



# ***SERVICE MANUAL***

TYPE: YS1031

## ***éXcursion 2000***

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Printed in Canada



## IMPORTANT SAFETY INSTRUCTIONS



### INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

#### **CAUTION:**

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK).

*NO USER SERVICEABLE PARTS INSIDE.*

**REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**

### INSTRUCTIONS RELATIVES AU RISQUE DE FEU, CHOC ÉLECTRIQUE, OU BLESSURES AUX PERSONNES

#### **AVIS:**

AFIN DE REDUIRE LES RISQUE DE CHOC ELECTRIQUE, N'ENLEVEZ PAS LE COUVERT (OU LE PANNEAU ARRIERE)

*NE CONTIENT AUCUNE PIECE REPARABLE PAR L'UTILISATEUR.*

**CONSULTEZ UN TECHNICIEN QUALIFIE POUR L'ENTRETIEN**

#### **Read Instructions**

The Owner's Manual should be read and understood before operation of your unit. Please, save these instructions for future reference.

#### **Packaging**

Keep the box and packaging materials, in case the unit needs to be returned for service.

#### **Warning**

When using electric products, basic precautions should always be followed, including the following:

##### **Power Sources**

Your unit should be connected to a power source only of the voltage specified in the owners manual or as marked on the unit. This unit has a polarized plug. Do not use with an extension cord or receptacle unless the plug can be fully inserted. Precautions should be taken so that the grounding scheme on the unit is not defeated.

##### **Hazards**

Do not place this product on an unstable cart, stand, tripod, bracket or table. The product may fall, causing serious personal injury and serious damage to the product. Use only with cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the product. Follow the manufacturer's instructions when installing the product and use mounting accessories recommended by the manufacturer.

The apparatus should not be exposed to dripping or splashing water; no objects filled with liquids should be placed on the apparatus.

Terminals marked with the "lightning bolt" are hazardous live; the external wiring connected to these terminals require installation by an instructed person or the use of ready made leads or cords.

No naked flame sources, such as lighted candles, should be placed on the apparatus.

##### **Power Cord**

The AC supply cord should be routed so that it is unlikely that it will be damaged. If the AC supply cord is damaged DO NOT OPERATE THE UNIT.

##### **Service**

The unit should be serviced only by qualified service personnel.

#### **Veillez Lire le Manuel**

Il contient des informations qui devraient être comprises avant l'opération de votre appareil. Conservez S.V.P. ces instructions pour consultations ultérieures.

#### **Emballage**

Conservez la boîte au cas où l'appareil devait être retourner pour réparation.

#### **Attention:**

Lors de l'utilisation de produits électrique, assurez-vous d'adhérer à des précautions de bases incluant celle qui suivent:

##### **Alimentation**

L'appareil ne doit être branché qu'à une source d'alimentation correspondant au voltage spécifié dans le manuel ou tel qu'indiqué sur l'appareil. Cet appareil est équipé d'une prise d'alimentation polarisée. Ne pas utiliser cet appareil avec un cordon de raccordement à moins qu'il soit possible d'insérer complètement les trois lames. Des précautions doivent être prises afin d'éviter que le système de mise à la terre de l'appareil ne soit désengagé.

##### **Risque**

Ne pas placer cet appareil sur un chariot, un support, un trépied ou une table instables. L'appareil pourrait tomber et blesser quelqu'un ou subir des dommages importants. Utiliser seulement un chariot, un support, un trépied ou une table recommandés par le fabricant ou vendus avec le produit. Suivre les instructions du fabricant pour installer l'appareil et utiliser les accessoires recommandés par le fabricant.

Il convient de ne pas placer sur l'appareil de sources de flammes nues, telles que des bougies allumées.

L'appareil ne doit pas être exposé à des égouttements d'eau ou des éclaboussures et qu'aucun objet rempli de liquide tel que des vases ne doit être placé sur l'appareil.

Les dispositifs marqués d'une symbole "d'éclair" sont des parties dangereuses au toucher et que les câblages extérieurs connectés à ces dispositifs de connexion extérieure doivent être effectués par un opérateur formé ou en utilisant des cordons déjà préparés.

##### **Cordon d'Alimentation**

Évitez d'endommager le cordon d'alimentation. N'UTILISEZ PAS L'APPAREIL si le cordon d'alimentation est endommagé.

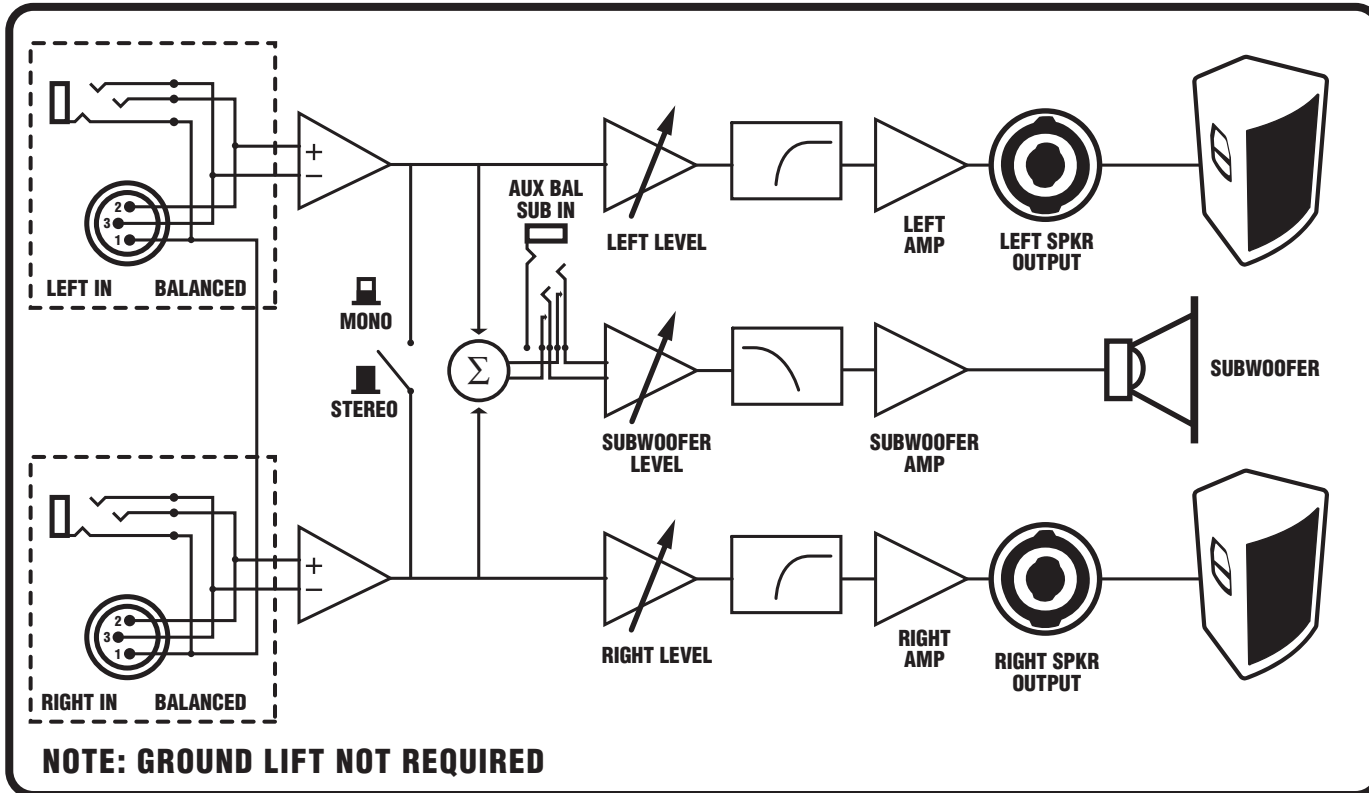
##### **Service**

Consultez un technicien qualifié pour l'entretien de votre appareil.

éXcursion 2000 Parts List pg 1 2/7/2005

YS #	Description	Qty.	YS #	Description	Qty.	YS #	Description	Qty.
5906	RED 3MM LED 1V9 20MA .4SPCER T&R	2	5233	330N 63V 5%CAP T&R RAD .2"FLM	4	3543	20 PIN BRKAWAY 90 LOCK .156	1.2
5907	YEL 3MM LED 1V9 20MA .4SPCER T&R	2	5234	470N 63V 10%CAP T&R RAD .2"FLM	7	3549	TRIFURCON TERM .156	36
5908	GRN 3MM LED 1V9 20MA .4SPCER T&R	1	5322	470N 50V 10%CAP T&R BEAD Z5U	1	3558	TERM HOUSING 4 CIR .156/RAMP	2
6772	BRIDGE 25A 400V WIRE LEAD SIP	4	5266	680N 250V 20%CAP BLK 'X2' 30MM AC	2	3559	TERM HOUSING 8 CIR .156/RAMP	3
6425	BAV21 200V 0A25 DIODE T&R	17	5255	1U 63V 20%CAP T&R RAD .2"EL	8	3654	PCB CONN 4 CIR .100 LOCKING	1
6825	1N4148 75V 0A45 DIODE T&R	47	5925	1U5 100V 10%CAP BLK RAD POLY FLM	4	3658	8 CIR WAFER W/LCK RA 0.1" GOLD	1
6892	UF4004 200V 1A0 DIODE ULTRAFAS	18	5257	2U2 63V 20%CAP T&R RAD .2"EL	1	3662	6 CIR WAFER W/LCK VT 0.1" GOLD	2
6438	1N4007 400V 1A0 DIODE T&R	7	5949	3U3 140V 20%CAP BLK RAD POLY FLM	4	3672	6 CIR CABLE HOLDER .098	2
6934	MR854 400V 3A0 DIODE FASREC	8	5951	3U3 250VAC 20%CAP BLK POLY FLM	1	3676	8 CIR CABLE HOLDER .098	1
6733	BAT85 30V 0A2 DIODE SCHTKYT&R	11	5258	4U7 63V 20%CAP T&R 8X7MM .2"EL	6	3694	4 CIR WAFER W/LCK RA 0.1" GOLD	1
6440	1N750ARL 4V7 0W5 ZENER 5% T&R	2	5281	10U 16V 20%CAP T&R RAD .2"NP	4	8701	4-40 KEPS NUT ZINC	8
6459	1N4732A 4V7 1W0 ZENER 5% T&R	1	5930	10U 100V 10%CAP BLK RAD POLY FLM	4	8800	6-32 KEPS NUT ZINC	2
6450	1N5242B 12V0 0W5 ZENER 5% T&R	6	5945	10U 10U 63V 20%CAP T&R RAD .2"EL	8	8787	8-32 KEPS NUT ZINC	18
6486	1N5244B 14V0 0W5 ZENER 5% T&R	2	5949	100U 16V 20%CAP T&R 8X7MM .2"EL	3	8602	1/4-20 T NUT	24
6824	1N5246B 16V0 0W5 ZENER 5% T&R	8	5880	100U 35V 20%CAP BULK .1"EL	4	8797	5/16-18 KEPS NUT JS500	1
6432	1N5248B 18V0 0W5 ZENER 5% T&R	7	5268	220U 35V 20%CAP T&R RAD .2"EL	2	3895	ELASTOMER PAD 15GTR 1.5 X 4.6	1
6465	1N5250B 20V0 0W5 ZENER 5% T&R	3	5635	1000U 35V 20%CAP RADIAL ELECT BUL	1	4017	SARCON THERMAL GASKET 3.60"X0.75"	4
6506	1N4750A-T 27V0 1W0 ZENER 5% T&R	1	5884	3300U 160V 20%CAP RAD 35X50MM ELS	4	8581	CUSTOM PBL TRANSISTOR SPACER	2
6728	MC78L05ACP TO92 P 5V0 REG T&R V4	1	5636	4700U 50V 20%CAP BLK 25X40MM EL	4	3818	EMI SUPPRESSION FERRITE BEAD T&R	2
6732	MC79L05ACP TO92 N 5V0 REG V4	1	5900	10000U 63V 20%CAP BLK 35X45MM ELS	2	4597	22AWG STRAN TC WIR JMP	19
6856	NJM7815FA TO220 P 15V0 REG IS V1	2	4434	10K B LIN 9MM DETENT P32	3	4599	22AWG SOLID SC WIR T&R JMP	74
6857	NJM7915FA TO220 N 15V0 REG IS V2	1	4522	4K7 TRIM POT	2	4660	5.0W 0R047 5% BLK RES	2
5101	BC550C TO92 NPN TRAN T&R TB	5	3606	12.0 AMP CIRCUIT BREAKER	1	4698	2.0W 0R27 10% T&R RES	12
5102	BC560C TO92 PNP TRANSISTOR T&R TB	2	711	30 X 50 X 1.5MIL PLASTIC BAG	2	4682	1/2W 1R 5%PHILIPS SMAL T&R RES	2
5103	MPSA06 TO92 NPN TRANSISTOR T&R TA	2	712	32 X 30 X 72 2 MIL PLASTIC BAG	1	4703	2.0W 2R 5% T&R RES	8
5107	2N5551 TO92 NPN TRNSISTR DARL T&RTA	5	3961	SNAP ON 1.16" INSULATING BUSHING	1	4911	1/4W 2R2 5% T&R RES	3
5108	2N5401 TO92 PNP TRNSISTR DARL T&RTA	12	3819	5UH COIL 18AWG R000 AIR CORE	2	4687	10W 3R7 5% BLK RES	2
5105	MPSA13 TO92 NPN TRNSISTR DARL T&RTA	8	3777	130UH COIL 22AWG R000 BOBBIN	2	4711	15W 2R9 10% BLK RES	2
5119	2N5638 TO92 NCH JFET T&R TC	2	3784	300UH COIL 22AWG R000 BOBBIN	2	4748	2.0W 3R9 5% T&R	7
6815	MJF6388 T221D NPN TRNSISTR DARL TJ	1	6497	304UH CHOKE 95T18AWG/7711MAGNTKS	2	4813	1/4W 6R2 5% T&R RES	2
6891	TIP50 TO220 NPN TRAN TE	2	3005	1800UH COIL 18AWG R??? IRN CORE	2	2008	1.0W 10R 5%FLAME PROOF T&R RES	4
6911	BDX54C TO220 PNP TRAN DARL TE	6	6500	2700UH COIL COMMON MODE 7AMP	1	2009	1/4W 10R 2%FLAME PROOF T&R RES	4
6912	BDX53C TO220 NPN TRAN DARL TE	6	8483	ADAPTOR,SPEAKER STAND,METAL,BLACK	1	2010	1/8W 10R0 2%FLAME PROOF T&R RES	2
6782	IRFP31N50L TO247 NCH MFET TM	4	8484	ADAPTOR,SPEAKER STAND,PLASTIC,SMALL	2	2038	1/4W 11R FUSIBLE T&R RES	4
6953	IRF4905 TO220 PCH MFET	4	8520	RUBBER BUMPER WITH WASHER -MEDIUM-	12	4740	10.W 27R 5% BLK RES	2
6954	IRF3205 NCH MFET TN	4	8521	RUBBER BUMPER WITH WASHER VERYSMALL	8	4882	1/4W 27R 5% T&R RES	4
6840	MC33078P IC DUAL OP AMP	4	8538	RUBBER BUMPER W/ WASHER 1.375X1.375	8	2014	1/8W 33R 2%FLAME PROOF T&R RES	2
6882	TL072CP IC FET DUAL OP AMP	7	8547	PLASTIC FOOT BLACK, POLYETHYLENE	8	4816	1/4W 33R 5% T&R RES	3
6884	NE5532N IC DUAL OP AMP	12	8570	CORNER, 2 LEGS NOTCHED LIP BLACK	16	2017	1/4W 47R5 1%FLAME PROOF T&R RES	2
6640	LM311 IC VOLTAGE COMPARATOR	1	8589	2 1/2" GREY SWIVEL CASTER	4	4817	1/4W 47R 5% T&R RES	9
6745	LM13600N IC XCONDUCTANCE AMP	4	3478	CLIP 205/187X032 18-22AWG DISCO/INS	2	2019	1/8W 100R0 1%FLAME PROOF T&R RES	2
6935	1455P1 IC SINGLE TIMER	1	3485	CLIP 250X032 18-22AWG RIGHT ANGL	2	4602	1/8W 100R 5% T&R RES	4
6603	74HC14N IC HEX INV SCHMID	2	3489	CLIP 250X032 18-22AWG DISCO/INSL	30	4652	1/2W 100R 5% T&R RES	2
6605	74HC86N IC QUAD 2INP XOR	1	3490	CLIP 250X032 14-16AWG DISCO/INSL	12	4852	1/4W 100R 5% T&R RES	12
6887	IR2110 IC HILO FET DRIVER	2	3491	CLIP 205/187X020 18-22AWG DISCO/INS	4	4819	1/4W 180R 5% T&R RES	2
6858	NSL-32SR2 OPTO-COUPLER LDR	2	3682	250 MALE PCB TAB REEL	52	4857	1/4W 220R 5% T&R RES	6
6467	10K 10% THERMISTOR NTC TO-92	3	3921	1/4" JCK PCB MT VERT STER RT SWT	3	4867	1/4W 270R 5% T&R RES	4
6489	5R0 20% NTC THERMISTOR-SURGTR	1	3924	1/4" JCK PCB MT VERT 2XTIP HICURNT	4	2025	1/8W 274R 1%FLAME PROOF T&R RES	4
5198	4P7 100V 5%CAP T&R RAD CER.2"NPO	2	3628	SPKON 4C PCB MT VERT 250TAB GRY #4	4	4821	1/4W 470R 5% T&R RES	10
5200	10P 200V 5%CAP T&R RAD CER.2"NPO	1	4010	XLR FEMLE PCB MT VERT 24MM AA-SERIES	2	4933	1/4W 470R 5% .2"U T&R RES	1
5401	10P 500V 5%CAP T&R RAD CER.2"NPO	2	8598	SLIM BLACK XOVERDISH PLASTIC CNFG4	2	5015	1/4W 475R0 0.1% *** T&R RES	8
5402	15P 100V 10%CAP T&R BEAD NPO	2	3451	EYELET SHALLID 0.089 OD PLATED	53	4873	1/4W 680R 5% T&R RES	7
5817	15P 100V 2%CAP T&R RAD CER.2"NPO	1	3414	INTERNATIONAL PC MOUNT FUSEHOLDER	6	5017	2.0W 910R 5% T&R RES	1
5408	47P 100V 10%CAP T&R BEAD NPO	1	2414	8.0 AMP SLO-BLO .25X1.25 FUSE	4	2033	1/8W 1K 2%FLAME PROOF T&R RES	1
5199	100P 100V 2%CAP T&R RAD CER.2"NPO	2	2438	12.0 AMP SLO-BLO .25X1.25 FUSE	2	4823	1/4W 1K 5% T&R RES	6
5197	220P 100V 2%CAP T&R RAD CER.2"NPO	2	3864	FAN 92MM X 92MM 60CFM 24VDC	1	4981	1/4W 1K 5%MINI T&R RES	1
5201	470P 100V 5%CAP T&R RAD CER.2"NPO	2	8458	10.5" STRAP HANDLE, PLASTIC COVERS	1	6110	1/4W 1K0 1%MINI MF T&R RES	4
5416	470P 50V 10%CAP T&R BEAD NPO	2	8564	SMALL BAR HANDLE ALL METAL	2	4996	1/4W 1K070 0.1% *** T&R RES	6
5815	680P 200V 5%CAP T&R RAD CER.2"NPO	4	8565	BAR HANDLE ALL METAL	4	4998	5.0W 1K2 5% BLK RES	4
5816	680P 100V 5%CAP T&R RAD CER.2"NPO	2	8604	10-32 T NUT	12	4769	1/4W 1K4 5% T&R RES	4
5213	1N 400V 5%CAP T&R RAD PRO.02"FM	6	HD120	8R 40W 1"DRIVER HD1208R	2	4824	1/4W 1K5 5% T&R RES	3
5852	10U 35V 20%CAP BLK 05X05MM EL	1	3501	B52200F006 COMP WASH #4 SMALL	8	4935	1/4W 1K5 5% .2"U T&R RES	2
5208	2N2 400V 5%CAP T&R RAD .2"FLM	10	3745	DUAL XSISTOR PBL SPRING CLEAR ZINC	2	4988	1/4W 1K5 5%MINI T&R RES	3
5274	2N2 200V 5%CAP T&R RAD CER.2"NPO	1	3978	5POS XSISTOR TO220SPRING	2	4683	1.0W 1K8 5% T&R RES	1
5275	3N3 100V 5%CAP T&R RAD .2"FLM	4	3979	6POS XSISTOR TO220SPRING	2	4808	1/4W 2K 5% T&R RES	6
6451	4N7 250V 20%CAP BLK 'Y' 10MM AC	6	3645	AC SOCKET RECEPTACLE WITH 0.250 TAB	1	4647	1/2W 2K2 5% T&R RES	4
5433	5N6 50V 10%CAP T&R BEAD X7R	1	3803	NYLON SECUR-A-TACH MINI PLASTIC TIE	3	4847	1/4W 2K2 5% T&R RES	11
5272	6N8 100V 5%CAP T&R RAD .2"FLM	1	3810	4" NYLON CABLE TIE	13	6148	1/4W 2K05 1%MINI MF T&R RES	1
5204	10N 100V 10%CAP T&R RAD .2"FLM	7	3841	5.5" NYLON CABLE TIE	6	4864	1/4W 2K7 5% T&R RES	6
5205	15N 100V 10%CAP T&R RAD .2"FLM	4	3852	STICK ON CABLE WRAP ANCHOR	1	5006	1.0W 2K7 5% T&R RES	4
6435	22N 275V 20%CAP BLK 'X2' 15MM AC	1	8937	11-3/8" NYLON CABLE TIE	1	4850	1/4W 3K9 5% T&R RES	4
5223	39N 100V 10%CAP T&R RAD .2"FLM	2	8632	ROUND PUSH BUTTON 1/4" GREY	1	4627	1/2W 4K7 5% T&R RES	1
5224	47N 100V 10%CAP T&R RAD .2"FLM	4	9916	GRY SOFT GRAY RIB KNOB 0-DEG	3	4827	1/4W 4K7 5% T&R RES	17
5226	68N 100V 5%CAP T&R RAD .2"FLM	2	3426	8' 3/16 SGT AC LINE CORD REMOV-B-CSA	1	4862	1/4W 5K6 5% T&R RES	2
5212	100N 63V 5%CAP T&R RAD .2"FLM	63	8258D	'Y' LJO ELITE SERIES MEDIUM DOMED	3	4717	1/4W 6K19 1%MINI T&R RES	4
5242	100N 250V 20%CAP BLK 'X2' 22MM AC	2	3641	S.C BAYONET WIRE SOCKET TINNED	2	4787	1/4W 7K960 0.1% *** T&R RES	12
5314	100N 50V 10%CAP T&R BEAD X7R	2	3647	12V 18W SC BAYONET #1141 BULB	2	4762	1/4W 9K760 0.1% *** T&R RES	2
5865	100N 250V 10%CAP BLK RAD POLY FLM	4	3817	1.5MH COIL INPUT COM MODE	1	4768	5.0W 12K 5% BLK RES	2
5231	220N 63V 10%CAP T&R RAD .2"FLM	9	6497CO	77111-A7 KOOL MU POWDER CORES	2	4800	1/4W 10K0 1% T&R RES	1
5318	220N 50V 10%CAP T&R BEAD X7R	2	3538	24 PIN BREAKAWAY LOCK .156	1.659	4829	1/4W 10K 5% T&R RES	23

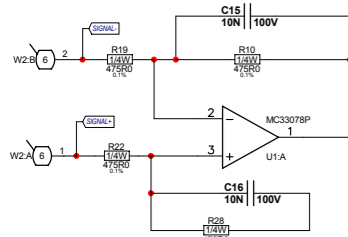
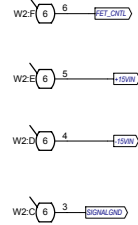




# EXCURSION 2000 225 WATT SATELLITE AMP

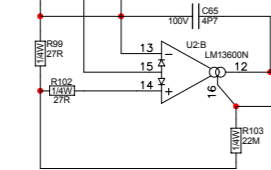
FAN JUNCTION

FROM INPUT PCB

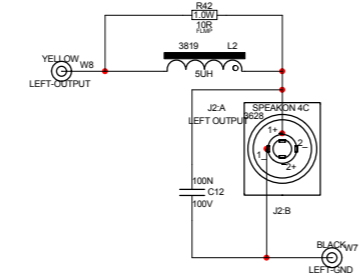
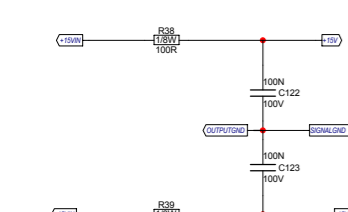
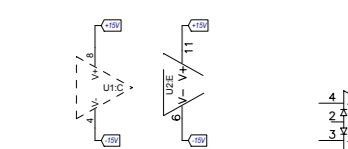
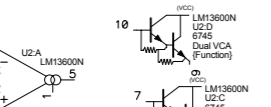


HORN SIGNAL

LIMITER



SILENT ON/OFF

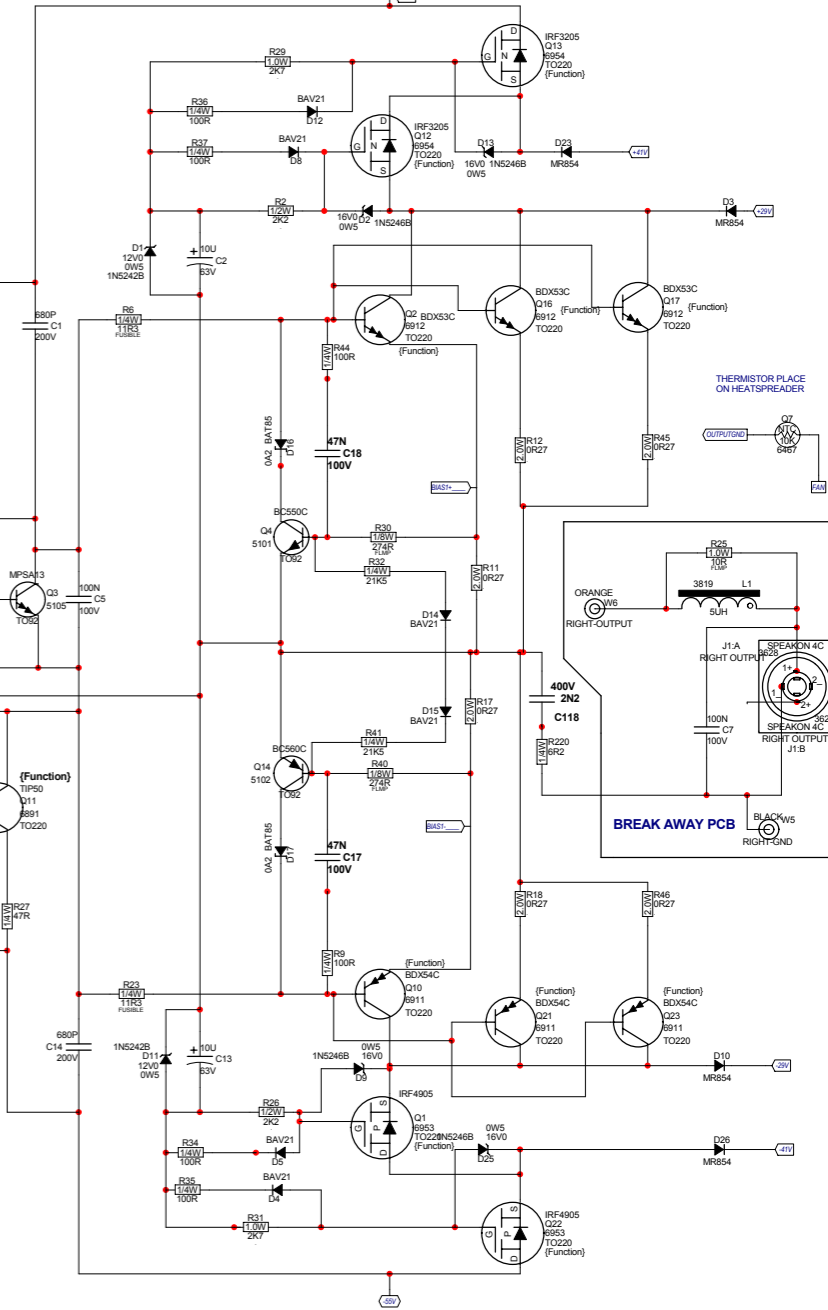
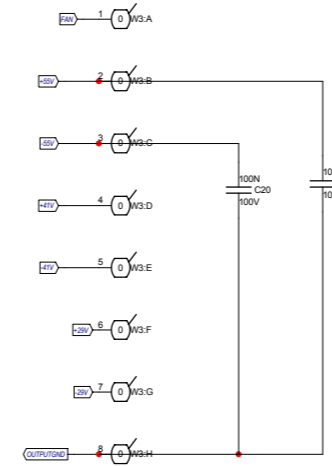


BREAK AWAY PCB

TO BREAKAWAY

FAN

POWER SUPPLY



BIAS ADJUSTMENT AT POINTS BIAS1+ AND BIAS1-: BETWEEN 1-3 mVdc

M1206.PCB_DATABASE_HISTORY		
EXCURSION 2000		
MODEL(S):-	VER#	DESCRIPTION OF CHANGE
1	MAY-13-2004	1.00 FIRST CREATION
2	JUL-15-2004	2.00 PC#6712: CHANGED COLOUR ATTRIBUTES ON TABS 5 & 11
3	AUG-09-2004	3.00 ADDED TESTPINS
4	SEP-02-2004	4.00 Artwork has pads for NODE_R_WPAD and added clinch hole on right side
5		5.00 CHANGED OUTPUT AND BLACK TABS TO #3538 MOLEX
6	OCT-12-2004	6.00 ON BREAKAWAY CHANGED TABS TO EYELETS AND #3543 RIGHT ANGLE MOLEX
7		7.00 PC#6737 ZIPPERED OFF 0.2
8		8.00 MOVED COMPONENTS ON BREAKAWAY TO AVOID MECH COLLISION ON ASSEMBLED UNIT
9	OCT-13-2004	9.00
10		10.00
11		11.00
12		12.00
13		13.00
14		14.00

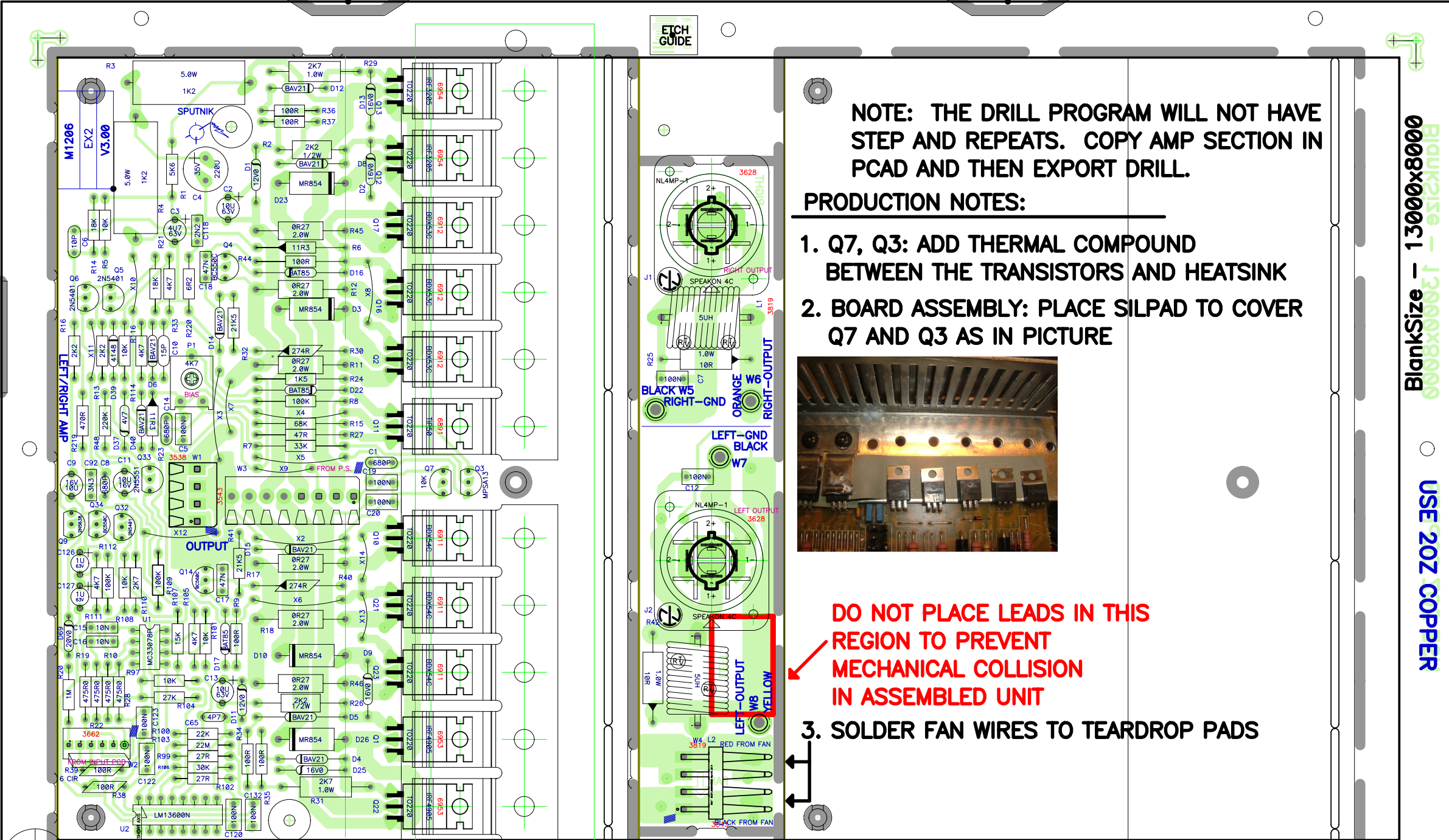
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3	AUG-09-2004	ADDED TESTPINS
4	SEP-02-2004	2.00 Artwork has pads for NODE_R_WPAD and added clinch hole on right side
5	OCT-12-2004	3.00 CHANGED OUTPUT AND BLACK TABS TO #3538 MOLEX, ON BREAKAWAY CHANGED TABS TO EYELETS AND #3543 RIGHT ANGLE MOLEX
6		
7		
8		
9	OCT-13-2004	PC#6737 ZIPPERED OFF 0.2" OF BOARD NEAR HEATSINK, MOVED COMPONENTS ON BREAKAWAY TO AVOID MECH COLLISION ON ASSEMBLED UNIT
10		
11		
12	FEB-1-2005	ADDED PRODUCTION NOTE
13	D	N

MODEL(S):- EXCURSION 2000		
#	DATE	VER# DESCRIPTION OF CHANGE
1	D	V N
2	D	V N
3	D	V N
4	D	V N
5	D	V N
6	D	V N

M1206 PENDING CHANGES

MODEL(S):- EXCURSION 2000		
#	PC#	PENDING CHANGE
1	PC	X
2	PC	X
3	PC	X
4	PC	X
5	PC	X
6	PC	X

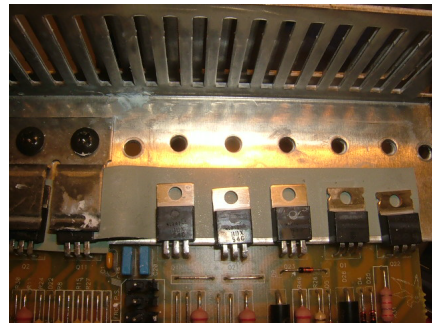
\*PLACE IMPLEMENTED CHANGES INTO BOARD HISTORY



**NOTE: THE DRILL PROGRAM WILL NOT HAVE STEP AND REPEATS. COPY AMP SECTION IN PCAD AND THEN EXPORT DRILL.**

**PRODUCTION NOTES:**

1. Q7, Q3: ADD THERMAL COMPOUND BETWEEN THE TRANSISTORS AND HEATSINK
2. BOARD ASSEMBLY: PLACE SILPAD TO COVER Q7 AND Q3 AS IN PICTURE

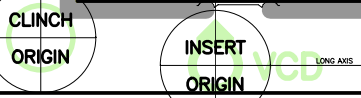


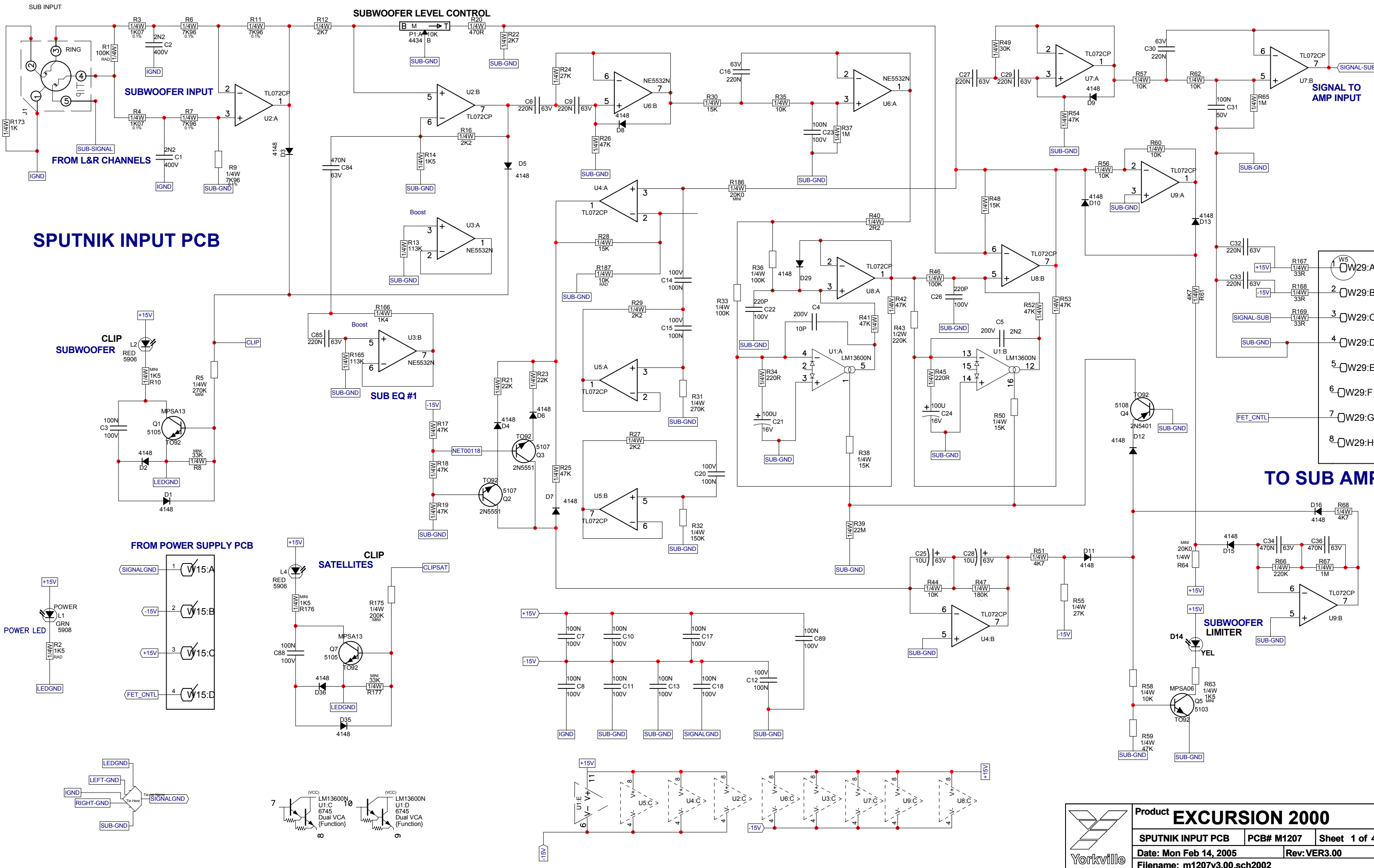
**DO NOT PLACE LEADS IN THIS REGION TO PREVENT MECHANICAL COLLISION IN ASSEMBLED UNIT**

3. SOLDER FAN WIRES TO TEARDROP PADS

BlankSize - 1300x800

USE 20Z COPPER





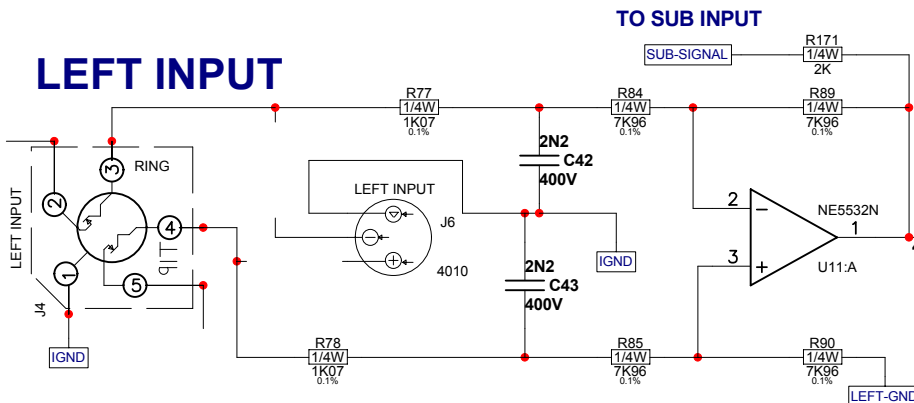
# SPUTNIK INPUT PCB

# TO SUB AMP

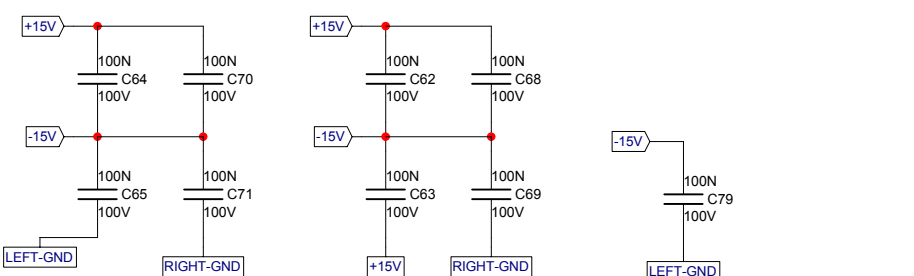




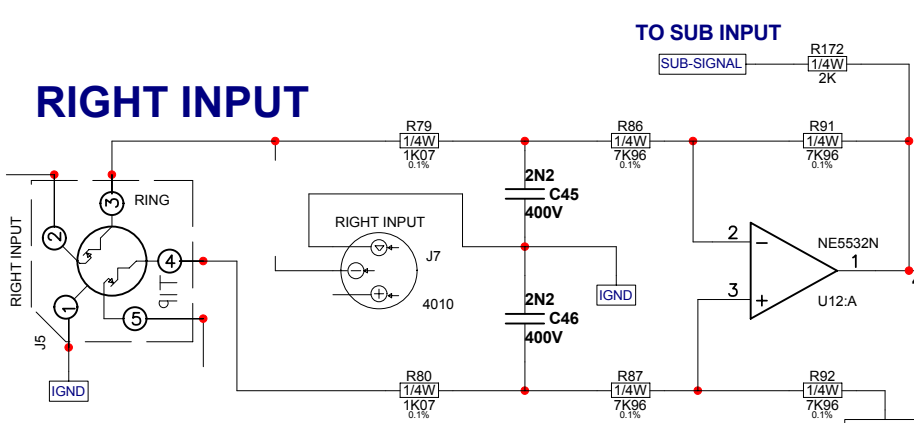
# LEFT INPUT



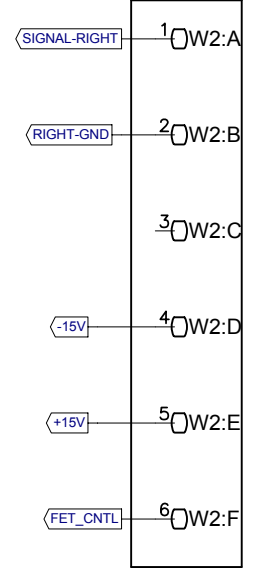
# EXCURSION 2000 INPUT PCB



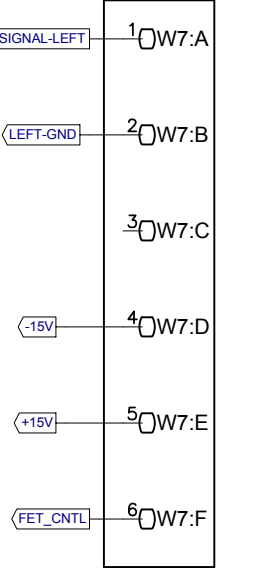
# RIGHT INPUT



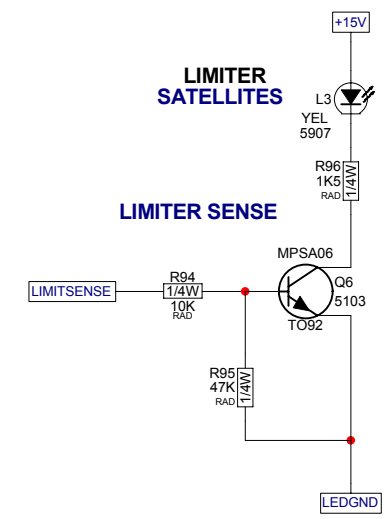
# LEFT SIGNAL



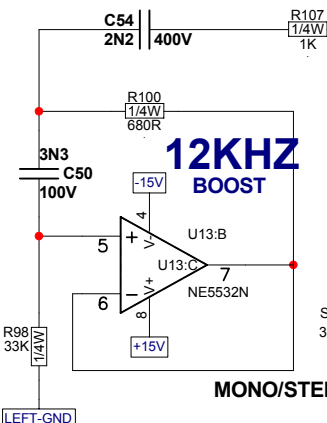
# RIGHT SIGNAL



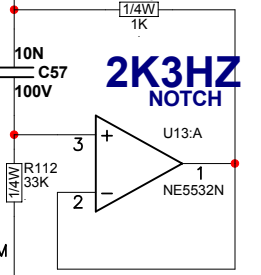
# LIMITER SATELLITES



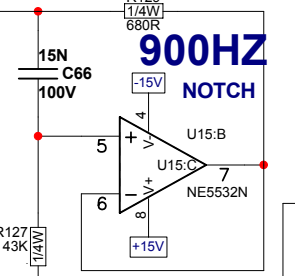
# 12KHZ BOOST



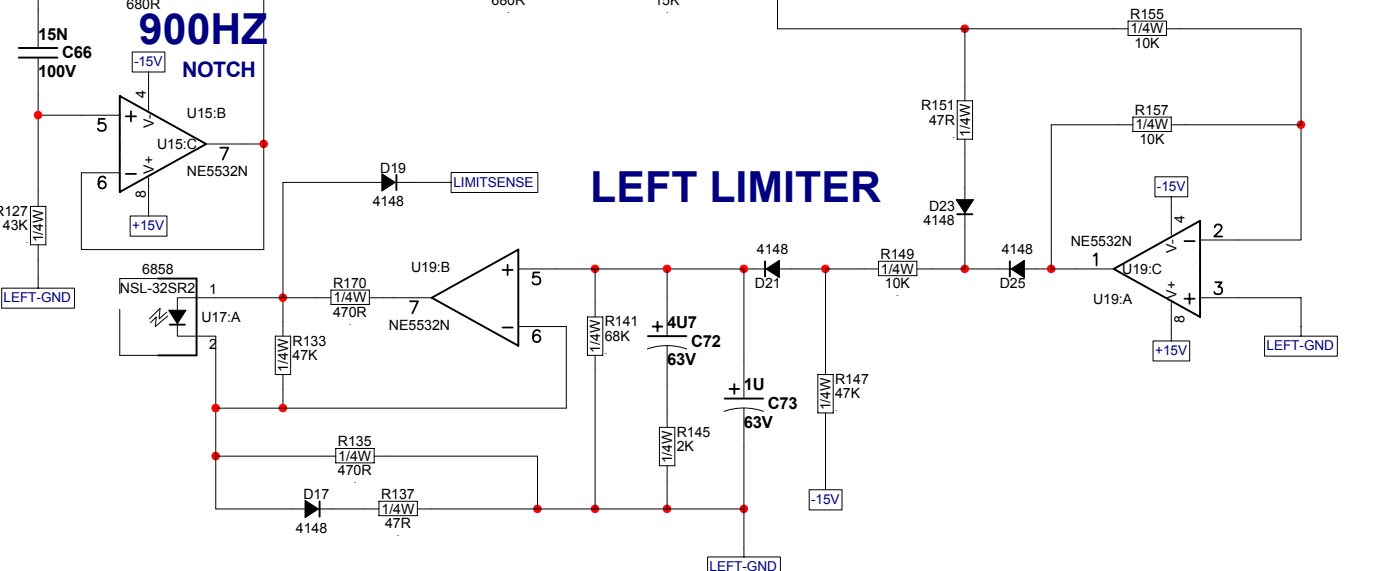
# 2K3HZ NOTCH



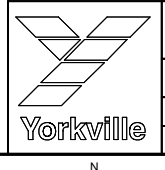
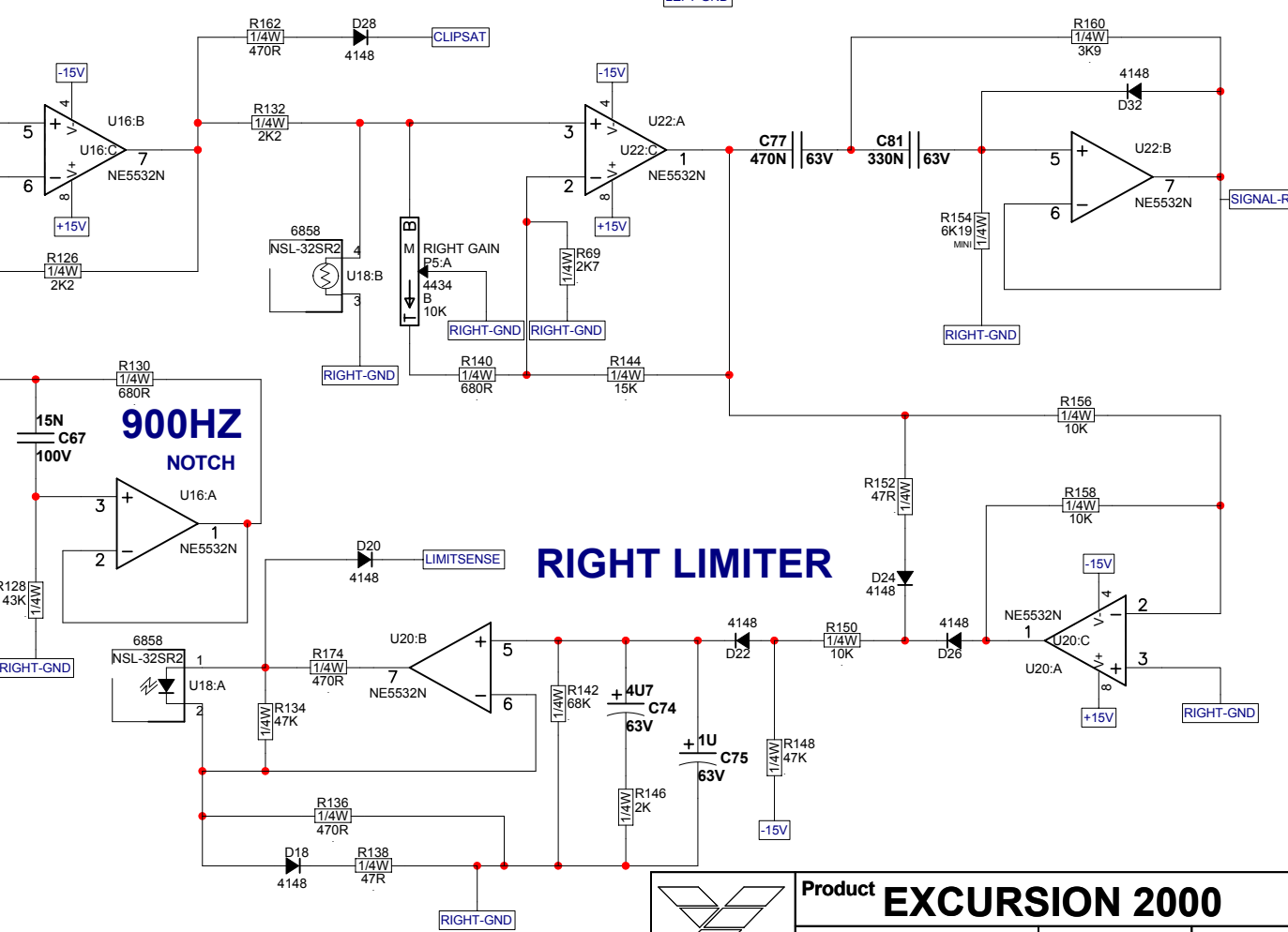
# 900HZ NOTCH



# LEFT LIMITER




# RIGHT LIMITER



M1207 HISTORY

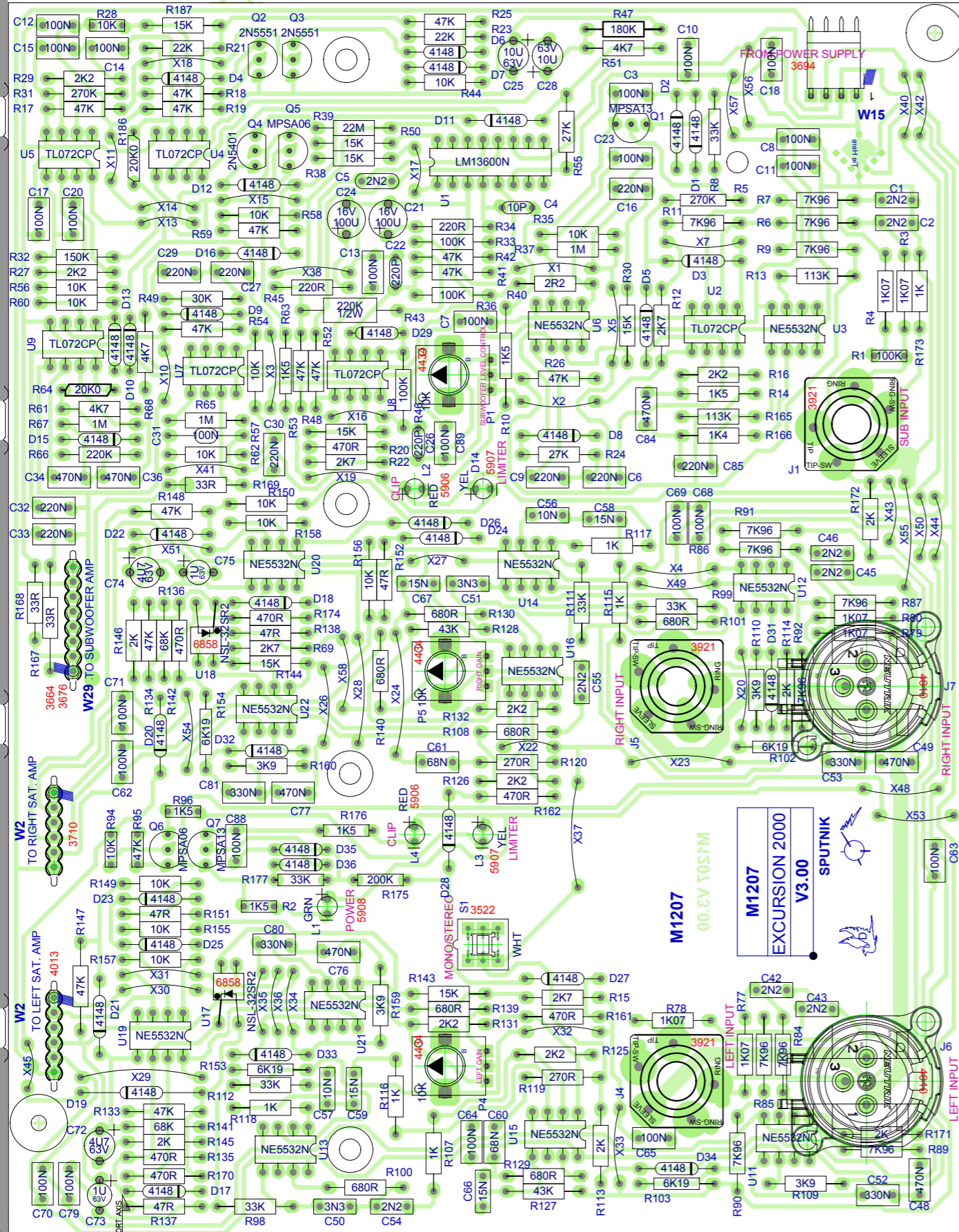
MODEL(S):-		EXCERSION 2000	
#	DATE	VER#	DESCRIPTION OF CHANGE
1	JUN-08-2004	1.00	FIRST CREATION
2	JUL-14-2004	2.00	PC#6709: ADD RIGHT CORNER CLINCH HOLE, PC#6710: CHANGE C5, C84, R166, ADD DRILL & PEND. TABLES
3	-	-	PC#6711: W15 CONNECTOR MOVED FOR SHEARING
4	-	-	DISCONNECT PIN3 ON W2 &W7, PIN6 ON W29 RIBBONS
5	-	-	Force update 3921 jacks for clinch - fixed blank and repeat field
6	17 Aug, 2004	2.00	
7	SEP/30/2004	2.10	pc#6742 R64 15K->20K0, R47 130K->180K
8	JAN-25-2005	3.00	GT: removed 1OZ Copper label (production request)
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N

	Product <b>EXCURSION 2000</b>		
	SPUTNIK INPUT PCB	PCB# M1207	Sheet 4 of 4
	Date: Mon Feb 14, 2005		Rev: VER3.00
	Filename: m1207v3.00.sch2002		

BlankSize - 13700x9150

BlankSize - 13700x9150

ETCH GUIDE



Top Assy M1207V3.00

Pcb Mech M1207V3.00

**M1207 HISTORY**

MODEL(S):-		EXCURSION 2000	
#	DATE	VER#	DESCRIPTION OF CHANGE
1	JUN-08-2004	1.00	FIRST CREATION
2	JUL-14-2004	2.00	PC#6709: ADD RIGHT CORNER CLINCH HOLE, PC#6710: CHANGE C5, C84, R166, ADD DRILL & PEND. TABLES
3	-	-	PC#6711: W15 CONNECTOR MOVED FOR SHEARING DISCONNECT PIN3 ON W2 & W7, PIN6 ON W29 RIBBONS
4	-	-	Force update 3921 jacks for clinch - fixed blank and repeat field
5	17 Aug, 2004	2.00	pc#6742 R64 15K->20K0, R47 130K->180K
6	SEP/30/2004	2.10	GT: removed 10Z Copper label (production request)
7	JAN-25-2005	3.00	
8	D	V	N
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N

**M1207 DRILL HISTORY**

MODEL(S):-		EXCURSION 2000	
#	DATE	VER#	DESCRIPTION OF CHANGE
1	D	V	N
2	D	V	N
3	D	V	N
4	D	V	N
5	D	V	N
6	D	V	N

**M1207 PENDING CHANGES**

MODEL(S):-		EXCURSION 2000	
#	PC#	PENDING CHANGE	
1	PC	X	
2	PC	X	
3	PC	X	
4	PC	X	
5	PC	X	
6	PC	X	

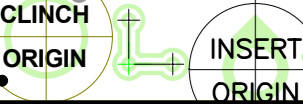
\*PLACE IMPLEMENTED CHANGES INTO BOARD HISTORY

**M1207**

MODEL(S):-		EXCURSION 2000		
REF	FUNCTION	PART#	KNOB	{NEW}
P4	LEFT GAIN	#4434	9916	N
P5	RIGHT GAIN	#4434	9916	N
P1	SUB GAIN	#4434	9916	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N

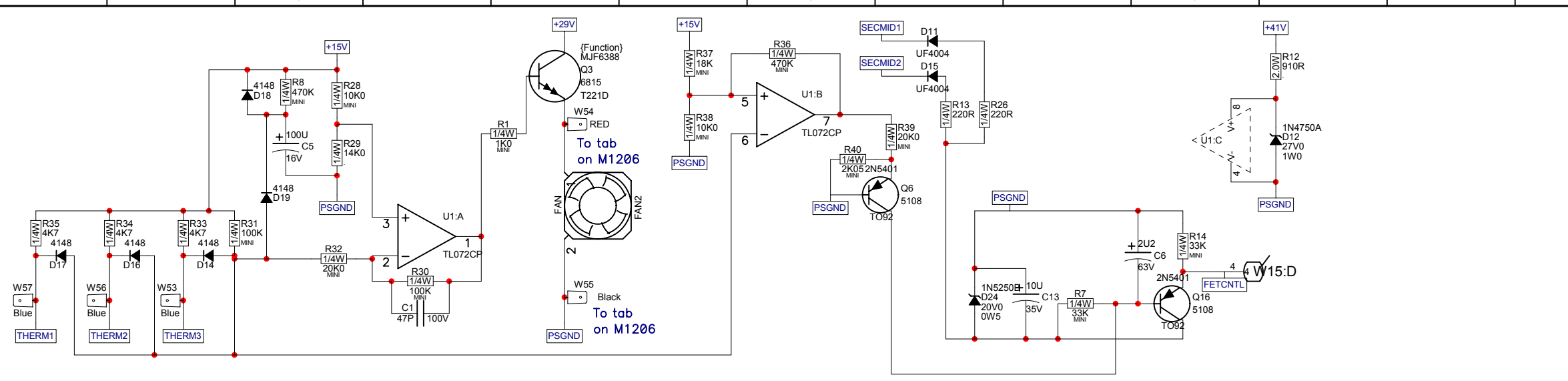
**PRODUCTION NOTES:**

StepAndRepeat - X2@6.400,Y1@0.000



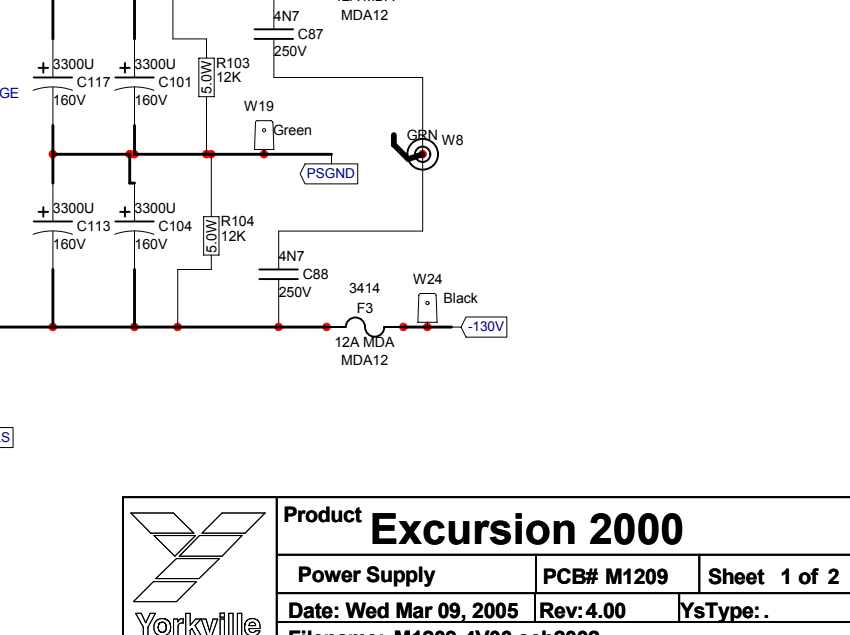
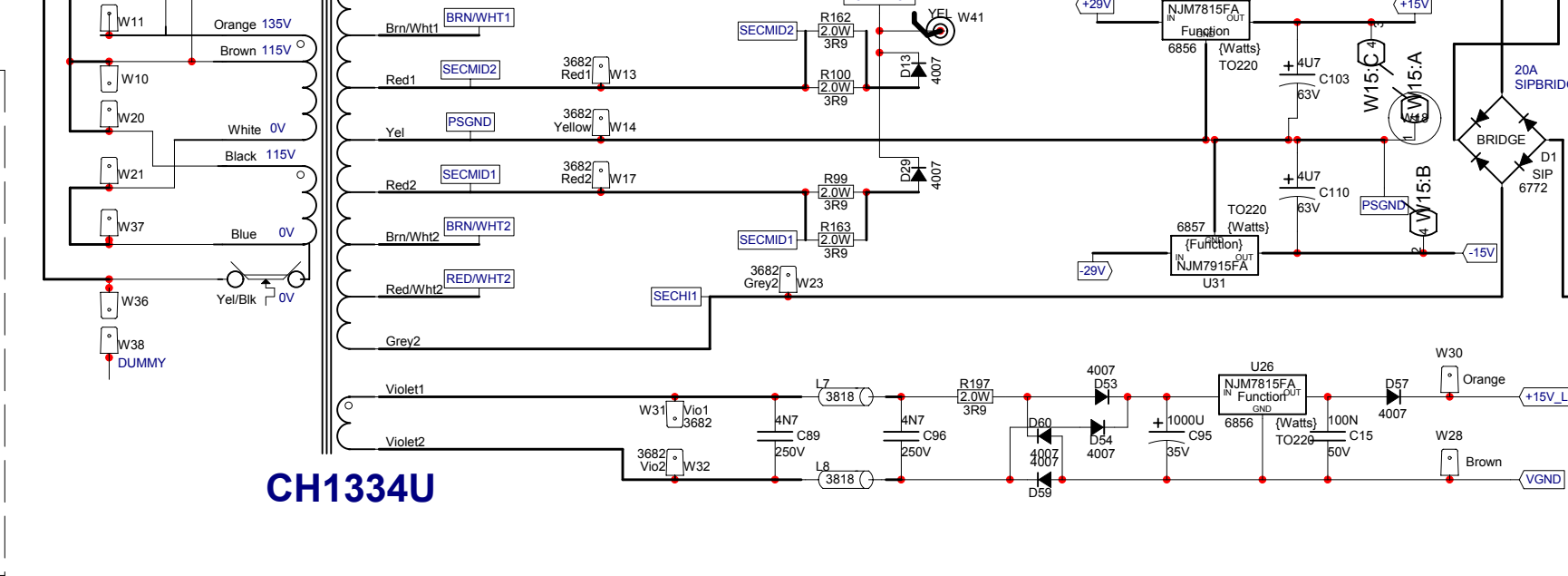
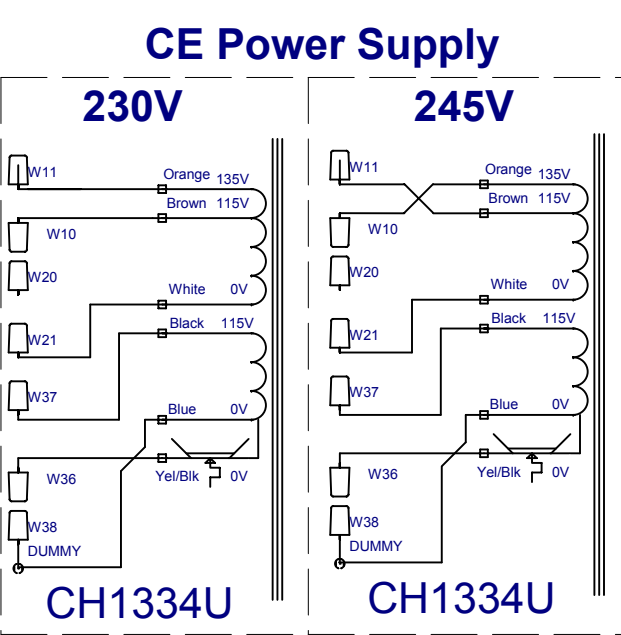
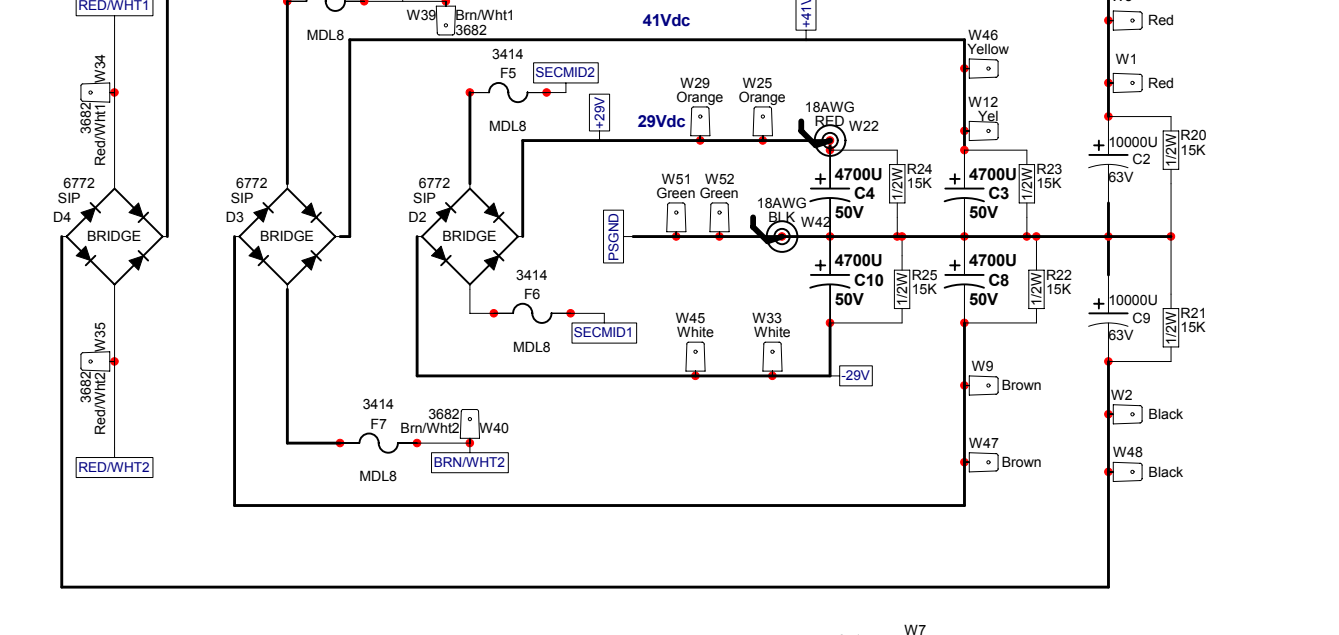
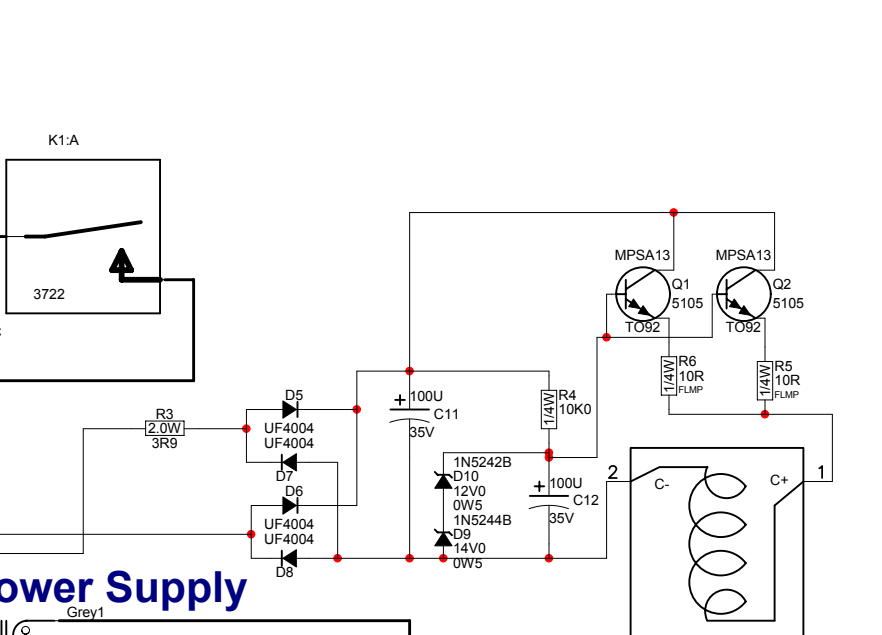
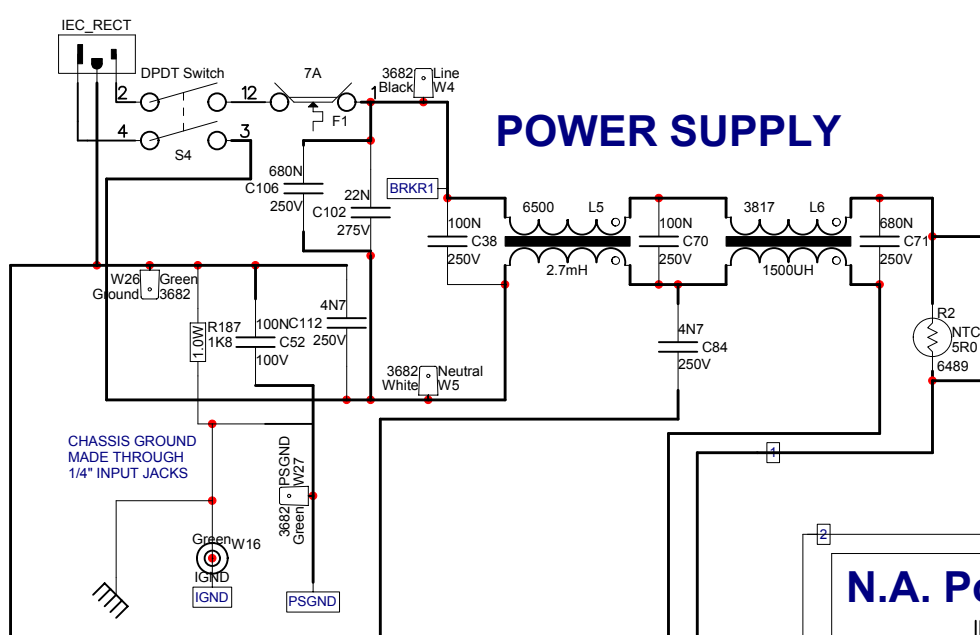
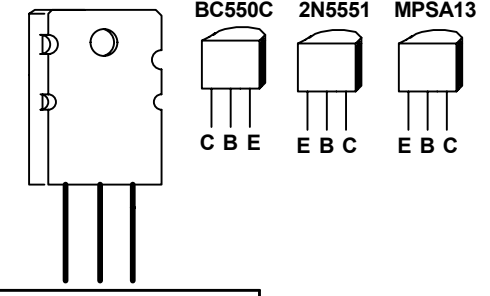
SHEAR

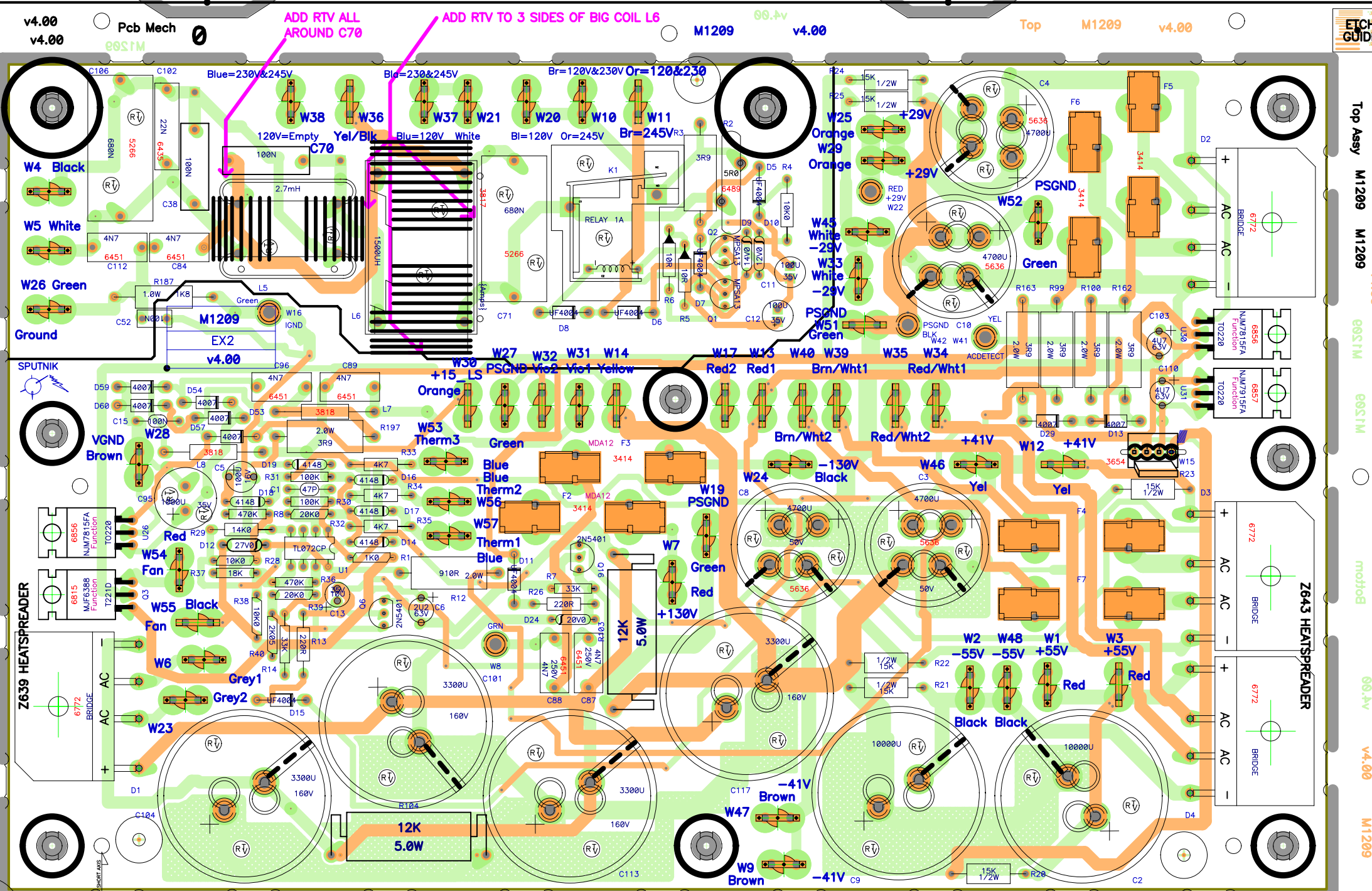
ETCH GUIDE



**M1209 PCB History**

MODEL(S):-		EX2	
#	DATE	VER#	DESCRIPTION OF CHANGE
1	2-JUN-2004	V1.00	Maiden Voyage
2	2-Jul-2004	V2.00	Thickened traces added notes
3	D	V	N
4	SEP-24-2004	V3.00	PC#6733&6735 CHANGED W15 TO #3654 (CK)
5	OCT-08-2004	.	Force update #3682 & changed W51 tab to graphic ForDS
6	OCT-21-2004	.	Added free pad to accommodate new C70 15mm lead spacing
7	NOV/4/2004	.	PC#6752 CORRECT F2 F3 8A TO 12A (HG)
8	FEB-09-2005	V4.00	PC#6750 (GT) BOARD MADE WITH 15MM SPACE FOR C70
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N





**M1209 PCB History**

MODEL(S):-	EX2	DATE	VER#	DESCRIPTION OF CHANGE
1		2-JUN-2004	V1.00	Maiden Voyage
2		2-Jul-2004	V2.00	Thickened traces added notes Changed R104 and R103 to kink leads.
3			V	
4		SEP-24-2004	V3.00	PC#6733&6735 CHANGED W15 TO #3654 (CK)
5		OCT-08-2004		Force update #3682 & changed W51 tab to graphic ForDS
6		OCT-21-2004		Added free pad to accomodate new C70 15mm lead spacing
7		NOV/4/2004		PC#6752 CORRECT F2 F3 8A TO 12A (HG)
8		FEB-09-2005	V4.00	PC#6750 (GT) FORCE UPDATED C70 #5242 100N
9			V	N
10			V	N
11			V	N
12			V	N
13			V	N

**M1209 DRILL HISTORY**

MODEL(S):-	EX2	DATE	VER#	DESCRIPTION OF CHANGE
1		D	V	N
2		D	V	N
3		D	V	N
4		D	V	N
5		D	V	N
6		D	V	N

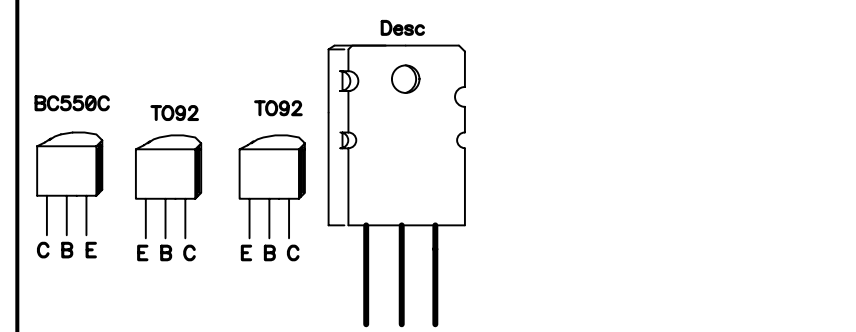
**M1209 PENDING CHANGES**

MODEL(S):-	EX2	PC#	PENDING CHANGE
1		PC	X
2		PC	X
3		PC	X
4		PC	X
5		PC	X
6		PC	X

PLACE IMPLEMENTED CHANGES INTO BOARD HISTORY

### PRODUCTION NOTES

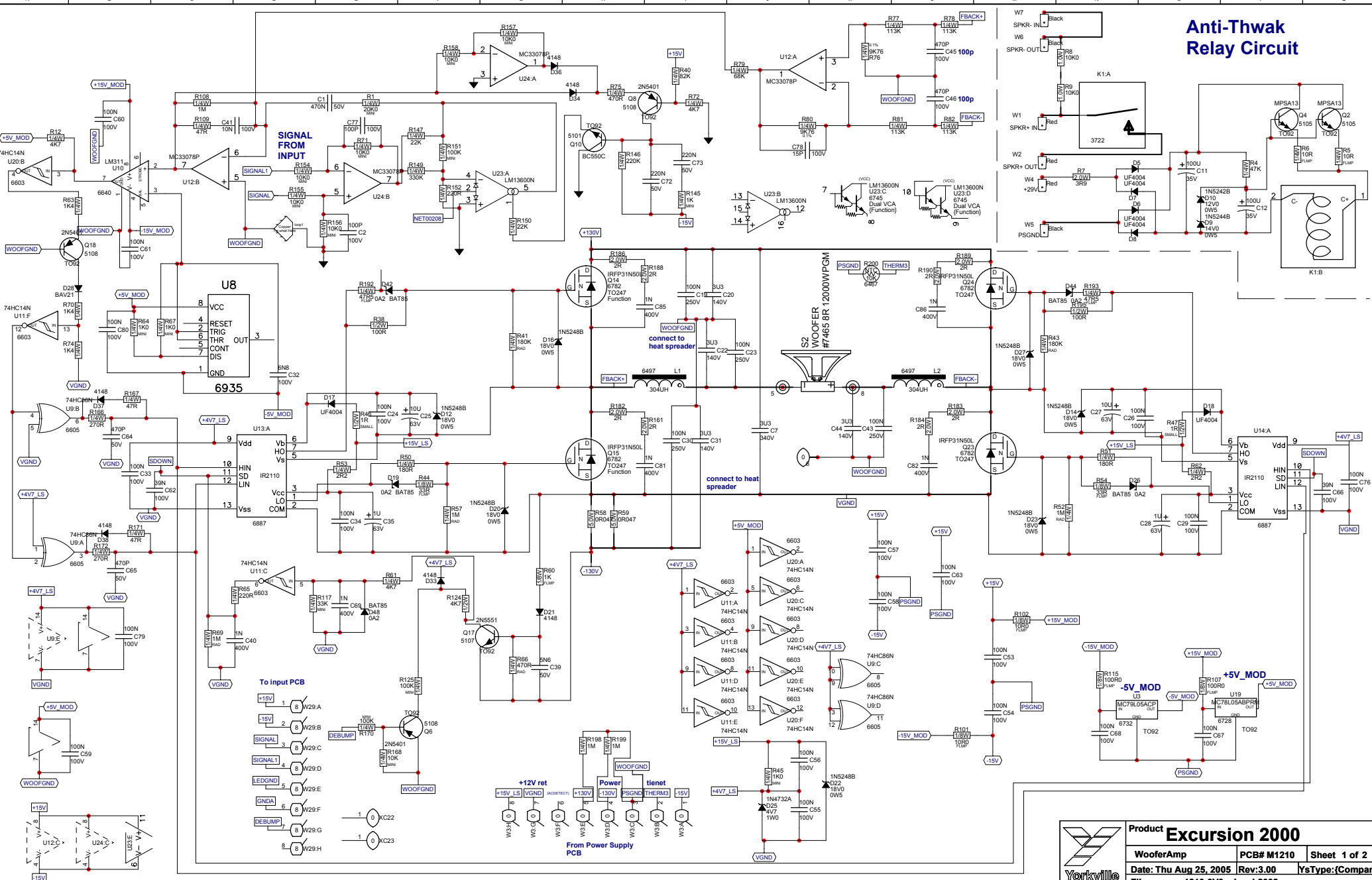
- \* Hardware for mounting devices to heatspreader: 4-40 screw part# 8741, washer part# 3501, mica grease, kepnut part# 8701
- 2. ADD RTV TO 3 SIDES OF BIG COIL (LOOK AT L6 TO SEE ARROWS OF WHERE TO APPLY)
- 3. ADD RTV ALL AROUND C70



BlankSize - 11650x7650

Layers for wires

# Anti-Thwak Relay Circuit



# PRODUCTION NOTES

Hardware for mounting devices to heatspreader:

8874 screw, 3719 spring, 8581 holder, 3895 silpad, 8787 nut

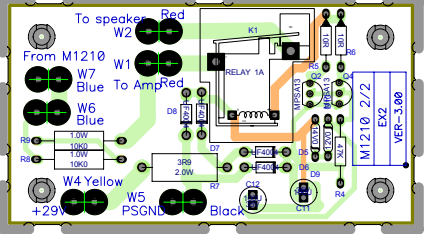
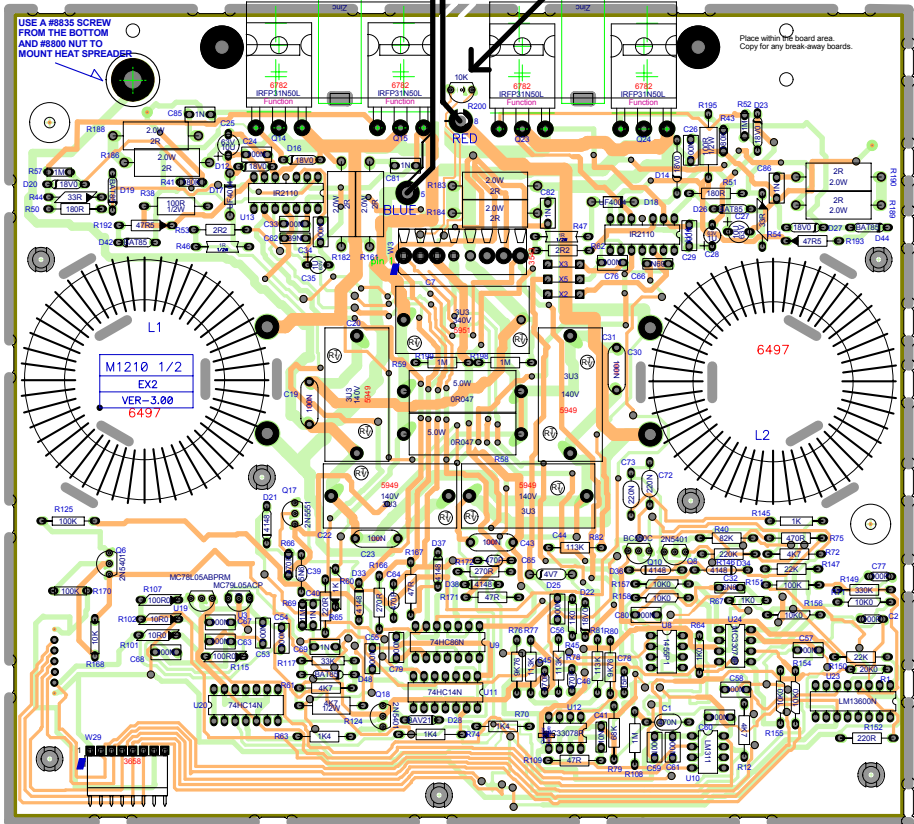
Put thermal compound between R200 and

heatspreader before putting silpad on PCB

U13 and U14 have had pin 4 modified for more clearance (R0606700)

Put thermal compound between R200 and heatspreader before putting silpad on PCB

BlankSize: 9380x13130  
GCP:10AV00C



Sputnik02 - M1210 v3.00

Top  
Sputnik02 - M1210 v3.00

Pcb Mech

Sputnik02 - M1210 v3.00  
Sputnik02 - M1210 v3.00  
60.Ev 01STM - S0injtu2 motto8

Top Assy



M1210\_PCB\_DATABASE\_HISTORY

MODEL(S):-	EX2	DATE	VER#	DESCRIPTION OF CHANGE
		28-MAY-2004	00	PC# 6714 Removed R2, R3, C3
		July 24-2004	00	Fixed open tracks
		Sep-22-2004		PC#6731: C81,C82,C85,C86 REPLACE TO #5213
		SEP-29-2004	00	REPLACED C40 AND C69 WITH #5213 (CK)
				PC#6746:REPLACED C28&C35, C54 WITH 5255 (GT)
				PC#6734:W29 CHANGED TO 3658 & MOVED LOWER (CK)
				Moved vias from under resistors.
		AUG-25-2005		PC#6931:SPEAKER #18/065Y8M->#7459

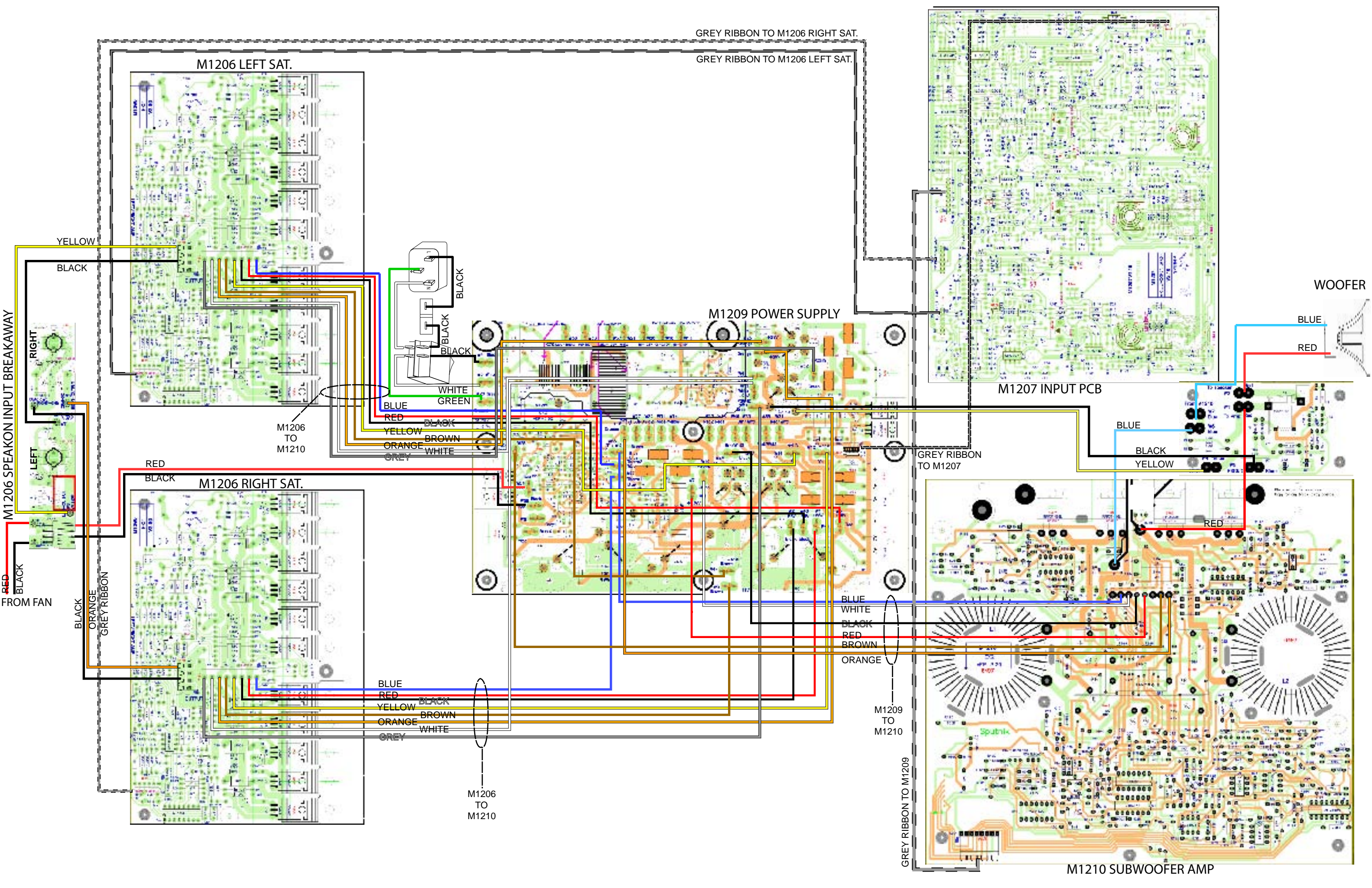
M1210 DRILL HISTORY

MODEL(S):-	EX2	DATE	VER#	DESCRIPTION OF CHANGE

M1210 PENDING CHANGES

MODEL(S):-	EX2	PC#	PENDING CHANGE
		68814	Change C11 and C12 Spacing from .1 to .2

\*PLACE IMPLEMENTED CHANGES INTO BOARD HISTORY



M1206 LEFT SAT.

GREY RIBBON TO M1206 RIGHT SAT.

GREY RIBBON TO M1206 LEFT SAT.

WOOFER

M1209 POWER SUPPLY

M1207 INPUT PCB

M1206 RIGHT SAT.

GREY RIBBON TO M1207

M1206 SPEAKON INPUT BREAKAWAY

M1210 SUBWOOFER AMP

RED FROM FAN

BLACK

YELLOW

BLACK

RIGHT

LEFT

M1206 TO M1210

BLUE  
RED  
BLACK  
YELLOW  
ORANGE  
GREY  
WHITE  
GREEN  
BROWN

RED  
BLACK

BLACK  
ORANGE  
GREY RIBBON

BLUE  
RED  
YELLOW  
ORANGE  
GREY  
BLACK  
BROWN  
WHITE

M1206 TO M1210

BLUE  
WHITE  
BLACK  
RED  
BROWN  
ORANGE

M1209 TO M1210

GREY RIBBON TO M1209

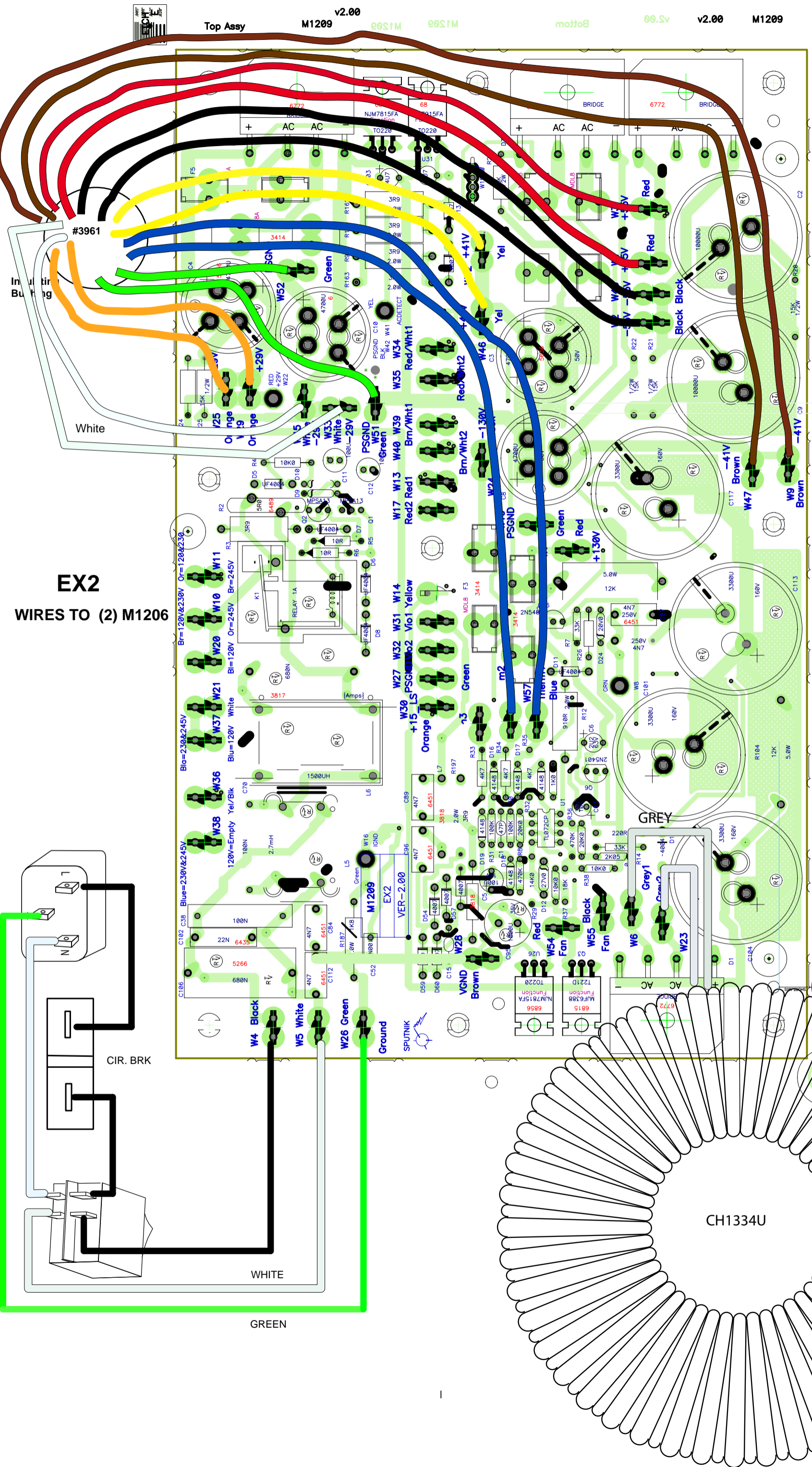
BLUE  
BLACK  
YELLOW

BLUE  
RED

RED

BLUE  
WHITE  
BLACK  
RED  
BROWN  
ORANGE





Layers for wires

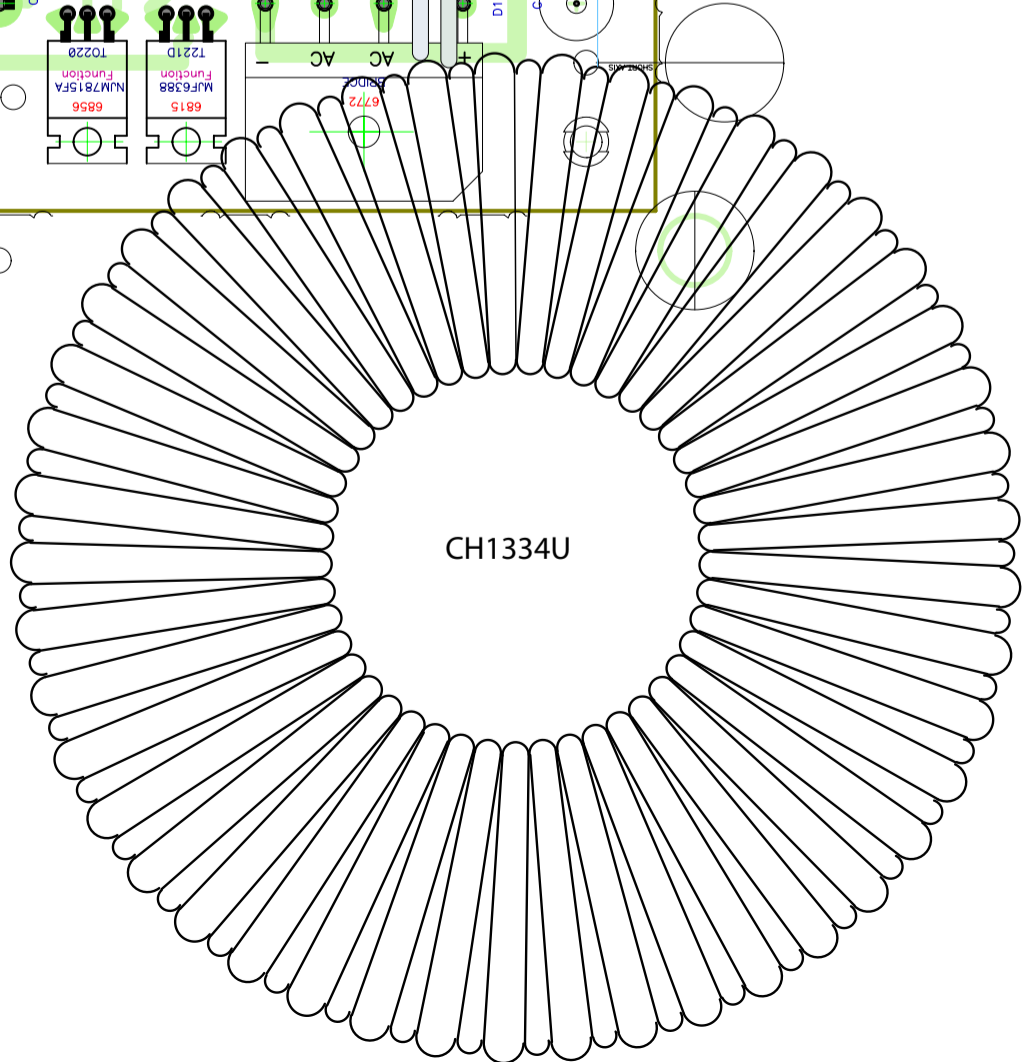
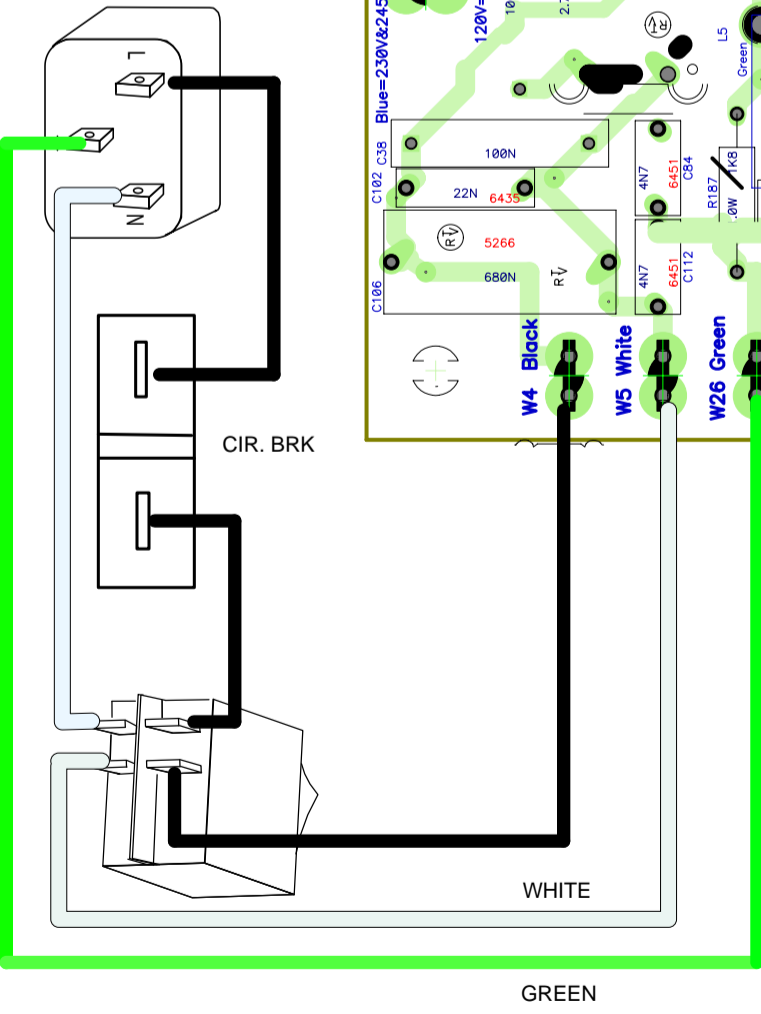
ROUTE GAGE  
0.817HOLE

BlankSize - 11650x7650

BlankSize - 11650x7650

BlankSize - 11650x7650

### EX2 WIRES TO (2) M1206



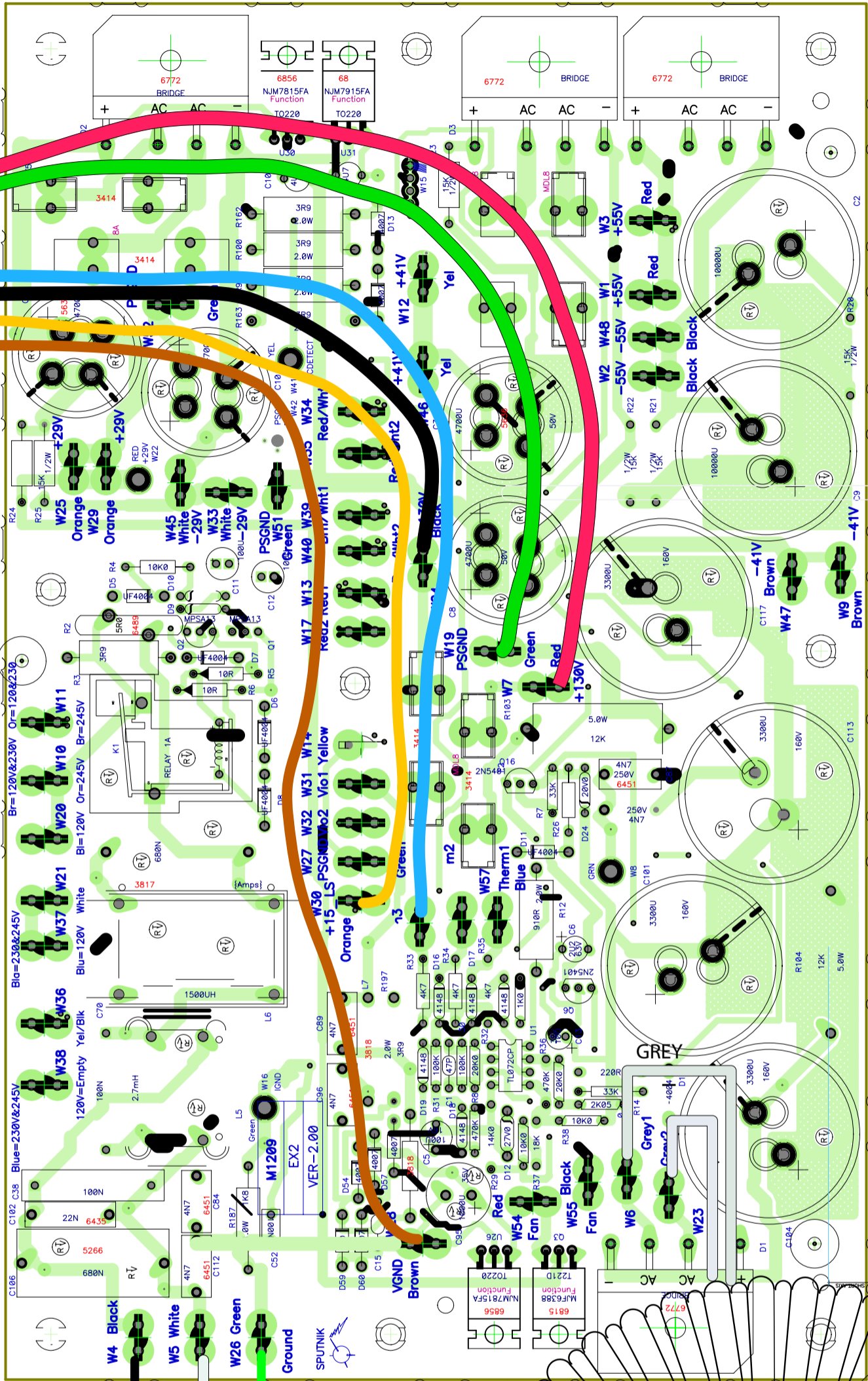
CH1334U



#3961

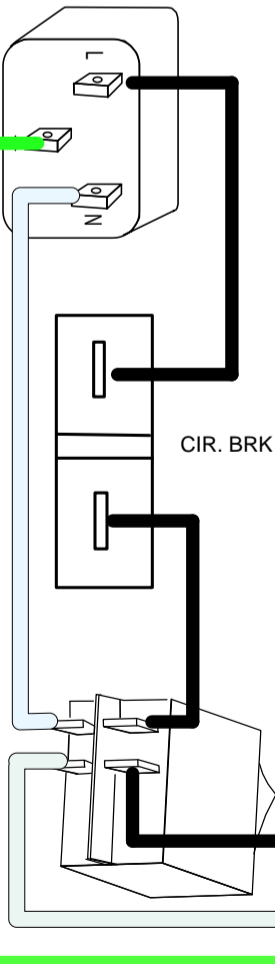
Insulating Bushing

EX2  
WIRES TO M1210



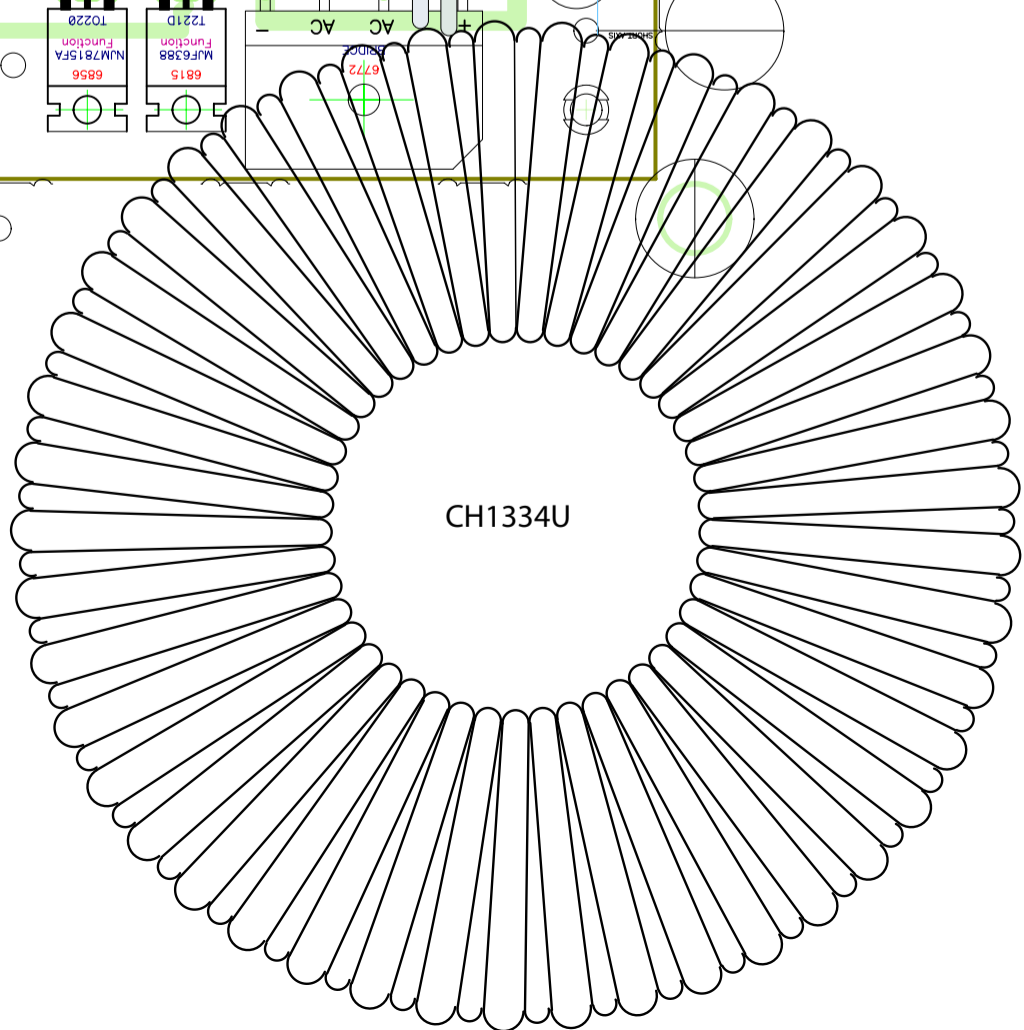
BlankSize - 11650x7650

BlankSize - 11650x7650



WHITE

GREEN



CH1334U

Layers for wires

ROUTE GAGE  
0.017HOLE



EX2

230V CE

PRIMARY WIRING

ORN

BRN

N/C

WHT

BLK

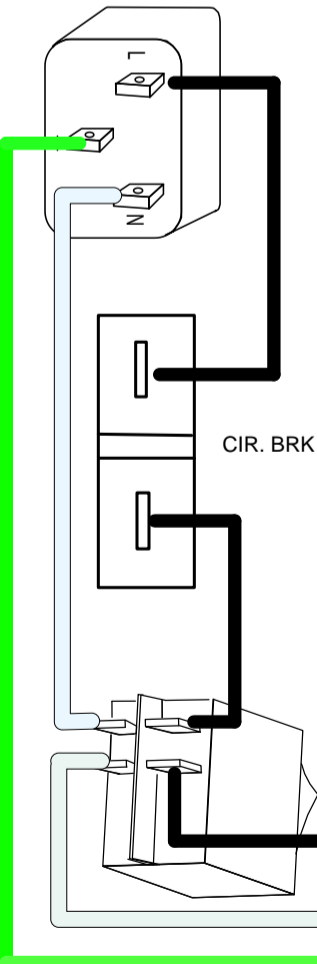
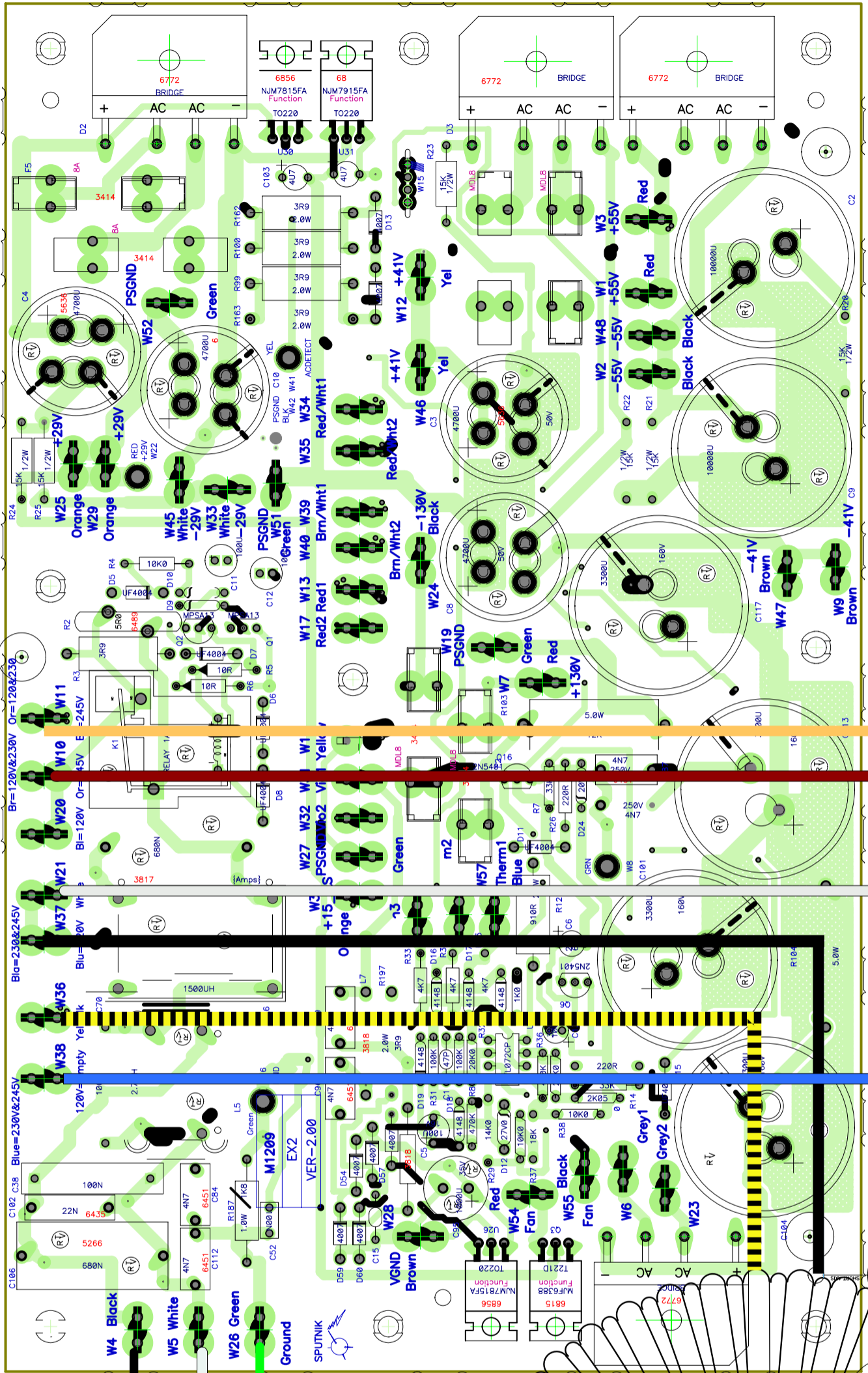
YEL/BLK

BLUE

CIR. BRK

WHITE

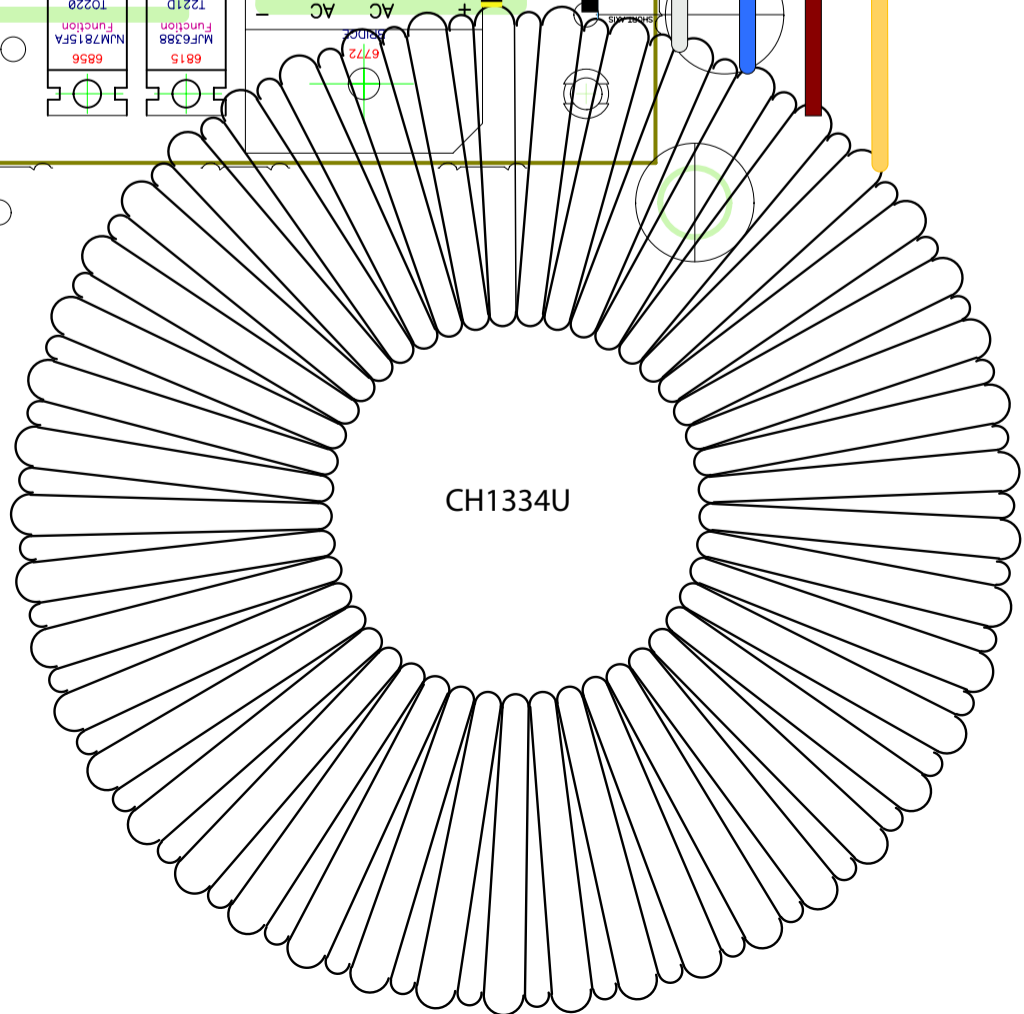
GREEN



BlankSize - 11650x7650

Layers for wires

ROUTE GAGE  
0.8175HOLE

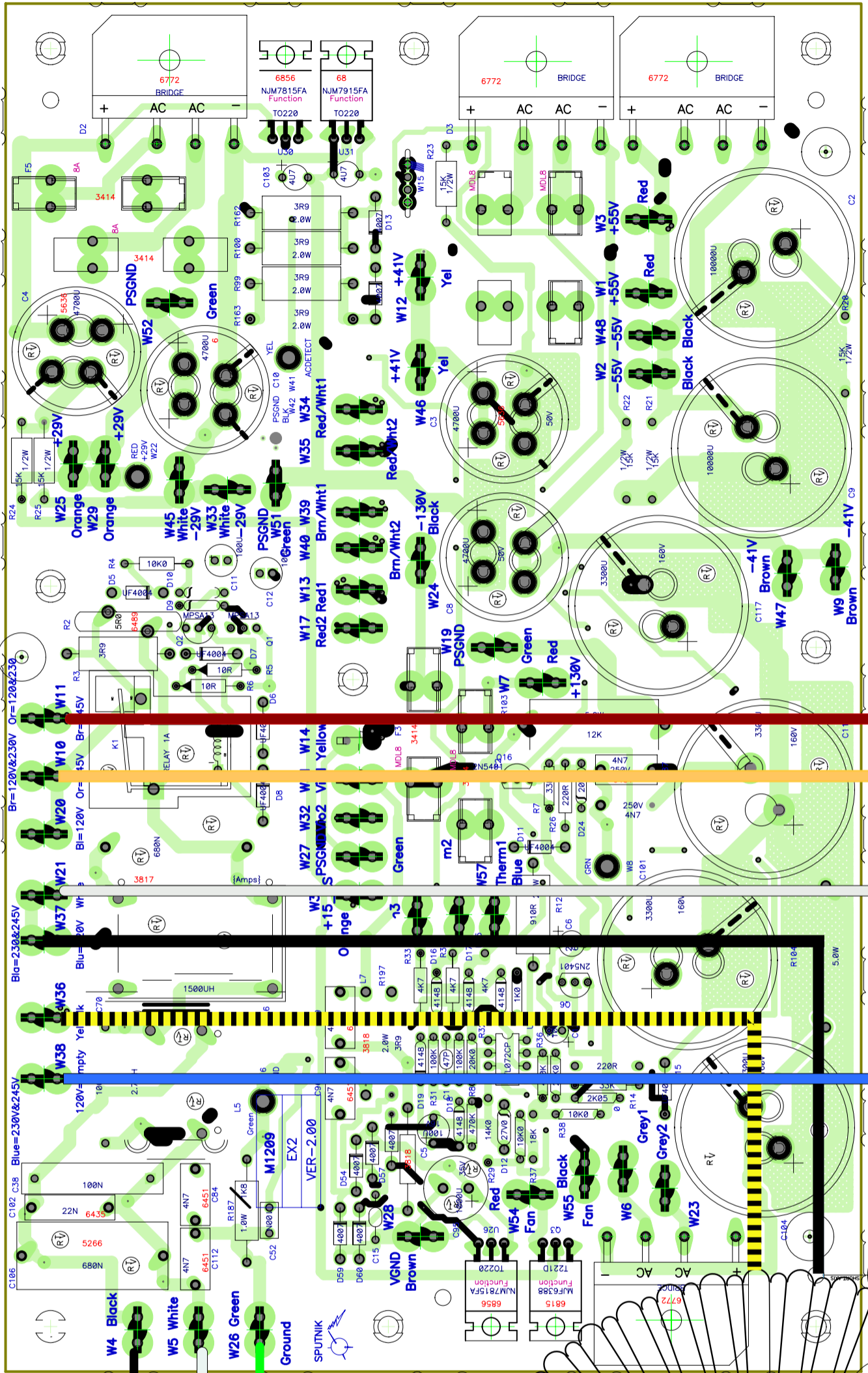




Top M1209 v2.00

60.Sv v2.00 M1209

BRN  
ORN  
N/C  
WHT  
BLK  
YEL/BLK  
BLUE



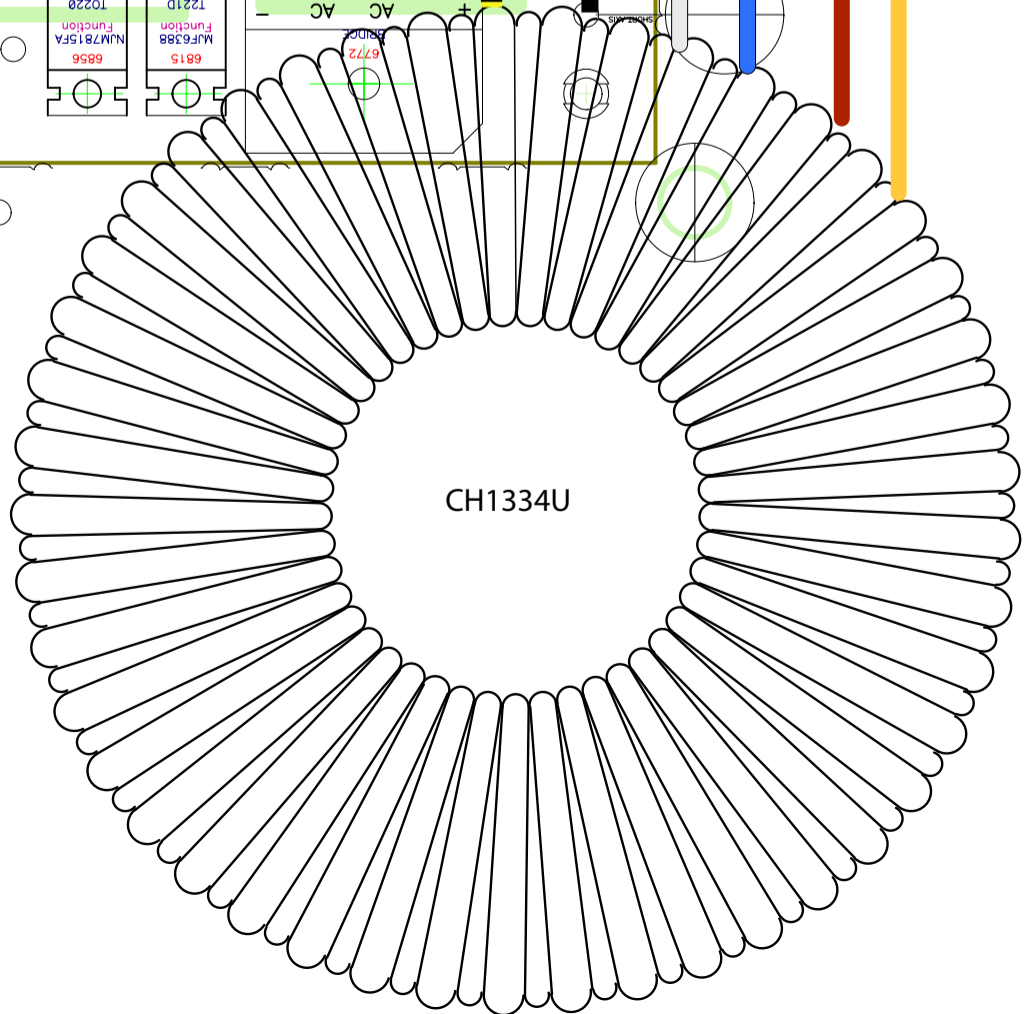
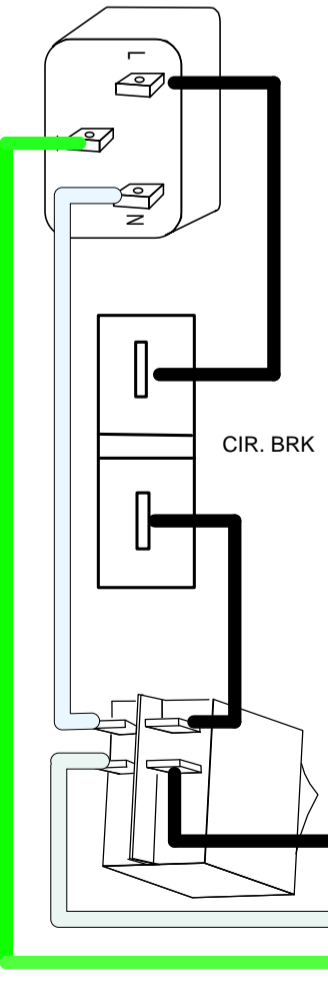
Layers for wires

BlankSize - 11650x7650

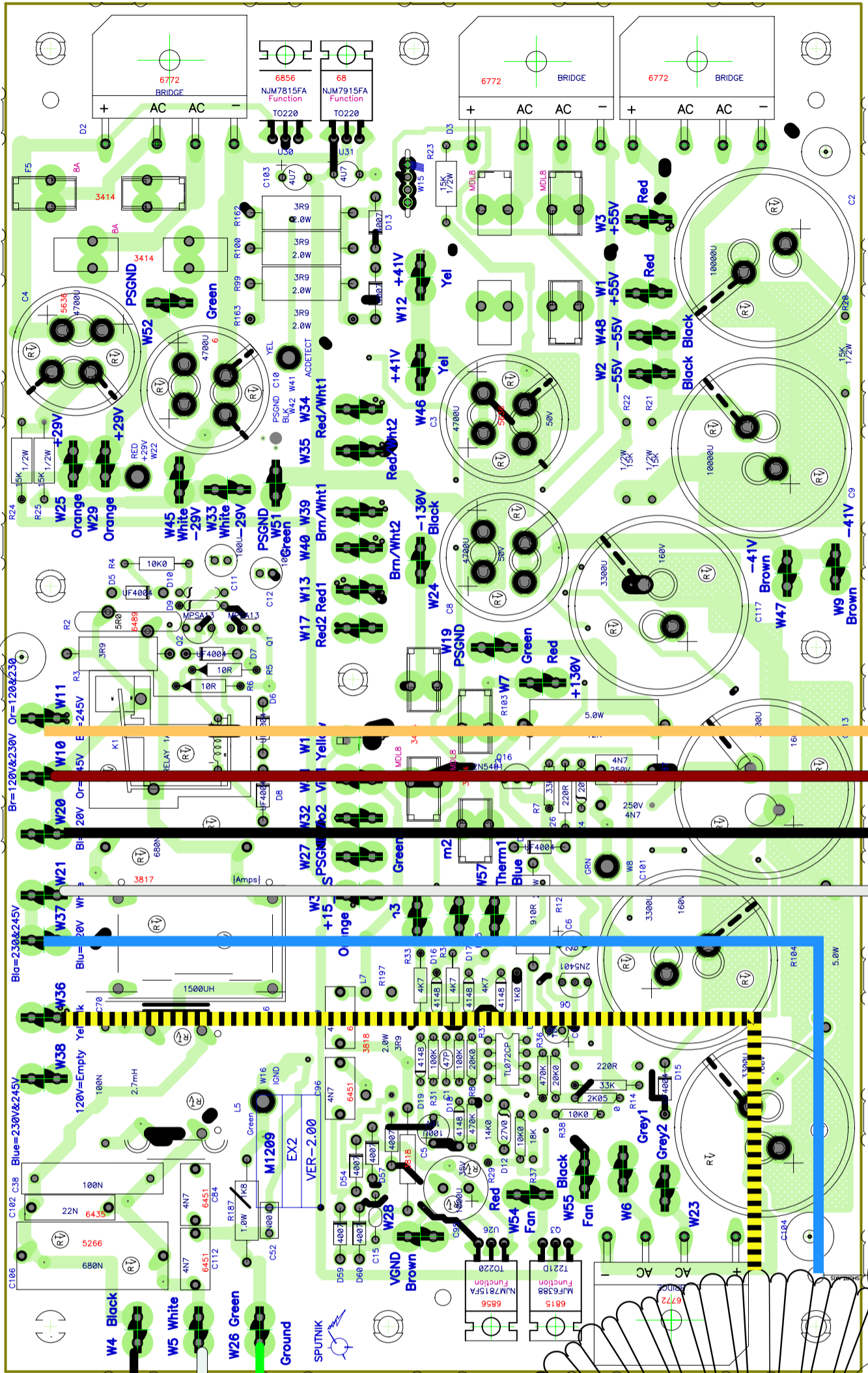
BlankSize - 11650x7650

EX2

245VAC CE  
PRIMARY WIRING



CH1334U



Layers for wires  
ROUTE GAGE  
0.0175HOLE

BlankSize - 11650x7650

EX2

120V NA

PRIMARY WIRING

ORN

BRN

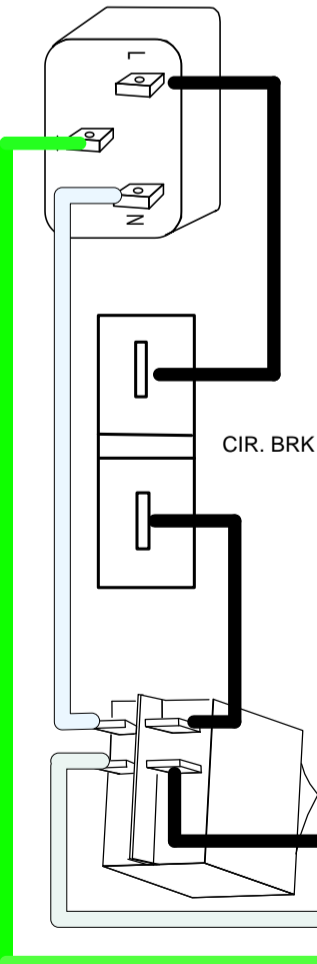
BLK

WHT

BLUE

YEL/BLK

NC



WHITE

GREEN

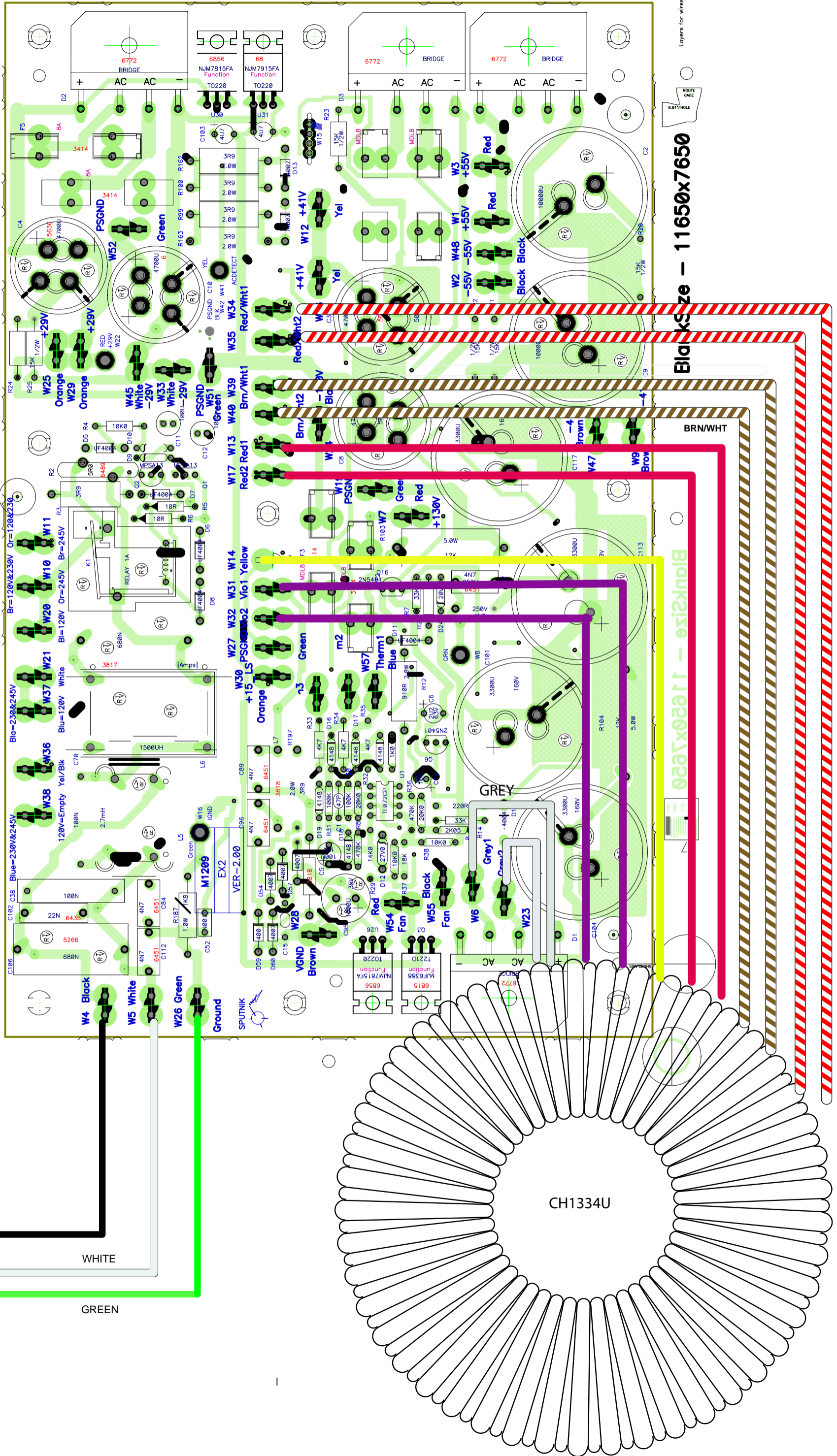
CH1334U



Top M1209 v2.00

### EX2

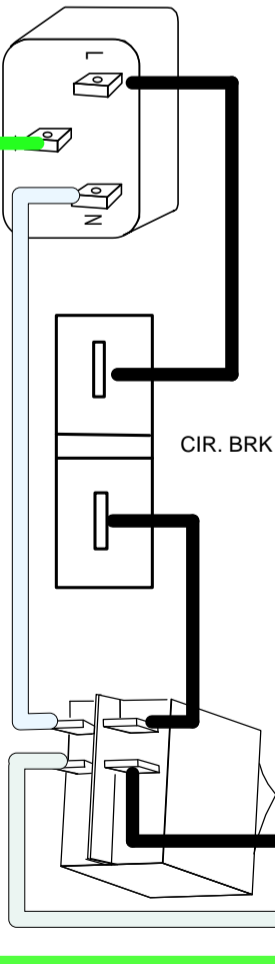
### TRANSFORMER SECONDARY WIRING



Black Size - 11650x7650

BRN/WHT

Black Size - 11650x7650



CIR. BRK

WHITE

GREEN

CH1334U

Layers for wires



0.81mm HOLE