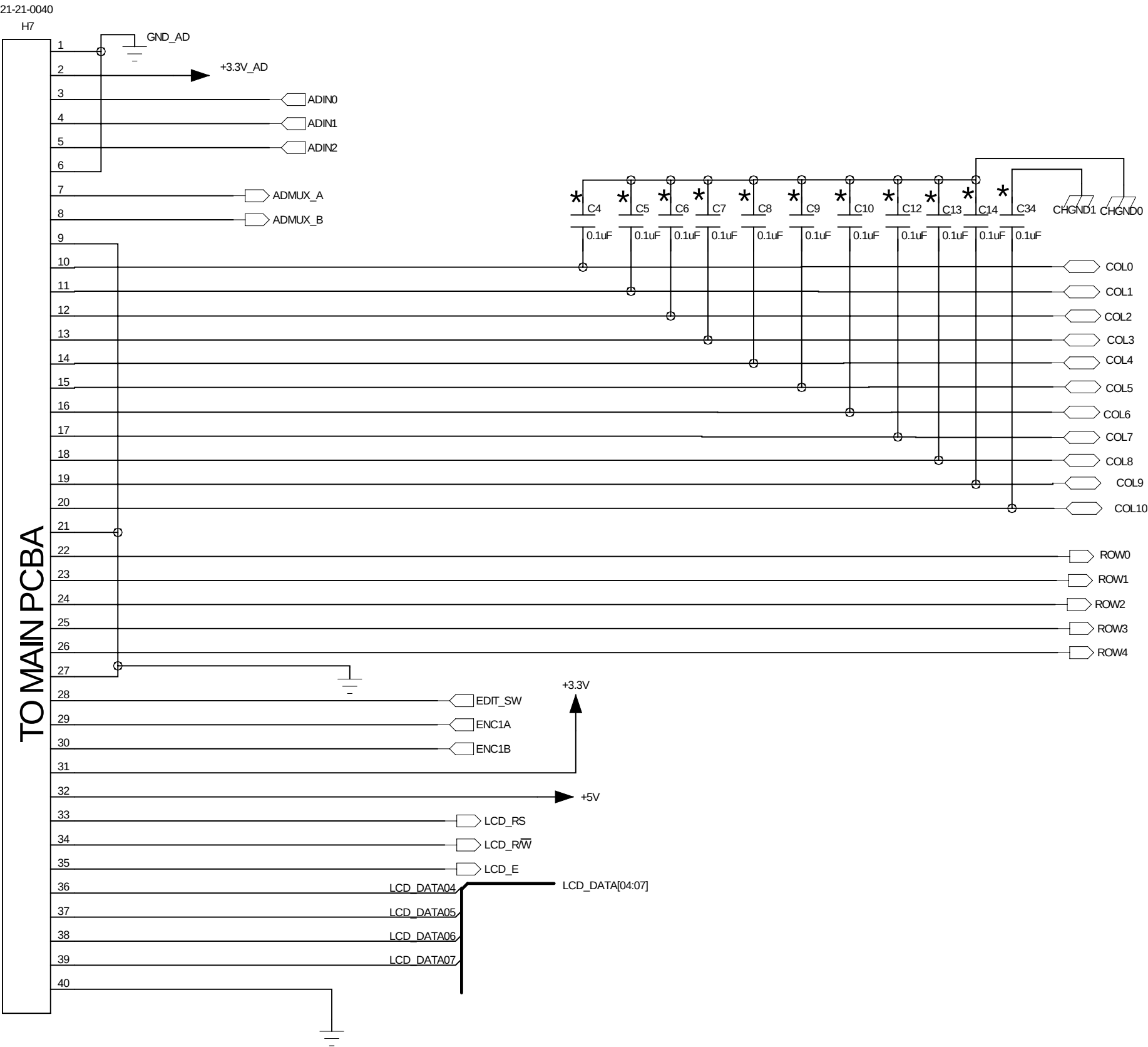
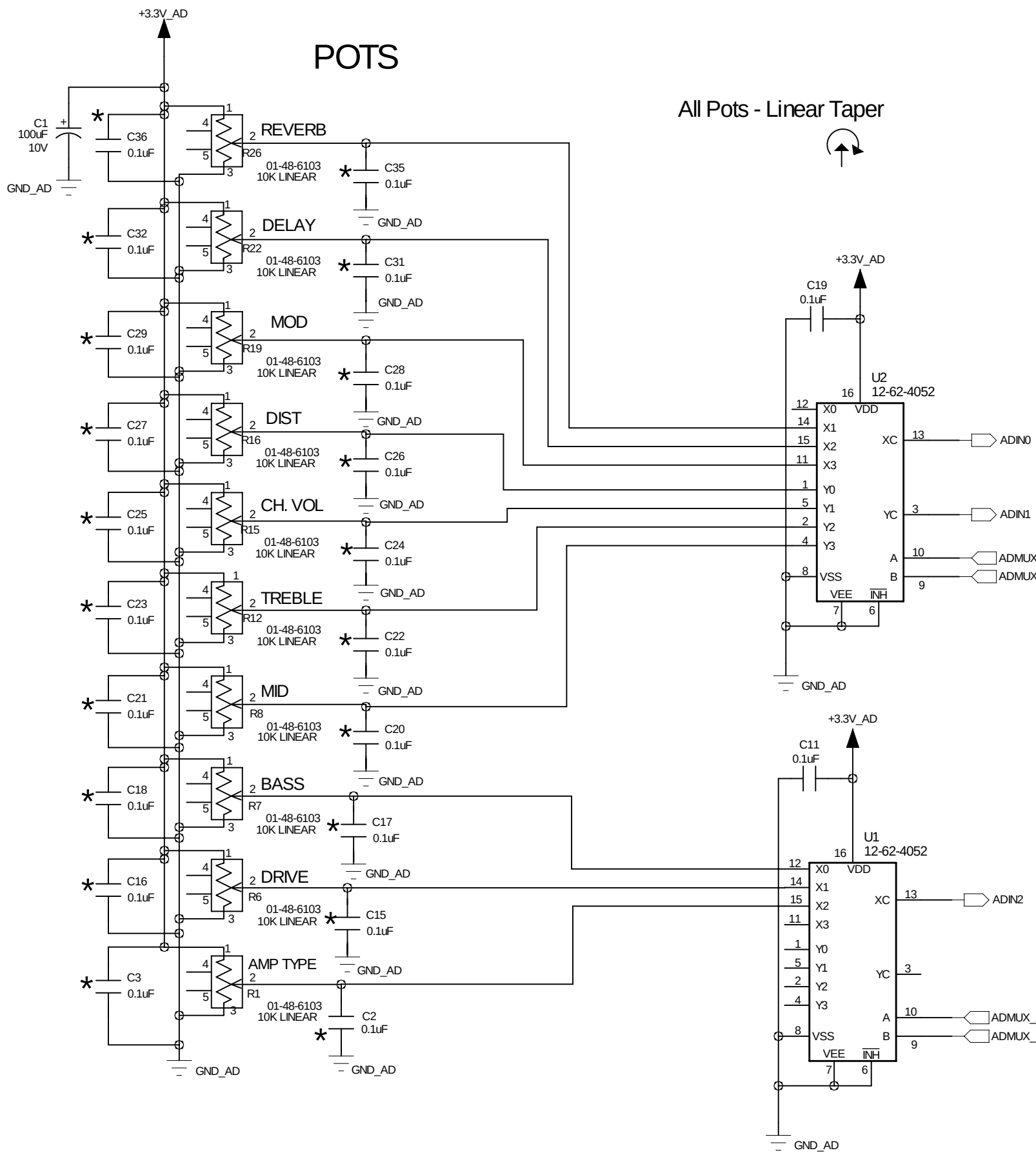
REV:

A

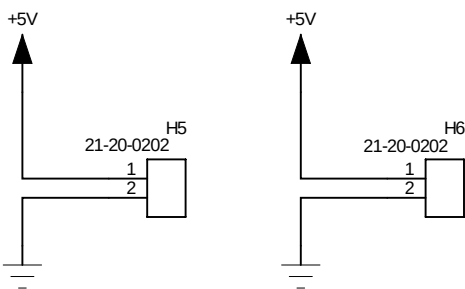
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ECOs INCLUDED ON THIS SCHEMATIC/PCB REVISION		
ECO NO:	DATE:	DESCRIPTION:
0615806	06.07.2006	No schematic change. Revised location of R15/R18.
0616002	06.09.2006	Added text for breakaways Released as rev.B1



POWER FOR LED BOARD OPTION ON HEAD



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COMPANY: LINE 6		REV: A	
TITLE: A23: SPIDER VALVE MKII UI PCB POTS/HEADER		PROGRAM: PADS LOGIC 2007	
FILENAME: A23 Spider VALVE MKII UI Rev A.sch		SHEET: 1 3	
SCALE: 1:1 SIZE: C PART NUMBER: 35-00-9326		DRAWN: GK DAB DATED: 05-29-09	
CHECKED: DATED:		REV: A	

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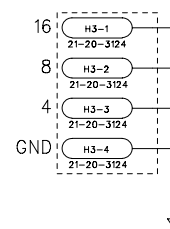
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ECO#s INCLUDED ON THIS SCHEMATIC/PCB REVISION		
ECO NO:	DATE:	DESCRIPTION:

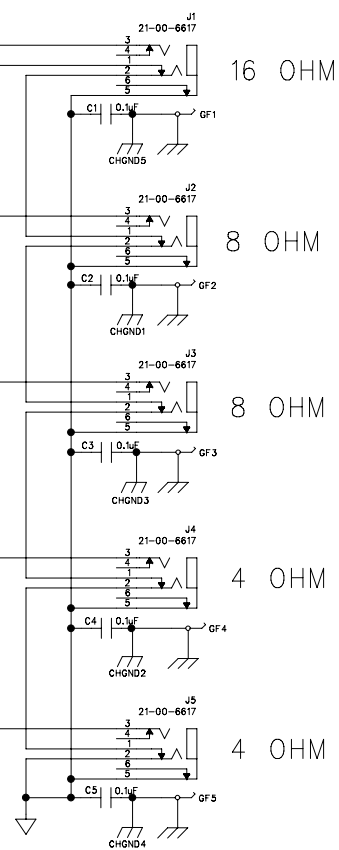
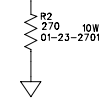
SPEAKER JACK SENSE
TO MAIN PCB



POWER AMPLIFIER
TRANSFORMER
SECONDARY



FEEDBACK TO
POWER AMPLIFIER



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COMPANY:		LINE 6	
TITLE:		A23 SV100 MKII SPEAKER OUT	
PROGRAM:		PADS LAYOUT 2007	REV: A
FILENAME:			
SCALE: 1:1	SIZE: C	PART NUMBER: 35-00-9329	SHEET: 1 OF 1

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DRAWN:	gk	DATED:	03-12-09
CHECKED:	review panel	DATED:	

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

D

D

C

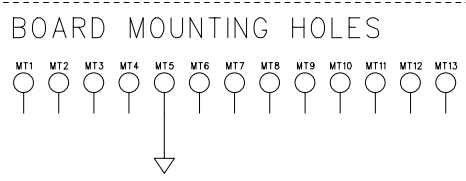
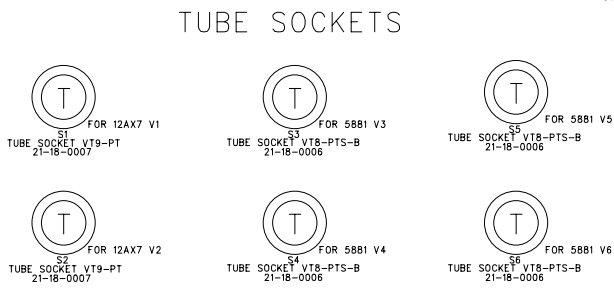
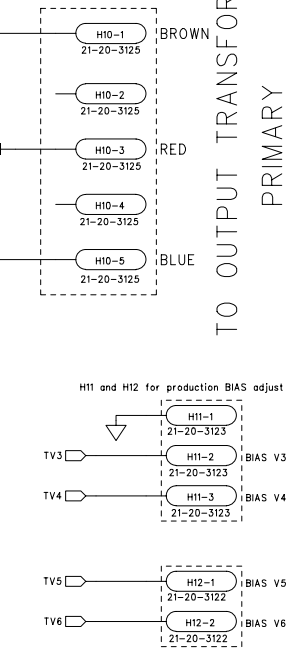
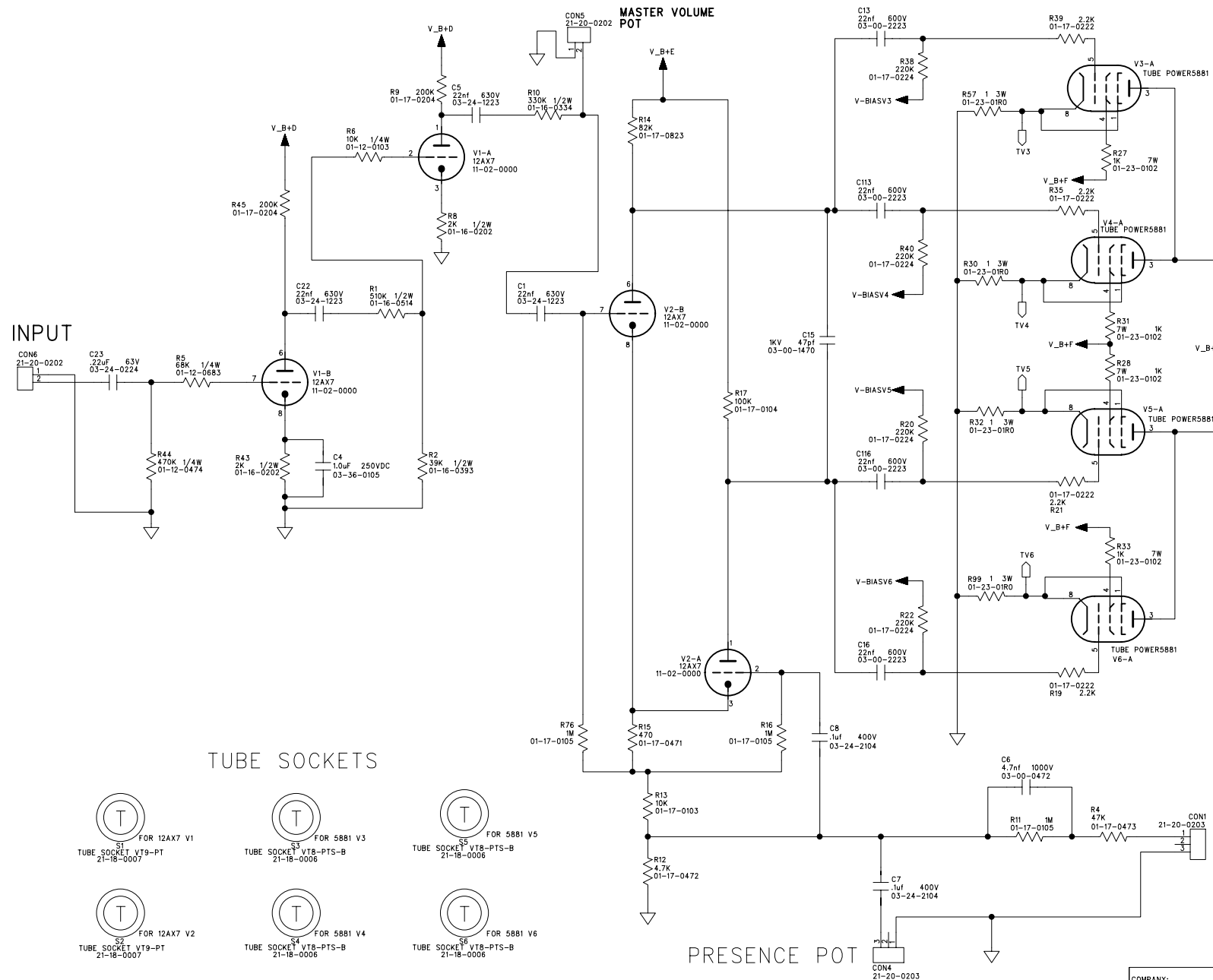
C

B

B

A

A



PRESENCE POT

FEEDBACK

PRELIMINARY DRAWINGS
FOR QUOTATION PURPOSES ONLY
DO NOT USE FOR PRODUCTION

DESIGN BY REINHOLD BOGNER

DRAWN: D. MOLNAR
CHECKED: review panel
DATED: 8/7/2007

COMPANY: LINE 6	
TITLE: A15: SV100 POWERAMP-SUPPLY	
PROGRAM: PADS LOGIC 2004	REV: A
FILENAME:	
SCALE: 1:1	SIZE: C
PART NUMBER: 35-00-0245	SHEET: 1 OF 2

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Spider Valve MkII Branded Main PCBA Part Numbers

Part Number	Model Description
50-02-9325-1	PCBA MAIN SPIDER VALVE MKII 112 BRANDED A23-2
50-02-9325-2	PCBA MAIN SPIDER VALVE MKII 212 BRANDED A23-3
50-02-9325-3	PCBA MAIN SPIDER VALVE MKII HEAD BRANDED A23-4



Spider Valve MKII 40, 50, 100H Biasing Notes.

The Spider Valve series amplifiers ship stock with a matched pair of Sovtek 6L6/ 5881 power tubes. Anytime these are replaced or service is performed, a bias routine should also be performed.

Now for some Q&A.

Q: What is Biasing?

A: Simply put, *Biasing* is the procedure of setting the correct idle current flowing through the tubes for optimum sound, life span, and operating temperature. Achieving this ideal setting will vary depending on the type and rating of the power amp tubes used. Incorrect biasing (under or over biasing) can result in poor amplifier sound, performance, or failure.

Q: Is Biasing covered under warranty?

A: Typically not. It should be considered as part of the routine maintenance in keeping your amplifier at its peak performance. However, if re-biasing is required as part of other warranty service, it will be covered under the warranty policy.

Now that that's out of the way. Let's get down to some specifications.

Using Ohm's Law and measuring across a precision 1Ω resistor, we know that $1\text{mV} = 1\text{mA}$, we want to establish a good starting bias point for the matched output tubes.

Our general rule specification is: **35mV, +/- 2mV**. This swing should account for most 6L6/5881 tubes available from Line 6 as well as on the market.

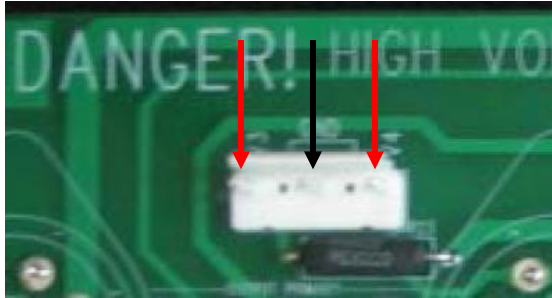
NOTE: The most important thing is to replace both tubes with a matched pair. Installing other tubes, such as EL34/KT77 is **NOT** supported, and any failure due to incorrect or forced biasing of such tubes will void the warranty.

Bias Adjustment- SV MkII- 112 and 212 Combos.

Option #1

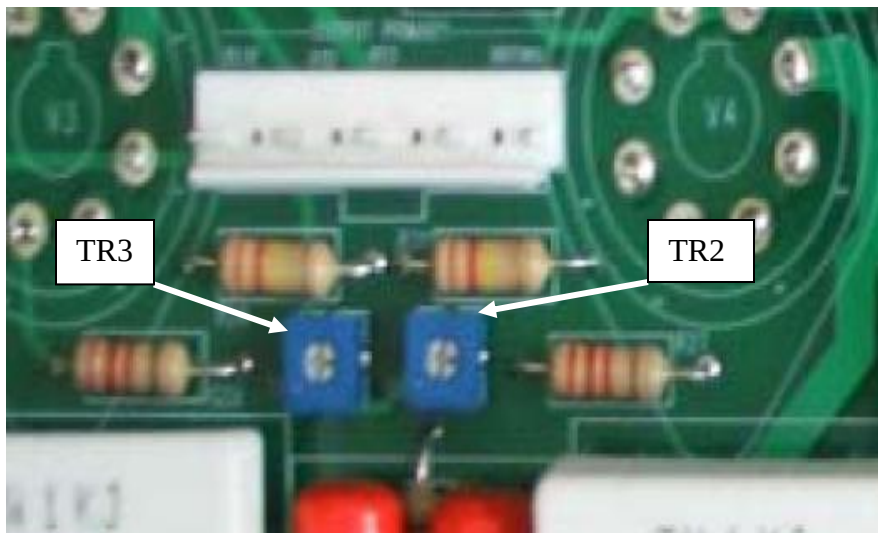
After replacing the output tubes, with the amp connected to a load (either a speaker or a load resistor @ 8Ω), turn the power on, set the master volume control to 0, and then flip the standby switch.

On the tube circuit board you'll notice a cable header connector identified as: H4. These are your bias test point.



Going from left to right on the header you'll see a +V test point for V3 (Valve #3), a common shared ground, and finally a +V test point for V4 (Valve #4).

Just south of the bottom through holes for the tube sockets are the relative trim pots to facilitate setting the bias on tubes V3 and V4.



Both of these trim pots have changed from 5K to 20K pots during initial release. The 20K will allow for greater variance range in setting the bias for the tubes.

With your meter connected to the test points you should turn these trim pots until your meter reads the above spec of 35mV, +/- 2mV.

Because we have a dual pot design, interaction is likely to occur, as new tubes require a settling in period of up to two days to become stable in plate current (think back to your old Radiotron Designers handbook). Running the amp for this amount of time, under load, and monitoring changes in bias is recommended.

Option #2

Once you've established your bias for V3, you may put your meter probes across the positive (+) pins. Your meter should read 0mV/ 0 mA.

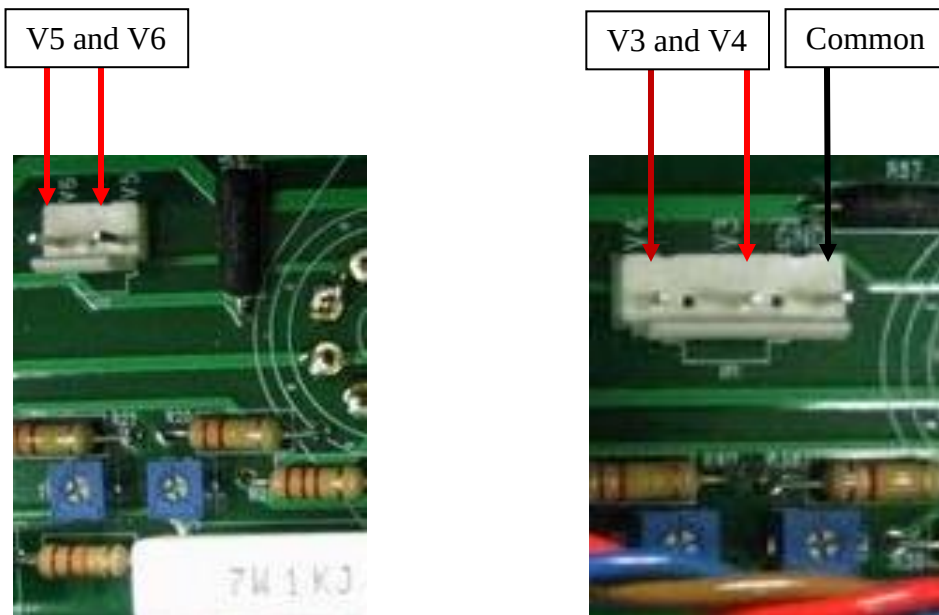
Now that we've covered the bias specification, use your ears. Does it sound right? If so, leave well enough alone. If not, adjust in +/- 1mV increments/decrements until it does. Most importantly be safe.

Bias Adjustment- SV MkII- HD100 Head.

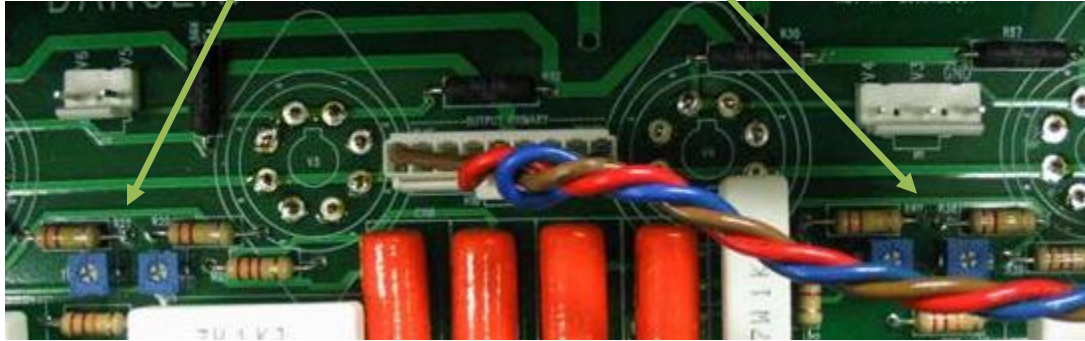
Similar to the combo amps, the Spider Valve HD100 has bias test point provisions in the way of header connectors and adjustment via 20K trim pots. The reference designators have changed, however; and they are as follows.

After replacing the output tubes, with the amp connected to a load (either a speaker or a load resistor @ 8 Ω), turn the power on, set the master volume control to 0, and then flip the standby switch.

On the tube circuit board you'll notice 2 cable header connectors identified as: H11 and H12. These are your bias test points.



Just south of the bottom through holes for the tube sockets are the relative trim pots to facilitate setting the bias on tubes V3, V4, V5, and V6 respectively.



With your meter connected to the test points you should turn these trim pots until your meter reads the above spec of 35mV, +/- 2mV.

Because we have a dual pot design, interaction is likely to occur, as new tubes require a settling in period of up to two days to become stable in plate current (think back to your old Radiotron Designers handbook). Running the amp for this amount of time, under load, and monitoring changes in bias is recommended.

Option #2

Once you've established your bias for V3, V4, V5, and V6 you may put your meter probes across the positive (+) pins. Your meter should read 0mV/ 0 mA.

Now that we've covered the bias specification, use your ears. Does it sound right? If so, leave well enough alone. If not, adjust in +/- 1mV increments/decrements until it does. Most importantly be safe.

99-011-0705 - A23-2 SPIDER VALVE MKII 112 US			
Part Number	Description	Qty	Refdes
21-37-1160	CBL PWR UL/CSA SJT 8.2FT BLK E L-302 w/GND EL70	1	
40-00-0233	MANUAL QUICK START GUIDE SV MKII A23	1	
40-01-0016	CARD LICENSE-AGREEMNT END-USER ALL-PRODUCTS	1	
40-03-0031	CARD REGISTRATION UK	1	
40-03-2000	CARD REGISTRATION US	1	
40-03-2000-1	CARD REGISTRATION EUROPE	1	
40-10-0211	ENDCAP FOAM SHIPPING TOP SV COMBO A15	2	
40-10-0212	ENDCAP FOAM SHIPPING BOTTOM SV COMBO A15	2	
40-10-0295	CARTON GIFT SV MKII 112 A23-2	1	
40-10-0298	CARTON SHIPPING SV MKII 112 A23-2	1	
40-15-0022	SILICA GEL PACK 3.0" x 3.5"	3	
40-15-0023	ANTISEPTIC PACK (5g/package)	1	
40-20-0011	BAG PLASTIC 10 x 16 2 mil	1	
40-20-0016	BAG PLASTIC 40" W x 38" H CLEAR 4 MIL A15-1	1	
40-25-0020	LABEL INSPECTION QUALITY	1	
40-25-0024	STICKER ART SEAL EULA	1	
40-25-0083	STICKER CARB WOOD CABINET	1	
40-25-0100	LABEL BAR CODE SERIAL NUMBER 4-PANEL LABEL	1	
40-25-0148	LABEL ETL RYDER 2"X 1" INTERTEK	1	
59-00-1812	ASSY UNIT-COMplete SV MKII A23-2 US 120V	1	
59-00-1812	ASSY UNIT-COMplete SV MKII A23-2 US 120V	1	
Part Number	Description	Qty	Refdes
11-20-1004	SPEAKER 12" 8 OHM CELESTION VINTAGE 30 T3903A	1	
21-34-0098-1	CBL 1/4" RT ANGLE TO DUAL .205 20.0" 18AWG QUICK CONNECT	1	
30-00-0033	SCREW 10-24 x7/8 TRUSS HD PHH BLK	4	
30-00-0072	SCREW WOOD #10 x 1-1/4" OVAL H D PB	6	
30-00-0676	SCREW WOOD NO.6 x 3/4" PHIL OVAL HD BLK	2	
30-00-0812	SCREW w/WAX 8 x 3/4 PTB	1	
30-00-0858	SCREW #8 x 5/8IN PHIL-TRUSS BLACK w/WAX	3	
30-00-1129	SCREW 10-32 x 1-1/4 OVAL CTSK PB STL w/PILOT TIP	4	
30-00-9358	SCREW #3 x1/2 IN OVAL PHILLIPS BLACK (SUB FOR 30-00-0358)	4	
30-03-0035	WASHER #10 SPLIT LK WASH ZINC	4	
30-03-0112	WASHER FINISHING #10 FLANGED STL BLK OXIDE	10	
30-03-1010	WASHER #10 FLAT .20-.25 ID, .45-.55 OD, .04-.05 THK ZINC	4	
30-21-0007	STRAIN RELIEF- CABLE 3/8" x .2 5 O.D. NYLON BLACK A15	1	
30-27-0272	LOGO BOGNER 2.8 X 1.0 X 0.1 AB 5 BLACK W/SILVER MTLc FILM A15 & A23	1	
30-27-0273	MESH LOGO FRAME 19.2 X .9 X .07 ABS BLACK A15-1 & A23-2	1	
30-51-0300	FRAME LOGO 112 20.8 X 1.3 X 1.1 STEEL A15-1 & A23-2	1	
30-60-0005	LOGO LINE 6 MED 139.70x28.63MM BRUSHED/BLACK FINISH ALUMINUM	1	
30-63-0600-1	FOAM W/ADHESIVE 6.0" X 0.25" X 0.06" VOLARAPOLELEFIN	2	
30-65-0020	TAPE SHEET 3M 468 10MM x 20MM A15	2	
30-65-0021	TAPE SHEET 3M 468 10MM x 130MM A15	1	
40-25-0197	STICKER SPEAKER-GRILL PROMO SV MKII 112 A23-2	1	
50-03-0081	ASSY CAB SVMKII 112 A23-2	1	

50-03-0081	ASSY CAB SVMKII 112 A23-2	1	
Part Number	Description	Qty	Refdes
30-00-0121	SCREW WOOD #6 x 1.25 PHH FLH BLK	12	
30-00-0122	SCREW 10-24 x 0.7 OVH PHILLIPS NI PLD / CRM	4	
30-00-0812	SCREW w/WAX 8 x 3/4 PTB	8	
30-06-1024	NUT-T 10-24 X 5/16 STEEL	8	
30-27-0280	PIPING SV AMPS (A15)	51	
30-30-1530	CORNER PROTECTOR 2 LEG CUT OUT METAL BLACK	4	
30-36-0009	COVER VINYL SV VINYL	5.2	
30-39-0013	GRILL CLOTH BLACK SPIDER3	1.2	
30-57-0001	HANDLE CABINET PVC BLACK W/CHROME BRACKETS	1	
30-75-0008	RUBBER FOOT 1.50" I.D. X .75"H BLACK	4	
50-04-0293	ASSY E/M CHASSIS SV MKII 112 A23-2 US 120V	1	
50-04-0293	ASSY E/M CHASSIS SV MKII 112 A23-2 US 120V	1	
Part Number	Description	Qty	Refdes
11-02-0000	VALVE 12AX7	2	
11-02-0001	VALVE 5881/6L6 MATCHED PAIR	1	
11-30-0027	XFMR 100/120VAC 170/60/9.8/6.3 SV A15-1/A15-2	1	
11-33-0017	XFMR OUTPUT SPIDER VALVE A23-2 A23-3	1	
21-34-0085-2	CBL ASSY 5 COND 26AWG F/F X 5 "	2	
21-34-0085-3	CBL ASSY 5 COND 26AWG F/F X 6 "	1	
21-34-0090-1	CBL ASSY RIBBON 40 POS 28AWG 2 0 X 2 F/F X 5"	1	
21-34-0093	CBL ASSY SIL 1 COND 26AWG 2.0M M PITCH 4.0" CON1-CON2	1	
21-34-0095	CBL SIL 3 COND 18AWG 3 PIN 5.5" x .156" PITCH WHITE	1	
21-34-0097-1	CBL ASSY 3 PIN SIL 2 COND 7.0" 26AWG SHIELD	1	
21-34-0097-2	CBL ASSY 3 PIN SIL 2 COND 12.0" 26AWG SHIELD	1	
21-34-0100-2	CBL ASSY 3 PIN TO 2 PIN SIL 9.0" 26AWG SHLD	1	
21-34-0101-3	CBL ASSY 2 PIN SIL 11.0" 26AWG SHLD	1	
21-34-0111	CBL ASSY 6 COND 26AWG F/F X 6	1	
21-34-0135-2	CBL ASSY 18AWG 3 PIN SIL 9.5" x 9.5" x .250 RCPT WHITE/WHITE	1	
21-34-0135-6	CBL ASSY 18AWG 3 PIN SIL 4" x 7" X .250 RCPT WHITE/BLK	1	
21-34-1023-3	CBL FSTN .205-RCPT/.250-RCPT 1-COND 18AWG 9" BLK	1	
21-48-0004	HOLDER FUSE PANEL MOUNT SHOCK SAFE 500V	1	
21-48-0005	FUSE CAP No. .816 FOR 6.3 x 32M M	1	
24-03-0003	SWITCH TOGGLE SPST ON-OFF SHOR T BAT 250V 10A 2 x QC PNL MNT	2	
24-19-0005	FUSE 0.5A 250V SLOW BLOW 3AG	1	
24-19-3250	FUSE 2.5A 250V 5MM X 20MM SLO- BLO VDE CERTIFIED	1	
30-00-0042	SCREW SHEET METAL 4 x 0.375 IN SELF-TAP PPB	2	
30-00-0043	SCREW 6-32 X 5/16 LG WITH LOCK WASHER PHIL PAN ZINC-PLATED STEEL	24	
30-00-0125	SCREW 8-32 x 5/16 W/LK WASH PP H BLK STL	8	
30-00-0126	SCREW #5-40 x 0.300 PHP SELF - TAP STL	4	
30-00-0128	SCREW 6-32 x .375 W/LK WASH PP H BLK	6	
30-00-0150	SCREW 4-40 x .3125 w/LK WASH PAN HD PHIL ZINC	5	
30-00-0375	SCREW 6-32 x .375 PPB	2	
30-03-0038	WASHER .91 O.D. x .51 I.D. x .08 THK NYLON (A15)	4	
30-06-0832	NUT .335 HEX 8-32 STL ZINC W/ TOOTH WASHER	4	
30-15-0004	SPACER .13 THICK x .630D NYLON	6	
30-21-0005	RETAINER TUBE EL34 STYLE	2	
30-24-0003	CABLE TIE 4" CLEAR	5	
30-27-0277	LIGHT PIPE .10 DIA X .34 LG CLEAR PC A15 & A23	17	
30-27-0278	SHIELD LIGHT PIPE .19 DIA X .2 6 LG ABS BLACK A15 & A23	17	
30-27-0410	BEZEL LCD 2.0 X 0.75 PC CLEAR A23	1	
30-42-0063-1	OVERLAY UI 112 20.8 X 2.4 X .0 3 ALUMINUM A23-2	1	
41-01-0029	ARTWORK OVERLAY FRONT PANEL SV MKII 112 A23-2	1	
30-45-0020	KNOB 0.84 DIA X 0.6 HIGH UREA PHENOLIC BLACK A15 & A23	12	
30-45-0027	KNOB ENCODER .55 DIA X .50 HT ABS BLK A21 A23	1	
30-51-0113	LENS JEWEL D.610 x H.654" METAL BASE w/NUT CLEAR	1	
30-51-0310	TUBE CAGE 4 X 4.5 X 2.2 X .06" STEEL BLACK A15-1/A15-2 & A23-2/A23-3	1	
30-51-0392-1	CHASSIS 112 20.8"W X 7.8"D X 3.8"H STEEL A23-2	1	
41-00-0254	ARTWORK SILKSCREEN REAR CHASSIS SV MKII 112 A23-2	1	
30-63-0030-1	FOAM W/ADHESIVE 1 SIDE 20.7" X .25" X .15" A15-1	1	

50-00-0001	ASSY RECEPTACLE-A/C W/GND WIRE SNAP-IN	1	
Part Number	Description	Qty	Refdes
50-00-0001	ASSY RECEPTACLE-A/C W/GND WIRE SNAP-IN	1	
21-14-0002	JACK IEC w/FUSE MALE 3 PIN PAN EL MOUNT SNAP IN VERT	1	
21-34-1116	CBL EARTHING w/EYELET 16AWG 5" GREEN w/YELLOW STRIPE	1	
50-02-0244	PCBA POWER AMP/SUPPLY SV 40/50 A15-1 A15-2	1	
Part Number	Description	Qty	Refdes
50-02-0244	PCBA POWER AMP/SUPPLY SV 40/50 A15-1 A15-2	1	
01-12-0103	RES CARBON FILM 10K 1/4W 5% TH	1	R6
01-12-0474	RES CARBON FILM 470K 1/4W 5% TH	1	R44
01-12-0683	RES CARBON FILM 68K 1/4W 5% TH	1	R5
01-16-0202	RES CARBON FILM 2K 1/2W 5% TH	2	R8,R43
01-16-0334	RES CARBON FILM 330K 1/2W 5% TH	1	R10
01-16-0393	RES CARBON FILM 39K 1/2W 5% TH	1	R2
01-16-0514	RES CARBON FILM 510K 1/2W 5% TH	1	R1
01-17-0103	RES CARBON FILM 10K 1W 5% TH	2	R3,R13
01-17-0104	RES CARBON FILM 100K 1W 5% TH	1	R17
01-17-0105	RES CARBON FILM 1M 1W 5% TH	3	R11,R16,R18
01-17-0113	RES CARBON FILM 11K 1W 5% TH	1	R55
01-17-0133	RES CARBON FILM 13K 1W 5% TH	1	R54
01-17-0184	RES CARBON FILM 180K 1W 5% TH	4	R36,R37,R62,R63
01-17-0204	RES CARBON FILM 200K 1W 5% TH	3	R9,R45,R46
01-17-0222	RES CARBON FILM 2.2K 1W 5% TH	2	R25,R27
01-17-0224	RES CARBON FILM 220K 1W 5% TH	2	R24,R26
01-17-0471	RES CARBON FILM 470R 1W 5% TH	1	R15
01-17-0472	RES CARBON FILM 4.7K 1W 5% TH	1	R12
01-17-0473	RES CARBON FILM 47K 1W 5% TH	1	R4
01-17-0682	RES CARBON FILM 6.8K 1W 5% TH	1	R54
01-17-0823	RES CARBON FILM 82K 1W 5% TH	1	R14
01-22-0101	RES METAL OXIDE 100R 2W 5% TH	1	R68
01-22-0510	RES METAL OXIDE 51R 2W 5% TH	1	R69
01-23-0102	RES WIREWOUND 1K 7W 5% TH	2	R7,R28
01-23-01R0	RES WIREWOUND 1R 3W 1% TH	2	R23,R32
01-23-01R5	RES WIREWOUND 1.5R 7W 5% TH	1	R65
01-23-0253	RES WIREWOUND 25K 5% 3W TH	1	R47
01-23-0331	RES WIREWOUND 330R 7W 5% TH	1	R34
01-23-05R0	RES WIREWOUND 5R 7W 5% TH	2	R58,R59
01-52-0203	POT TRIM 20K SINGLE TURN 1/4 SQ V/ADJ	2	TR2,TR3
03-00-0472	CAP CER DISC 4.7nF 1KV Y5P 10MM-LS TH	1	C6
03-00-1470	CAP CER DISC 47pF 1KV TH	1	C15
03-00-2103	CAP CER DISC 10nF 1KV 10% TH	5	C42,C43,C44,C45,C52
03-00-2223	CAP POLY FILM 22nF 600V 10% TH	2	C13,C16
03-14-0337	CAP ELEC 330uF 25V 20% RADIAL 8/11.5/5	1	C48
03-23-0101	CAP ELEC 100uF 160V RADIAL	1	C57
03-23-0121	CAP ELEC 120uF 350V RADIAL	2	C34,C35
03-23-0220	CAP ELEC 22uF 160V RADIAL	1	C56
03-23-0330	CAP ELEC 33uF 450V RADIAL	2	C2,C39
03-23-0472	CAP ELEC 4700uF 25V RADIAL	1	C49
03-23-1221	CAP ELEC 220UF 350V RADIAL 22MMD X 35MML	2	C36,C37
03-24-0224	CAP MET POLY 0.22uF 63V 10% TH	1	C23
03-24-1223	CAP MET POLY 22nF 630V 10% TH	3	C1,C5,C22
03-24-2104	CAP MET POLY 0.1uF 400V 10% TH WIMA	2	C7,C8
03-36-0105	CAP ESTR 1uF 250VDC 10% TH 18.5/7.4/15/15	1	C4
06-01-4002	DIODE RECTIFIER 1N4002 100V 1A DO-41 TH	4	D10,D11,D12,D13
06-01-4007	DIODE RECTIFIER 1N4007 1KV 1A DO-41 TH	9	D1,D2,D3,D4,D5,D6,D7,D8,D9
21-18-0006	TUBE SOCKET VT8-PTS-B	2	S3,S4
21-18-0007	TUBE SOCKET BELTON VT9-PT	2	S1,S2
21-20-0202	HDR SIL PCB-MT 2 PIN x 2MM MAL E SHRD VERT MT TH	2	
21-20-0203	HDR SIL PCB-MT 3 PIN x 2MM MAL E SHRD VERT MT TH	2	
21-20-1563	HDR SIL PCB-MT 3 PIN x 3.96MM MALE VERT MNT FRIC LOCK	2	H7,H8
21-20-1567	HDR SIL PCB-MT 7 PIN x .156 MA LE VERT MNT FRIC LOCK	1	H5
21-20-3122	HDR SIL PCB-MT 2 PIN x 7.92MM MALE VERT MNT FRIC LOCK	1	H9
21-20-3123	HDR SIL PCB-MT 3 PIN x 7.92MM MALE VERT MNT FRIC LOCK	2	H4,H6
21-20-3125	HDR SIL PCB-MT 5 PIN x .312 MA LE VERT MNT FRIC LOCK	1	H10
21-34-1117	CBL 1 COND STRAND 18AWG 4.0" .250 RCPT/TND-END WHITE	2	W1,W2
21-48-0520	FUSE CLIP PCB MNT FOR 5 x 20MM	4	CL1,CL2,CL3,CL4
24-19-0004	FUSE 5.0A 5MM x 20MM SLOW BLOW	1	F1
35-00-0244	PCB POWER AMP/SUPPLY SV 40/50 A15 REV B	1	

50-02-0244-1	PCBA AC PRIMARY SV 40/50 A15-1 A15-2	1	
Part Number	Description	Qty	Refdes
50-02-0244-1	PCBA AC PRIMARY SV 40/50 A15-1 A15-2	1	
03-00-1102	CAP CER DISC Y-CAP 1nF 250VAC 20% 8D/7/7.5	2	C92,C93
03-41-0224	CAP X-CAP 0.22uF 275VAC 20% POLYPROPYLENE 18/9.5/17.5/15	1	C3
11-10-2020	CHOKE WIDE BAND 1-5 TURNS	2	L1,L2
21-20-3122	HDR SIL PCB-MT 2 PIN x 7.92MM MALE VERT MNT FRIC LOCK	1	H1
21-20-3123	HDR SIL PCB-MT 3 PIN x 7.92MM MALE VERT MNT FRIC LOCK	2	H2,H3
35-00-0244-1	PCB AC PRIMARY SV 40/50 A15-1 A15-2 REV B	1	
50-02-9325	PCBA MAIN SV MKII A23	1	
Part Number	Description	Qty	Refdes
50-02-9325	PCBA MAIN SV MKII A23	1	
01-24-0000	RES 0R 1% 0805	1	R5
01-24-1000	RES 100R 1% 0805	1	R40
01-24-1002	RES 10.0K 1% 0805	2	R79,R80
01-24-1071	RES 1.07K 1% 0805	1	R1
01-24-10R0	RES 10.0R 1% 0805	2	R69,R75
01-24-1781	RES 1.78K 1% 0805	1	R2
01-24-2211	RES 2.21K 1% 0805	14	R9,R10,R14,R17,R31,R32,R48,R110,R111,R112,R118,R119,R120,R121
01-24-22R1	RES 22.1R 1% 0805	2	R59,R60
01-24-30R1	RES 30.1R 1% 0805	1	R18
01-24-3481	RES 3.48K 1% 0805	2	R28,R29
01-24-51R1	RES 51.1R 1% 0805	2	R25,R30
01-24-5360	RES 536R 1% 0805	1	R42
01-24-5361	RES 5.36K 1% 0805	4	R26,R27,R68,R71
01-24-5R11	RES 5.11R 1% 0805	3	R54,R55,R62
01-24-6981	RES 6.98K 1% 0805	1	R19
01-24-90R9	RES 90.9R 1% 0805	3	R3,R4,R13
01-25-1000	RES 100R 1% 0603	2	R46,R47
01-25-1002	RES 10.0K 1% 0603	9	R56,R61,R65,R73,R93,R105,R106,R107,R108
01-25-1004	RES 1.00M 1% 0603	1	R8
01-25-10R0	RES 10.0R 1% 0603	2	R57,R67
01-25-20R0	RES 20.0R 1% 0603	2	R6,R72
01-25-4751	RES 4.75K 1% 0603	24	R39,R41,R49,R50,R51,R76,R77,R78,R82,R83,R84,R85,R88,R89,R91,R92,R94,R95,R96,R97,R98,R101,R103,R104
01-25-47R5	RES 47.5R 1% 0603	1	R7
01-28-1001	RES 1.00K 1% 1206	1	R20
03-10-0338	CAP ELEC 3300uF 6.3V 20% RADIAL 10/20/5	1	C119
03-11-2688	CAP ELEC RADIAL LOW-Z 6800UF 6.3V 20% 105C 0.014R 16.0MM 25.0MM 7.5MM TH	1	C2
03-50-0221	CAP NPO 220pF 50V 5% 0805	1	C24
03-50-0272	CAP NPO 2.7nF 50V 5% 0805	3	C9,C11,C19
03-50-0330	CAP NPO 33pF 50V 5% 0805	1	C20
03-50-0391	CAP NPO 390pF 50V 5% 0805	1	C38
03-50-0562	CAP NPO 5.6nF 50V 10% 0805	8	C159,C160,C161,C162,C167,C168,C169,C170
03-50-0681	CAP NPO 680pF 50V 5% 0805	4	C21,C23,C28,C85
03-52-0104	CAP X7R 0.1uF 50V 10% 0805	1	C150
03-52-0221	CAP X7R 220pF 50V 10% 0805	3	C13,C16,C31
03-56-0101	CAP NPO 100pF 50V 5% 0603	1	C34
03-56-0180	CAP NPO 18pF 50V 5% 0603	2	C113,C120
03-56-0220	CAP NPO 22pF 50V 5% 0603	2	C14,C15
03-58-0102	CAP X7R 1nF 50V 10% 0603	18	C46,C56,C62,C64,C65,C66,C73,C94,C96,C99,C100,C103,C106,C115,C124,C125,C127,C134
03-58-0103	CAP X7R 10nF 50V 10% 0603	9	C32,C45,C57,C80,C90,C95,C104,C110,C123
03-58-0104	CAP X7R 0.1uF 25V 10% 0603	57	C4,C29,C30,C37,C39,C40,C41,C42,C43,C44,C47,C49,C52,C54,C55,C58,C60,C63,C67,C69,C72,C74,C75,C76,C77,C79,C82,C83,C86,C87,C91,C93,C97,C101,C102,C105,C109,C112,C116,C121,C122,C126,C128,C131,C
03-80-0107	CAP ELEC 100uF 10V 20% SM 6.3/5.4/7.8	3	C7,C53,C89
03-80-0227	CAP ELEC 220uF 10V 20% SM 8/6.2/9.5	1	C6
03-80-0476	CAP ELEC 47uF 10V 20% SM 5/5.4/6.5	2	C61,C98
03-80-1476	CAP ELEC 47uF 6.3V 20% SM 5/5.4/5.4	2	C26,C92
03-80-1477	CAP ELEC 470uF 6.3V 20% VS SM	1	C3
03-82-0106	CAP ELEC 10uF 16V 20% SM 4/5.4/5.5	11	C1,C5,C8,C10,C12,C18,C22,C33,C71,C139,C142
03-88-0105	CAP ELEC 1uF 50V 20% VS SM	11	C48,C50,C51,C59,C68,C78,C81,C84,C88,C114,C129
04-01-0004	INDUCTOR CHOKE 150uH 0.4R 1A SM SHIELDED	1	L7
06-23-0054	DIODE SCHOTTKY DUAL 30V 200mA 5nS SOT-23 SM	1	D11
06-32-0130	DIODE SCHOTTKY 1A 30V SMB SM	1	D1
06-34-0031	DIODE GEN PUR DUAL 120V 600mA 50nS SOT-23 SM	4	D3,D4,D5,D15
09-06-7002	TRANS MOSFET N-CHAN 60V 7R5 SOT-23 SM	1	Q1
11-00-0012	CRYSTAL 12MHz SM HC49 FOXSDF	1	X2
11-00-1003	CRYSTAL 24.576MHz HC49S 2PIN SM	1	X1
12-00-0317	IC VREG ADJ 1.2V-37V 1.5 AMP TO-220 LM317 TH	1	U2

50-02-9325	PCBA MAIN SV MKII A23	1	
Part Number	Description	Qty	Refdes
12-01-7906	IC REG -6V 1.5A TO-220 TH	1	U19
12-02-1088	IC REG ADJ TO-220 TH	1	U13
12-02-7805	IC REG +5V 1.5 AMP TH	1	U10
12-54-0072	IC OP AMP DUAL TL072 SM	2	U8,U11
12-64-4272	IC STEREO AUDIO CODEC 24 BIT 192 KHz CS4272 SM	2	U4,U6
15-65-0004	IC 74LVCO4 LOW VOLTAGE HEX INV ERTER SO-14 SM	1	U17
15-65-0595	IC 74LVC595A OCTAL SHIFT RESGISTER SO-16 SM	1	U20
15-68-2374	IC PWM DC/DC CONVERTER DMP8 SM	1	U1
15-70-0005	IC SDRAM 3.3V 64MB 1M x 16 x 4 EM638165TS-7G TSOP-54 SM	1	U3
15-78-2532	IC FLASH 32Mbit SPI SERIAL SOIC-8 200mil SM	1	U16
15-84-2132	IC MCU 16/32BIT ARM7TDMI w/ 64KB FLASH 16K SRAM LQFP64 SM	1	U12
15-86-2371	IC DSP SHARC PROCESSOR 32 BIT ADSP-21371 LQFP208EP SM	1	U7
15-92-5811	IC RESET PUSH PULL OUTPUT 3.3V ACTIVE LOW SOT-23 SM	1	U14
21-20-0202	HDR SIL PCB-MT 2 PIN x 2MM MAL E SHRD VERT MT TH	1	H8
21-20-0203	HDR SIL PCB-MT 3 PIN x 2MM MAL E SHRD VERT MT TH	1	H5
21-20-0205	HDR SIL PCB-MT 5 PIN x 2MM MAL E SHRD VERT MT TH	3	H6,H12,H13
21-20-0206	HDR SIL PCB-MT 6 PIN x 2MM MAL E SHRD VERT MT TH	1	H3
21-20-1563	HDR SIL PCB-MT 3 PIN x 3.96MM MALE VERT MNT FRIC LOCK	1	H2
21-21-0040	HDR DIL PCB-MT 40 PIN 2 x 20 x .100 MALE SHRD VERT MNT TH	1	H1
30-00-0043	SCREW 6-32 X 5/16 LG WITH LOCK WASHER PHIL PAN ZINC-PLATED STEEL	2	
30-12-0632	STANDOFF HEX .250 6-32 F-F .1IN F-F AL	1	
30-12-2210	STANDOFF HEX .250 6-32 F-F .500 LG AL	1	
35-00-9325	PCB MAIN 4 SV MKII A23	1	
50-02-9326	PCBA UI SV MKII A23	1	
Part Number	Description	Qty	Refdes
50-02-9326	PCBA UI SV MKII A23	1	
01-24-1000	RES 100R 1% 0805	1	R20
01-24-1001	RES 1.00K 1% 0805	1	R23
01-24-1002	RES 10.0K 1% 0805	1	R33
01-24-1003	RES 100K 1% 0805	1	R24
01-24-10R0	RES 10.0R 1% 0805	5	R2,R4,R14,R18,R35
01-24-1501	RES 1.50K 1% 0805	1	R31
01-24-2210	RES 221R 1% 0805	5	R3,R5,R9,R11,R17
01-24-3320	RES 332R 1% 0805	1	R34
01-24-4751	RES 4.75K 1% 0805	4	R10,R13,R21,R25
01-24-4752	RES 47.5K 1% 0805	1	R32
01-25-4751	RES 4.75K 1% 0603	2	R27-R28
01-48-0254	POT MONO 25K ANTILOG 15C TAPER 30MM D-SHAFT	1	R30
01-48-2105	POT MONO 100K LINEAR TAPER 30MM D-SHAFT	1	R29
01-48-6103	POT MONO 10KB LINEAR TAPER 25MM W/9MM NUT D-SHAFT	10	R1,R6,R7,R8,R12,R15,R16,R19,R22,R26
03-52-0104	CAP X7R 0.1uF 50V 10% 0805	4	C2,C3,C30,C39
03-58-0104	CAP X7R 0.1uF 25V 10% 0603	4	C11,C19,C37,C38
03-80-0107	CAP ELEC 100uF 10V 20% SM 6.3/5.4/7.8	2	C1,C33
06-34-0016	DIODE SWITCHING 75V 200mA 6nS SOT-23 SM	4	D19,D35,D43,D44
09-06-7002	TRANS MOSFET N-CHAN 60V 7R5 SOT-23 SM	1	Q3
09-10-0092	TRANS PNP HI VOLTAGE SOT-23 SM	1	Q2
09-10-4401	TRANS NPN SMALL SIGNAL SOT-23 SM	1	Q1
12-62-4052	IC SWITCH ANALOG 4052 SO-16 SM	2	U1,U2
18-02-0003	LED YELLOW SUPER BRIGHT T-1 3M M DIFFUSED TH	7	D17,D18,D20,D23,D28,D38,D45
18-03-0002	LED BLUE DIFFUSED T-1 3/4 5MM 465nm TH	1	D46
18-22-0003	LED YELLOW SUPER BRIGHT 2MM x 1.25MM SM	17	D1,D3,D5,D7,D9,D11,D13,D15,D21,D24,D26,D29,D31,D33,D36,D39,D41
18-22-0004	LED BLUE SUPER 2.0 x 1.2 x 1.1 MM SM	17	D2,D4,D6,D8,D10,D12,D14,D16,D22,D25,D27,D30,D32,D34,D37,D40,D42
21-18-0002	TERMINAL SCREW PCB MOUNT RIGHT ANGLE SNAP-IN 6-32 THREAD	7	BR1,BR2,BR3,BR4,BR5,BR6,BR7
21-20-0202	HDR SIL PCB-MT 2 PIN x 2MM MAL E SHRD VERT MT TH	3	H1,H5,H6
21-20-0203	HDR SIL PCB-MT 3 PIN x 2MM MAL E SHRD VERT MT TH	1	H2
21-21-0040	HDR DIL PCB-MT 40 PIN 2 x 20 x .100 MALE SHRD VERT MNT TH	1	H7
21-26-0002-4	CBL RIBBON 2 COND X .100 9.5" S/T	1	
21-30-0012	CBL SIL 10 PIN 26AWG 2.54MM x 40MM S/T	1	
24-12-0010	ENCODER 20 STEP w/SWITCH 20MM D-SHAFT METAL V-MNT PCB	1	E1
24-31-1105	SWITCH TACT 6MM SQ 4 PIN TH	11	SW1,SW2,SW3,SW4,SW5,SW6,SW7,SW8,SW9,SW10,SW11
30-27-0218	BUTTON 4 WAY BOTTOM .8 DIA x 0.5 HT ABS	1	
30-27-0221	4-WAY SW PIVOT PIN .37 x .200 DIA NYLON 6/6 WHITE	1	
30-27-0353	BUTTON PLASTIC CLEAR W/CHROME TOP A21	7	
30-27-0363	BUTTON 4 WAY TOP .8 DIA X .4 H T ABS	1	
30-27-0364	FRAME 4-WAY 1.04 DIA X 0.7 ABS A15 A21 A23	1	
30-63-0028	FOAM RING 4-WAY SW RET PU .75 OD x .40 ID x .18 HT BLK	1	
35-00-9326	PCB UI 2 SV MKII A23	1	

50-02-0083	PCBA DISPLAY LCD 2 X 16 POS CHARACTER 12-O'CLOCK AMBER	1	
Part Number	Description	Qty	Refdes
50-02-0083	PCBA DISPLAY LCD 2 X 16 POS CHARACTER 12-O'CLOCK AMBER	1	
18-30-0012	DISPLAY LCD MODULE 2X16 POS CHARACTER 12-OCLOCK AMBER A21	1	
21-30-0015-7	CBL RIBBON SIL 6 COND 26AWG 2. 54MM 5.0" W/SPLIT ENDS S/T	1	
21-30-0015-8	CBL RIBBON SIL 6 COND 26AWG 2. 54MM 7.0" W/SPLIT ENDS S/T	1	
30-27-0283	SPRT DUAL LKG CKT BD TEARDROP .156 LG 6/6 NYLON NAT A15	4	
50-02-9327	PCBA JACK SV MKII A23	1	
Part Number	Description	Qty	Refdes
50-02-9327	PCBA JACK SV MKII A23	1	
01-24-1001	RES 1.00K 1% 0805	2	R3,R6
01-24-1871	RES 1.87K 1% 0805	2	R4,R5
01-24-2210	RES 221R 1% 0805	1	R7
01-24-2371	RES 2.37K 1% 0805	1	R2
01-24-4750	RES 475R 1% 0805	1	R8
01-24-51R1	RES 51.1R 1% 0805	2	R9,R10
01-24-9530	RES 953R 1% 0805	1	R1
01-25-1002	RES 10.0K 1% 0603	1	R11
03-52-0101	CAP X7R 100pF 50V 10% 0805	1	C19
03-56-0101	CAP NPO 100pF 50V 5% 0603	3	C4,C6,C8
03-56-0102	CAP NPO 1nF 50V 5% 0603	5	C3,C5,C14,C15,C17
03-58-0102	CAP X7R 1nF 50V 10% 0603	3	C9,C10,C11
03-58-0104	CAP X7R 0.1uF 25V 10% 0603	8	C1,C2,C7,C12,C13,C16,C18,C20
06-34-0016	DIODE SWITCHING 75V 200mA 6nS SOT-23 SM	1	D1
11-10-0501	FERRITE BEAD 500R @100MHZ 2.5A 1206 SM	2	L8,L9
11-10-2012	FERRITE BEAD 600R @ 100MHz 300 mA 0805 SM	15	L1,L2,L3,L4,L5,L6,L7,L10,L11,L12,L13,L14,L15,L16,L17
15-40-6138	IC OPTO ISOLATOR 6N138 DIP 8 P IN TH	1	U1
15-62-0004	IC 74HC04 HEX INVERTER SO-14 S M	1	U2
21-00-6617	JACK 1/4" TRS PCB MOUNT 6 PIN HORIZONTAL W/CHROME HRDWARE TH	2	J1,J2
21-04-5075	JACK DIN FEMALE MIDI 5 PIN PCB MOUNT RT ANGLE	2	J5,J6
21-08-0013	JACK XLR MALE PCB MOUNT RIGHT ANGLE TH	1	J3
21-16-0045	JACK RJ-45 MOD 8/8 RT/A FEMALE PCB 50AU	1	J4
21-18-0002	TERMINAL SCREW PCB MOUNT RIGHT ANGLE SNAP-IN 6-32 THREAD	2	BR1,BR2
21-20-0203	HDR SIL PCB-MT 3 PIN x 2MM MAL E SHRD VERT MT TH	1	H1
21-20-0205	HDR SIL PCB-MT 5 PIN x 2MM MAL E SHRD VERT MT TH	3	H2,H3,H4
24-09-0129	SWITCH SLIDE DPDT 4MM 8MM SHAF T HORIZONTAL MNT	1	SW1
30-18-3030	CLIP GROUND PCB .30 x .30 x .0 7	3	GF1,GF2,GF3
35-00-9327	PCB JACK 4 SV MKII A23	1	
50-02-9328	PCBA SPEAKER OUT SV MKII A23	1	
Part Number	Description	Qty	Refdes
50-02-9328	PCBA SPEAKER OUT SV MKII A23	1	
35-00-9328	PCB SPEAKER OUT SV MKII 2 COMBO (A23-2 A23-3)	1	
01-23-2700	RES WIREWOUND 270R 5W 5% TH	1	R2
21-00-6617	JACK 1/4" TRS PCB MOUNT 6 PIN HORIZONTAL W/CHROME HRDWARE TH	3	J1,J2,J4
21-20-3124	HDR SIL PCB-MT 4 PIN x 7.92MM MALE VERT MNT FRIC LOCK	1	H3
21-20-0203	HDR SIL PCB-MT 3 PIN x 2MM MAL E SHRD VERT MT TH	1	H2
21-20-0202	HDR SIL PCB-MT 2 PIN x 2MM MAL E SHRD VERT MT TH	1	H1
30-18-3030	CLIP GROUND PCB .30 x .30 x .0 7	3	GF1,GF2,GF4
03-58-0104	CAP X7R 0.1uF 25V 10% 0603	3	C1,C2,C4
50-02-9330	PCBA GUITAR INPUT SV MKII 2 A23	1	
Part Number	Description	Qty	Refdes
50-02-9330	PCBA GUITAR INPUT SV MKII 2 A23	1	
12-54-0072	IC OP AMP DUAL TL072 SM	1	U14
30-51-0146	SHIELD PCB MT FOR 1/4 JACK 1.00 Hx1.25Wx.013THK BERYL COP	1	SH1
01-24-1502	RES 15.0K 1% 0805	1	R46
01-24-1004	RES 1.00M 1% 0805	1	R45
01-24-1001	RES 1.00K 1% 0805	2	R40,R41
21-00-6617	JACK 1/4" TRS PCB MOUNT 6 PIN HORIZONTAL W/CHROME HRDWARE TH	1	J5
21-20-0206	HDR SIL PCB-MT 6 PIN x 2MM MAL E SHRD VERT MT TH	1	H2
30-18-3030	CLIP GROUND PCB .30 x .30 x .0 7	1	GF1
06-34-0031	DIODE GEN PUR DUAL 120V 600mA 50ns SOT-23 SM	1	D5
03-52-0473	CAP X7R 47nF 50V 10% 0805	2	C43,C51
03-52-0470	CAP X7R 47pF 50V 10% 0805	1	C45
03-52-0104	CAP X7R 0.1uF 50V 10% 0805	1	C1
35-00-9330	PCB GUITAR INPUT SV MKII A23	1	

99-011-0805 SPIDER VALVE MKII 212 US - A23-3			
Part Number	Description	Qty	Refdes
21-37-1160	CBL PWR UL/CSA SJT 8.2FT BLK E L-302 w/GND EL70	1	
40-00-0233	MANUAL QUICK START GUIDE SV MKII A23	1	
40-01-0016	CARD LICENSE-AGREEMNT END-USER ALL-PRODUCTS	1	
40-03-0031	CARD REGISTRATION UK	1	
40-03-2000	CARD REGISTRATION US	1	
40-03-2000-1	CARD REGISTRATION EUROPE	1	
40-10-0208	CARTON CASTER PLUG-IN 2-INCH	1	
40-10-0211	ENDCAP FOAM SHIPPING TOP SV COMBO A15	2	
40-10-0212	ENDCAP FOAM SHIPPING BOTTOM SV COMBO A15	2	
40-10-0296	CARTON GIFT SV MKII 212 A23-3	1	
40-10-0299	CARTON SHIPPING SV MKII 212 A23-3	1	
40-15-0022	SILICA GEL PACK 3.0" x 3.5"	3	
40-15-0023	ANTISEPTIC PACK (5g/package)	1	
40-20-0011	BAG PLASTIC 10 x 16 2 mil	1	
40-20-0013	BAG PLASTIC CASTER PLUG-IN 2-INCH	1	
40-20-0017	BAG PLASTIC 44" W x 38" H CLEAR 4 MIL A15-2	1	
40-25-0020	LABEL INSPECTION QUALITY	1	
40-25-0024	STICKER ART SEAL EULA	1	
40-25-0083	STICKER CARB WOOD CABINET	1	
40-25-0100	LABEL BAR CODE SERIAL NUMBER 4-PANEL LABEL	1	
40-25-0148	LABEL ETL RYDER 2"x 1" INTERTEK	1	
59-00-1813	ASSY UNIT-COMPLETE SV MKII A23-3 US 120V	1	
59-00-1813	ASSY UNIT-COMPLETE SV MKII A23-3 US 120V	1	
Part Number	Description	Qty	Refdes
11-20-1005	SPEAKER 12" 16 OHM CELESTION VINTAGE 30 T3904A	2	
21-34-0098-3	CBL 1/4" RT ANGLE TO DUAL .205 12.5" 18AWG QUICK CONNECT	1	
21-36-0266-2	CBL 2 COND 18AWG TWISTED 15.3" .205 SPADE-FM X 4 BL/WH	1	
30-00-0033	SCREW 10-24 x7/8 TRUSS HD PHH BLK	8	
30-00-0072	SCREW WOOD #10 x 1-1/4" OVAL H D PB	5	
30-00-0676	SCREW WOOD NO.6 x 3/4" PHIL OVAL HD BLK	2	
30-00-0812	SCREW w/WAX 8 x 3/4 PTB	1	
30-00-0858	SCREW #8 x 5/8IN PHIL-TRUSS BLACK w/WAX	3	
30-00-1129	SCREW 10-32 x 1-1/4 OVAL CTSK PB STL w/PILOT TIP	4	
30-00-9358	SCREW #3 x1/2 IN OVAL PHILLIPS BLACK (SUB FOR 30-00-0358)	4	
30-03-0035	WASHER #10 SPLIT LK WASH ZINC	8	
30-03-0112	WASHER FINISHING #10 FLANGED STL BLK OXIDE	9	
30-03-1010	WASHER #10 FLAT .20-.25 ID, .45-.55 OD, .04-.05 THK ZINC	8	
30-21-0007	STRAIN RELIEF- CABLE 3/8" x .2 5 O.D. NYLON BLACK A15	1	
30-27-0272	LOGO BOGNER 2.8 X 1.0 X 0.1 AB 5 BLACK W/SILVER MTLCL FILM A15 & A23	1	
30-27-0274	MESH LOGO FRAME 22.8 X .9 X .07 ABS BLACK A15-2 & A23-3	1	
30-48-0005	CASTER PLUG IN 2" A15	4	
30-51-0301	FRAME LOGO 212 24.8 X 1.3 X 1.1 STEEL A15-2 & A23-3	1	
30-60-0005	LOGO LINE 6 MED 139.70x28.63MM BRUSHED/BLACK FINISH ALUMINUM	1	
30-63-0600-3	FOAM W/ADHESIVE 9.0" X 0.25" X 0.06" VOLARAPOLOLEFIN	2	
30-65-0020	TAPE SHEET 3M 468 10MM x 20MM A15	2	
30-65-0021	TAPE SHEET 3M 468 10MM x 130MM A15	1	
40-25-0198	STICKER SPEAKER-GRILL PROMO SV MKII 212 A23-3	1	
50-03-0082	ASSY CAB SVMKII 212 A23-3	1	

50-03-0082	ASSY CAB SVMKII 212 A23-3	1	
Part Number	Description	Qty	Refdes
30-00-0121	SCREW WOOD #6 x 1.25 PHH FLH BLK	11	
30-00-0122	SCREW 10-24 x 0.7 OVH PHILLIPS NI PLD / CRM	4	
30-00-0812	SCREW w/WAX 8 x 3/4 PTB	4	
30-00-6839	SCREW WOOD 10-12 x 7/8" PPZ	20	
30-06-1024	NUT-T 10-24 X 5/16 STEEL	8	
30-27-0280	PIPING SV AMPS (A15)	61	
30-30-1530	CORNER PROTECTOR 2 LEG CUT OUT METAL BLACK	4	
30-36-0009	COVER VINYL SV VINYL	6.5	
30-39-0013	GRILL CLOTH BLACK SPIDER3	2.5	
30-48-0006	CASTER SOCKET 2" A15	4	
30-57-0001	HANDLE CABINET PVC BLACK W/CHROME BRACKETS	1	
30-75-0008	RUBBER FOOT 1.50" I.D. X .75"H BLACK	4	
50-04-0294	ASSY E/M CHASSIS SV MKII 212 A23-3 US 120V	1	
50-04-0294	ASSY E/M CHASSIS SV MKII 212 A23-3 US 120V	1	
Part Number	Description	Qty	Refdes
11-02-0000	VALVE 12AX7	2	
11-02-0001	VALVE 5881/6L6 MATCHED PAIR	1	
11-30-0027	XFMR 100/120VAC 170/60/9.8/6.3 SV A15-1/A15-2	1	
11-33-0017	XFMR OUTPUT SPIDER VALVE A23-2 A23-3	1	
21-34-0085-2	CBL ASSY 5 COND 26AWG F/F X 5 "	2	
21-34-0085-3	CBL ASSY 5 COND 26AWG F/F X 6 "	1	
21-34-0090-1	CBL ASSY RIBBON 40 POS 28AWG 2 0 X 2 F/F X 5"	1	
21-34-0093	CBL ASSY SIL 1 COND 26AWG 2.0M M PITCH 4.0" CON1-CON2	1	
21-34-0095	CBL SIL 3 COND 18AWG 3 PIN 5.5" x .156" PITCH WHITE	1	
21-34-0097-1	CBL ASSY 3 PIN SIL 2 COND 7.0" 26AWG SHIELD	1	
21-34-0097-2	CBL ASSY 3 PIN SIL 2 COND 12.0" 26AWG SHIELD	1	
21-34-0100-2	CBL ASSY 3 PIN TO 2 PIN SIL 9.0" 26AWG SHLD	1	
21-34-0101-3	CBL ASSY 2 PIN SIL 11.0" 26AWG SHLD	1	
21-34-0111	CBL ASSY 6 COND 26AWG F/F X 6	1	
21-34-0135-2	CBL ASSY 18AWG 3 PIN SIL 9.5" x 9.5" x .250 RCPT WHITE/WHITE	1	
21-34-0135-6	CBL ASSY 18AWG 3 PIN SIL 4" X 7" X .250 RCPT WHITE/BLK	1	
21-34-1023-3	CBL FSTN .205-RCPT/.250-RCPT 1-COND 18AWG 9" BLK	1	
21-48-0004	HOLDER FUSE PANEL MOUNT SHOCK SAFE 500V	1	
21-48-0005	FUSE CAP No. 816 FOR 6.3 x 32M M	1	
24-03-0003	SWITCH TOGGLE SPST ON-OFF SHOR T BAT 250V 10A 2 x QC PNL MNT	2	
24-19-0005	FUSE 0.5A 250V SLOW BLOW 3AG	1	
24-19-3250	FUSE 2.5A 250V 5MM X 20MM SLO- BLO VDE CERTIFIED	1	
30-00-0042	SCREW SHEET METAL 4 x 0.375 IN SELF-TAP PPB	2	
30-00-0043	SCREW 6-32 X 5/16 LG WITH LOCK WASHER PHIL PAN ZINC-PLATED STEEL	24	
30-00-0125	SCREW 8-32 x 5/16 W/LK WASH PP H BLK STL	8	
30-00-0126	SCREW #5-40 x 0.300 PHP SELF - TAP STL	4	
30-00-0128	SCREW 6-32 x .375 W/LK WASH PP H BLK	6	
30-00-0150	SCREW 4-40 x .3125 w/LK WASH PAN HD PHIL ZINC	5	
30-00-0375	SCREW 6-32 x .375 PPB	2	
30-03-0038	WASHER .91 O.D. x .51 I.D. x .08 THK NYLON (A15)	4	
30-06-0832	NUT .335 HEX 8-32 STL ZINC W/ TOOTH WASHER	4	
30-15-0004	SPACER .13 THICK x .630D NYLON	6	
30-21-0005	RETAINER TUBE EL34 STYLE	2	
30-24-0003	CABLE TIE 4" CLEAR	5	
30-27-0277	LIGHT PIPE .10 DIA X .34 LG CLEAR PC A15 & A23	17	
30-27-0278	SHIELD LIGHT PIPE .19 DIA X .2 6 LG ABS BLACK A15 & A23	17	
30-27-0410	BEZEL LCD 2.0 X 0.75 PC CLEAR A23	1	
30-42-0063-2	OVERLAY UI 212 24.8 X 2.4 X .0 3 ALUMINUM A23-3	1	
41-01-0030	ARTWORK OVERLAY FRONT PANEL SV MKII 212 A23-3	1	
30-45-0020	KNOB 0.84 DIA X 0.6 HIGH UREA PHENOLIC BLACK A15 & A23	12	
30-45-0027	KNOB ENCODER .55 DIA X .50 HT ABS BLK A21 A23	1	
30-51-0113	LENS JEWEL D.610 x H.654" METAL BASE w/NUT CLEAR	1	
30-51-0310	TUBE CAGE 4 X 4.5 X 2.2 X .06" STEEL BLACK A15-1/A15-2 & A23-2/A23-3	1	
30-51-0392-2	CHASSIS 212 24.8"W X 7.8"D X 3.8"H STEEL A23-3	1	
41-00-0255	ARTWORK SILKSCREEN REAR CHASSIS SV MKII 212 A23-3	1	
30-63-0030-2	FOAM W/ADHESIVE 1 SIDE 24.8" X .25" X .15" A15-2	1	

50-00-0001	ASSY RECEPTACLE-A/C W/GND WIRE SNAP-IN	1	
Part Number	Description	Qty	Refdes
50-00-0001	ASSY RECEPTACLE-A/CW/GND WIRE SNAP-IN	1	
21-14-0002	JACK IEC w/FUSE MALE 3 PIN PAN EL MOUNT SNAP IN VERT	1	
21-34-1116	CBL EARTHING w/EYELET 16AWG 5" GREEN w/YELLOW STRIPE	1	
50-02-0244	PCBA POWER AMP/SUPPLY SV 40/50 A15-1 A15-2	1	
Part Number	Description	Qty	Refdes
50-02-0244	PCBA POWER AMP/SUPPLY SV 40/50 A15-1 A15-2	1	
01-12-0103	RES CARBON FILM 10K 1/4W 5% TH	1	R6
01-12-0474	RES CARBON FILM 470K 1/4W 5% TH	1	R44
01-12-0683	RES CARBON FILM 68K 1/4W 5% TH	1	R5
01-16-0202	RES CARBON FILM 2K 1/2W 5% TH	2	R8,R43
01-16-0334	RES CARBON FILM 330K 1/2W 5% TH	1	R10
01-16-0393	RES CARBON FILM 39K 1/2W 5% TH	1	R2
01-16-0514	RES CARBON FILM 510K 1/2W 5% TH	1	R1
01-17-0103	RES CARBON FILM 10K 1W 5% TH	2	R3,R13
01-17-0104	RES CARBON FILM 100K 1W 5% TH	1	R17
01-17-0105	RES CARBON FILM 1M 1W 5% TH	3	R11,R16,R18
01-17-0113	RES CARBON FILM 11K 1W 5% TH	1	R55
01-17-0133	RES CARBON FILM 13K 1W 5% TH	1	R54
01-17-0184	RES CARBON FILM 180K 1W 5% TH	4	R36,R37,R62,R63
01-17-0204	RES CARBON FILM 200K 1W 5% TH	3	R9,R45,R46
01-17-0222	RES CARBON FILM 2.2K 1W 5% TH	2	R25,R27
01-17-0224	RES CARBON FILM 220K 1W 5% TH	2	R24,R26
01-17-0471	RES CARBON FILM 470R 1W 5% TH	1	R15
01-17-0472	RES CARBON FILM 4.7K 1W 5% TH	1	R12
01-17-0473	RES CARBON FILM 47K 1W 5% TH	1	R4
01-17-0682	RES CARBON FILM 6.8K 1W 5% TH	1	R54
01-17-0823	RES CARBON FILM 82K 1W 5% TH	1	R14
01-22-0101	RES METAL OXIDE 100R 2W 5% TH	1	R68
01-22-0510	RES METAL OXIDE 51R 2W 5% TH	1	R69
01-23-0102	RES WIREWOUND 1K 7W 5% TH	2	R7,R28
01-23-01R0	RES WIREWOUND 1R 3W 1% TH	2	R23,R32
01-23-01R5	RES WIREWOUND 1.5R 7W 5% TH	1	R65
01-23-0253	RES WIREWOUND 25K 5% 3W TH	1	R47
01-23-0331	RES WIREWOUND 330R 7W 5% TH	1	R34
01-23-05R0	RES WIREWOUND 5R 7W 5% TH	2	R58,R59
01-52-0203	POT TRIM 20K SINGLE TURN 1/4 SQ V/ADJ	2	TR2,TR3
03-00-0472	CAP CER DISC 4.7nF 1KV YSP 10MM-LS TH	1	C6
03-00-1470	CAP CER DISC 47pF 1KV TH	1	C15
03-00-2103	CAP CER DISC 10nF 1KV 10% TH	5	C42,C43,C44,C45,C52
03-00-2223	CAP POLY FILM 22nF 600V 10% TH	2	C13,C16
03-14-0337	CAP ELEC 330uF 25V 20% RADIAL 8/11.5/5	1	C48
03-23-0101	CAP ELEC 100uF 160V RADIAL	1	C57
03-23-0121	CAP ELEC 120uF 350V RADIAL	2	C34,C35
03-23-0220	CAP ELEC 22uF 160V RADIAL	1	C56
03-23-0330	CAP ELEC 33uF 450V RADIAL	2	C2,C39
03-23-0472	CAP ELEC 4700uF 25V RADIAL	1	C49
03-23-1221	CAP ELEC 220UF 350V RADIAL 22MMD X 35MML	2	C36,C37
03-24-0224	CAP MET POLY 0.22uF 63V 10% TH	1	C23
03-24-1223	CAP MET POLY 22nF 630V 10% TH	3	C1,C5,C22
03-24-2104	CAP MET POLY 0.1uF 400V 10% TH WIMA	2	C7,C8
03-36-0105	CAP ESTR 1uF 250VDC 10% TH 18.5/7.4/15/15	1	C4
06-01-4002	DIODE RECTIFIER 1N4002 100V 1A DO-41 TH	4	D10,D11,D12,D13
06-01-4007	DIODE RECTIFIER 1N4007 1KV 1A DO-41 TH	9	D1,D2,D3,D4,D5,D6,D7,D8,D9
21-18-0006	TUBE SOCKET VT8-PTS-B	2	S3,S4
21-18-0007	TUBE SOCKET BELTON VT9-PT	2	S1,S2
21-20-0202	HDR SIL PCB-MT 2 PIN x 2MM MAL E SHRD VERT MT TH	2	
21-20-0203	HDR SIL PCB-MT 3 PIN x 2MM MAL E SHRD VERT MT TH	2	
21-20-1563	HDR SIL PCB-MT 3 PIN x 3.96MM MALE VERT MNT FRIC LOCK	2	H7,H8
21-20-1567	HDR SIL PCB-MT 7 PIN x .156 MA LE VERT MNT FRIC LOCK	1	H5
21-20-3122	HDR SIL PCB-MT 2 PIN x 7.92MM MALE VERT MNT FRIC LOCK	1	H9
21-20-3123	HDR SIL PCB-MT 3 PIN x 7.92MM MALE VERT MNT FRIC LOCK	2	H4,H6
21-20-3125	HDR SIL PCB-MT 5 PIN x .312 MA LE VERT MNT FRIC LOCK	1	H10
21-34-1117	CBL 1 COND STRAND 18AWG 4.0" . 250 RCPT/TND-END WHITE	2	W1,W2
21-48-0520	FUSE CLIP PCB MNT FOR 5 x 20MM	4	CL1,CL2,CL3,CL4
24-19-0004	FUSE 5.0A 5MM x 20MM SLOW BLOW	1	F1
35-00-0244	PCB POWER AMP/SUPPLY SV 40/50 A15 REV B	1	

50-02-0244-1	PCBA AC PRIMARY SV 40/50 A15-1 A15-2	1	
Part Number	Description	Qty	Refdes
50-02-0244-1	PCBA AC PRIMARY SV 40/50 A15-1 A15-2	1	
03-00-1102	CAP CER DISC Y-CAP 1nF 250VAC 20% 8D/7/7.5	2	C92,C93
03-41-0224	CAP X-CAP 0.22uF 275VAC 20% POLYPROPYLENE 18/9.5/17.5/15	1	C3
11-10-2020	CHOKE WIDE BAND 1.5 TURNS	2	L1,L2
21-20-3122	HDR SIL PCB-MT 2 PIN x 7.92MM MALE VERT MNT FRIC LOCK	1	H1
21-20-3123	HDR SIL PCB-MT 3 PIN x 7.92MM MALE VERT MNT FRIC LOCK	2	H2,H3
35-00-0244-1	PCB AC PRIMARY SV 40/50 A15-1 A15-2 REV B	1	
50-02-9325	PCBA MAIN SV MKII A23	1	
Part Number	Description	Qty	Refdes
50-02-9325	PCBA MAIN SV MKII A23	1	
01-24-0000	RES DR 1% 0805	1	R5
01-24-1000	RES 100R 1% 0805	1	R40
01-24-1002	RES 10.0K 1% 0805	2	R79,R80
01-24-1071	RES 1.07K 1% 0805	1	R1
01-24-10R0	RES 10.0R 1% 0805	2	R69,R75
01-24-1781	RES 1.78K 1% 0805	1	R2
01-24-2211	RES 2.21K 1% 0805	14	R9,R10,R14,R17,R31,R32,R48,R110,R111,R112,R118,R119,R120,R121
01-24-22R1	RES 22.1R 1% 0805	2	R59,R60
01-24-30R1	RES 30.1R 1% 0805	1	R18
01-24-3481	RES 3.48K 1% 0805	2	R28,R29
01-24-51R1	RES 51.1R 1% 0805	2	R25,R30
01-24-5360	RES 536R 1% 0805	1	R42
01-24-5361	RES 5.36K 1% 0805	4	R26,R27,R68,R71
01-24-5R11	RES 5.11R 1% 0805	3	R54,R55,R62
01-24-6981	RES 6.98K 1% 0805	1	R19
01-24-90R9	RES 90.9R 1% 0805	3	R3,R4,R13
01-25-1000	RES 100R 1% 0603	2	R46,R47
01-25-1002	RES 10.0K 1% 0603	9	R56,R61,R65,R73,R93,R105,R106,R107,R108
01-25-1004	RES 1.00M 1% 0603	1	R8
01-25-10R0	RES 10.0R 1% 0603	2	R57,R67
01-25-20R0	RES 20.0R 1% 0603	2	R6,R72
01-25-4751	RES 4.75K 1% 0603	24	R39,R41,R49,R50,R51,R76,R77,R78,R82,R83,R84,R85,R88,R89,R91,R92,R94,R95,R96,R97,R98,R101,R103,R104
01-25-47R5	RES 47.5R 1% 0603	1	R7
01-28-1001	RES 1.00K 1% 1206	1	R20
03-10-0338	CAP ELEC 3300uF 6.3V 20% RADIAL 10/20/5	1	C119
03-11-2688	CAP ELEC RADIAL LOW-Z 6800UF 6.3V 20% 10SC 0.014R 16.0MM 25.0MM 7.5MM TH	1	C2
03-50-0221	CAP NPO 220pF 50V 5% 0805	1	C24
03-50-0272	CAP NPO 2.7nF 50V 5% 0805	3	C9,C11,C19
03-50-0330	CAP NPO 33pF 50V 5% 0805	1	C20
03-50-0391	CAP NPO 390pF 50V 5% 0805	1	C38
03-50-0562	CAP NPO 5.6nF 50V 10% 0805	8	C159,C160,C161,C162,C167,C168,C169,C170
03-50-0681	CAP NPO 680pF 50V 5% 0805	4	C21,C23,C28,C85
03-52-0104	CAP X7R 0.1uF 50V 10% 0805	1	C150
03-52-0221	CAP X7R 220pF 50V 10% 0805	3	C13,C16,C31
03-56-0101	CAP NPO 100pF 50V 5% 0603	1	C34
03-56-0180	CAP NPO 18pF 50V 5% 0603	2	C113,C120
03-56-0220	CAP NPO 22pF 50V 5% 0603	2	C14,C15
03-58-0102	CAP X7R 1nF 50V 10% 0603	18	C46,C56,C62,C64,C65,C66,C73,C94,C96,C99,C100,C103,C106,C115,C124,C125,C127,C134
03-58-0103	CAP X7R 10nF 50V 10% 0603	9	C32,C45,C57,C80,C90,C95,C104,C110,C123
03-58-0104	CAP X7R 0.1uF 25V 10% 0603	57	C4,C29,C30,C37,C39,C40,C41,C42,C43,C44,C47,C49,C52,C54,C55,C58,C60,C63,C67,C69,C72,C74,C75,C76,C77,C79,C82,C83,C86,C87,C91,C93,C97,C101,C102,C105,C109,C112,C116,C121,C122,C126,C128,C131,C132,C133,C135,C136,C1
03-80-0107	CAP ELEC 100uF 10V 20% SM 6.3/5.4/7.8	3	C7,C53,C89
03-80-0227	CAP ELEC 220uF 10V 20% SM 8/6.2/9.5	1	C6
03-80-0476	CAP ELEC 47uF 10V 20% SM 5/5.4/6.5	2	C61,C98
03-80-1476	CAP ELEC 47uF 6.3V 20% SM 5.5/4/5.4	2	C26,C92
03-80-1477	CAP ELEC 470uF 6.3V 20% VS SM	1	C3
03-82-0106	CAP ELEC 10uF 16V 20% SM 4/5.4/5.5	11	C1,C5,C8,C10,C12,C18,C22,C33,C71,C139,C142
03-88-0105	CAP ELEC 1uF 50V 20% VS SM	11	C48,C50,C51,C59,C68,C78,C81,C84,C88,C114,C129
04-01-0004	INDUCTOR CHOKE 150uH 0.4R 1A SM SHIELDED	1	L7
06-23-0054	DIODE SCHOTTKY DUAL 30V 200mA 5nS SOT-23 SM	1	D11
06-32-0130	DIODE SCHOTTKY 1A 30V SMB SM	1	D1
06-34-0031	DIODE GEN PUR DUAL 120V 600mA 50nS SOT-23 SM	4	D3,D4,D5,D15
09-06-7002	TRANS MOSFET N-CHAN 60V 7R5 SOT-23 SM	1	Q1
11-00-0012	CRYSTAL 12MHz SM HC49 FOXSDLF	1	X2
11-00-1003	CRYSTAL 24.576MHz HC49S 2PIN SM	1	X1
12-00-0317	IC VREG ADJ 1.2V-37V 1.5 AMP TO-220 LM317 TH	1	U2

50-02-9325	PCBA MAIN SV MKII A23	1	
Part Number	Description	Qty	Refdes
12-01-7906	IC REG -6V 1.5A TO-220 TH	1	U19
12-02-1088	IC REG ADJ TO-220 TH	1	U13
12-02-7805	IC REG +5V 1.5 AMP TH	1	U10
12-54-0072	IC OP AMP DUAL TL072 SM	2	U8,U11
12-64-4272	IC STEREO AUDIO CODEC 24 BIT 192 KHz CS4272 SM	2	U4,U6
15-65-0004	IC 74LVC04 LOW VOLTAGE HEX INV ERTER SO-14 SM	1	U17
15-65-0595	IC 74LVC595A OCTAL SHIFT REGSISTER SO-16 SM	1	U20
15-68-2374	IC PWM DC/DC CONVERTER DMP8 SM	1	U1
15-70-0005	IC SDRAM 3.3V 64MB 1M x 16 x 4 EM638165T5-7G TSOP-54 SM	1	U3
15-78-2532	IC FLASH 32Mbit SPI SERIAL SOIC-8 200mil SM	1	U16
15-84-2132	IC MCU 16/32bit ARM7TDMI w/ 64KB FLASH 16K SRAM LQFP64 SM	1	U12
15-86-2371	IC DSP SHARC PROCESSOR 32 BIT ADSP-21371 LQFP208EP SM	1	U7
15-92-5811	IC RESET PUSH PULL OUTPUT 3.3V ACTIVE LOW SOT-23 SM	1	U14
21-20-0202	HDR SIL PCB-MT 2 PIN x 2MM MAL E SHRD VERT MT TH	1	H8
21-20-0203	HDR SIL PCB-MT 3 PIN x 2MM MAL E SHRD VERT MT TH	1	H5
21-20-0205	HDR SIL PCB-MT 5 PIN x 2MM MAL E SHRD VERT MT TH	3	H6,H12,H13
21-20-0206	HDR SIL PCB-MT 6 PIN x 2MM MAL E SHRD VERT MT TH	1	H3
21-20-1563	HDR SIL PCB-MT 3 PIN x 3.96MM MALE VERT MNT FRIC LOCK	1	H2
21-21-0040	HDR DIL PCB-MT 40 PIN 2 x 20 x .100 MALE SHRD VERT MNT TH	1	H1
30-00-0043	SCREW 6-32 X 5/16 LG WITH LOCK WASHER PHIL PAN ZINC-PLATED STEEL	2	
30-12-0632	STANDOFF HEX .250 6-32 F-F 1IN F-F AL	1	
30-12-2210	STANDOFF HEX .250 6-32 F-F .500 LG AL	1	
35-00-9325	PCB MAIN 4 SV MKII A23	1	
50-02-9326	PCBA UI SV MKII A23	1	
Part Number	Description	Qty	Refdes
50-02-9326	PCBA UI SV MKII A23	1	
01-24-1000	RES 100R 1% 0805	1	R20
01-24-1001	RES 1.00K 1% 0805	1	R23
01-24-1002	RES 10.0K 1% 0805	1	R33
01-24-1003	RES 100K 1% 0805	1	R24
01-24-10R0	RES 10.0R 1% 0805	5	R2,R4,R14,R18,R35
01-24-1501	RES 1.50K 1% 0805	1	R31
01-24-2210	RES 221R 1% 0805	5	R3,R5,R9,R11,R17
01-24-3320	RES 332R 1% 0805	1	R34
01-24-4751	RES 4.75K 1% 0805	4	R10,R13,R21,R25
01-24-4752	RES 47.5K 1% 0805	1	R32
01-25-4751	RES 4.75K 1% 0603	2	R27-R28
01-48-0254	POT MONO 25K ANTILOG 15C TAPER 30MM D-SHAFT	1	R30
01-48-2105	POT MONO 100K LINEAR TAPER 30MM D-SHAFT	1	R29
01-48-6103	POT MONO 10KB LINEAR TAPER 25MM W/9MM NUT D-SHAFT	10	R1,R6,R7,R8,R12,R15,R16,R19,R22,R26
03-52-0104	CAP X7R 0.1uF 50V 10% 0805	4	C2,C3,C30,C39
03-58-0104	CAP X7R 0.1uF 25V 10% 0603	4	C11,C19,C37,C38
03-80-0107	CAP ELEC 100uF 10V 20% SM 6.3/5.4/7.8	2	C1,C33
06-34-0016	DIODE SWITCHING 75V 200mA 6nS SOT-23 SM	4	D19,D35,D43,D44
09-06-7002	TRANS MOSFET N-CHAN 60V 7R5 SOT-23 SM	1	Q3
09-10-0092	TRANS PNP HI VOLTAGE SOT-23 SM	1	Q2
09-10-4401	TRANS NPN SMALL SIGNAL SOT-23 SM	1	Q1
12-62-4052	IC SWITCH ANALOG 4052 SO-16 SM	2	U1,U2
18-02-0003	LED YELLOW SUPER BRIGHT T-1 3M M DIFFUSED TH	7	D17,D18,D20,D23,D28,D38,D45
18-03-0002	LED BLUE DIFFUSED T-1 3/4 5MM 465nm TH	1	D46
18-22-0003	LED YELLOW SUPER BRIGHT 2MM x 1.25MM SM	17	D1,D3,D5,D7,D9,D11,D13,D15,D21,D24,D26,D29,D31,D33,D36,D39,D41
18-22-0004	LED BLUE SUPER 2.0 x 1.2 x 1.1 MM SM	17	D2,D4,D6,D8,D10,D12,D14,D16,D22,D25,D27,D30,D32,D34,D37,D40,D42
21-18-0002	TERMINAL SCREW PCB MOUNT RIGHT ANGLE SNAP-IN 6-32 THREAD	7	BR1,BR2,BR3,BR4,BR5,BR6,BR7
21-20-0202	HDR SIL PCB-MT 2 PIN x 2MM MAL E SHRD VERT MT TH	3	H1,H5,H6
21-20-0203	HDR SIL PCB-MT 3 PIN x 2MM MAL E SHRD VERT MT TH	1	H2
21-21-0040	HDR DIL PCB-MT 40 PIN 2 x 20 x .100 MALE SHRD VERT MNT TH	1	H7
21-26-0002-4	CBL RIBBON 2 COND X .100 9.5" S/T	1	
21-30-0012	CBL SIL 10 PIN 26AWG 2.54MM x 40MM S/T	1	
24-12-0010	ENCODER 20 STEP w/SWITCH 20MM D-SHAFT METAL V-MNT PCB	1	E1
24-31-1105	SWITCH TACT 6MM SQ 4 PIN TH	11	SW1,SW2,SW3,SW4,SW5,SW6,SW7,SW8,ISW9,SW10,SW11
30-27-0218	BUTTON 4 WAY BOTTOM .8 DIA x 0.5 HT ABS	1	
30-27-0221	4-WAY SW PIVOT PIN .37 x .200 DIA NYLON 6/6 WHITE	1	
30-27-0353	BUTTON PLASTIC CLEAR W/CHROME TOP A21	7	
30-27-0363	BUTTON 4 WAY TOP .8 DIA X .4 H T ABS	1	
30-27-0364	FRAME 4-WAY 1.04 DIA X 0.7 ABS A15 A21 A23	1	
30-63-0028	FOAM RING 4-WAY SW RET PU .75 OD x .40 ID x .18 HT BLK	1	
35-00-9326	PCB UI 2 SV MKII A23	1	

50-02-0083	PCBA DISPLAY LCD 2 X 16 POS CHARACTER 12-O'CLOCK AMBER	1	
Part Number	Description	Qty	Refdes
50-02-0083	PCBA DISPLAY LCD 2 X 16 POS CHARACTER 12-O'CLOCK AMBER	1	
18-30-0012	DISPLAY LCD MODULE 2X16 POS CHARACTER 12-OCLOCK AMBER A21	1	
21-30-0015-7	CBL RIBBON SIL 6 COND 26AWG 2 .54MM 5.0" W/SPLIT ENDS S/T	1	
21-30-0015-8	CBL RIBBON SIL 6 COND 26AWG 2 .54MM 7.0" W/SPLIT ENDS S/T	1	
30-27-0283	SPRT DUAL LKG CKT BD TEARDROP .156 LG 6/6 NYLON NAT A15	4	
50-02-9327	PCBA JACK SV MKII A23	1	
Part Number	Description	Qty	Refdes
50-02-9327	PCBA JACK SV MKII A23	1	
01-24-1001	RES 1.00K 1% 0805	2	R3,R6
01-24-1871	RES 1.87K 1% 0805	2	R4,R5
01-24-2210	RES 221R 1% 0805	1	R7
01-24-2371	RES 2.37K 1% 0805	1	R2
01-24-4750	RES 475R 1% 0805	1	R8
01-24-51R1	RES 51.1R 1% 0805	2	R9,R10
01-24-9530	RES 953R 1% 0805	1	R1
01-25-1002	RES 10.0K 1% 0603	1	R11
03-52-0101	CAP X7R 100pF 50V 10% 0805	1	C19
03-56-0101	CAP NPO 100pF 50V 5% 0603	3	C4,C6,C8
03-56-0102	CAP NPO 1nF 50V 5% 0603	5	C3,C5,C14,C15,C17
03-58-0102	CAP X7R 1nF 50V 10% 0603	3	C9,C10,C11
03-58-0104	CAP X7R 0.1uF 25V 10% 0603	8	C1,C2,C7,C12,C13,C16,C18,C20
06-34-0016	DIODE SWITCHING 75V 200mA 6ns SOT-23 SM	1	D1
11-10-0501	FERRITE BEAD 500R @100MHz 2.5A 1206 SM	2	L8,L9
11-10-2012	FERRITE BEAD 600R @ 100MHz 300 mA 0805 SM	15	L1,L2,L3,L4,L5,L6,L7,L10,L11,L12,L13,L14,L15,L16,L17
15-40-6138	IC OPTO ISOLATOR 6N138 DIP 8 P IN TH	1	U1
15-62-0004	IC 74HC04 HEX INVERTER SO-14 S M	1	U2
21-00-6617	JACK 1/4" TRS PCB MOUNT 6 PIN HORIZONTAL W/CHROME HRDWARE TH	2	J1,J2
21-04-5075	JACK DIN FEMALE MIDI 5 PIN PCB MOUNT RT ANGLE	2	J5,J6
21-08-0013	JACK XLR MALE PCB MOUNT RIGHT ANGLE TH	1	J3
21-16-0045	JACK RJ-45 MOD 8/8 RT/A FEMALE PCB 50AU	1	J4
21-18-0002	TERMINAL SCREW PCB MOUNT RIGHT ANGLE SNAP-IN 6-32 THREAD	2	BR1,BR2
21-20-0203	HDR SIL PCB-MT 3 PIN x 2MM MAL E SHRD VERT MT TH	1	H1
21-20-0205	HDR SIL PCB-MT 3 PIN x 2MM MAL E SHRD VERT MT TH	3	H2,H3,H4
24-09-0129	SWITCH SLIDE DPDT 4MM 8MM SHAF T HORIZONTAL MNT	1	SW1
30-18-3030	CLIP GROUND PCB .30 x .30 x .07	3	GF1,GF2,GF3
35-00-9327	PCB JACK 4 SV MKII A23	1	
50-02-9328	PCBA SPEAKER OUT SV MKII A23	1	
Part Number	Description	Qty	Refdes
50-02-9328	PCBA SPEAKER OUT SV MKII A23	1	
35-00-9328	PCB SPEAKER OUT SV MKII 2 COMBO (A23-2 A23-3)	1	
01-23-2700	RES WIREWOUND 270R 5W 5% TH	1	R2
21-00-6617	JACK 1/4" TRS PCB MOUNT 6 PIN HORIZONTAL W/CHROME HRDWARE TH	3	J1,J2,J4
21-20-3124	HDR SIL PCB-MT 4 PIN x 7.92MM MALE VERT MNT FRIC LOCK	1	H3
21-20-0203	HDR SIL PCB-MT 3 PIN x 2MM MAL E SHRD VERT MT TH	1	H2
21-20-0202	HDR SIL PCB-MT 2 PIN x 2MM MAL E SHRD VERT MT TH	1	H1
30-18-3030	CLIP GROUND PCB .30 x .30 x .07	3	GF1,GF2,GF4
03-58-0104	CAP X7R 0.1uF 25V 10% 0603	3	C1,C2,C4
50-02-9330	PCBA GUITAR INPUT SV MKII 2 A23	1	
Part Number	Description	Qty	Refdes
50-02-9330	PCBA GUITAR INPUT SV MKII 2 A23	1	
12-54-0072	IC OP AMP DUAL TL072 SM	1	U14
30-51-0146	SHIELD PCB MT FOR 1/4 JACK 1.00 Hx1.25Wx.013THK BERYL COP	1	SH1
01-24-1502	RES 15.0K 1% 0805	1	R46
01-24-1004	RES 1.00M 1% 0805	1	R45
01-24-1001	RES 1.00K 1% 0805	2	R40,R41
21-00-6617	JACK 1/4" TRS PCB MOUNT 6 PIN HORIZONTAL W/CHROME HRDWARE TH	1	J5
21-20-0206	HDR SIL PCB-MT 6 PIN x 2MM MAL E SHRD VERT MT TH	1	H2
30-18-3030	CLIP GROUND PCB .30 x .30 x .07	1	GF1
06-34-0031	DIODE GEN PUR DUAL 120V 600mA 50ns SOT-23 SM	1	D5
03-52-0473	CAP X7R 47nF 50V 10% 0805	2	C43,C51
03-52-0470	CAP X7R 47pF 50V 10% 0805	1	C45
03-52-0104	CAP X7R 0.1uF 50V 10% 0805	1	C1
35-00-9330	PCB GUITAR INPUT SV MKII A23	1	

99-021-0615 SPIDER VALVE MKII HD US - A23-4			
Part Number	Description	Qty	Refdes
21-37-1160	CBL PWR UL/CSA SJT 8.2FT BLK E L-302 w/GND EL70	1	
40-00-0233	MANUAL QUICK START GUIDE SV MKII A23	1	
40-01-0016	CARD LICENSE-AGREEMNT END-USER ALL-PRODUCTS	1	
40-03-0031	CARD REGISTRATION UK	1	
40-03-2000	CARD REGISTRATION US	1	
40-03-2000-1	CARD REGISTRATION EUROPE	1	
40-10-0006B	FOAM CORNER PE-LAM 1.5pcf BOTTOM	4	
40-10-0006T	FOAM CORNER PE-LAM 1.5pcf TOP	4	
40-10-0297	CARTON GIFT SV MKII HD100 A23-4	1	
40-10-0300	CARTON SHIPPING SV MKII HD A23-4	1	
40-15-0022	SILICA GEL PACK 3.0" x 3.5"	3	
40-15-0023	ANTISEPTIC PACK (5g/package)	1	
40-20-0010-3	POLYBAG 10PE 1090MM x 700MM	1	
40-20-0011	BAG PLASTIC 10 x 16 2 mil	1	
40-25-0020	LABEL INSPECTION QUALITY	1	
40-25-0024	STICKER ART SEAL EULA	1	
40-25-0083	STICKER CARB WOOD CABINET	1	
40-25-0100	LABEL BAR CODE SERIAL NUMBER 4-PANEL LABEL	1	
40-25-0148	LABEL ETL RYDER 2"X 1" INTERTEK	1	
59-00-1814	ASSY UNIT-COMLETE SV MKII A23-4 US 120V	1	
59-00-1814	ASSY UNIT-COMLETE SV MKII A23-4 US 120V	1	
Part Number	Description	Qty	Refdes
30-00-0125	SCREW 8-32 x 5/16 W/LK WASH PP H BLK STL	2	
30-00-0812	SCREW w/WAX 8 x 3/4 PTB	8	
30-00-0858	SCREW #8 x 5/8IN PHIL-TRUSS BLACK w/WAX	6	
30-00-1129	SCREW 10-32 x 1-1/4 OVAL CTSK PB STL w/PILOT TIP	8	
30-00-8102	SCREW WOOD #8 x 1.5" PHP STL BLK OXIDE	1	
30-03-0031	WSHR FL .50 OD x .28 ID x .08 STL BLK OXIDE	9	
30-03-0112	WASHER FINISHING #10 FLANGED STL BLK OXIDE	8	
30-27-0279	LOGO PANEL 22.3 X 4.4 X 2.4 CAST ACRYLIC CLEAR A15-3 & A23-4	1	
30-51-0312	MESH REAR 23.9 X 4.4 X .04 STEEL BLACK A15-3 & A23-4	1	
40-25-0199	STICKER SPEAKER-GRILL PROMO SV MKII HD A23-4	1	
50-02-0249	PCBA SV LED BOARD A15-3	2	
Part Number	Description	Qty	Refdes
50-02-0249	PCBA SV LED BOARD A15-3	2	
01-24-78R7	RES 78.7R 1% 0805	2	R1,R2
18-06-7104	LED ULTRA BRIGHT WHITE T1 TH	2	D1,D2
21-20-0202	HDR SIL PCB-MT 2 PIN x 2MM MAL E SHRD VERT MT TH	1	H1
35-00-0249	PCB SV LED BOARD A15-3	1	
50-03-0048	ASSY CAB SV HD A15-3 & SV MKII HD A23-4	1	
30-00-0024	SCREW WD #8 x 1-1/8IN PPB STL	6	
30-00-0122	SCREW 10-24 x 0.7 OVH PHILLIPS NI PLD / CRM	4	
30-00-6839	SCREW WOOD 10-12 x 7/8" PPZ	4	
30-06-1024	NUT-T 10-24 X 5/16 STEEL	4	
30-27-0280	PIPING SV AMPS (A15)	5.6	
30-33-0073	CABINET PLYWOOD HD 25.5 X 8.75 X 9.0 A15-3 A23-4	1	
30-36-0009	COVER VINYL SV VINYL	5.3	
30-57-0001	HANDLE CABINET PVC BLACK W/CHROME BRACKETS	1	
30-75-0008	RUBBER FOOT 1.50" I.D. X .75"H BLACK	4	
40-25-0083	STICKER CARB WOOD CABINET	1	

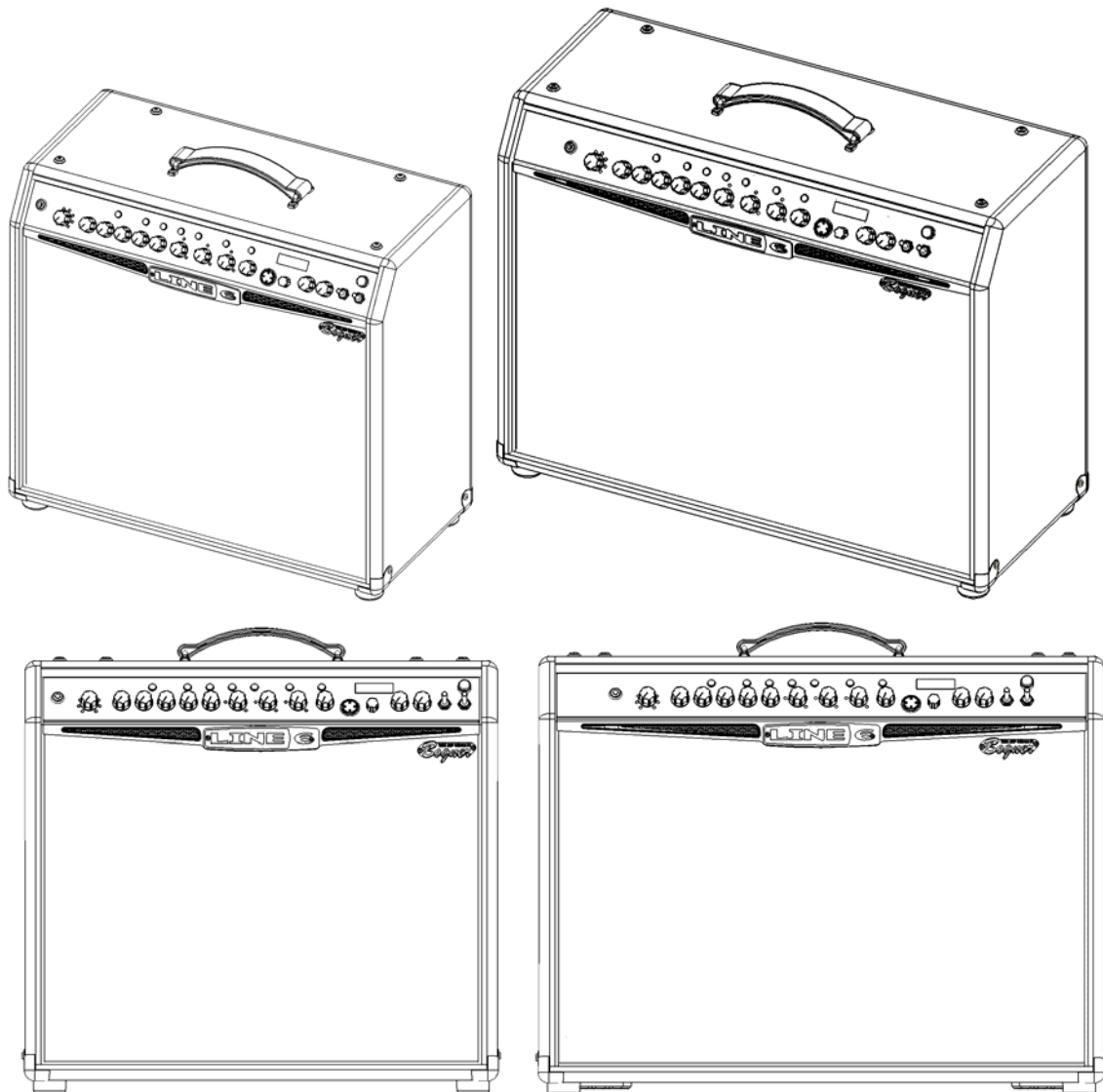
50-04-0295	ASSY E/M CHASSIS SV MKII HD100 A23-4 US 120V	1	
Part Number	Description	Qty	Refdes
50-04-0295	ASSY E/M CHASSIS SV MKII HD100 A23-4 US 120V	1	
11-02-0000	VALVE 12AX7	2	
11-02-0002	VALVE 5881/6L6 MATCHED QUARTET	1	
11-30-0030	XFMR 100/120VAC SV HD100 A15-3	1	
11-33-0018	XFMR OUTPUT SPIDER VALVE A23-4	1	
21-34-0076-3	CBL SIL 2 COND 26AWG 2MM x 14.5" JST PHR-2 BLACK	1	
21-34-0076-7	CBL SIL 2 COND 26AWG 2MM X 10.5" JST PHR-2 BLK	1	
21-34-0085-1	CBL ASSY 5 COND 26AWG F/F x 4 "	1	
21-34-0085-4	CBL ASSY 5 COND 26AWG F/F X 2.5 "	2	
21-34-0090-3	CBL ASSY RIBBON 40 POS 28AWG 2.0 X 2 F/F X 6"	1	
21-34-0093-1	CBL ASSY SIL 1 COND 26AWG 2.0M M PITCH 6.0" CON1-CON2	1	
21-34-0095	CBL SIL 3 COND 18AWG 3 PIN 5.5" x .156" PITCH WHITE	1	
21-34-0097-1	CBL ASSY 3 PIN SIL 2 COND 7.0" 26AWG SHIELD	1	
21-34-0097-3	CBL ASSY 3 PIN SIL 2 COND 8.5" 26AWG SHIELD	1	
21-34-0100-3	CBL ASSY 3 PIN TO 2 PIN SIL 7.0" 26AWG SHLD	1	
21-34-0101-3	CBL ASSY 2 PIN SIL 11.0" 26AWG SHLD	1	
21-34-0111	CBL ASSY 6 COND 26AWG F/F X 6	1	
21-34-0135-3	CBL ASSY 18AWG 3 PIN SIL 7.0" x 7.0" x .250 RCPT WHITE/BLK	2	
21-34-1023-1	CBL FSTN .205-RCPT/.250-RCPT 1-COND 18AWG 8" BLK	1	
21-48-0004	HOLDER FUSE PANEL MOUNT SHOCK SAFE 500V	1	
21-48-0005	FUSE CAP No. 816 FOR 6.3 x 32M M	1	
24-03-0003	SWITCH TOGGLE SPST ON-OFF SHOR T BAT 250V 10A 2 x QC PNL MNT	2	
24-19-0010	FUSE 1.0A 250V SLOW BLOW 3AG	1	
24-19-0050	FUSE SA 250V 5MM X 20MM TIME LAG VDE CERTIFIED	1	
30-00-0042	SCREW SHEET METAL 4 x 0.375 IN SELF-TAP PPB	2	
30-00-0043	SCREW 6-32 X 5/16 LG WITH LOCK WASHER PHIL PAN ZINC-PLATED STEEL	25	
30-00-0126	SCREW #5-40 x 0.300 PHP SELF - TAP STL	8	
30-00-0150	SCREW 4-40 x .3125 w/LK WASH PAN HD PHIL ZINC	5	
30-00-0226	SCREW 8-32 X 1/4 W/LK WASH PPH BLK STL	4	
30-00-0375	SCREW 6-32 x .375 PPB	2	
30-03-0038	WASHER .91 O.D. x .51 I.D. x .08 THK NYLON (A15)	4	
30-06-0832	NUT .335 HEX 8-32 STL ZINC W/ TOOTH WASHER	4	
30-15-0004	SPACER .13 THICK x .63OD NYLON	8	
30-21-0005	RETAINER TUBE EL34 STYLE	4	
30-24-0003	CABLE TIE 4" CLEAR	6	
30-27-0277	LIGHT PIPE .10 DIA X .34 LG CLEAR PC A15 & A23	17	
30-27-0278	SHIELD LIGHT PIPE .19 DIA X .26 LG ABS BLACK A15 & A23	17	
30-27-0410	BEZEL LCD 2.0 X 0.75 PC CLEAR A23	1	
30-42-0065	OVERLAY UI HD 22.0 X 2.4 X .03 ALUMINUM A23-4	1	
30-45-0020	KNOB 0.84 DIA X 0.6 HIGH UREA PHENOLIC BLACK A15 & A23	12	
30-45-0027	KNOB ENCODER .55 DIA X .50 HT ABS BLK A21 A23	1	
30-51-0113	LENS JEWEL D.610 x H.654" METAL BASE w/NUT CLEAR	1	
30-51-0394	CHASSIS HD 23.8"W X 8.1"D X 3.0"H STEEL A23-4	1	
41-00-0253	ARTWORK SILKSCREEN REAR CHASSIS SV MKII HD A23-4	1	
50-00-0001	ASSY RECEPTACLE-A/C W/GND WIRE SNAP-IN	1	
Part Number	Description	Qty	Refdes
50-00-0001	ASSY RECEPTACLE-A/C W/GND WIRE SNAP-IN	1	
21-14-0002	JACK IEC w/FUSE MALE 3 PIN PAN EL MOUNT SNAP IN VERT	1	
21-34-1116	CBL EARTHING w/EYELET 16AWG 5" GREEN w/YELLOW STRIPE	1	

50-02-0245	PCBA POWER AMP/SUPPLY SV HD100 A15-3	1	
Part Number	Description	Qty	Refdes
50-02-0245	PCBA POWER AMP/SUPPLY SV HD100 A15-3	1	
01-12-0103	RES CARBON FILM 10K 1/4W 5% TH	1	R6
01-12-0474	RES CARBON FILM 470K 1/4W 5% TH	1	R44
01-12-0683	RES CARBON FILM 68K 1/4W 5% TH	1	R5
01-16-0202	RES CARBON FILM 2K 1/2W 5% TH	2	R8,R43
01-16-0334	RES CARBON FILM 330K 1/2W 5% TH	1	R10
01-16-0393	RES CARBON FILM 39K 1/2W 5% TH	1	R2
01-16-0514	RES CARBON FILM 510K 1/2W 5% TH	1	R1
01-17-0103	RES CARBON FILM 10K 1W 5% TH	2	R3,R13
01-17-0104	RES CARBON FILM 100K 1W 5% TH	1	R17
01-17-0105	RES CARBON FILM 1M 1W 5% TH	3	R11,R16,R76
01-17-0184	RES CARBON FILM 180K 1W 5% TH	2	R36-R37
01-17-0204	RES CARBON FILM 200K 1W 5% TH	3	R9,R45,R48
01-17-0222	RES CARBON FILM 2.2K 1W 5% TH	4	R19,R21,R35,R39
01-17-0223	RES CARBON FILM 22K 1W 5% TH	2	R29,R55
01-17-0224	RES CARBON FILM 220K 1W 5% TH	4	R22,R29,R38,R40
01-17-0471	RES CARBON FILM 470R 1W 5% TH	1	R15
01-17-0472	RES CARBON FILM 4.7K 1W 5% TH	1	R12
01-17-0473	RES CARBON FILM 47K 1W 5% TH	1	R4
01-17-0823	RES CARBON FILM 82K 1W 5% TH	1	R14
01-22-0101	RES METAL OXIDE 100R 2W 5% TH	2	R68,R69
01-23-0102	RES WIREWOUND 1K 7W 5% TH	4	R27,R28,R31,R33
01-23-01R0	RES WIREWOUND 1R 3W 1% TH	4	R30,R32,R57,R99
01-23-01R5	RES WIREWOUND 1.5R 7W 5% TH	1	R65
01-23-0253	RES WIREWOUND 25K 5% 3W TH	1	R47
01-23-0331	RES WIREWOUND 330R 7W 5% TH	1	R34
01-23-05R0	RES WIREWOUND 5R 7W 5% TH	2	R58-R59
01-52-0203	POT TRIM 20K SINGLE TURN 1/4 SQ V/ADJ	4	TR1,TR5,TR6,TR7
03-00-0472	CAP CER DISC 4.7nF 1KV Y5P 10MM-LS TH	1	C6
03-00-1470	CAP CER DISC 47pF 1KV TH	1	C15
03-00-2103	CAP CER DISC 10nF 1KV 10% TH	5	C42-C45,C52
03-00-2223	CAP POLY FILM 22nF 600V 10% TH	4	C13,C16,C113,C116
03-14-0337	CAP ELEC 330uF 25V 20% RADIAL 8/11.5/5	1	C24
03-23-0101	CAP ELEC 100uF 160V RADIAL	1	C28
03-23-0220	CAP ELEC 22uF 160V RADIAL	1	C56
03-23-0330	CAP ELEC 33uF 450V RADIAL	2	C2,C39
03-23-0472	CAP ELEC 4700uF 25V RADIAL	1	C20
03-23-1221	CAP ELEC 220UF 350V RADIAL 22MMD X 35MML	4	C34,C35,C36,C37
03-24-0224	CAP MET POLY 0.22uF 63V 10% TH	1	C23
03-24-1223	CAP MET POLY 22nF 630V 10% TH	3	C1,C5,C22
03-24-2104	CAP MET POLY 0.1uF 400V 10% TH WIMA	2	C7,C8
03-36-0105	CAP ESTR 1uF 250VDC 10% TH 18.5/7.4/15/15	1	C4
06-01-4002	DIODE RECTIFIER 1N4002 100V 1A DO-41 TH	4	D24,D25,D26,D27
06-01-4007	DIODE RECTIFIER 1N4007 1KV 1A DO-41 TH	9	D14,D15,D16,D17,D18,D19,D20,D21,D23
21-18-0006	TUBE SOCKET VT8-PTS-B	4	S3,S4,S5,S6
21-18-0007	TUBE SOCKET BELTON VT9-PT	2	S1,S2
21-20-0202	HDR SIL PCB-MT 2 PIN x 2MM MAL E SHRD VERT MT TH	2	
21-20-0203	HDR SIL PCB-MT 3 PIN x 2MM MAL E SHRD VERT MT TH	2	
21-20-1563	HDR SIL PCB-MT 3 PIN x 3.96MM MALE VERT MNT FRIC LOCK	2	H7,H8
21-20-1567	HDR SIL PCB-MT 7 PIN x .156 MA LE VERT MNT FRIC LOCK	1	H5
21-20-3123	HDR SIL PCB-MT 3 PIN x 7.92MM MALE VERT MNT FRIC LOCK	2	H6,H11
21-20-3125	HDR SIL PCB-MT 5 PIN x .312 MA LE VERT MNT FRIC LOCK	1	H10
21-34-1117-1	CBL 1 COND STRAND 18AWG 2.25" .250 RCPT/TND-END WHITE	2	W1,W2
21-48-0520	FUSE CLIP PCB MNT FOR 5 x 20MM	4	LC1,LC2,LC3,LC4
24-19-0007	FUSE 1.0A 5MM x 20MM TIME LAG 218P SERIES	1	F2
24-19-1000	FUSE 10.0A 5MM x 20MM SLOW BLO W	1	F1
35-00-0245	PCB POWER AMP/SUPPLY SV HD100 A15-3	1	
50-02-0245-1	PCBA AC PRIMARY SV HD100 A15-3	1	
03-00-1102	CAP CER DISC Y-CAP 1nF 250VAC 20% 8D/7/7.5	2	C92,C93
03-41-0224	CAP X-CAP 0.22uF 275VAC 20% POLYPROPYLENE 18/9.5/17.5/15	1	C3
11-10-2020	CHOKE WIDE BAND 1-5 TURNS	2	L1,L2
21-20-3122	HDR SIL PCB-MT 2 PIN x 7.92MM MALE VERT MNT FRIC LOCK	1	H1
21-20-3123	HDR SIL PCB-MT 3 PIN x 7.92MM MALE VERT MNT FRIC LOCK	2	H2,H3
35-00-0245-1	PCB AC PRIMARY SV HD100 A15-3	1	

50-02-9325	PCBA MAIN SV MKII A23	1	
Part Number	Description	Qty	Refdes
50-02-9325	PCBA MAIN SV MKII A23	1	
01-24-0000	RES 0R 1% 0805	1	R5
01-24-1000	RES 100R 1% 0805	1	R40
01-24-1002	RES 10.0K 1% 0805	2	R79,R80
01-24-1071	RES 1.07K 1% 0805	1	R1
01-24-10R0	RES 10.0R 1% 0805	2	R69,R75
01-24-17R1	RES 1.78K 1% 0805	1	R2
01-24-2211	RES 2.21K 1% 0805	14	R9,R10,R14,R17,R31,R32,R48,R110,R111,R112,R118,R119,R120,R121
01-24-22R1	RES 22.1R 1% 0805	2	R59,R60
01-24-30R1	RES 30.1R 1% 0805	1	R18
01-24-34R1	RES 3.48K 1% 0805	2	R28,R29
01-24-51R1	RES 51.1R 1% 0805	2	R25,R30
01-24-5360	RES 536R 1% 0805	1	R42
01-24-5361	RES 5.36K 1% 0805	4	R26,R27,R68,R71
01-24-5R11	RES 5.11R 1% 0805	3	R54,R55,R62
01-24-69R1	RES 6.98K 1% 0805	1	R19
01-24-90R9	RES 90.9R 1% 0805	3	R3,R4,R13
01-25-1000	RES 100R 1% 0603	2	R46,R47
01-25-1002	RES 10.0K 1% 0603	9	R56,R61,R65,R73,R93,R105,R106,R107,R108
01-25-1004	RES 1.00M 1% 0603	1	R8
01-25-10R0	RES 10.0R 1% 0603	2	R57,R67
01-25-20R0	RES 20.0R 1% 0603	2	R6,R72
01-25-4751	RES 4.75K 1% 0603	24	R39,R41,R49,R50,R51,R76,R77,R78,R82,R83,R84,R85,R88,R89,R91,R92,R94,R95,R96,R97,R98,R101,R103,R104
01-25-47R5	RES 47.5R 1% 0603	1	R7
01-28-1001	RES 1.00K 1% 1206	1	R20
03-10-0338	CAP ELEC 3300uF 6.3V 20% RADIAL 10/20/5	1	C119
03-11-2688	CAP ELEC RADIAL LOW-Z 6800UF 6.3V 20% 105C 0.014R 16.0MM 25.0MM 7.5MM TH	1	C2
03-50-0221	CAP NPO 220pF 50V 5% 0805	1	C24
03-50-0272	CAP NPO 2.7nF 50V 5% 0805	3	C9,C11,C19
03-50-0330	CAP NPO 33pF 50V 5% 0805	1	C20
03-50-0391	CAP NPO 390pF 50V 5% 0805	1	C38
03-50-0562	CAP NPO 5.6nF 50V 10% 0805	8	C159,C160,C161,C162,C167,C168,C169,C170
03-50-0681	CAP NPO 680pF 50V 5% 0805	4	C21,C23,C28,C85
03-52-0104	CAP X7R 0.1uF 50V 10% 0805	1	C150
03-52-0221	CAP X7R 220pF 50V 10% 0805	3	C13,C16,C31
03-56-0101	CAP NPO 100pF 50V 5% 0603	1	C34
03-56-0180	CAP NPO 18pF 50V 5% 0603	2	C113,C120
03-56-0220	CAP NPO 22pF 50V 5% 0603	2	C14,C15
03-58-0102	CAP X7R 1nF 50V 10% 0603	18	C46,C56,C62,C64,C65,C66,C73,C94,C96,C99,C100,C103,C106,C115,C124,C125,C127,C134
03-58-0103	CAP X7R 10nF 50V 10% 0603	9	C32,C45,C57,C80,C90,C95,C104,C110,C123
03-58-0104	CAP X7R 0.1uF 25V 10% 0603	57	C4,C29,C30,C37,C39,C40,C41,C42,C43,C44,C47,C49,C52,C54,C55,C58,C60,C63,C67,C69,C72,C74,C75,C76,C77,C79,C82,C83,C86,C87,C91,C93,C97,C101,C102,C105,C109,C112,C116,C121,C122,
03-80-0107	CAP ELEC 100uF 10V 20% SM 6.3/5.4/7.8	3	C7,C53,C89
03-80-0227	CAP ELEC 220uF 10V 20% SM 8/6.2/9.5	1	C6
03-80-0476	CAP ELEC 47uF 10V 20% SM 5/5.4/6.5	2	C61,C98
03-80-1476	CAP ELEC 47uF 6.3V 20% SM 5.5/4/5.4	2	C26,C92
03-80-1477	CAP ELEC 470uF 6.3V 20% VS SM	1	C3
03-82-0106	CAP ELEC 10uF 16V 20% SM 4/5.4/5.5	11	C1,C5,C8,C10,C12,C18,C22,C33,C71,C139,C142
03-88-0105	CAP ELEC 1uF 50V 20% VS SM	11	C48,C50,C51,C59,C68,C78,C81,C84,C88,C114,C129
04-01-0004	INDUCTOR CHOKE 150uH 0.4R 1A SM SHIELDED	1	L7
06-23-0054	DIODE SCHOTTKY DUAL 30V 200mA 5nS SOT-23 SM	1	D11
06-32-0130	DIODE SCHOTTKY 1A 30V SMB SM	1	D1
06-34-0031	DIODE GEN PUR DUAL 120V 600mA 50nS SOT-23 SM	4	D3,D4,D5,D15
09-06-7002	TRANS MOSFET N-CHAN 60V 7R5 SOT-23 SM	1	Q1
11-00-0012	CRYSTAL 12MHz SM HC49 FOXSOLF	1	X2
11-00-1003	CRYSTAL 24.576MHz HC49S 2PIN SM	1	X1
12-00-0317	IC VREG ADJ 1.2V-37V 1.5 AMP TO-220 LM317 TH	1	U2

50-02-9325	PCBA MAIN SV MKII A23	1	
Part Number	Description	Qty	Refdes
12-01-7906	IC REG -6V 1.5A TO-220 TH	1	U19
12-02-1088	IC REG ADJ TO-220 TH	1	U13
12-02-7805	IC REG +5V 1.5 AMP TH	1	U10
12-54-0072	IC OP AMP DUAL TL072 SM	2	U8,U11
12-64-4272	IC STEREO AUDIO CODEC 24 BIT 192 KHz CS4272 SM	2	U4,U6
15-65-0004	IC 74LVC04 LOW VOLTAGE HEX INV ERTER SO-14 SM	1	U17
15-65-0595	IC 74LVC595A OCTAL SHIFT RESGISTER SO-16 SM	1	U20
15-68-2374	IC PWM DC/DC CONVERTER DMP8 SM	1	U1
15-70-0005	IC SDRAM 3.3V 64MB 1M x 16 x 4 EM638165TS-7G TSOP-54 SM	1	U3
15-78-2532	IC FLASH 32Mbit SPI SERIAL SOIC-8 200mil SM	1	U16
15-84-2132	IC MCU 16/32Bit ARM7TDMI w/ 64KB FLASH 16K SRAM LQFP64 SM	1	U12
15-86-2371	IC DSP SHARC PROCESSOR 32 BIT ADSP-21371 LQFP208EP SM	1	U7
15-92-5811	IC RESET PUSH PULL OUTPUT 3.3V ACTIVE LOW SOT-23 SM	1	U14
21-20-0202	HDR SIL PCB-MT 2 PIN x 2MM MAL E SHRD VERT MT TH	1	H8
21-20-0203	HDR SIL PCB-MT 3 PIN x 2MM MAL E SHRD VERT MT TH	1	H5
21-20-0205	HDR SIL PCB-MT 5 PIN x 2MM MAL E SHRD VERT MT TH	3	H6,H12,H13
21-20-0206	HDR SIL PCB-MT 6 PIN x 2MM MAL E SHRD VERT MT TH	1	H3
21-20-1563	HDR SIL PCB-MT 3 PIN x 3.96MM MALE VERT MNT FRIC LOCK	1	H2
21-21-0040	HDR DIL PCB-MT 40 PIN 2 x 20 x .100 MALE SHRD VERT MNT TH	1	H1
30-00-0043	SCREW 6-32 X 5/16 LG WITH LOCK WASHER PHIL PAN ZINC-PLATED STEEL	2	
30-12-0632	STANDOFF HEX .250 6-32 F-F .1IN F-F AL	1	
30-12-2210	STANDOFF HEX .250 6-32 F-F .500 LG AL	1	
35-00-9325	PCB MAIN 4 SV MKII A23	1	
50-02-9326	PCBA UI SV MKII A23	1	
01-24-1000	RES 100R 1% 0805	1	R20
01-24-1001	RES 1.00K 1% 0805	1	R23
01-24-1002	RES 10.0K 1% 0805	1	R33
01-24-1003	RES 100K 1% 0805	1	R24
01-24-10R0	RES 10.0R 1% 0805	5	R2,R4,R14,R18,R35
01-24-1501	RES 1.50K 1% 0805	1	R31
01-24-2210	RES 221R 1% 0805	5	R3,R5,R9,R11,R17
01-24-3320	RES 332R 1% 0805	1	R34
01-24-4751	RES 4.75K 1% 0805	4	R10,R13,R21,R25
01-24-4752	RES 47.5K 1% 0805	1	R32
01-25-4751	RES 4.75K 1% 0603	2	R27-R28
01-48-0254	POT MONO 25K ANTILOG 15C TAPER 30MM D-SHAFT	1	R30
01-48-2105	POT MONO 100K LINEAR TAPER 30MM D-SHAFT	1	R29
01-48-6103	POT MONO 10KB LINEAR TAPER 25MM W/9MM NUT D-SHAFT	10	R1,R6,R7,R8,R12,R15,R16,R19,R22,R26
03-52-0104	CAP X7R 0.1uF 50V 10% 0805	4	C2,C3,C30,C39
03-58-0104	CAP X7R 0.1uF 25V 10% 0603	4	C11,C19,C37,C38
03-80-0107	CAP ELEC 100uF 10V 20% SM 6.3/5.4/7.8	2	C1,C33
06-34-0016	DIODE SWITCHING 75V 200mA 6nS SOT-23 SM	4	D19,D35,D43,D44
09-06-7002	TRANS MOSFET N-CHAN 60V 7R5 SOT-23 SM	1	Q3
09-10-0092	TRANS PNP HI VOLTAGE SOT-23 SM	1	Q2
09-10-4401	TRANS NPN SMALL SIGNAL SOT-23 SM	1	Q1
12-62-4052	IC SWITCH ANALOG 4052 SO-16 SM	2	U1,U2
18-02-0003	LED YELLOW SUPER BRIGHT T-1 3M M DIFFUSED TH	7	D17,D18,D20,D23,D28,D38,D45
18-03-0002	LED BLUE DIFFUSED T-1 3/4 SMM 465nm TH	1	D46
18-22-0003	LED YELLOW SUPER BRIGHT 2MM x 1.25MM SM	17	D1,D3,D5,D7,D9,D11,D13,D15,D21,D24,D26,D29,D31,D33,D36,D39,D41
18-22-0004	LED BLUE SUPER 2.0 x 1.2 x 1.1 MM SM	17	D2,D4,D6,D8,D10,D12,D14,D16,D22,D25,D27,D30,D32,D34,D37,D40,D42
21-18-0002	TERMINAL SCREW PCB MOUNT RIGHT ANGLE SNAP-IN 6-32 THREAD	7	BR1,BR2,BR3,BR4,BR5,BR6,BR7
21-20-0202	HDR SIL PCB-MT 2 PIN x 2MM MAL E SHRD VERT MT TH	3	H1,H5,H6
21-20-0203	HDR SIL PCB-MT 3 PIN x 2MM MAL E SHRD VERT MT TH	1	H2
21-21-0040	HDR DIL PCB-MT 40 PIN 2 x 20 x .100 MALE SHRD VERT MNT TH	1	H7
21-26-0002-4	CBL RIBBON 2 COND X .100 9.5" S/T	1	
21-30-0012	CBL SIL 10 PIN 26AWG 2.54MM x 40MM S/T	1	
24-12-0010	ENCODER 20 STEP w/SWITCH 20MM D-SHAFT METAL V-MNT PCB	1	E1
24-31-1105	SWITCH TACT 6MM SQ 4 PIN TH	11	SW1,SW2,SW3,SW4,SW5,SW6,SW7,SW8,ISW9,SW10,SW11
30-27-0218	BUTTON 4 WAY BOTTOM .8 DIA x 0.5 HT ABS	1	
30-27-0221	4-WAY SW PIVOT PIN .37 x .200 DIA NYLON 6/6 WHITE	1	
30-27-0353	BUTTON PLASTIC CLEAR W/CHROME TOP A21	7	
30-27-0363	BUTTON 4 WAY TOP .8 DIA X .4 H T ABS	1	
30-27-0364	FRAME 4-WAY 1.04 DIA X 0.7 ABS A15 A21 A23	1	
30-63-0028	FOAM RING 4-WAY SW RET PU .75 OD x .40 ID x .18 HT BLK	1	
35-00-9326	PCB UI 2 SV MKII A23	1	

50-02-0083	PCBA DISPLAY LCD 2 X 16 POS CHARACTER 12-O'CLOCK AMBER	1	
Part Number	Description	Qty	Refdes
50-02-0083	PCBA DISPLAY LCD 2 X 16 POS CHARACTER 12-O'CLOCK AMBER	1	
18-30-0012	DISPLAY LCD MODULE 2X16 POS CHARACTER 12-OCLOCK AMBER A21	1	
21-30-0015-7	CBL RIBBON SIL 6 COND 26AWG 2. 54MM 5.0" W/SPLIT ENDS S/T	1	
21-30-0015-8	CBL RIBBON SIL 6 COND 26AWG 2. 54MM 7.0" W/SPLIT ENDS S/T	1	
30-27-0283	SPRT DUAL LKG CKT BD TEARDROP .156 LG 6/6 NYLON NAT A15	4	
50-02-9327	PCBA JACK SV MKII A23	1	
Part Number	Description	Qty	Refdes
50-02-9327	PCBA JACK SV MKII A23	1	
01-24-1001	RES 1.00K 1% 0805	2	R3,R6
01-24-1871	RES 1.87K 1% 0805	2	R4,R5
01-24-2210	RES 221R 1% 0805	1	R7
01-24-2371	RES 2.37K 1% 0805	1	R2
01-24-4750	RES 475R 1% 0805	1	R8
01-24-51R1	RES 51.1R 1% 0805	2	R9,R10
01-24-9530	RES 953R 1% 0805	1	R1
01-25-1002	RES 10.0K 1% 0603	1	R11
03-52-0101	CAP X7R 100pF 50V 10% 0805	1	C19
03-56-0101	CAP NPO 100pF 50V 5% 0603	3	C4,C6,C8
03-56-0102	CAP NPO 1nF 50V 5% 0603	5	C3,C5,C14,C15,C17
03-58-0102	CAP X7R 1nF 50V 10% 0603	3	C9,C10,C11
03-58-0104	CAP X7R 0.1uF 25V 10% 0603	8	C1,C2,C7,C12,C13,C16,C18,C20
06-34-0016	DIODE SWITCHING 75V 200mA 6nS SOT-23 SM	1	D1
11-10-0501	FERRITE BEAD 500R @ 100MHz 2.5A 1206 SM	2	L8,L9
11-10-2012	FERRITE BEAD 600R @ 100MHz 300 mA 0805 SM	15	L1,L2,L3,L4,L5,L6,L7,L10,L11,L12,L13,L14,L15,L16,L17
15-40-6138	IC OPTO ISOLATOR 6N138 DIP 8 P IN TH	1	U1
15-62-0004	IC 74HC04 HEX INVERTER SO-14 S M	1	U2
21-00-6617	JACK 1/4" TRS PCB MOUNT 6 PIN HORIZONTAL W/CHROME HRDWARE TH	2	J1,J2
21-04-5075	JACK DIN FEMALE MIDI 5 PIN PCB MOUNT RT ANGLE	2	J5,J6
21-08-0013	JACK XLR MALE PCB MOUNT RIGHT ANGLE TH	1	J3
21-16-0045	JACK RJ-45 MOD 8/8 RT/A FEMALE PCB 50AU	1	J4
21-18-0002	TERMINAL SCREW PCB MOUNT RIGHT ANGLE SNAP-IN 6-32 THREAD	2	BR1,BR2
21-20-0203	HDR SIL PCB-MT 3 PIN x 2MM MAL E SHRD VERT MT TH	1	H1
21-20-0205	HDR SIL PCB-MT 5 PIN x 2MM MAL E SHRD VERT MT TH	3	H2,H3,H4
24-09-0129	SWITCH SLIDE DPDT 4MM 8MM SHAF T HORIZONTAL MNT	1	SW1
30-18-3030	CLIP GROUND PCB .30 x .30 x .0 7	3	GF1,GF2,GF3
35-00-9327	PCB JACK 4 SV MKII A23	1	
50-02-9329	PCBA SPEAKER OUT SV MKII 2 HEAD (A23-4)	1	
Part Number	Description	Qty	Refdes
50-02-9329	PCBA SPEAKER OUT SV MKII 2 HEAD (A23-4)	1	
01-23-2701	RES WIREWOUND 270R 10W 5% TH	1	R2
03-58-0104	CAP X7R 0.1uF 25V 10% 0603	5	C1,C2,C3,C4,C5
21-00-6617	JACK 1/4" TRS PCB MOUNT 6 PIN HORIZONTAL W/CHROME HRDWARE TH	5	J1,J2,J3,J4,J5
21-20-0202	HDR SIL PCB-MT 2 PIN x 2MM MAL E SHRD VERT MT TH	1	H1
21-20-0203	HDR SIL PCB-MT 3 PIN x 2MM MAL E SHRD VERT MT TH	1	H2
21-20-3124	HDR SIL PCB-MT 4 PIN x 7.92MM MALE VERT MNT FRIC LOCK	1	H3
30-18-3030	CLIP GROUND PCB .30 x .30 x .0 7	5	GF1,GF2,GF3,GF4,GF5
35-00-9329	PCB SPEAKER OUT SV MKII 2 HEAD (A23-4)	1	
50-02-9330	PCBA GUITAR INPUT SV MKII 2 A23	1	
Part Number	Description	Qty	Refdes
50-02-9330	PCBA GUITAR INPUT SV MKII 2 A23	1	
12-54-0072	IC OP AMP DUAL TL072 SM	1	U14
30-51-0146	SHIELD PCB MT FOR 1/4 JACK 1.00 Hx1.25Wx.013THK BERYL COP	1	SH1
01-24-1502	RES 15.0K 1% 0805	1	R46
01-24-1004	RES 1.00M 1% 0805	1	R45
01-24-1001	RES 1.00K 1% 0805	2	R40,R41
21-00-6617	JACK 1/4" TRS PCB MOUNT 6 PIN HORIZONTAL W/CHROME HRDWARE TH	1	J5
21-20-0206	HDR SIL PCB-MT 6 PIN x 2MM MAL E SHRD VERT MT TH	1	H2
30-18-3030	CLIP GROUND PCB .30 x .30 x .0 7	1	GF1
06-34-0031	DIODE GEN PUR DUAL 120V 600mA 50nS SOT-23 SM	1	D5
03-52-0473	CAP X7R 47nF 50V 10% 0805	2	C43,C51
03-52-0470	CAP X7R 47pF 50V 10% 0805	1	C45
03-52-0104	CAP X7R 0.1uF 50V 10% 0805	1	C1
35-00-9330	PCB GUITAR INPUT SV MKII A23	1	



Forward and Notes

The information in this booklet applies to the SV MarkII Combos (A23-2, A23-3) Complete Unit. It is suggested that the steps for assembly follow the order presented in these instructions.

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.
- 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.



Revision Comment Sheet

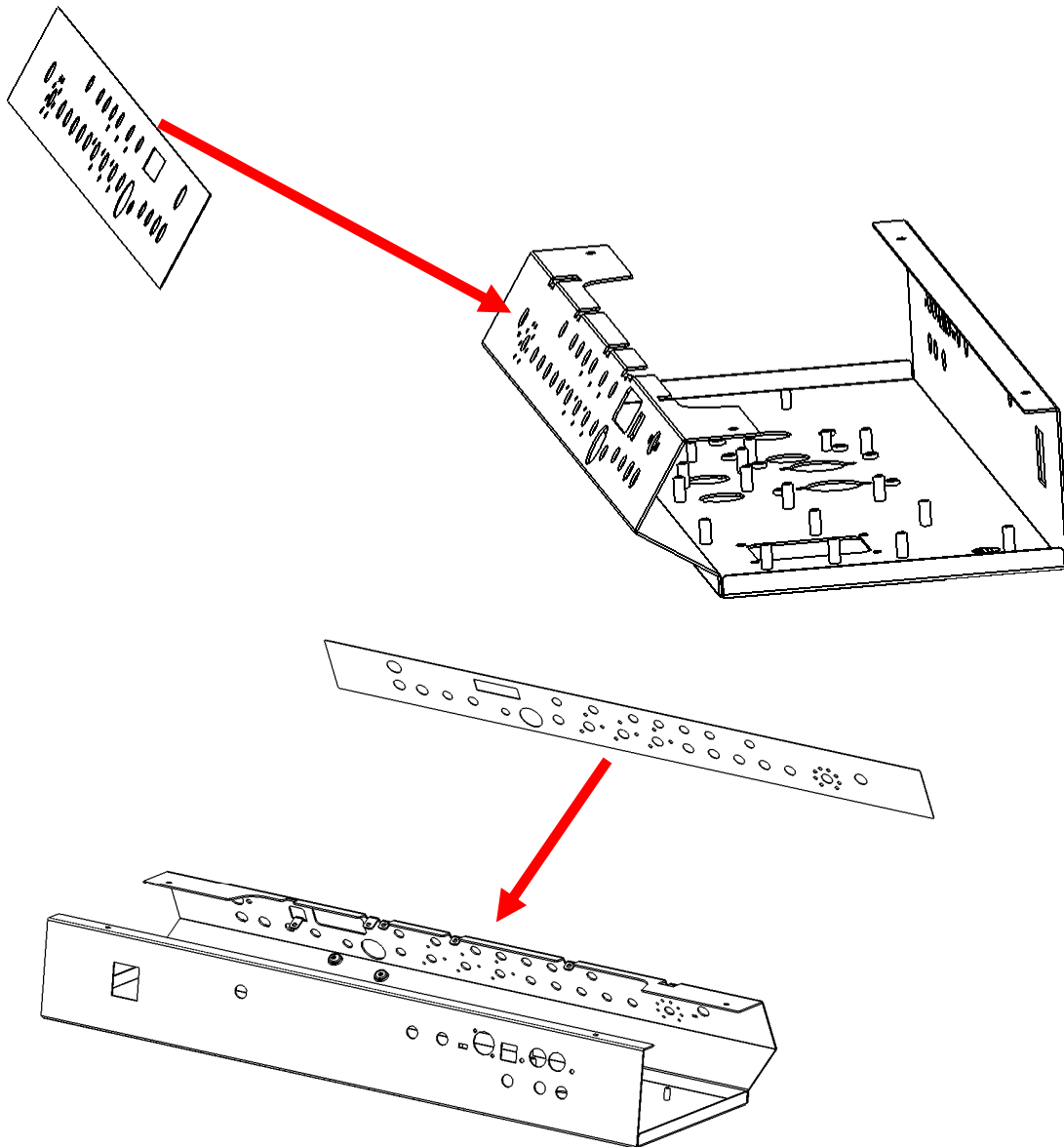
Revision	Changes
A	ECO 0000642. Initial release.
B	ECO 0001138. Step 55b (added) – Foam strip application to logo frame.
C	ECO 0001222. Step 10 – Added loctite application.
D	ECO 0002175. Step 65 – Revised SCREW part number. Step 66 – Revised SCREW part number.

STEP 1

P/N required:

1 each **30-42-0063-1 (A23-2) or 30-42-0063-2 (A23-3) OVERLAY**

Remove the protective backing from the UI OVERLAY and press it into place on the CHASSIS face as shown. Use a fixture to align the UI OVERLAY with edges and cutouts on the CHASSIS face.



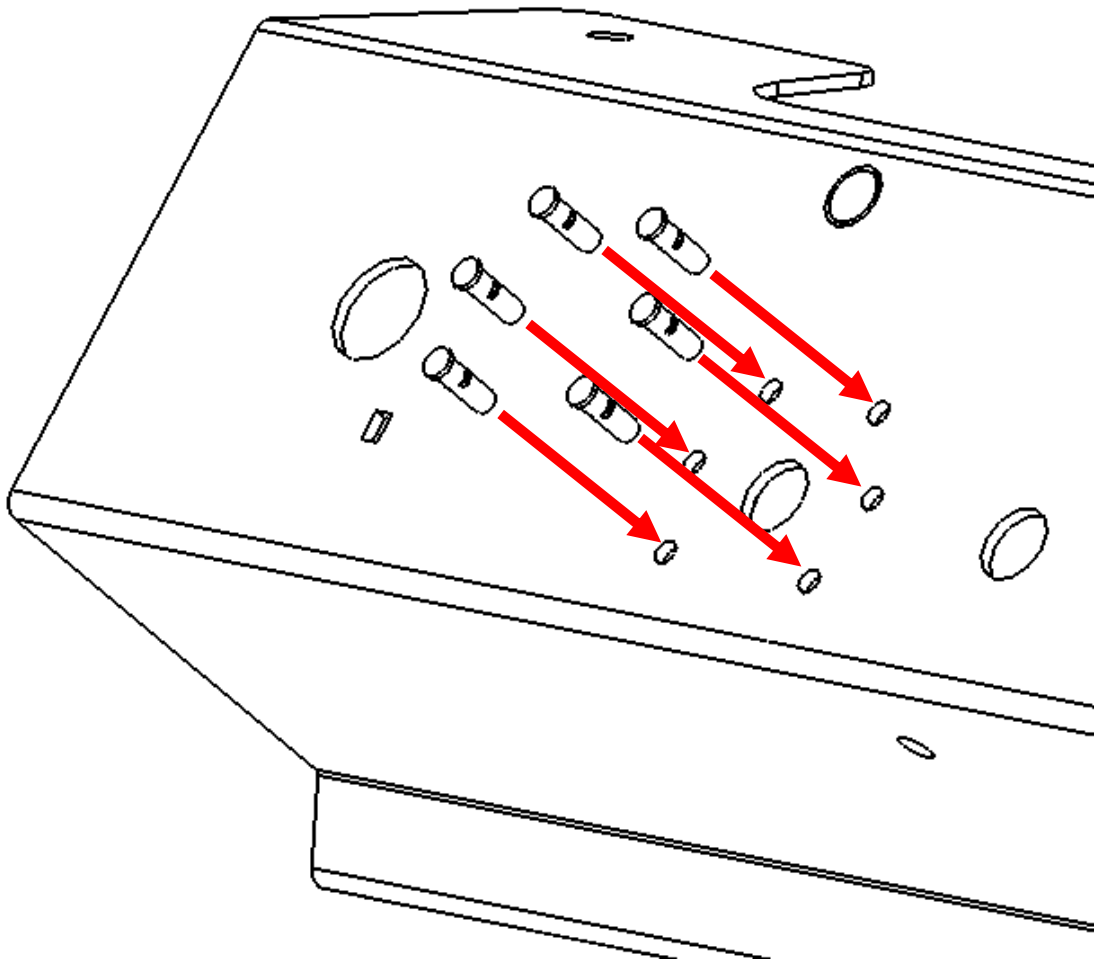
STEP 2

P/N required:

1 each **30-51-0392-1 (A23-2) or 30-51-0392-2 (A23-3)** CHASSIS

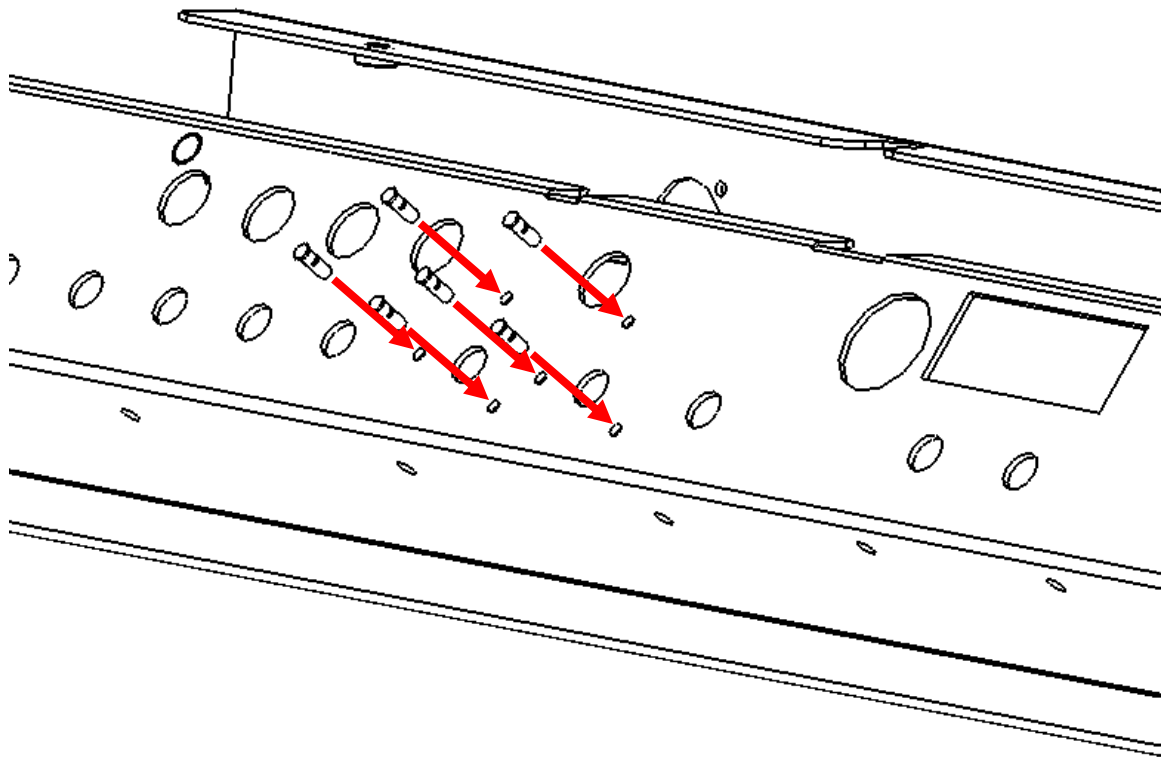
17 each **30-27-0277** SMALL LIGHT PIPE

Insert the SMALL LIGHT PIPES into the 17 small holes as shown.



(Step 2 is continued on the next page.)

STEP 2 (continued)

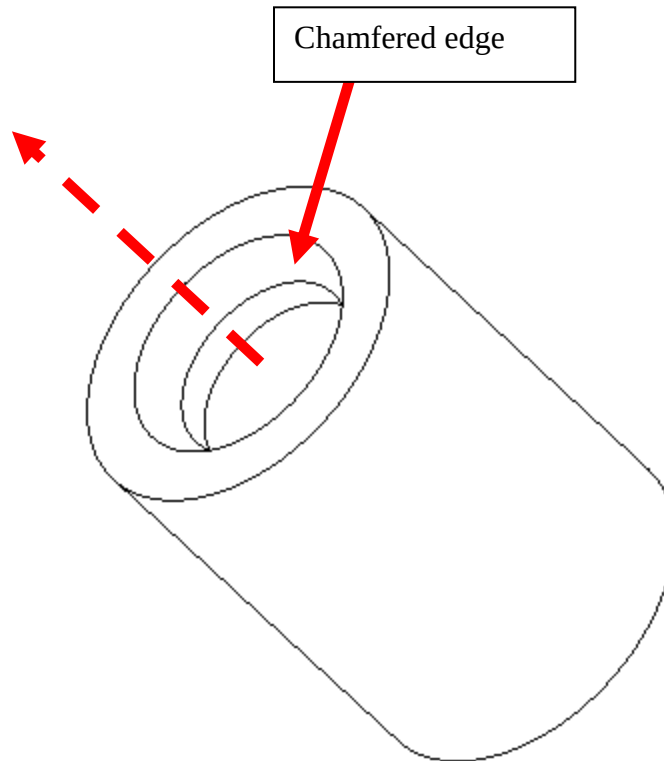


STEP 3

P/N required:

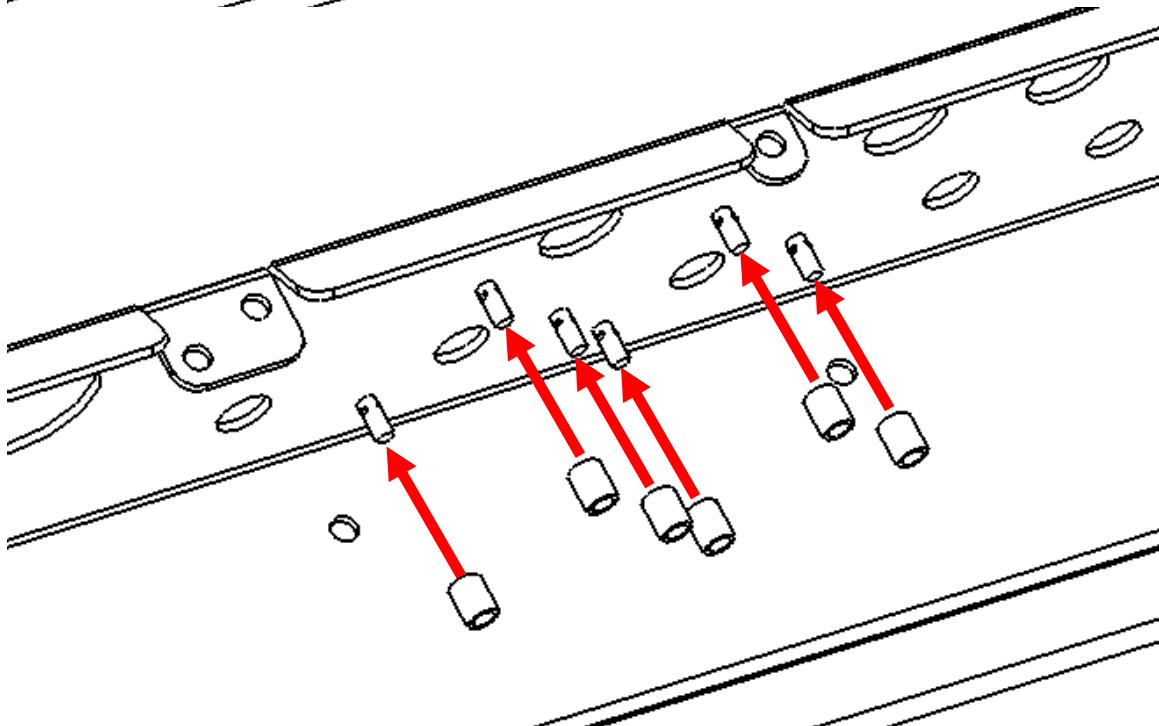
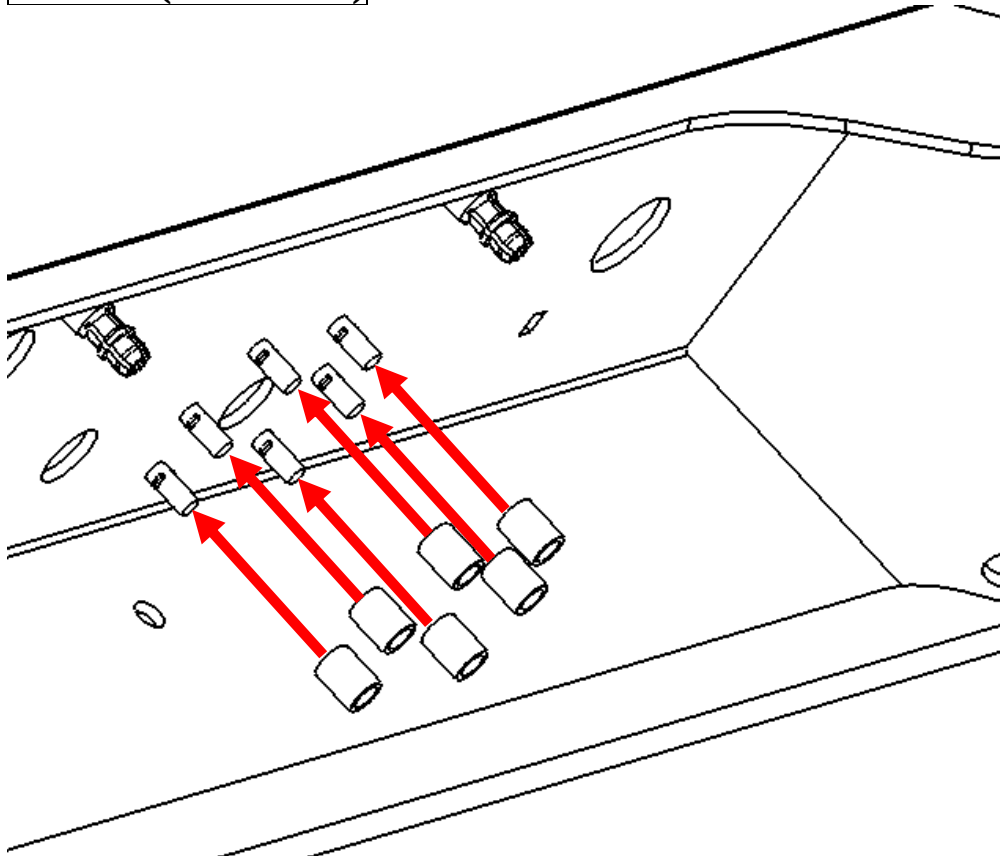
17 each **30-27-0278** LIGHT PIPE SHIELD

Install one LIGHT PIPE SHIELD over each SMALL LIGHT PIPE. Push the LIGHT PIPE SHIELD until it snaps onto the SMALL LIGHT PIPE.



(Step 3 is continued on the next page.)

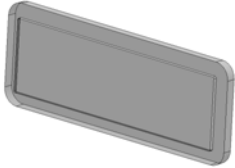
STEP 3 (continued)



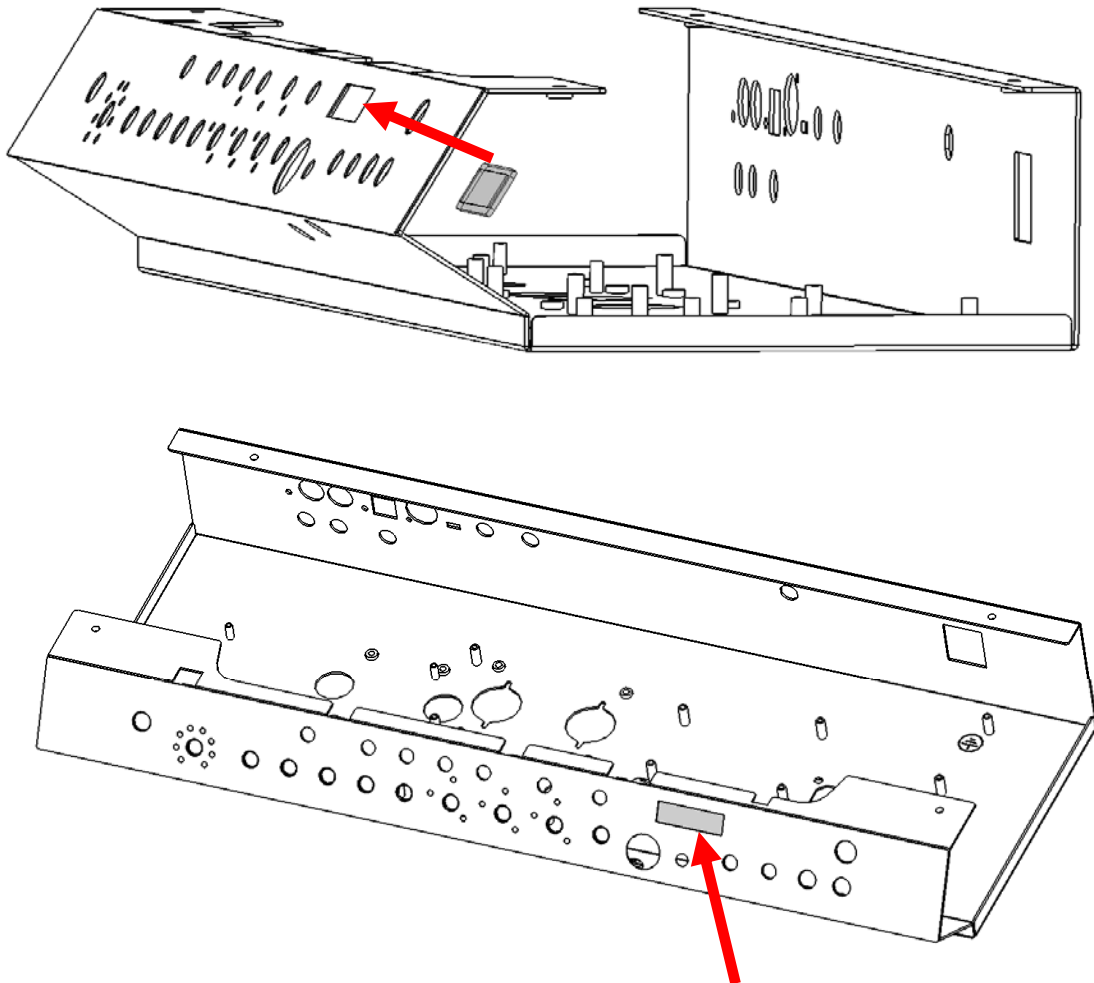
STEP 3

P/N required:

1 each **30-27-0410** LCD BEZEL



Press the LCD BEZEL into place such that the oval-shaped protrusion fits into the oval-shaped cutout in the UI OVERLAY.

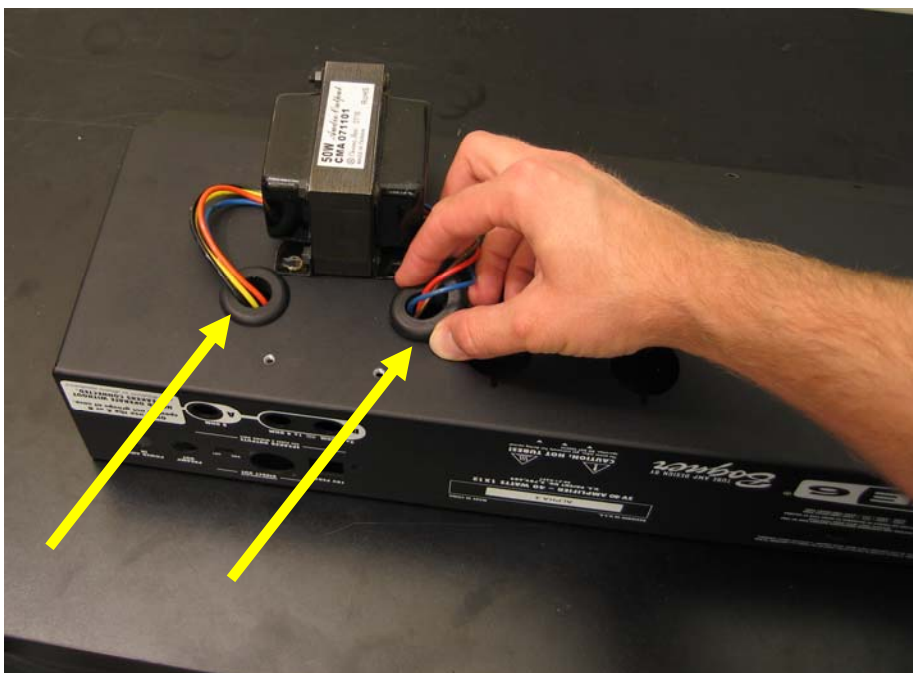
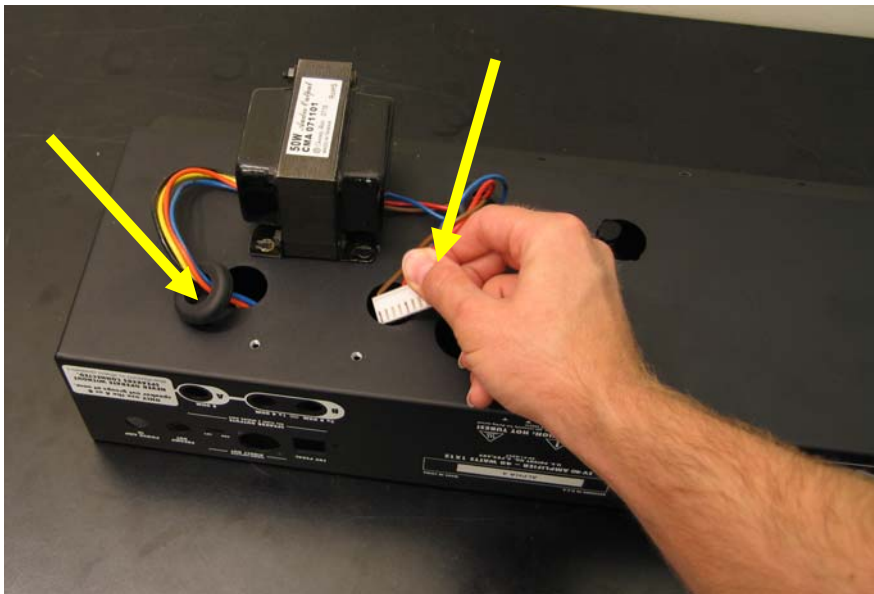


STEP 5

P/N required:

1 each **11-33-0017** OUTPUT TRANSFORMER

Pass the cables from the OUTPUT TRANSFORMER through the holes in the CHASSIS as shown. Install the RUBBER GROMMETS in the holes in the CHASSIS.



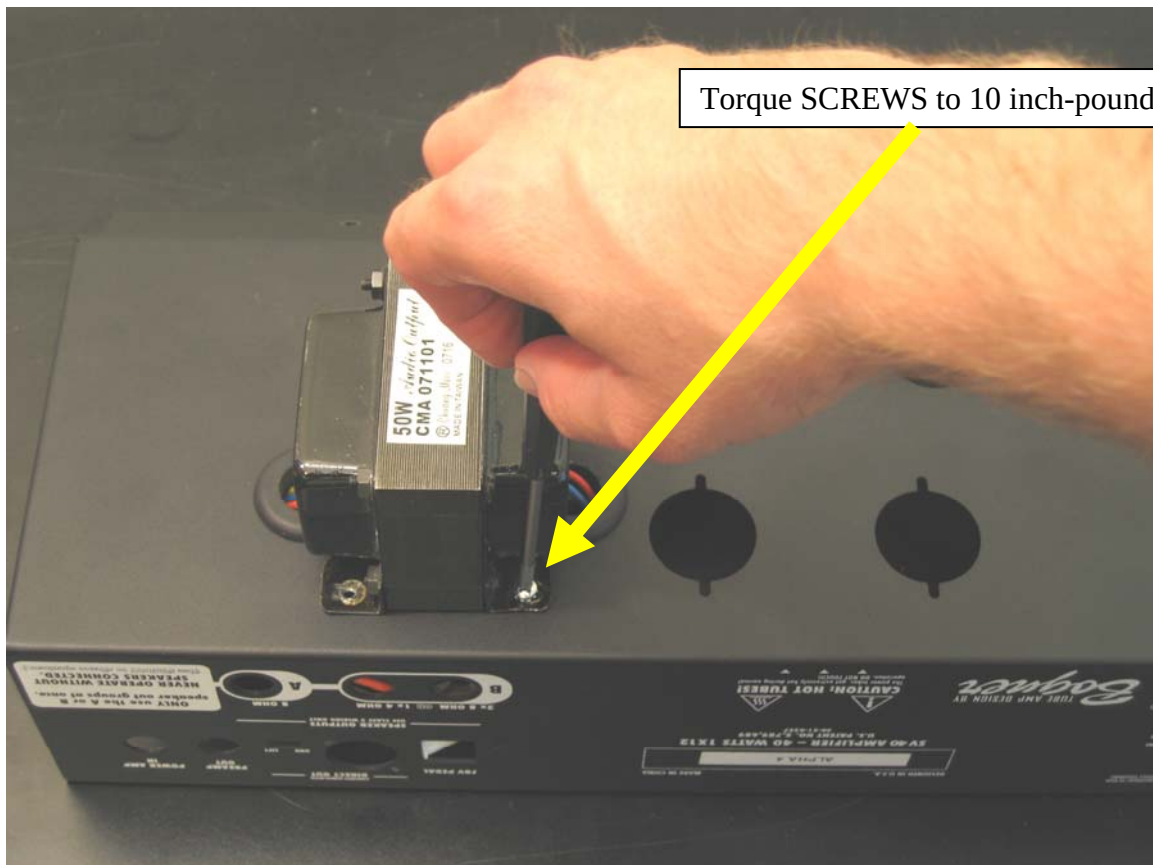
STEP 6

P/N required:

4 each **30-00-0125** SCREW 8-32 x 5/16 w/LK WASH BLK

Secure the OUTPUT TRANSFORMER to the chassis with 4 SCREWS.

Torque the SCREWS to 8 – 10 inch-pounds.



STEP 7

P/N required:

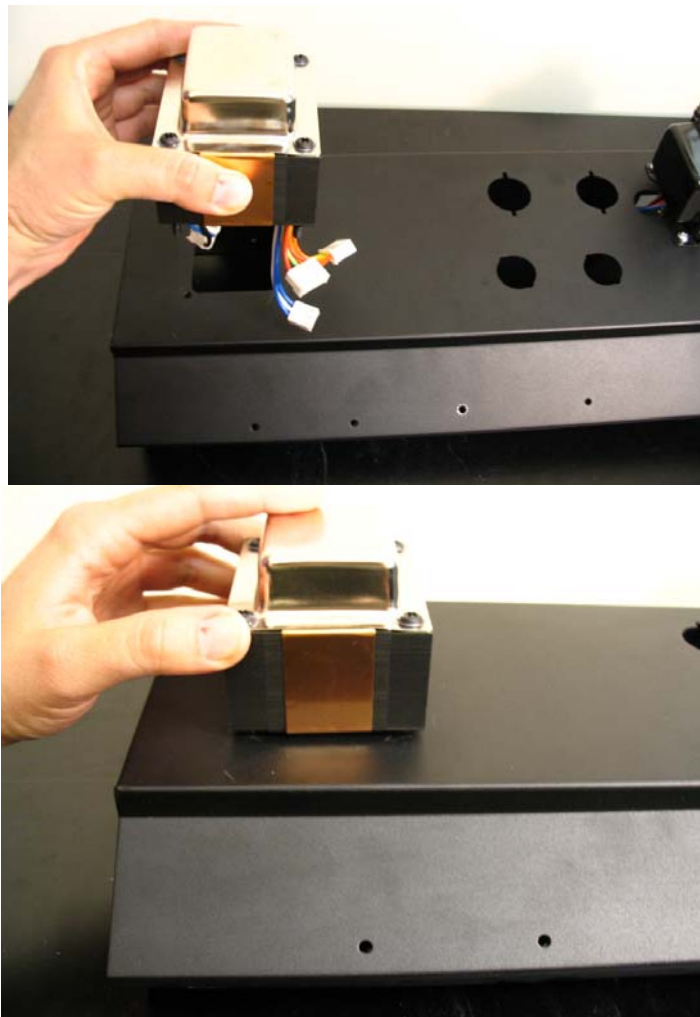
1 each POWER TRANSFORMER (see Table 1)

4 each **30-06-0832** HEX NUT 8-32 WITH STAR WASHER

Torque NUTS to 8 – 10 inch-pounds. Apply loctite to each hex nut. Align the POWER TRANSFORMER such that the cables are located as shown.

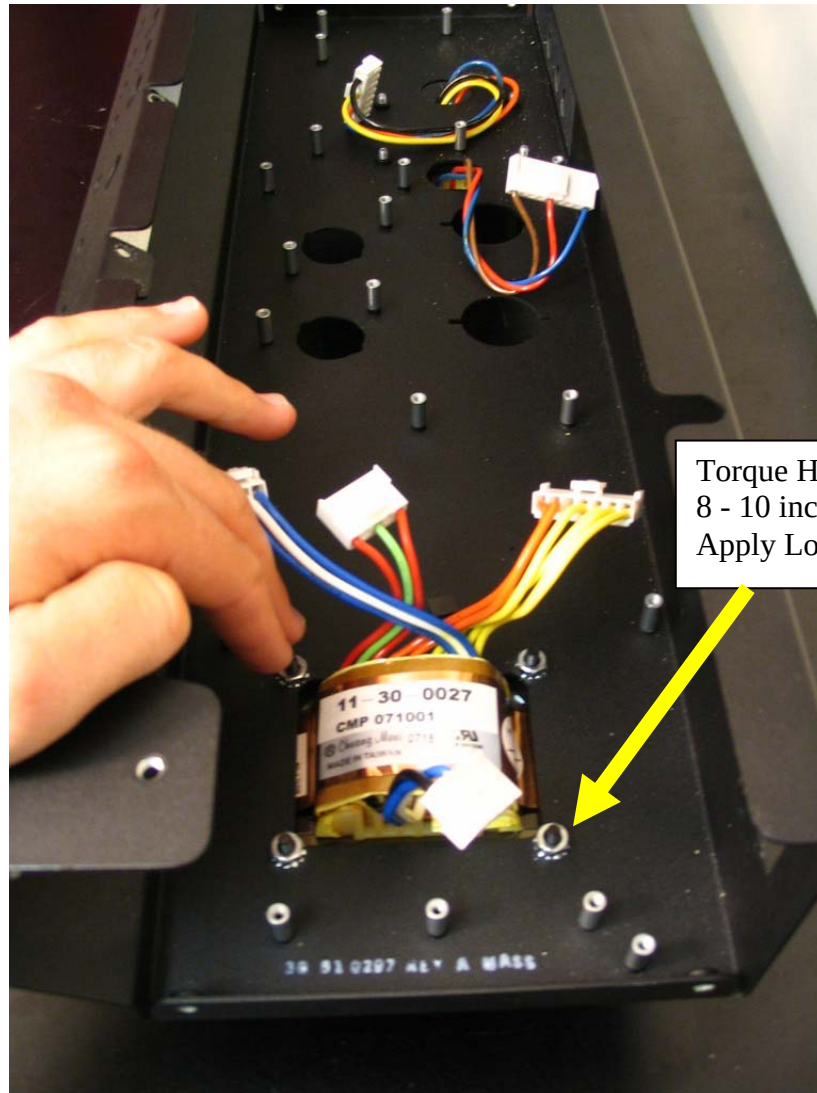
Table 1

AC Voltage	POWER TRANSFORMER part number
100 VAC (JA)	11-30-0027
120 VAC (US)	11-30-0027
240 VAC (AU, UK, EU)	11-30-0029



(Step 7 is continued on the next page.)

STEP 7 (continued)



Torque HEX NUTS to
8 - 10 inch-pounds.
Apply Loctite.

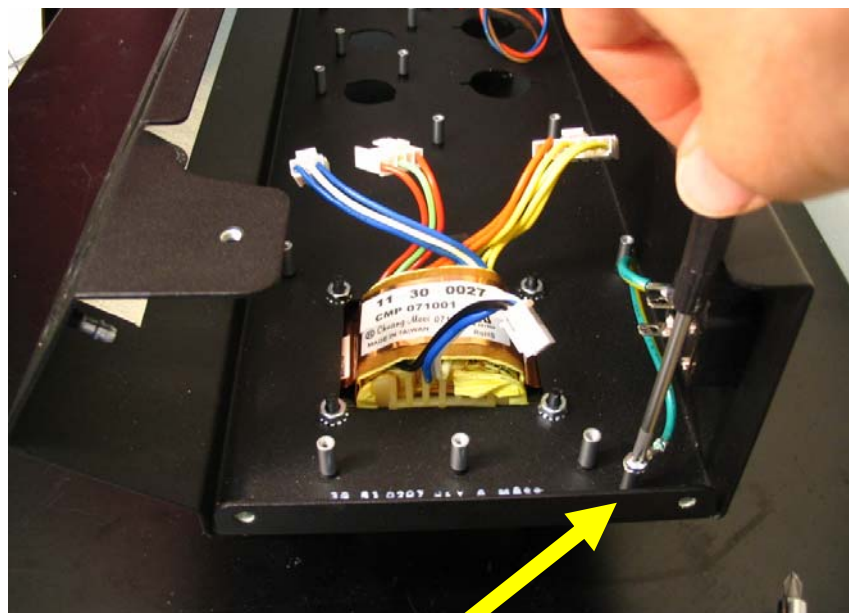
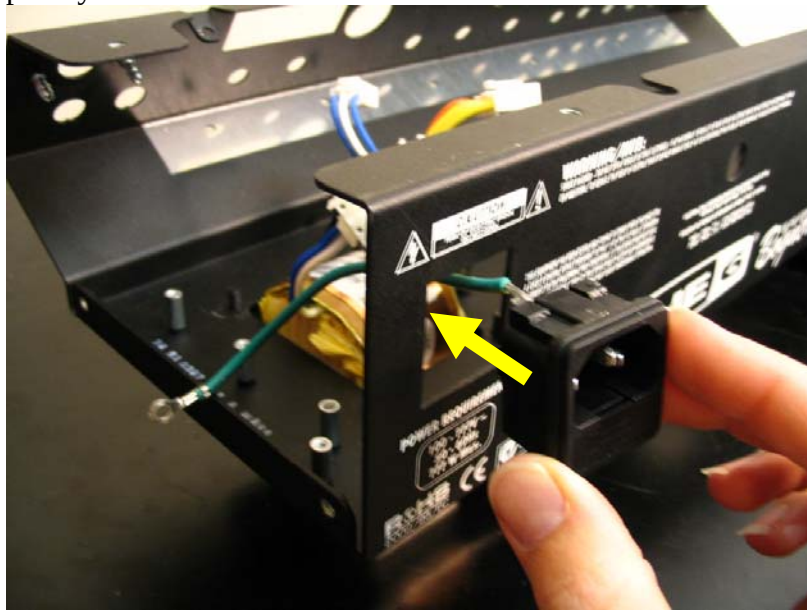
STEP 8

P/N required:

1 each **50-00-0001** AC RECEPTACLE ASSEMBLY

1 each **30-00-0043** SCREW 6-32 x 5/16" WITH STAR WASHER

Secure the cable from the AC RECEPTACLE ASSEMBLY to the threaded insert shown with a SCREW 6-32 x 5/16" WITH STAR WASHER. Torque SCREW to 8 – 10 inch-pounds and apply loctite. The cable from the AC RECEPTACLE ASSEMBLY shall be installed completely within the CHASSIS.



Torque SCREW to 8 – 10 inch-pounds. Apply Loctite.

STEP 9

P/N required:

1 each (see Table 2)

Open and remove fuse holder. Install correct fuse value. Install fuse holder back into AC receptacle.

Table 2

AC Voltage	FUSE part number
100 VAC (JA)	24-19-0005 (4A/125V)
120 VAC (US)	24-19-0005 (4A/125V)
240 VAC (AU, UK, EU)	24-19-0006 (2A/250V)

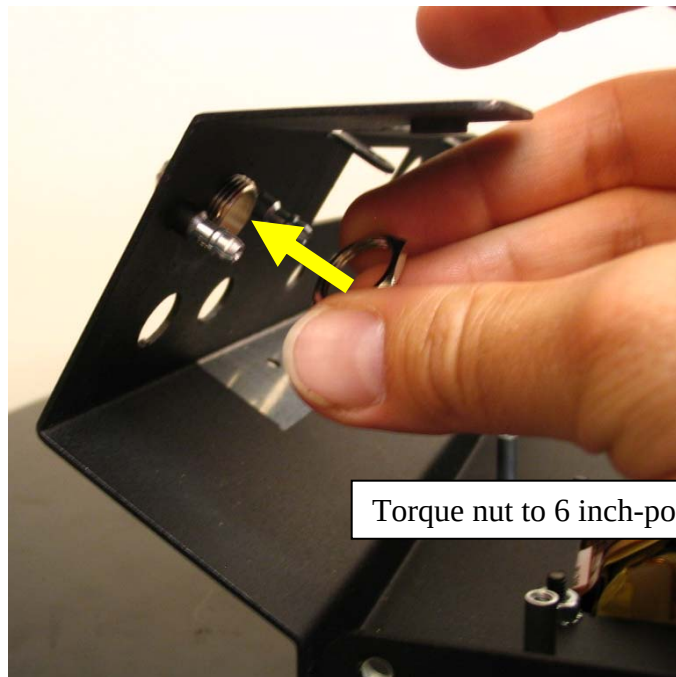


STEP 10

P/N required:

1 each **30-51-0113 JEWEL LENS WITH NUT**

Install Lens from front. Thread lens into nut. Torque nut to 6 inch-pounds.

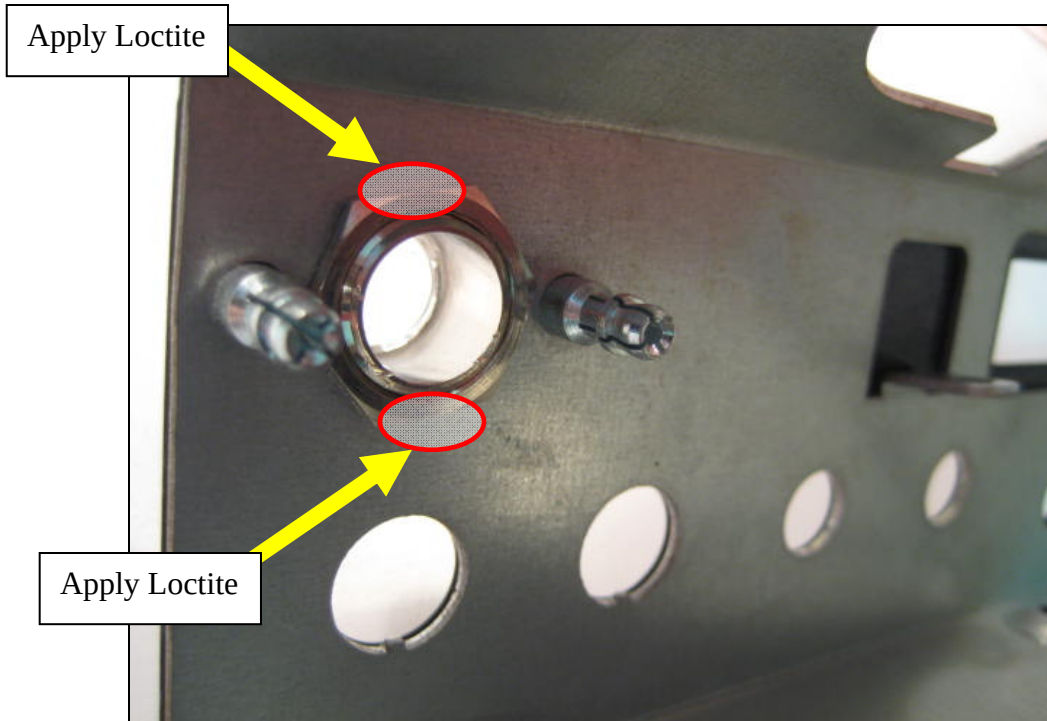


Torque nut to 6 inch-pounds.

Step 10 is continued on next page

STEP 10 CONT'D

After torque has been verified, apply two (2) drops of loctite in the approximate locations:



STEP 11

P/N required:

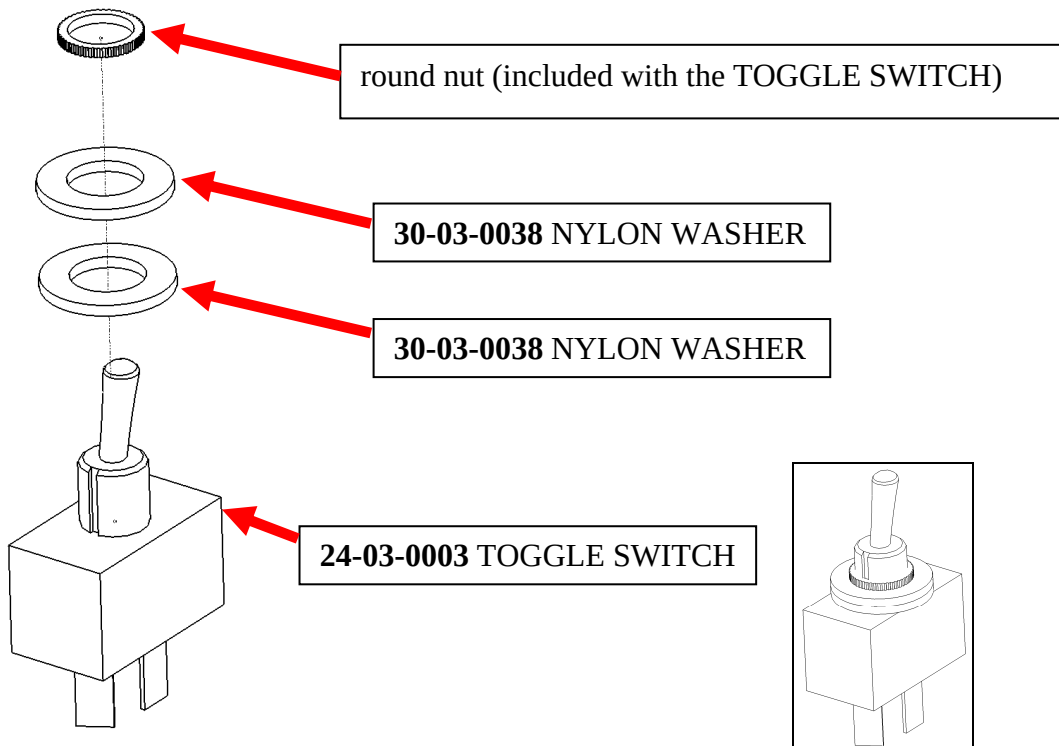
2 each **24-03-0003** TOGGLE SWITCH

4 each **30-03-0038** NYLON WASHER

Remove the hex nut from each of the TOGGLE SWITCHES. Slide two NYLON WASHERS onto the threaded barrel of each TOGGLE SWITCH. Finger-tighten the round nut onto the threaded barrel of each TOGGLE SWITCH to secure the two NYLON WASHERS.

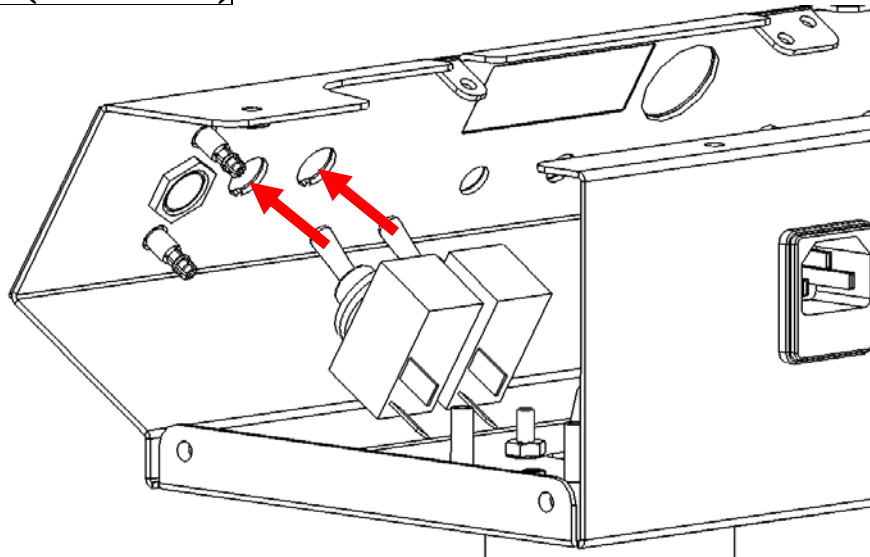
Insert the TOGGLE SWITCH into the CHASSIS hole. Be sure to align the notch in the CHASSIS hole with the keyway in the TOGGLE SWITCH. Secure the TOGGLE SWITCH to the chassis using the hex nut.

Torque the hex nuts to 6 inch-pounds.

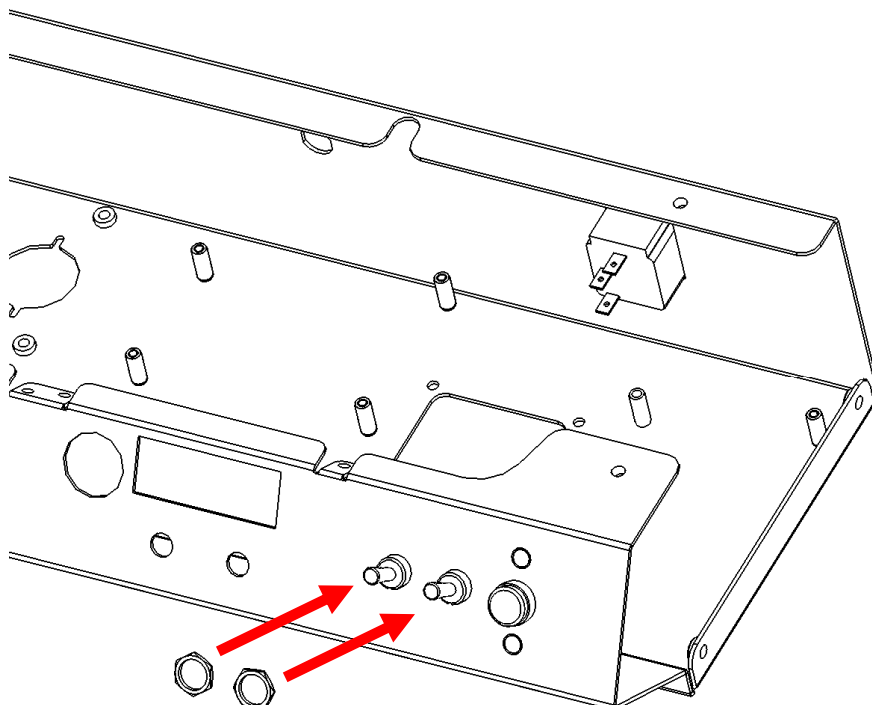


(Step 11 is continued on the next page.)

STEP 11 (continued)



A23-3 shown.

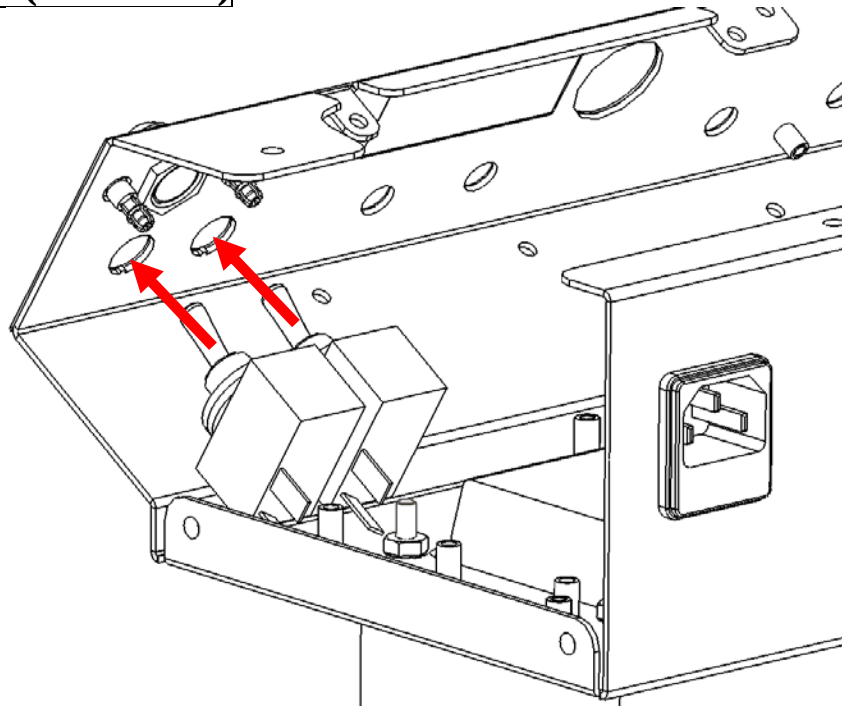


A23-2 shown.

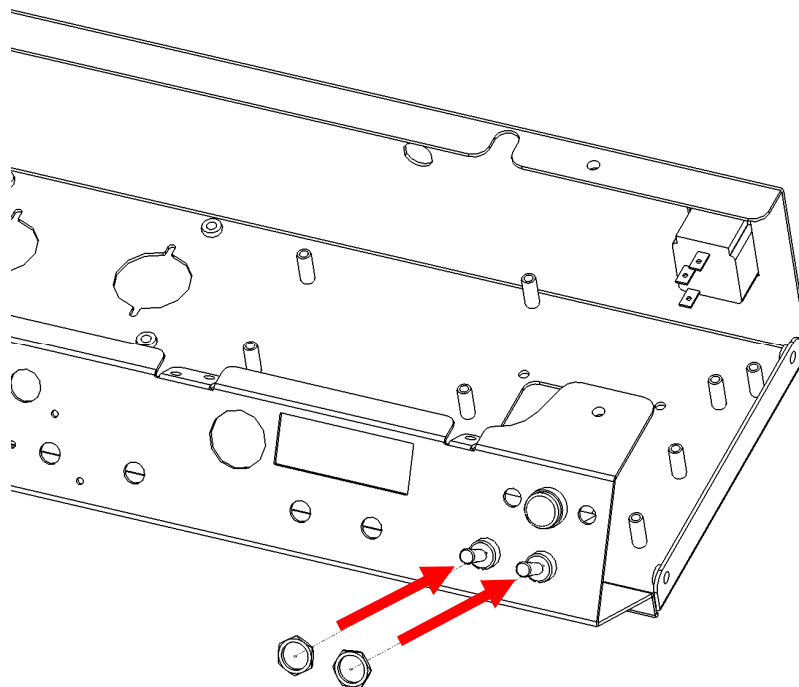
Hex nuts (included with the TOGGLE SWITCH)

(Step 11 is continued on the next page.)

STEP 11 (continued)



A23-2 shown.



A23-2 shown.

Hex nuts (included with the TOGGLE SWITCH)

STEP 12

P/N required:

1 each **50-02-9326** PCBA UI SV MKII



Break the UI LEFT PCBA, JEWEL LIGHT PCBA, and UI RIGHT PCBA apart.

Line 6 recommends using a SHOP AID for installing the PCBA UI to the chassis to confirm the potentiometer shafts are centered and concentric to the chassis holes.

Recommendations for SHOP AID (not requirements):

Qty 3 (minimum)

Material: aluminum or steel.

Outer diameter: 9.65mm

Inner diameter: 9.10mm



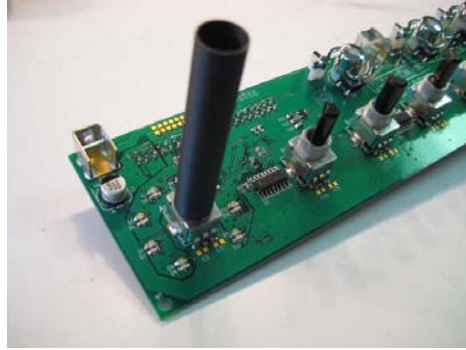
Insert SHOP AID over the indicated potentiometers.



Install SHOP AID over potentiometer, 3 PL

Step 12 is continued on next page

STEP 12 Continued



Insert PCBA UI (with SHOP AIDs) into the CHASSIS as shown.



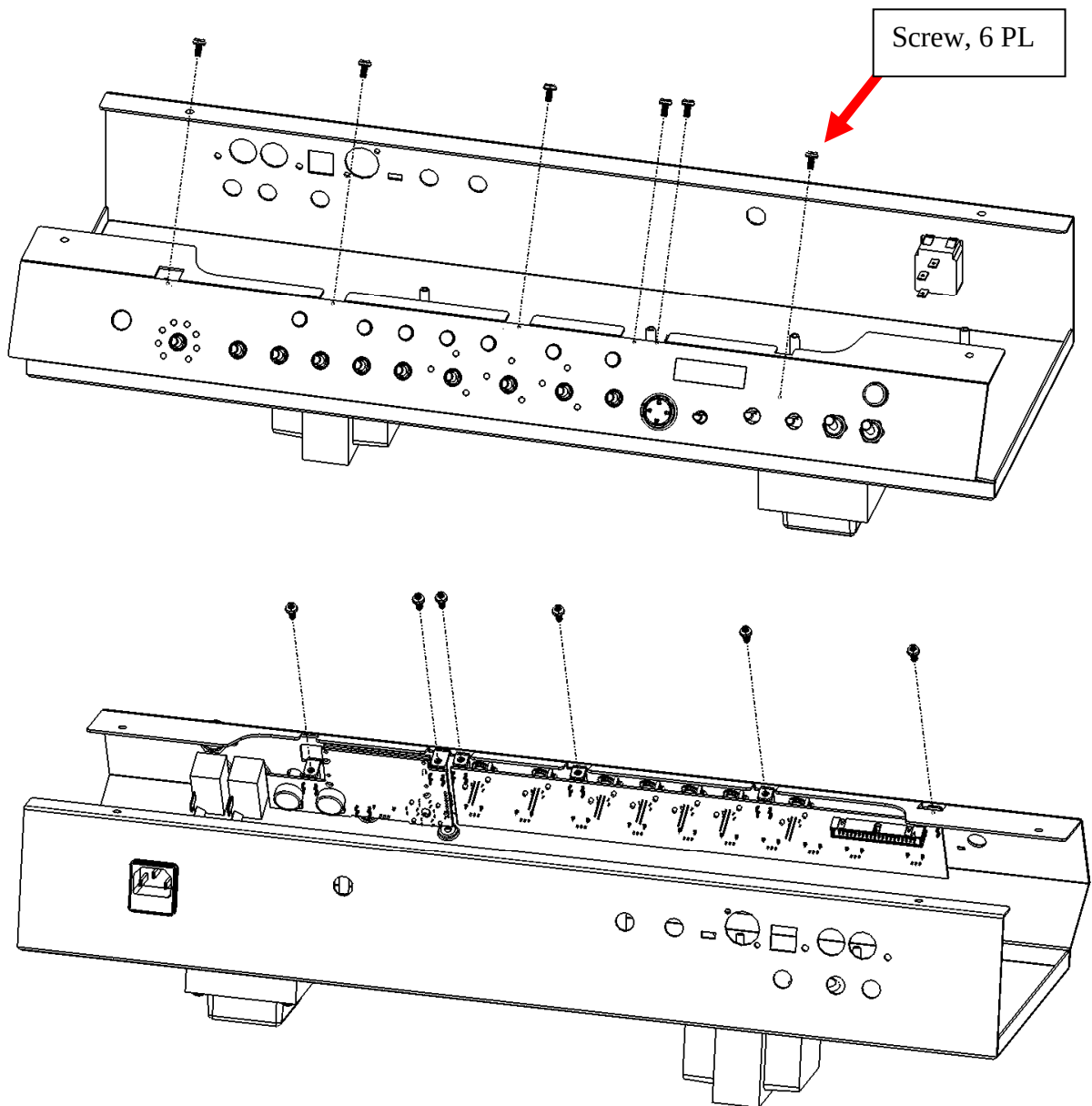
Keep the SHOP AIDs in-place while completing Step 13 and Step 14. Remove after completing Step 14.

STEP 13

P/N required:

6 each **30-00-0043** SCREW 6-32 x 5/16" WITH STAR WASHER

Install SCREWS as shown. Torque each SCREW to 8 – 10 inch-pounds.



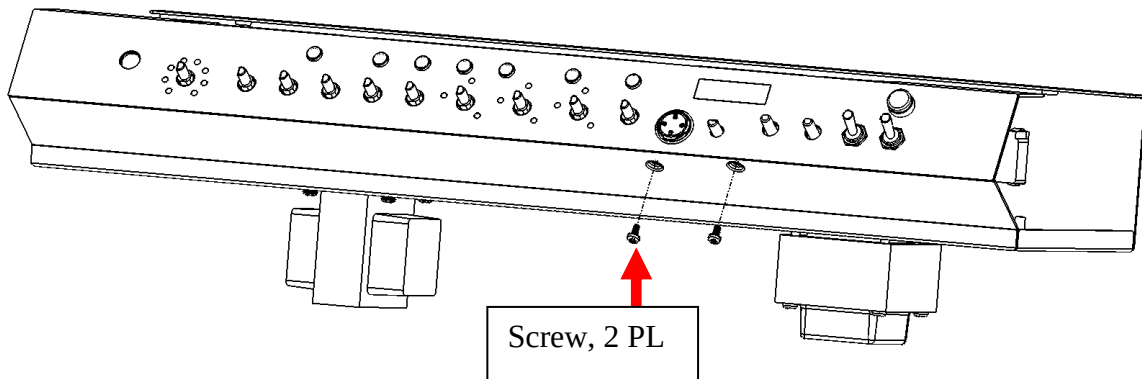
STEP 14

P/N required:

2 each **30-00-0043** SCREW 6-32 x 5/16" WITH STAR WASHER

10 each **NUT** and **WASHER** (included with POTENTIOMETER)

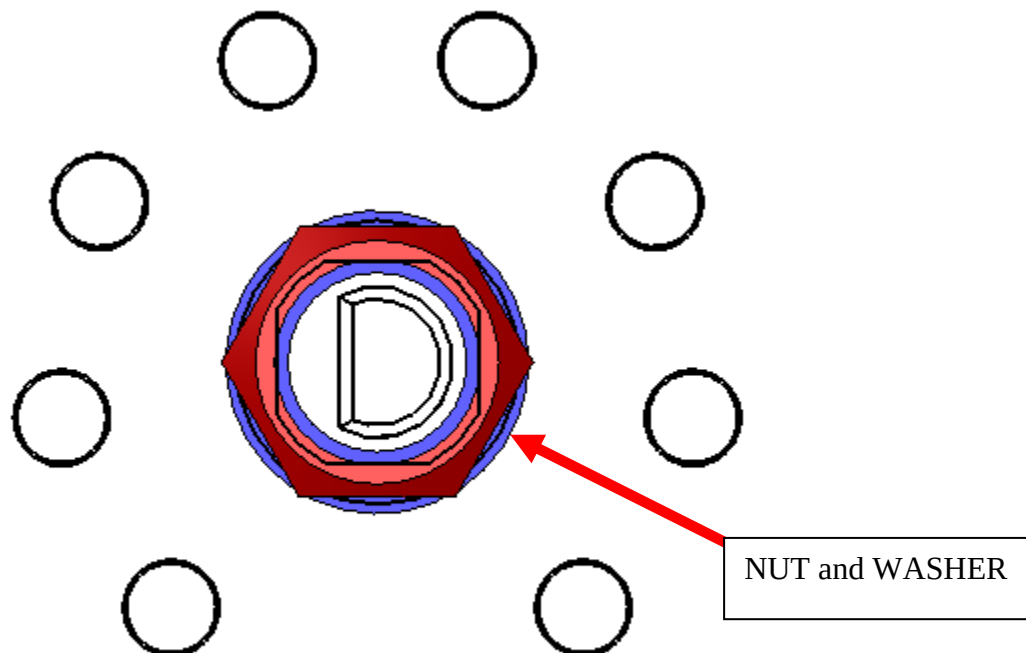
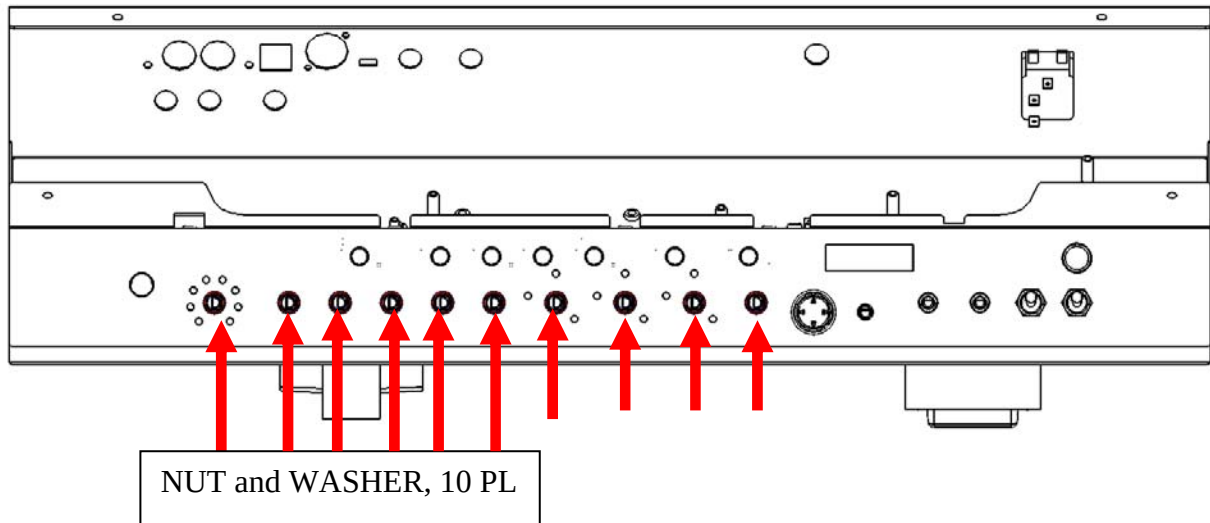
Install SCREWS as shown. Torque each SCREW to 8 – 10 inch-pounds.



(Step 14 is continued on the next page.)

STEP 14 Continued

Insert one NUT and WASHER over the indicated potentiometer shafts (10 PL). Torque each NUT to 4 – 6 inch-pounds.



Remove the SHOP AIDs from Step 12.

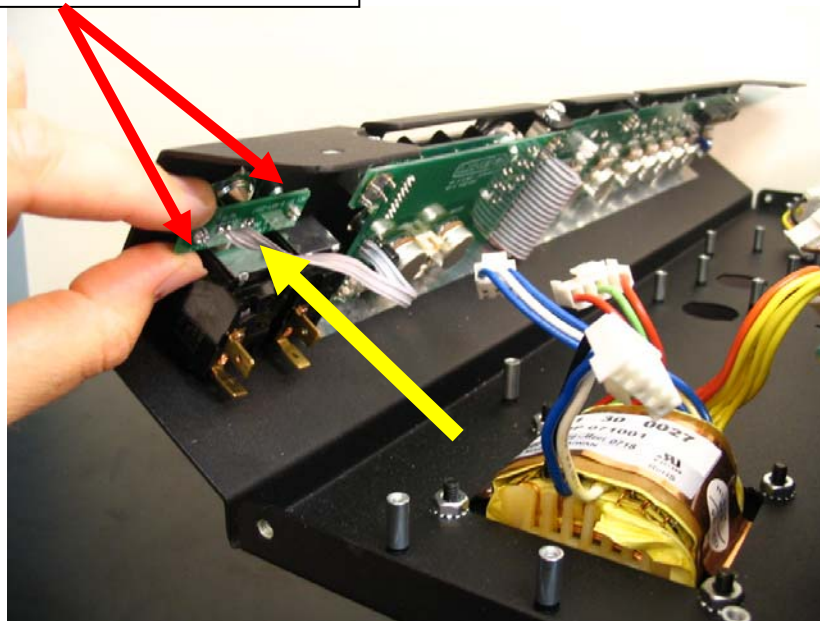
STEP 15

P/N required:

1 each JEWEL LIGHT PCBA (breakaway from UI PCBA)



Press firmly on the JEWEL LIGHT PCBA until it snaps completely onto the standoffs in the CHASSIS.



STEP 16

P/N required:

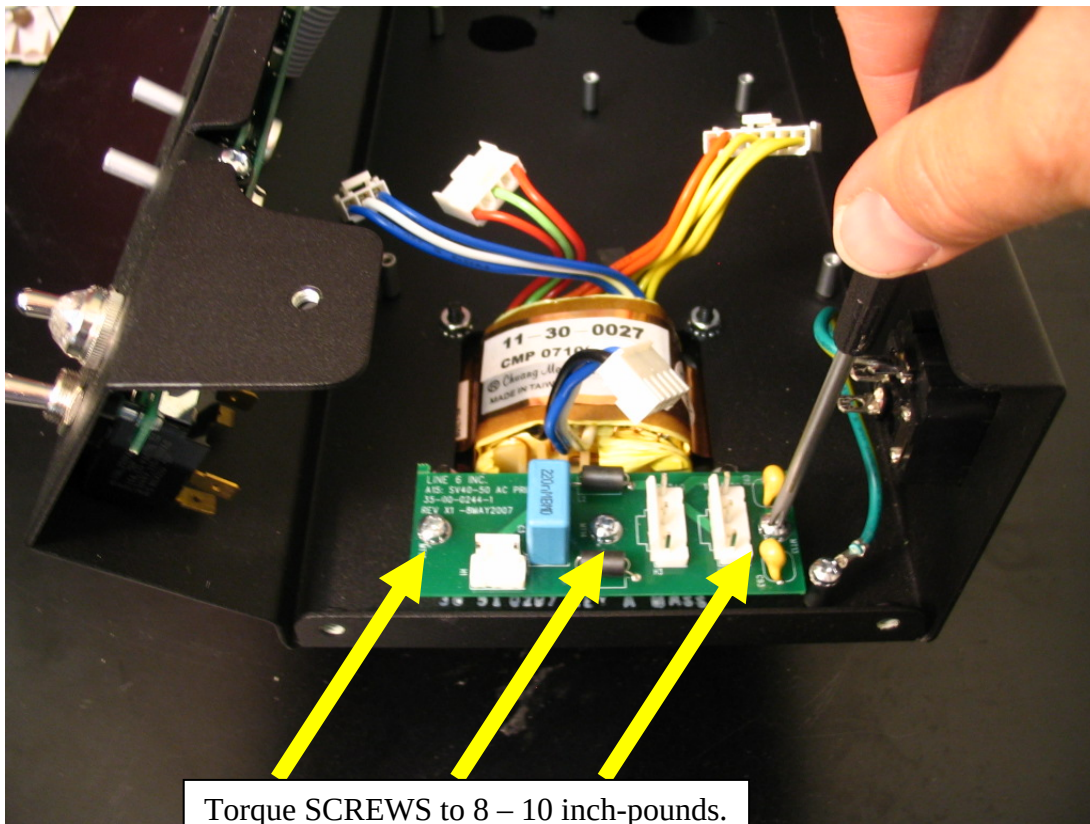
1 each **50-02-0244** POWER SUPPLY PCBA

1 each **50-02-0244-1** AC PCBA

3 each **30-00-0043** SCREW 6-32 x 5/16" WITH STAR WASHER

Break the AC PCBA from the POWER SUPPLY PCBA.

Secure the AC PCBA to the CHASSIS with three SCREWS in the orientation shown.
Torque the SCREWS to 8 – 10 inch-pounds. Apply loctite to each screw.



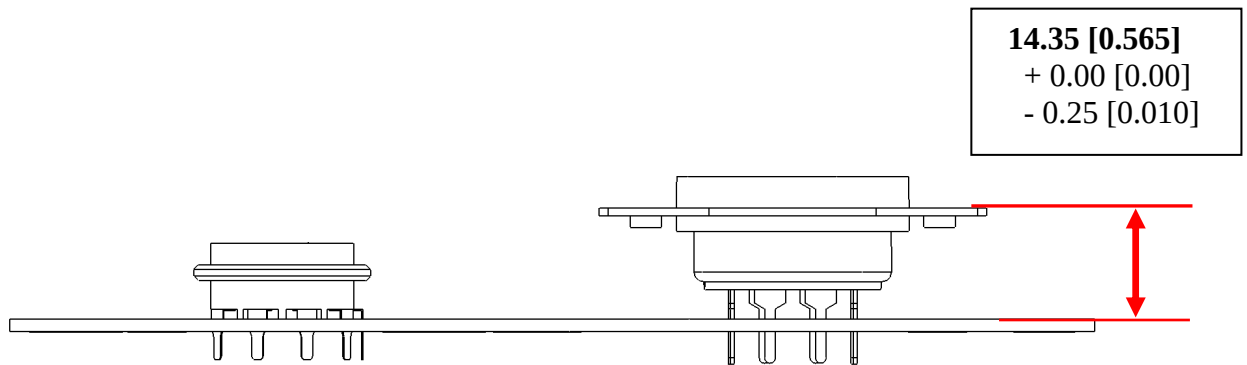
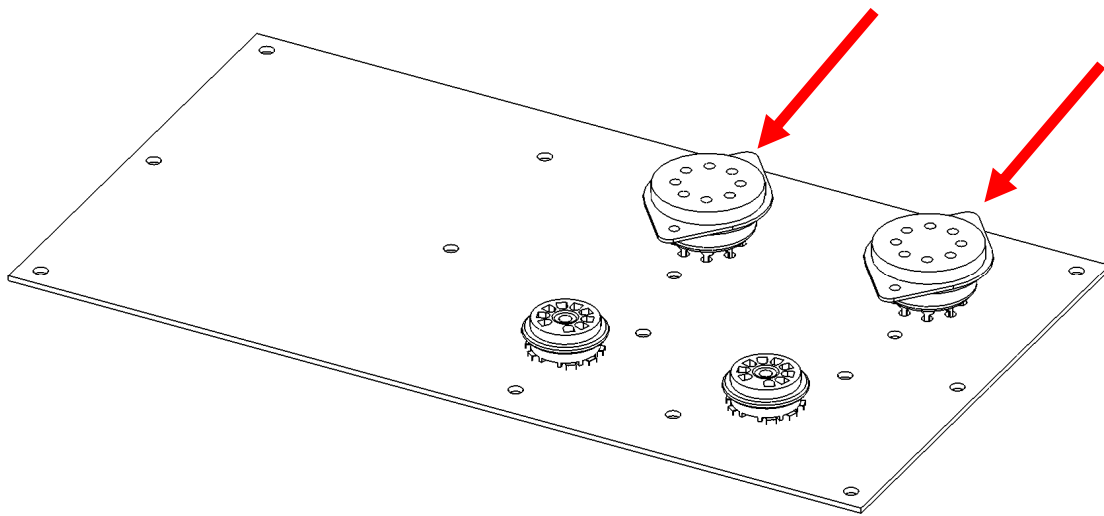
STEP 17

P/N required:

1 each **50-02-0244** POWER SUPPLY PCBA

Verify height of tube sockets, 2 PL.

Height must be verified before installing the PCBA to the chassis. Do not proceed to Step 22 unless socket height has been verified.



Measure from top of socket flange to nearest surface of PCBA

STEP 18

P/N required:

1 each **50-02-0244** POWER SUPPLY PCBA

12 each **30-00-0043** SCREW 6-32 x 5/16" WITH STAR WASHER

Note: The cables from the POWER TRANSFORMER and the OUTPUT TRANSFORMER shall be pulled out of the way before installing the POWER SUPPLY PCBA.

Secure the POWER SUPPLY PCBA to the CHASSIS with 12 SCREWS. Torque the SCREWS to 8 – 10 inch-pounds. Apply loctite to each screw.



STEP 19

P/N required:

1 each **21-48-0004** FUSEHOLDER

1 each **24-19-0005** FUSE .5A 250V SLO-BLO

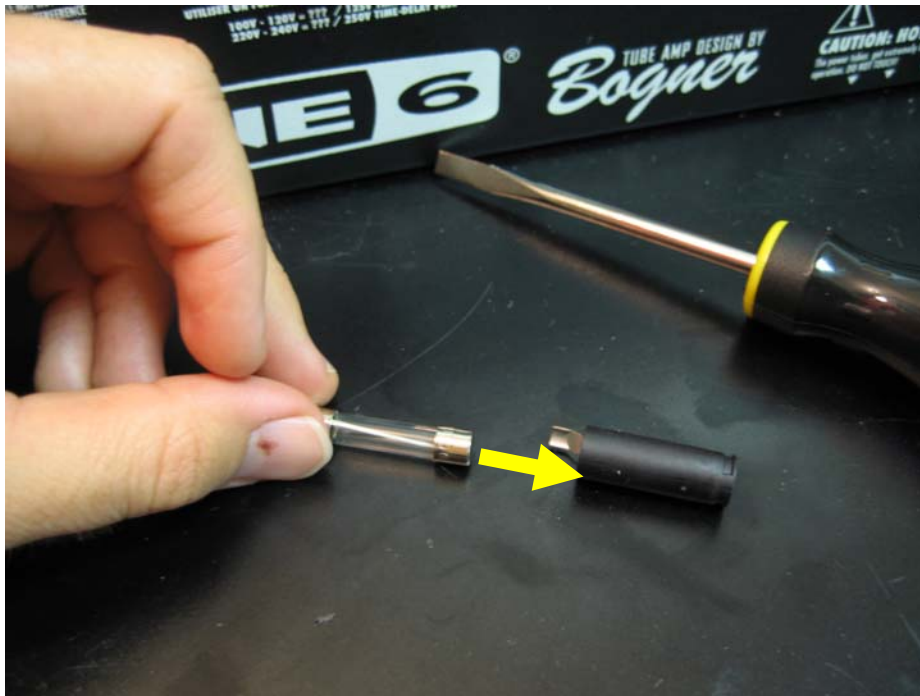
Insert the FUSEHOLDER into the hole in the CHASSIS as shown. Secure the FUSEHOLDER with the included nut. Torque the nut to 4 – 6 inch-pounds.

Use a flathead screwdriver to remove the cap from the FUSEHOLDER by turning it ¼ turn counterclockwise. Install the FUSE .5A 250V SLO-BLO into the cap and reinstall it into the FUSEHOLDER.



(Step19 is continued on the next page.)

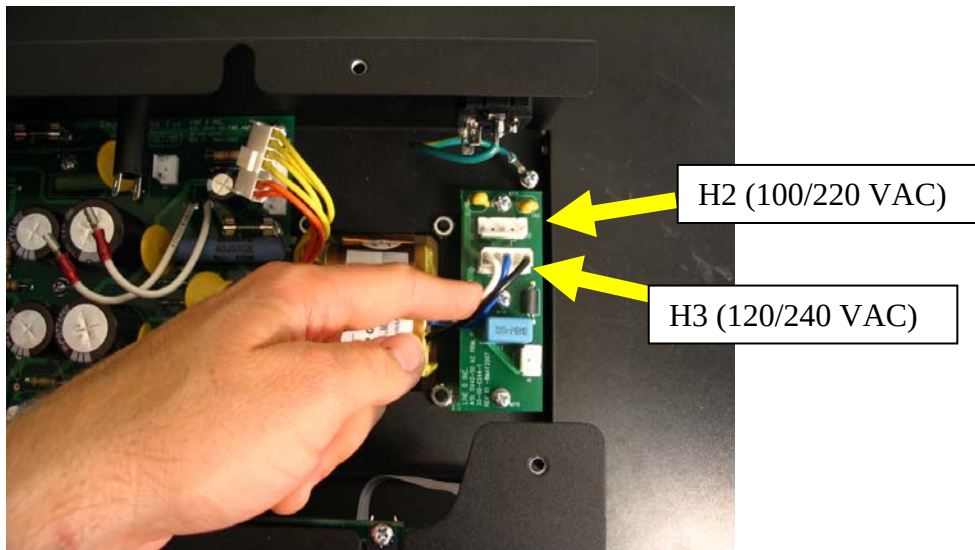
STEP 19 (continued)



STEP 20

Connect primary wires (blue, black and white) to the appropriate header on the A/C PCBA as shown. See table below for appropriate header connection.

A/C Voltage	Header on PCBA AC	Voltage Label P/N
100 VAC (JA)	H2	40-25-0141
120 VAC (US)	H3	(no label)
220 VAC (EU)	H2	40-25-0172
240 VAC (AU, UK)	H3	40-25-0143



Apply the appropriate VOLTAGE LABEL to indicated area on the Chassis Rear. The appropriate VOLTAGE LABEL can be determined from the table above.



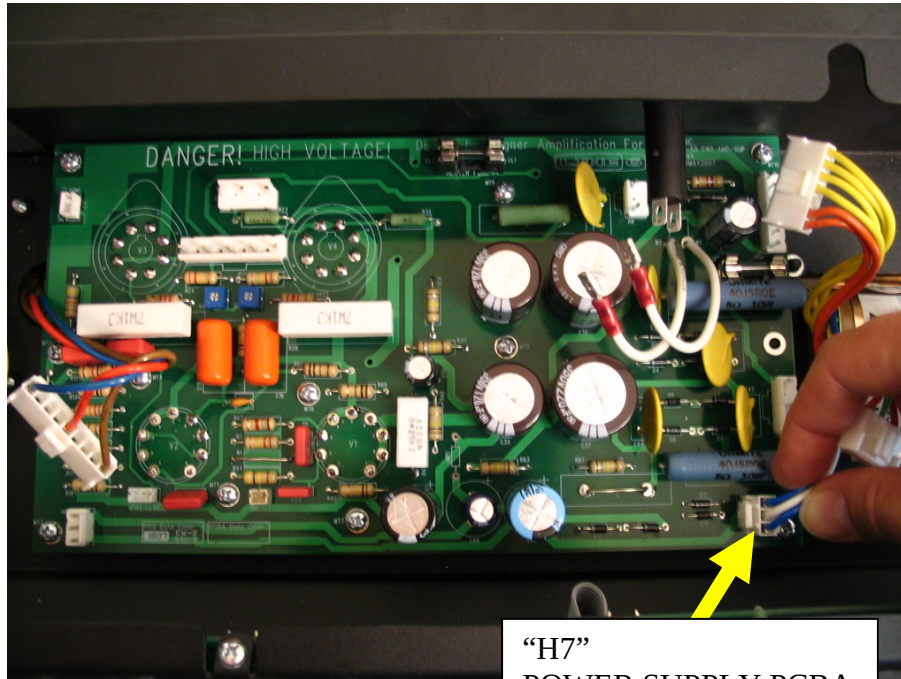
Apply LABEL on 100V, 220V and 240V units, per Table above

Sticker shall cover the "120V ~" font

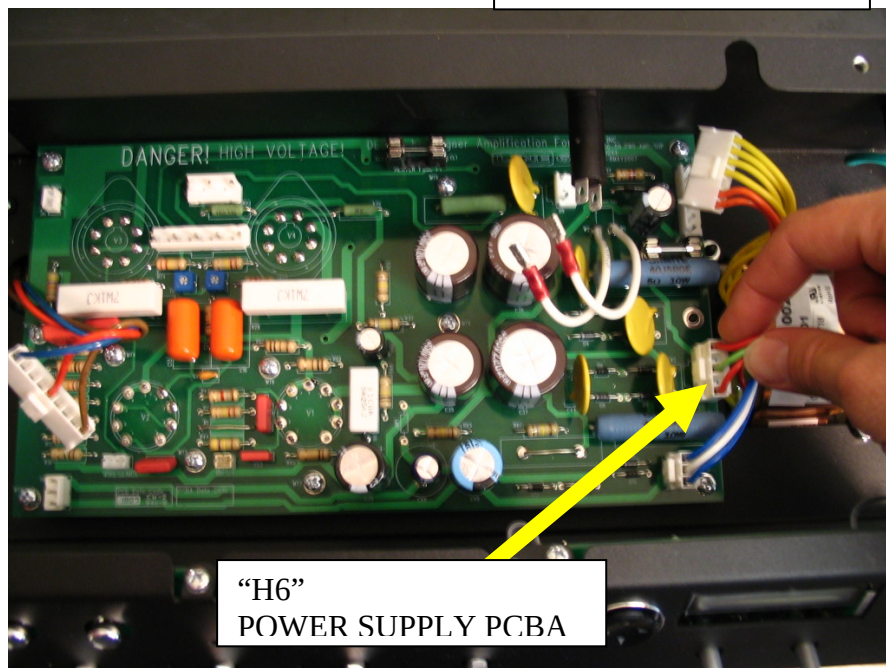
APPLY LABEL HERE
(over the 120V ~)

STEP 21

Connect the cables from the POWER TRANSFORMER and the OUTPUT TRANSFORMER to the AC PCBA and the POWER SUPPLY PCBA as shown.



"H7"
POWER SUPPLY PCBA

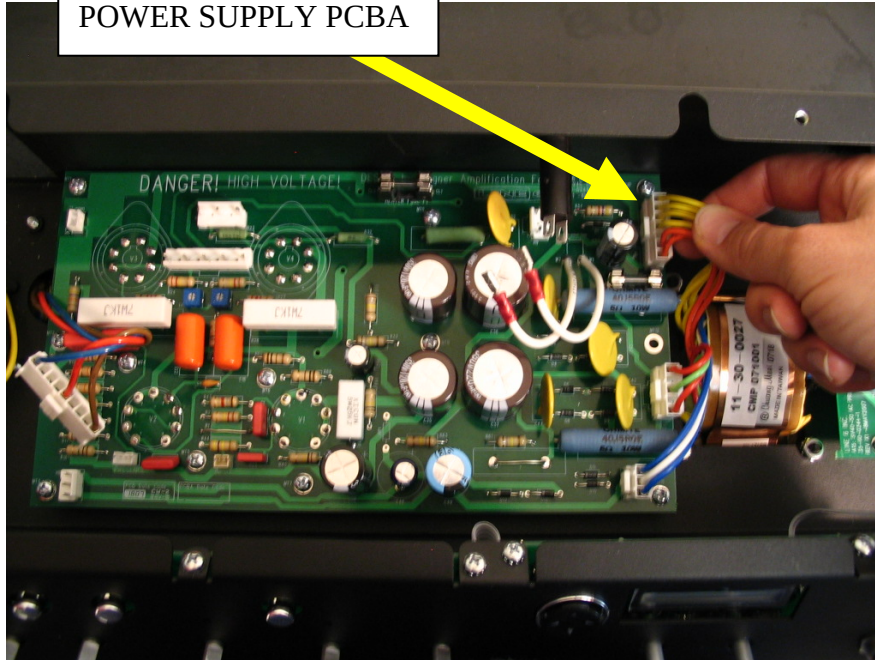


"H6"
POWER SUPPLY PCBA

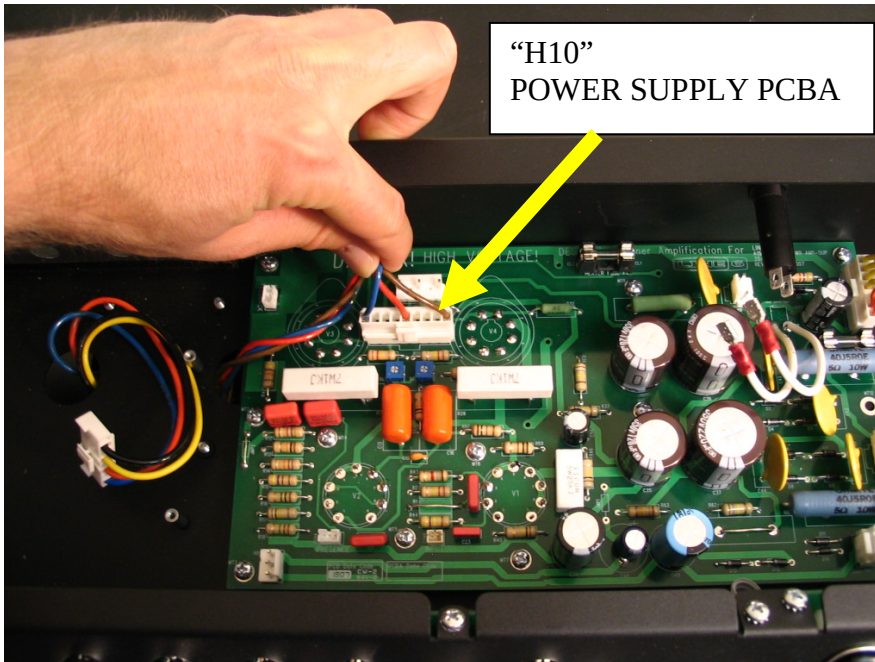
(Step 21 is continued on the next page.)

STEP 21 (continued)

“H5”
POWER SUPPLY PCBA



“H10”
POWER SUPPLY PCBA



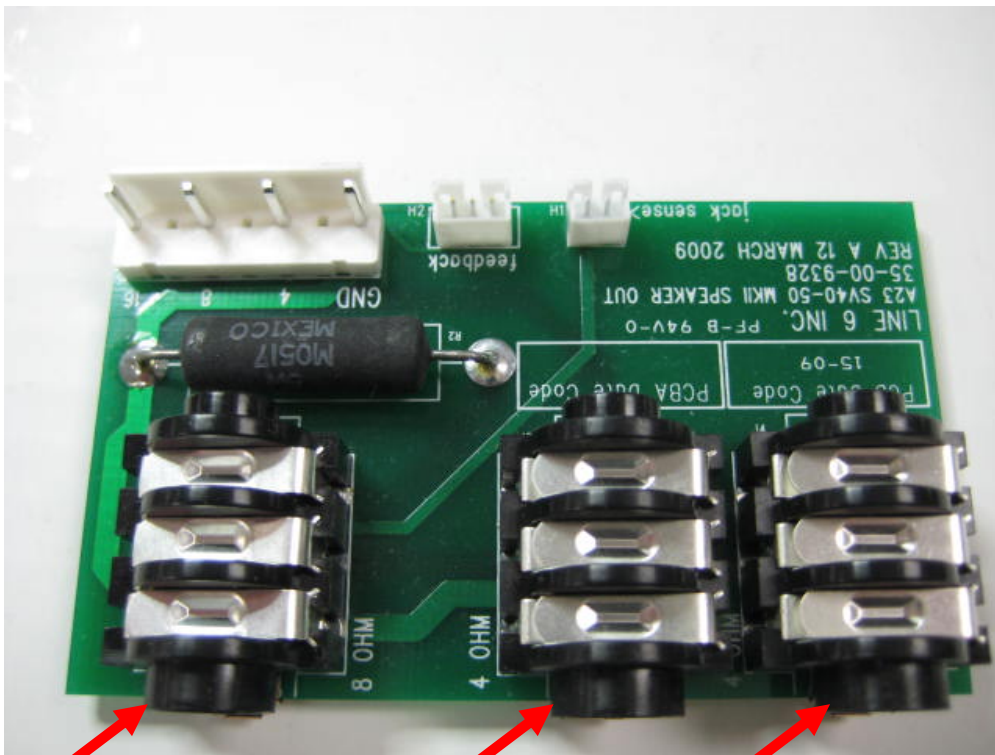
STEP 22

P/N required:

1 each **50-02-9328** SPEAKER OUT PCBA

3 each **30-15-0004** JACK SPACER

Insert one SPACER over each jack as shown.

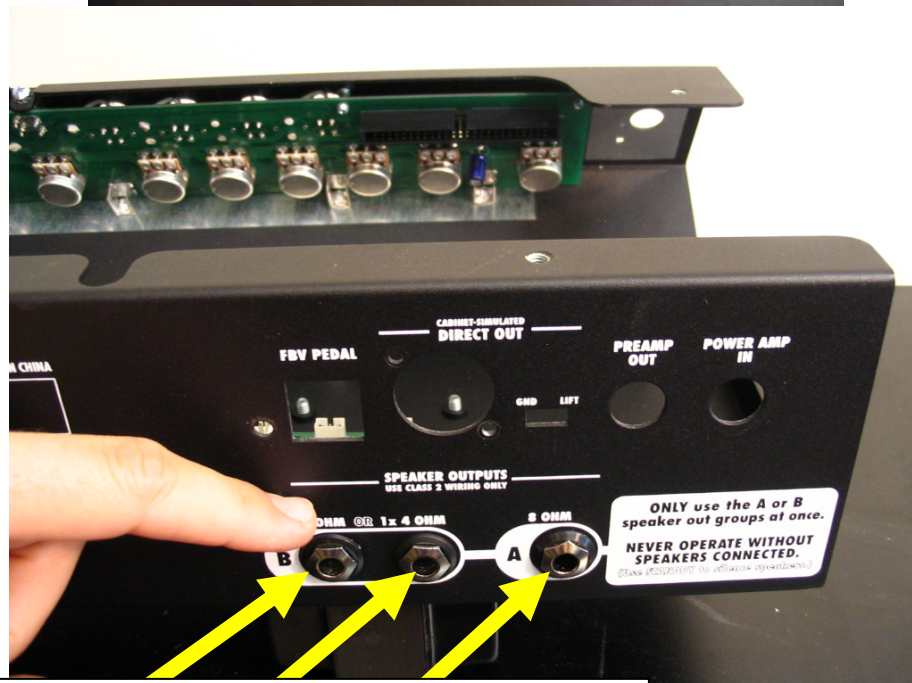
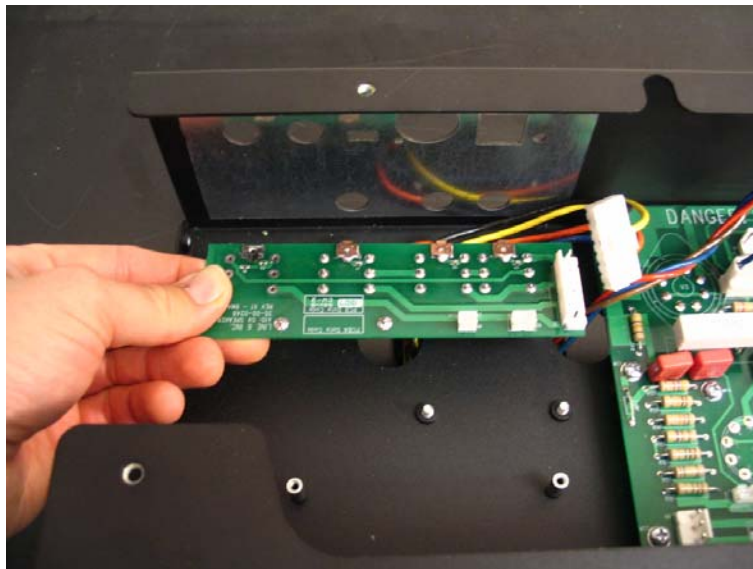


STEP 23

P/N required:

3 each chrome nut and shoulder washer (included with ¼" jack)

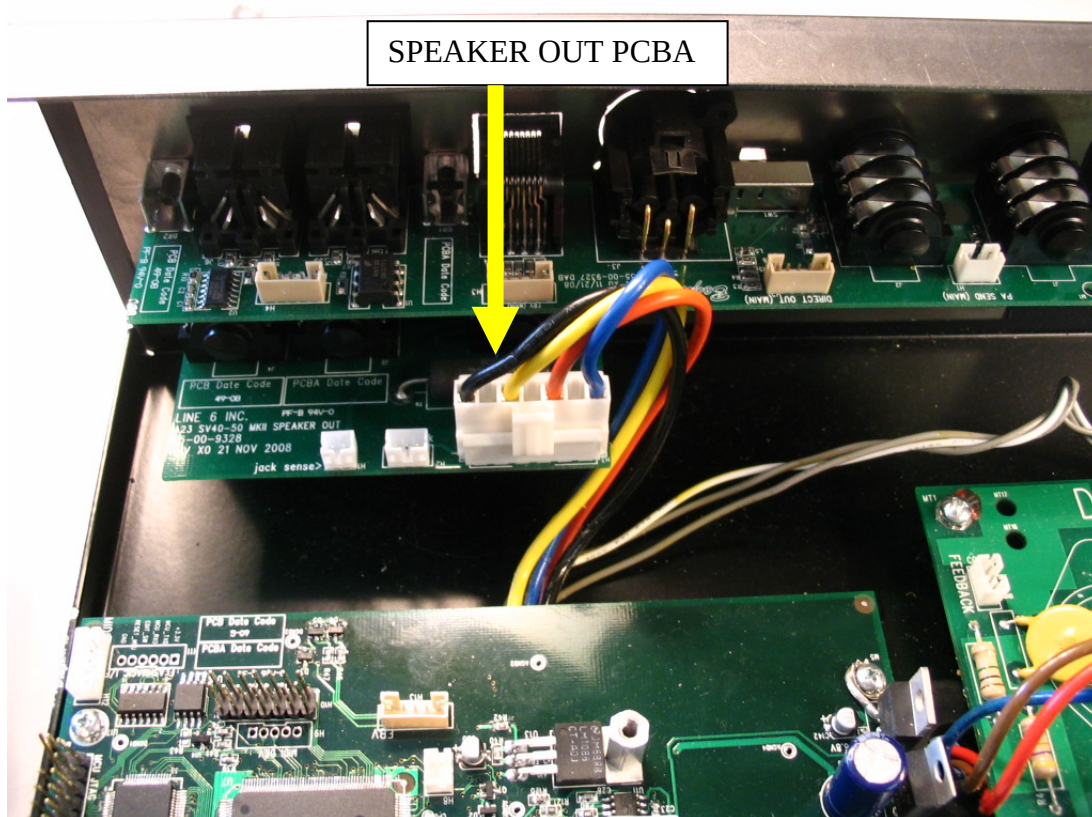
Install the SPEAKER OUT PCBA as shown. Torque the ¼" jack nuts to 5 - 6 inch-pounds.



Torque the ¼" jack nuts to 5 - 6 inch-pounds.

STEP 24

Connect the cable from the OUTPUT TRANSFORMER to the header on the SPEAKER OUTPUT PCBA as shown.



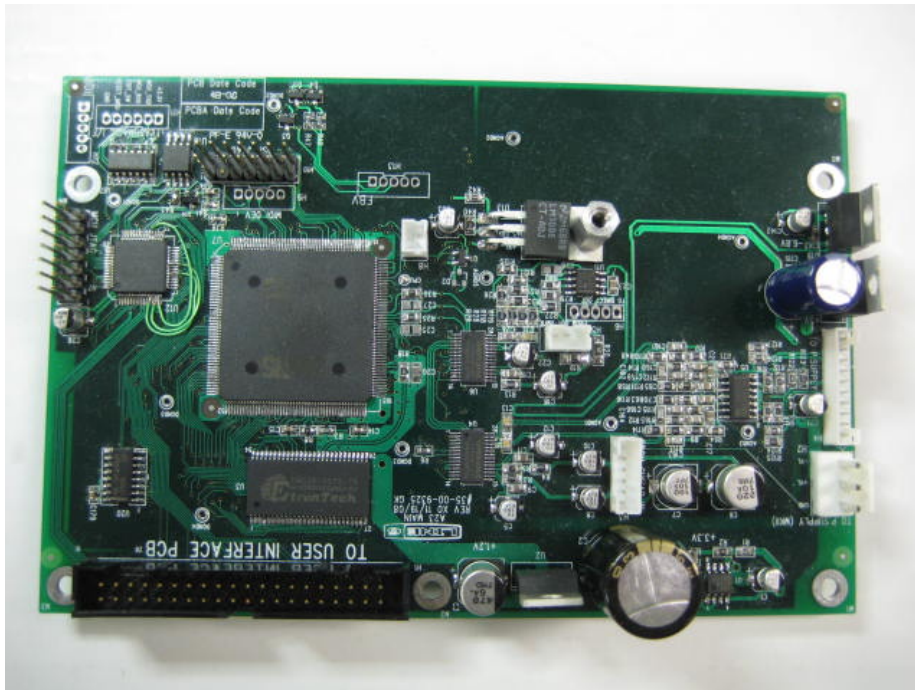
STEP 25

P/N required:

1 each **50-02-9325** PCBA MAIN SV MKII

5 each **30-00-0150** SCREW 4-40 x 5/16" WITH STAR WASHER

Secure the MAIN PCBA to the CHASSIS with 5 SCREWS. Torque the SCREWS to 8 – 10 inch-pounds. Apply loctite to each screw.



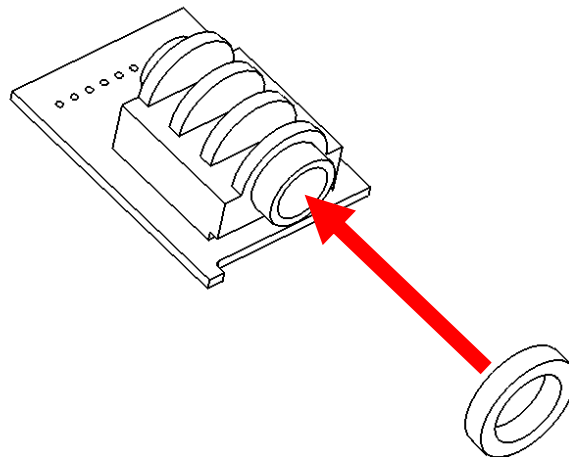
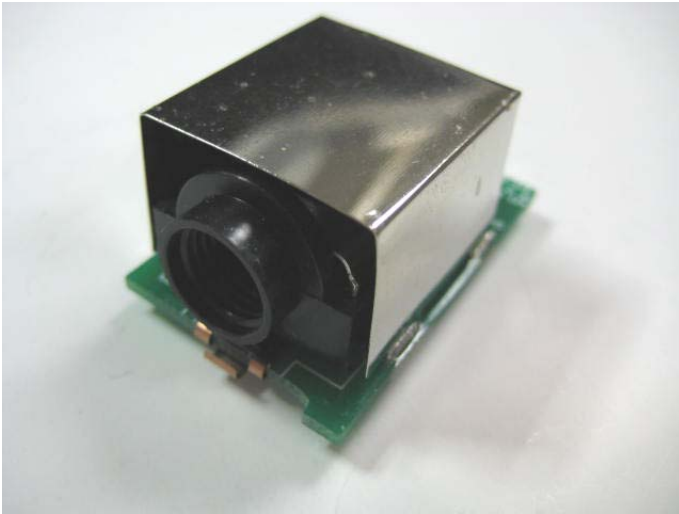
STEP 26

P/N required:

1 each **50-02-9330** PCBA GUITAR INPUT SV MKII

1 each **30-15-0004** JACK SPACER

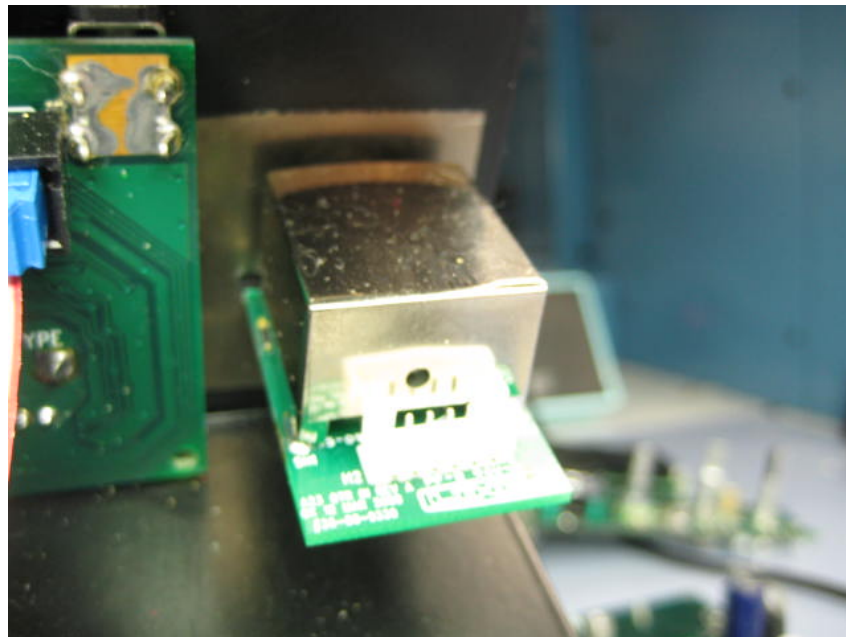
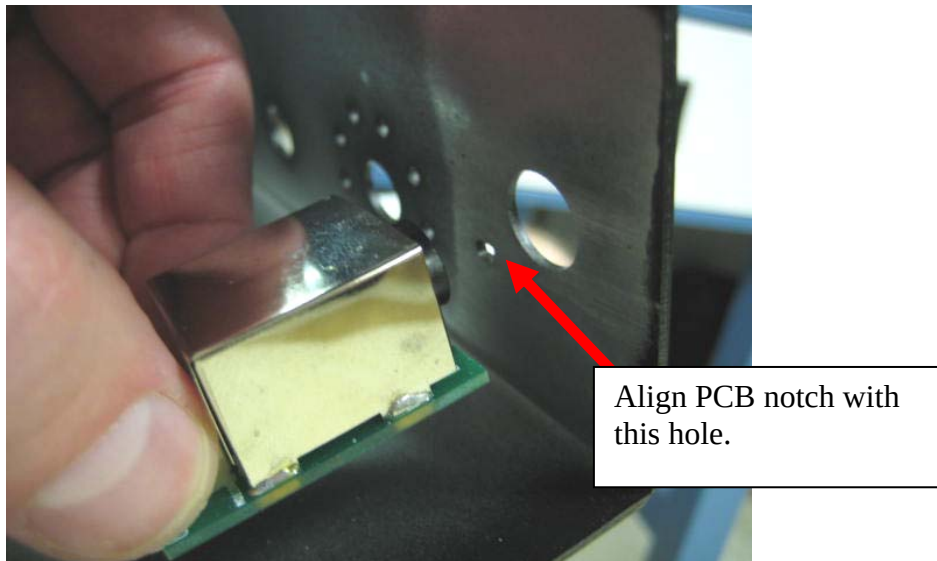
Insert one SPACER over the jack as shown.



(step 26 is cont'd on next page)

STEP 26 Continued

Install the GUITAR-IN PCBA into the CHASSIS as shown. Be sure to align the notch on the PCBA with the small hole in the CHASSIS.



Secure the PCBA to the chassis using the chrome nut and shoulder washer (included with 1/4" jack). Torque the 1/4" jack nut to 5 - 6 inch-pounds.

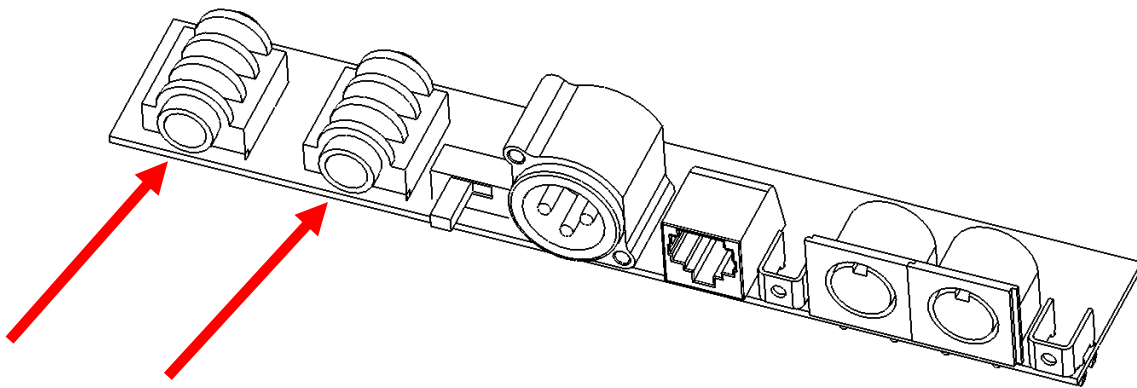
STEP 27

P/N required:

1 each **50-02-9327** PCBA JACK SV MKII

2 each **30-15-0004** JACK SPACER

Insert one SPACER over each jack.

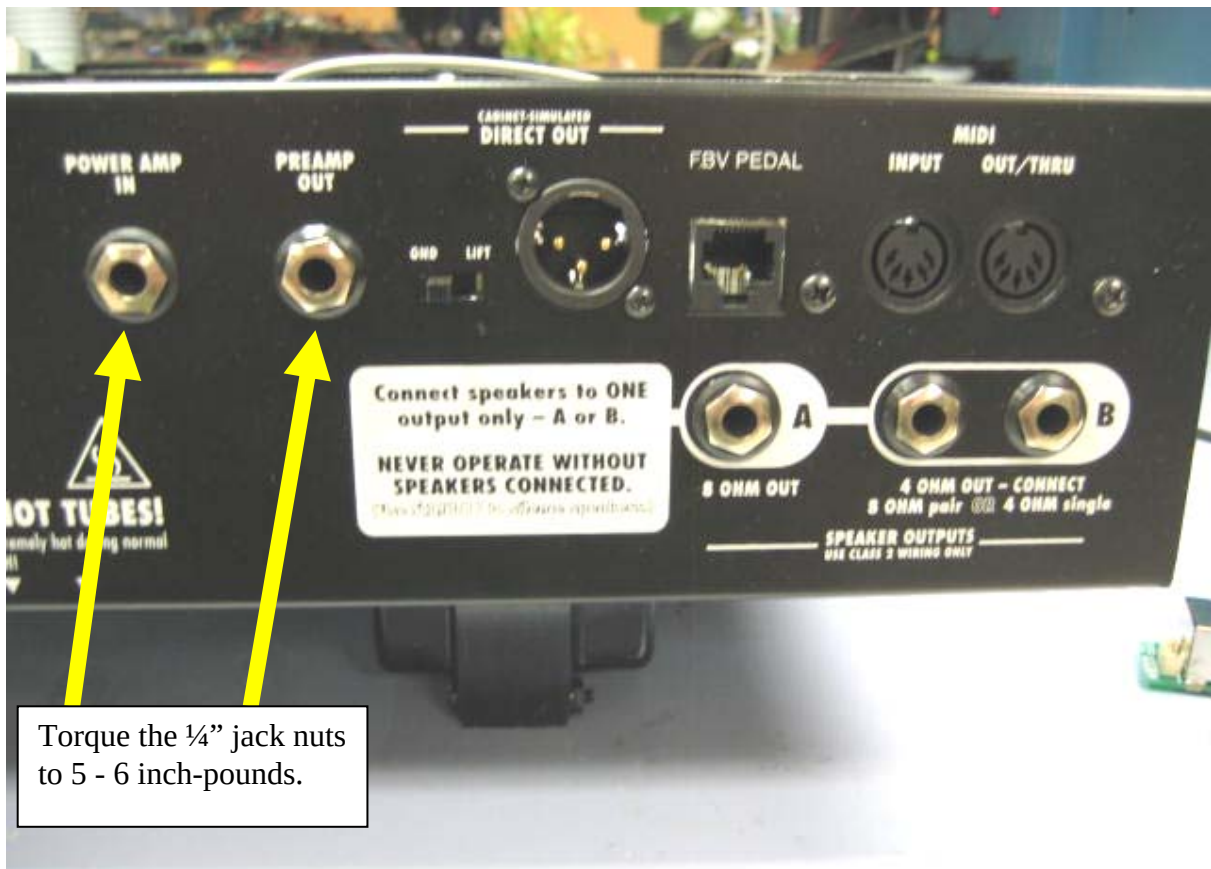


STEP 28

P/N required:

2 each chrome nut and shoulder washer (included with ¼" jack)

Install the REAR PANEL PCBA into the CHASSIS as shown. Torque the ¼" jack nuts to 5 - 6 inch-pounds.



STEP 29

P/N required:

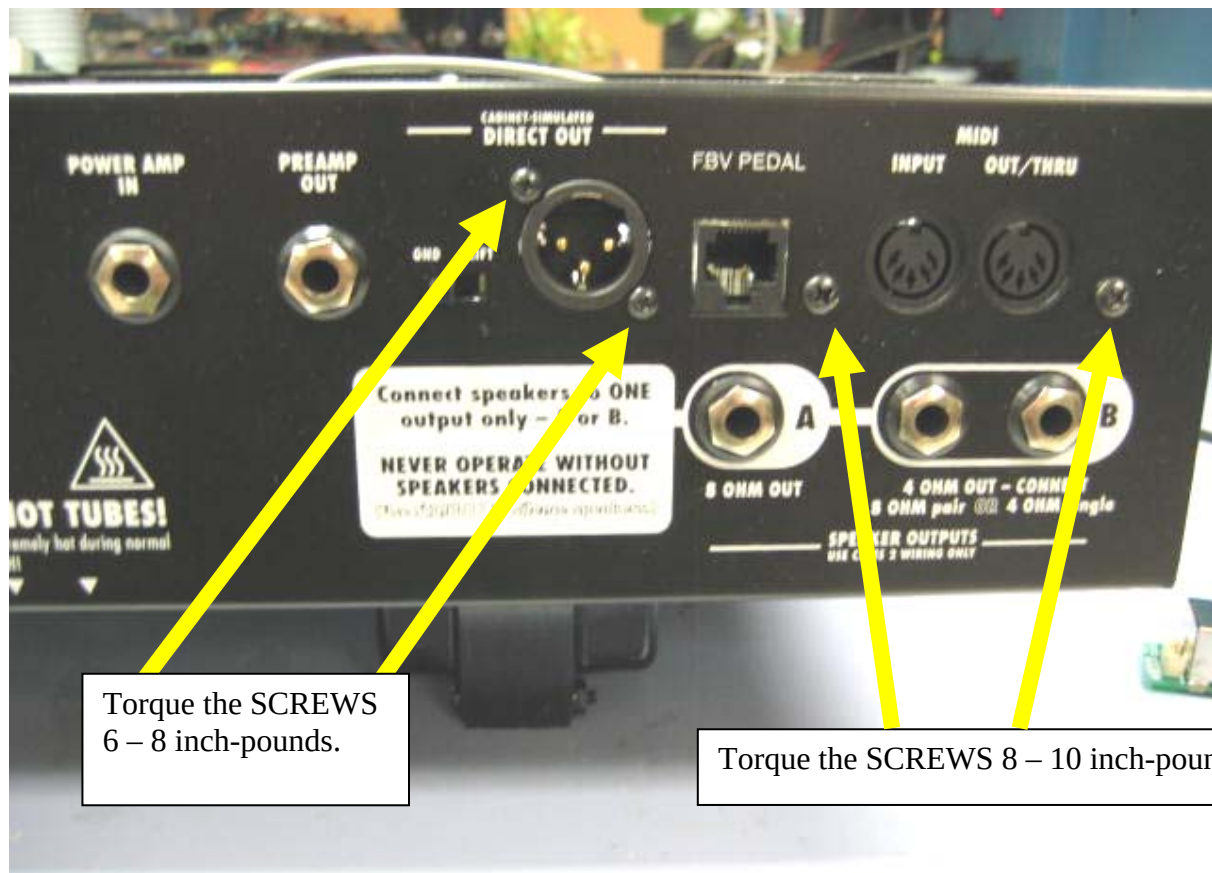
2 each **30-00-0042** SCREW #4 x 3/8"

2 each **30-00-0375** SCREW 6-32 x 3/8"

Install the SCREWS as shown.

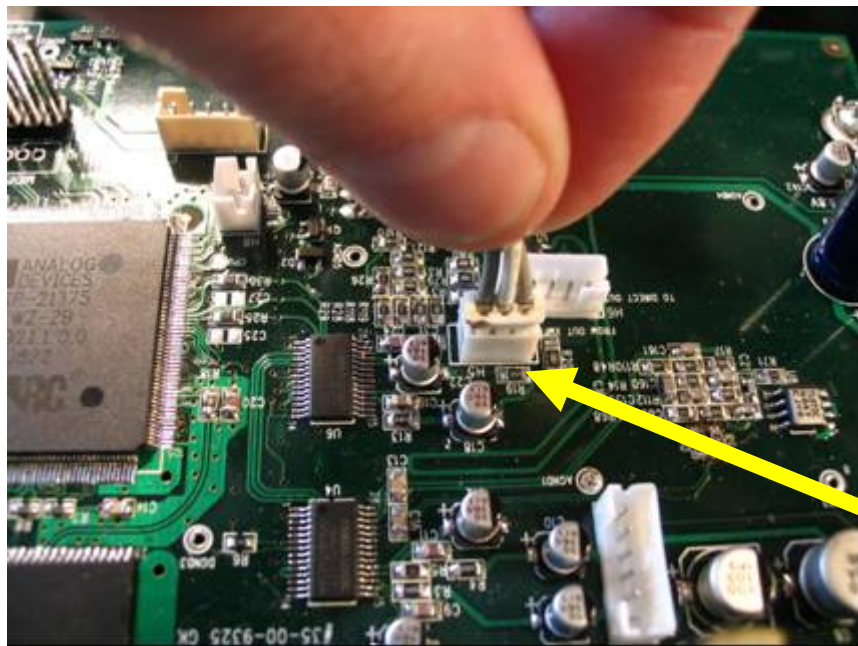
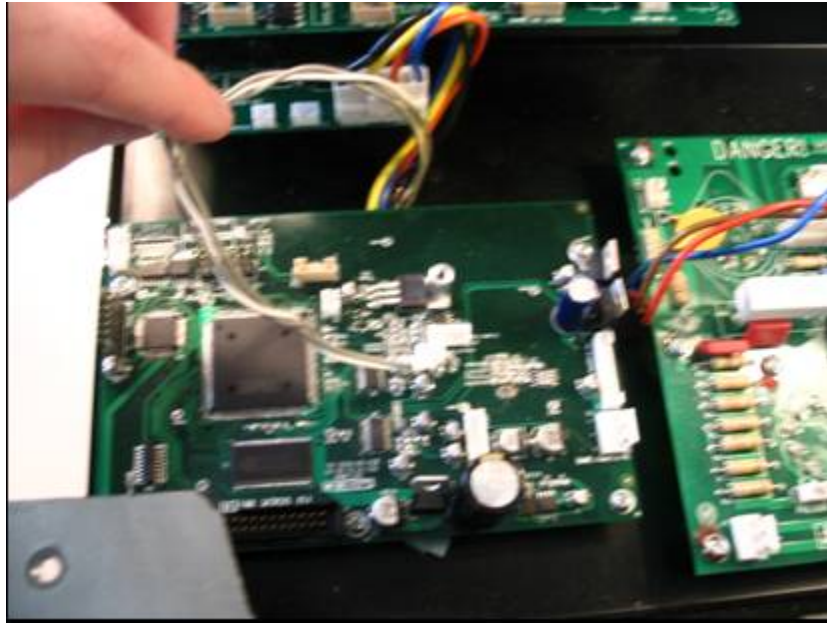
Torque the SCREWS #4 x 3/8" 6 – 8 inch-pounds.

Torque the SCREWS 6-32 x 3/8" 8 – 10 inch-pounds.



STEP 30

Connect the 3-pin connector from the Output Transformer to the Header H3 on the PCBA MAIN.



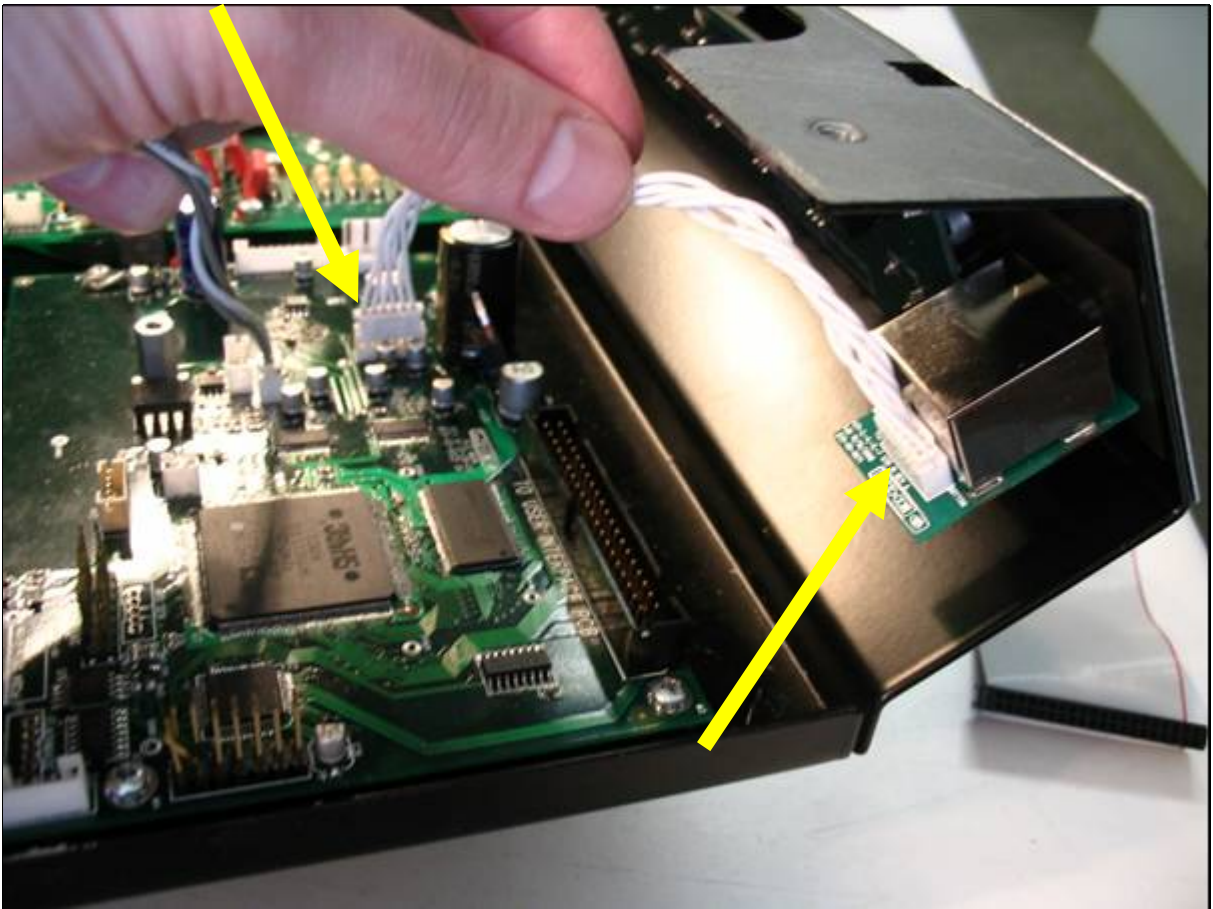
STEP 31

P/N required:

1 each **21-34-0111 CABLE ASSY 6-COND (Guitar Input)**

Connect the CABLE ASSY as shown.

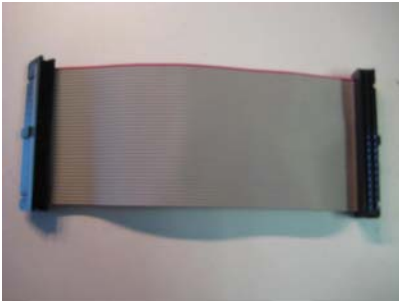
Twist prior to installation.



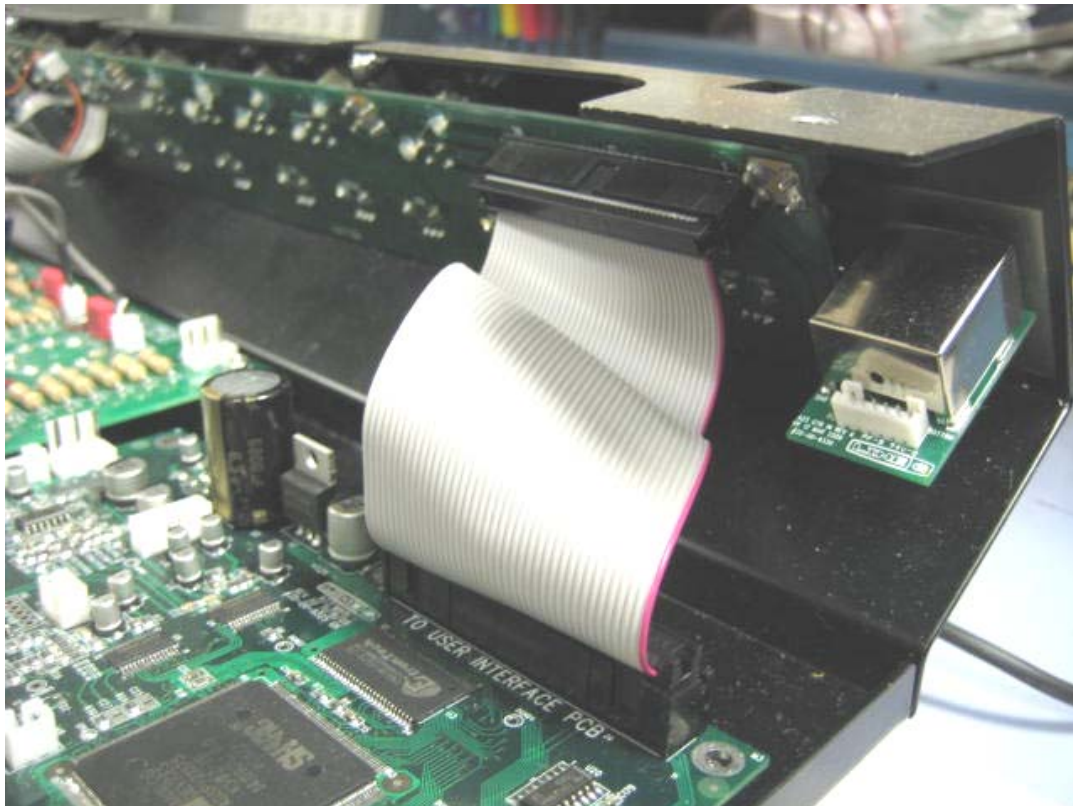
STEP 32

P/N required:

1 each **21-34-0090-1** RIBBON CABLE 40-PIN



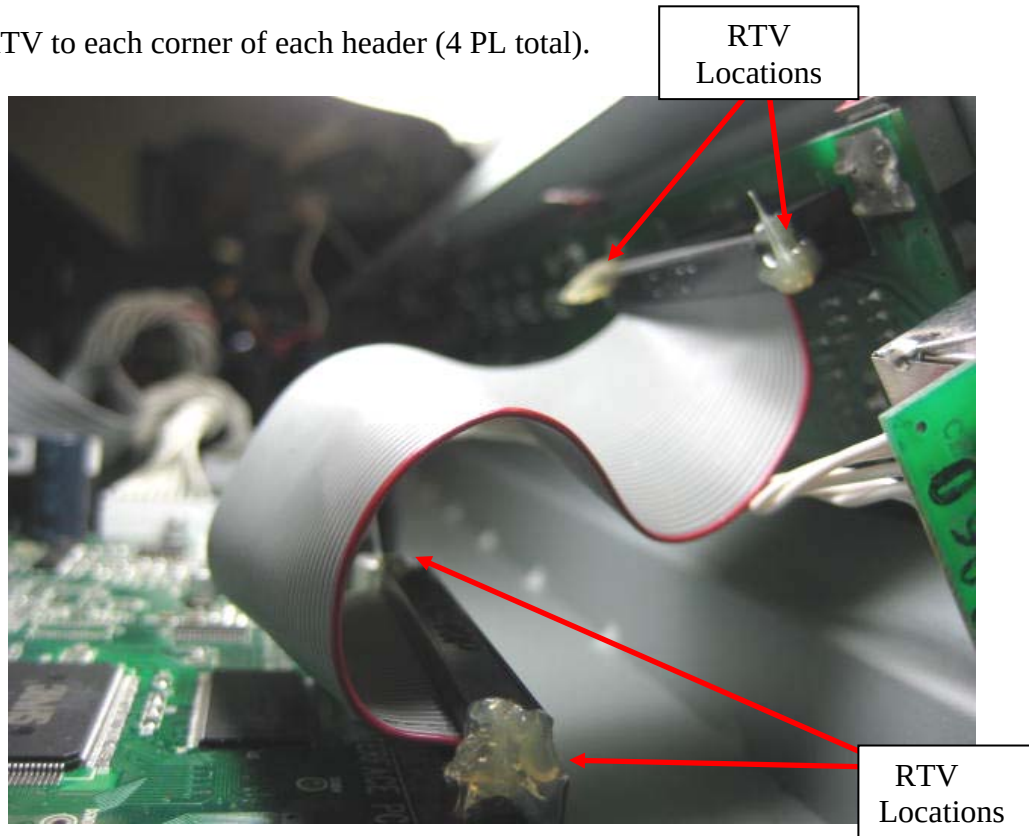
Connect the CABLE ASSY as shown. Do not fold cable. **NOTE – PUSH FIRMLY AND CONFIRM HEADERS ARE FULLY SEATED AND SECURE BEFORE APPLYING RTV.**



(step 32 is cont'd on next page)

STEP 32 Continued

Add RTV to each corner of each header (4 PL total).

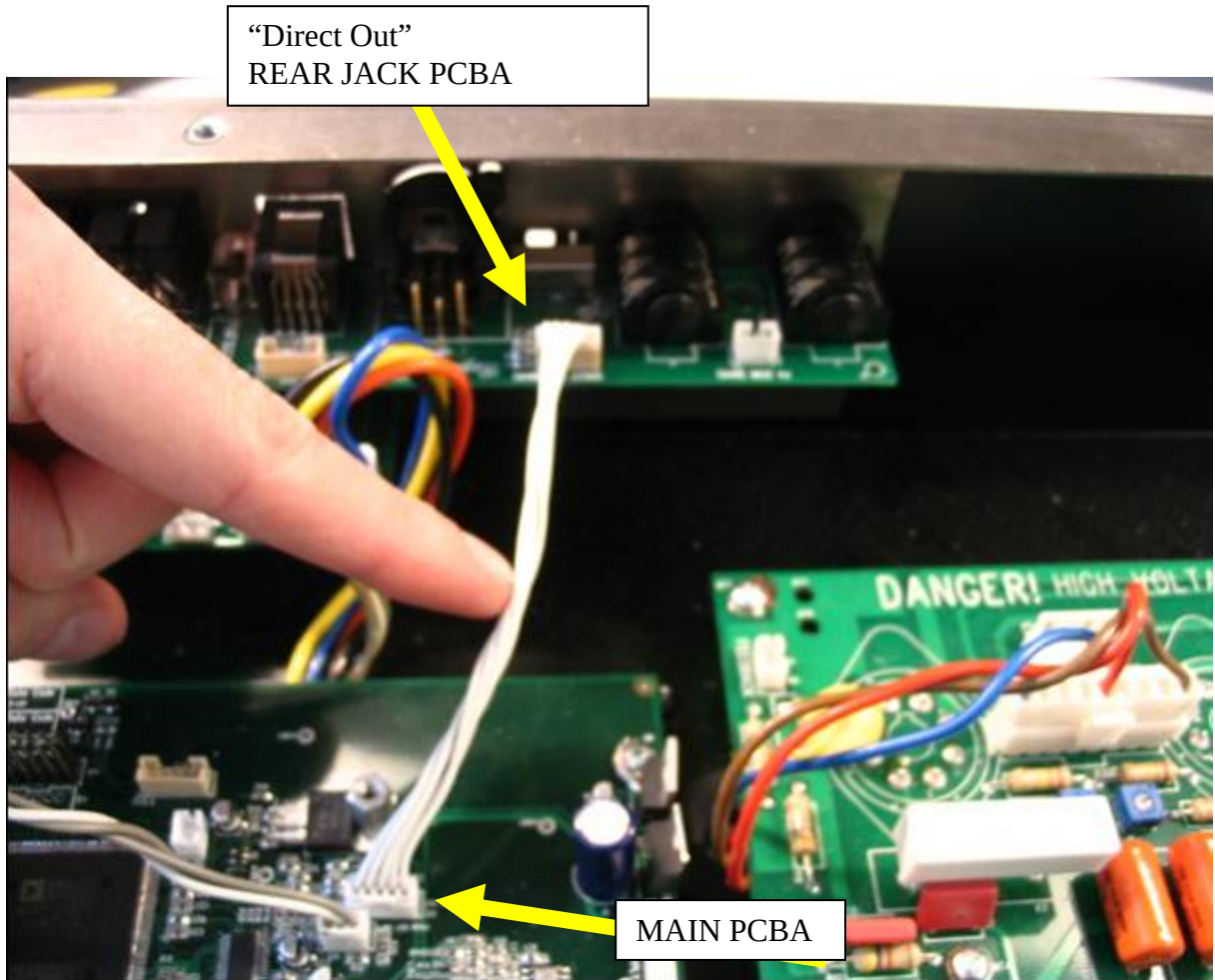


STEP 33

P/N required:

1 each **21-34-0085-3** CABLE ASSY 5-COND (Direct Out)

Connect the CABLE ASSY as shown.



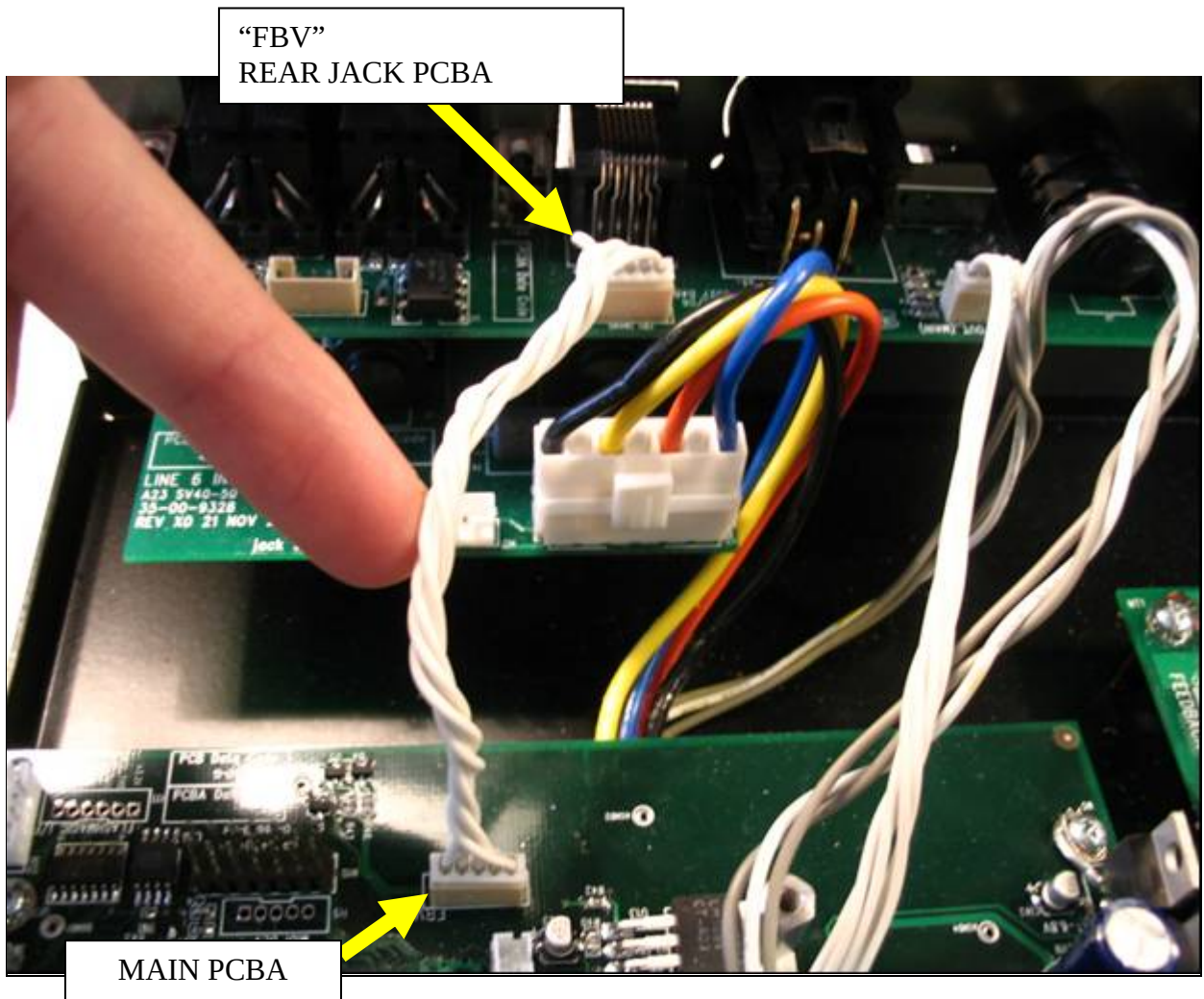
STEP 34

P/N required:

1 each **21-34-0085-2** CABLE ASSY 5-COND (FBV)

Connect the CABLE ASSY as shown.

Twist prior to installation.



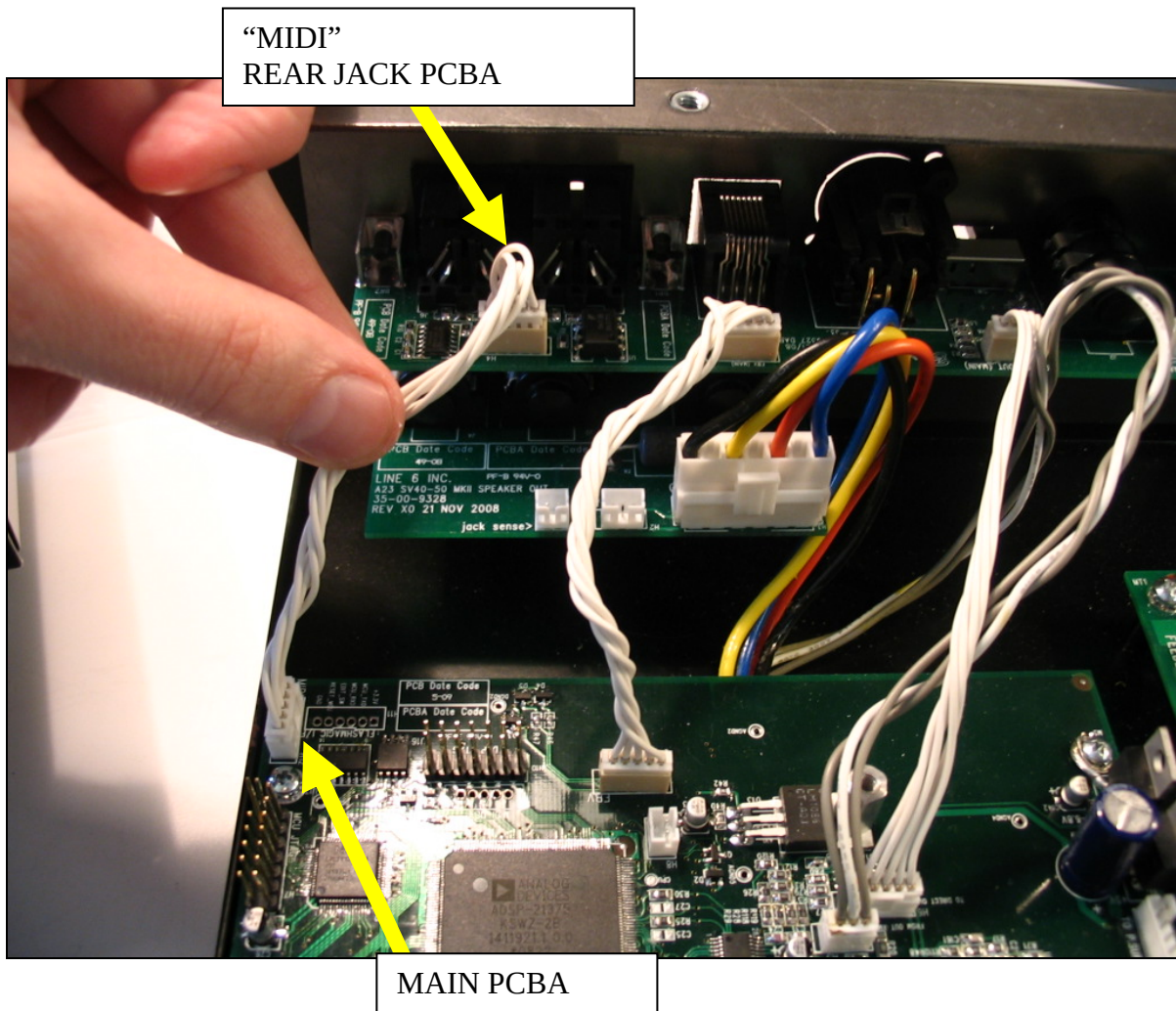
STEP 35

P/N required:

1 each **21-34-0085-2** CABLE ASSY 5-COND (MIDI)

Connect the CABLE ASSY as shown.

Twist prior to installation

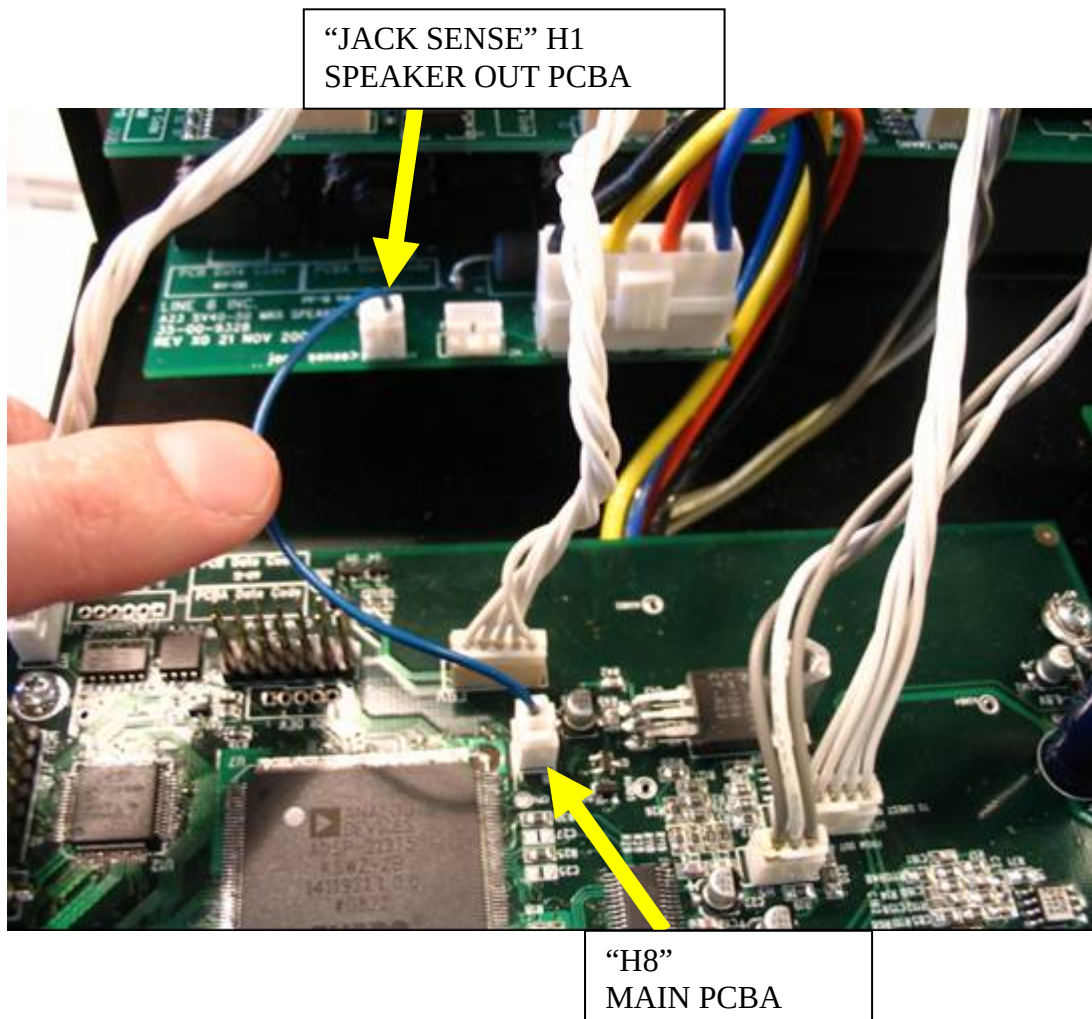


STEP 36

P/N required:

1 each **21-34-0093** CABLE SPEAKER OUT – MAIN (Jack Sense)

Connect the CABLE ASSY as shown.



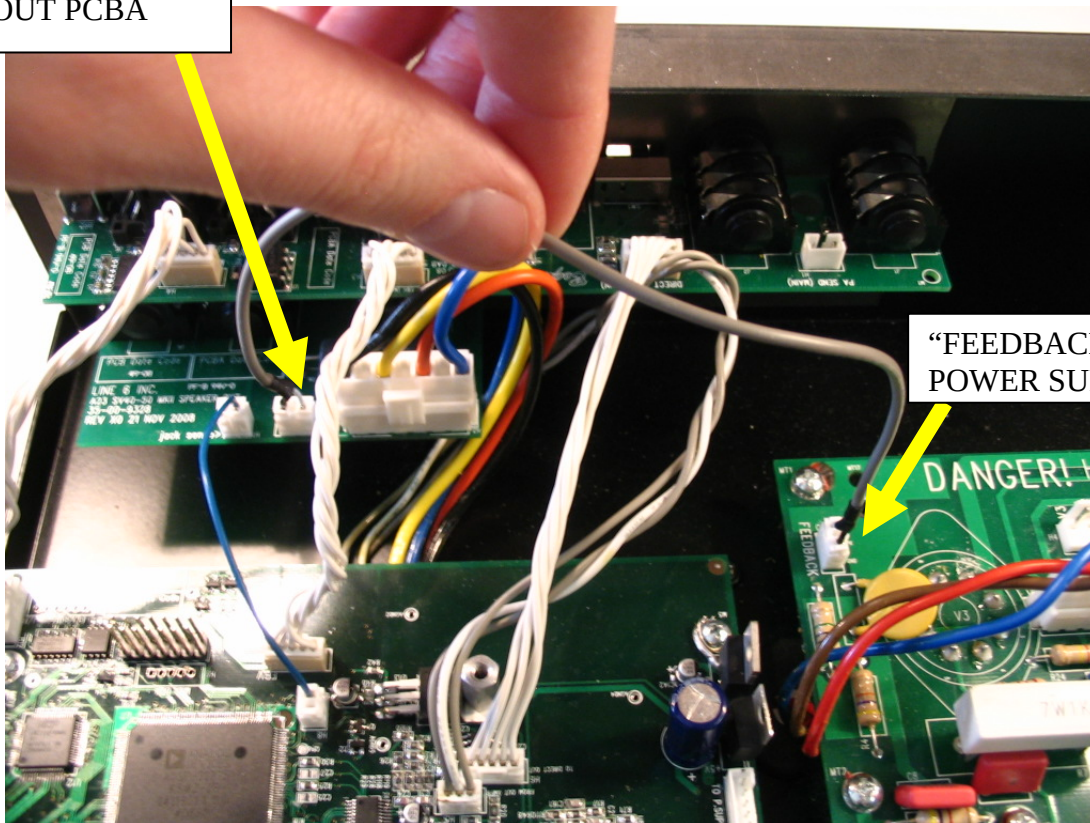
STEP 37

P/N required:

1 each **21-34-0097-1** CABLE AMP/SUPPLY – SPEAKER OUT (Feedback)

Connect the CABLE ASSY as shown.

“FEEDBACK” (H2)
SPEAKER OUT PCBA



“FEEDBACK”
POWER SUPPLY PCBA

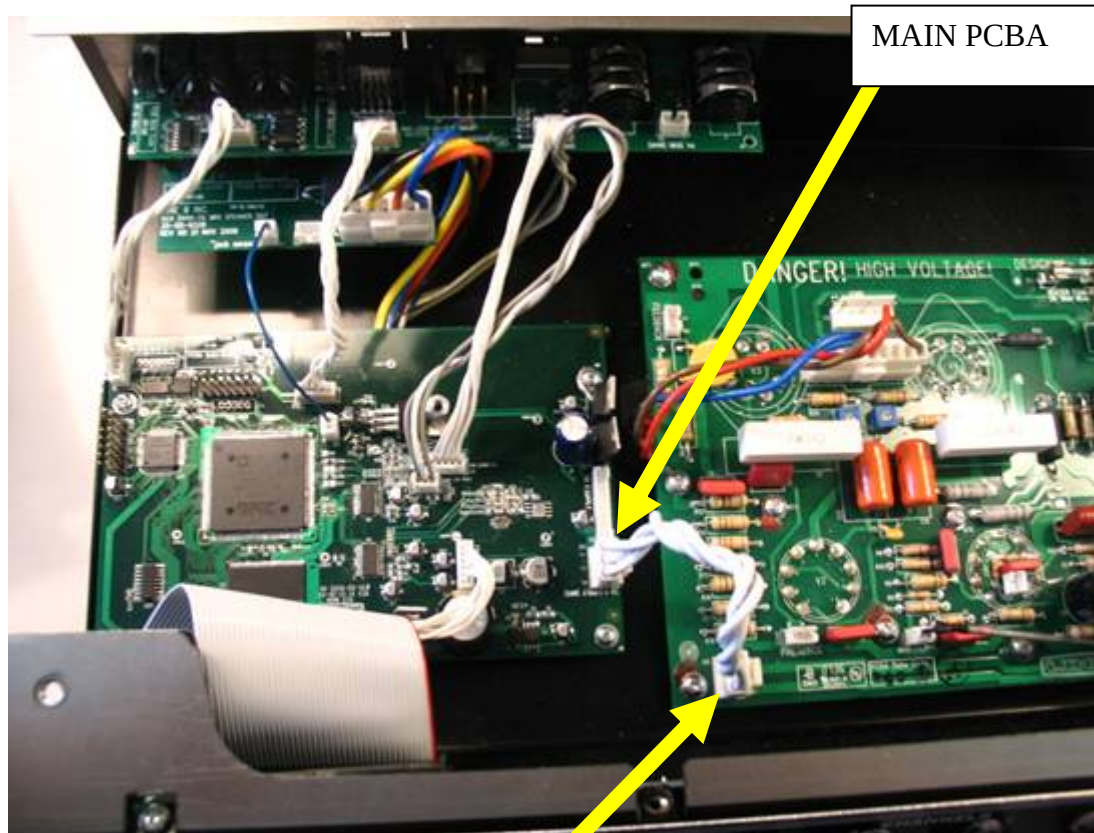
STEP 38

P/N required:

1 each **21-34-0095** CABLE

Connect the CABLE ASSY as shown.

Twist prior to installation.



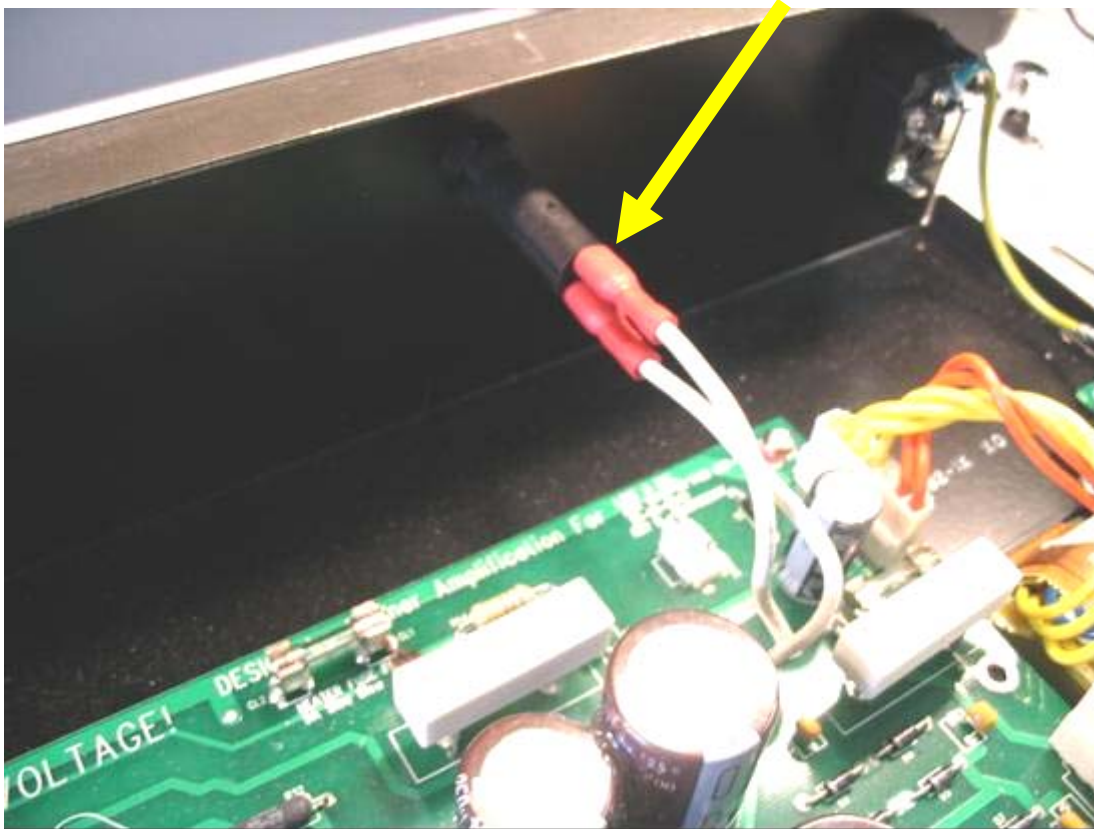
POWER SUPPLY PCBA

STEP 39

P/N required:

21-34-1117 CABLE AMP/SUPPLY – FUSEHOLDER (soldered on POWER SUPPLY PCBA).

Connect CABLES to the FUSEHOLDER terminals as shown.

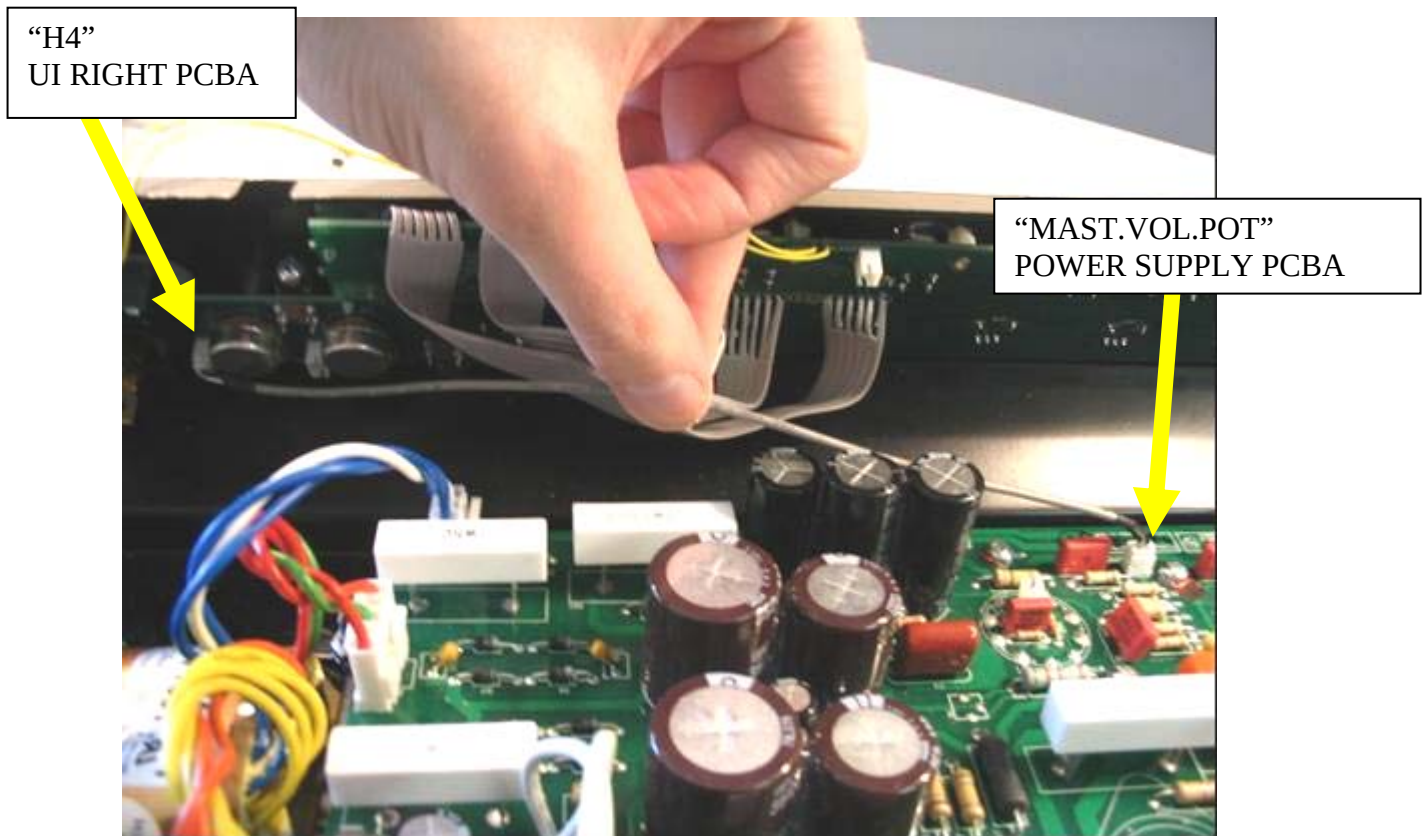


STEP 40

P/N required:

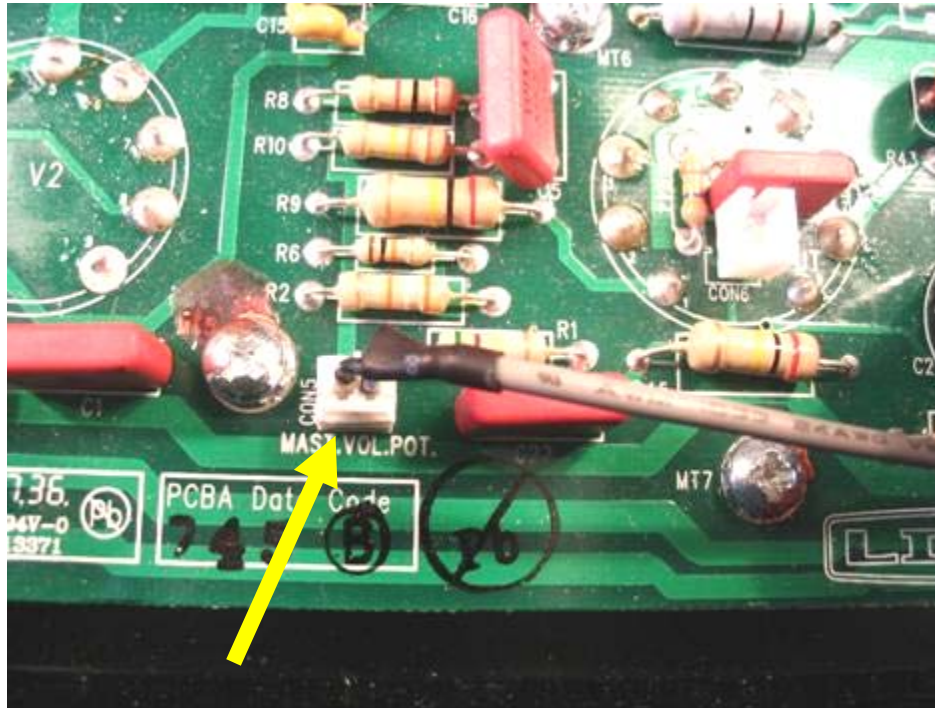
1 each **21-34-0101-3** CABLE ASSY SHIELDED (Master Vol)

Connect the CABLE ASSY as shown.



Step 40 is continued on next page

STEP 40 CONT'D

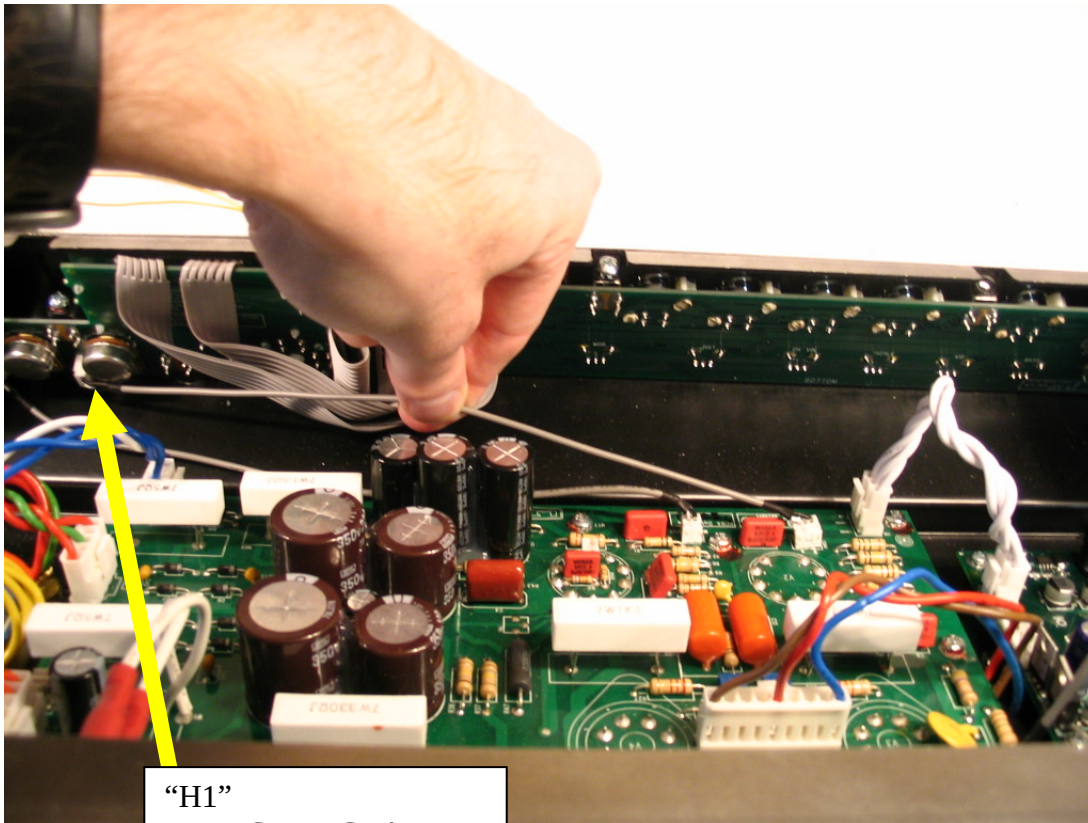


STEP 41

P/N required:

1 each **21-34-0097-2** CABLE ASSY SHIELDED (Presence)

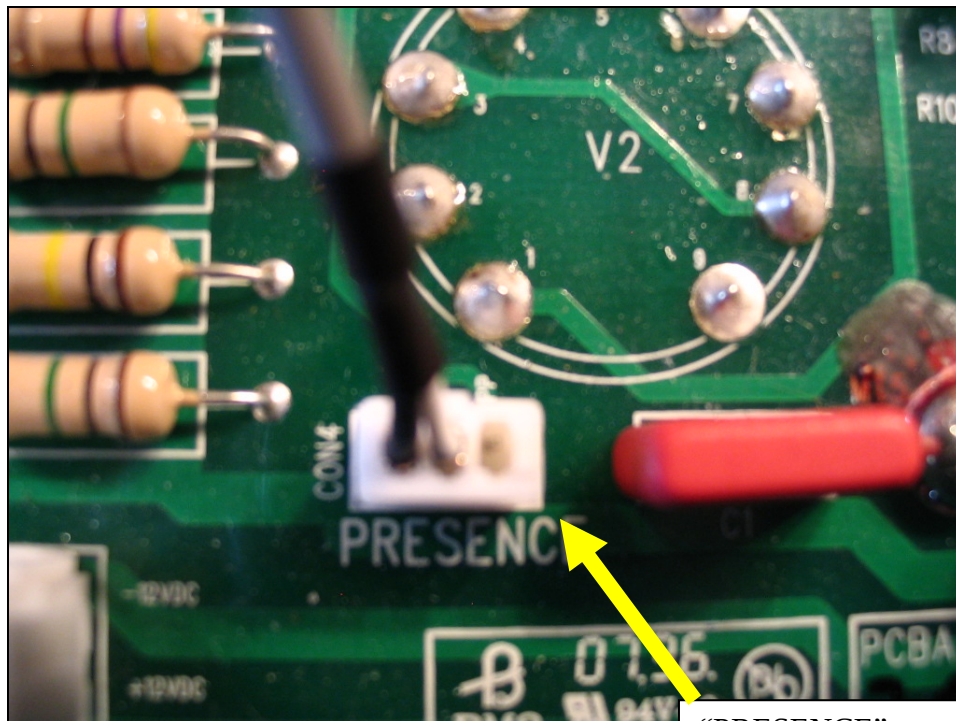
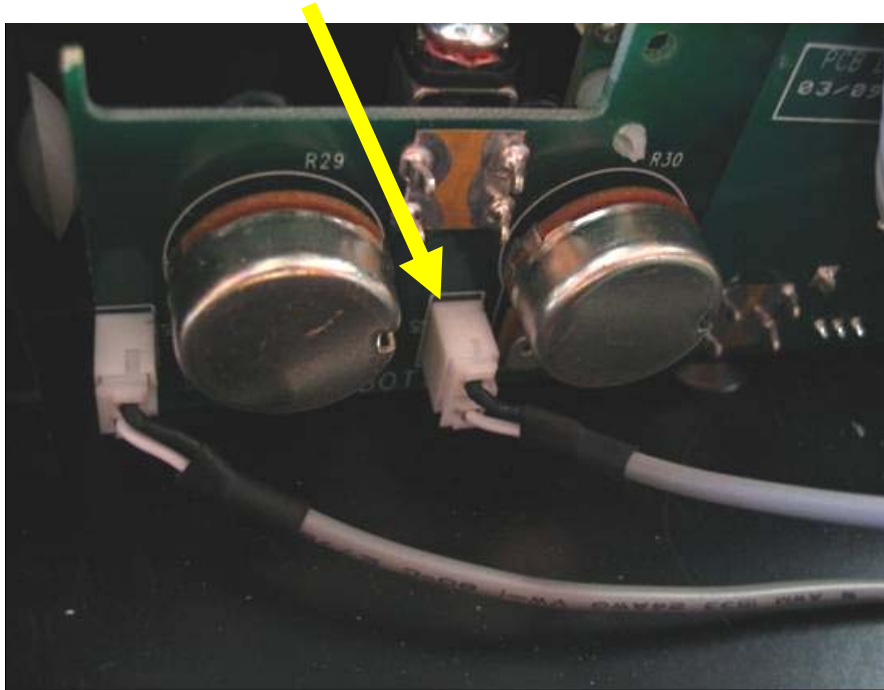
Connect the CABLE ASSY as shown.



“H1”
UI RIGHT PCBA

Step 41 is continued on next page

STEP 41 CONT'D



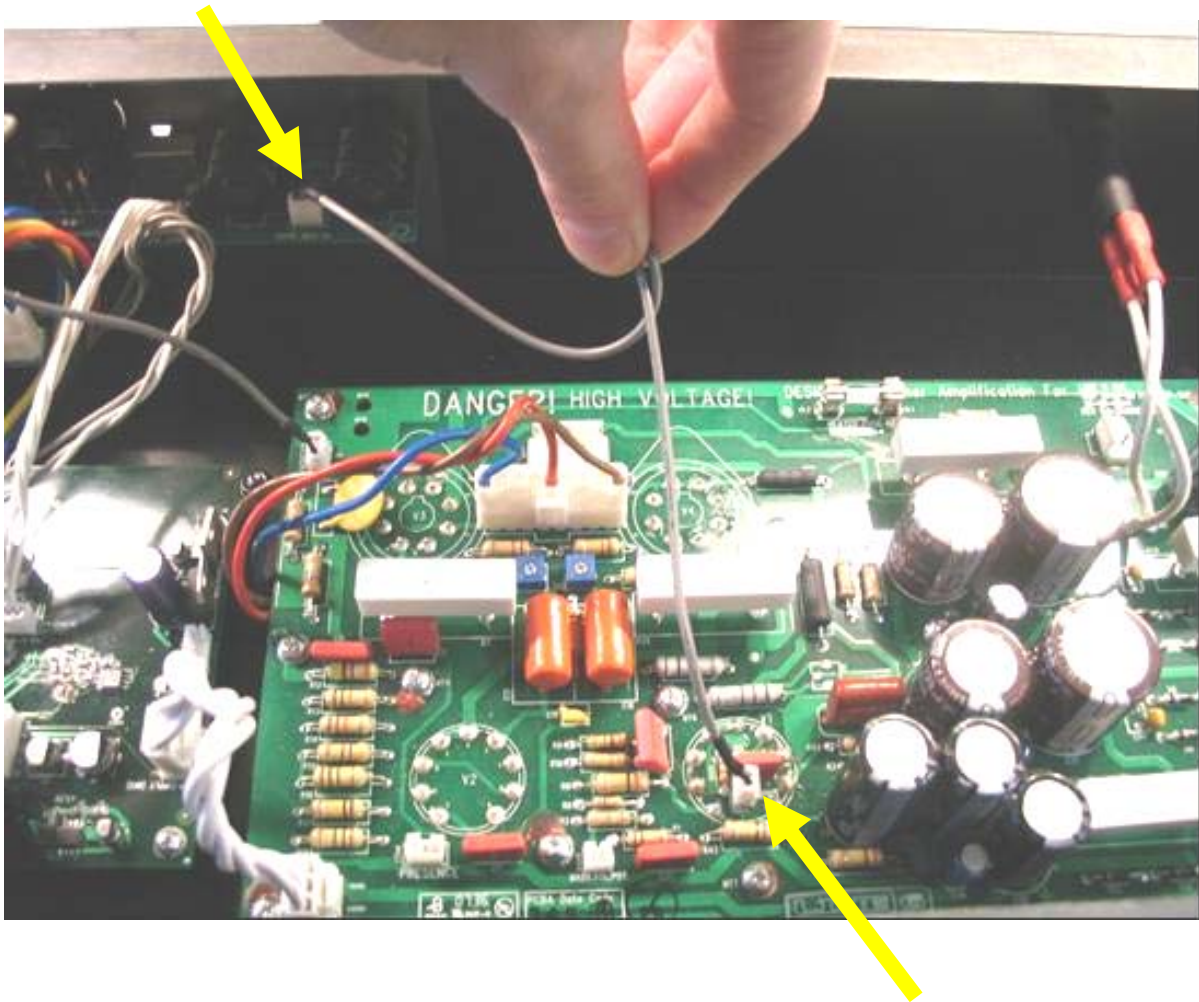
“PRESENCE”
POWER SUPPLY PCBA

STEP 42

P/N required:

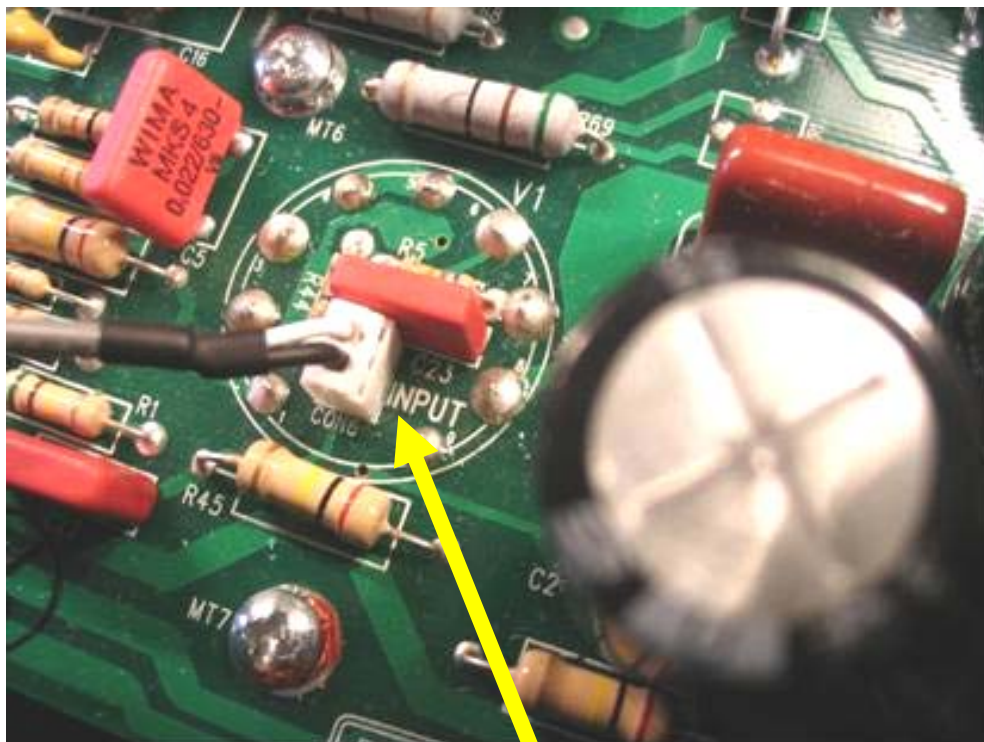
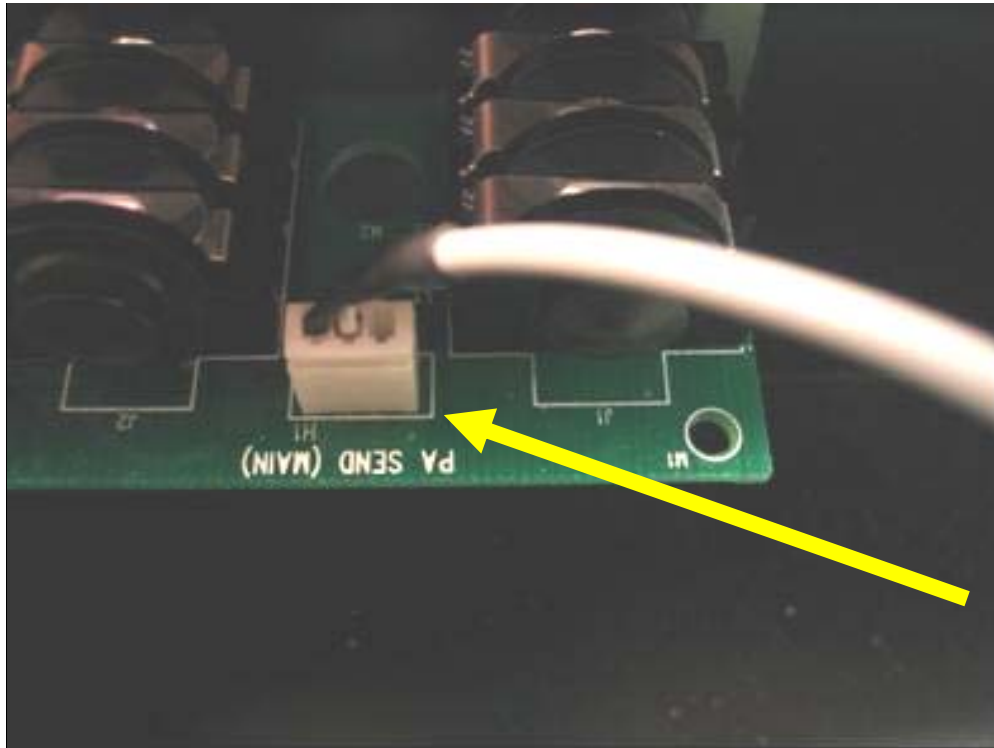
1 each **21-34-0100-2** CABLE ASSY SHIELDED (PA Send to Power Amp/Supply)

Connect the CABLE ASSY as shown.



Step 42 is continued on next page

STEP 42 CONT'D

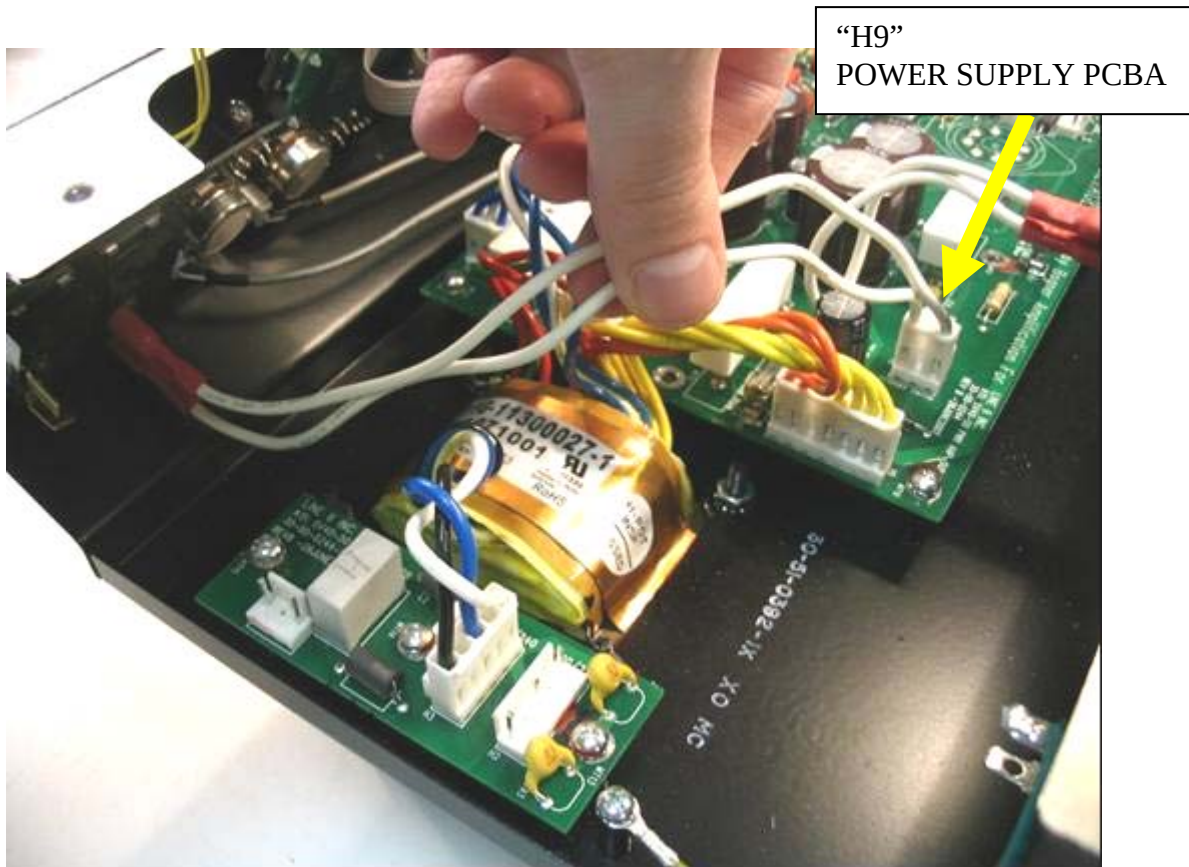


STEP 43

P/N required:

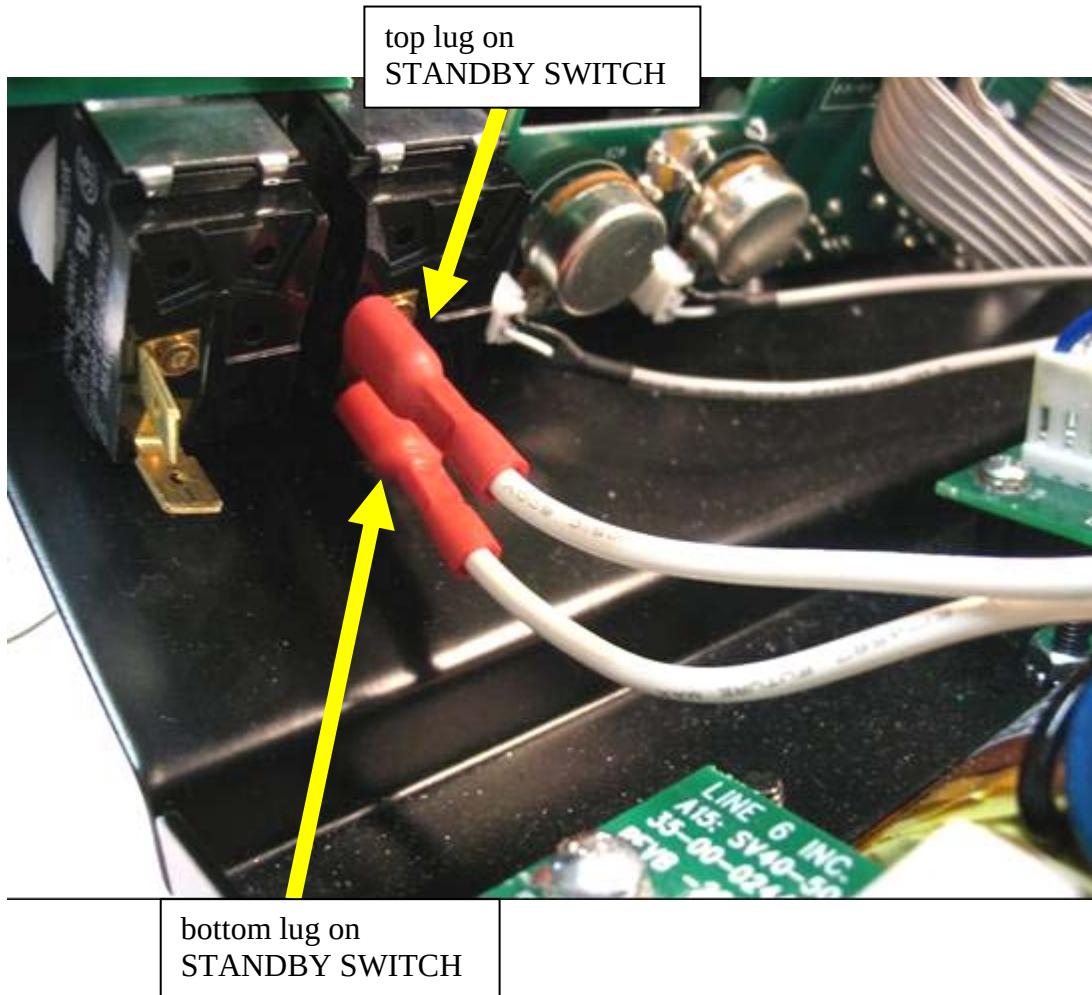
1 each **21-34-0135-2** CABLE PCBA AMP/SUPPLY – STANDBY SWITCH

Connect the CABLE ASSY as shown.



Step 43 is continued on next page

STEP 43 CONT'D



Step 43 is continued on next page

STEP 43 (continued)



STANDBY
SWITCH

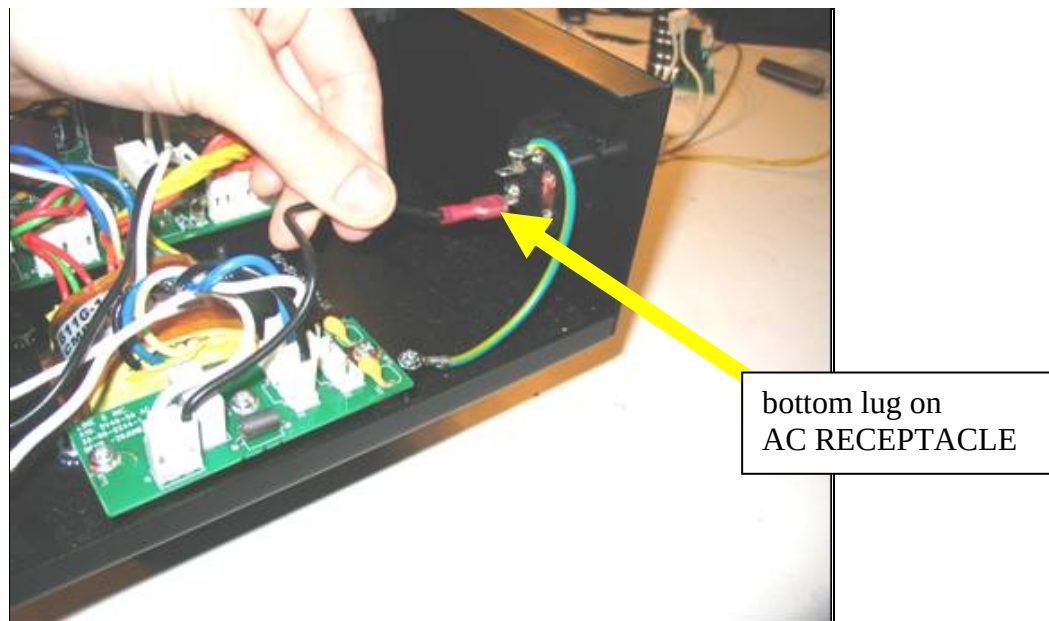
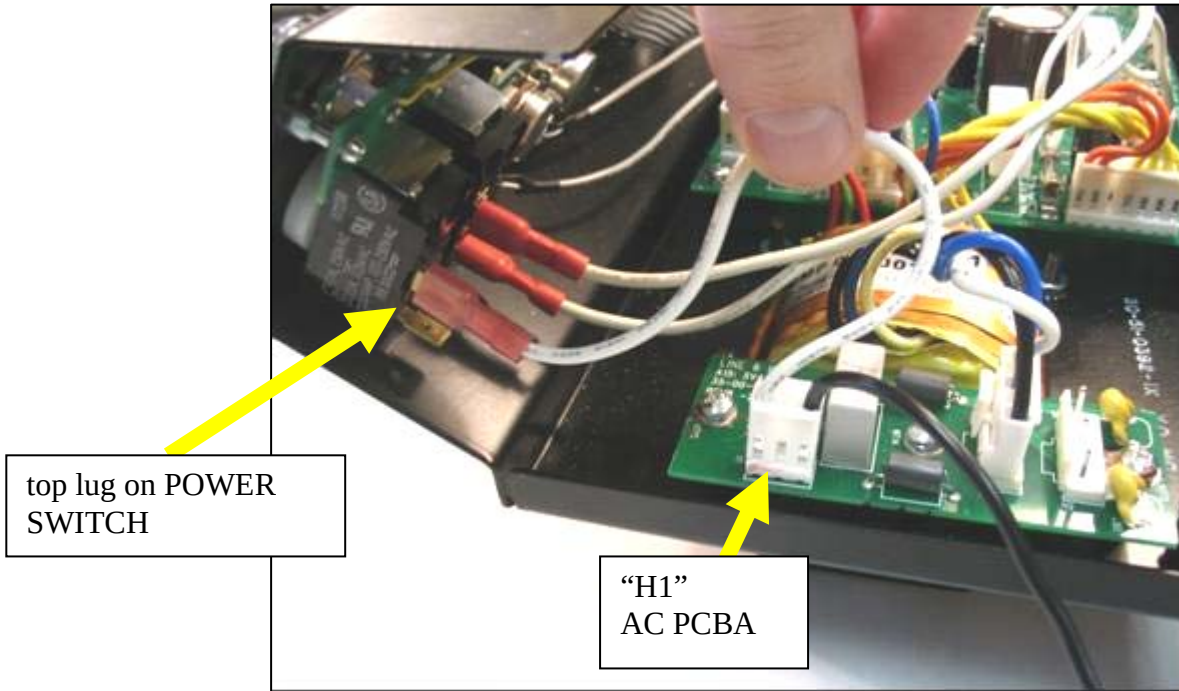
POWER
SWITCH

STEP 44

P/N required:

1 each **21-34-0135-6** CABLE AC – POWER SWITCH

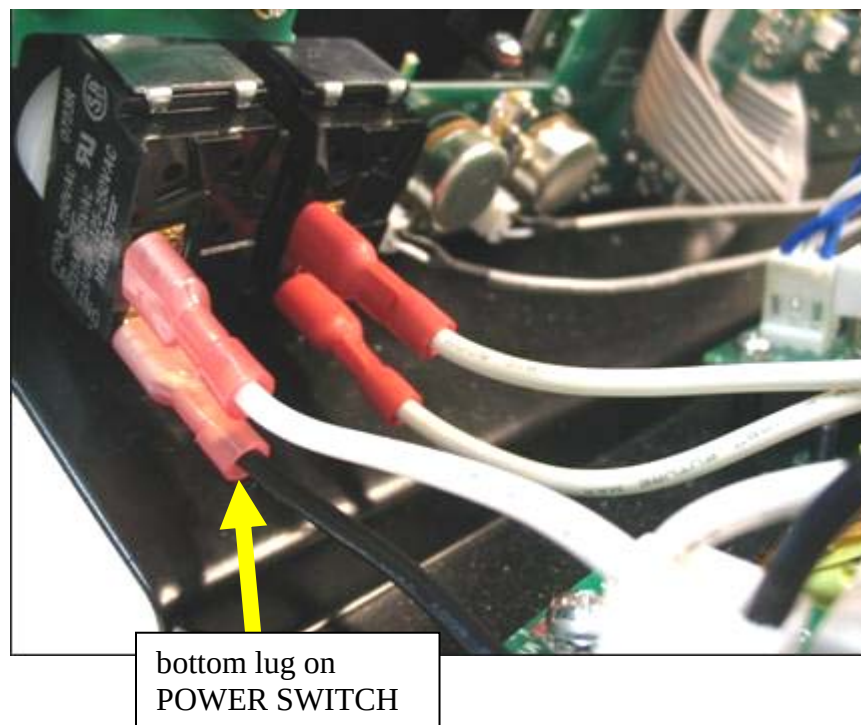
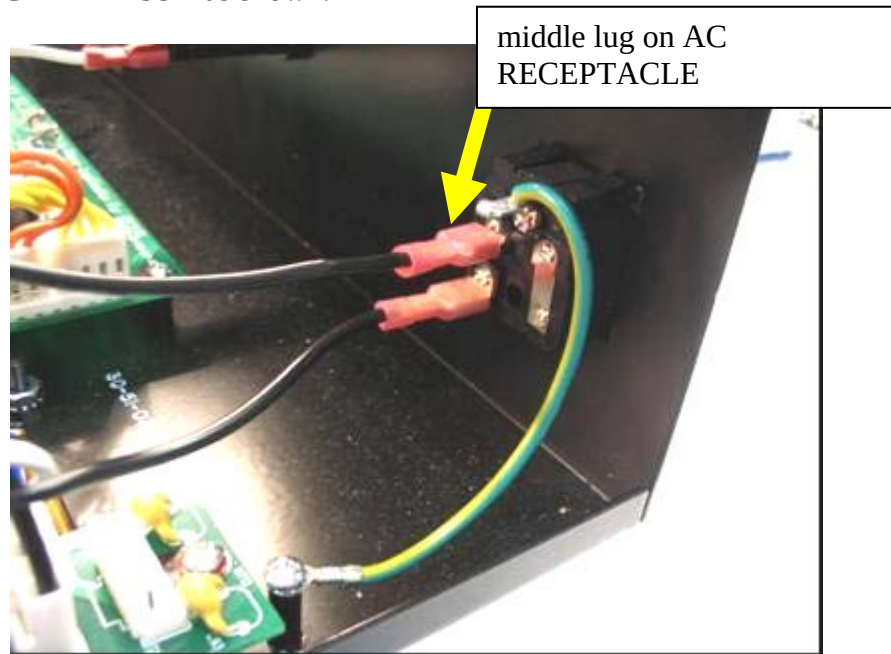
Connect the CABLE ASSY as shown.



STEP 45

P/N required:
1 each **21-34-1023-3** CABLE 1-COND BLK

Connect the CABLE ASSY as shown.



STEP 46

P/N required:

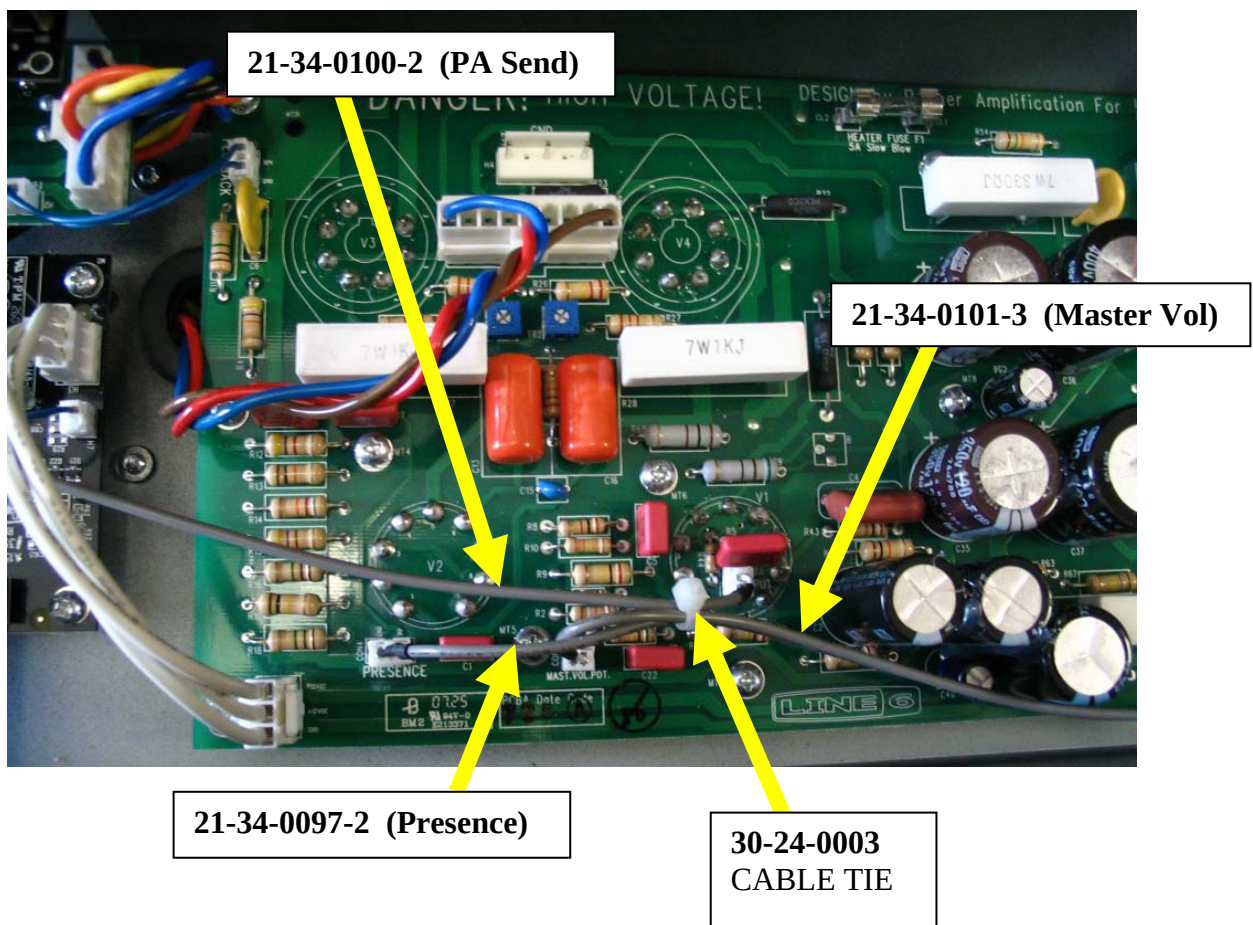
5 each **30-24-0003** CABLE TIE

Use one CABLE TIE to secure 21-34-0097-2 (PRESENCE), 21-34-0101-3 (MASTER VOL) and 21-34-0100-2 (PA Send) together.

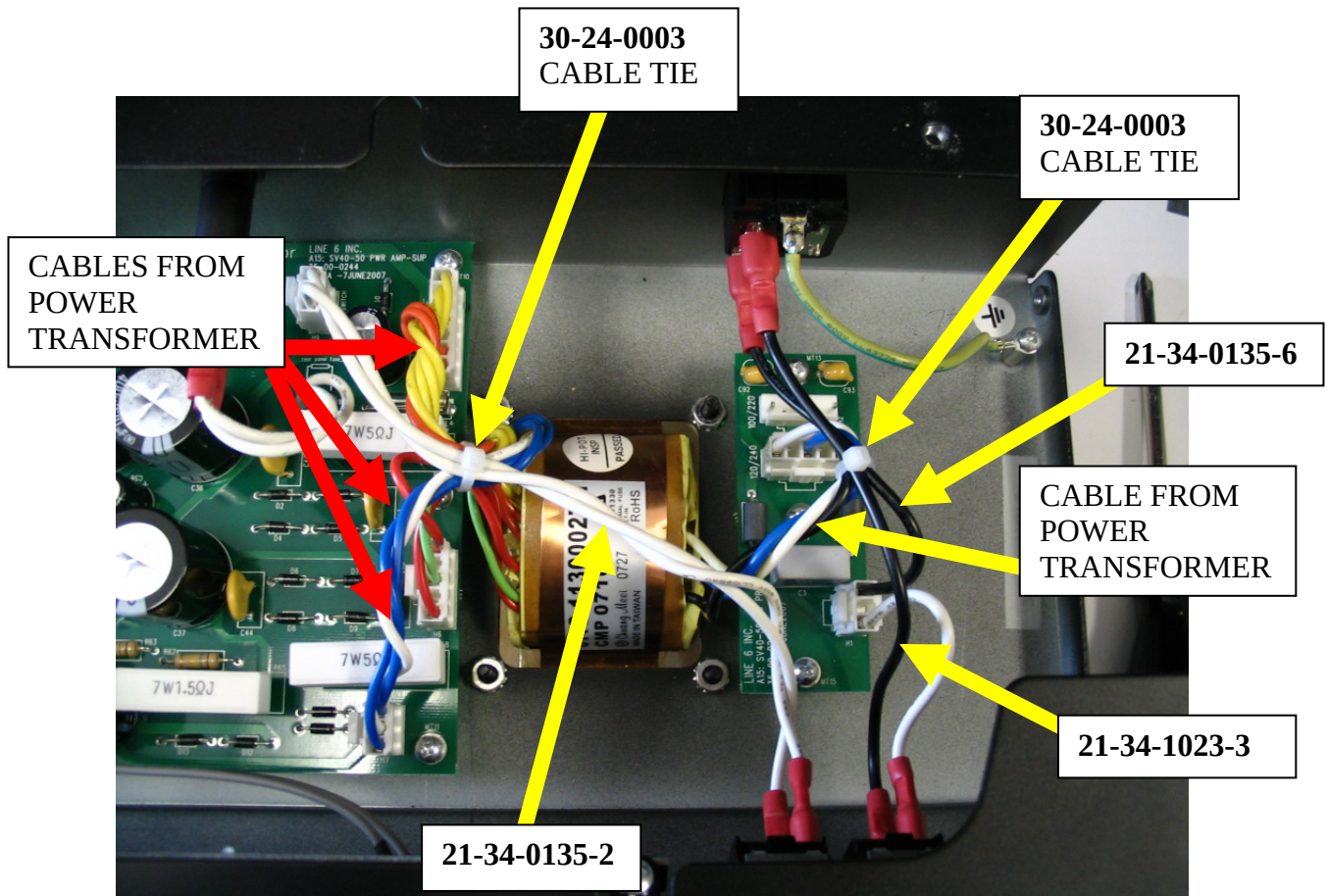
Use one CABLE TIE to secure the cables from the POWER TRANSFORMER and 21-34-0135-2 together as shown.

Use one CABLE TIE to secure 21-34-0135-6, 21-34-1023-3, and the remaining cables from the POWER TRANSFORMER together.

Clip off excess material from the CABLE TIES after installation.



STEP 46 (continued)

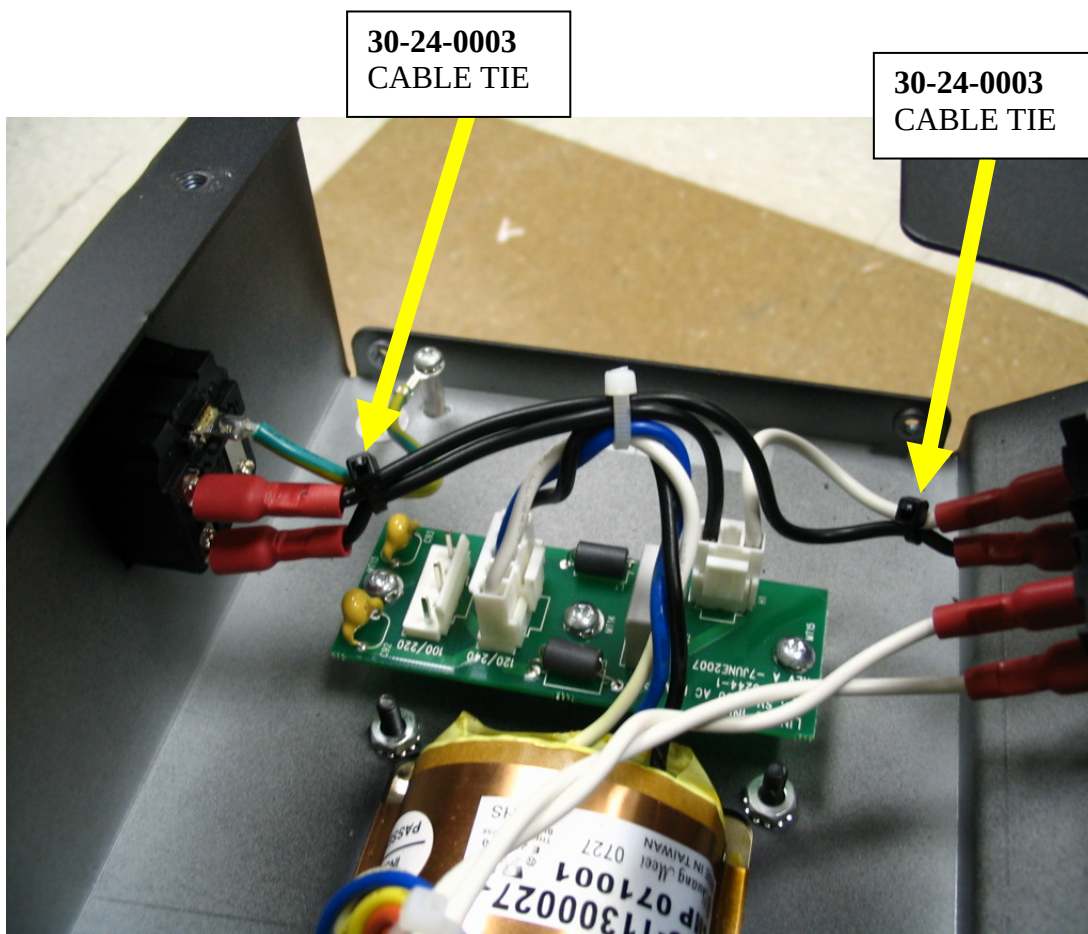


STEP 46 (continued)

Use one CABLE TIE to secure the black cables extending from the IEC CONNECTOR as shown.

Use one CABLE TIE to secure the black and white cables extending from the ROCKER SWITCH as shown.

Clip off excess material from the CABLE TIES after installation.

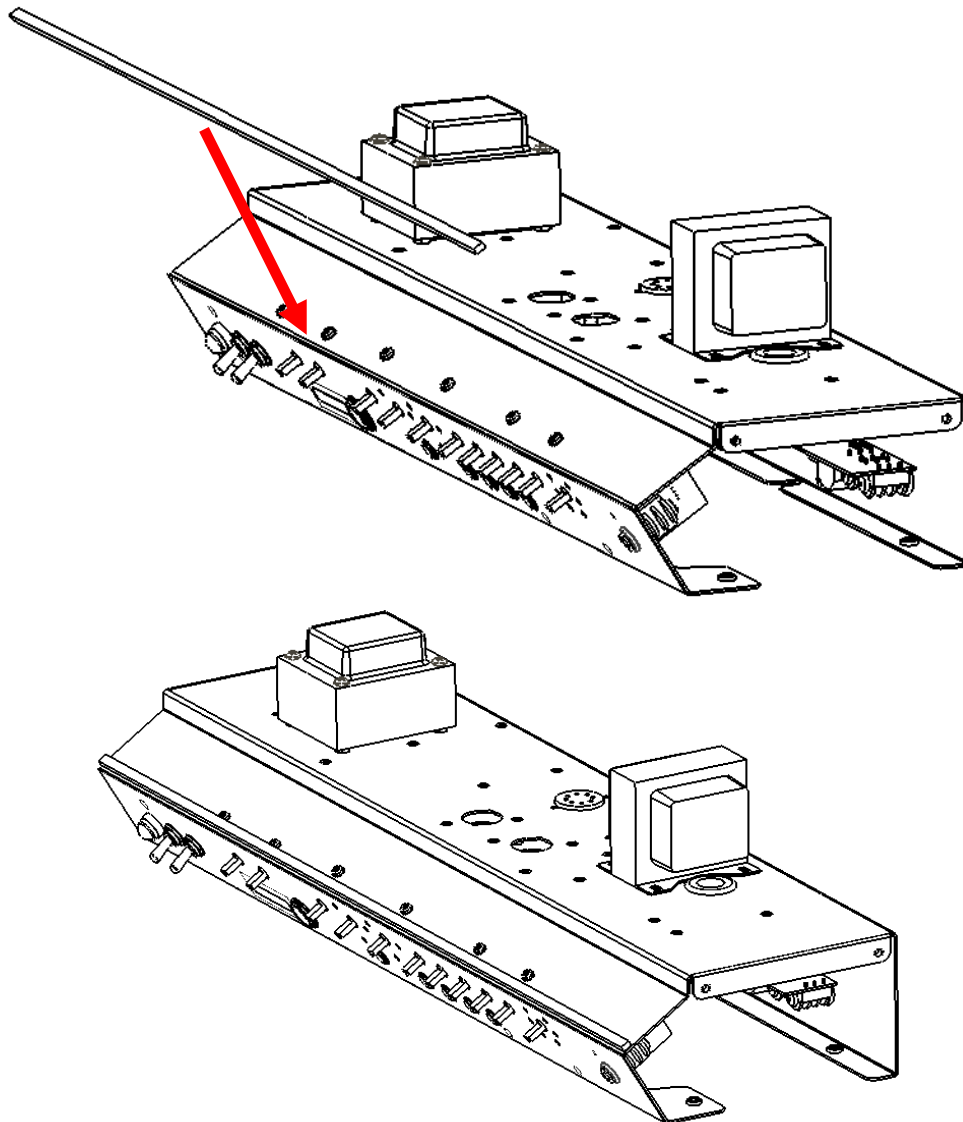


STEP 47

P/N required:

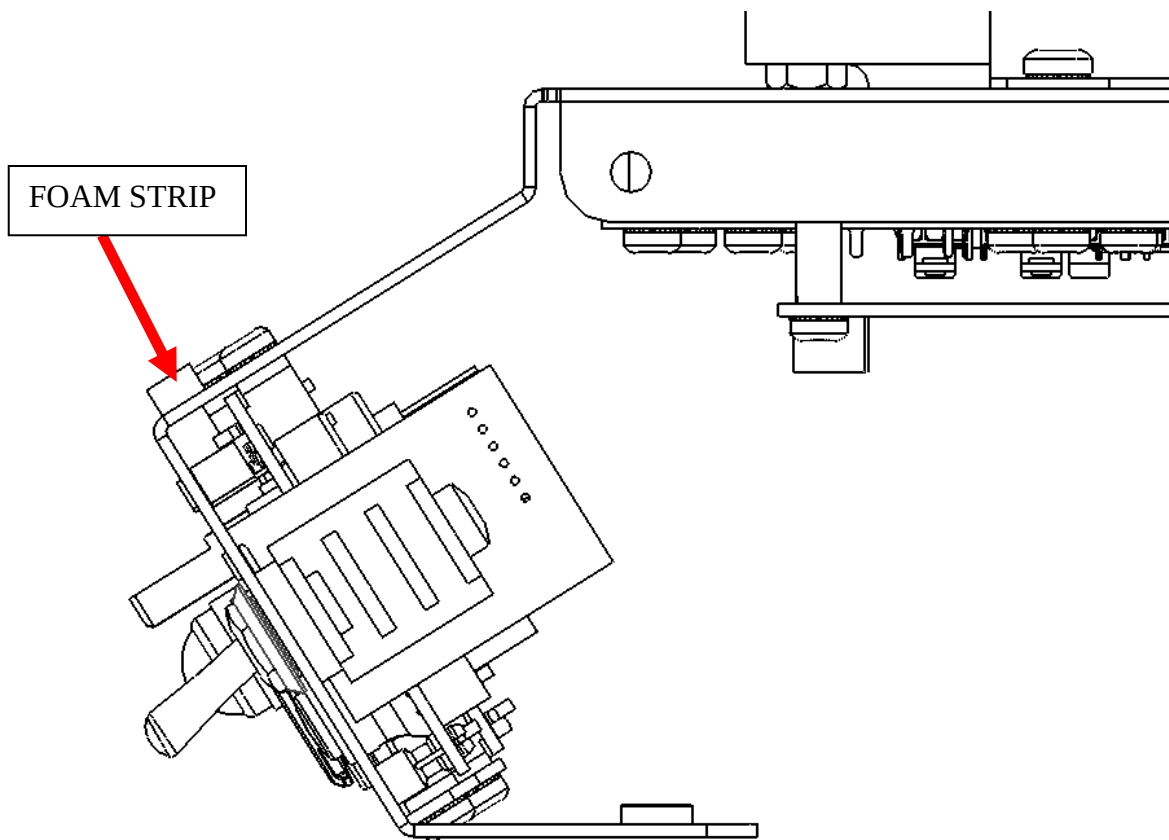
1 each **30-63-0030-1 (A23-2)** or **30-63-0030-2 (A23-3)** FOAM STRIP

Remove the backing from the adhesive on the FOAM STRIP and press the FOAM STRIP into place on the CHASSIS. Locate the FOAM STRIP such that it follows the bend in the CHASSIS as shown.



(Step 47 is continued on the next page.)

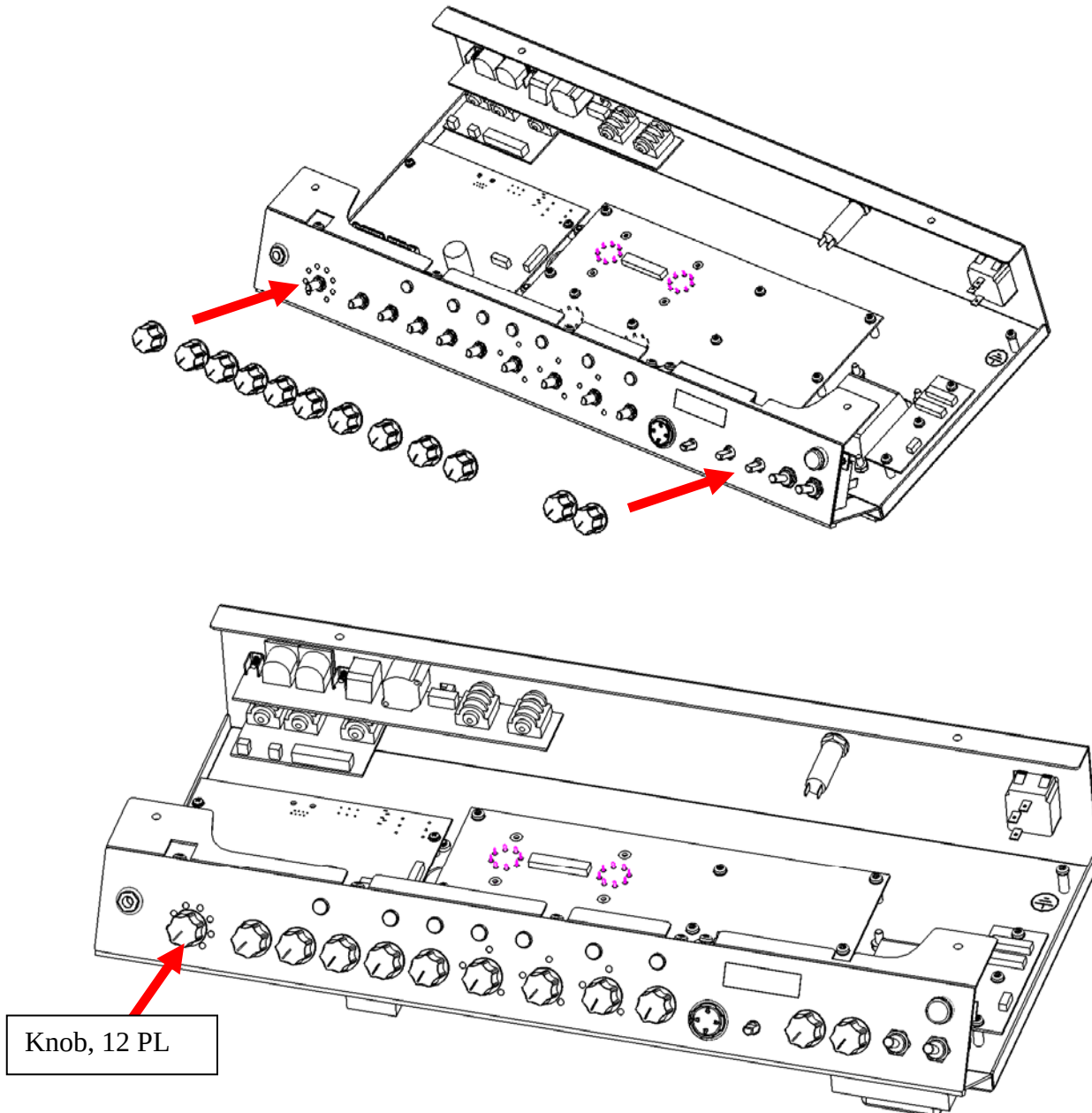
STEP 47 (continued)



STEP 48

P/N required:
12 each **30-45-0020** KNOB

Press one KNOB fully onto the shaft of each potentiometer.



STEP 49

P/N required:

1 each **30-45-0027** KNOB ENCODER

Press one KNOB fully onto the shaft of the encoder.



STEP 50

P/N required:

2 each **30-21-0005** TUBE RETAINER

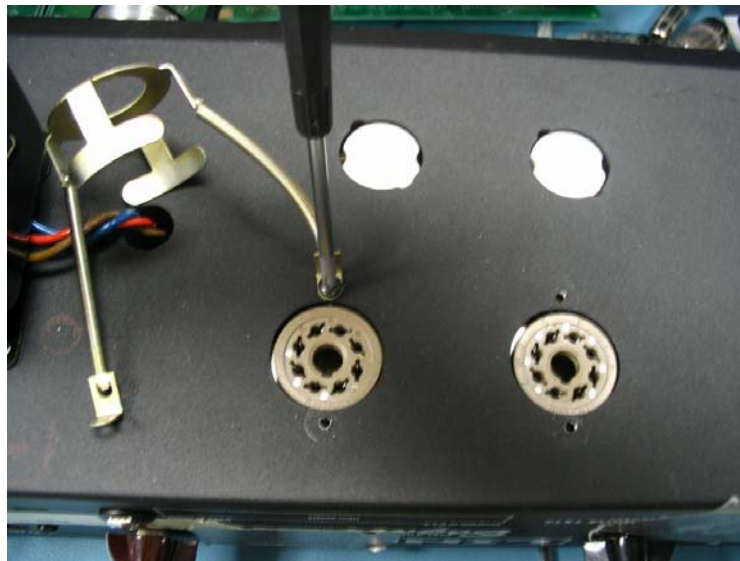
4 each **30-00-0126** SCREW #5-40 x 0.300 SELF-TAPPING

Use fixture shown below (or similar) to support the PCBA during screw installation.



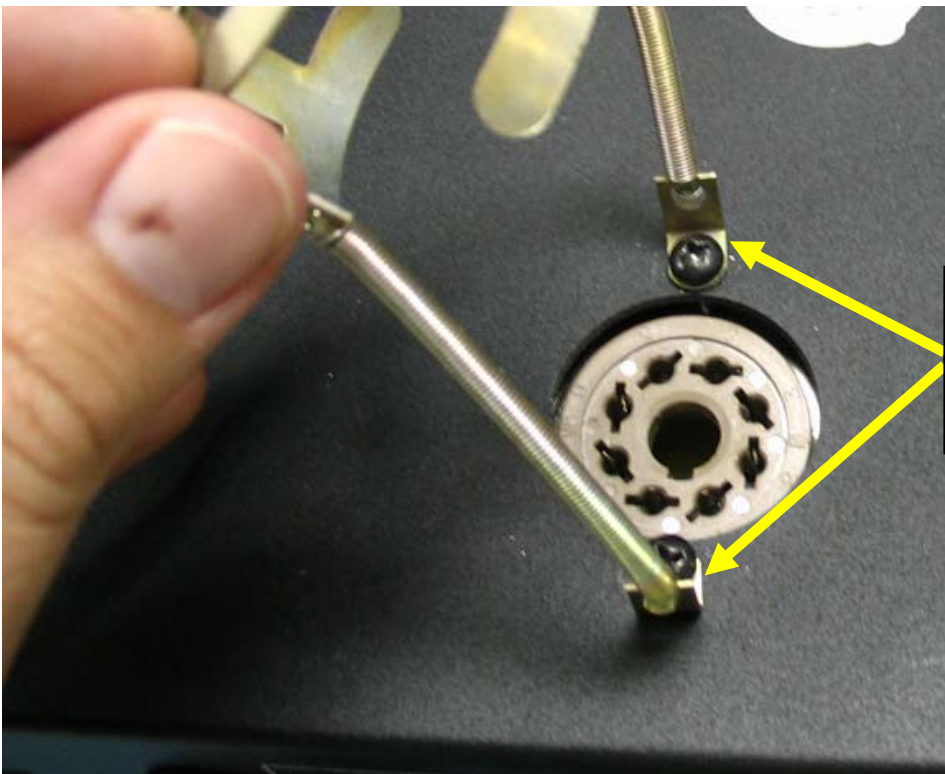
Note – this is fixture for SV100 Head. Picture of fixture for SV40 and SV50 is not available.

Secure one TUBE RETAINER over each of the two large tube sockets with 2 SCREWS. Align the mounting tabs of the TUBE RETAINERS as shown. Turn the SCREWS until they are fully seated.



(Step 50 is continued on the next page)

STEP 50 (continued)



Align the mounting
tabs of the TUBE
RETAINERS as
shown.

STEP 51

P/N required:

2 each **11-02-0000** TUBE 12AX7

1 each **11-02-0001** TUBE 5881/6L6 (MATCHED PAIR)

Push one TUBE 12AX7 into each small tube socket on the bottom of the CHASSIS.

Push one TUBE 5881/6L6 into each large tube socket on the bottom of the CHASSIS.



Step 51 is continued on the next page

STEP 51 Continued

Extend the springs on the TUBE RETAINERS to locate the TUBE RETAINERS onto the end of each TUBE 5881/6L6 as shown.



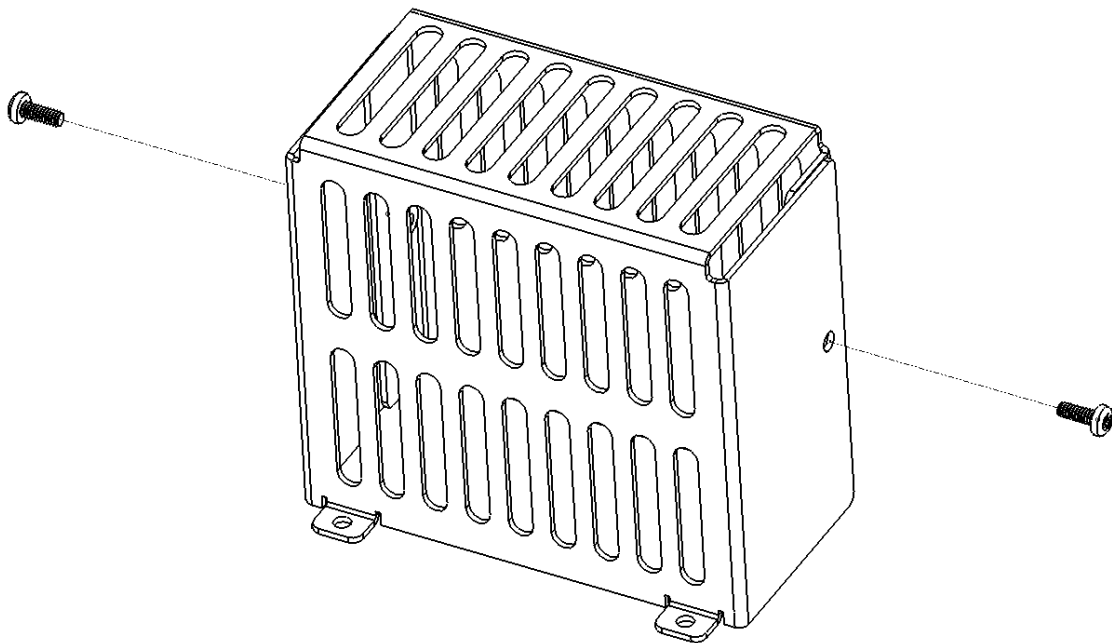
STEP 52

P/N required:

1 each **30-51-0310** TUBE CAGE

2 each **30-00-0128** SCREW 6-32 x 0.375 w/LK WASH PPH BLK

Install screws as shown. Torque each SCREW to 6 – 8 inch-pounds.

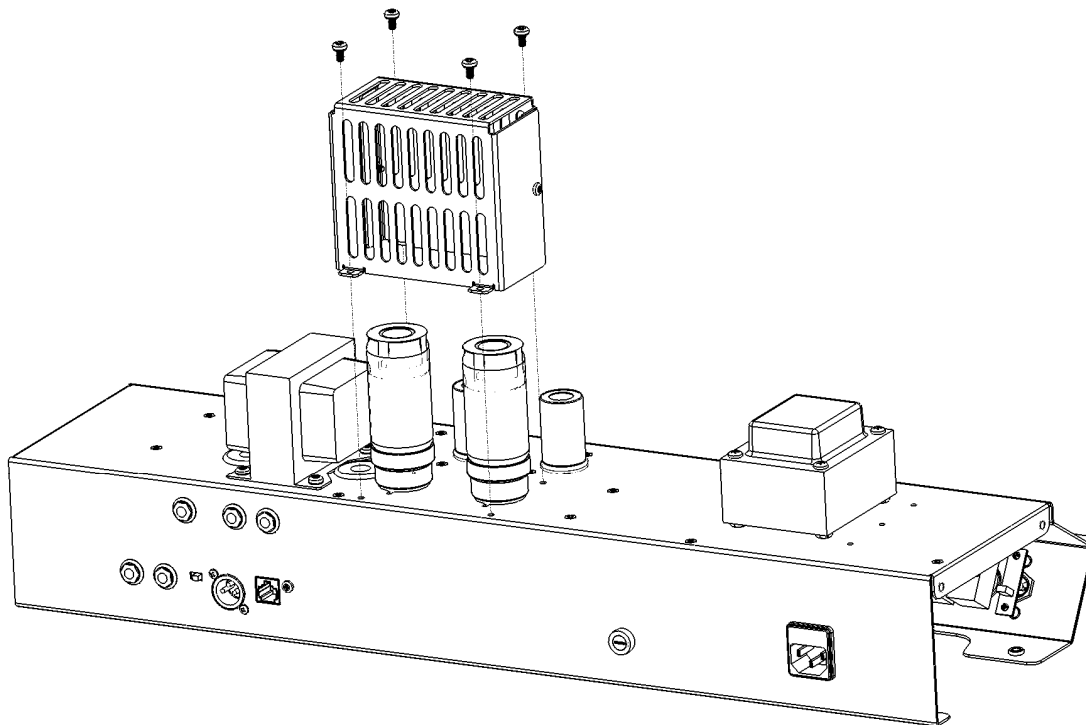


STEP 53

P/N required:

4 each **30-00-0125** SCREW 8-32 x 5/16 w/LK WASH BLK

Install TUBE CAGE over tubes using four (4) screws as shown. Torque each SCREW to 8 – 10 inch-pounds.

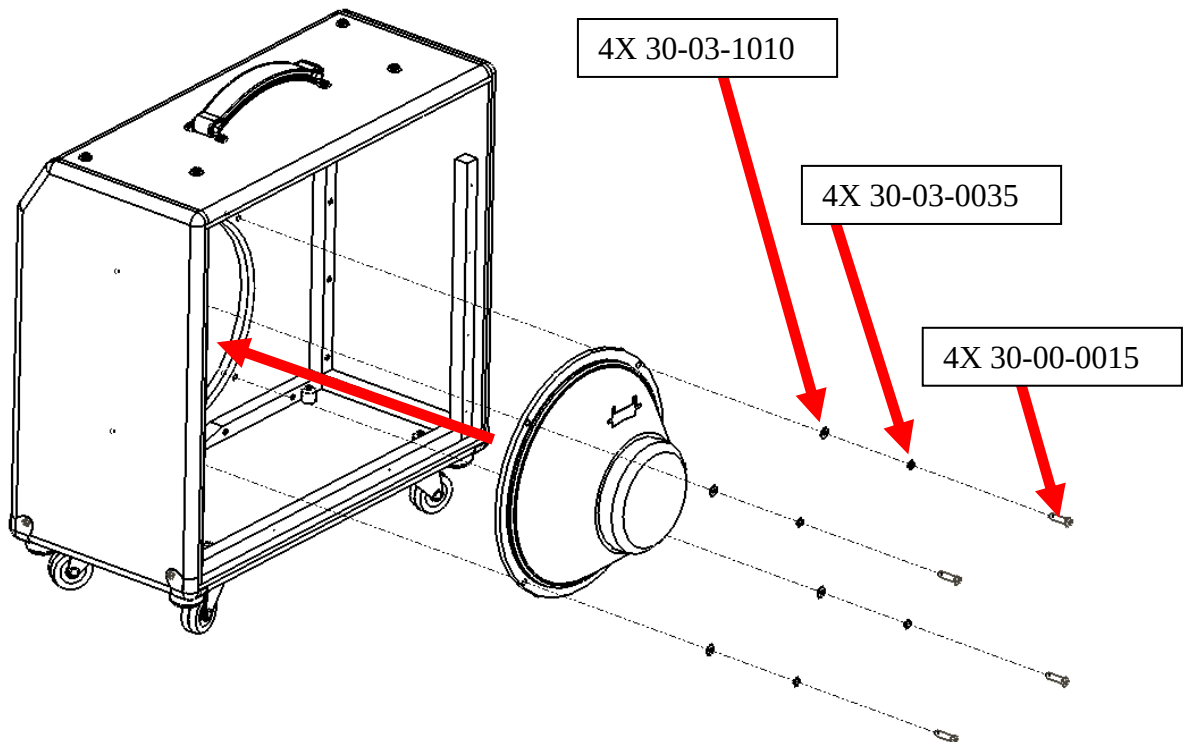


STEP 54

P/N required:

- 1 each **50-03-0081** (A23-2) or **50-03-0082** (A23-3) CAB ASSY
- 1 each (A23-2) **11-20-1004** SPEAKER or 2 each (A23-3) **11-20-1005** SPEAKER
- 4 each (A23-2) or 8 each (A23-3) **30-00-0033** SCREW 10-24 x 7/8"
- 4 each (A23-2) or 8 each (A23-3) **30-03-0035** SPLIT LOCK WASHER #10
- 4 each (A23-2) or 8 each (A23-3) **30-03-1010** FLAT WASHER #10

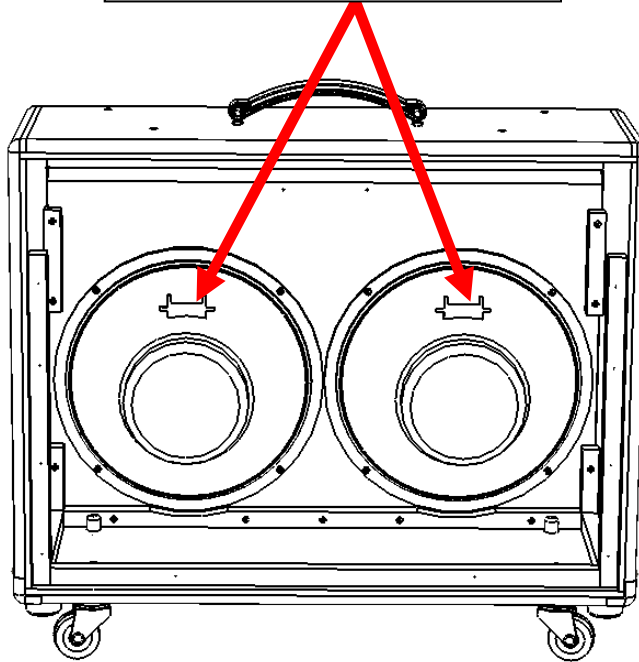
Secure the SPEAKER(S) to the CAB ASSY with 4 SCREWS, SPLIT LOCK WASHERS, and FLAT WASHERS each. Apply threadlocker (Loctite p/n 21463 or equivalent) to the threads of the SCREWS before assembly. Torque the SCREWS to 8 – 10 inch-pounds.



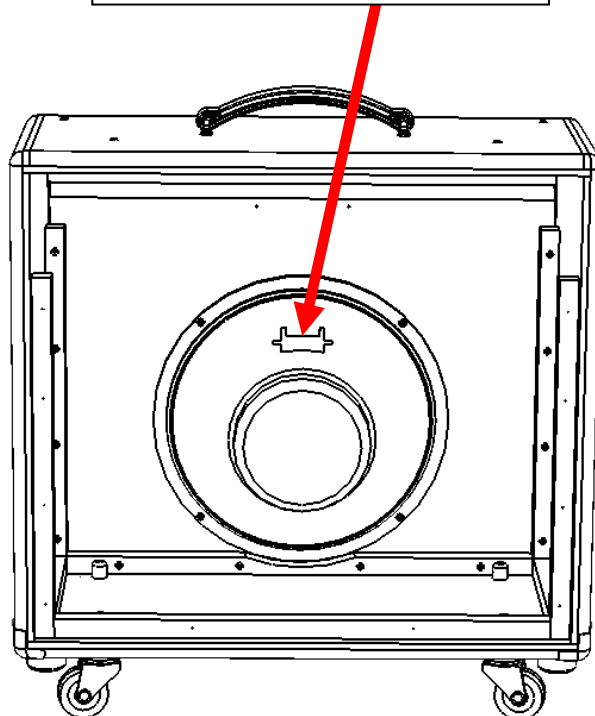
(Step 54 is continued on the next page)

STEP 54 (continued)

Note location of spade lugs.



Note location of spade lugs.



STEP 55a

P/N required:

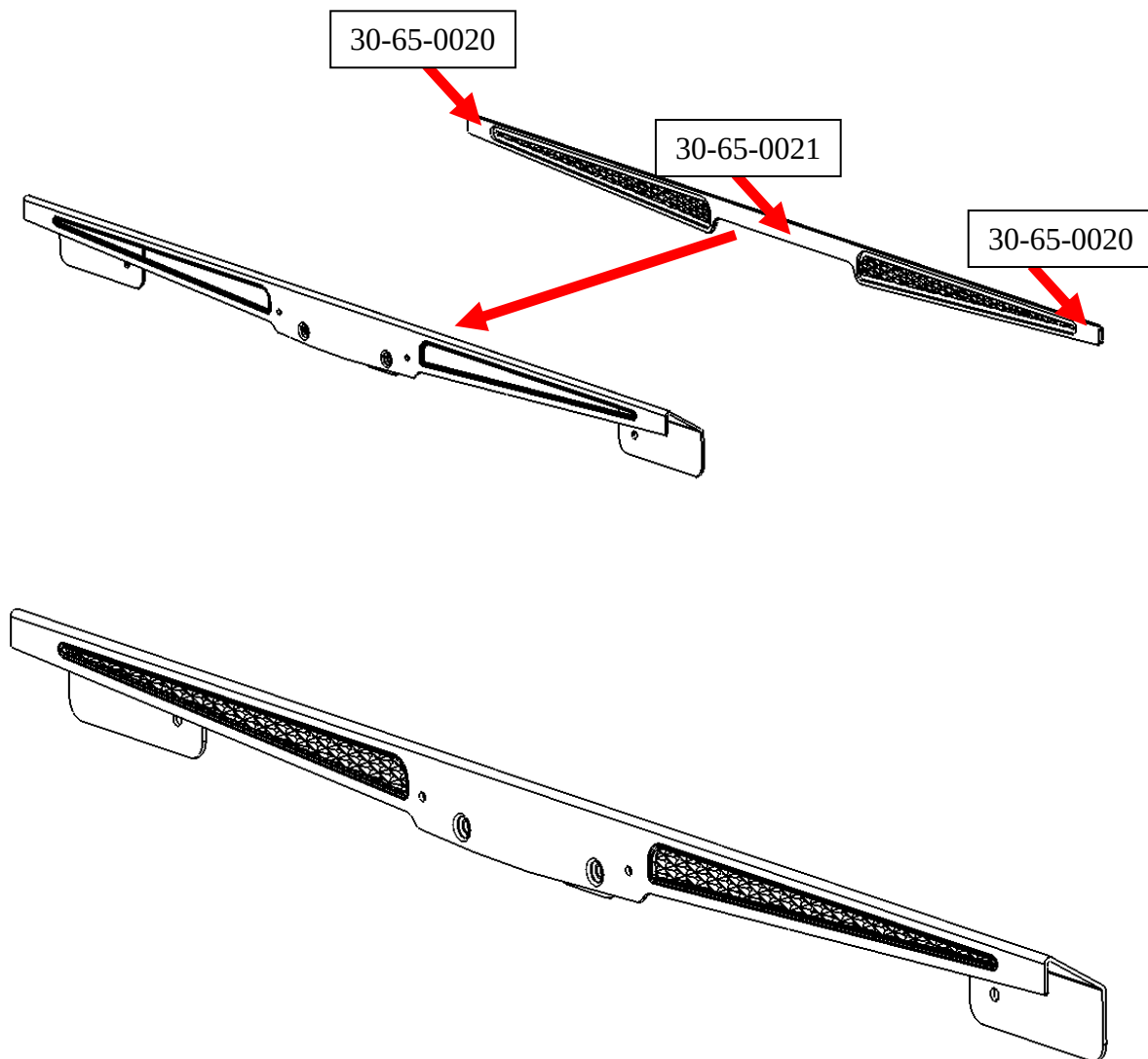
1 each **30-51-0300** LOGO FRAME 112 (A23-2) or **30-51-0301** LOGO FRAME 212 (A23-3)

1 each **30-27-0273** MESH 112 (A23-2) or **30-27-0274** MESH 212 (A23-3)

2 each **30-65-0020** SHORT TAPE

1 each **30-65-0021** LONG TAPE

Apply 2 pieces of SHORT TAPE and 1 piece of LONG TAPE to the MESH in the locations shown. Press the MESH into place on the LOGO FRAME such that the diamond-pattern cosmetic features align well in the triangular cutouts in the LOGO FRAME.



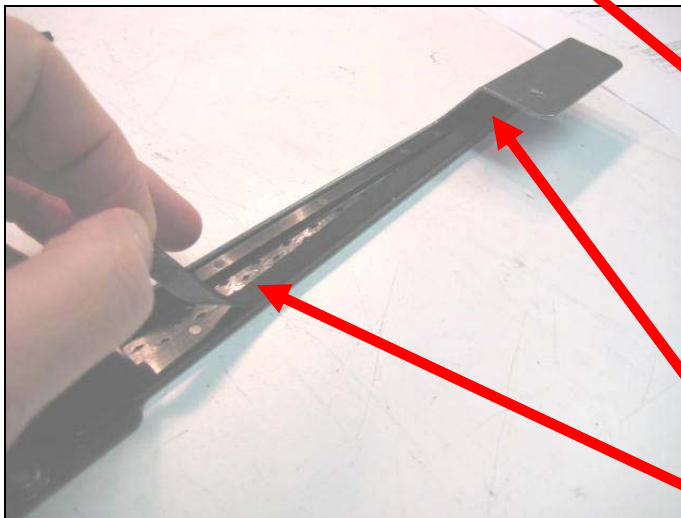
STEP 55b

P/N required:

2 each **30-63-0600-1** FOAM STRIP (A23-2) - OR -

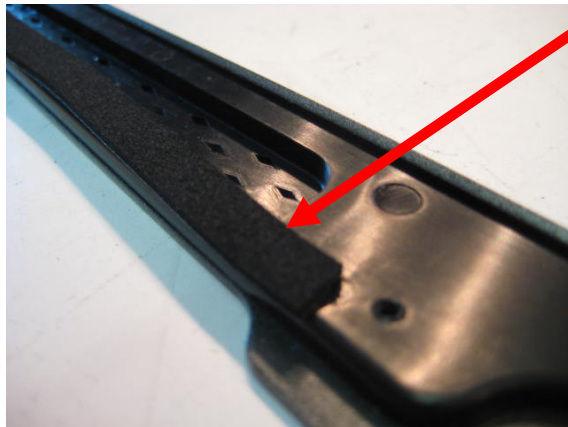
2 each **30-63-0600-3** FOAM STRIP (A23-3)

Apply 2 FOAM STRIPS to the back of the MESH approximately as shown.



Apply FOAM along
bottom edges of MESH

Apply FOAM here



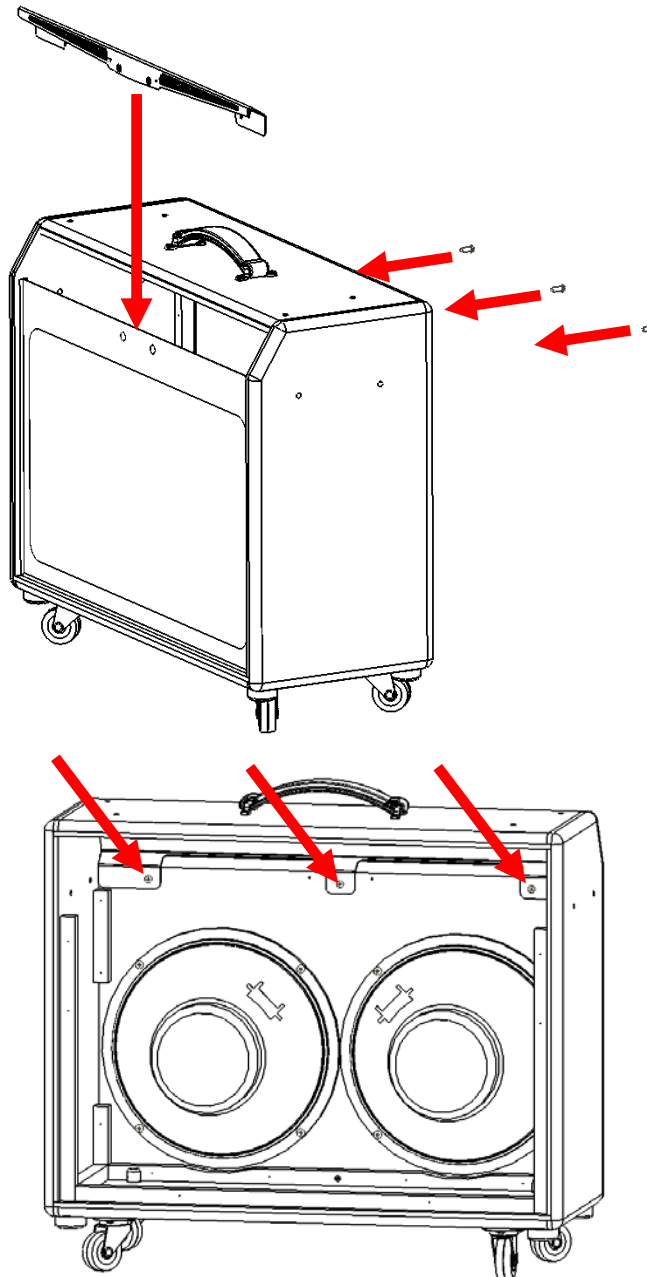
STEP 56

P/N required:

3 each **30-00-0858** SCREW #8 x 5/8"

Install the LOGO FRAME completely on the top of the baffle board of the CAB ASSY.

Torque SCREWS to 10 – 12 inch-pounds.



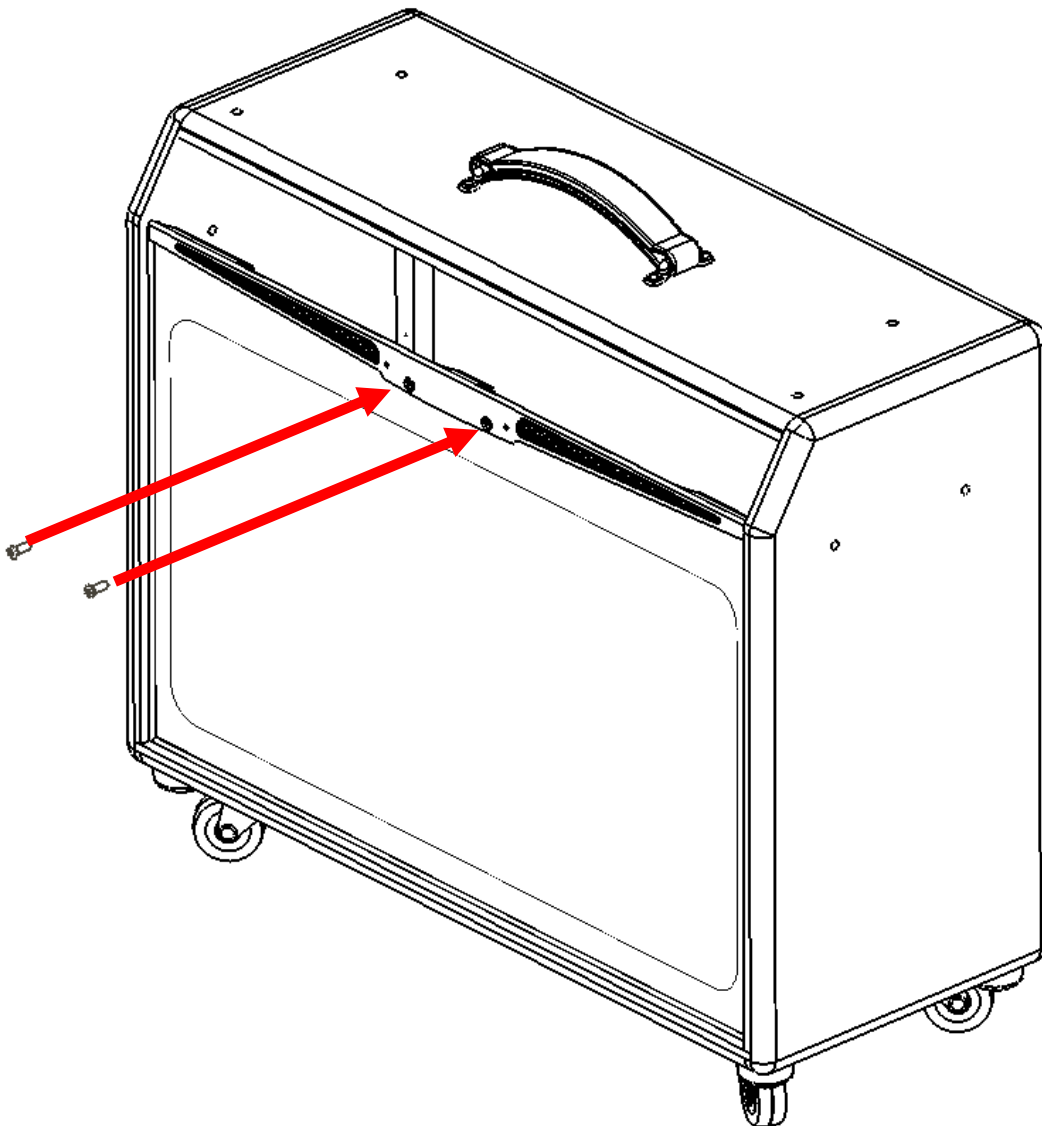
STEP 57

P/N required:

2 each **30-00-0676 SCREW #6 x 3/4"**

Turn SCREWS until fully seated.

Do not overtighten the SCREWS since this will deform the LOGO FRAME.



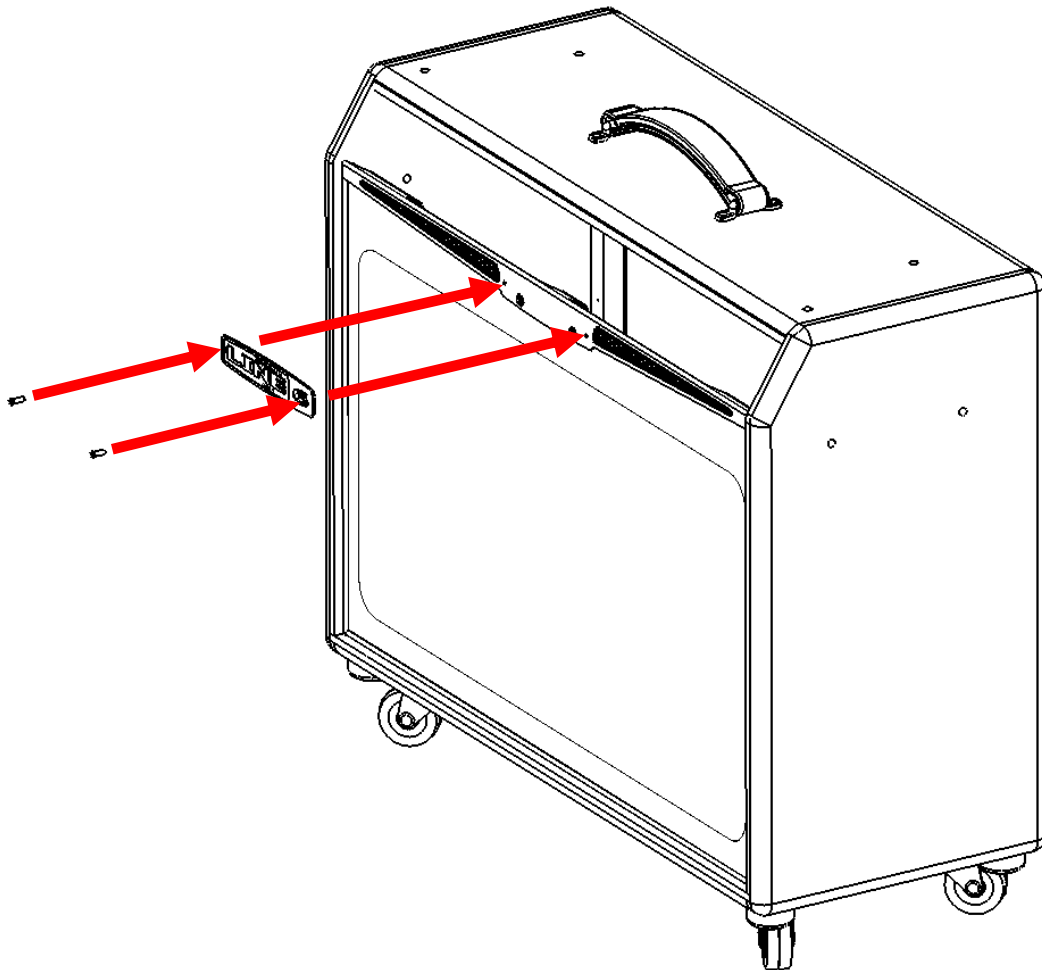
STEP 58

P/N required:

2 each **30-00-9358** SCREW #3 x 1/2"

1 each **30-60-0005** LOGO

Turn SCREWS until fully seated.



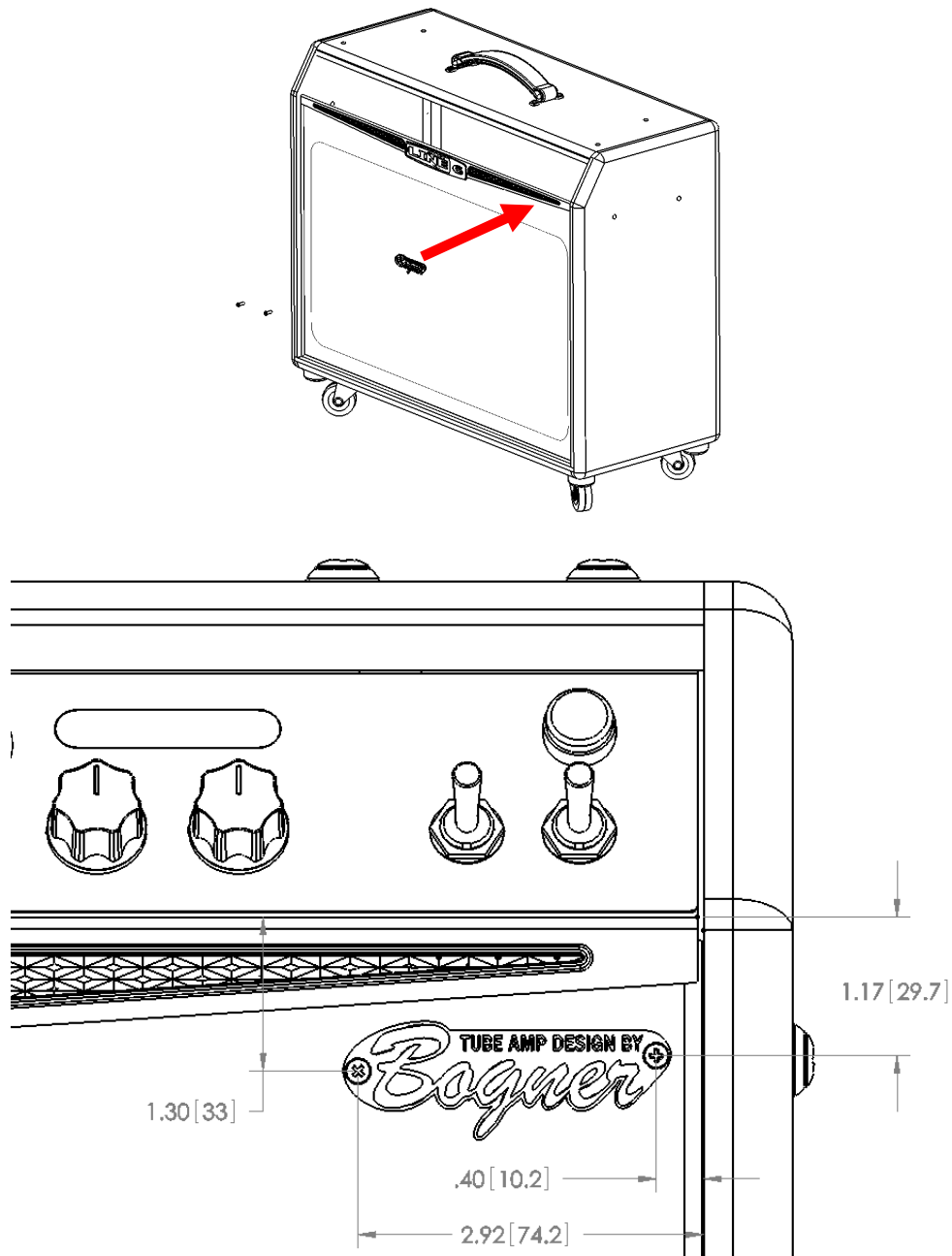
STEP 59

P/N required:

2 each **30-00-9358** SCREW #3 x 1/2"

1 each **30-27-0272** LOGO BOGNER

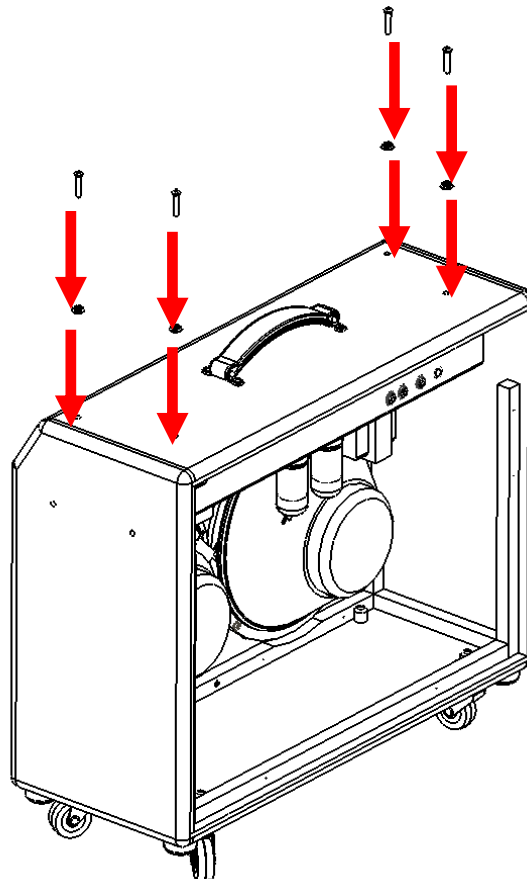
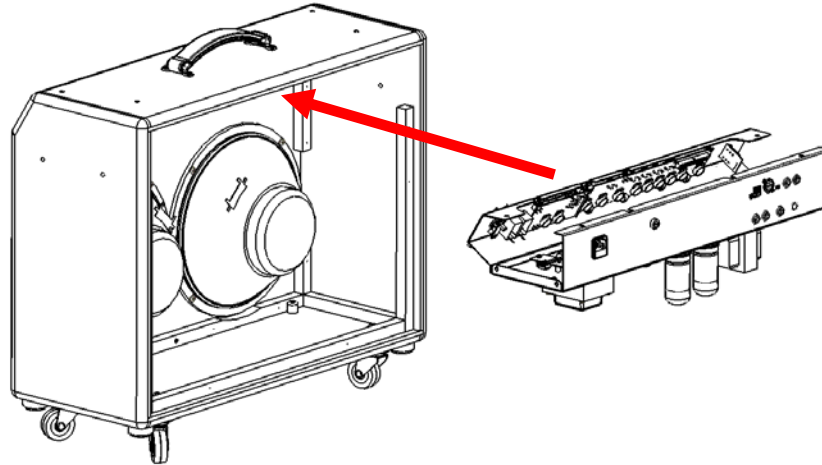
Locate the LOGO BOGNER on the cabinet grill cloth in the location shown. Turn SCREWS until fully seated.



STEP 60

4 each **30-00-1129** SCREW 10-32 x 1 ¼" OVAL BLK w/PILOT TIP
4 each **30-03-0112** FINISHING WASHER #10

Torque SCREWS to 10 – 12 inch-pounds.



STEP 61

P/N required:

1 each **21-34-0098-1 (A23-2)** or **21-34-0098-3 (A23-3)** SPEAKER CABLE

Plug the 1/4" plug from the SPEAKER CABLE into the 1/4" jack labeled "A" on the back panel of the CHASSIS.

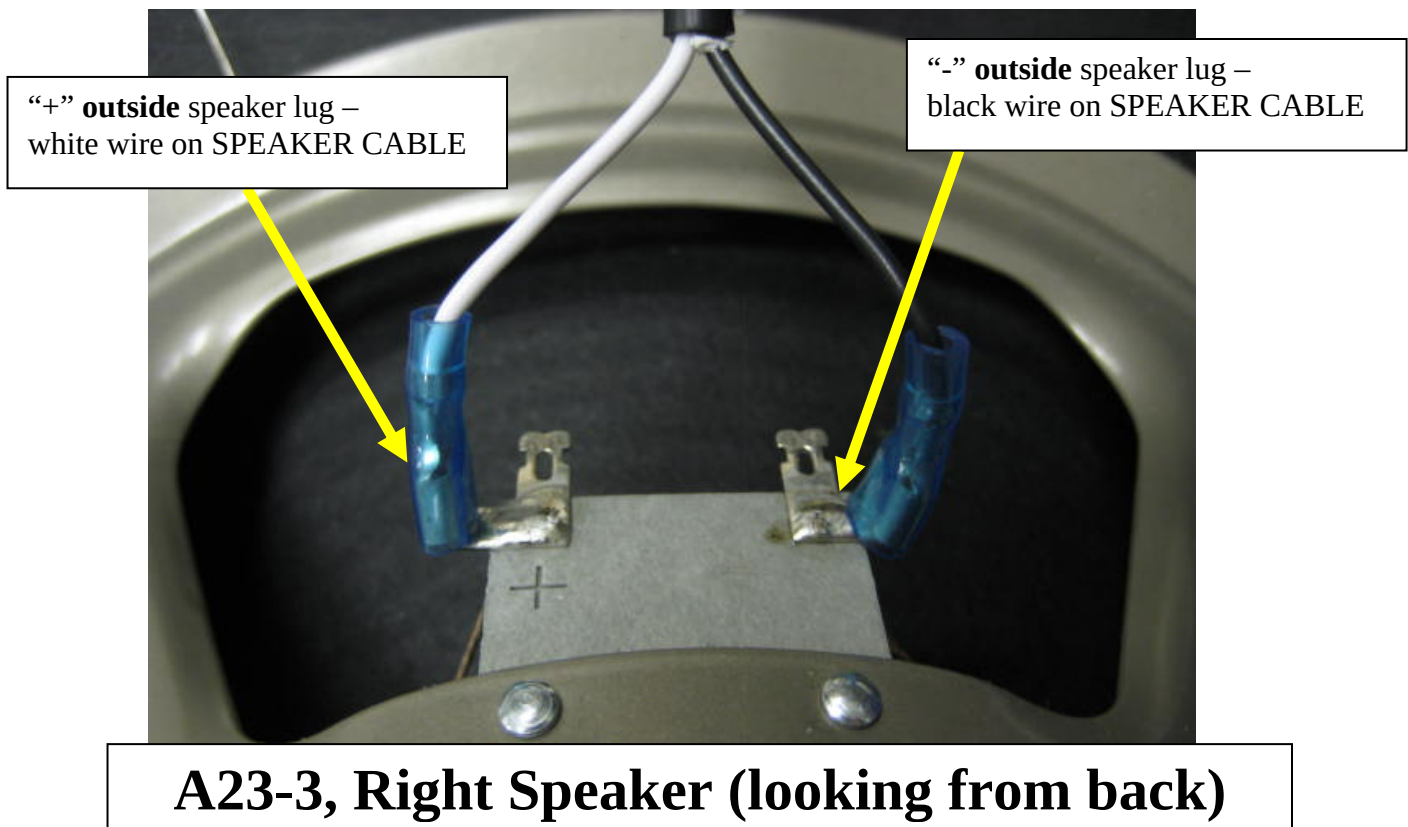
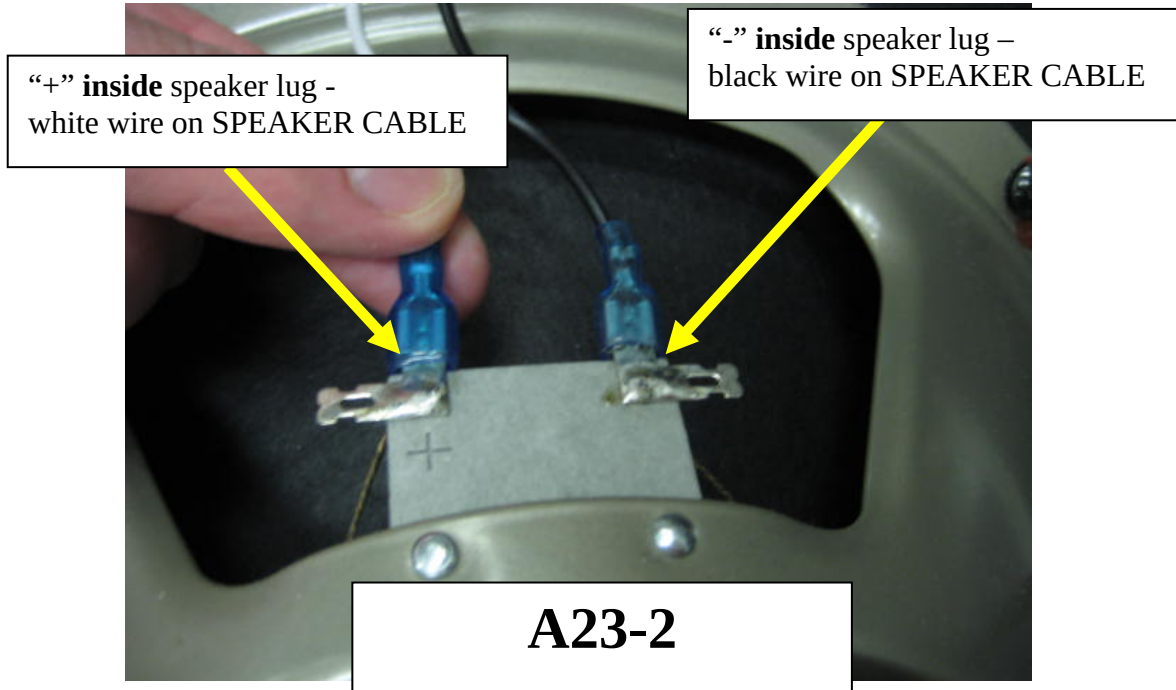
Plug the Fast-on connectors from the SPEAKER CABLE onto the speaker lugs. Be sure to connect the correct wire to the correct lug.



1/4" jack labeled
"A"

(Step 61 is continued on the next page.)

STEP 61 (continued)



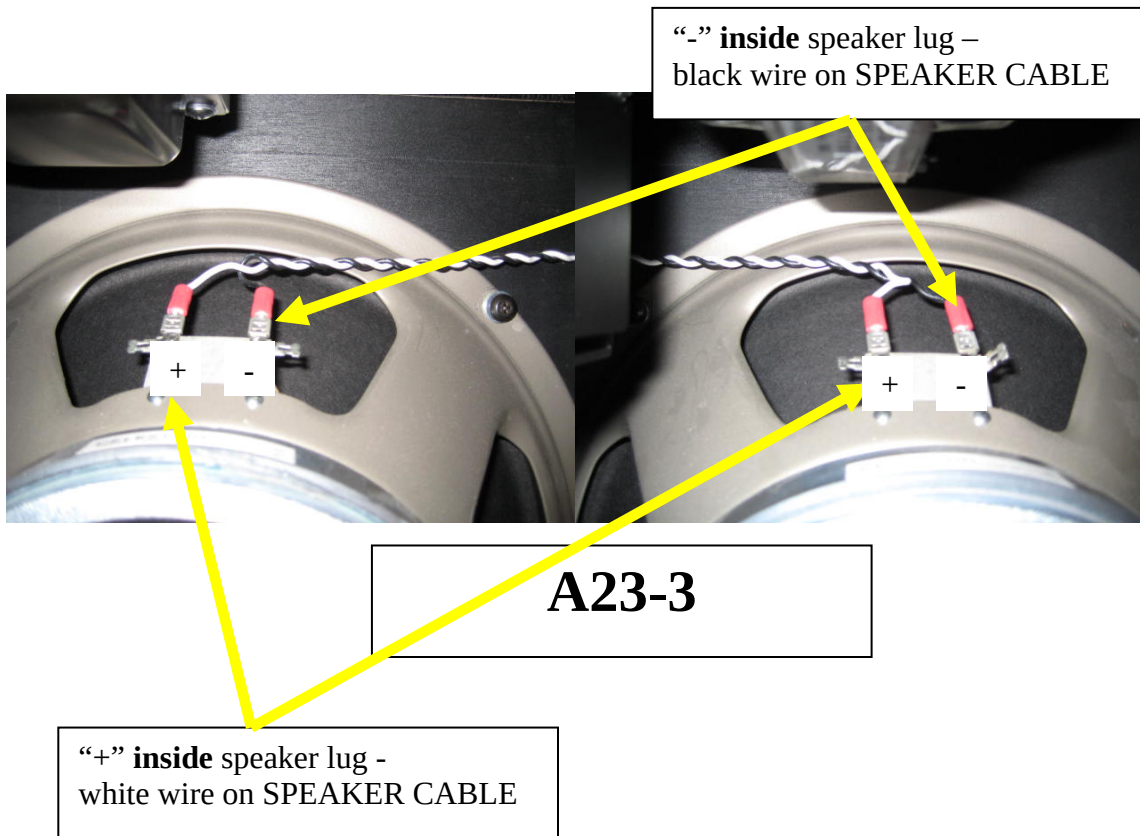
STEP 62 (A23-3 ONLY)

P/N required:

1 each **21-34-0266-2** TWISTED CABLE

Connect the TWISTED CABLE to the speaker lugs as shown.

Note: The SPEAKER CABLE is not shown for clarity.



STEP 63 (A23-3 ONLY)

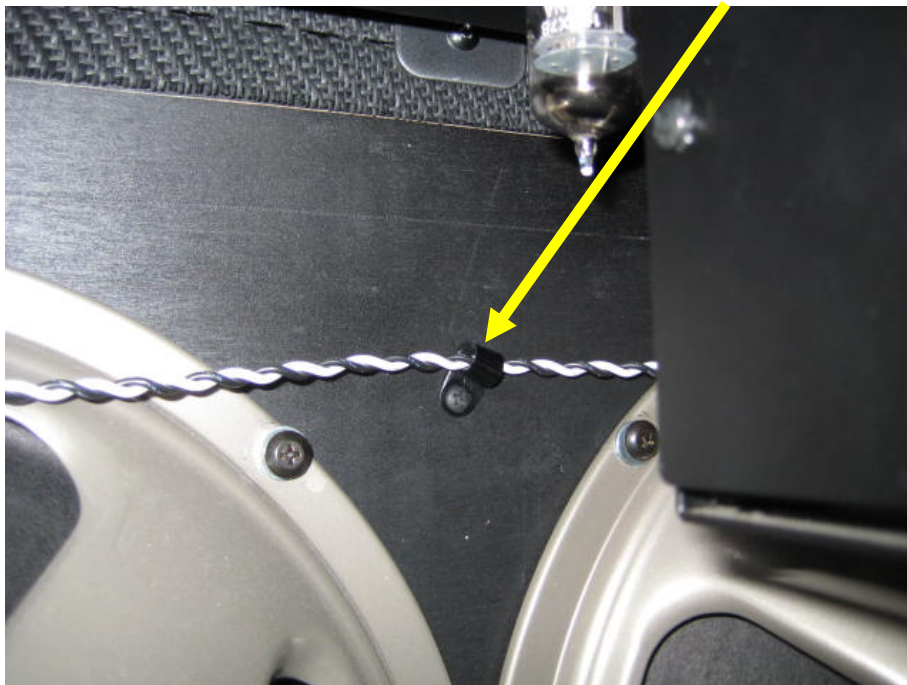
P/N required:

1 each **30-21-0007** STRAIN RELIEF

1 each **30-00-0812** SCREW #8 x 0.75 BLK

Insert the **21-34-0266-2** TWISTED CABLE through the STRAIN RELIEF as shown.

Secure the STRAIN RELIEF to the baffle using the SCREW. Position approximately as shown. Torque screw to 8 – 10 inch-pounds.



STEP 64 (A23-2 ONLY)

P/N required:

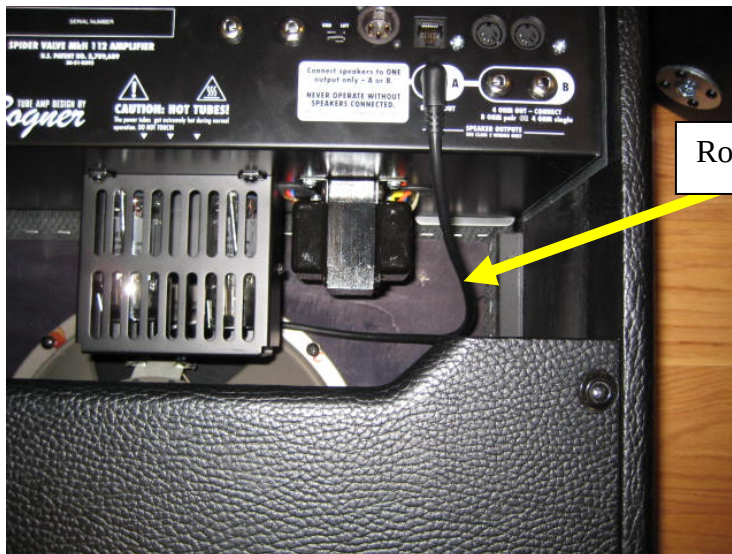
1 each **30-21-0007** STRAIN RELIEF

1 each **30-00-0812** SCREW #8 x 0.75 BLK



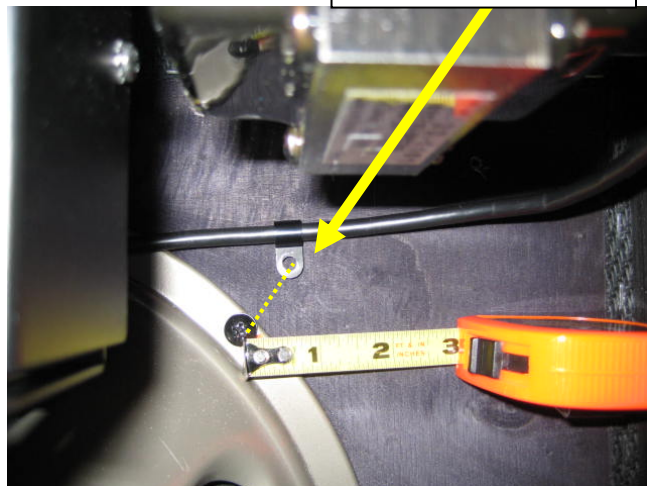
Route the **21-34-0098-1** speaker cable through the STRAIN RELIEF as shown.

Secure the STRAIN RELIEF to the baffle using the SCREW. Position approximately as shown. Turn SCREW until fully seated.



Route cable as shown

Secure STRAIN RELIEF approximately 35mm diagonally from top right speaker screw



STEP 65 (A23-2 ONLY)

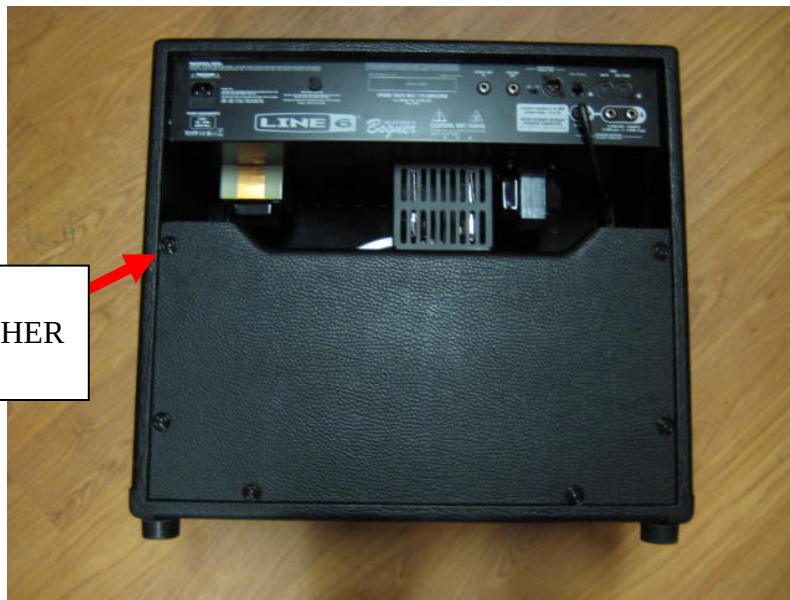
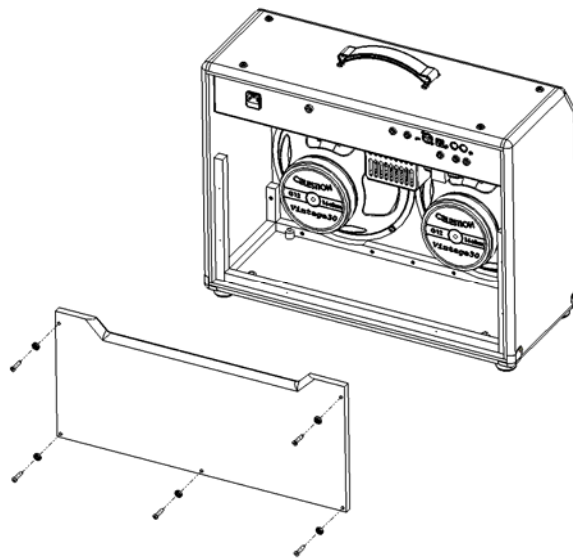
P/N required:

6 each **30-00-0253 SCREW WOOD #10 x 30mm OVAL HEAD STEEL BLK OXIDE**

6 each **30-03-0112 FINISHING WASHER #10**

1 each **KICK BOARD** (included with CAB ASSY)

Install KICK BOARD as shown and secure to the cabinet using six SCREWS and FINISHING WASHERS. Turn SCREWS until fully seated.



SCREW and
FINISHING WASHER
6 PL

STEP 66 (A23-3 ONLY)

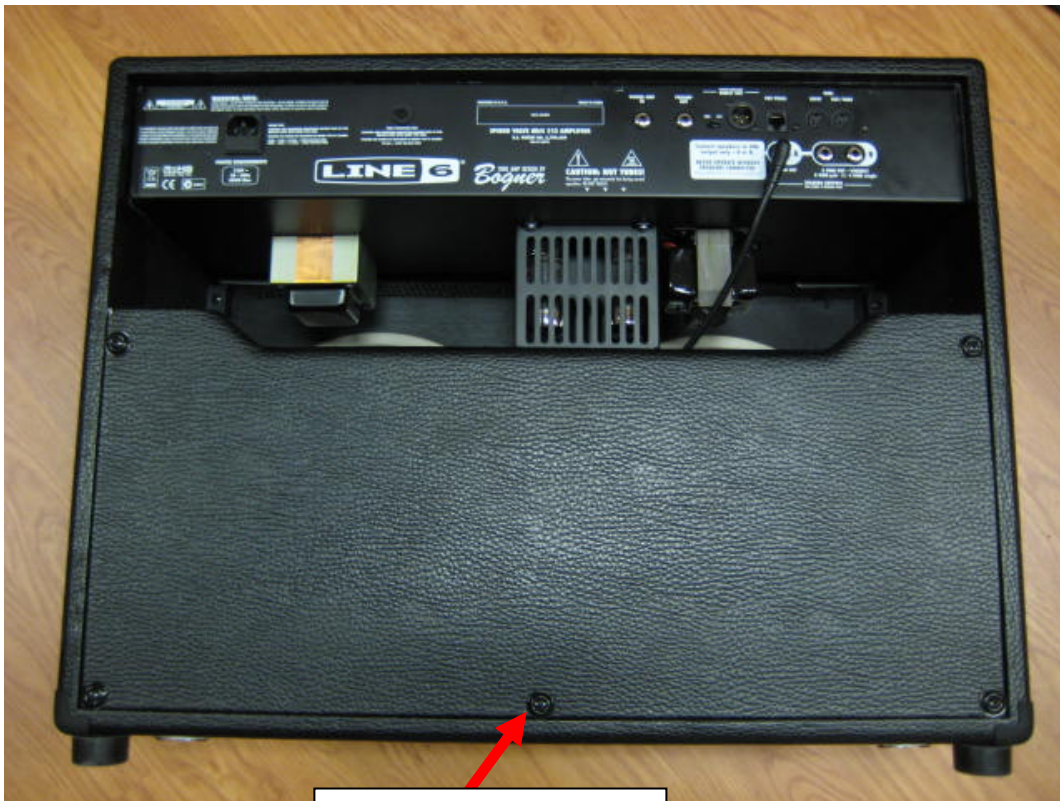
P/N required:

5 each **30-00-0253 SCREW WOOD #10 x 30mm OVAL HEAD STEEL BLK OXIDE**

5 each **30-03-0112 FINISHING WASHER #10**

1 each **KICK BOARD** (included with CAB ASSY)

Install KICK BOARD as shown and secure to the cabinet using five SCREWS and FINISHING WASHERS. Turn SCREWS until fully seated.

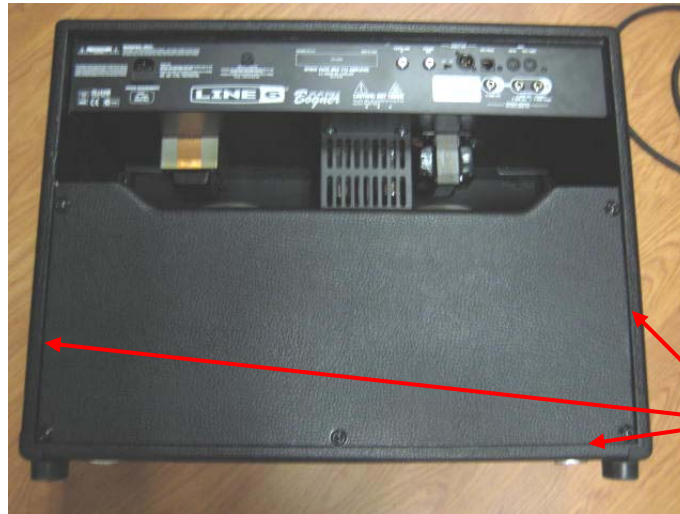


SCREW and
FINISHING WASHER
5 PL



STEP 67

Inspect gap between KICK BOARD and the side and bottom panels. GAP should be uniform and minimized all around. See images below. If this inspection is not passed, please address with the cabinet vendor.



Gap too large
NOT ACCEPTABLE.
BAD.

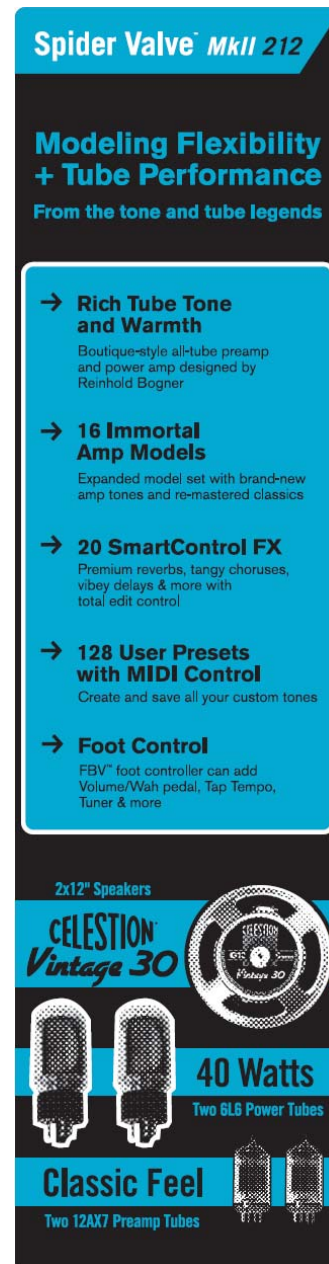
Gap minimized.
ACCEPTABLE. GOOD.



STEP 68

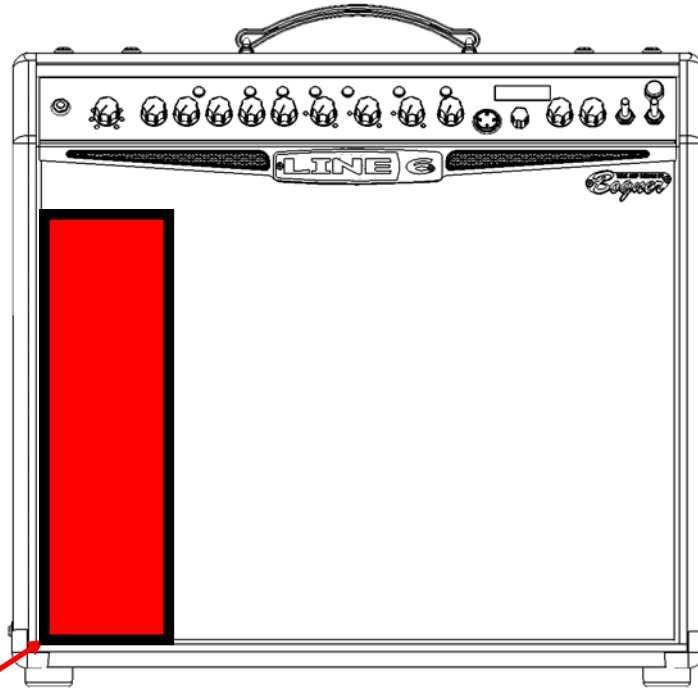
- 1 each **40-25-0197** STICKER SPEAKER-GRILL PROMO SV MKII 112 A23-2
- 1 each **40-25-0198** STICKER SPEAKER-GRILL PROMO SV MKII 212 A23-3

Install promo sticker to the front of the unit in the location shown. Align the lower left corner of the STICKER with the lower left corner of the cabinet baffle.

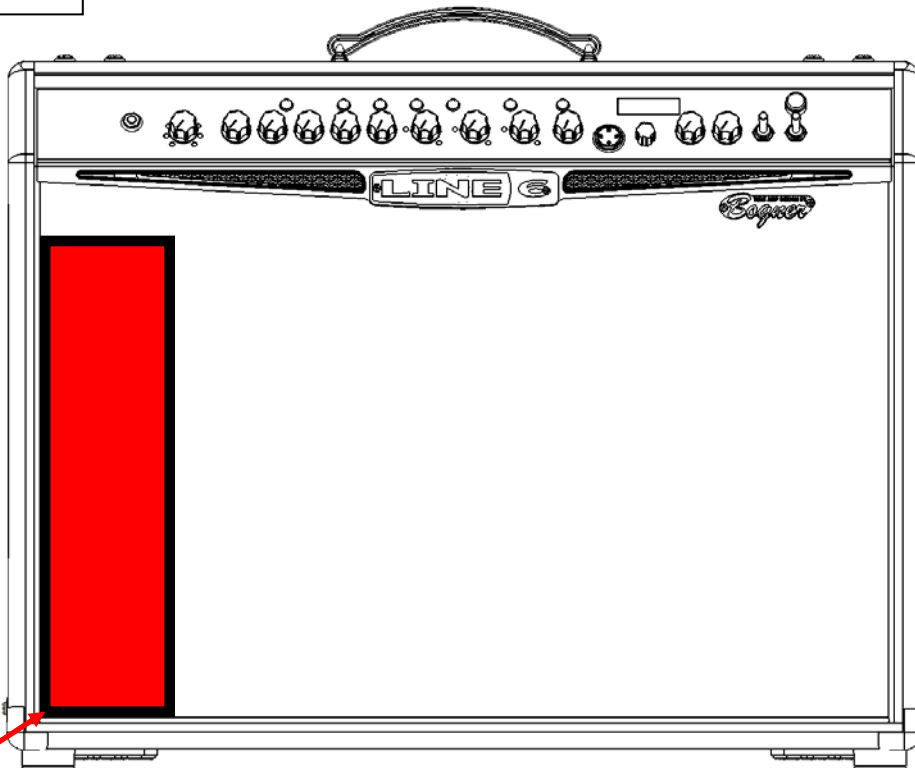




STEP 68 CONT'D



Align Corners

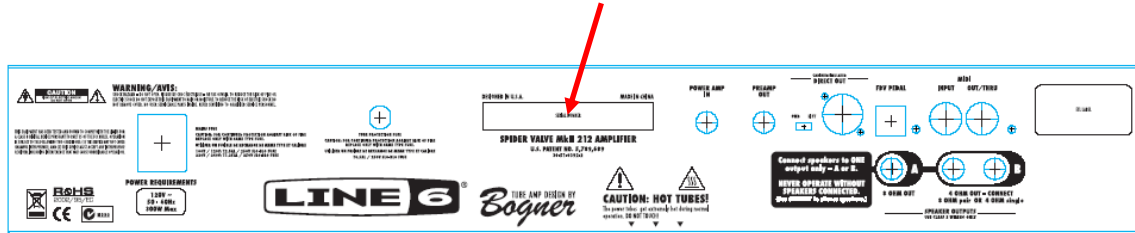


Align Corners

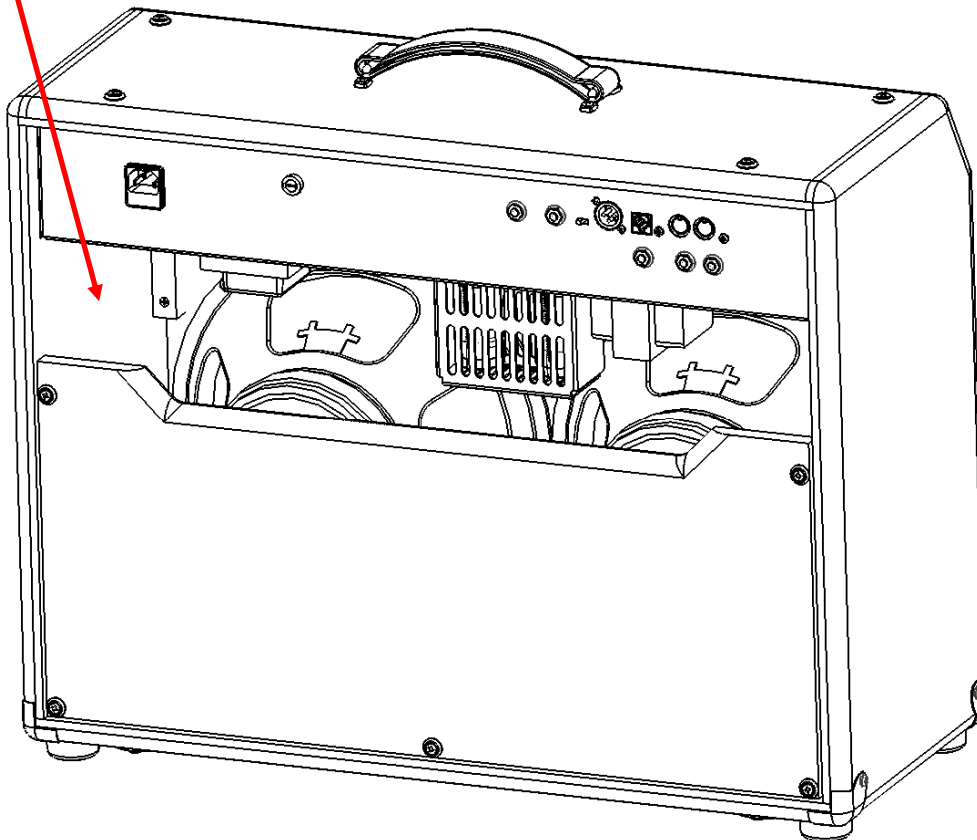
STEP 69

1 each **40-25-0100** LABEL BAR CODE SERIAL NUMBER 4-PANEL

Apply bar code serial number label (P/N 40-25-0100) to rear of chassis and cabinet side panel as shown.



Apply to side panel in this approximate area

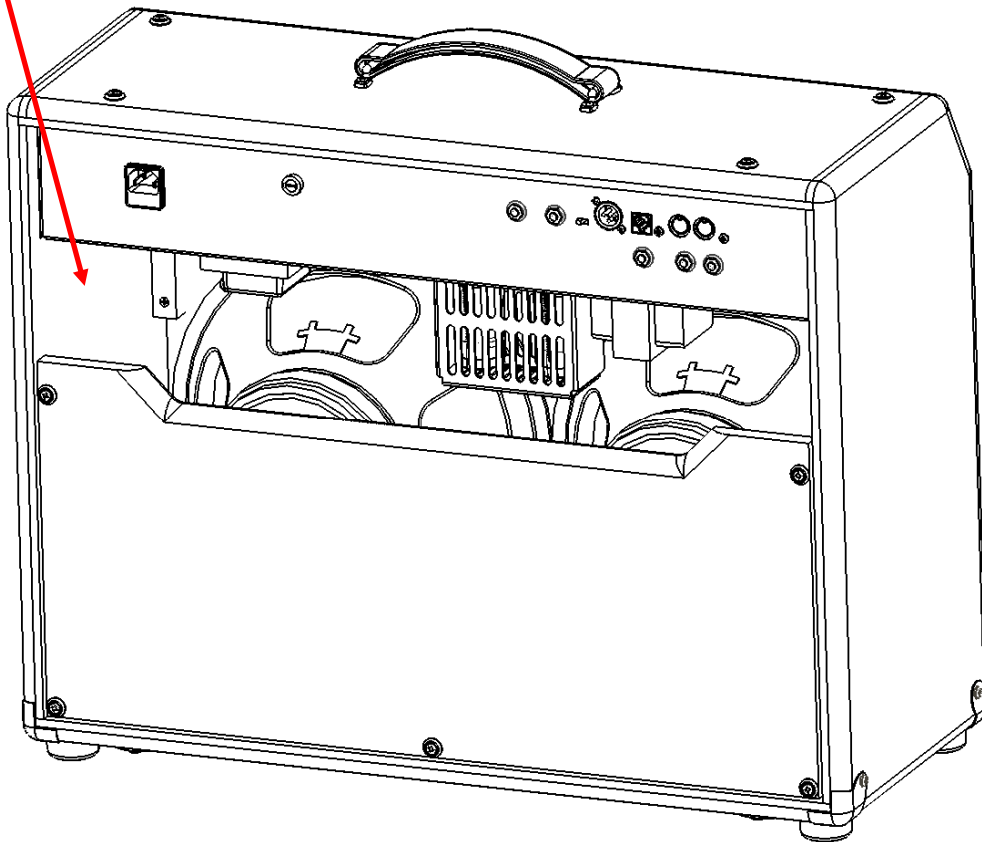


STEP 70

Inspection – confirm that the cabinet vendor CARB-COMPLIANT label has been applied to the inside cabinet side panel as shown.

Note – there is no Line 6 part number for the CARB-COMPLIANT label.

Confirm the cabinet
CARB-COMPLIANT
label has been placed
here





STEP 71

P/N required:
1 each **ETL LABEL**

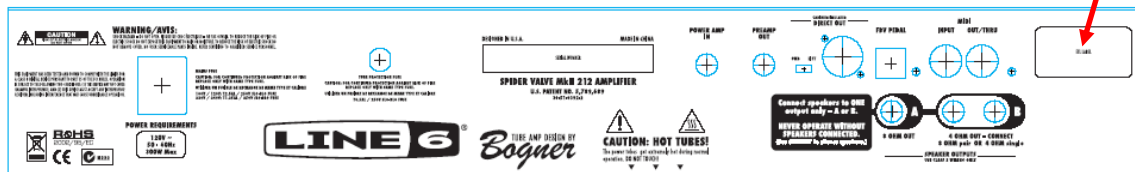
Note – Line 6 must complete all safety certification testing before the ETL label can be applied. Do not apply ETL label until an ECO has been issued to add the label.

Apply **ETL LABEL** to rear of chassis. Position as shown below.

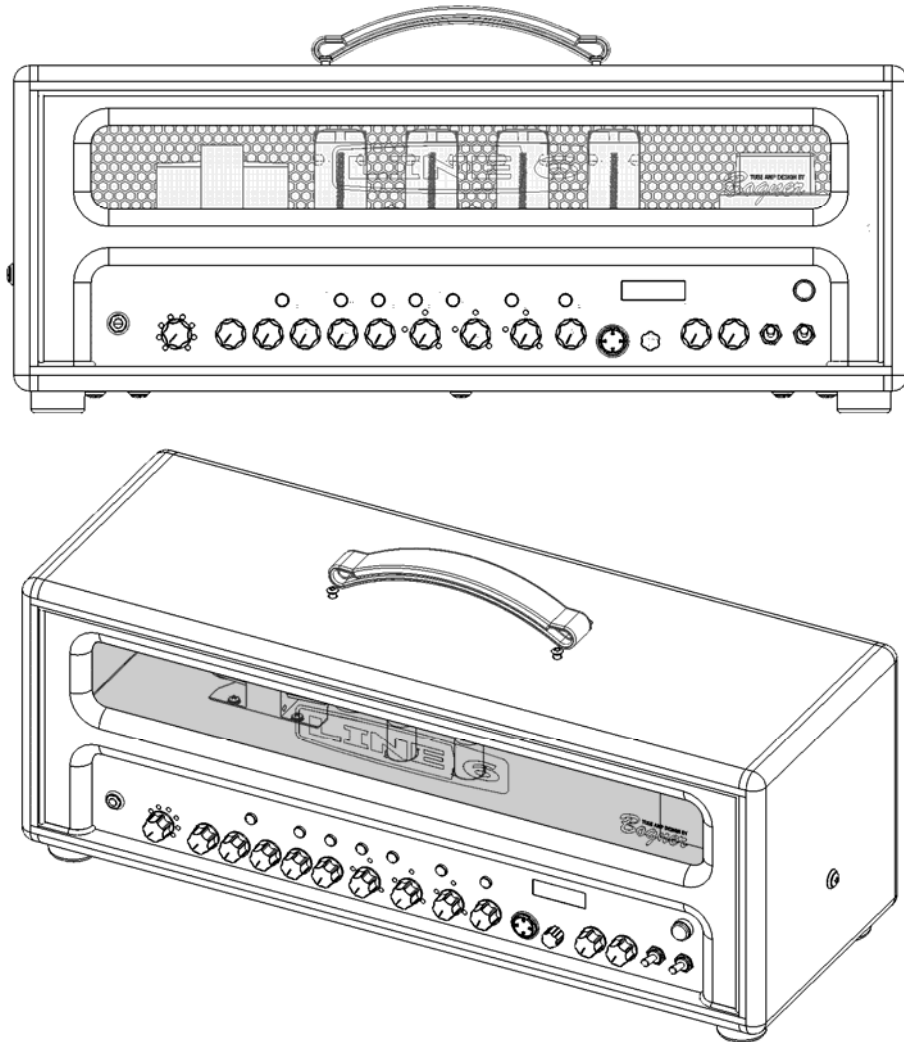
On the SV40 (A23-2):



On the SV50 (A23-3):



Assembly of the SV MkII Combo (A23-2, -3) Complete Unit is now complete.



Forward and Notes

The information in this booklet applies to the SV Mark II Head (A23-4) Complete Unit. It is suggested that the steps for assembly follow the order presented in these instructions.

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.
- 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.



Revision Comment Sheet

Revision	Changes
A	ECO 0000642. Initial release.
B	ECO 0001222. Step 10 – Added loctite application.

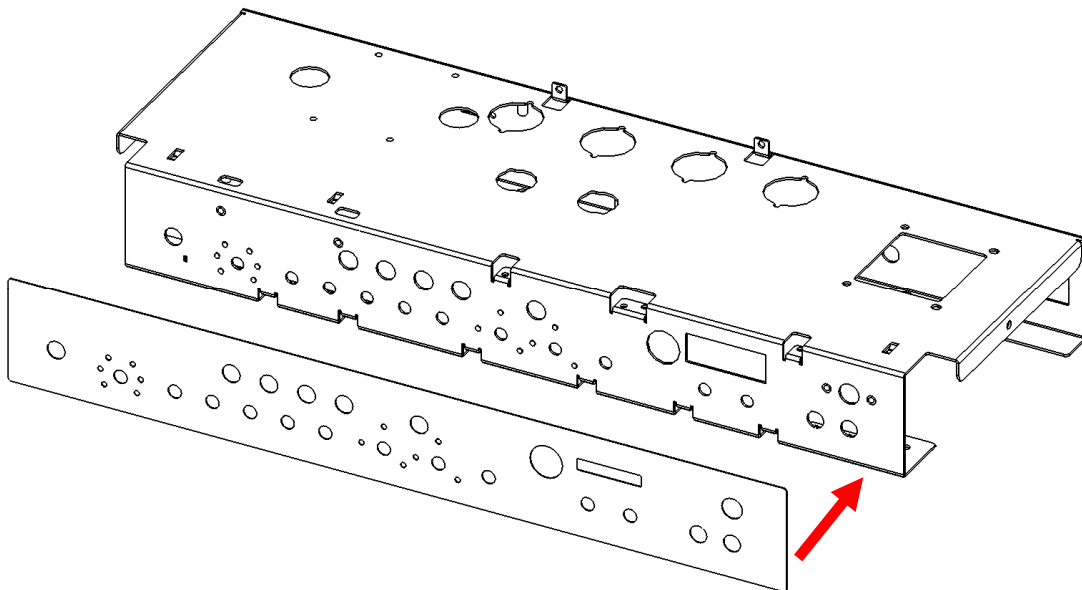
STEP 1

P/N required:

1 each **30-51-0394** CHASSIS HD A23-4

1 each **30-42-0065** OVERLAY

Remove the protective backing from the UI OVERLAY and press it into place on the CHASSIS face as shown. Care shall be taken to align the UI OVERLAY with edges and cutouts on the CHASSIS face.

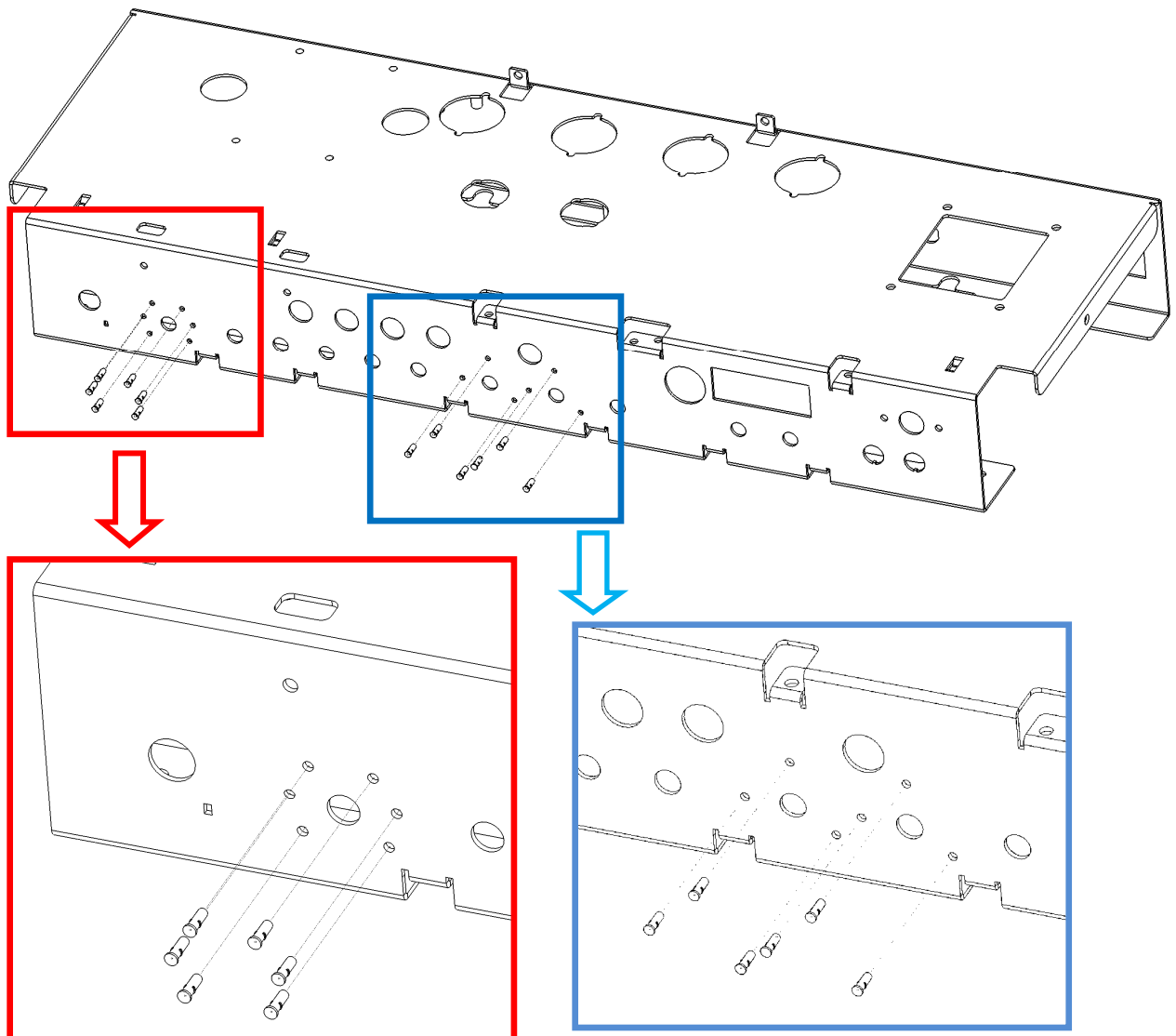


STEP 2

P/N required:

17 each **30-27-0277** SMALL LIGHT PIPE

Insert the SMALL LIGHT PIPES into the 17 small holes as shown.

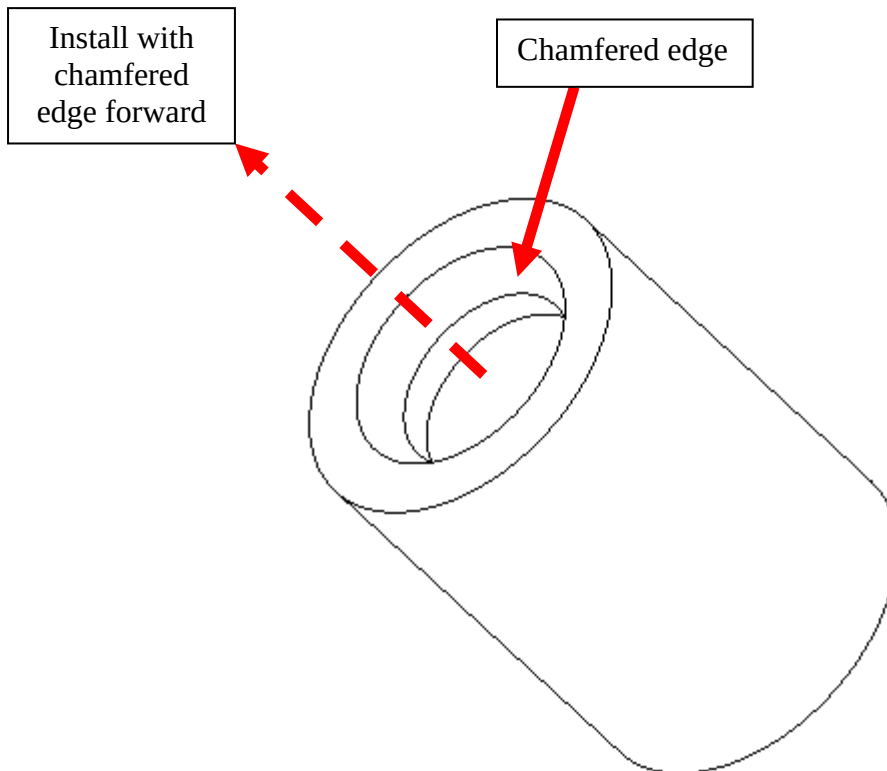


STEP 3

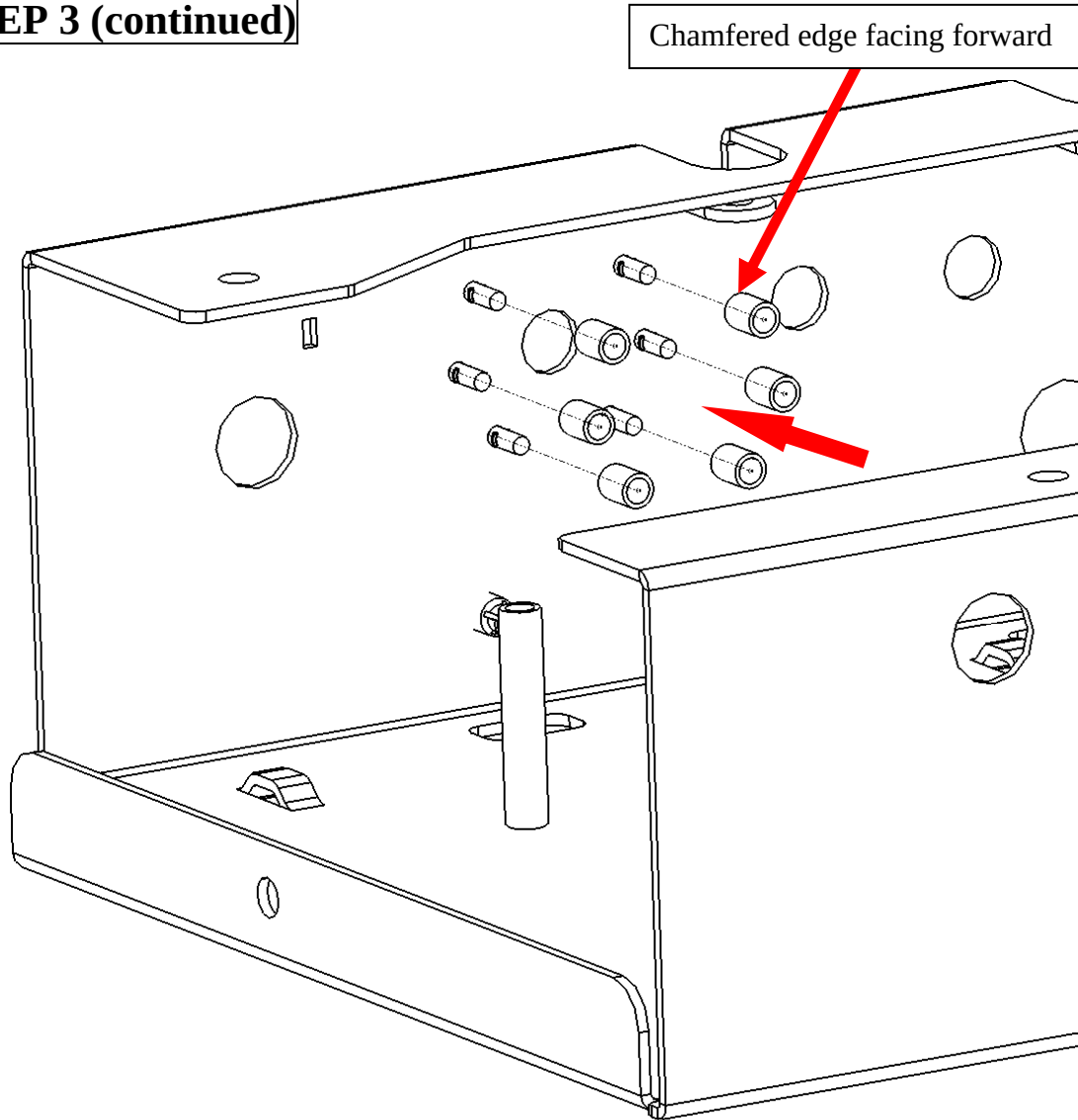
P/N required:

17 each **30-27-0278** SHIELD LIGHT PIPE .19 DIA x .2 6 LG ABS BLK

Install one SHIELD LIGHT PIPE over each SMALL LIGHT PIPE. Push the SHIELD LIGHT PIPE until it snaps onto the SMALL LIGHT PIPE.

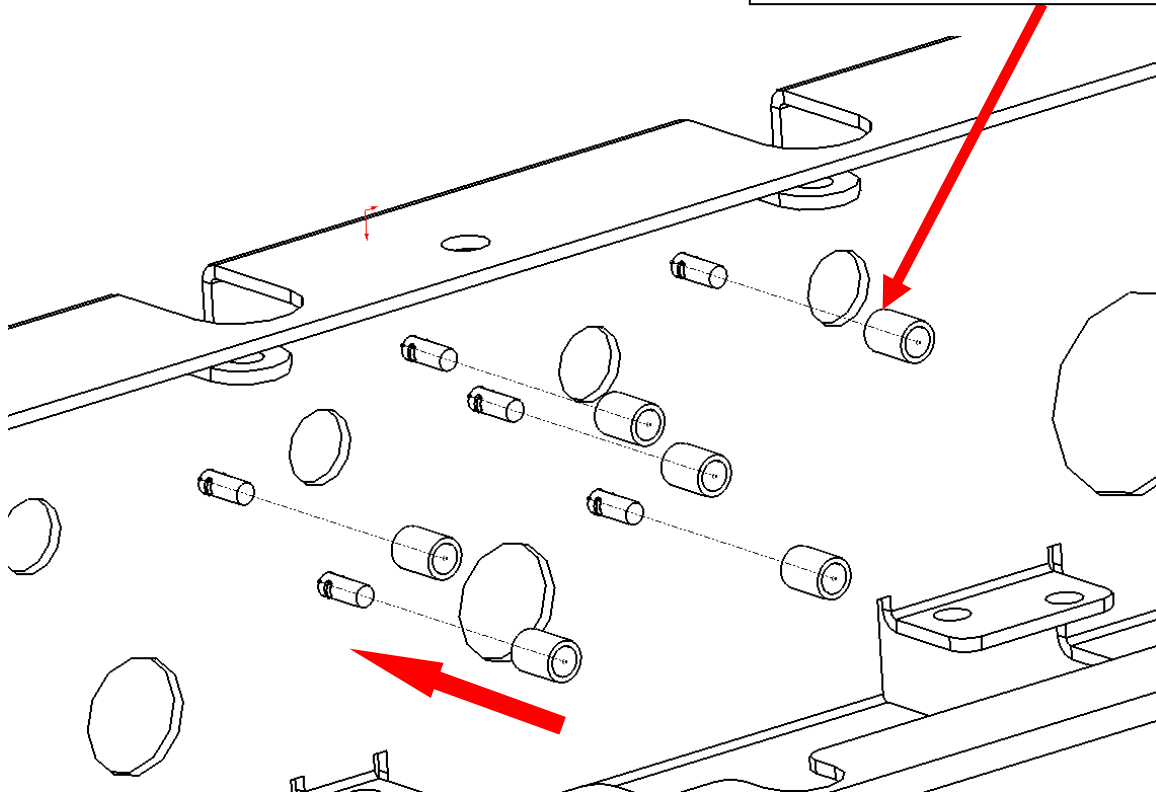


STEP 3 (continued)



STEP 3 (continued)

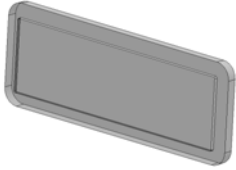
Chamfered edge facing forward



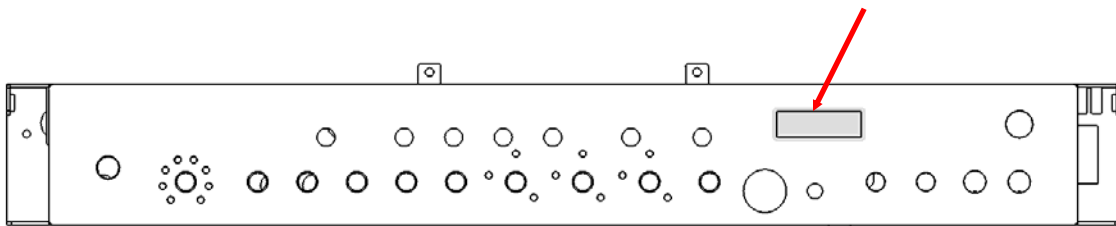
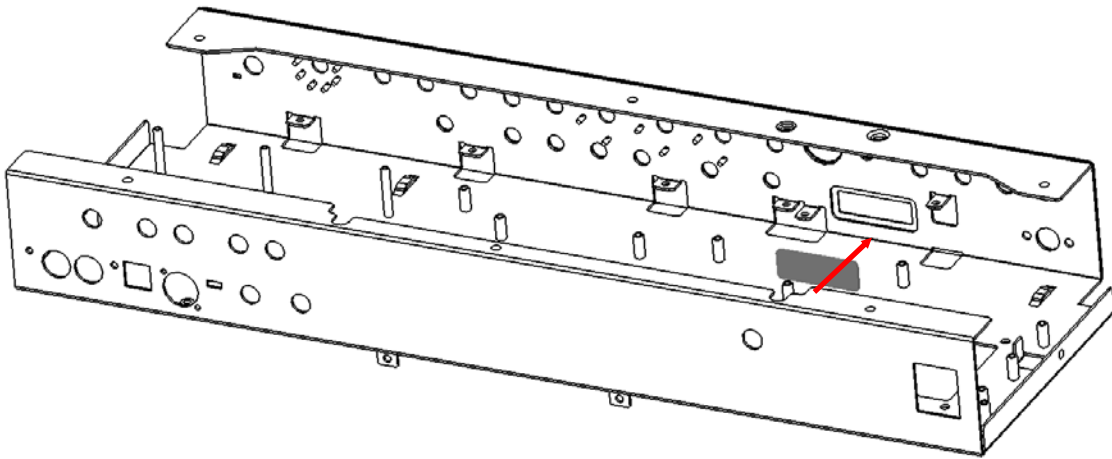
STEP 4

P/N required:

1 each **30-27-0410** BEZEL LCD



Insert the BEZEL LCD as shown. The BEZEL shall stick to the adhesive on the OVERLAY.

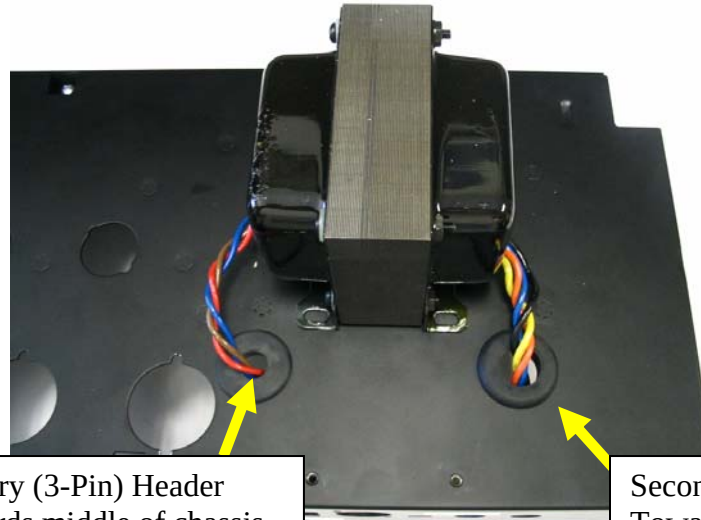


STEP 5

P/N required:

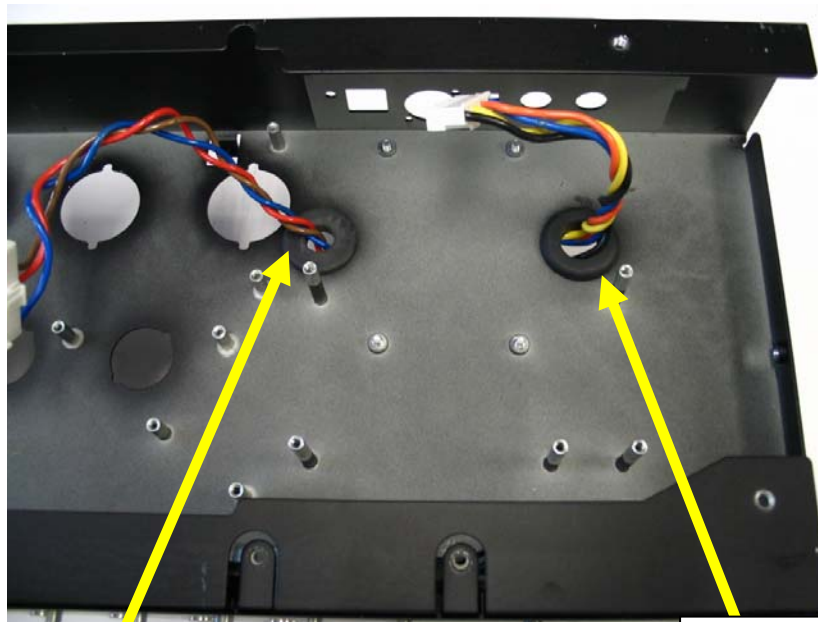
1 each **11-33-0018** XFMR OUTPUT SV MKII A23-4

Pass the cables from the OUTPUT TRANSFORMER through the holes in the CHASSIS as shown. Install the RUBBER GROMMETS in the holes in the CHASSIS.



Primary (3-Pin) Header
Towards middle of chassis

Secondary (4-Pin) Header
Towards outside of chassis



Primary (3-Pin) Header
Towards middle of chassis

Secondary (4-Pin) Header
Towards outside of chassis

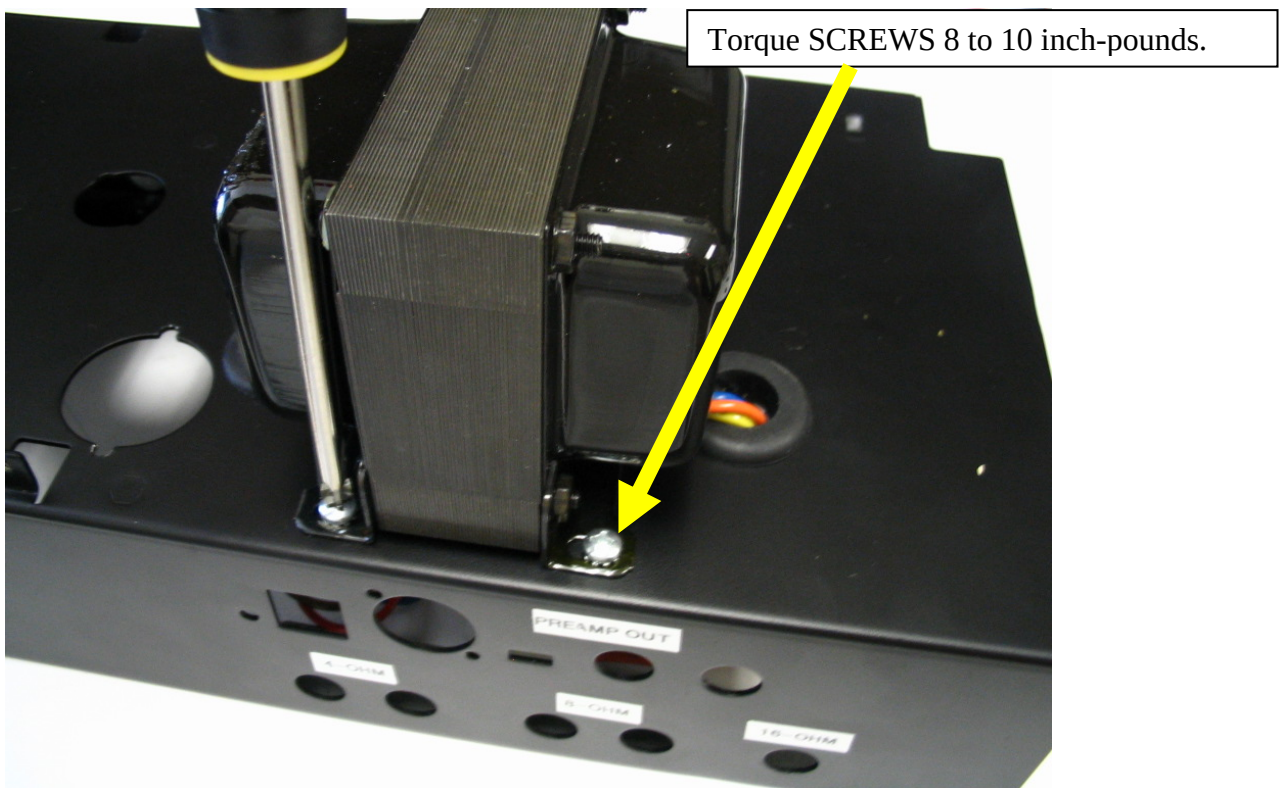
STEP 6

P/N required:

4 each **30-00-0226** SCREW 8-32 x 1/4 w/LK WASH BLK

Secure the OUTPUT TRANSFORMER to the chassis with 4 SCREWS.

Torque the SCREWS to 8 – 10 inch-pounds.



STEP 7

P/N required:

1 each POWER TRANSFORMER (see Table 1)

4 each **30-06-0832** HEX NUT 8-32 WITH STAR WASHER

Torque NUTS to 8 – 10 inch-pounds. Apply loctite to each hex nut. Align the POWER TRANSFORMER such that the cables are located as shown.

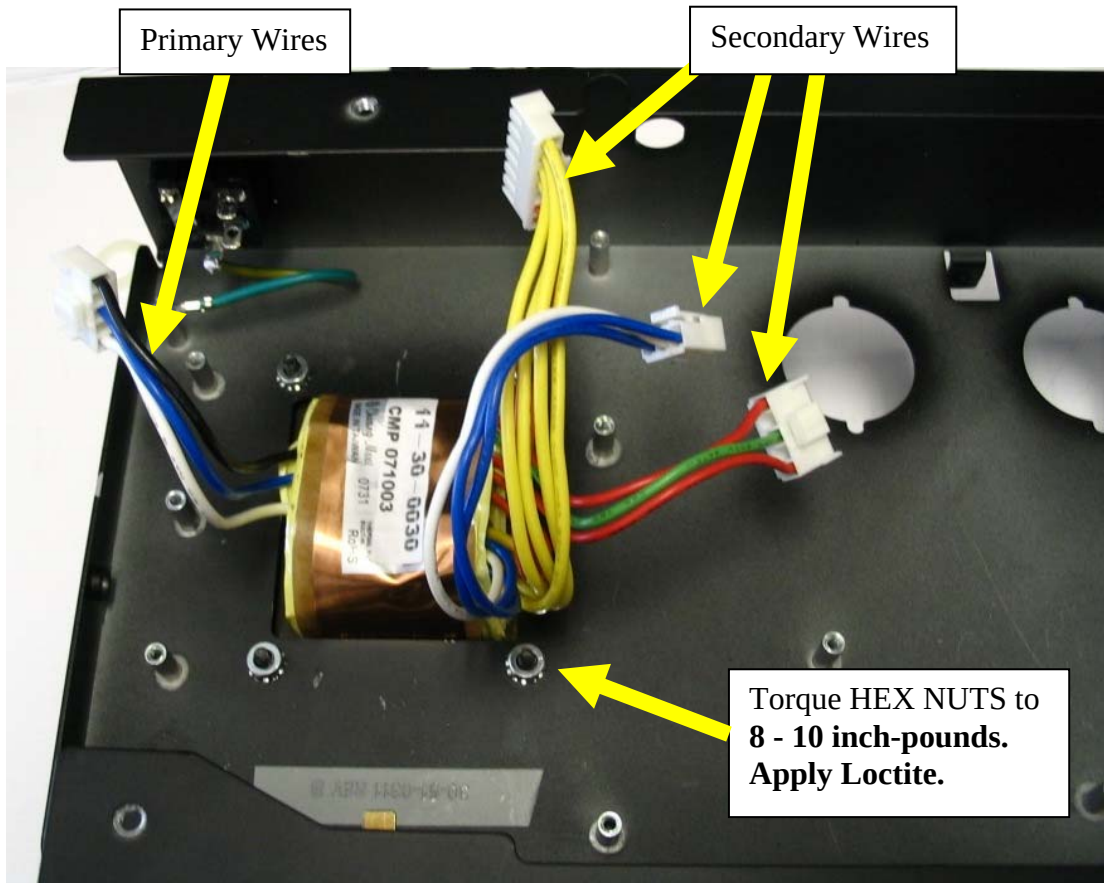
Table 1

AC Voltage	POWER TRANSFORMER part number
100 VAC (JA)	11-30-0030
120 VAC (US)	11-30-0030
240 VAC (AU, UK, EU)	11-30-0031



(Step 7 is continued on the next page.)

STEP 7 (continued)



STEP 8

P/N required:

1 each **50-00-0001** AC RECEPTACLE ASSEMBLY

1 each **30-00-0043** SCREW 6-32 x 5/16" WITH STAR WASHER

Secure the cable from the AC RECEPTACLE ASSEMBLY to the threaded insert shown with a SCREW 6-32 x 5/16" WITH STAR WASHER. Torque SCREW to 8 – 10 inch-pounds and apply loctite. The cable from the AC RECEPTACLE ASSEMBLY shall be installed completely within the CHASSIS.



Torque SCREW to 8 – 10 inch-pounds. Apply Loctite.



STEP 9

P/N required:

1 each Fuse (**see Table 2**)

Open and remove fuse holder. Install correct fuse value. Install fuse holder back into AC receptacle.

Table 2

AC Voltage	FUSE part number
100 VAC (JA)	24-19-0500 (5A/250V)
120 VAC (US)	24-19-0500 (5A/250V)
240 VAC (AU, UK, EU)	24-19-0250 (2.5A/250V)

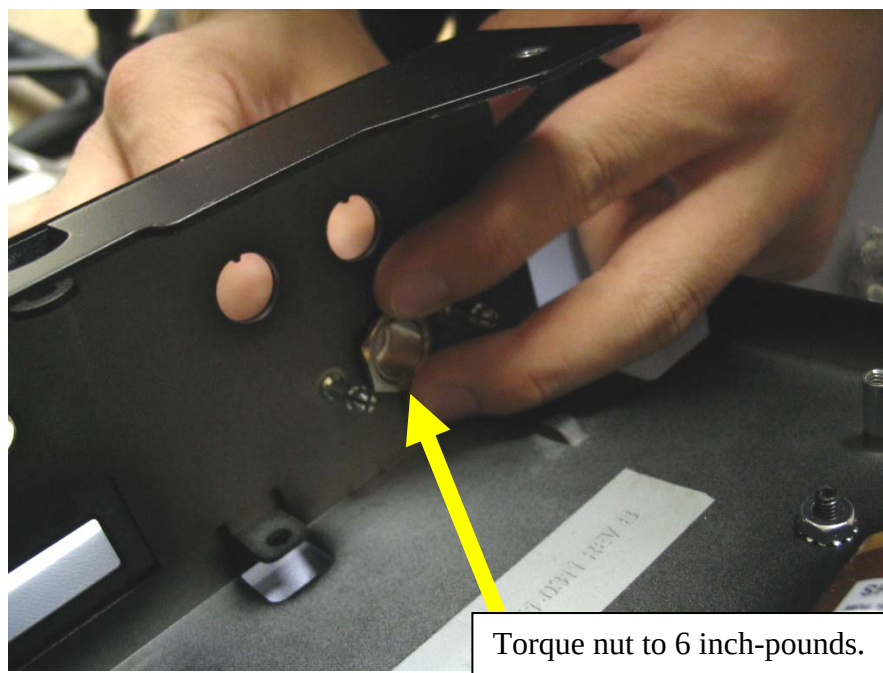


STEP 10

P/N required:

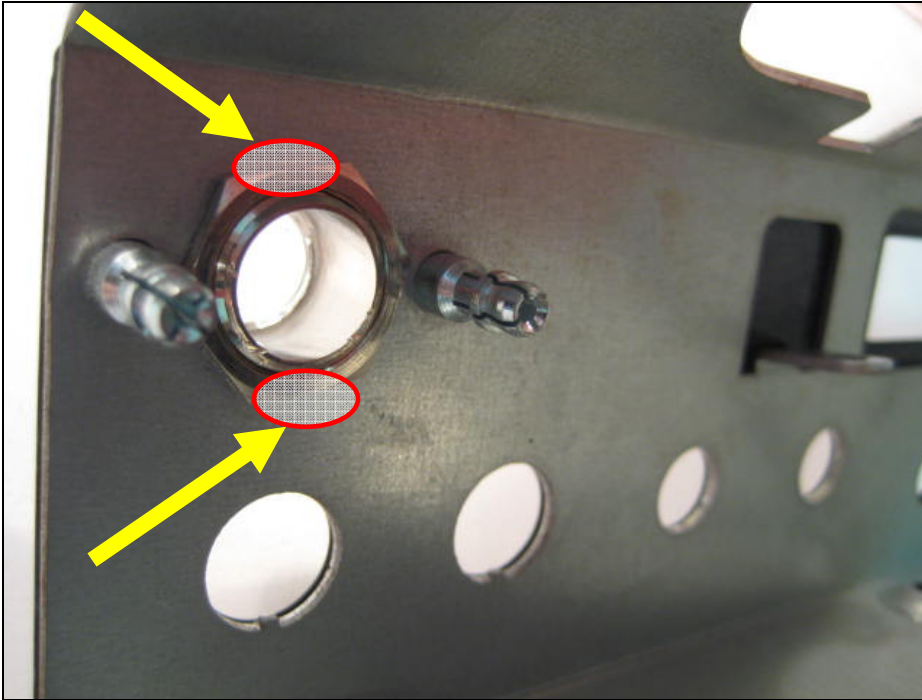
1 each **30-51-0113 JEWEL LENS WITH NUT**

Install Lens from front. Thread lens into nut. Torque nut to 6 inch-pounds.



STEP 10 CONT'D

After torque has been verified, apply two (2) drops of loctite in the approximate locations:



STEP 11

P/N required:

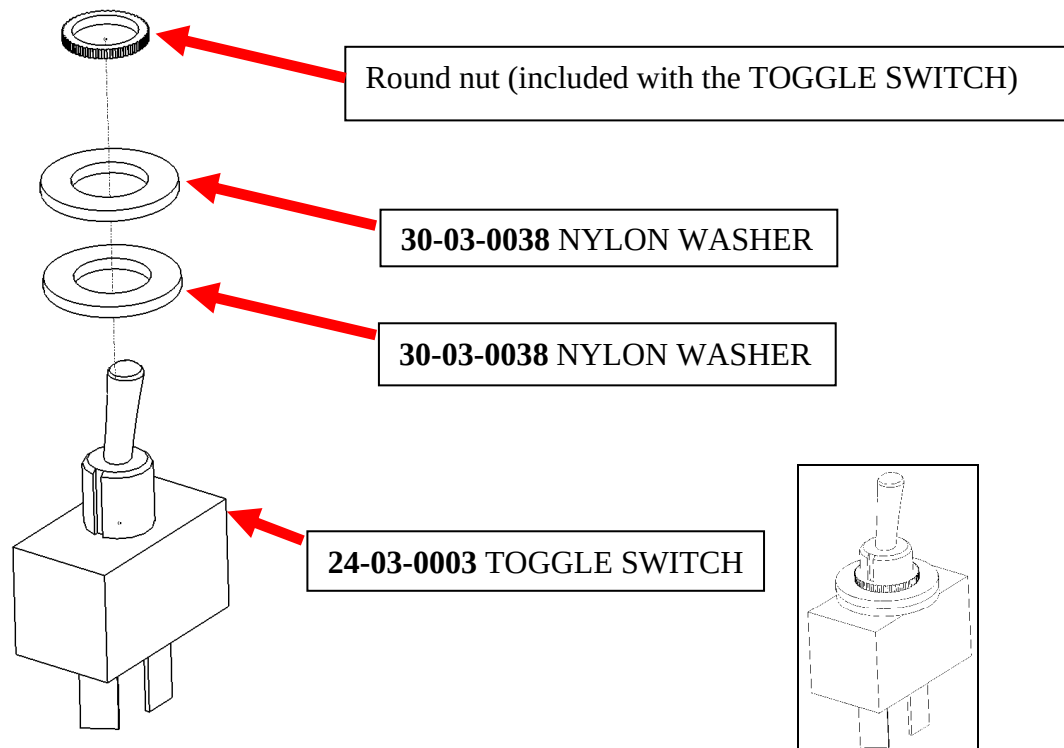
2 each **24-03-0003** TOGGLE SWITCH

4 each **30-03-0038** NYLON WASHER

Remove the hex nut from each of the TOGGLE SWITCHES. Slide two NYLON WASHERS onto the threaded barrel of each TOGGLE SWITCH. Finger-tighten the round nut onto the threaded barrel of each TOGGLE SWITCH to secure the two NYLON WASHERS.

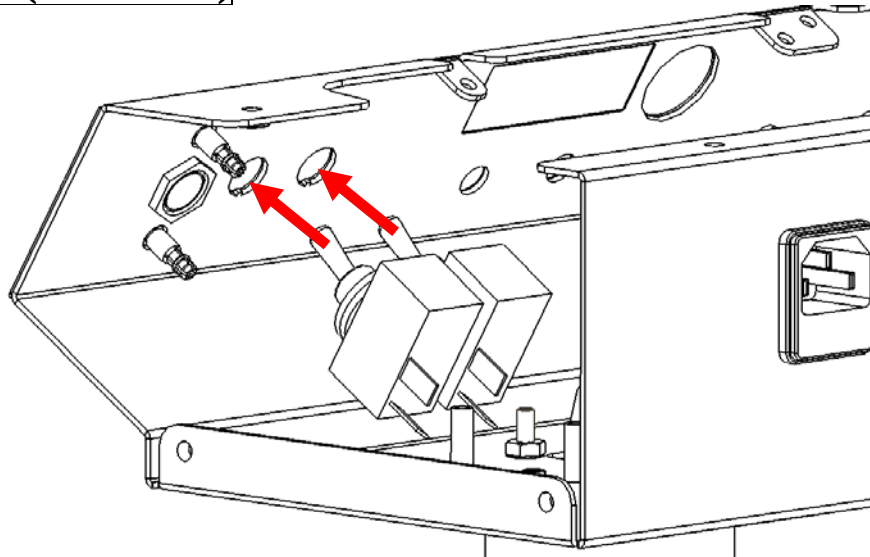
Insert the TOGGLE SWITCH into the CHASSIS hole. Be sure to align the notch in the CHASSIS hole with the keyway in the TOGGLE SWITCH. Secure the TOGGLE SWITCH to the chassis using the hex nut.

Torque the hex nuts to 6 inch-pounds.

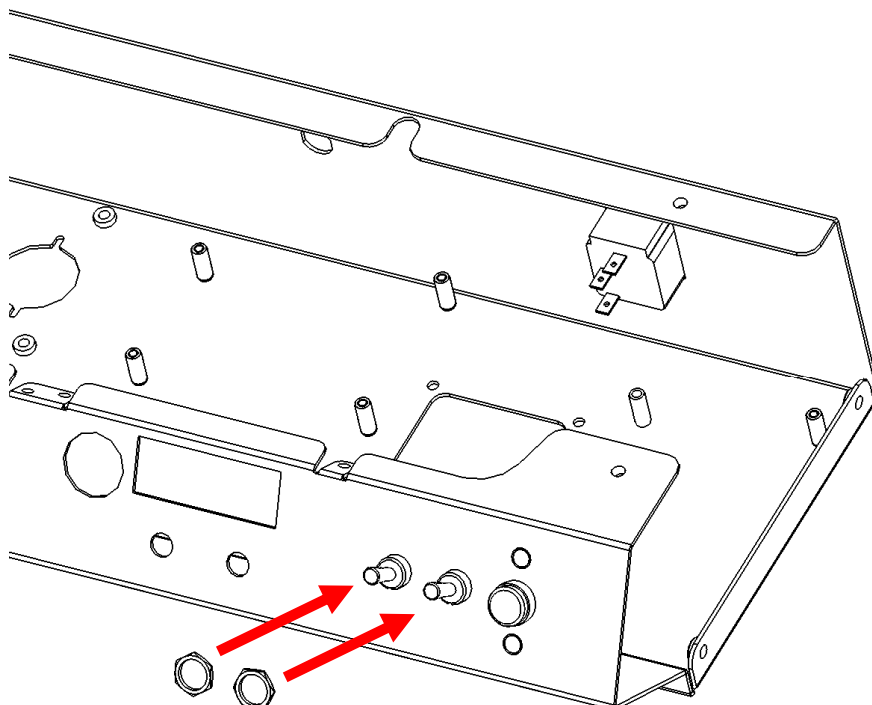


(Step 11 is continued on the next page.)

STEP 11 (continued)



A15-2, SV50, SV212 shown.

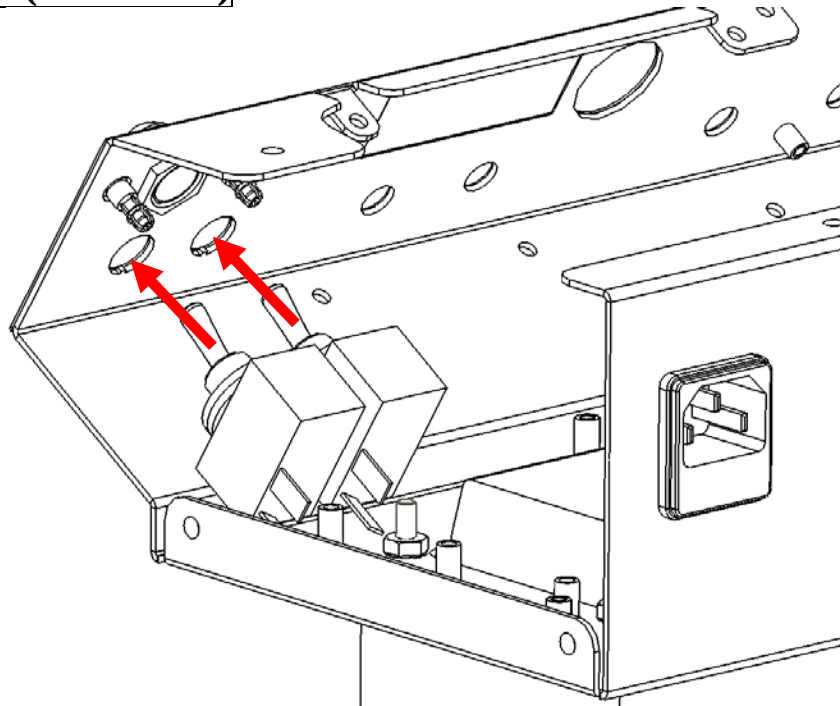


A15-2, SV50, SV212 shown.

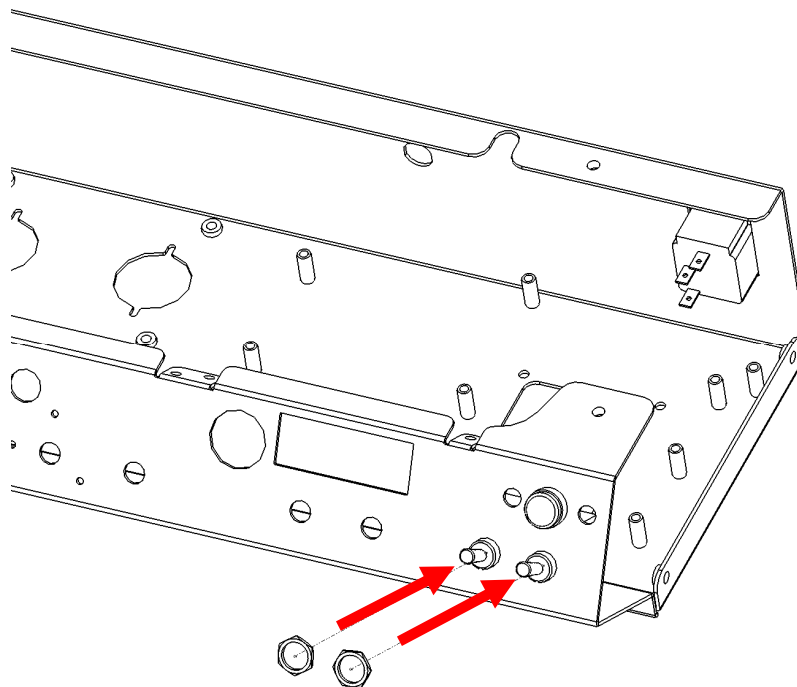
Hex nuts (included with the TOGGLE SWITCH)

(Step 11 is continued on the next page.)

STEP 11 (continued)



A15-1, SV40, SV112 shown.



A15-1, SV40, SV112 shown.

Hex nuts (included with the TOGGLE SWITCH)

STEP 12

P/N required:

1 each **50-02-9326** PCBA UI SV MKII



Break the UI LEFT PCBA, JEWEL LIGHT PCBA, and UI RIGHT PCBA apart.

Line 6 recommends using a SHOP AID for installing the PCBA UI to the chassis to confirm the potentiometer shafts are centered and concentric to the chassis holes.

Recommendations for SHOP AID (not requirements):

Qty 3 (minimum)

Material: aluminum or steel.

Outer diameter: 9.65mm

Inner diameter: 9.10mm



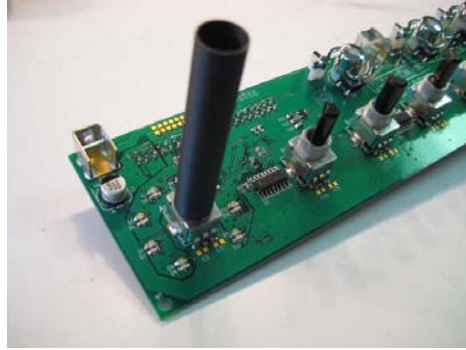
Insert SHOP AID over the indicated potentiometers.



Install SHOP AID over potentiometer, 3 PL

Step 12 is continued on next page

STEP 12 Continued



Insert PCBA UI (with SHOP AIDs) into the CHASSIS as shown.



Note – the 112 chassis is pictured

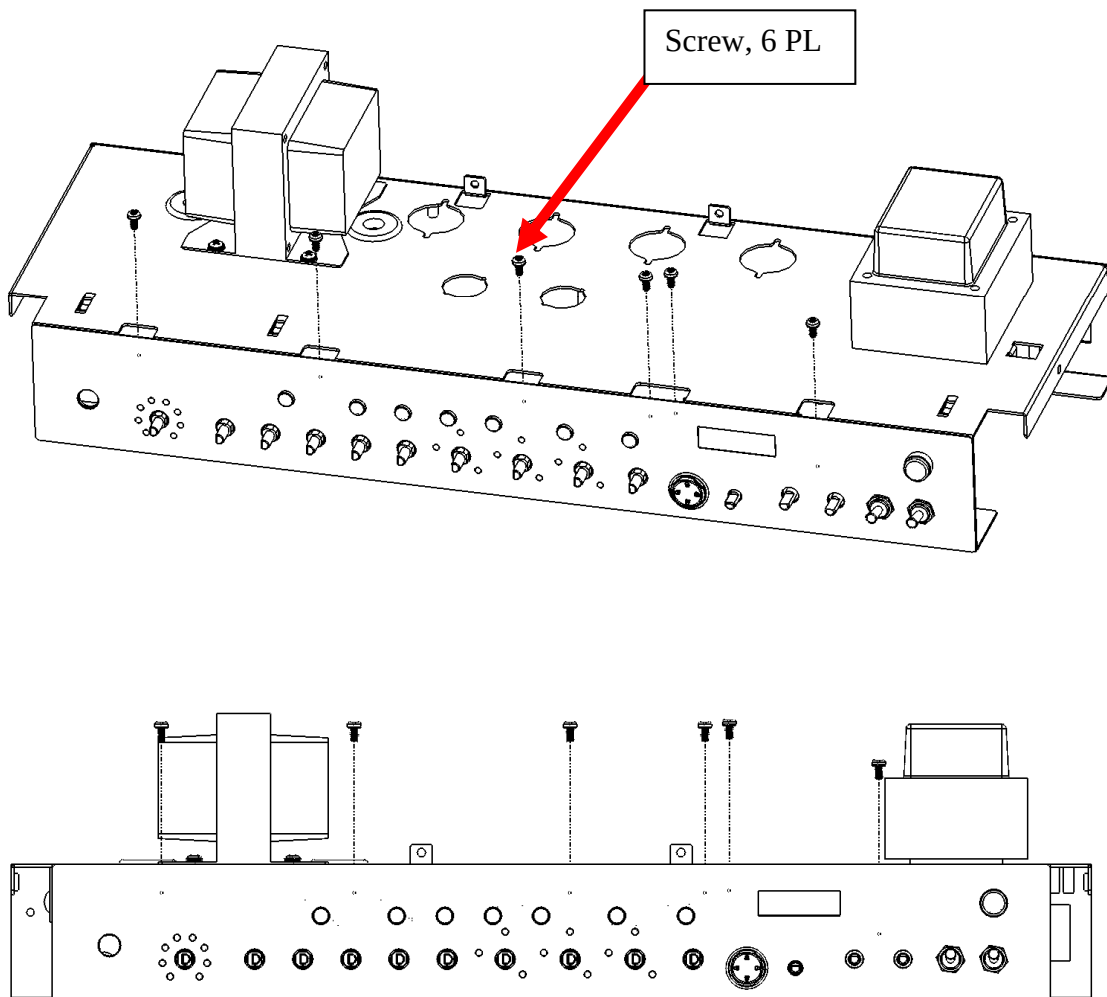
Keep the SHOP AIDs in-place while completing Step 13 and Step 14. Remove after completing Step 14.

STEP 13

P/N required:

6 each **30-00-0043** SCREW 6-32 x 5/16" WITH STAR WASHER

Install SCREWS as shown. Torque each SCREW to 8 – 10 inch-pounds.

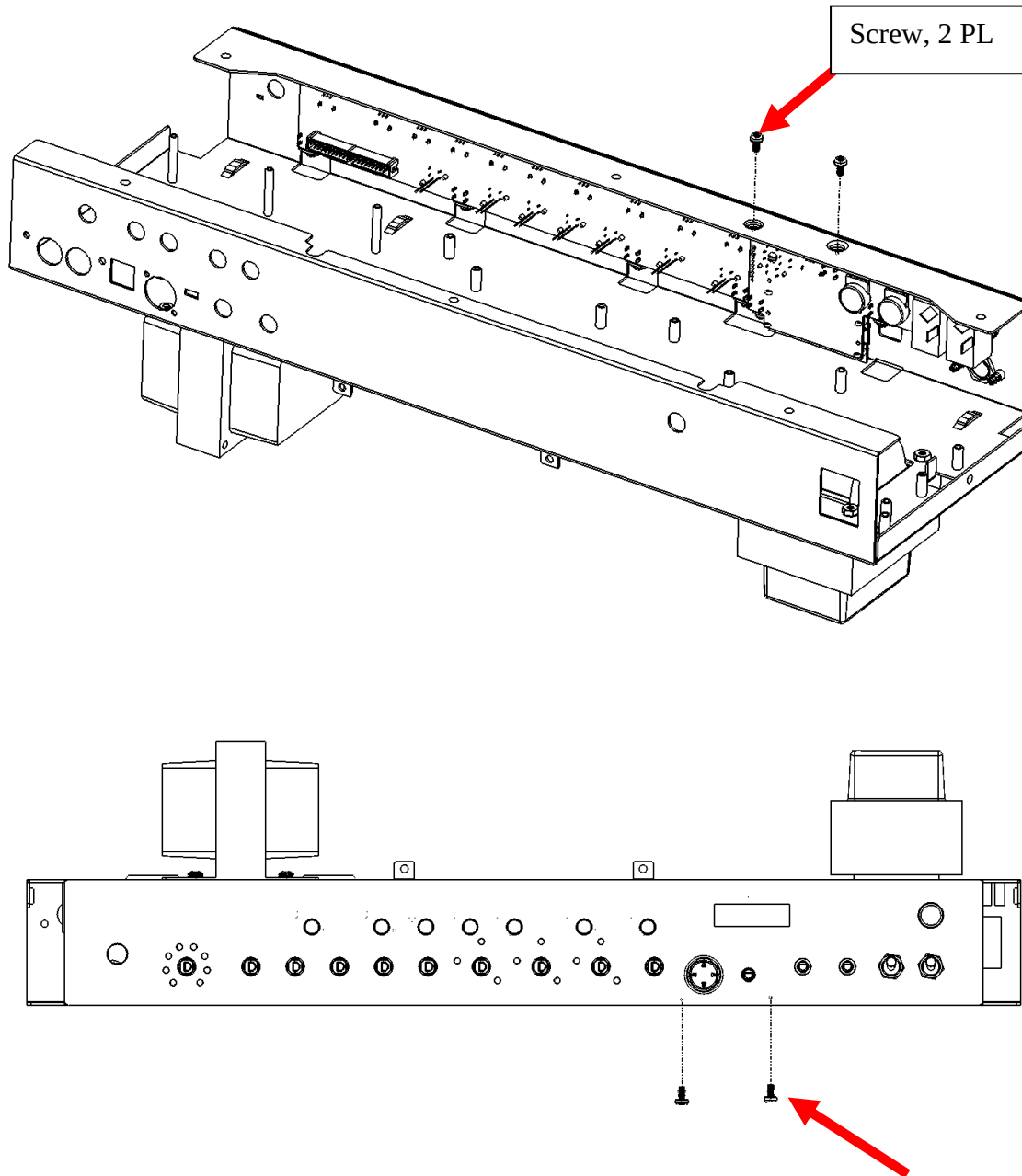


STEP 14

P/N required:

2 each **30-00-0043** SCREW 6-32 x 5/16" WITH STAR WASHER

Install SCREWS as shown. Torque each SCREW to 8 – 10 inch-pounds.

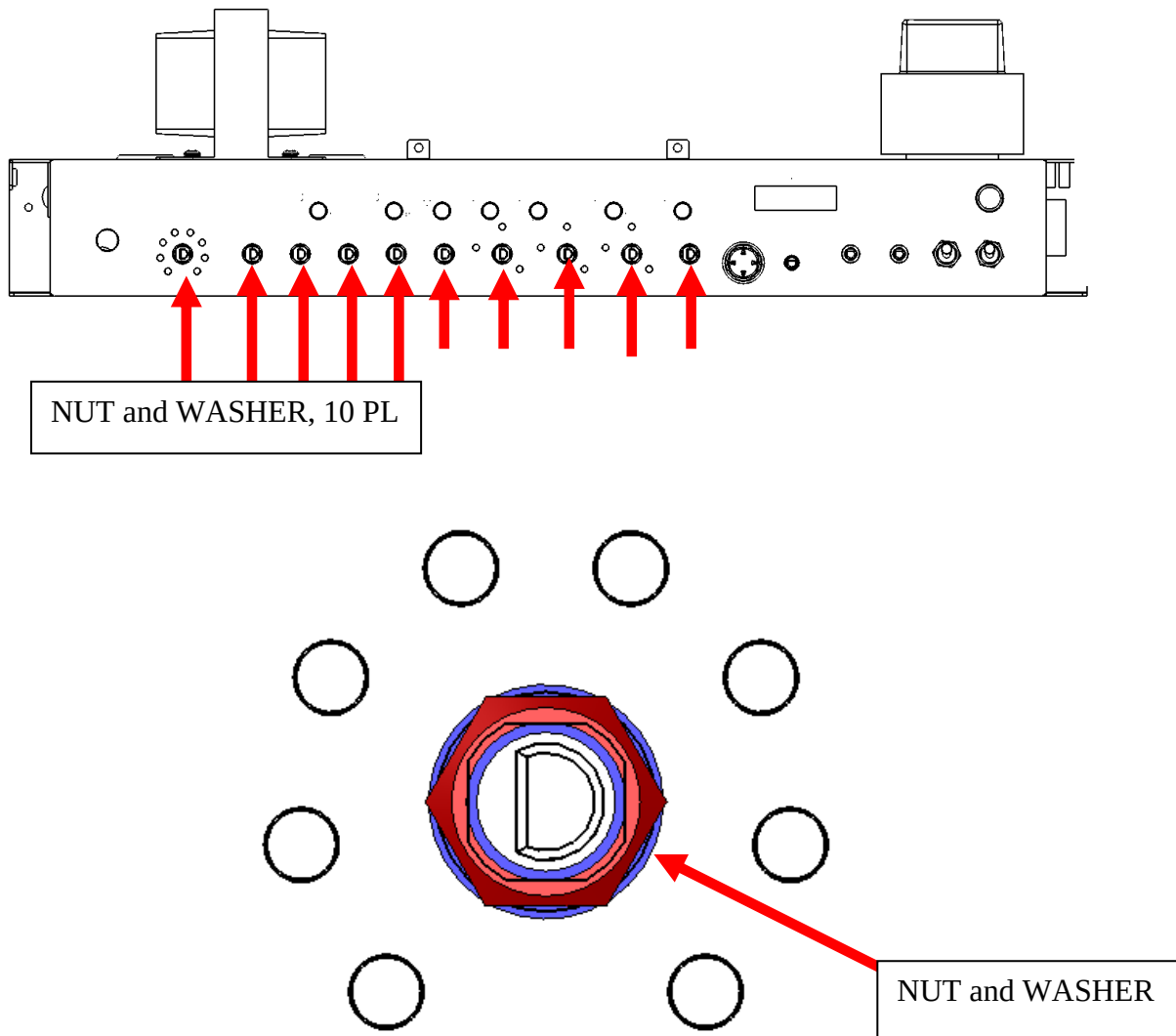


STEP 15

P/N required:

10 each **NUT** and **WASHER** (included with POTENTIOMETER)

Insert one NUT and WASHER over the indicated potentiometer shafts (10 PL). Torque each NUT to 4 – 6 inch-pounds.



Remove the SHOP AIDs from Step 12.

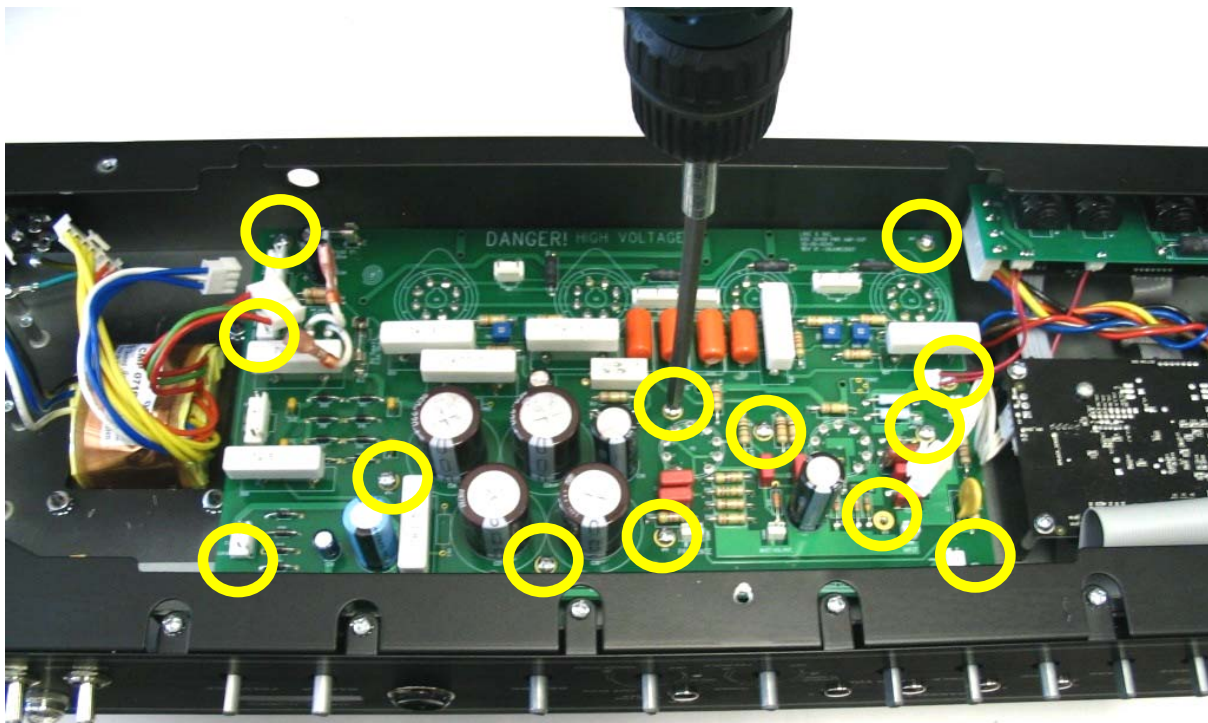
STEP 16

P/N required:

1 each **50-02-0245** PCBA POWER AMP/SUPPLY

13 each **30-00-0043** SCREW 6-32 x 5/16" WITH STAR WASHER

Install the PCBA POWER AMP/SUPPLY to chassis using SCREWS, 13 PL. Torque each screw to 8-10 in-lbs and apply Loctite.



STEP 17

P/N required:

1 each **50-02-0245-1** PCBA A/C PRIMARY

3 each **30-00-0043** SCREW 6-32 x 5/16" WITH STAR WASHER

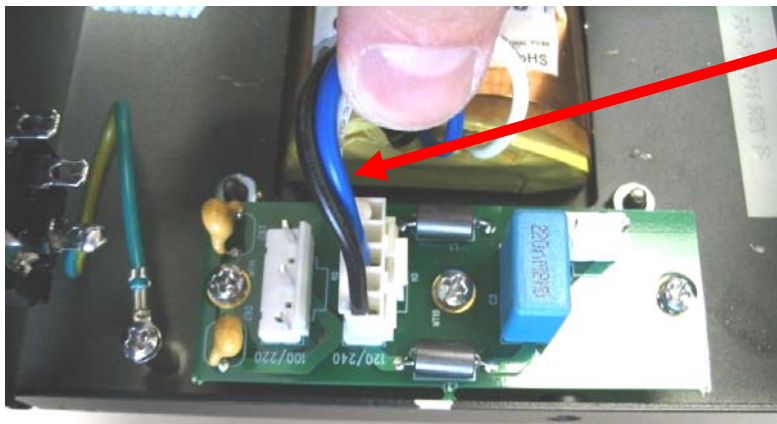
Install A/C Power PCBA to chassis using three (3) SCREWS. PCBA shall be oriented as shown.



STEP 18

Connect primary wires (blue, black and white) to the appropriate header on the A/C POWER PCBA as shown. See table below for appropriate header connection.

A/C Voltage	Header on PCBA AC	Voltage Label P/N
100 VAC (JA)	H2	40-25-0141
120 VAC (US)	H3	(no label)
220 VAC (EU)	H2	40-25-0172
240 VAC (AU, UK)	H3	40-25-0143



Primary wires (black, blue, white)

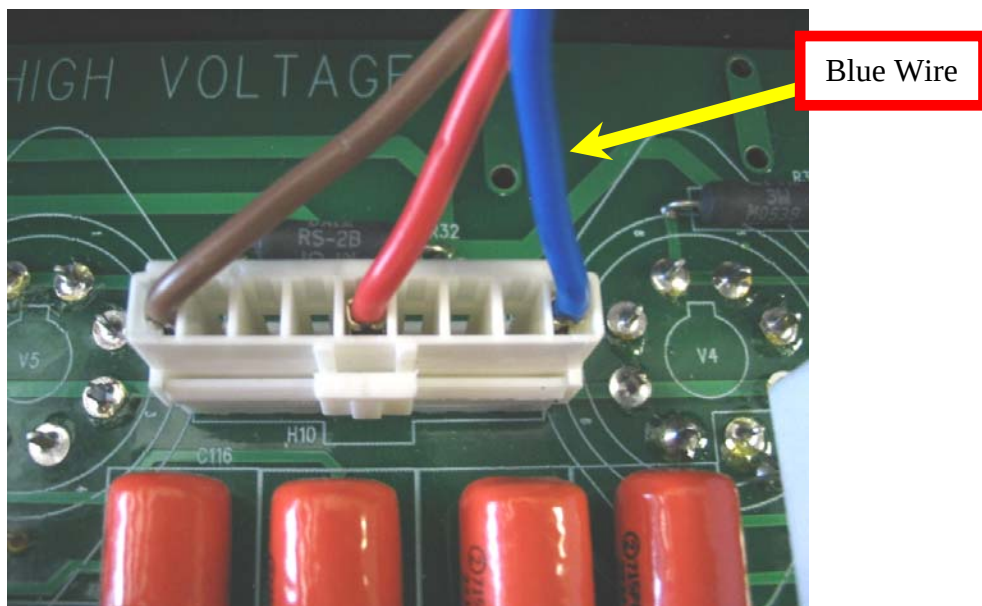
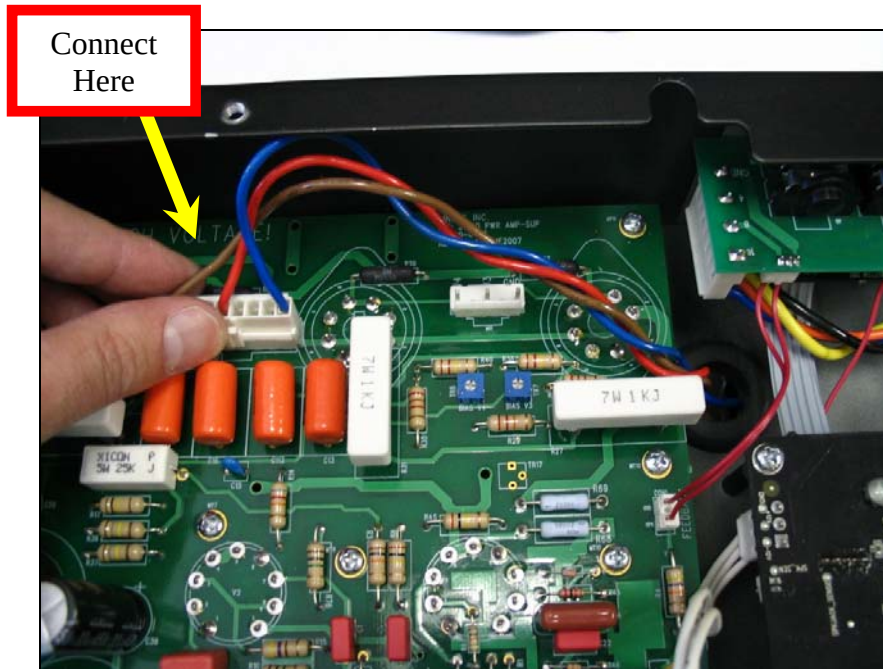
Apply the appropriate VOLTAGE LABEL to indicated area on the Chassis Rear. The appropriate VOLTAGE LABEL can be determined from the table above.



APPLY LABEL HERE
(over the 120V ~)

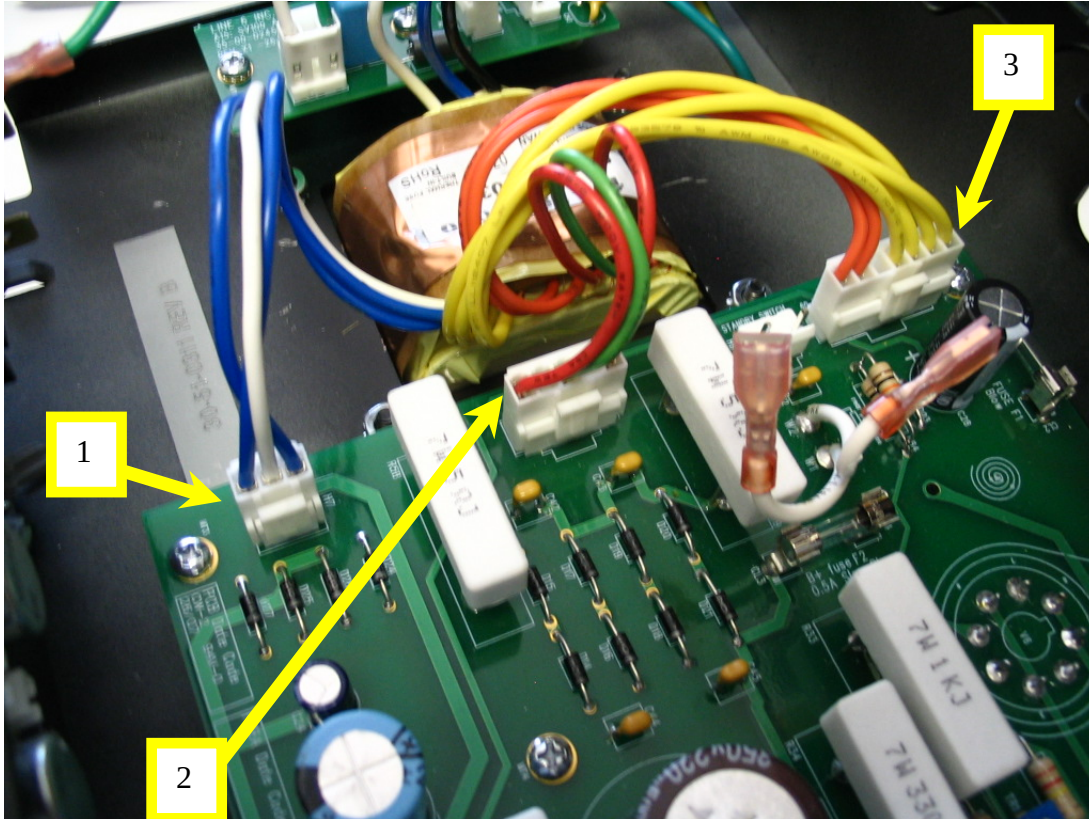
STEP 19

Twist and connect the primary (red, brown and blue) wire bundle from the OUTPUT TRANSFORMER to the H10 Header on the Power Amp PCBA.



STEP 20

Connect the Power transformer wire bundles as shown, 3 PL.



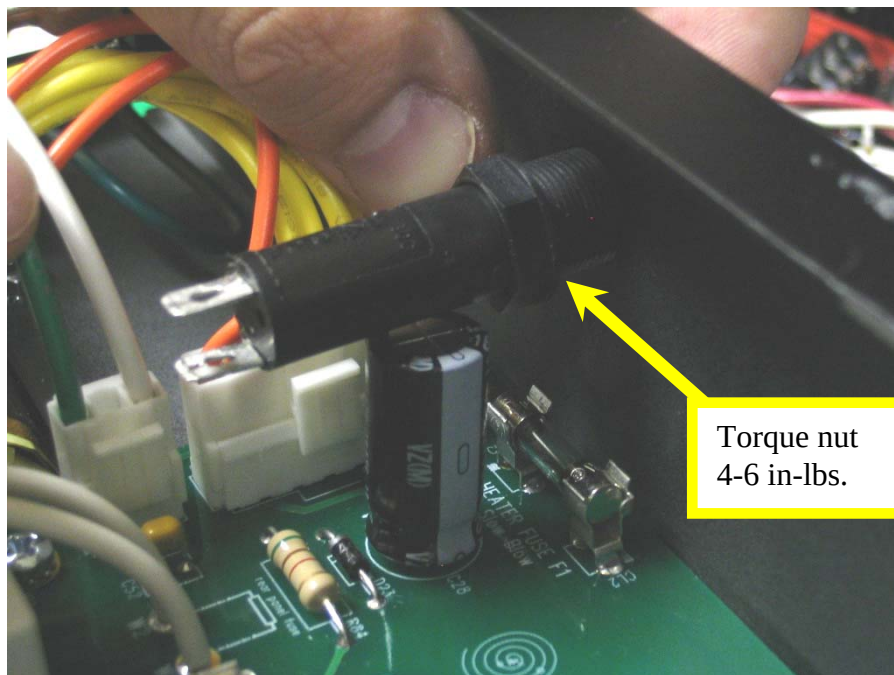
STEP 21

P/N required:

1 each **21-48-0004** FUSEHOLDER

1 each **24-19-0010** FUSE 1.0A 250V 3AG SLO-BLO

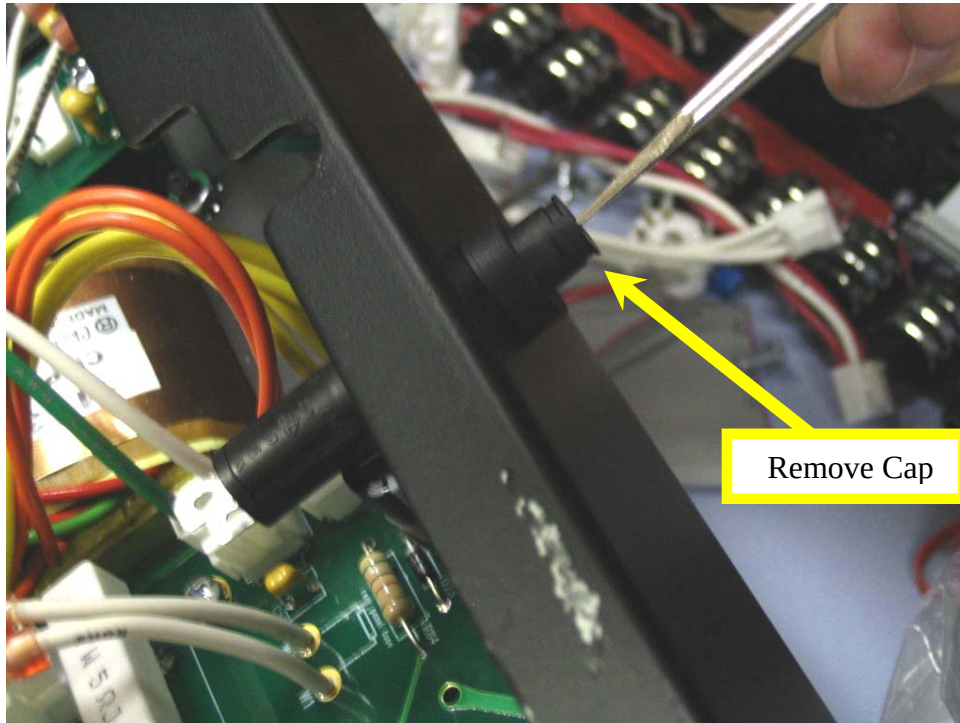
Insert the FUSEHOLDER into the hole in the CHASSIS as shown. Secure the FUSEHOLDER with the included nut. Torque the nut to 4 – 6 inch-pounds.



(step 21 is cont'd on next page)

STEP 21 CONT'D

Use a flathead screwdriver to remove the cap from the FUSEHOLDER by turning it ¼ turn counterclockwise. Install the FUSE 1.0A 250V 3AG SLO-BLO into the cap and reinstall it into the FUSEHOLDER.

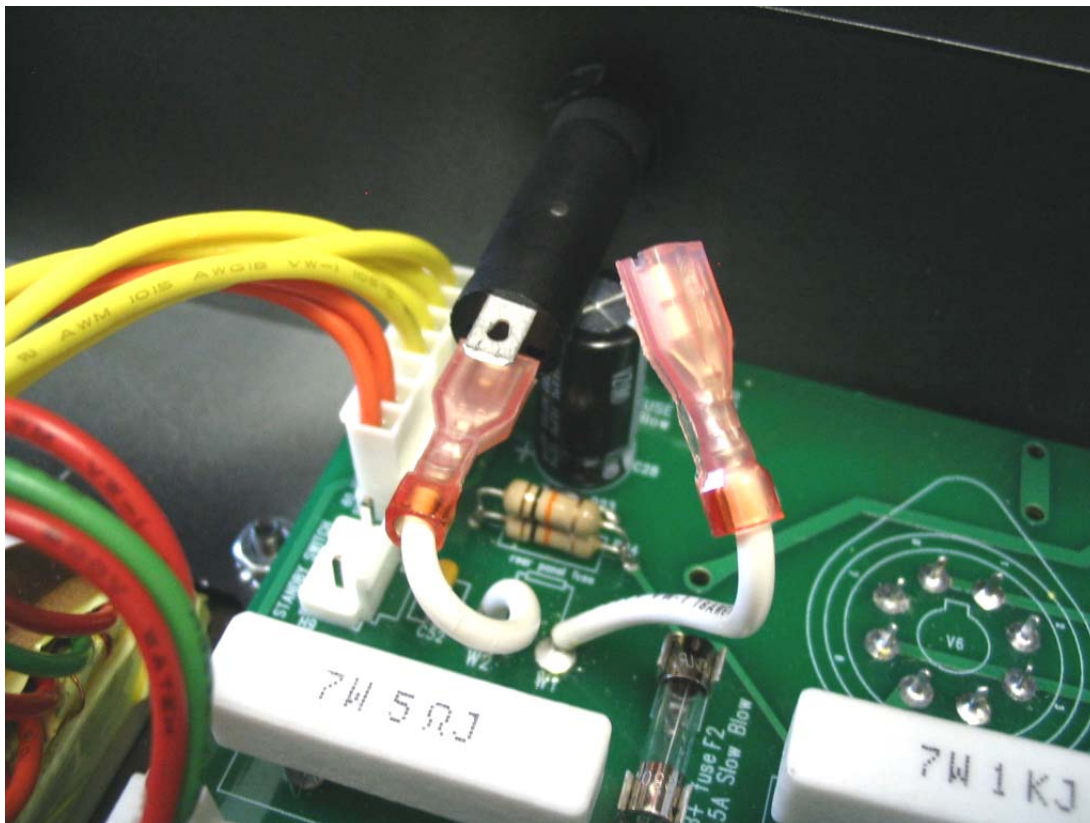


STEP 22

P/N required:

21-34-1117 CBL 1-COND STRND 18AWG 4.0IN .250-RCPT/TND-END WHT
(soldered on POWER SUPPLY PCBA)

Connect each CABLE to the fuse terminals. Each cable can be connected to either fuse terminal.



STEP 23

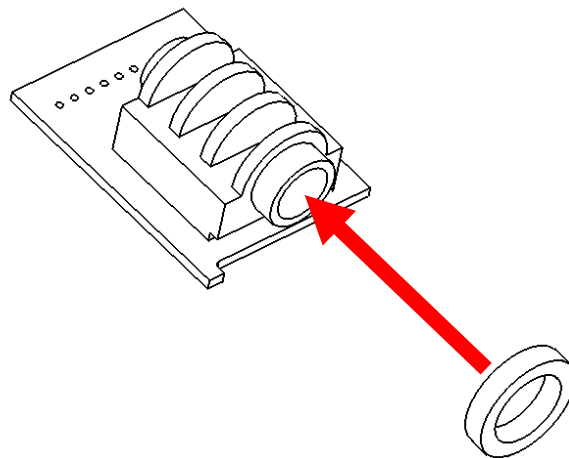
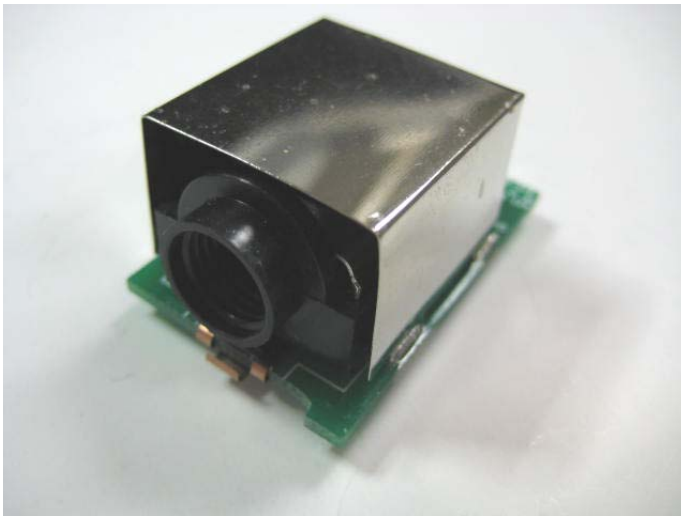
P/N required:

1 each **50-02-9330** PCBA GUITAR INPUT SV MKII

1 each **30-15-0004** JACK SPACER

1 each chrome nut and shoulder washer (included with ¼" jack)

Insert one SPACER over the jack as shown.

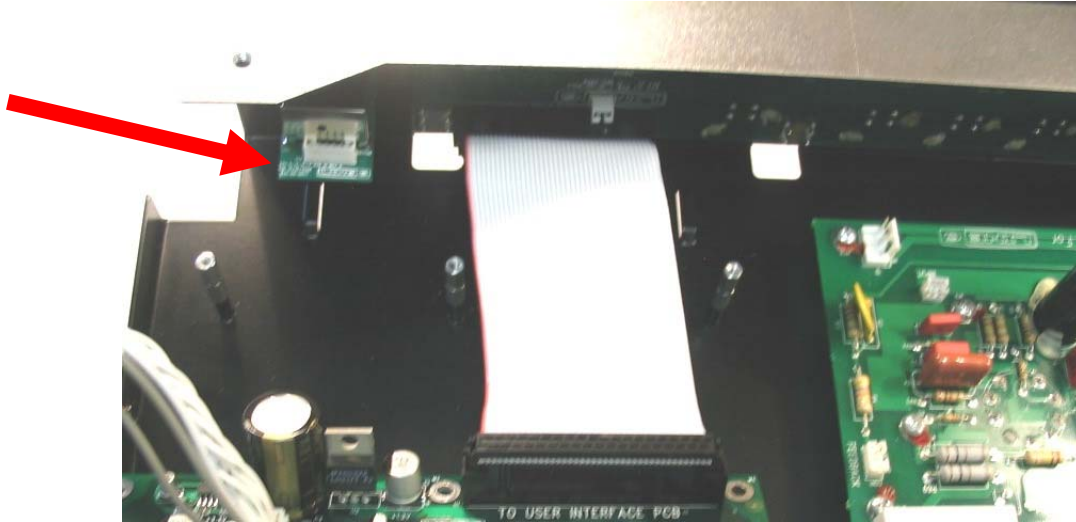


(step 23 is cont'd on next page)

STEP 23 CONT'D

Install the GUITAR-IN PCBA into the CHASSIS as shown. Be sure to align the notch on the PCBA with the small hole in the CHASSIS.

The GUITAR-IN PCBA will be oriented as shown in the chassis.



Secure the PCBA to the chassis using the chrome nut and shoulder washer (included with 1/4" jack). Torque the 1/4" jack nut to 5 - 6 inch-pounds.



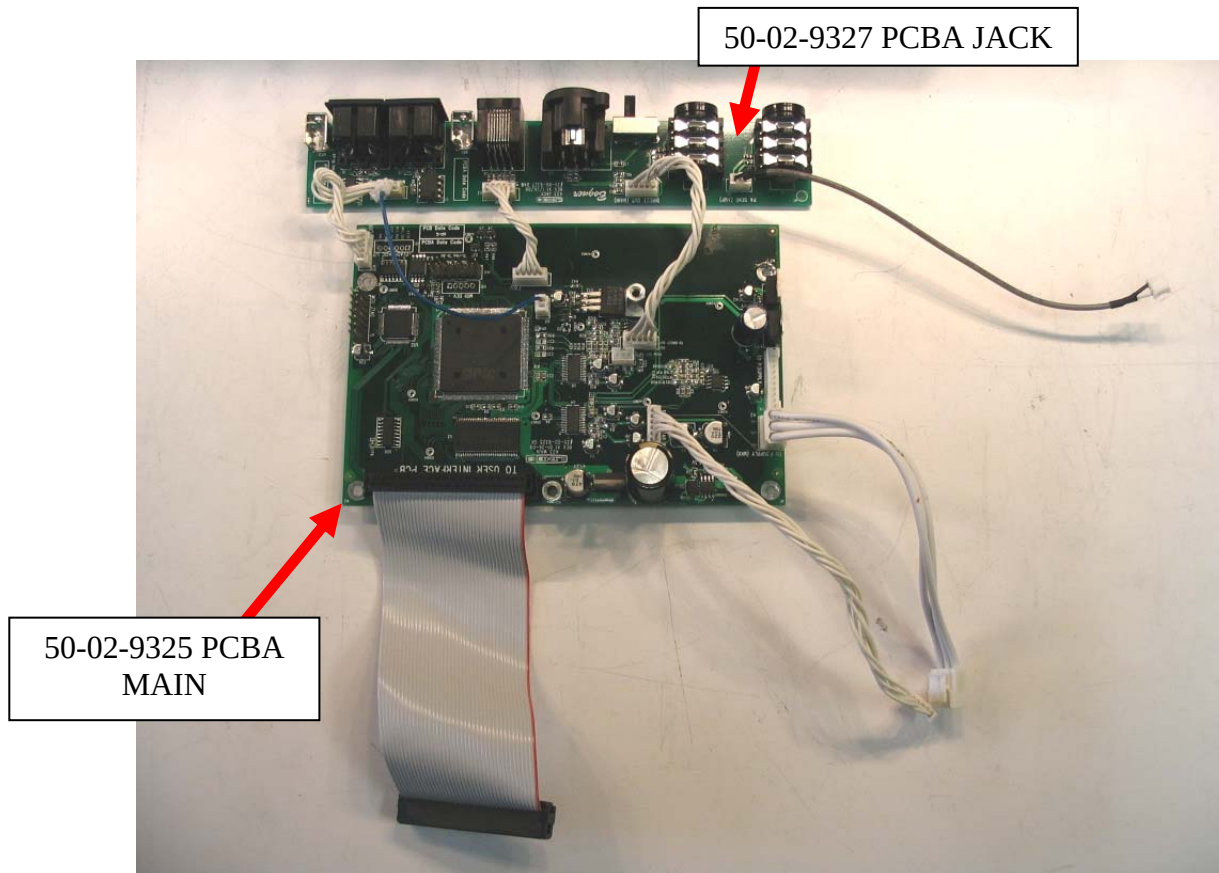
Torque the 1/4" jack nut to 5 - 6 inch-pounds.

STEP 24

P/N required:

- 1 each **50-02-9325** PCBA MAIN SV HD100 A23-4
- 1 each **50-02-9327** PCBA JACK A23
- 1 each **21-34-0090-3** RIBBON CABLE 40-PIN
- 1 each **21-34-0111** CABLE ASSY 6-COND (Guitar Input)
- 1 each **21-34-0093-1** CABLE ASSY 1-COND (Jack Sense)
- 1 each **21-34-0085-1** CABLE ASSY 5-COND (Direct Out)
- 2 each **21-34-0085-4** CABLE ASSY 5-COND (MIDI and FBV)
- 1 each **21-34-0100-3** CABLE ASSY (PA Send)
- 1 each **21-34-0095** CABLE 3-COND

Connect each cable as shown.



(Step 24 is continued on the next page.)

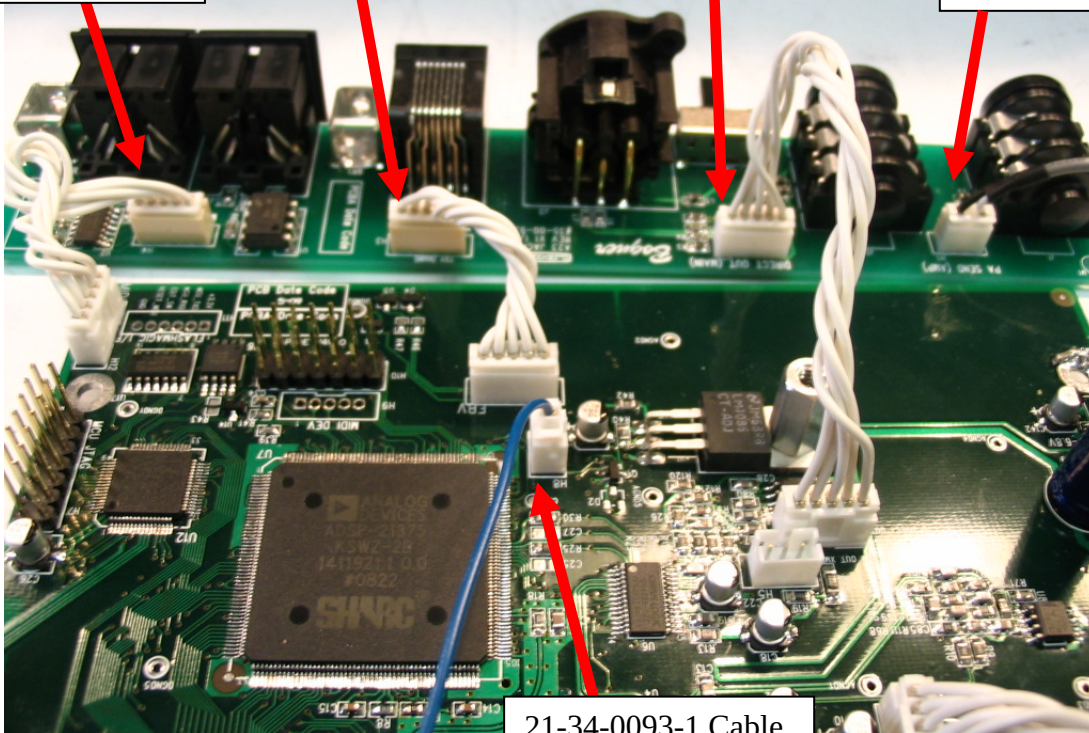
STEP 24 CONT'D

21-34-0085-4 Cable
5-Cond (MIDI)

21-34-0085-4 Cable
5-Cond (FBV)

21-34-0085-1 Cable
5-Cond (Direct Out)

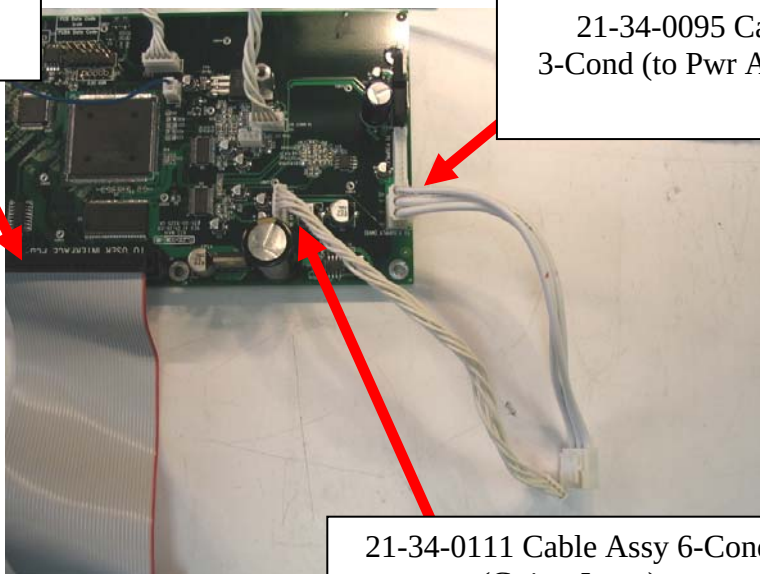
21-34-0100-3 Cable
Shielded (PA Send)



21-34-0093-1 Cable
1-Cond (Jack Sense)

21-34-0090-3 Cable
Ribbon 40-Pin

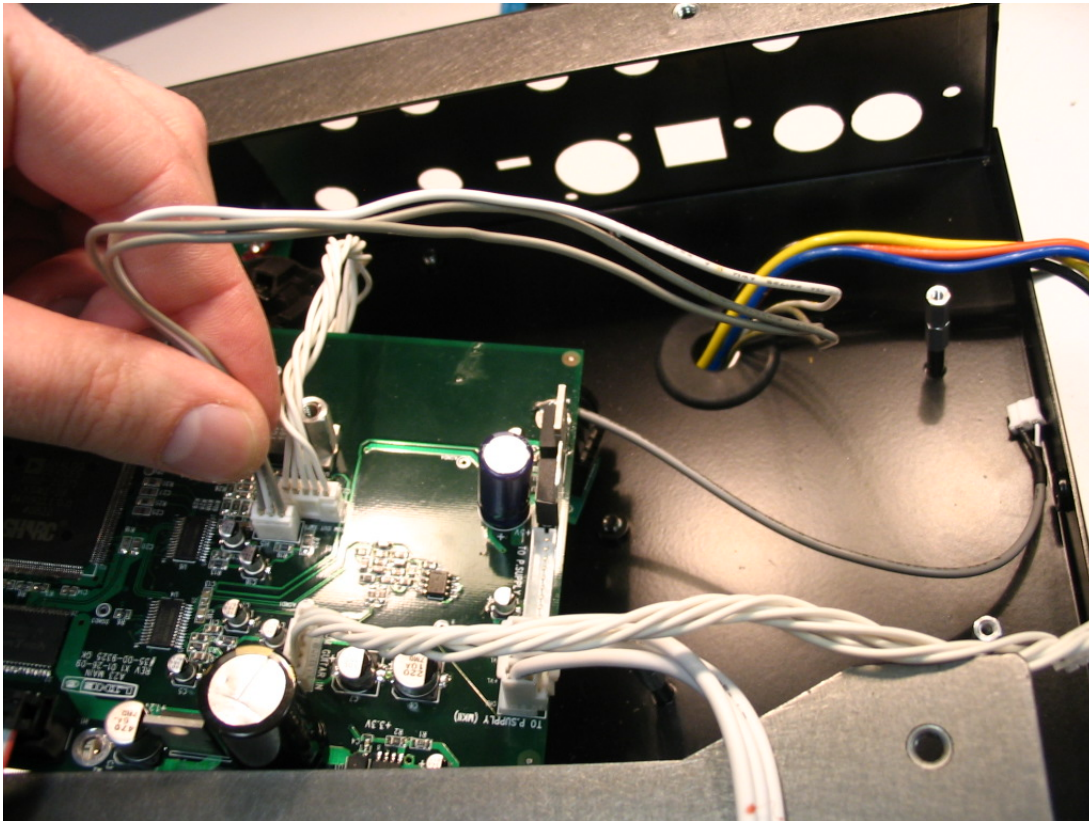
21-34-0095 Cable Assy
3-Cond (to Pwr Amp/Supply)



21-34-0111 Cable Assy 6-Cond
(Guitar Input)

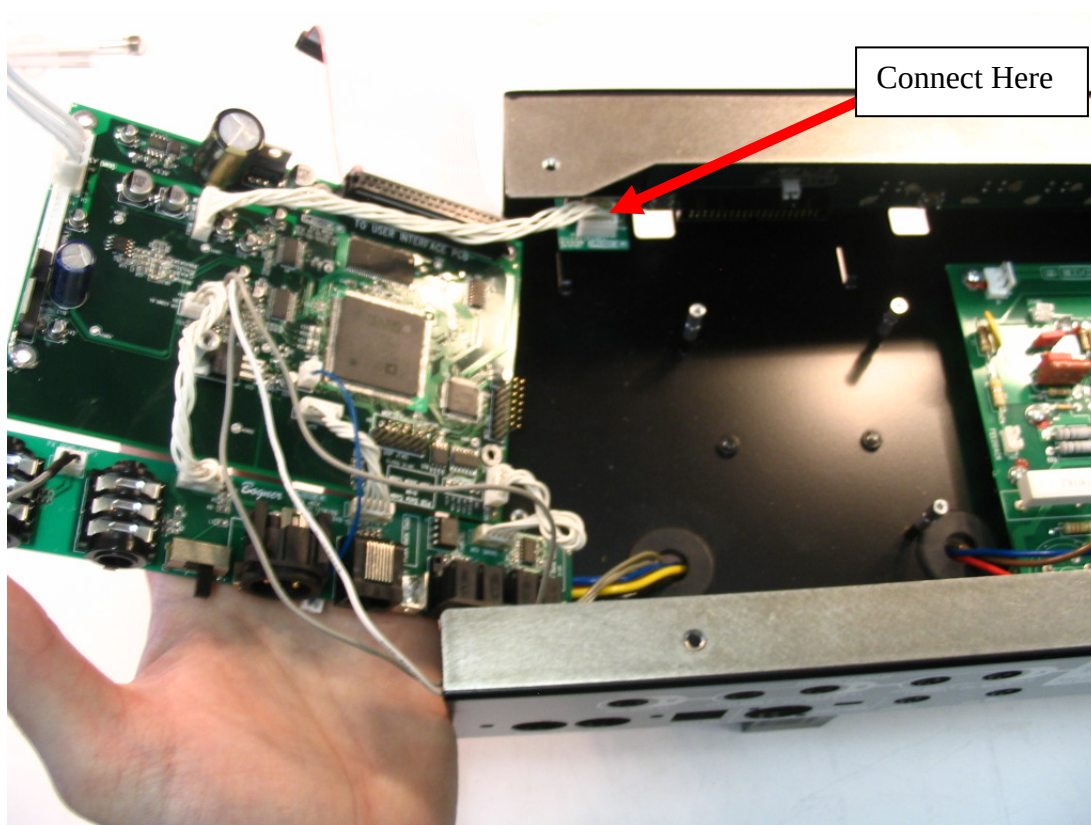
STEP 25

Connect the 3-Cond cable from the Output Transformer to Header XX on the PCBA MAIN.



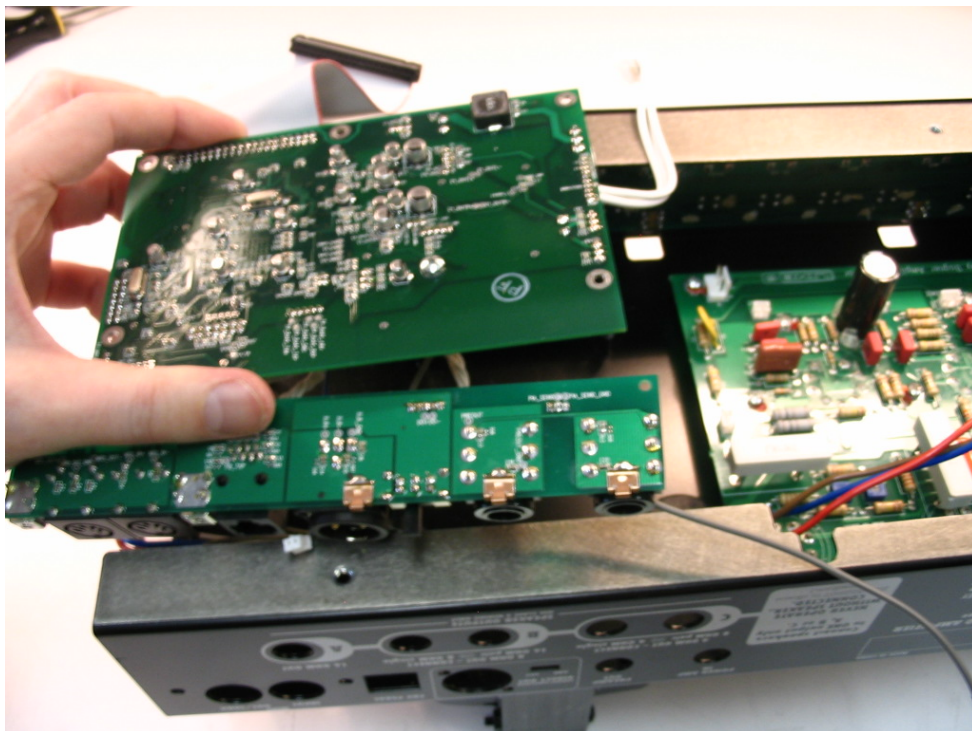
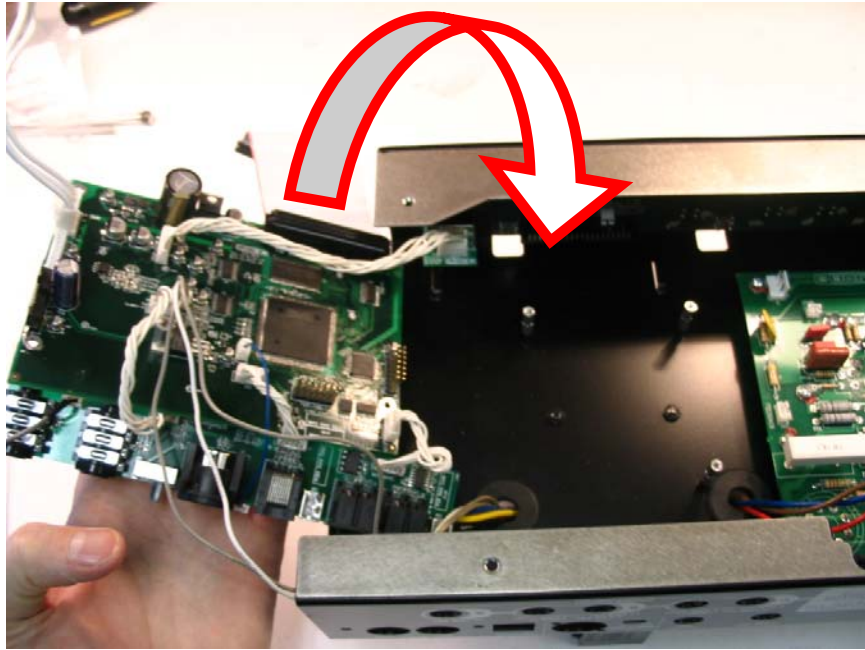
STEP 26

Connect the free end of the **21-34-0111** CABLE ASSY 6-COND to the header on the 50-02-0071 PCBA GUITAR INPUT

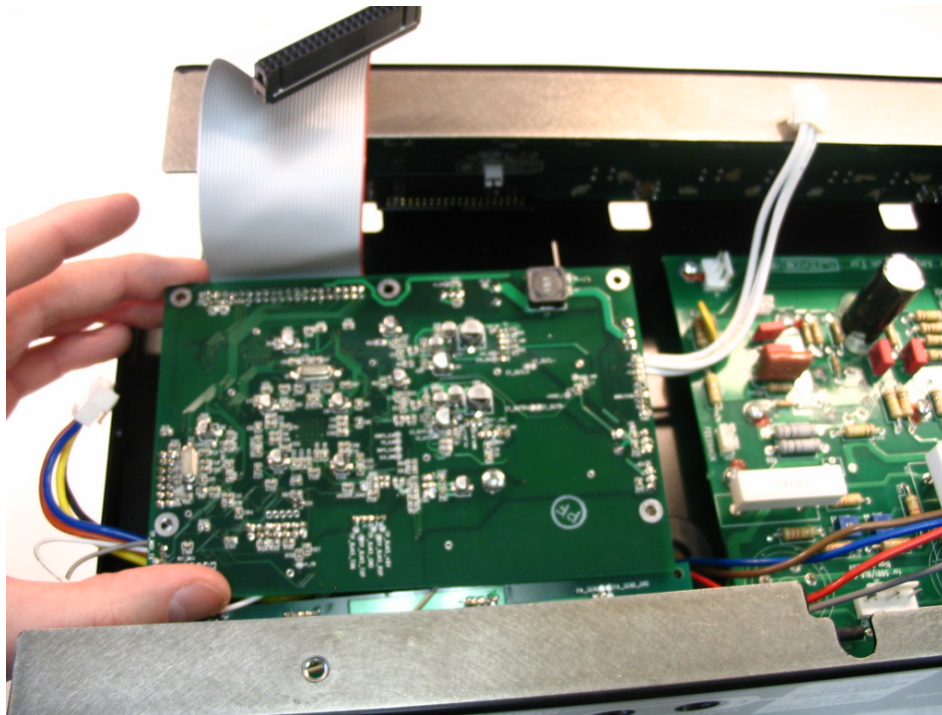
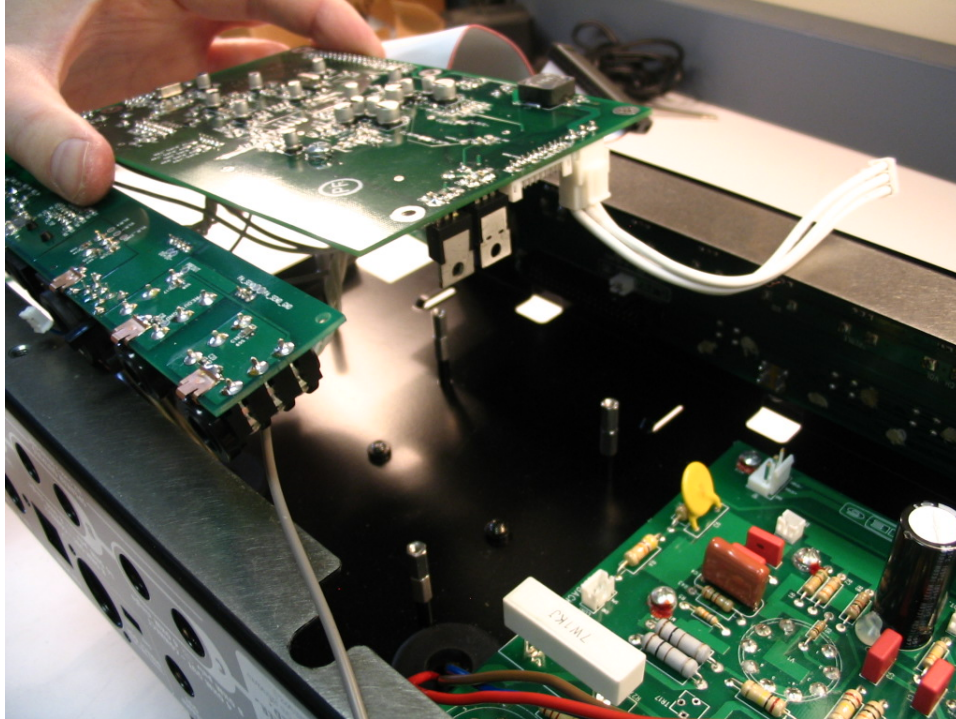


STEP 27

Flip the PCBA MAIN and PCBA REAR JACK over as shown.



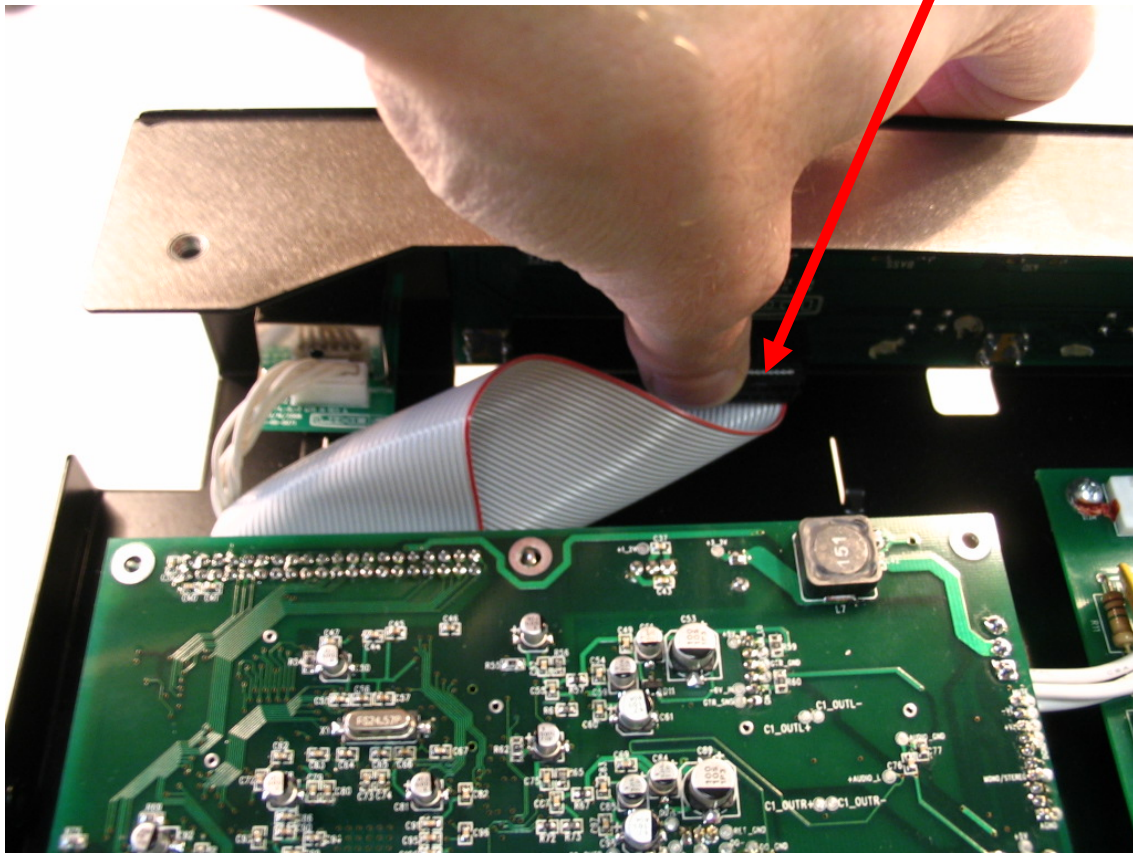
STEP 27 CONT'D



STEP 28

Connect the free end of the **21-34-0090-3 RIBBON CABLE 40-PIN** to the header on the PCBA U/I as shown.

Connect Here

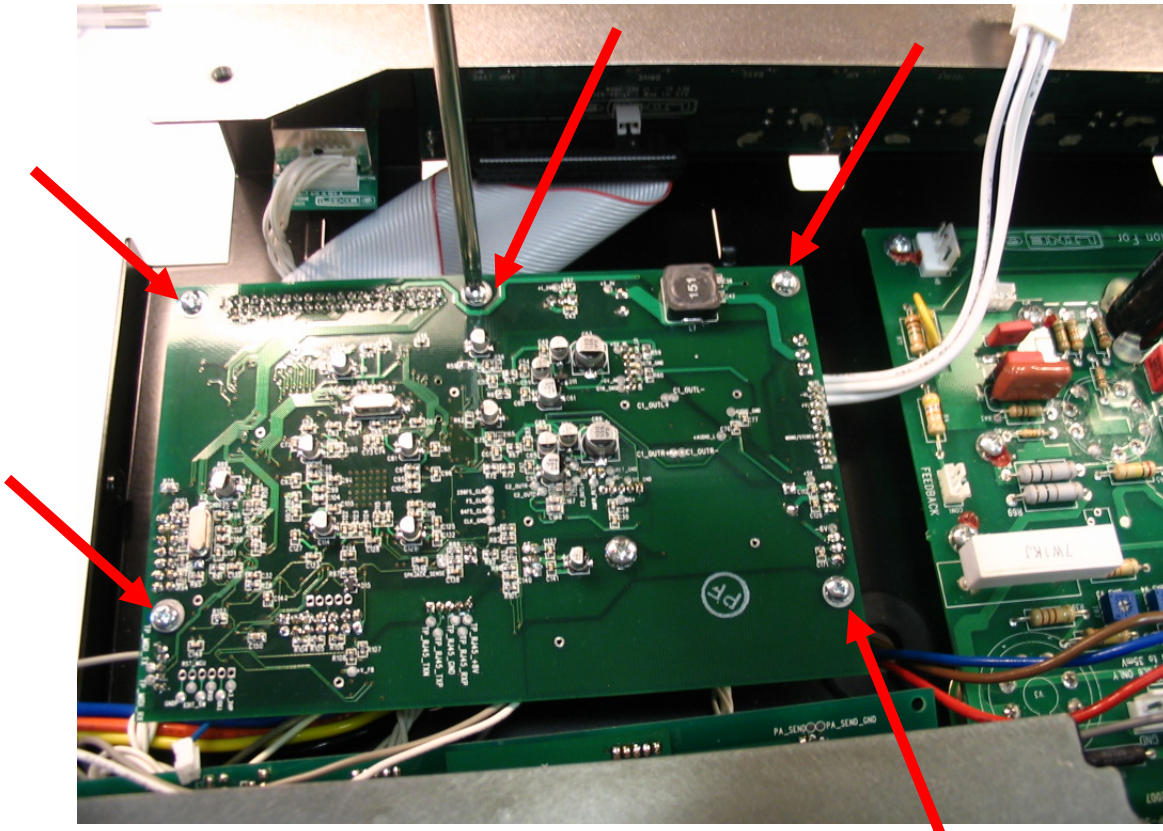


STEP 29

P/N required:

5 each 30-00-0150 SCREW #4-40 x 5/16" w/star washer

Secure PCBA MAIN to CHASSIS as shown using 5 SCREWS. Torque each screw to 6-8 inch-pounds. Apply loctite to the base of each screw head (5 PL).



STEP 30

P/N required:

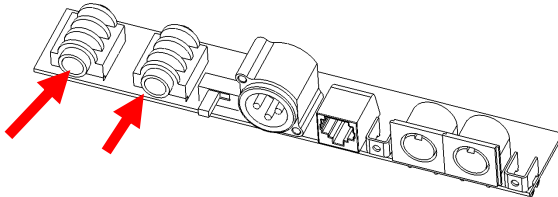
2 each **30-15-0004** JACK SPACER

2 each **30-00-0042** SCREW #4 x 3/8" BLK

2 each **30-00-0375** SCREW 6-32 x 3/8" BLK

2 each chrome nut and shoulder washer (included with 1/4" jack)

Insert one SPACER over each jack.

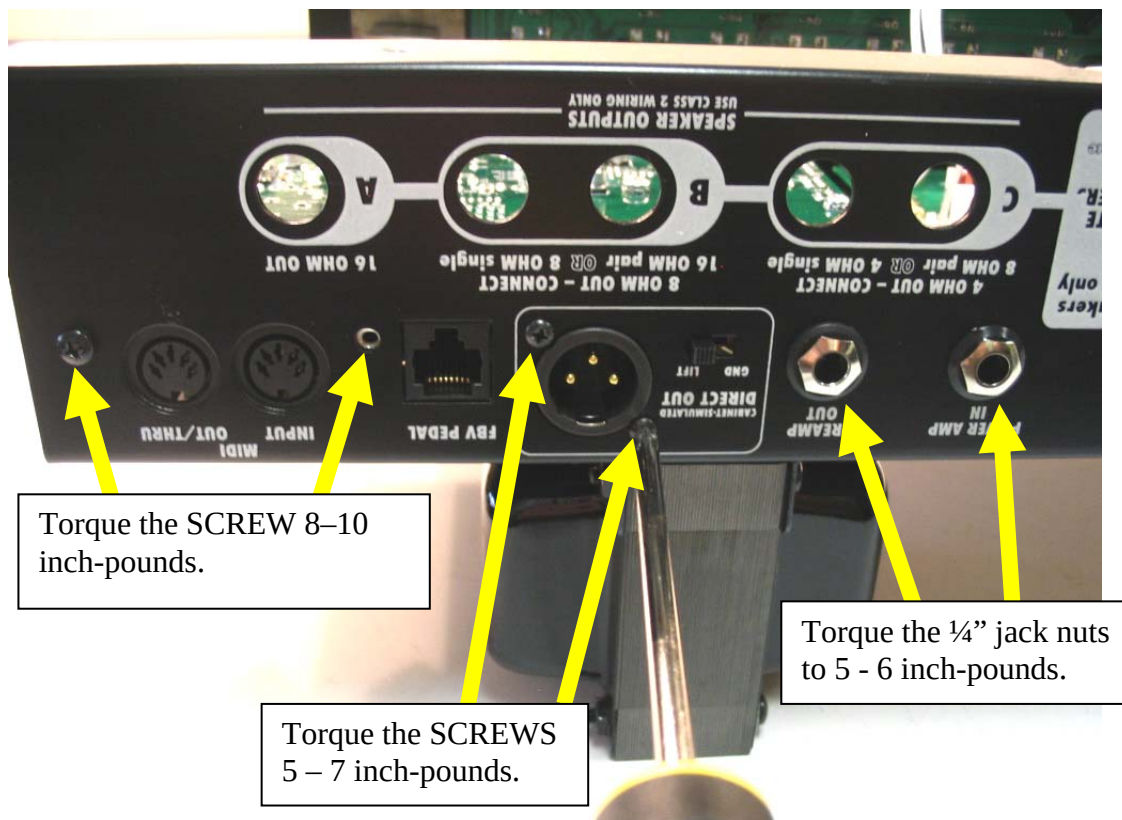


Secure the PCBA JACK to CHASSIS as shown.

Torque the SCREWS #4 x 3/8" 5 – 7 inch-pounds.

Torque the SCREWS #6-32 x 3/8" 8 – 10 inch-pounds.

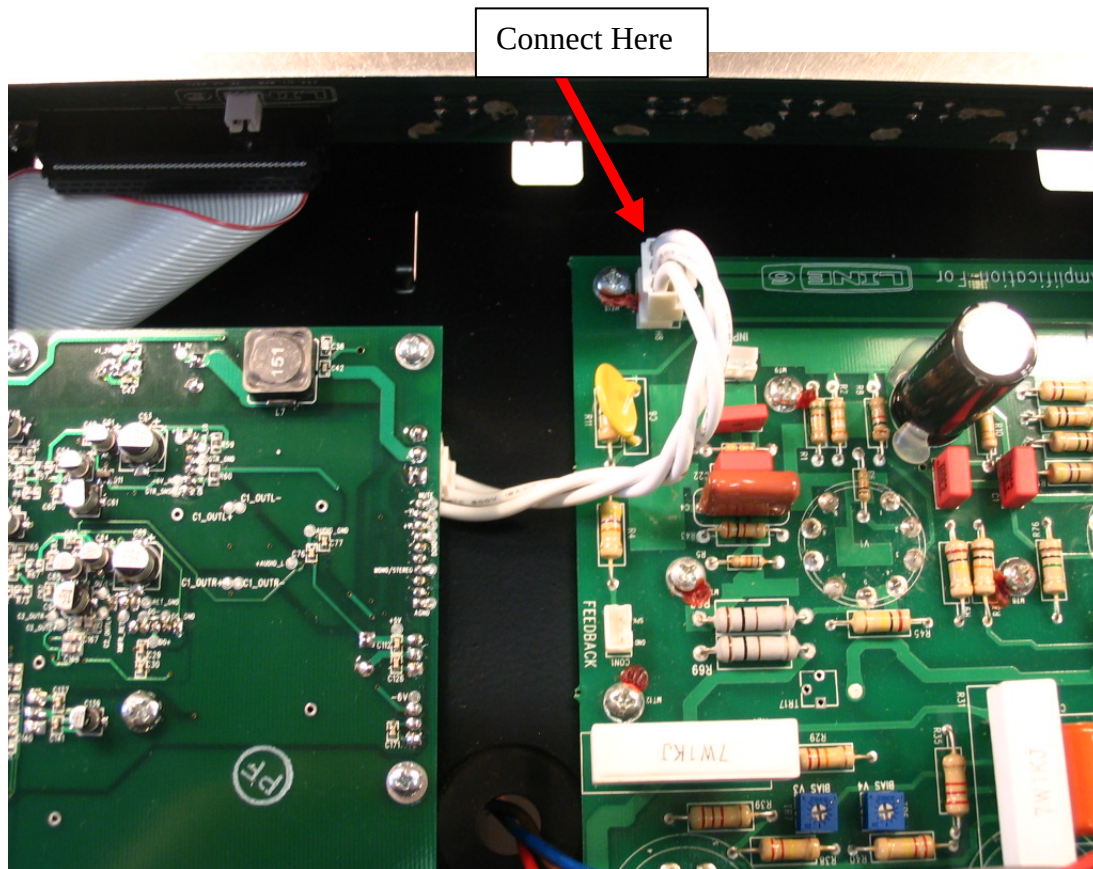
Torque the 1/4" jack chrome nuts to 5 - 6 inch-pounds.



STEP 31

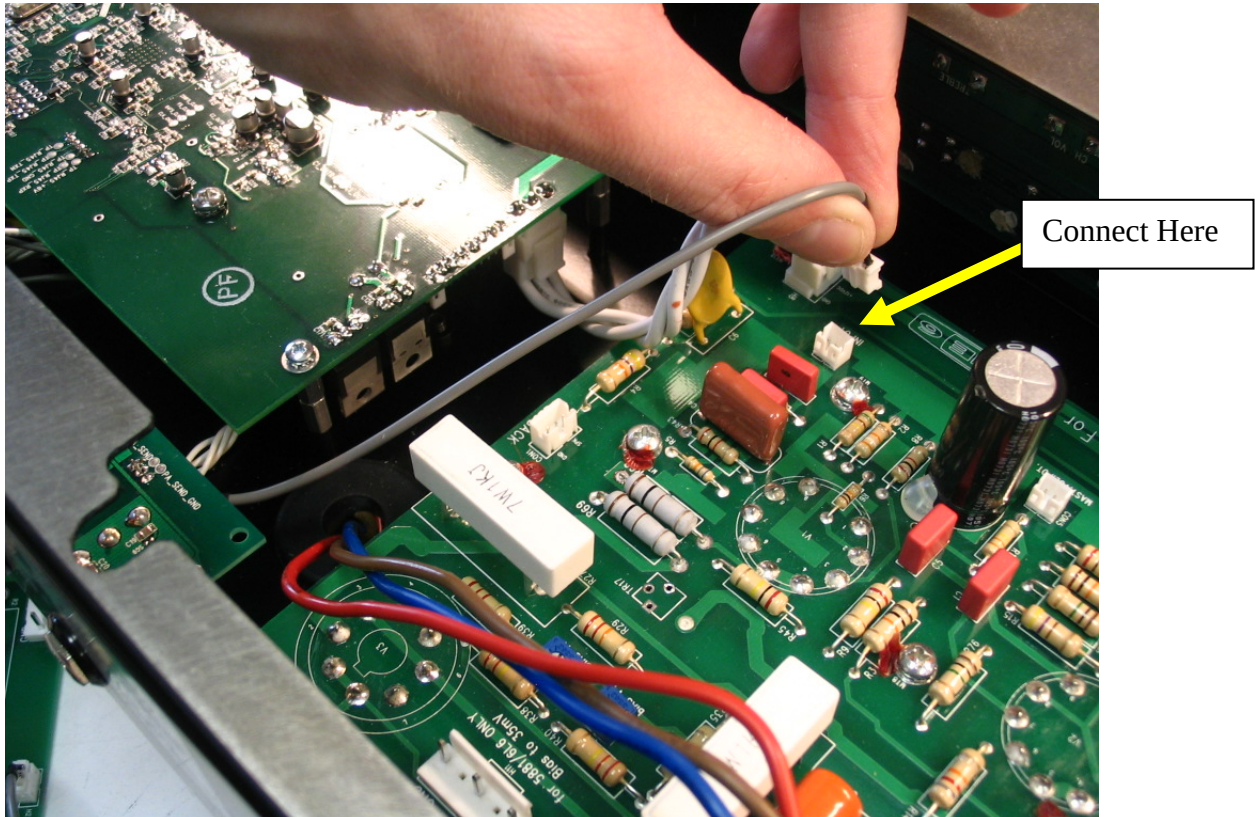
Connect the free end of the **21-34-0095** CABLE 3-COND to header H8 on the PCBA POWER AMP/SUPPLY as shown.

Twist cable prior to connecting.



STEP 32

Connect the free end of the **21-34-0100-3 CABLE ASSY (PA Send)** to the 'CON6' header 'INPUT' on the PCBA POWER AMP/SUPPLY as shown.



STEP 33

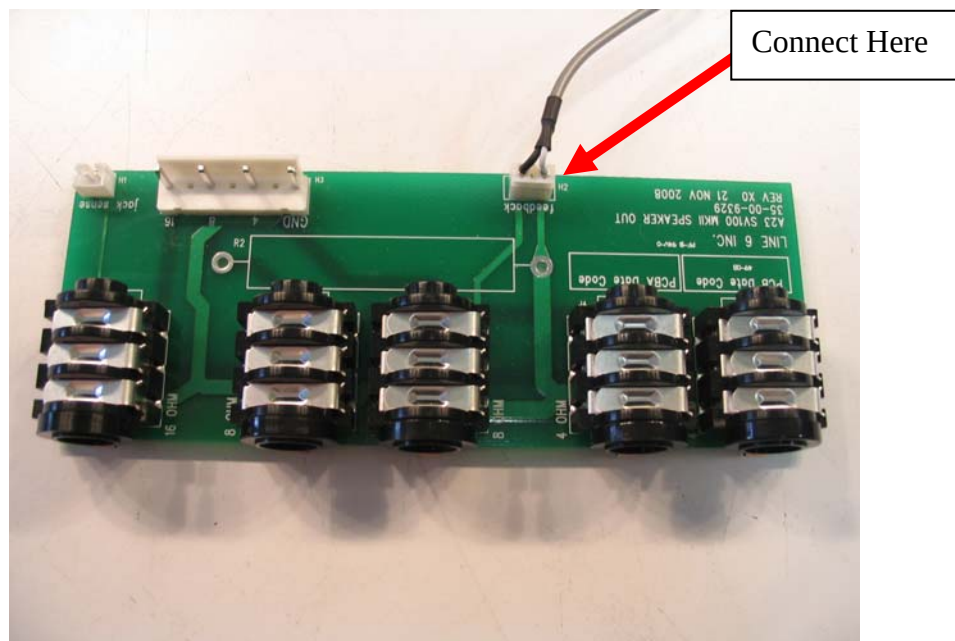
P/N required:

1 each **50-02-9329** PCBA SPEAKER OUT

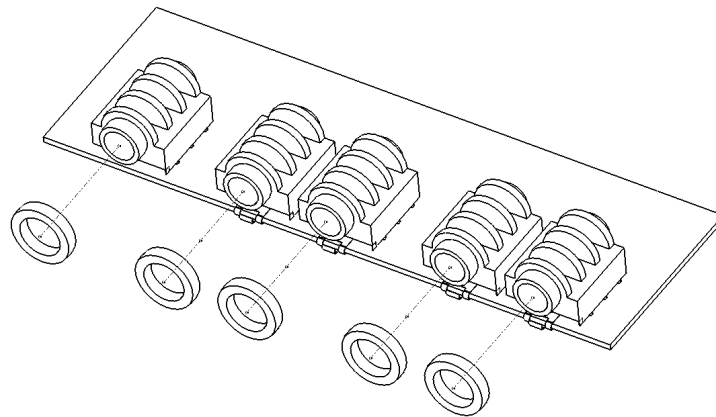
1 each **21-34-0097-1** CABLE ASSY 3-COND SHIELDED (Feedback)

5 each **30-15-0004** JACK SPACER

Connect the **21-34-0097-1** CABLE ASSY 3-COND SHIELDED (Feedback) to header H2 'feedback' on the PCBA SPKR OUT as shown.

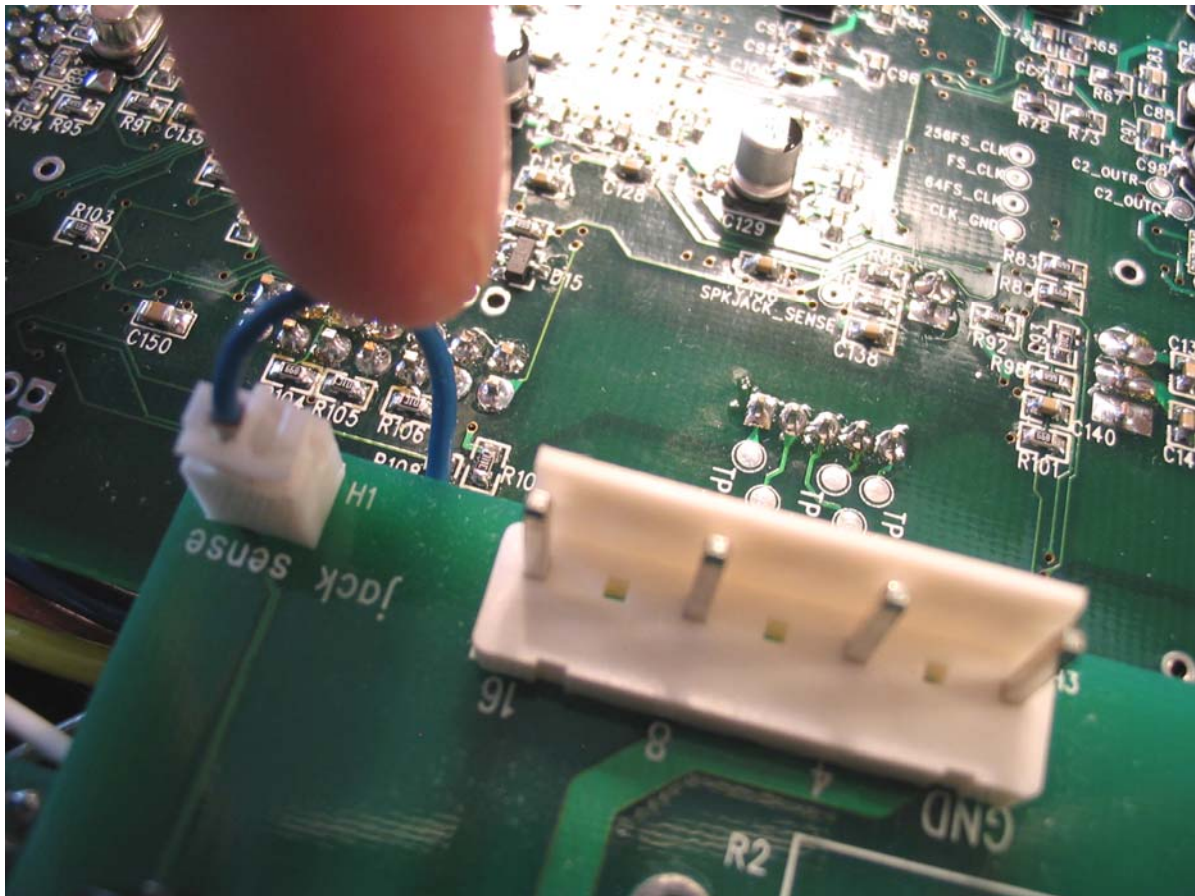


Insert one JACK SPACER over each 1/4" jack as shown (5 PL.).



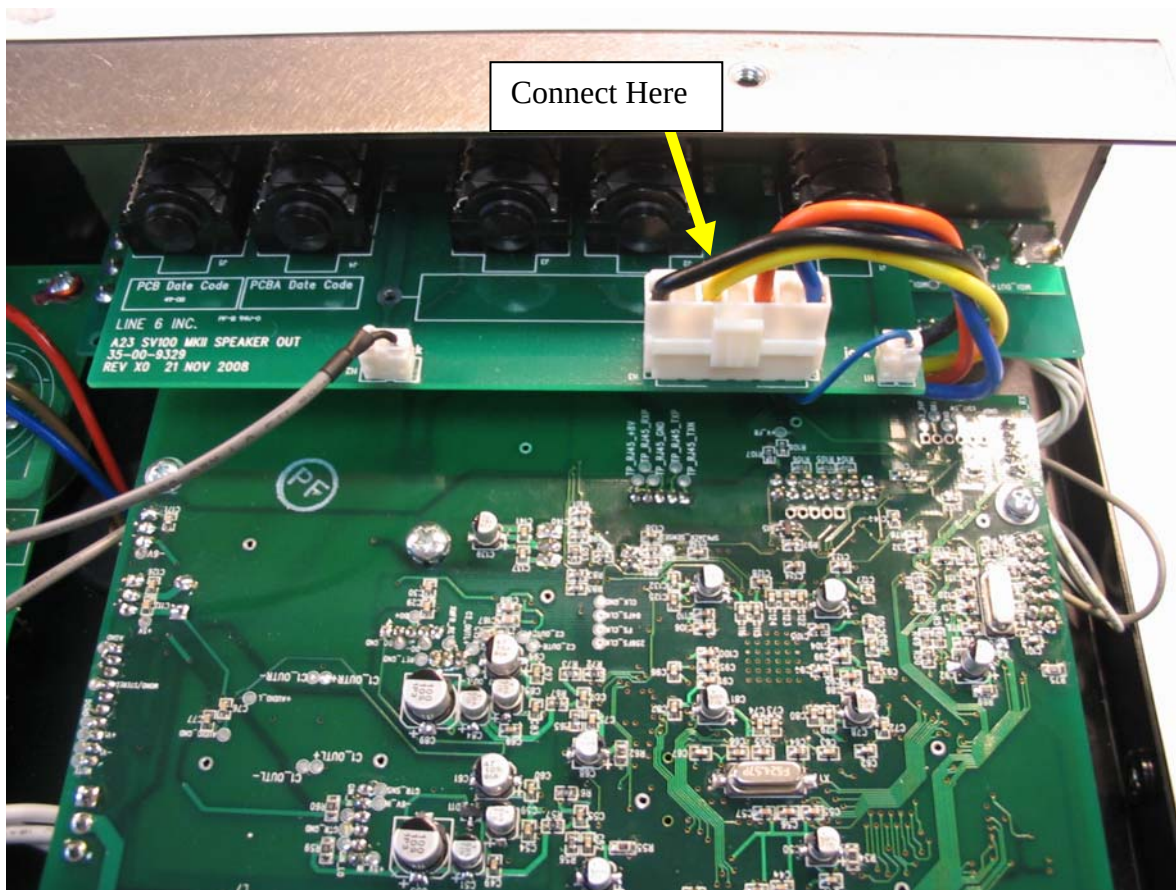
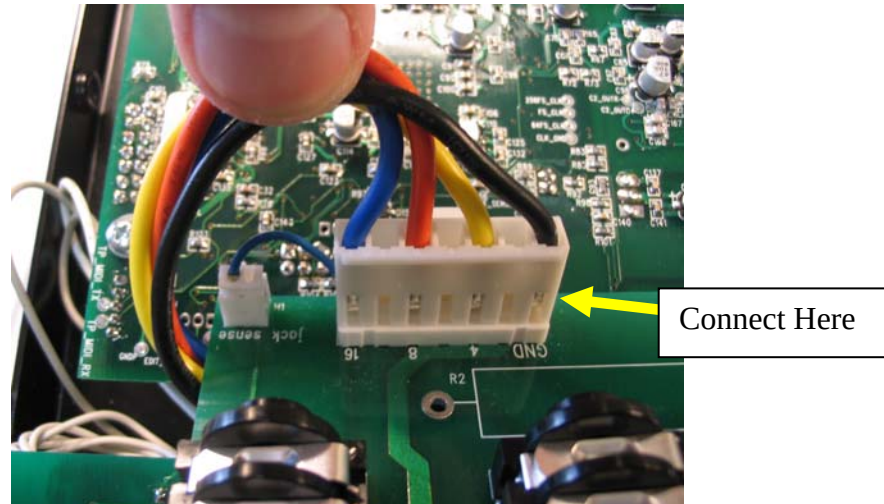
STEP 34

Connect the free end of the **21-34-0093-1** CABLE ASSY 1-COND to header H1 ‘jack sense’ on the PCBA SPKR OUT as shown.



STEP 35

Connect the OUTPUT TRANSFORMER secondary header as shown.



STEP 36

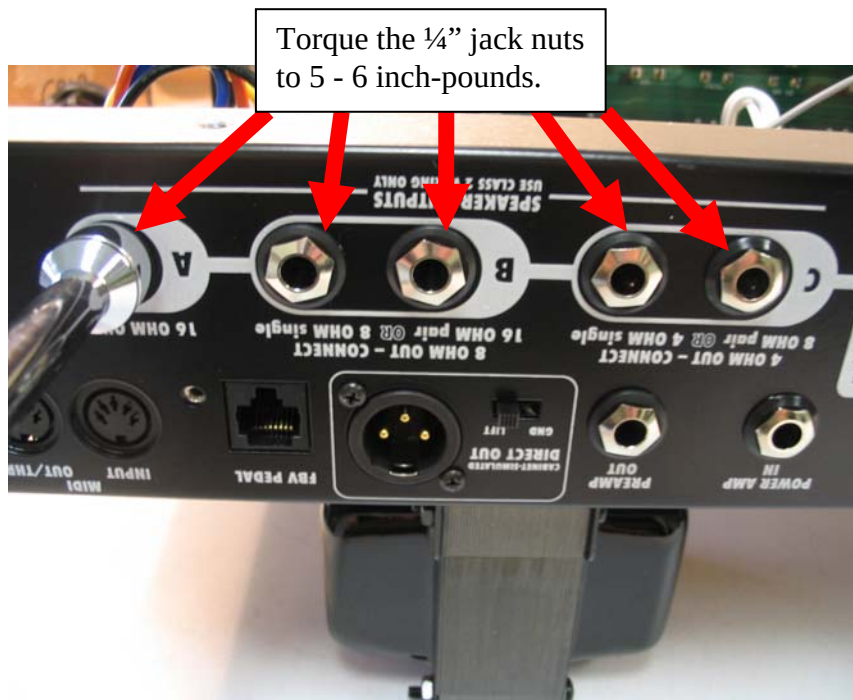
P/N required:

5 each chrome nut and shoulder washer (included with ¼" jack)



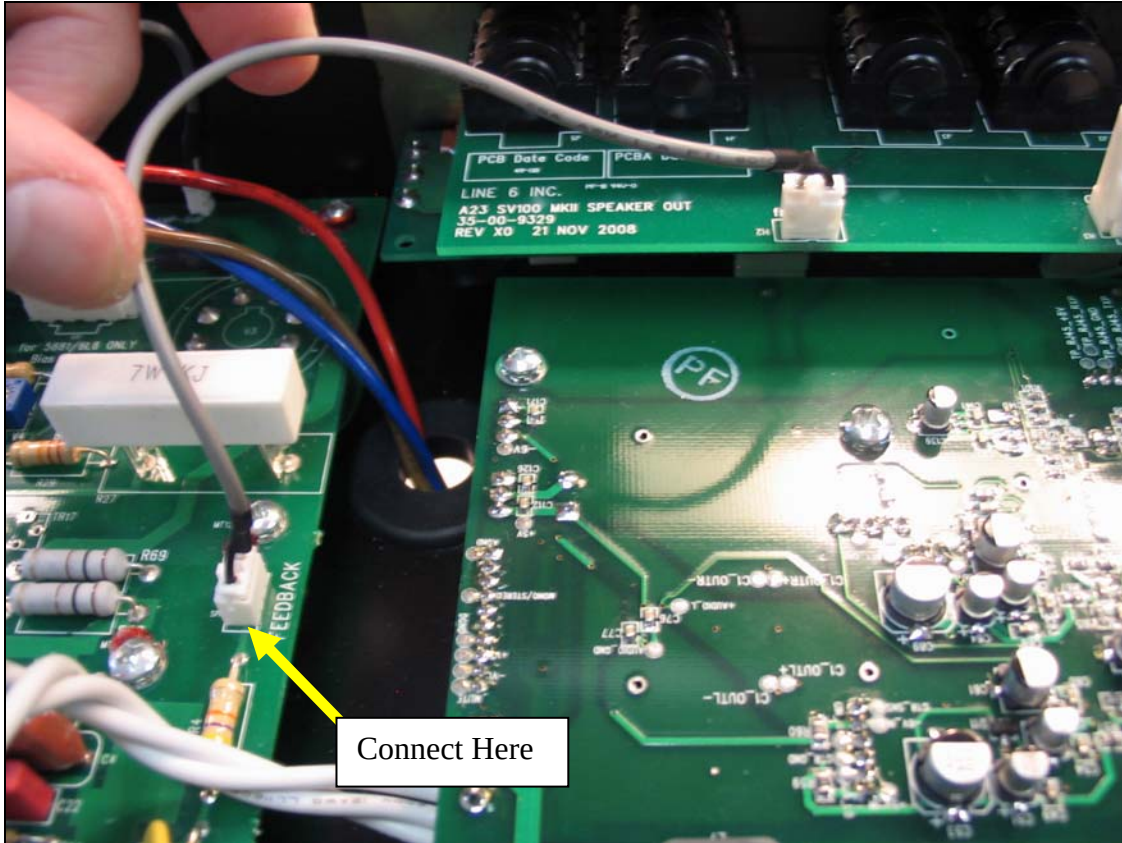
Secure PCBA SPEAKER OUT to CHASSIS as shown.

Torque each ¼" jack chrome nut to 5 - 6 inch-pounds (5 PL).



STEP 37

Connect the free end of the **-34-0097-1 CABLE ASSY 3-COND SHIELDED (Feedback)** to the header labeled **“FEEDBACK”** on the PCBA POWER AMP/SUPPLY as shown.

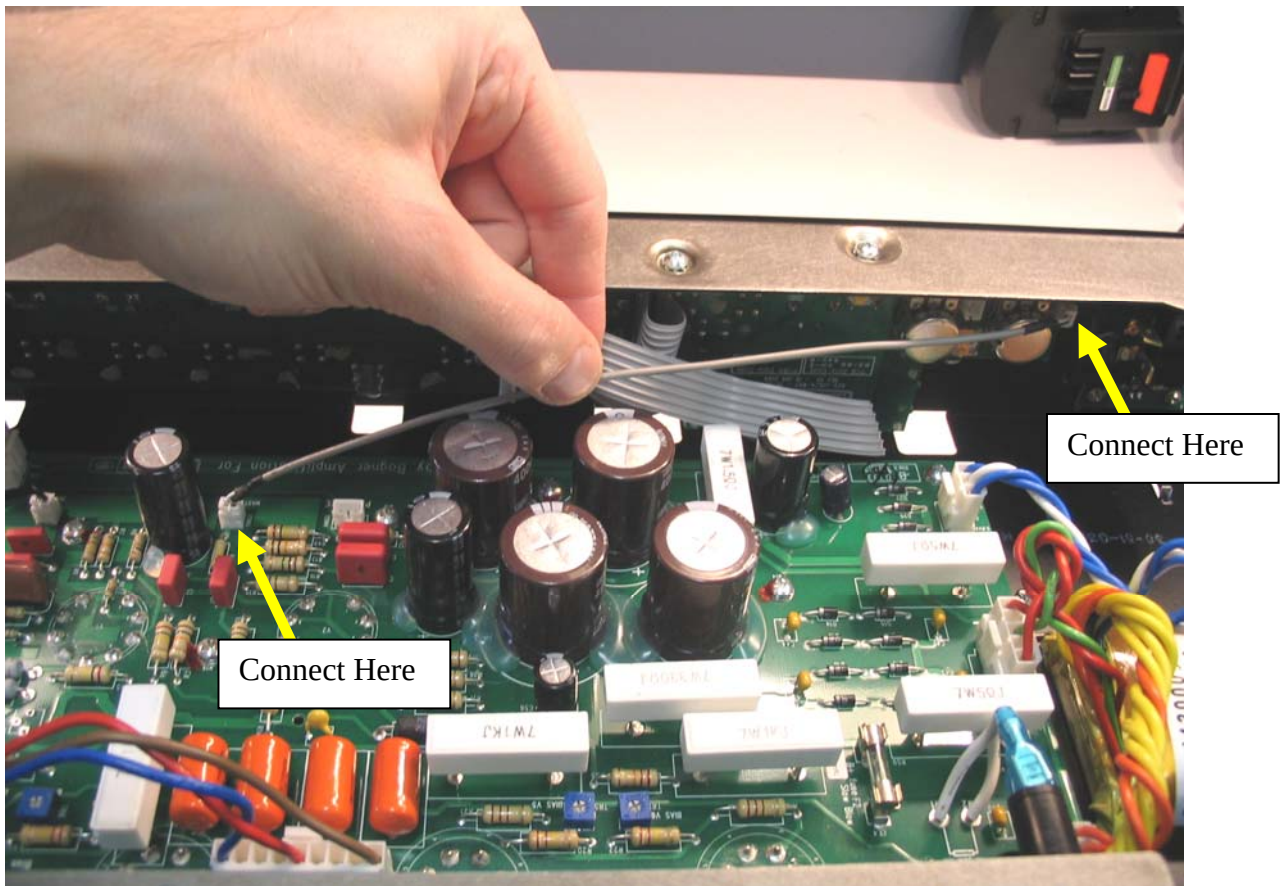


STEP 38

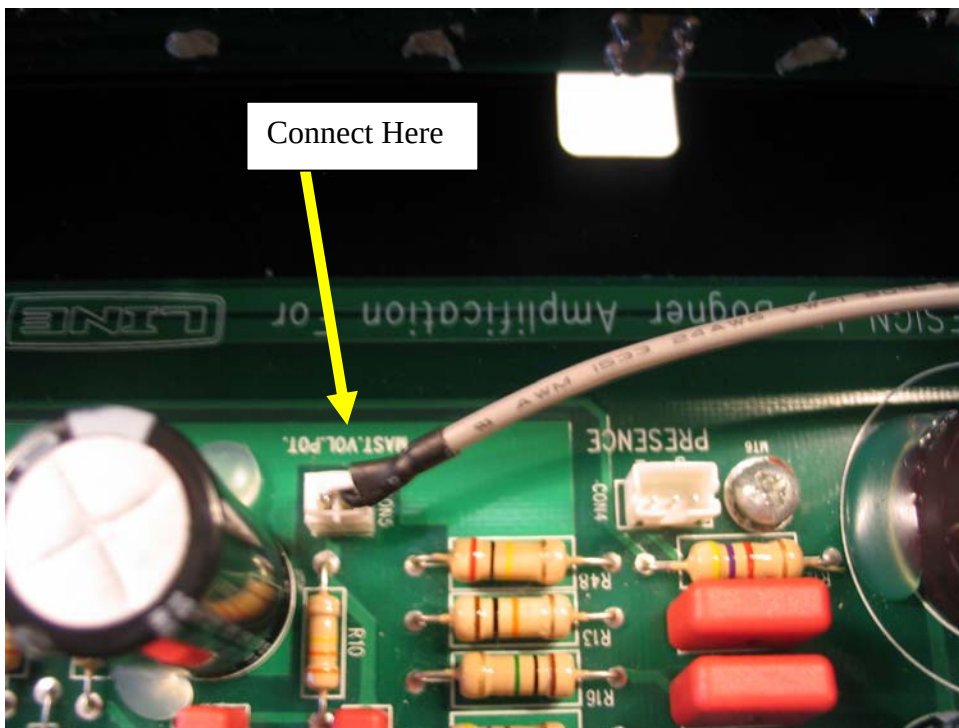
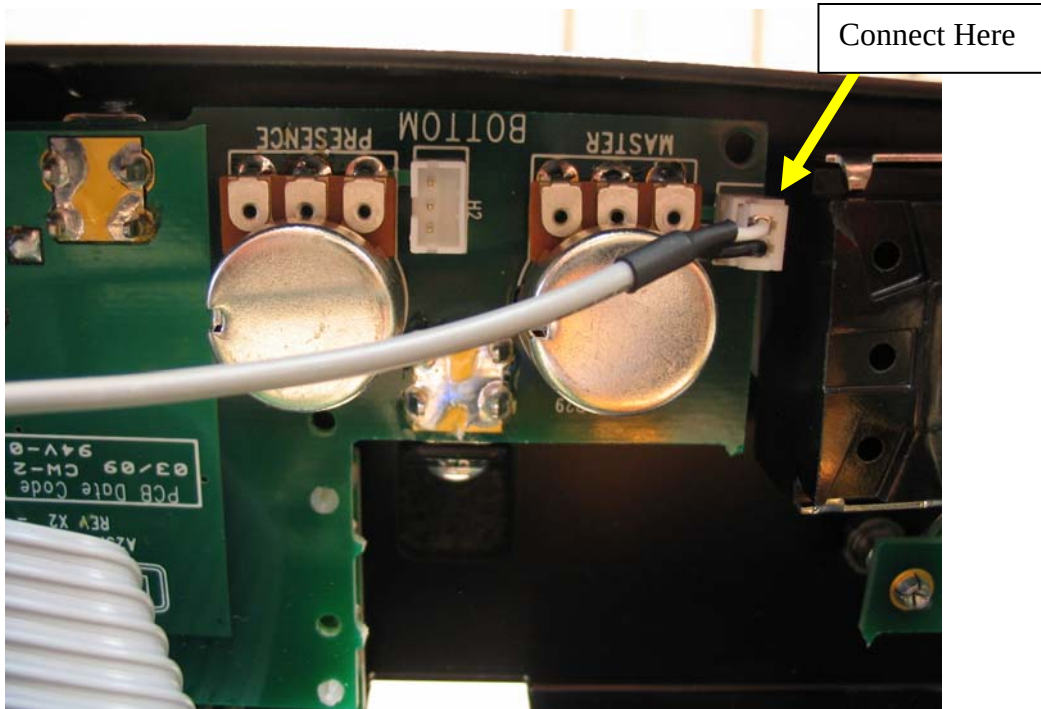
P/N required:

1 each **21-34-0101-3** CABLE ASSY 2-COND SHIELDED (master vol)

Connect the CABLE ASSY from the PCBA UI to the CON5 'MAST VOL POT' header on the Power Supply PCBA.



STEP 38 CONT'D

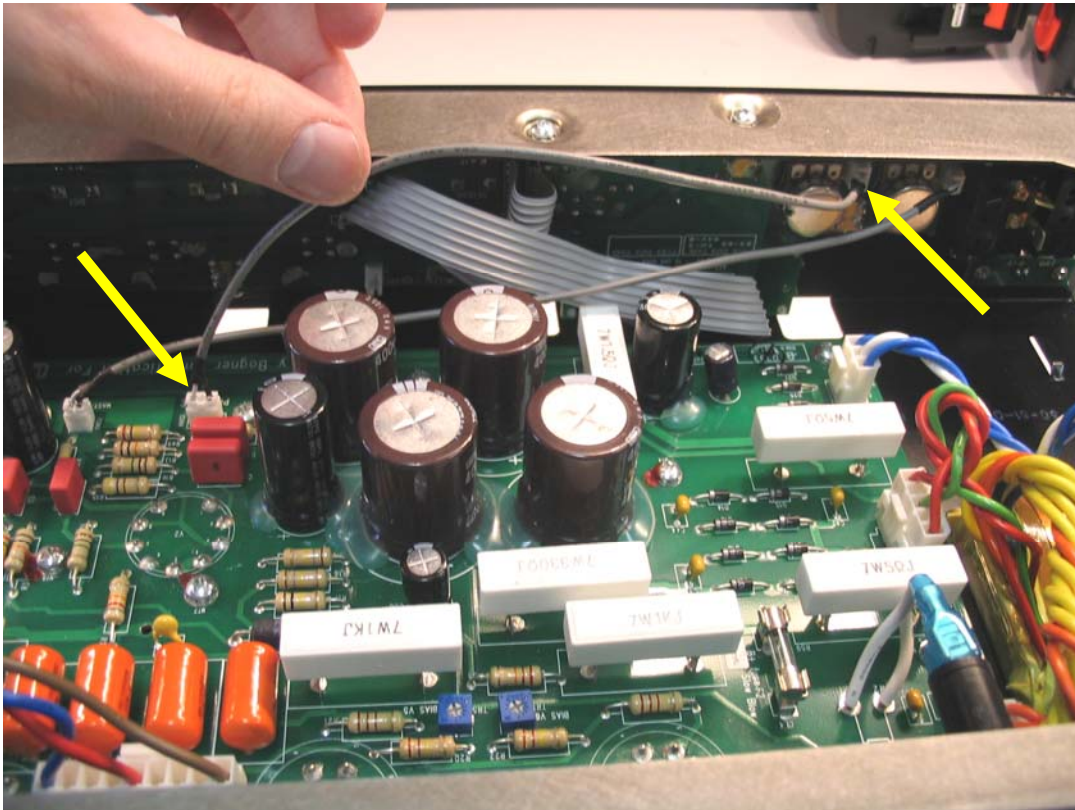


STEP 39

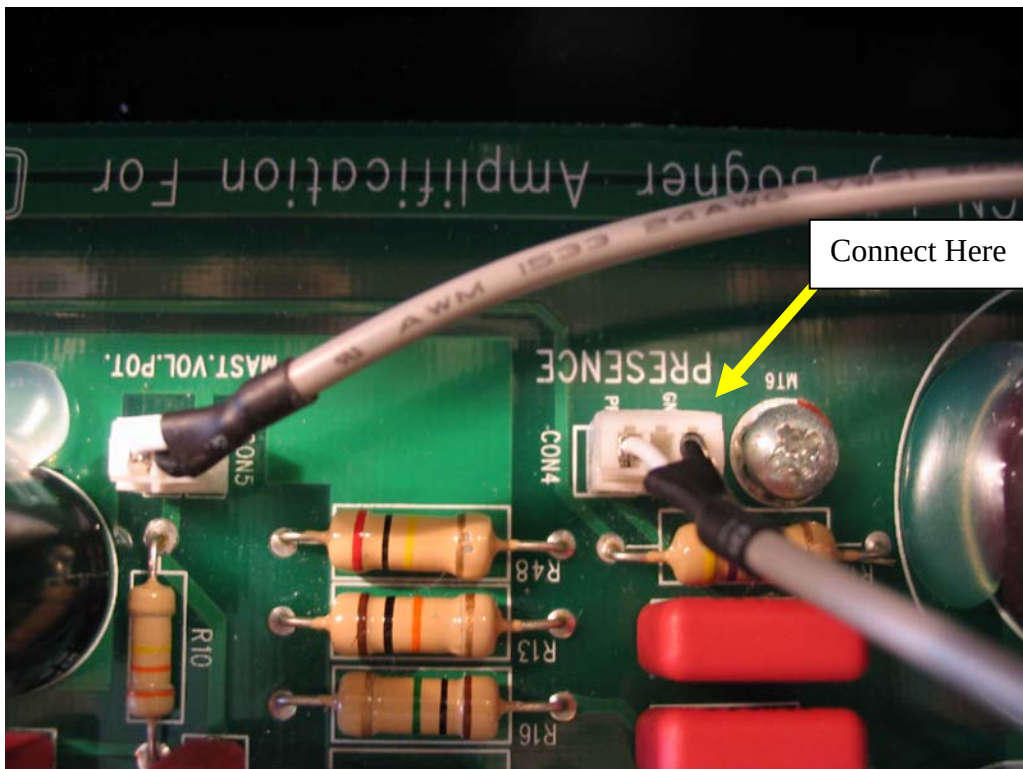
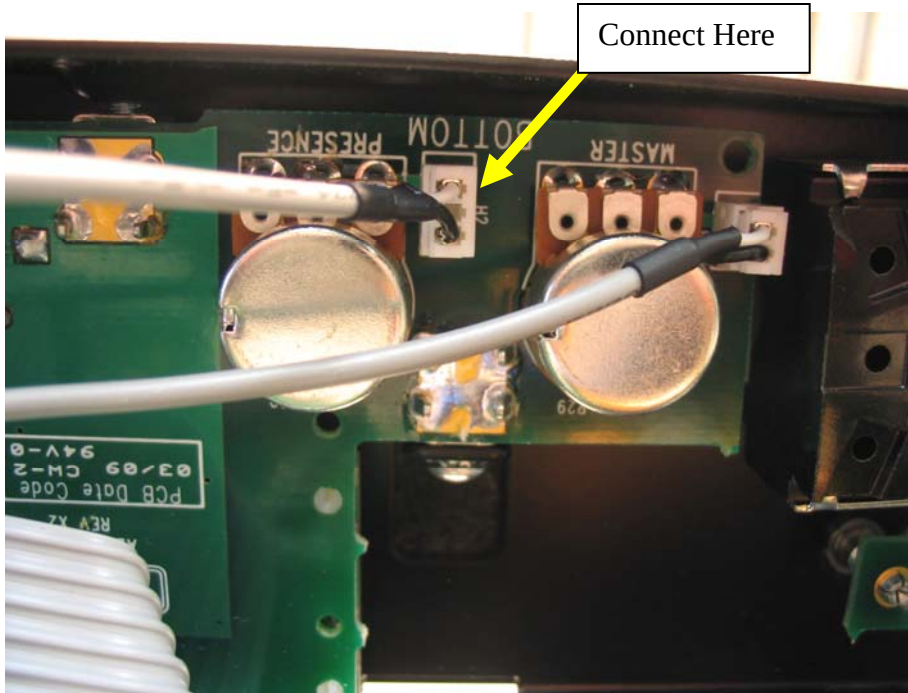
P/N required:

1 each **21-34-0097-3** CABLE ASSY SHIELDED (presence)

Connect the CABLE ASSY from the H2 header on the PCBA UI to the CON4
'PRESENCE' header on the Power Supply PCBA.



STEP 39 CONT'D



STEP 40

P/N required:

1 each **21-34-0135-3** CABLE ASSY (standby)



Connect the CABLE header to the 'Standby Switch' H9 Header on the POWER SUPPLY PCBA.

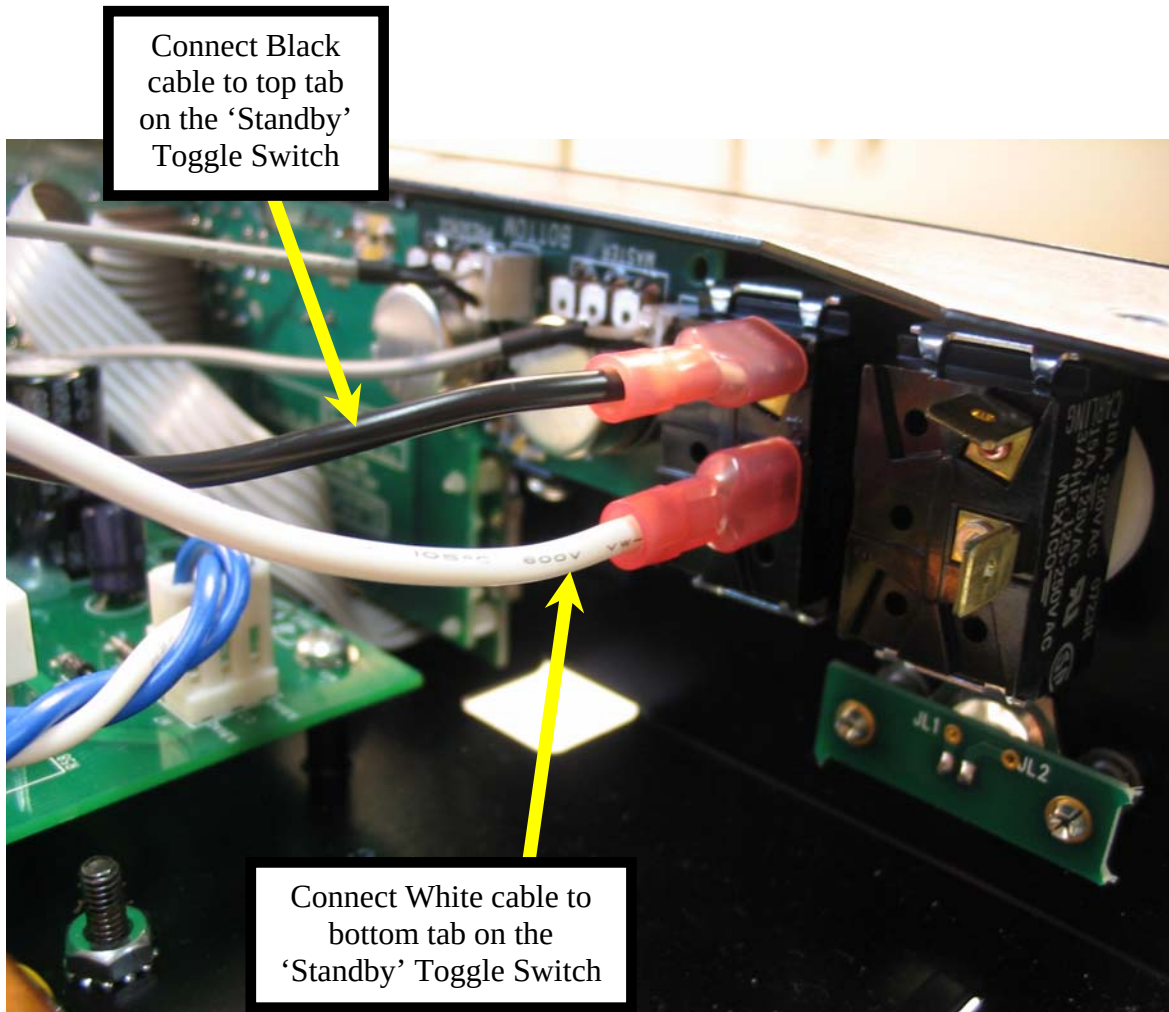


(step 40 is cont'd on next page)

STEP 40 Cont'd

Connect the black cable to the top tab on the 'Standby' Toggle Switch.

Connect the white cable to the bottom tab on the 'Standby' Toggle Switch.



STEP 41

P/N required:

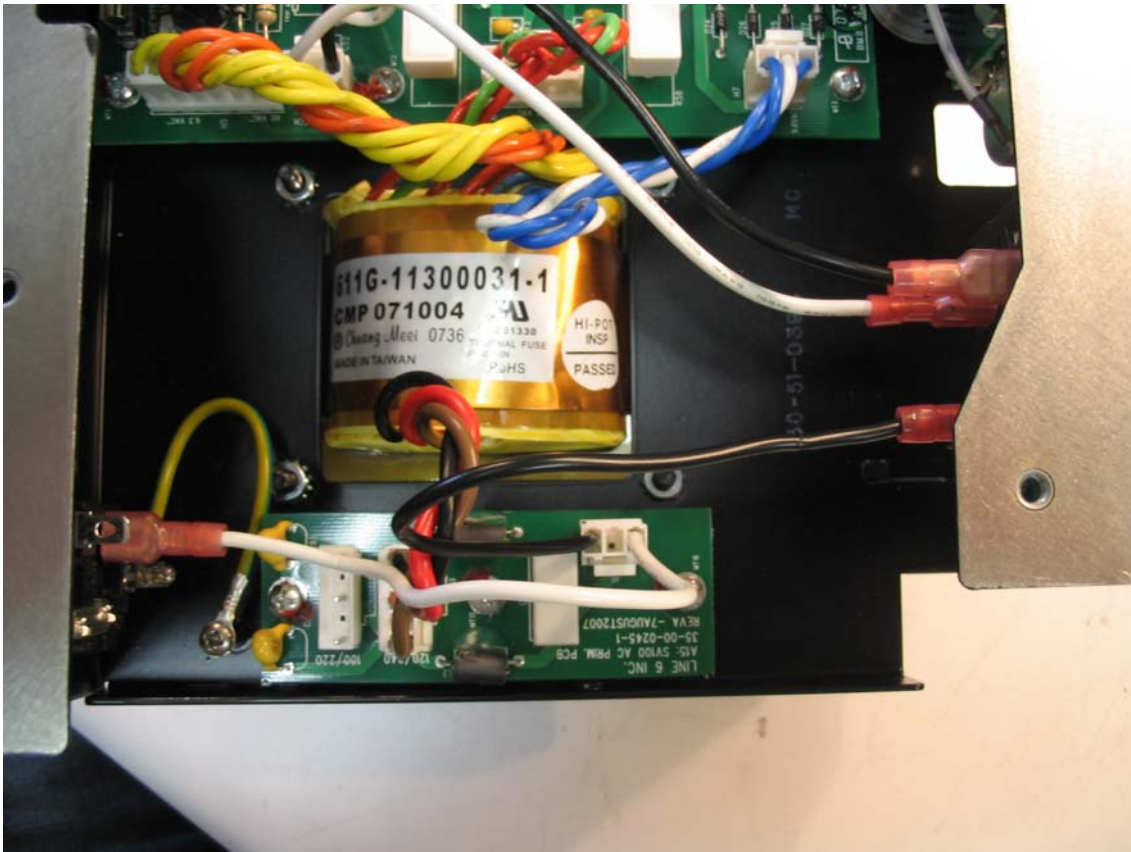
1 each **21-34-0135-3** CABLE ASSY (power)



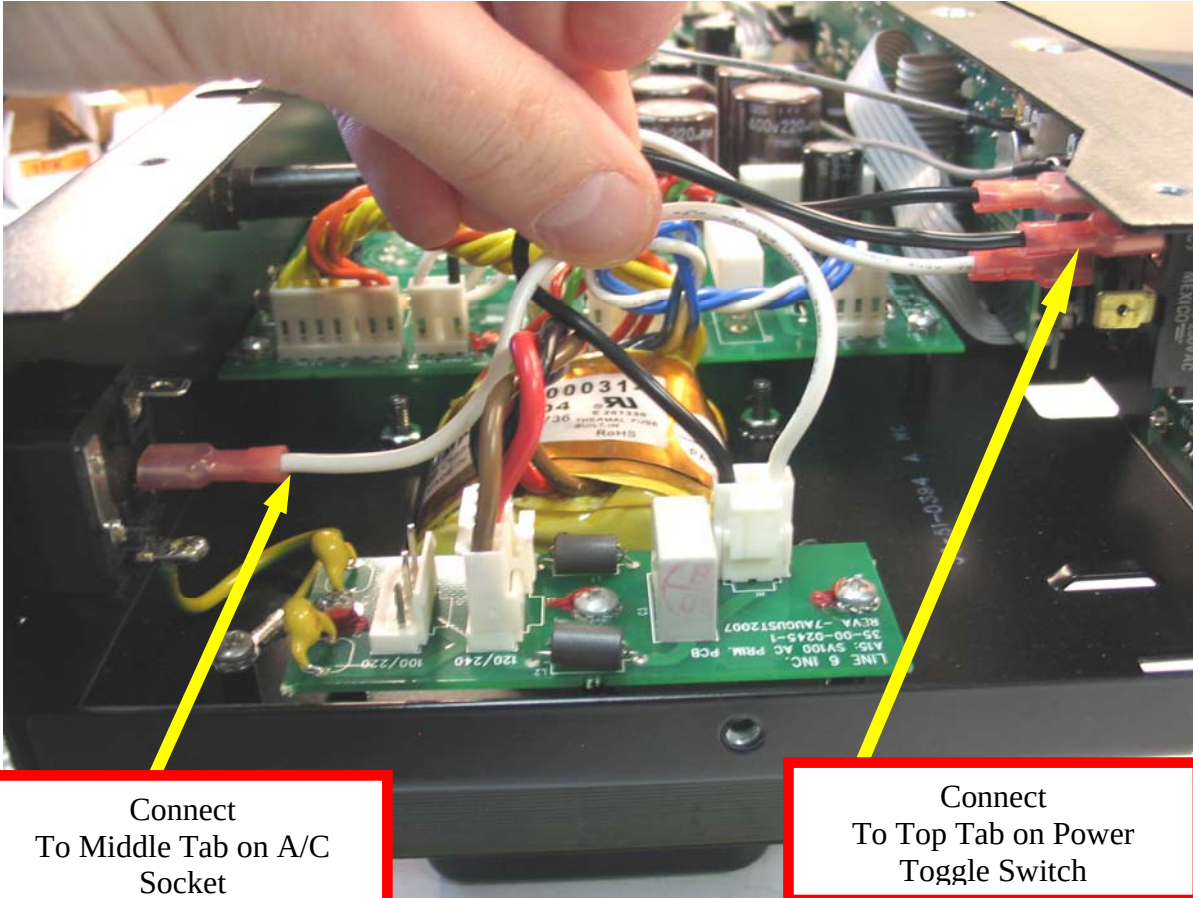
Connect the **header** to the **A/C POWER PCBA**.

Connect the **white cable** to the **middle tab** on the **A/C Receptacle**.

Connect the **black cable** to the **top tab** on the **'Power'** toggle switch.



STEP 41 CONT'D



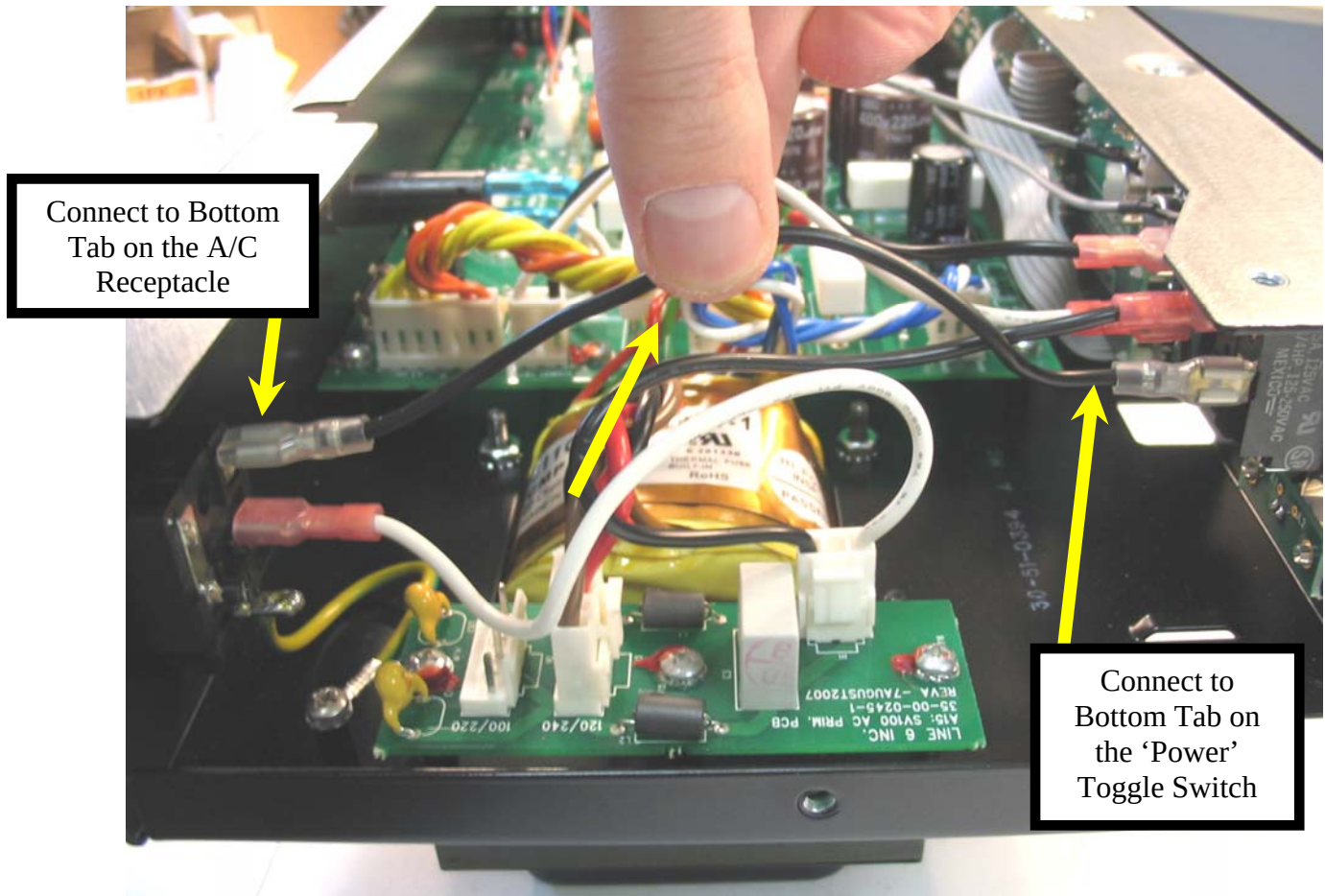
STEP 42

P/N required:

1 each **21-34-1023-1** CABLE ASSY 1-COND BLK

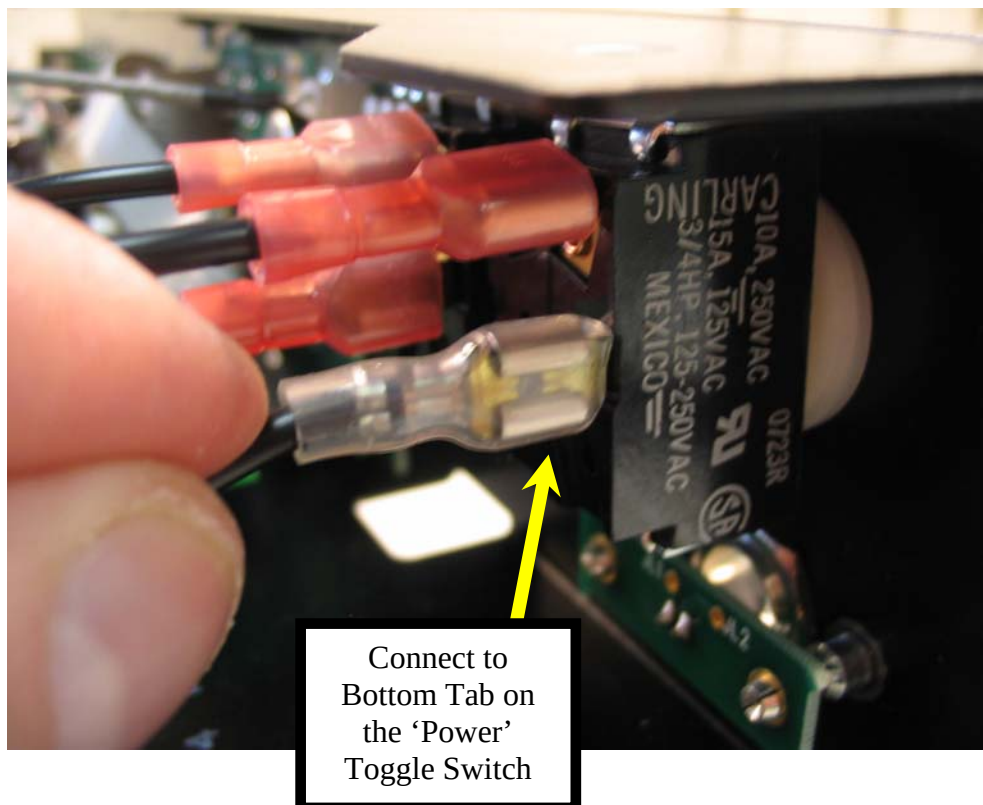
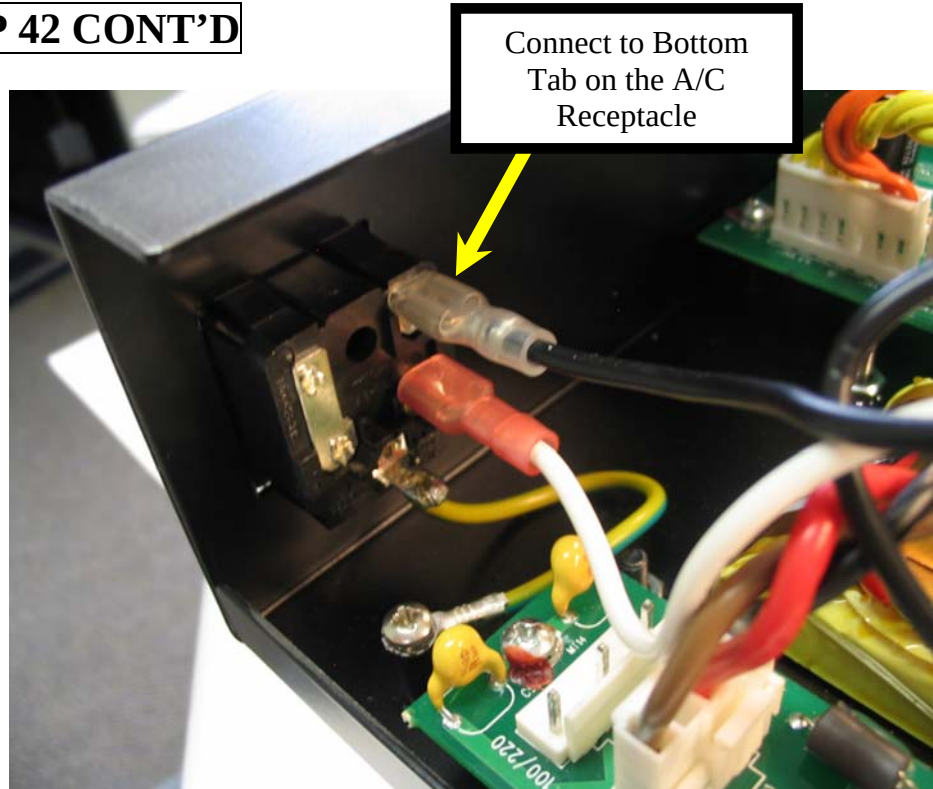
Connect the CABLE to the bottom tab on the A/C RECEPTACLE.

Connect the CABLE to the bottom tab on the 'Power' Toggle Switch.



(step 42 is cont'd on next page)

STEP 42 CONT'D

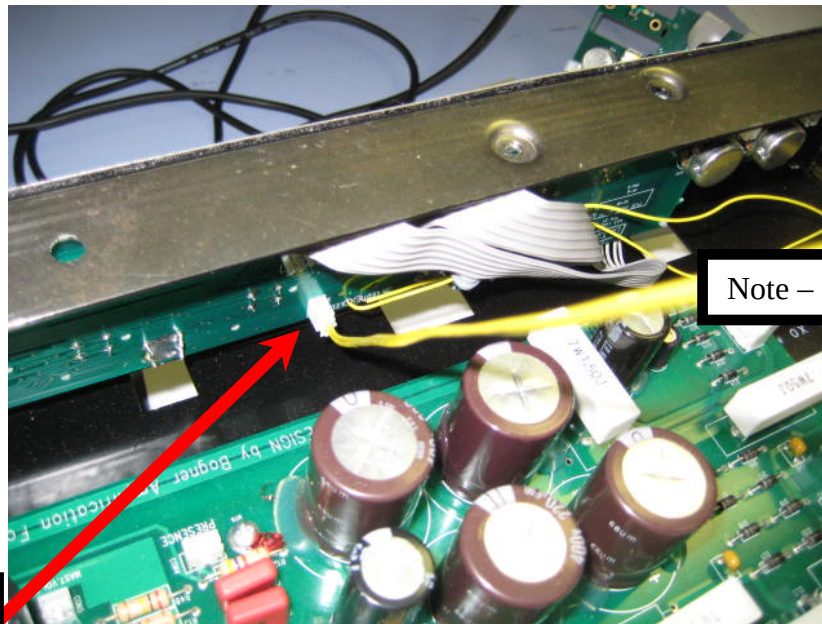


STEP 43

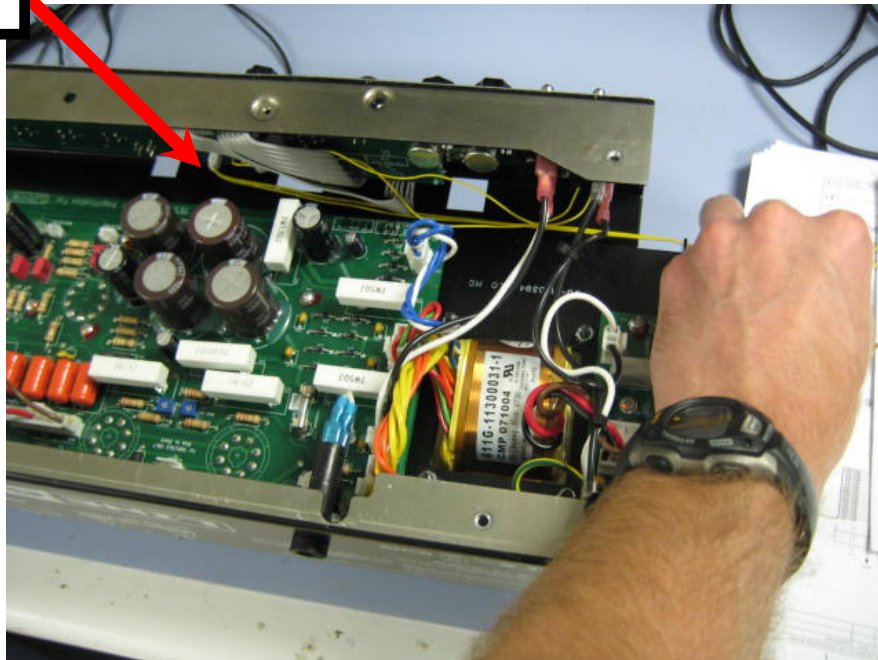
P/N required:

1 each **21-34-0076-3** CABLE ASSY 2-COND BLK 14.5"

Connect the **21-34-0076-3** CABLE ASSY to the H5 header on the U/I PCBA. Route cable outboard (towards side of chassis) as shown.



Install CABLE here
Header H5

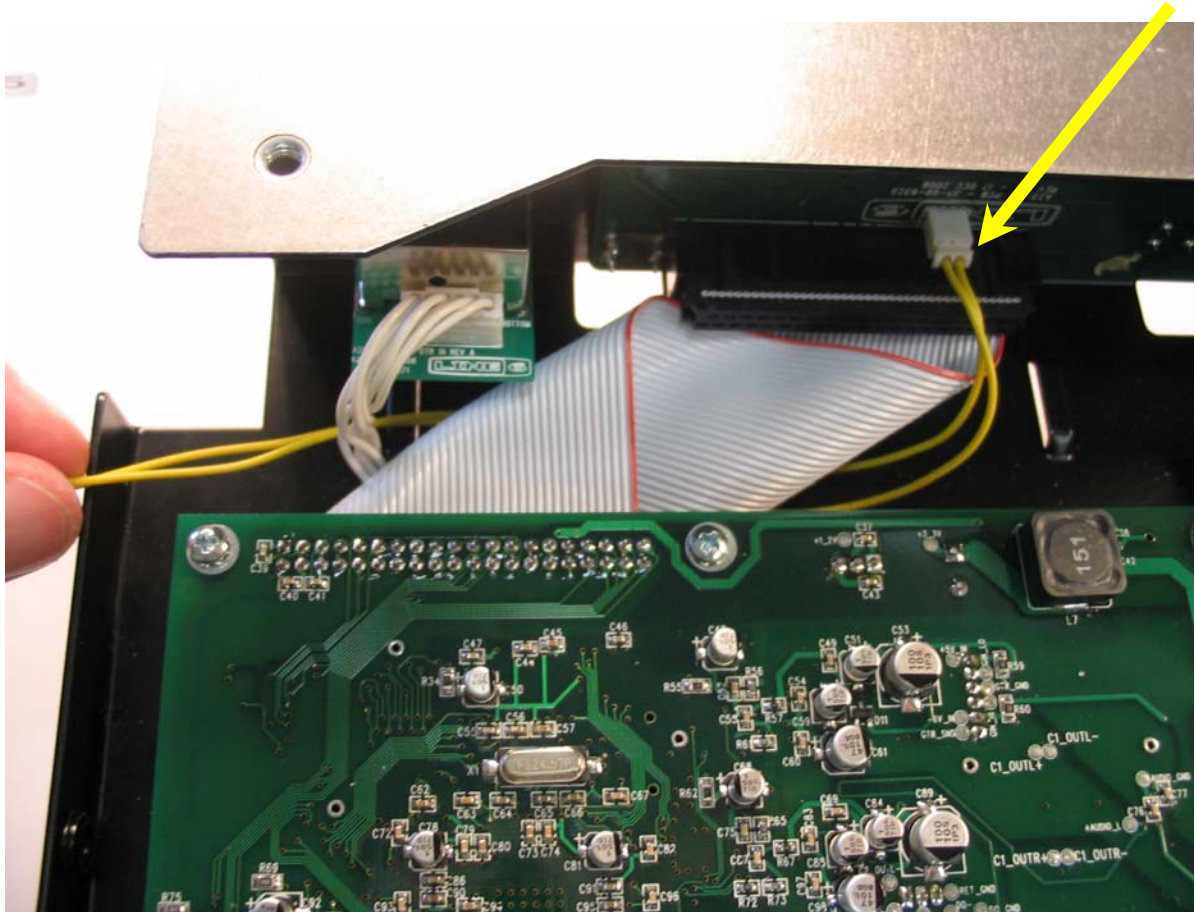


STEP 44

P/N required:

1 each **21-34-0076-7** CABLE ASSY 2-COND BLK 10.5”

Connect the **21-34-0076-7** CABLE ASSY to the indicated header on the PCBA UI.
Route cable outboard (towards side of chassis) as shown.



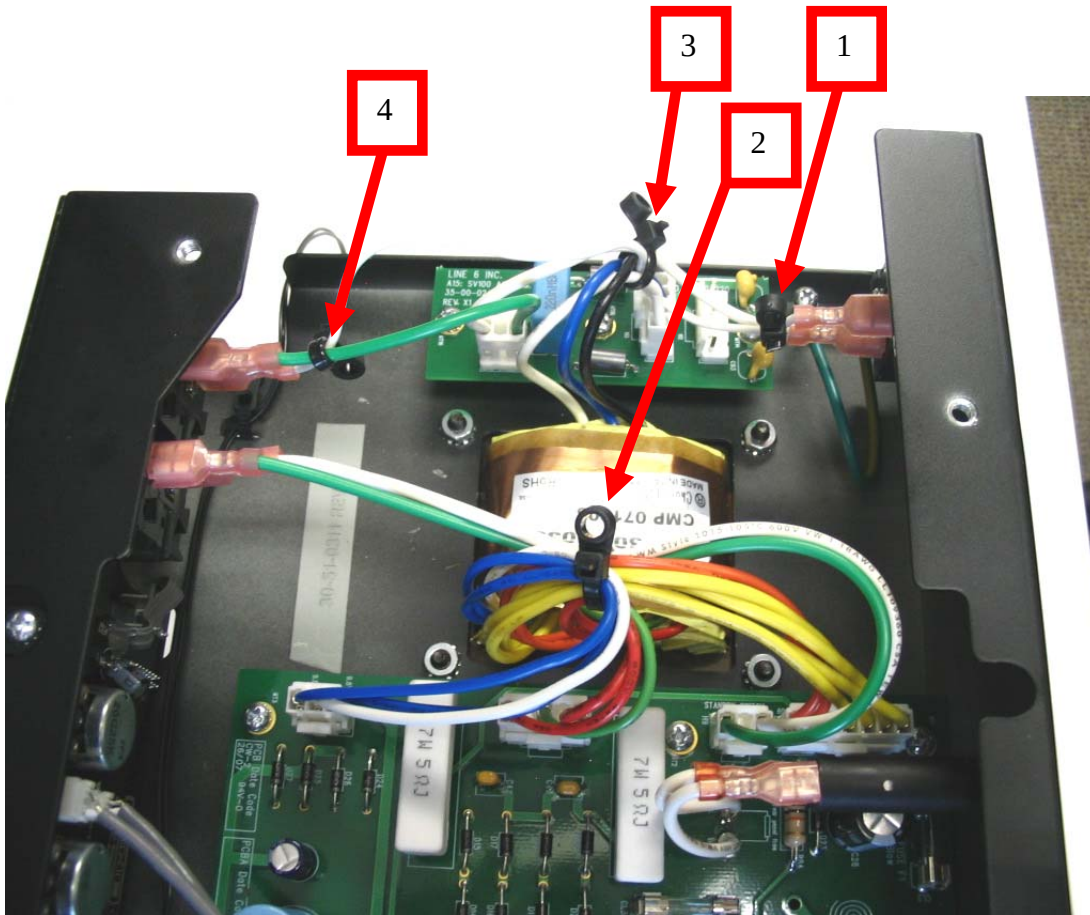
Note – cable will be black

STEP 45

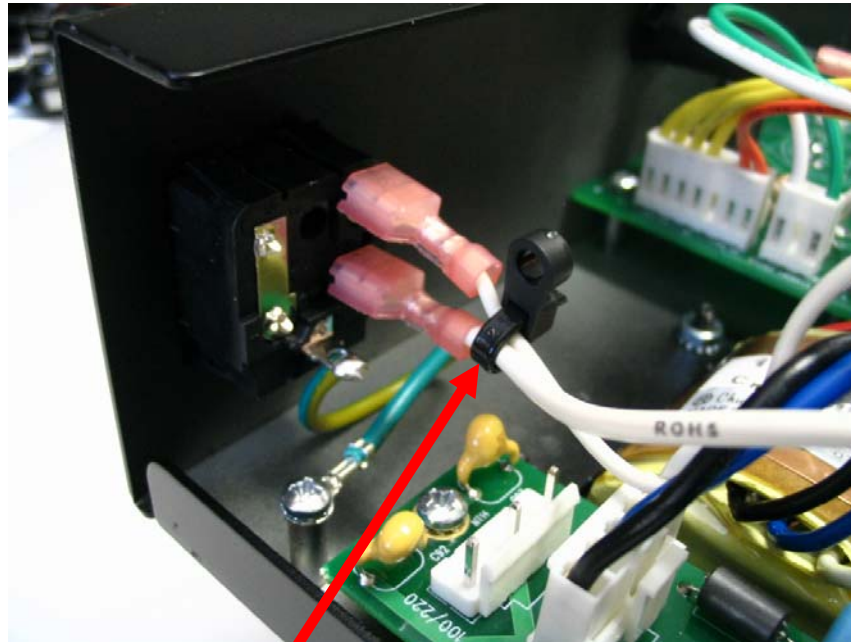
P/N required:
6 each **30-24-0003** CABLE-TIE 4" CLEAR

Install CABLE TIES as shown, 6 PL.

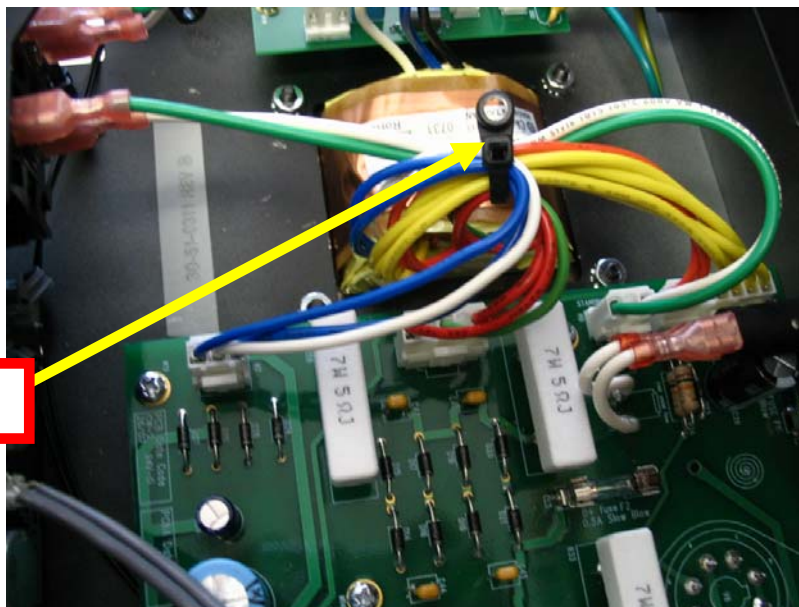
Clip off excess material from the CABLE TIES after installation.



STEP 45 CONT'D

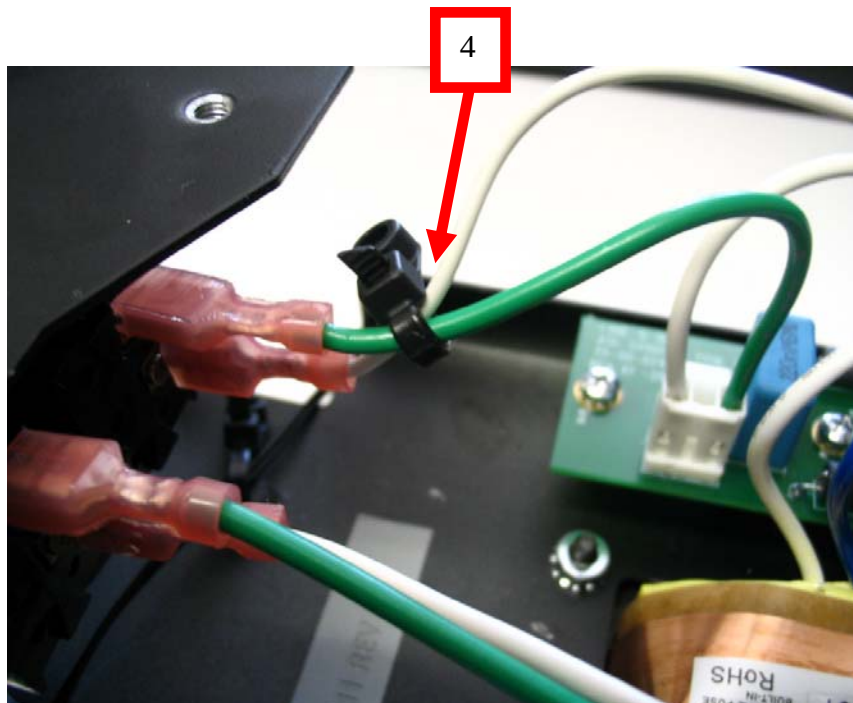
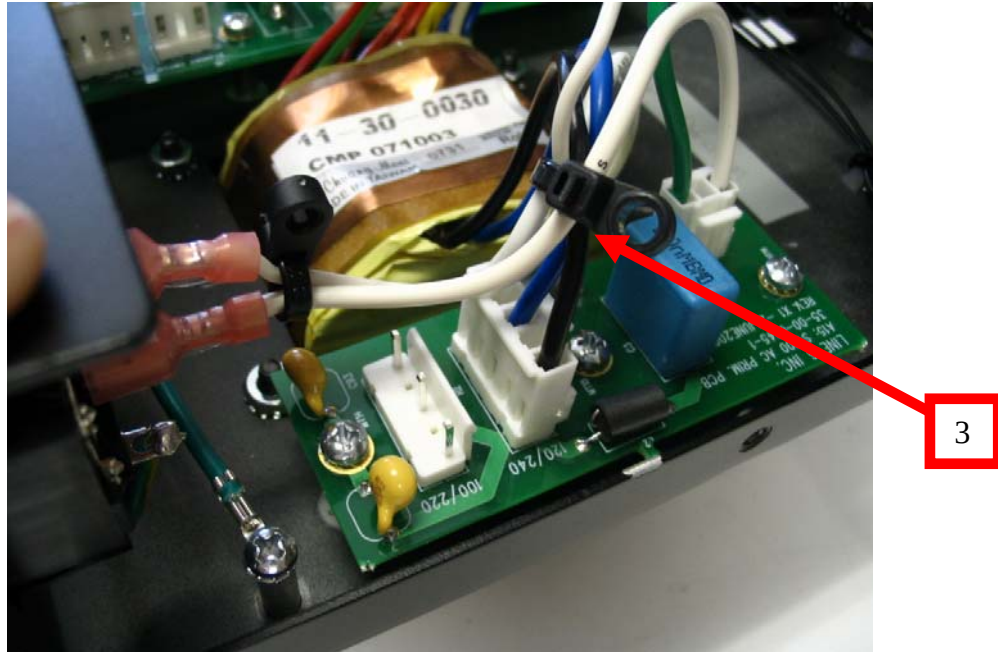


1



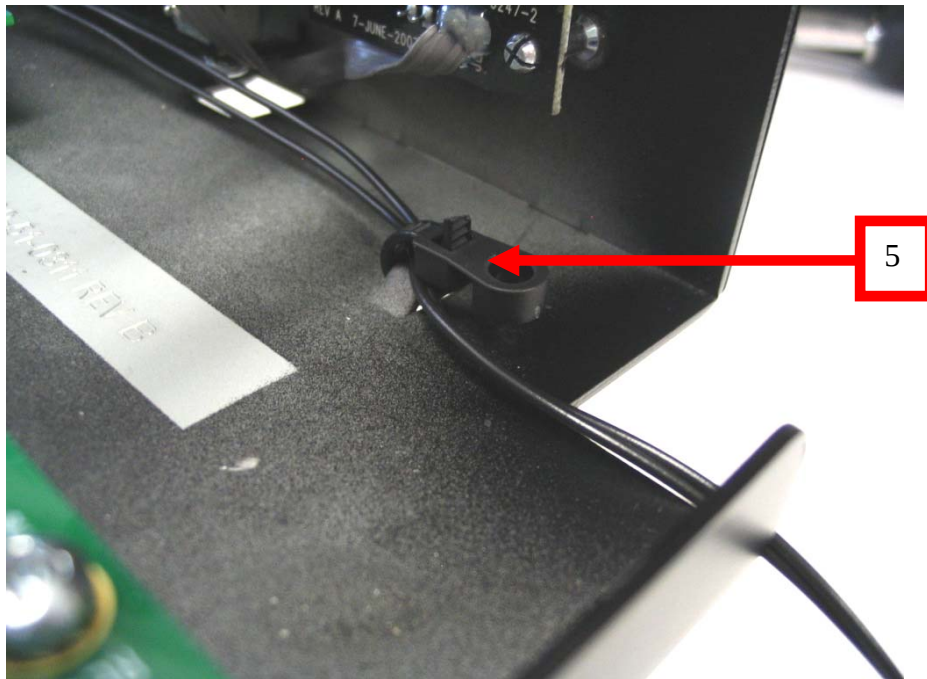
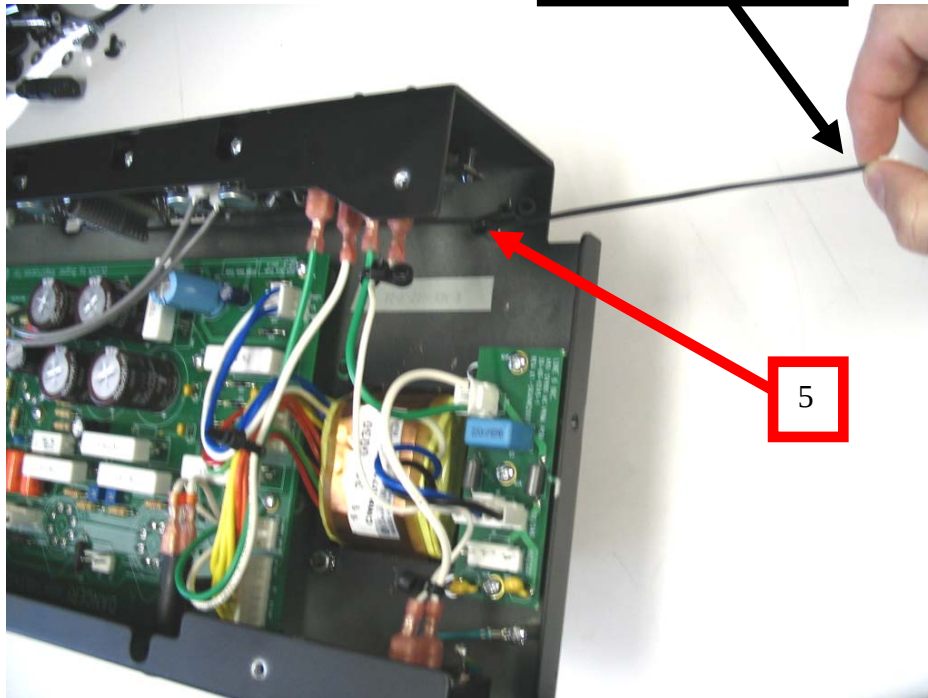
2

STEP 45 CONT'D

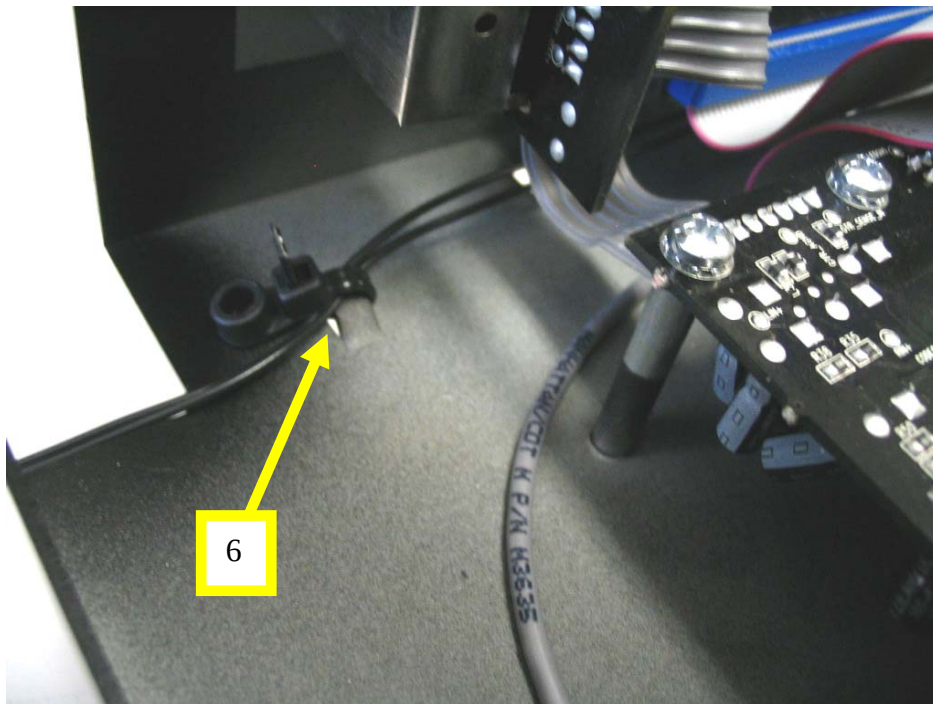
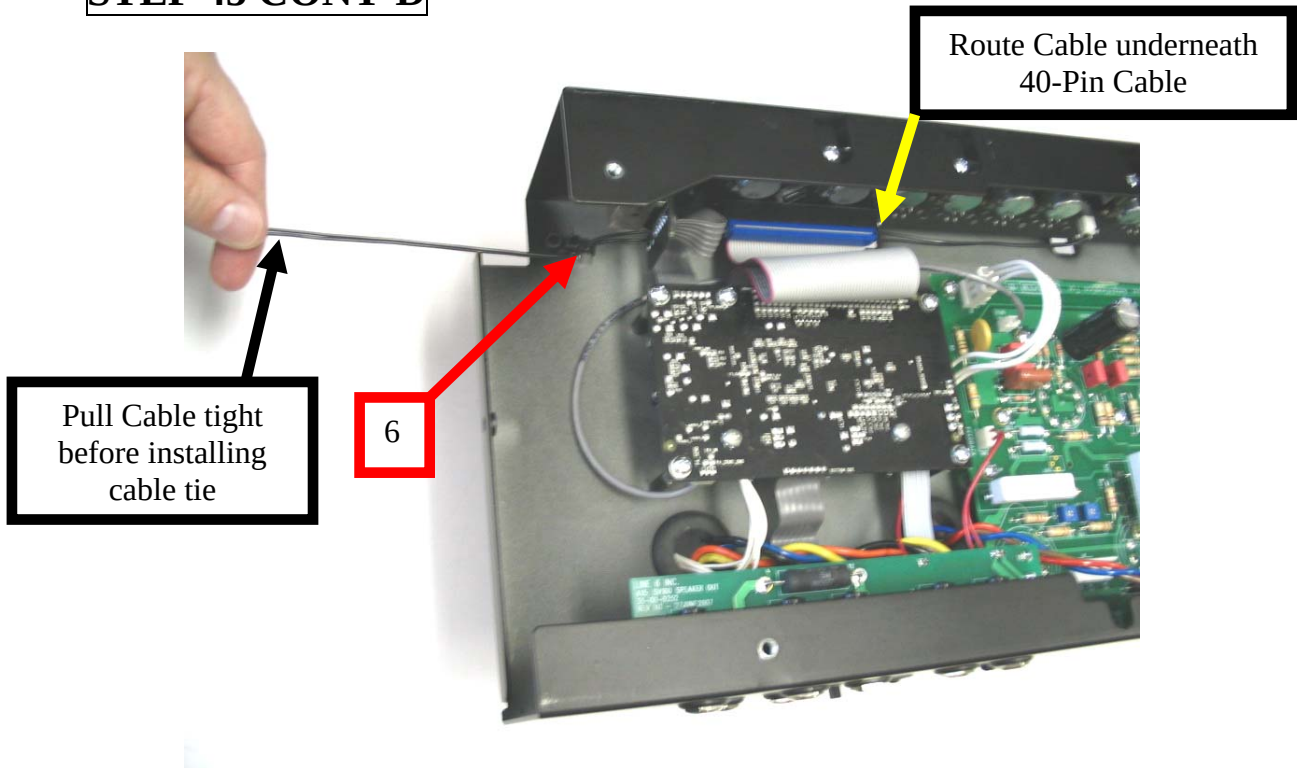


STEP 45 CONT'D

Pull Cable tight
before installing
cable tie



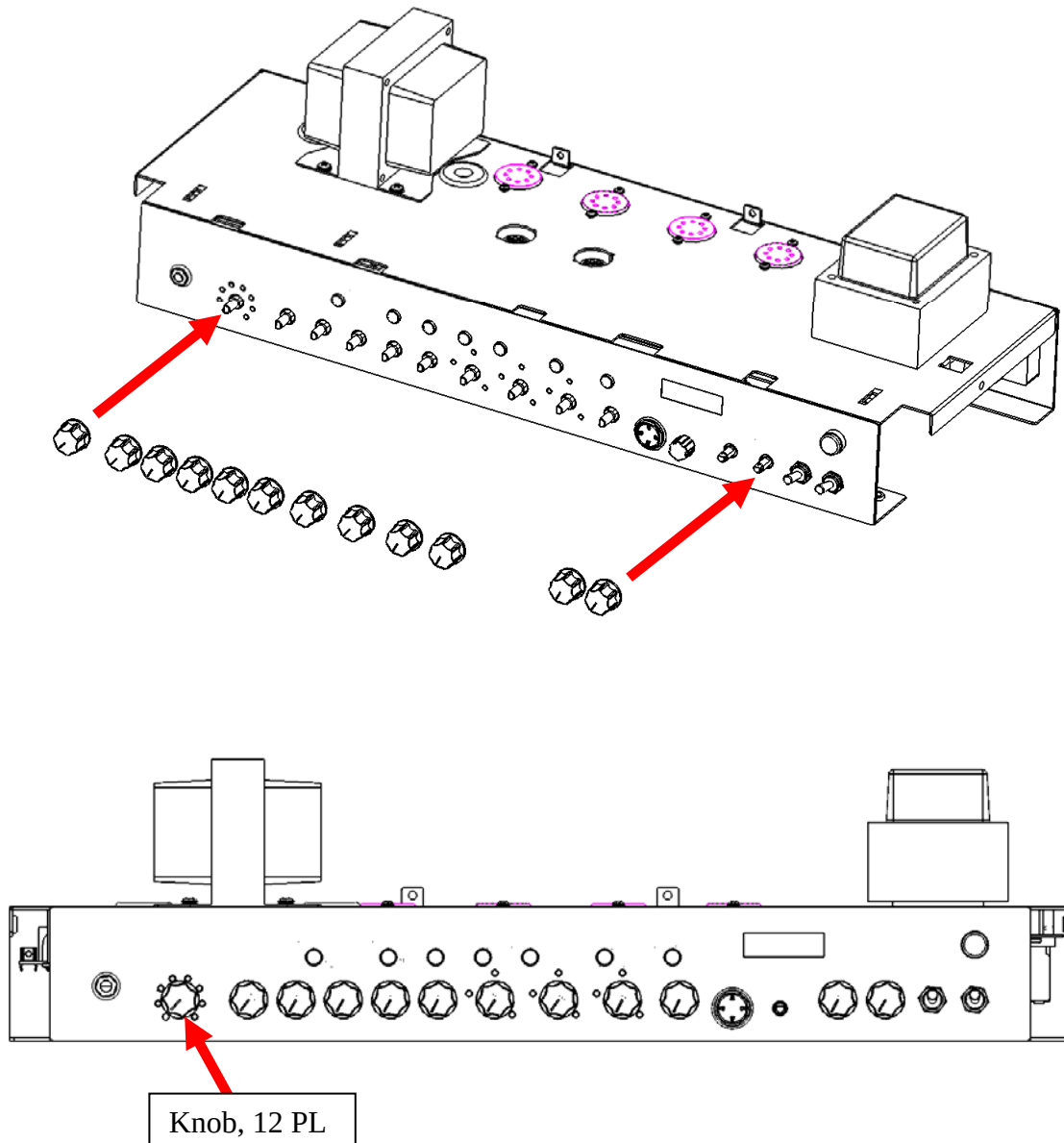
STEP 45 CONT'D



STEP 46

P/N required:
12 each **30-45-0020** KNOB

Press one KNOB fully onto the shaft of each potentiometer.





STEP 47

P/N required:

1 each **30-45-0027** KNOB ENCODER

Press one KNOB fully onto the shaft of the encoder.



STEP 48

P/N required:

4 each **30-21-0005** TUBE RETAINER

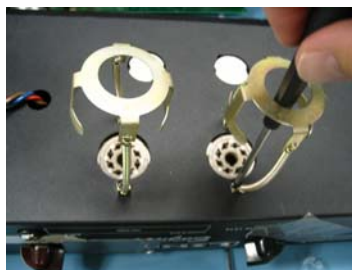
8 each **30-00-0126** SCREW #5-40 x 0.300 SELF-TAPPING

Use fixture shown below (or similar) to support the PCBA during screw installation.



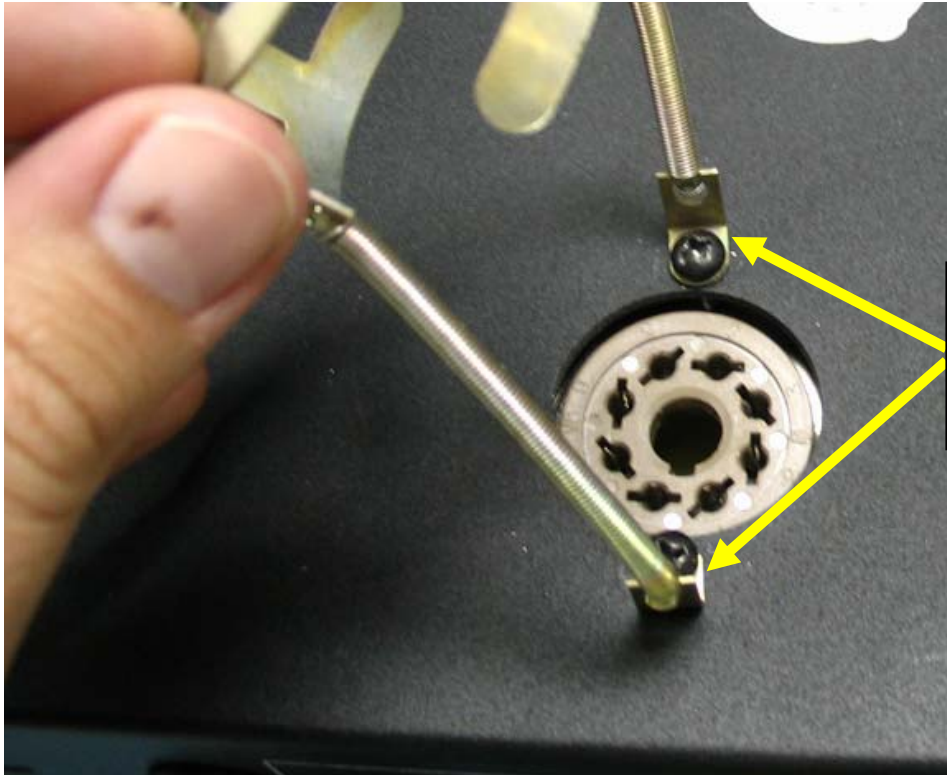
Kwanasia Fixture

Secure each TUBE RETAINER using 2 SCREWS. Align the mounting tabs of the TUBE RETAINERS as shown. Turn the SCREWS until they are fully seated.



Step 48 is continued on the next page

STEP 48 Continued



Align the mounting
tabs of the TUBE
RETAINERS as
shown, 4 PL

STEP 49

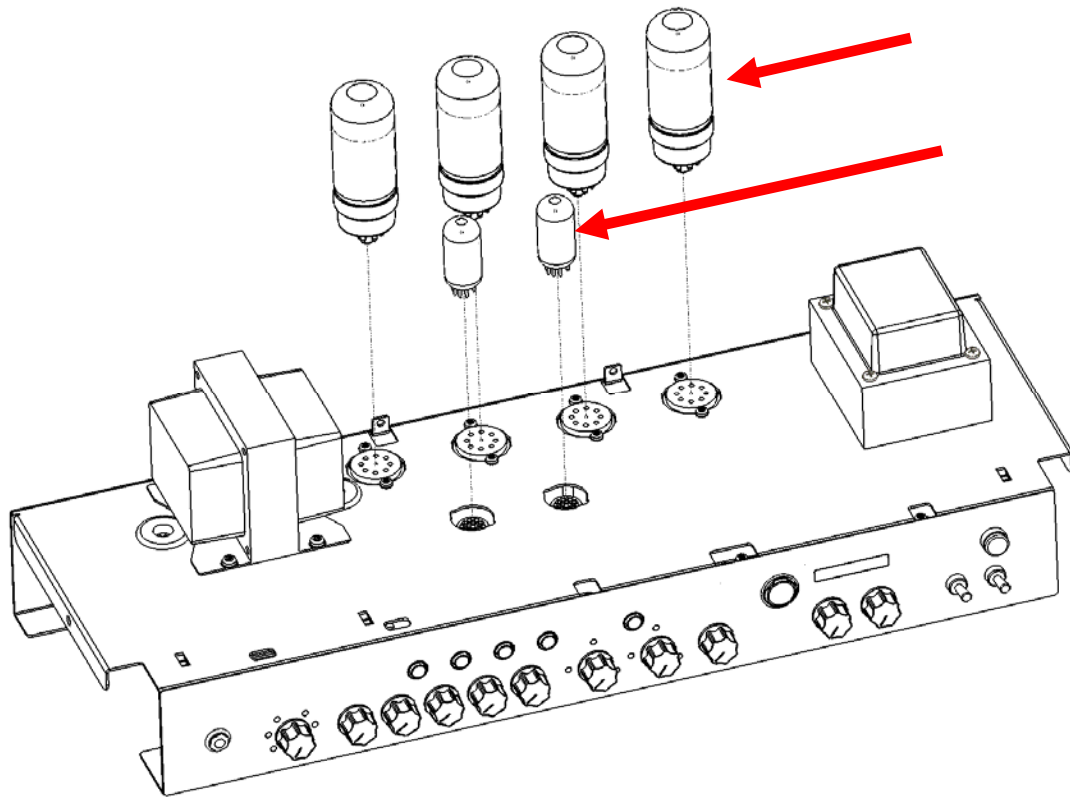
P/N required:

2 each **11-02-0000** TUBE 12AX7

1 each **11-02-0002** TUBE 5881/6L6 (**MATCHED QUARTET**)

Push one TUBE 12AX7 into each small tube socket on the bottom of the CHASSIS.

Push one TUBE 5881/6L6 into each large tube socket on the bottom of the CHASSIS.



Step 49 is continued on the next page

STEP 49 CONT'D

Extend the springs on the TUBE RETAINERS to locate the TUBE RETAINERS onto the end of each TUBE 5881/6L6 as shown, 4 PL.





STEP 50

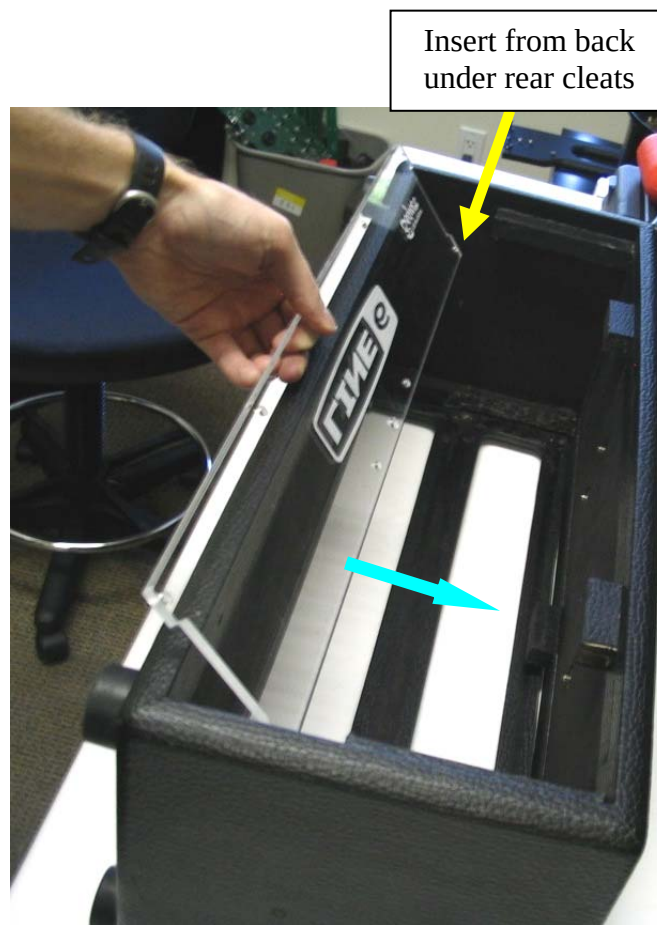
P/N required:

1 each **50-03-0048** CABINET ASSY

1 each **30-27-0279** LOGO PANEL

Insert LOGO PANEL into CABINET ASSY as shown.

CAUTION – wear protective gloves during this step to avoid getting fingerprints on the LOGO PANEL.



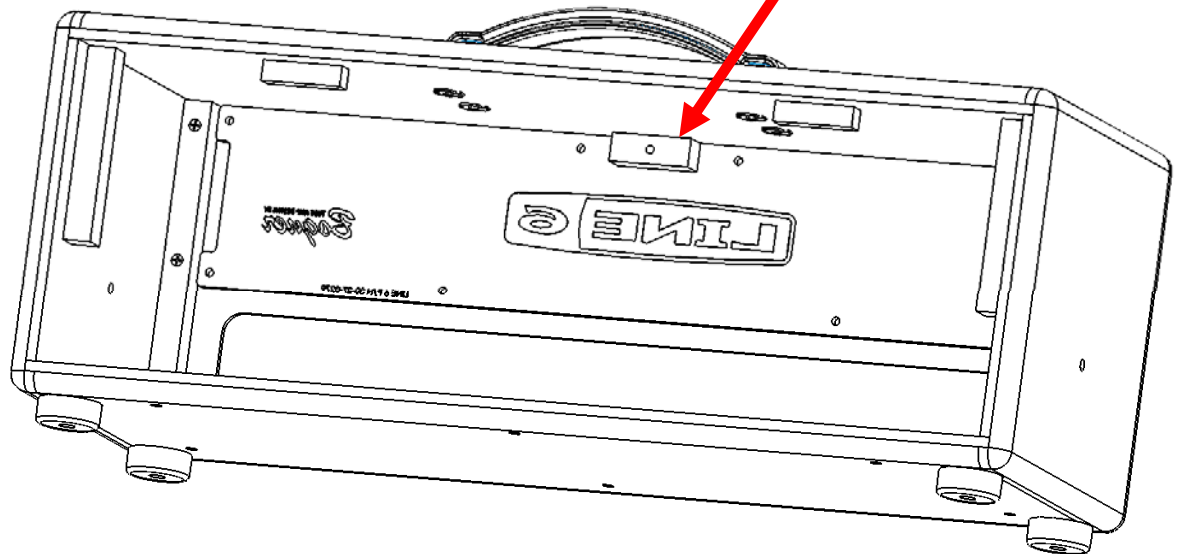
Step 50 is continued on next page



STEP 50 CONT'D



Lay LOGO PANEL
flat and push up to
cabinet top panel



Center CLEAT
shall be behind
LOGO PANEL

STEP 51

P/N required:

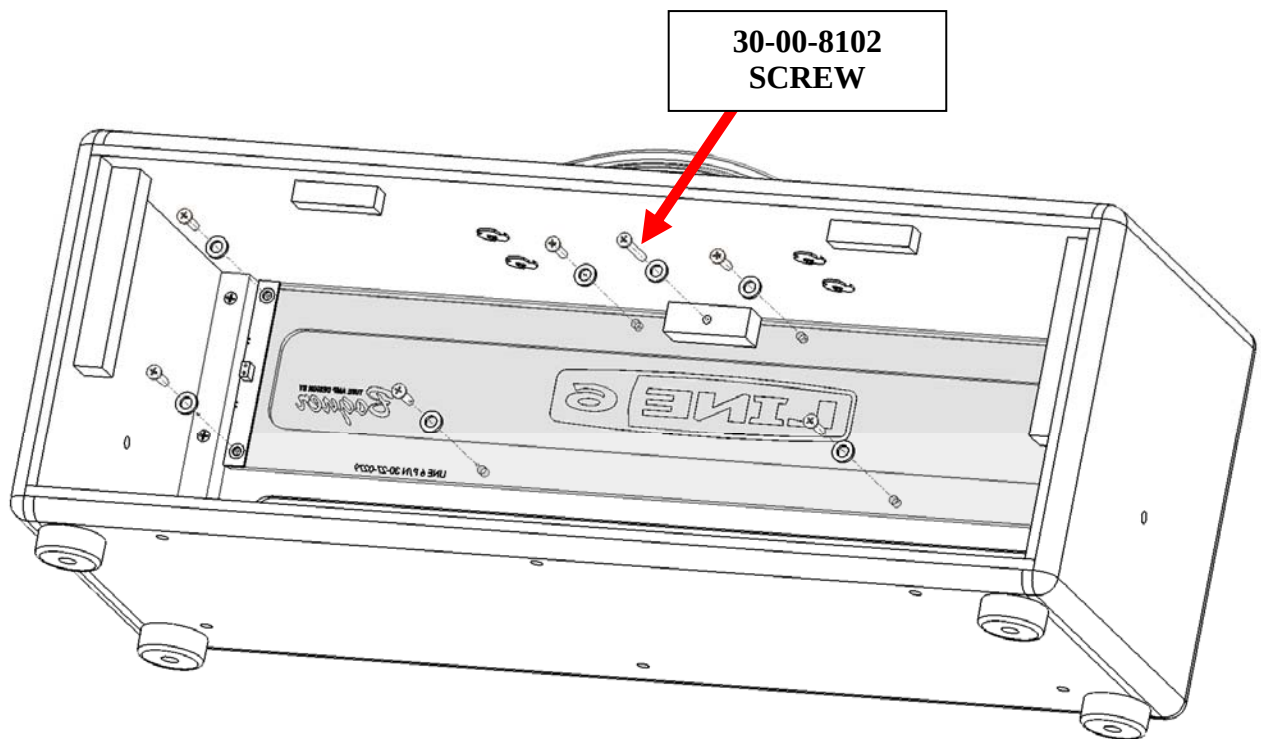
2 each **50-02-0249** PCBA SV LED BOARD

8 each **30-00-0812** SCREW #8 x 0.75 WOOD BLK

1 each **30-00-8102** SCREW #8 x 1.5 WOOD BLK

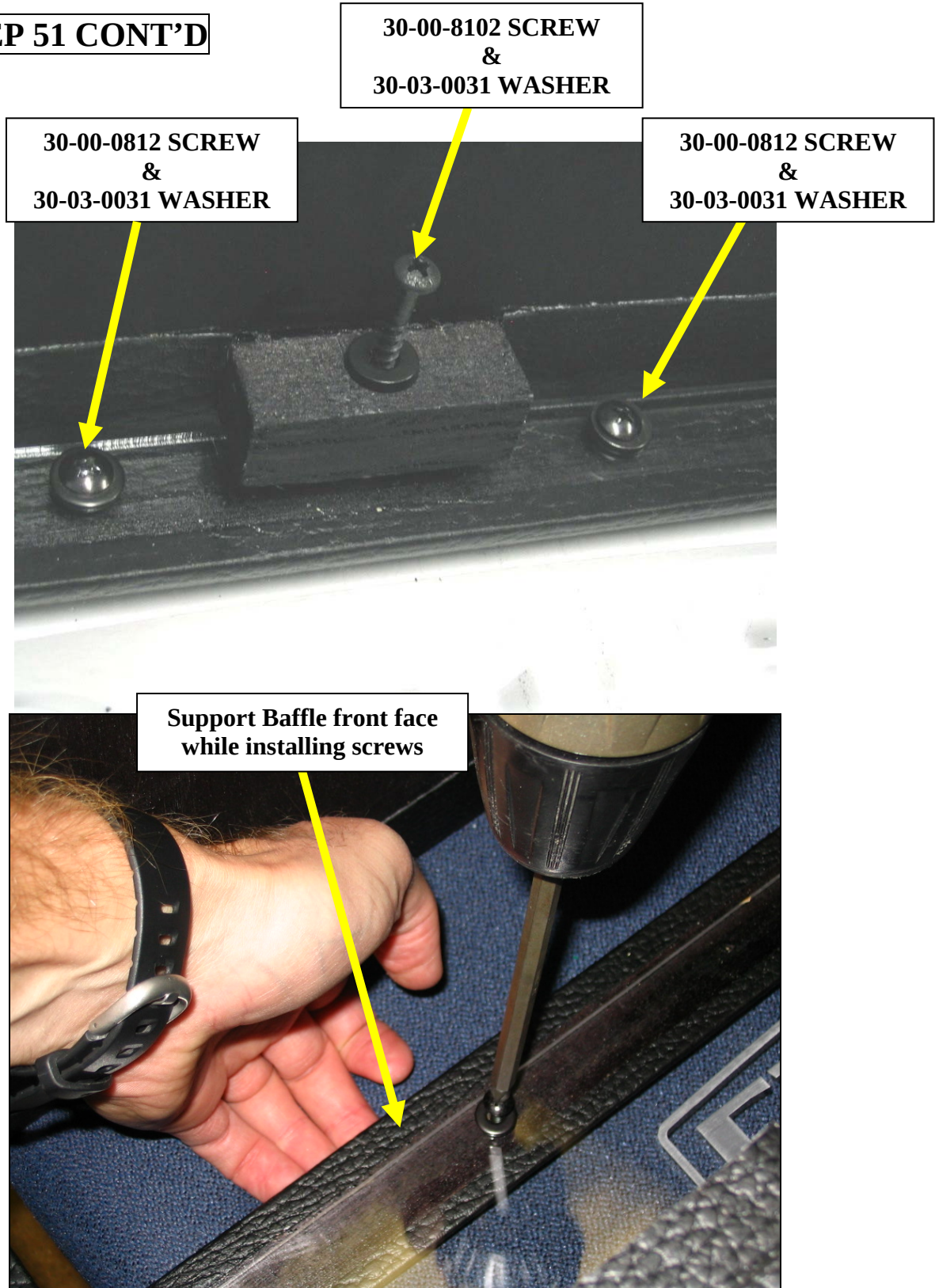
9 each **30-03-0031** WSHR FL .50 OD x .28 ID x .08 STL BLK OXIDE

Secure the LOGO PANEL using the following fastening scheme. Torque each screw to 8-10 in-lbs.



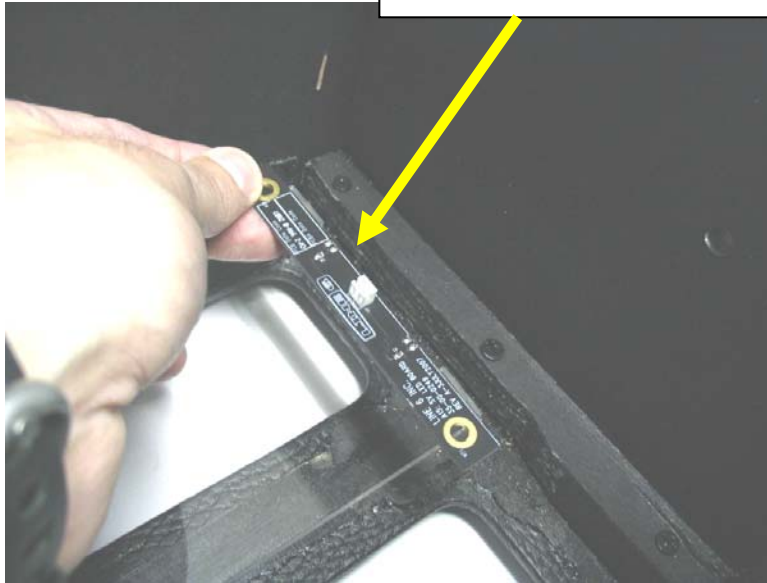
Step 51 is continued on next page

STEP 51 CONT'D

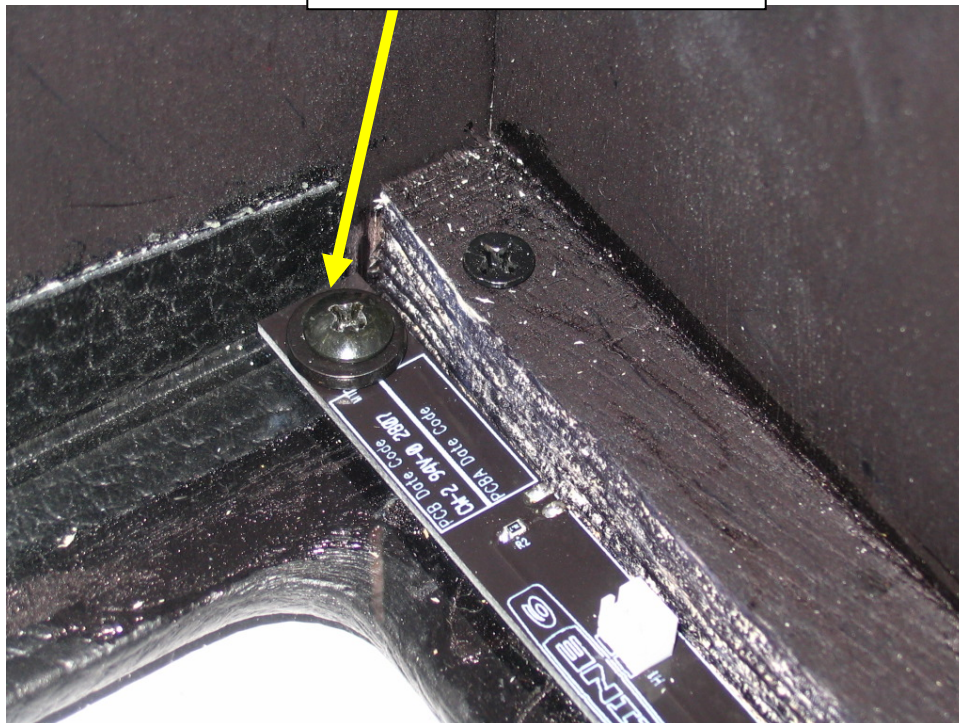


STEP 51 CONT'D

50-02-0249 PCBA SV LED BOARD



**30-00-0812 SCREW
&
30-03-0031 WASHER**



STEP 52

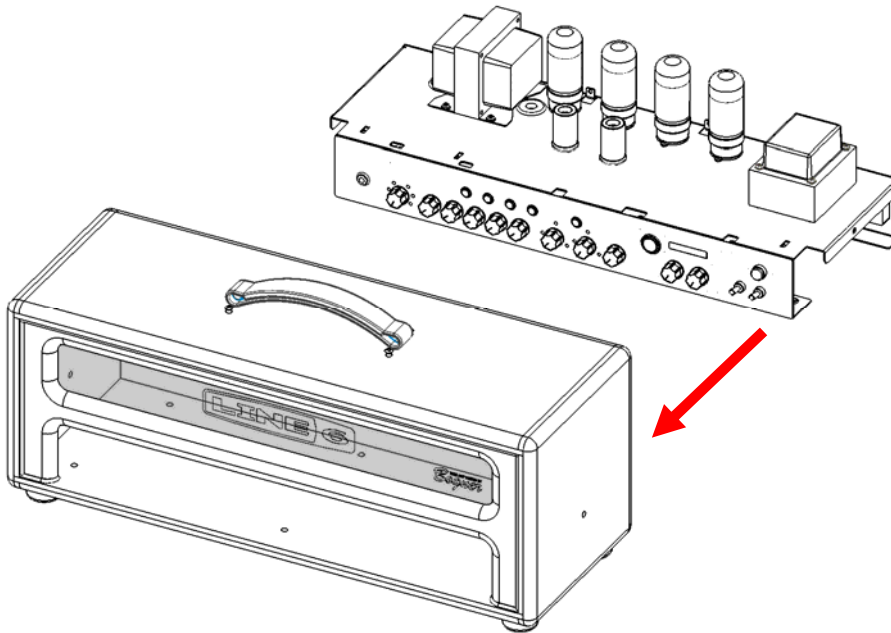
Insert the CHASSIS ASSY into the CABINET ASSY as shown.

Temporarily tape the ends of the **21-34-0076-3** and the **21-34-0076-7** CABLE 2-COND to the CHASSIS while installing as shown below.

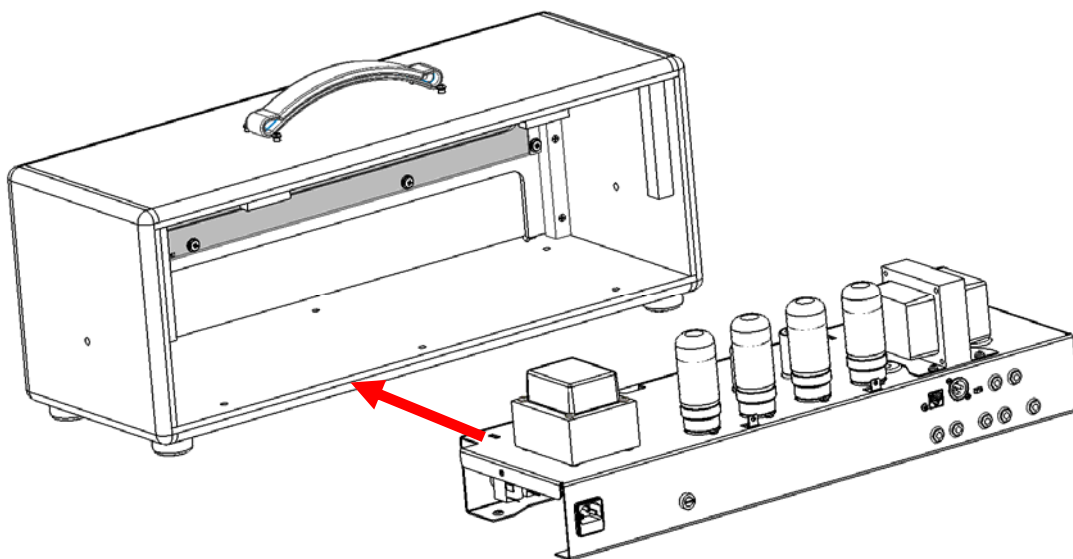


STEP 52 CONT'D

Reference views.



Front Isometric View



Rear Isometric View

STEP 53

REMOVE tape to hold cables.

Connect the free end of the **21-34-0076-3** and the **21-34-0076-7** CABLE 2-COND to the H1 header on each LED PCBA.

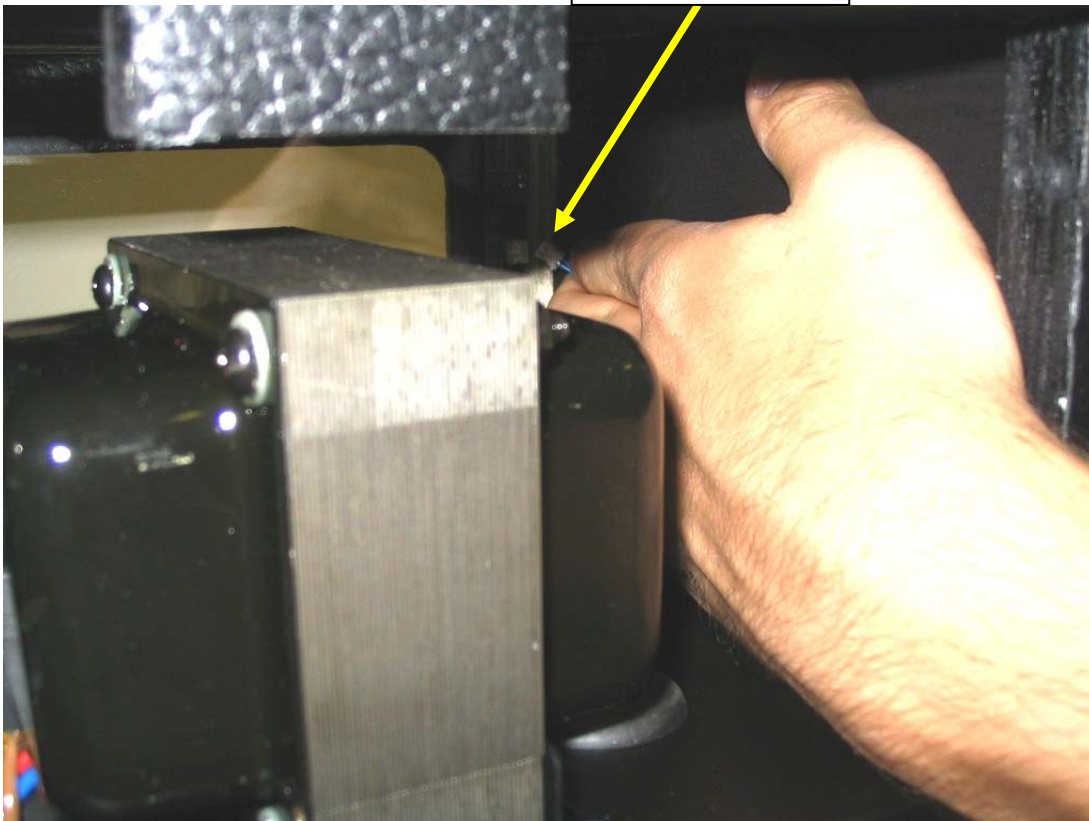
For better access to the LED PCBA on the POWER TRANSFORMER side,
You may remove the nearest **11-02-0002** TUBE.

After connecting the CABLE, install the **11-02-0002** TUBE.

CAUTION – the cable is keyed to register on header. Be sure the cable key is aligned with the header while installing.

CAUTION – wear protective gloves during this step to avoid getting fingerprints on the LOGO PANEL.

Connect CABLE



OUTPUT TRANSFORMER SIDE



STEP 53 CONT'D

POWER TRANSFORMER SIDE



Remove TUBE



Connect CABLE



Install TUBE

STEP 54

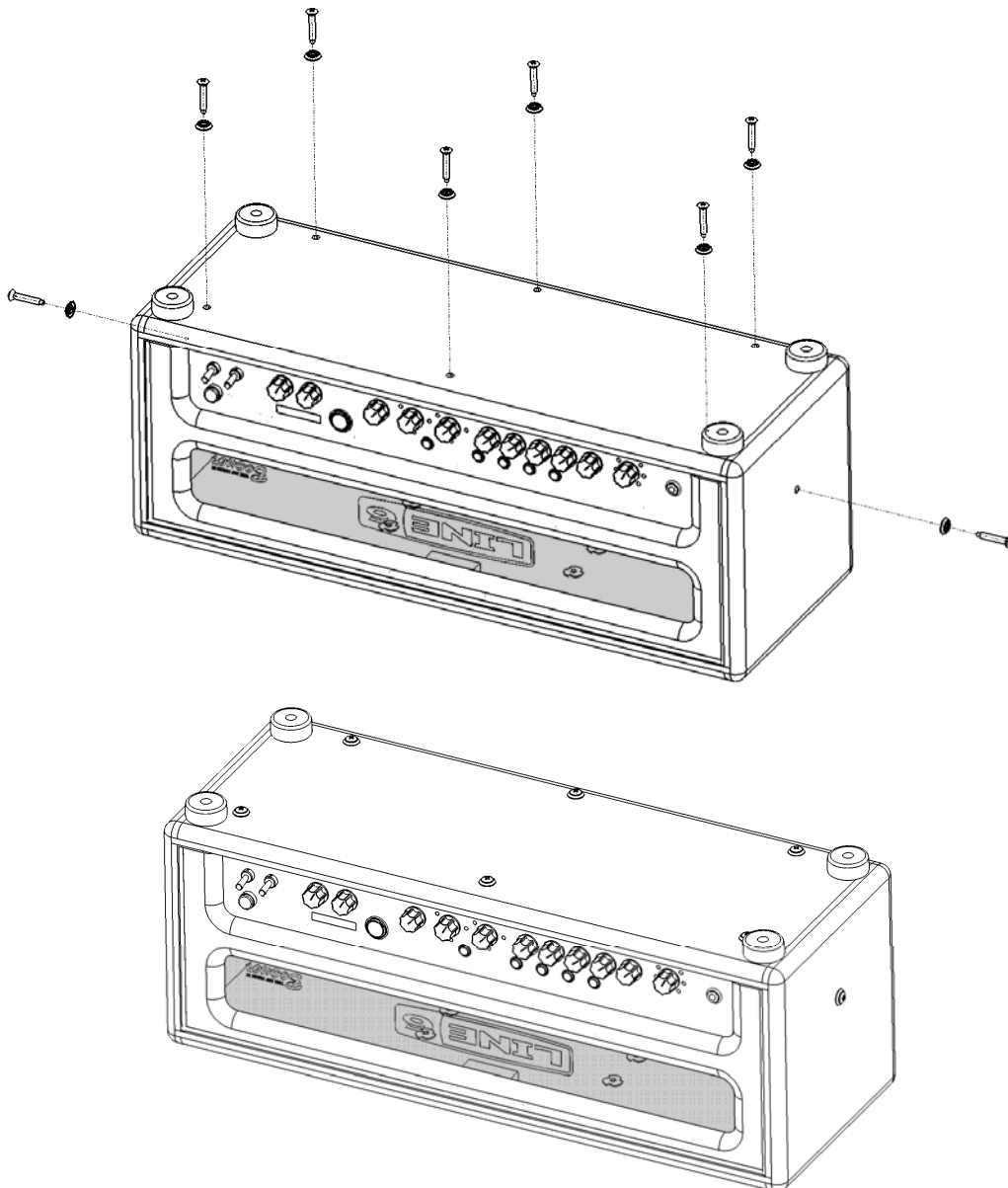
P/N required:

8 each **30-00-1129** SCREW 10-32 x 1 ¼" OVAL BLK w/PILOT TIP

8 each **30-03-0112** FINISHING WASHER #10

Secure CHASSIS ASSY to CABINET ASSY with FINISHING WASHERS and SCREWS as shown, 8 PLACES.

Torque each screw to 10-12 in-lbs.



STEP 55

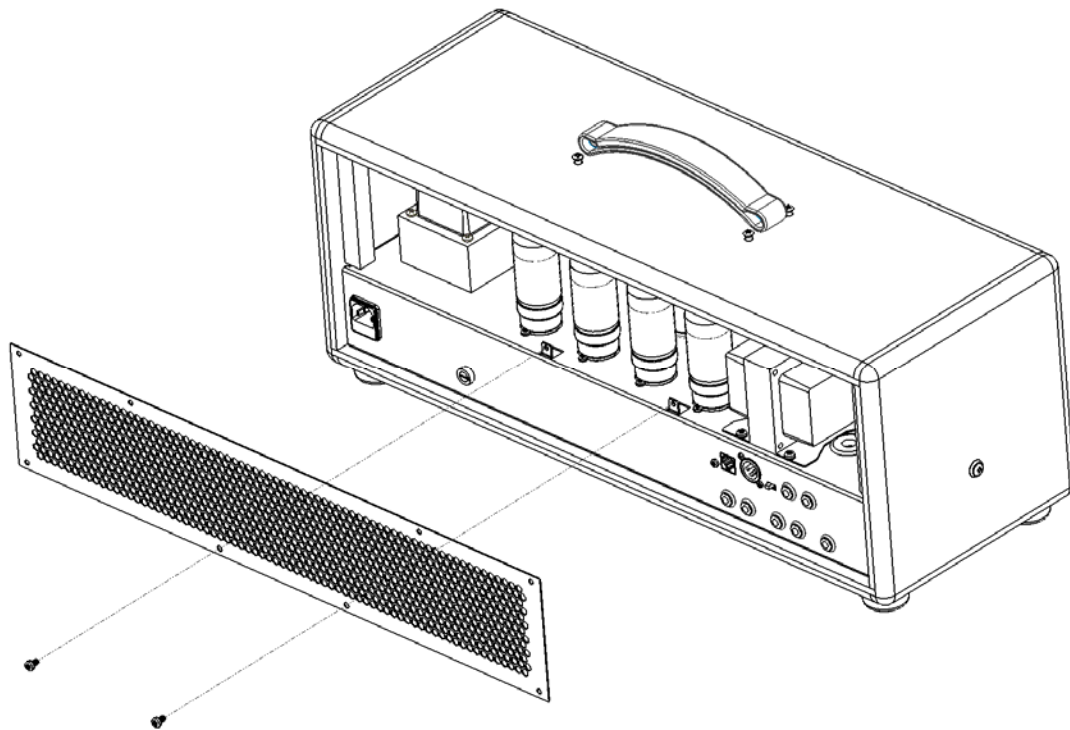
P/N required:

1 each **30-51-0312** MESH REAR 23.9 x 4.4 x .06 STL BLACK

2 each **30-00-0125** SCREW 8-32 x 5/16 w/LK WASH BLK

Insert the MESH GRILL as shown. Secure to chassis tabs using SCREWS.

Torque each screw to 8-10 in-lbs.



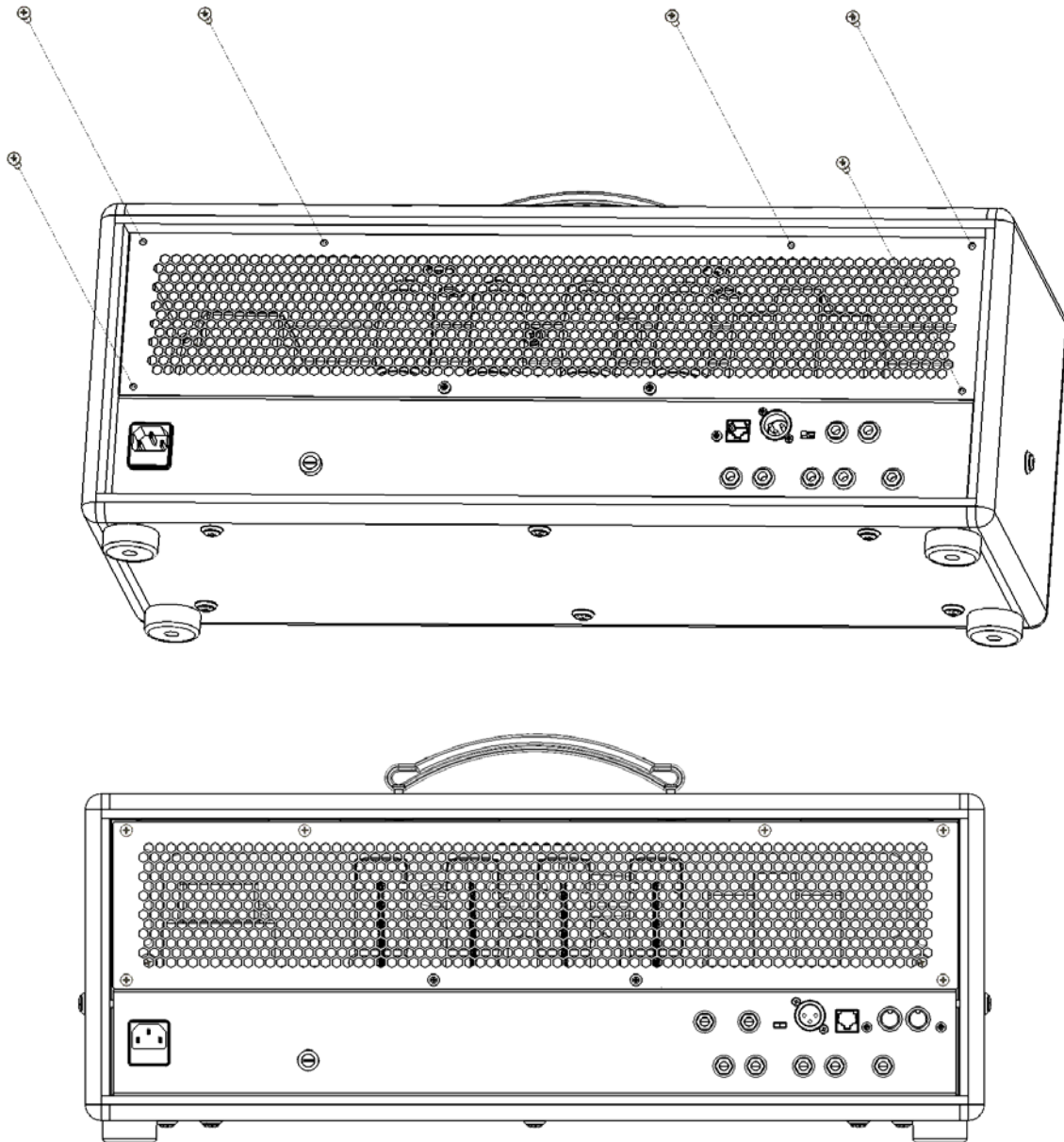
STEP 56

P/N required:

6 each **30-00-0858** SCREW #8 x 5/8IN PHIL-TRUSS BLACK w/WAX

Install SCREWS, 6 PLACES to secure MESH.

Torque each screw to 8-10 in-lbs.

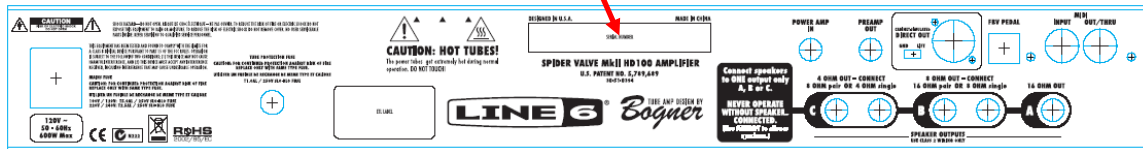




STEP 57

1 each **40-25-0100** LABEL BAR CODE SERIAL NUMBER 4-PANEL

Apply **LABEL BAR CODE** to rear of chassis as shown.



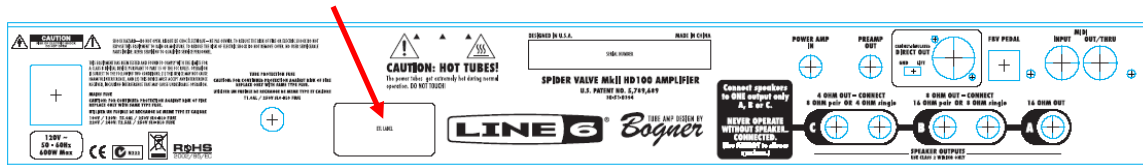


STEP 58

P/N required:
1 each **ETL LABEL**

Note – Line 6 must complete all safety certification testing before the ETL label can be applied. Do not apply ETL label until an ECO has been issued to add the label.

Apply the ETL LABEL in the location shown.

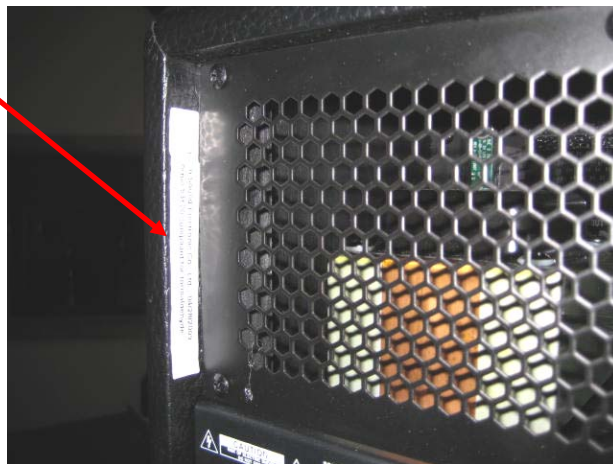
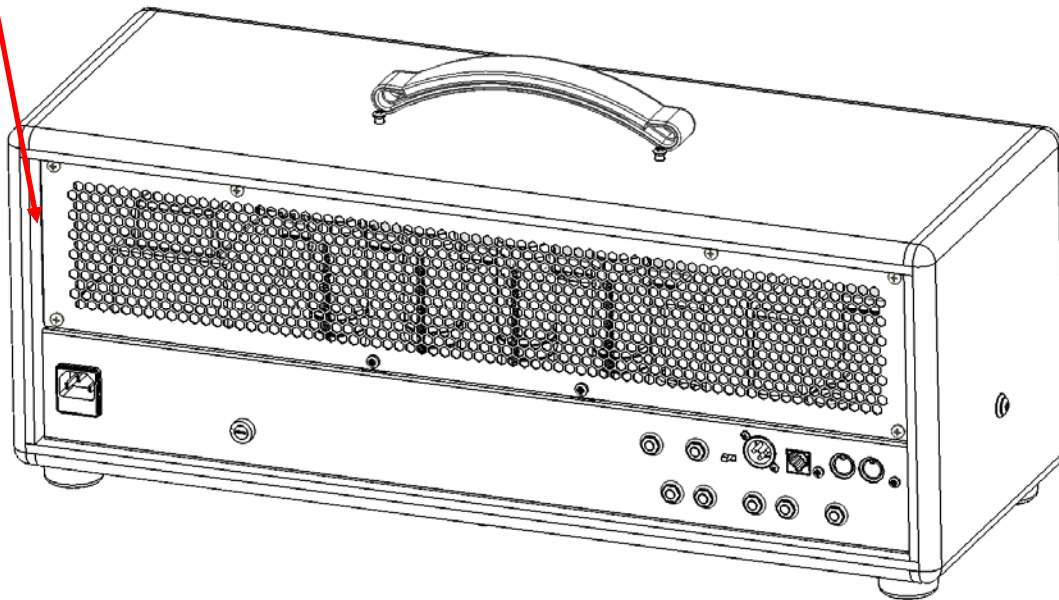


STEP 59

Inspection – confirm that the cabinet vendor CARB-COMPLIANT label has been applied to the inside cabinet side panel as shown.

Note – there is no Line 6 part number for the CARB-COMPLIANT label.

Confirm the cabinet
CARB-COMPLIANT
label has been placed
here





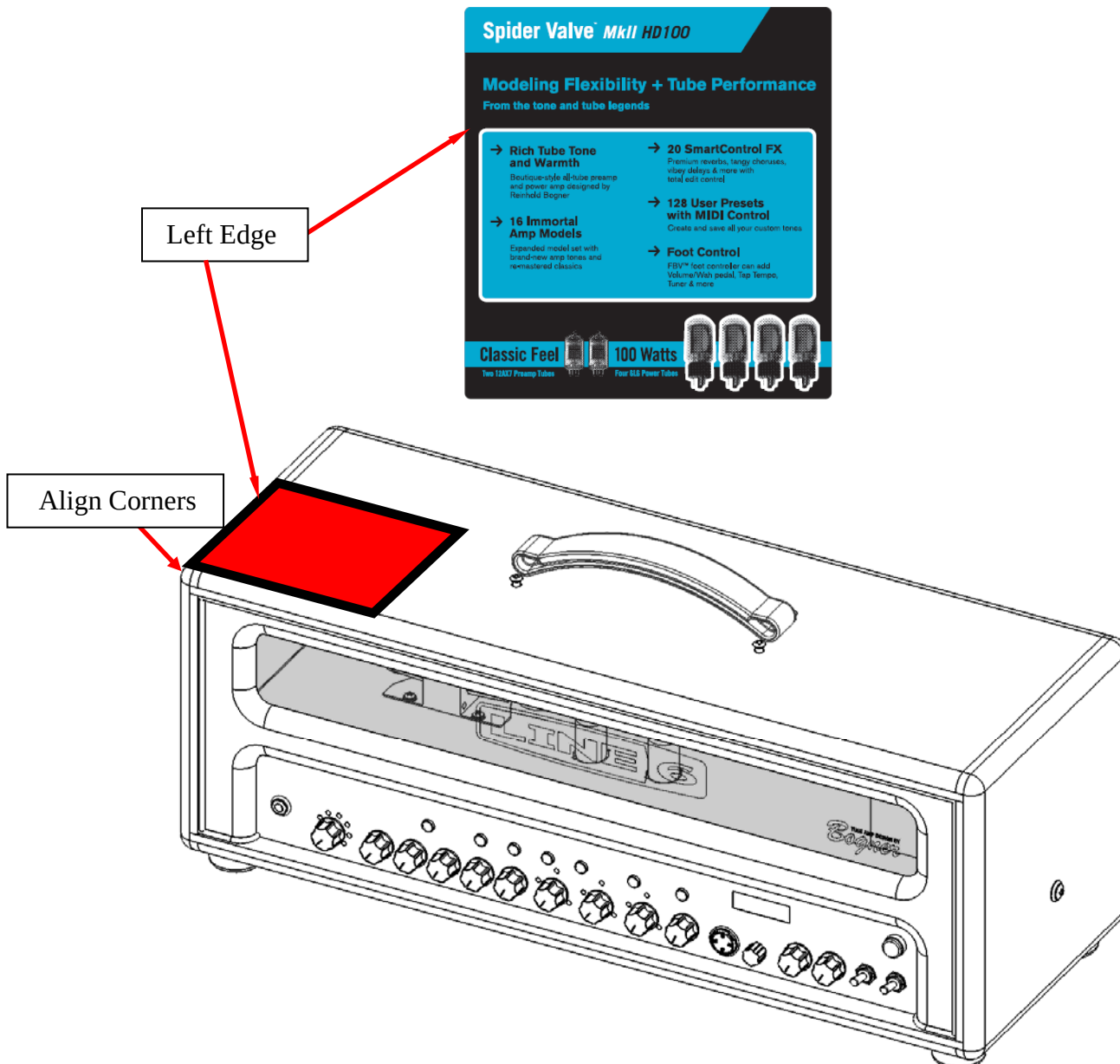
STEP 60

P/N required:

1 each **40-25-0199** STICKER SPEAKER-GRILL PROMO SV MKII HD A23-4

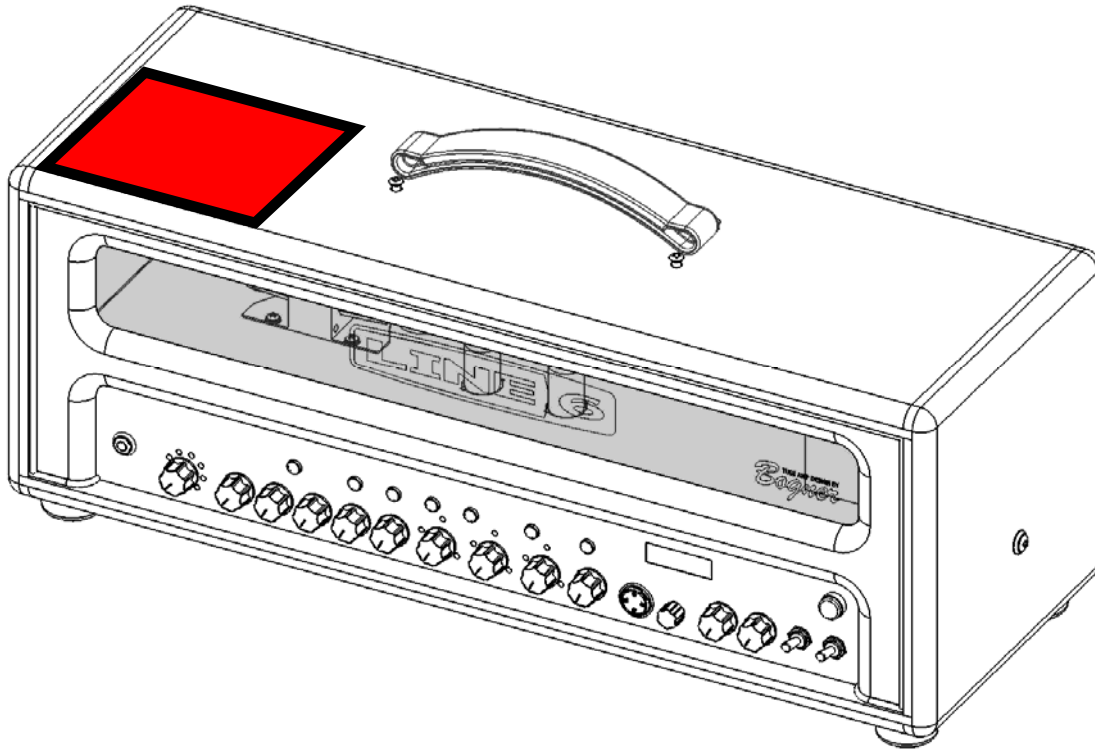
Install promo sticker to the top of the unit in the location shown.

Align the lower left corner of the STICKER with the lower left corner of the top panel.

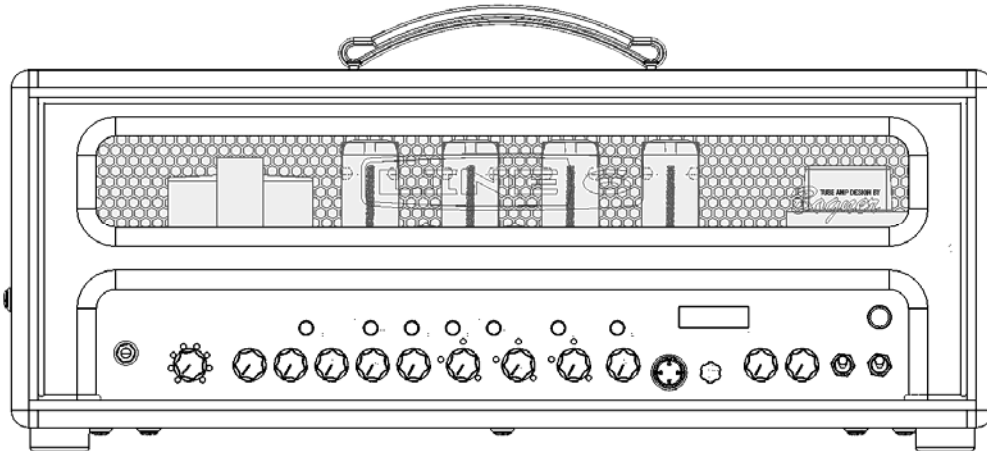


Assembly of the SV MkII HD100 (A23-4) Complete Unit is now complete.

Completed Unit Reference Views:



Completed Unit – Isometric View



Completed Unit – Front View