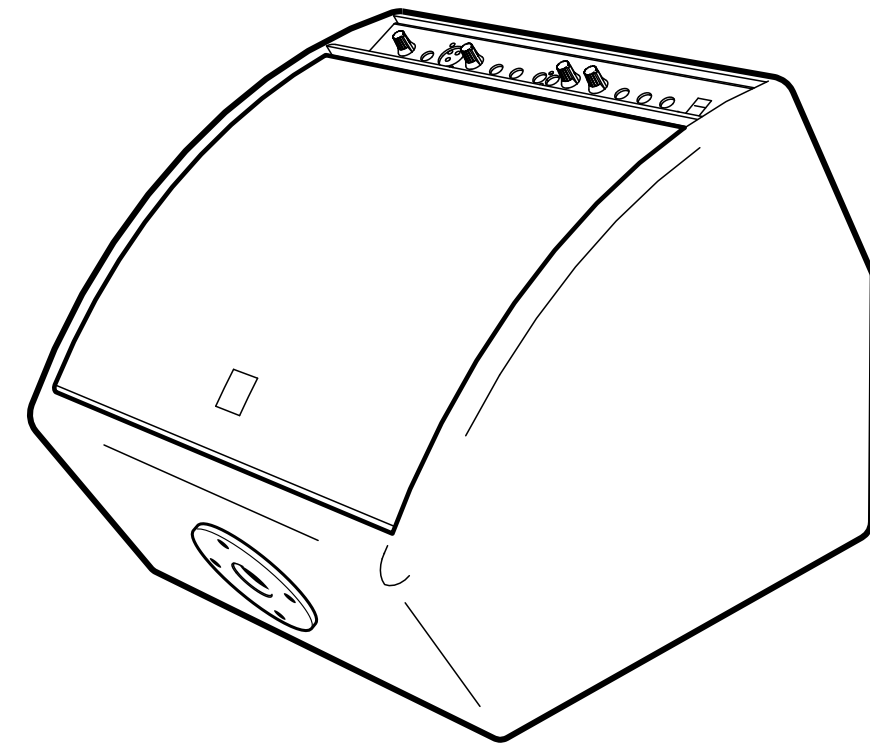


SERVICE MANUAL MANUEL DE SERVICE



100KW

POWER WEDGE

MODEL TYPE: 100W



WEB ACCESS: <http://www.yorkville.com>

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Quality and Innovation Since 1963

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IMPORTANT SAFETY INSTRUCTIONS



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

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

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.

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 étre comprises avant l'opération de votre appareil. Conservez S.V.P. ces instructions pour consultations ultérieures

Emballage:

Conservez la boîte au cas ou l'appareil devait étre 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 étre 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 étre 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 étre exposé à des égouttements d'eau ou des éclaboussures et qu'aucun objet rempli de liquide tel que des vases ne doit étre 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 connection extérieure doivent étre effectués par un opérateur formé ou en utilisant des cordons déjà préparés.

Cordon d'alimentation:

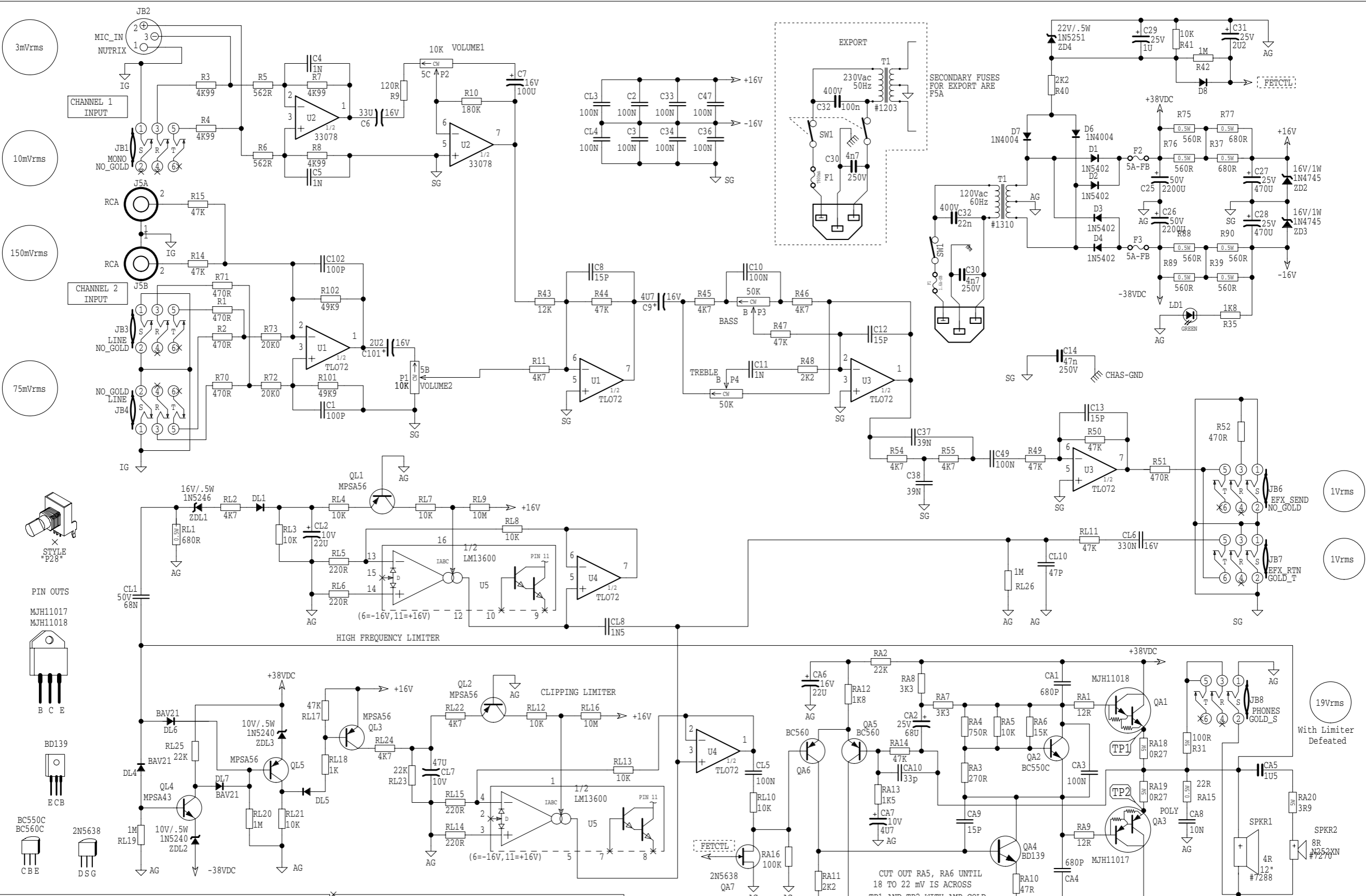
Évitez d'endommager le cordon d'alimentation. **N'UTILISEZ PAS L'APPAREIL** si le cordon d'alimentation est endommagé.

Service:

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

YS No.	Description	Qty.
6401	GRN 3MM LED 1V9 6MA HIGHEFF	1
6425	BAV21 200V 0A25 DIODE T&R	3
6825	1N4148 75V 0A45 DIODE T&R	3
6438	1N4004 400V 1A0 DIODE T&R	2
6827	1N5402 200V 3A0 DIODE	4
6461	1N5240BRL 10V0 0W5 ZENER 5% T&R	2
6822	1N4745A 16V0 1W0 ZENER 5% T&R	2
6824	1N5246B 16V0 0W5 ZENER 5% T&R	1
6463	1N5251BRL 22V0 0W5 ZENER 5% T&R	1
5101	BC550C TO92 NPN TRAN T&R TB	1
5102	BC560C TO92 PNP TRAN T&R TB	2
5104	MPSA56 TO92 PNP TRAN T&R TA	4
5109	MPSA43 TO92 NPN TRAN TA	1
5119	2N5638 TO92 NCH JFET T&R TC	1
6774	BD139 TO126 NPN TRAN TG	1
6779	MJH11018 TO218 NPN TRAN DARL TI	1
6802	MJH11017 TO218 PNP TRAN DARL TI	1
6840	MC33078P IC DUAL OP AMP	1
6882	TL072CP IC FET DUAL OP AMP	3
6745	LM13600N IC XCONDUCTANCE AMP	1
5402	.15P 100V 10%CAP T&R BEAD NPO	4
5406	.33P 50V 10%CAP T&R BEAD NPO	1
5408	.47P 100V 10%CAP T&R BEAD NPO	1
5410	100P 100V 10%CAP T&R BEAD NPO	2
5420	680P 50V 10%CAP T&R BEAD NPO	2
5422	.1N 50V 10%CAP T&R BEAD NPO	3
5424	.1N5 50V 10%CAP T&R BEAD Y5P	1
6451	.4N7 250V 20%CAP BLK Y 10MM AC	1
5834	.10N 250V 20%CAP BLK RAD POLY FLM	1
6435	.22N 275V 20%CAP BLK X2 15MM AC	1
5307	.39N 50V 10%CAP T&R BEAD X7R	2
5226	.68N 100V 5%CAP T&R RAD .2"FLM	1
5314	100N 50V 10%CAP T&R BEAD X7R	12
5233	330N 63V 5%CAP T&R RAD .2"FLM	1
5255	.1U 63V 20%CAP T&R RAD .2"EL	1
5925	.1U5 100V 10%CAP BLK RAD POLY FLM	1
5257	.2U2 63V 20%CAP T&R RAD .2"EL	2
5259	.4U7 63V 20%CAP T&R RAD .2"EL	2
5260	.22U 50V 20%CAP T&R RAD .2"EL	2
5961	.33U 16V 20%CAP T&R RAD .2"NIP	1
5627	.47U 10V 20%CAP BLK RAD NP	1
5265	.68U 25V 20%CAP T&R RAD .2"EL	1
5267	100U 25V 20%CAP T&R RAD .2"EL	1
5621	470U 63V 20%CAP BLK 12X25MM EL	2
5887	2200U 50V 20%CAP BLK 18X27MM EL	2
4403	.10K 5B LIN 16MM P14	1
4409	.10K 5C R/A 16MM P14	1
4406	.50K 5B LIN 16MM P14	2
3682	250 MALE PCB TAB BULK CARTRIGE	10
3498	1/4" JCK PCB MT HORZ	4
3523	1/4" JCK PCB MT HORZ GOLD T	1
3527	1/4" JCK PCB MT HORZ GOLD S	1
3460	RCA DUAL PCB MT VERT GOLD .475"	1
3657	XLR FEML PCB MT HORZ NO SHELL	1
3451	EYELET SMALL 0.089 OD PLATED	10
3414	INTERNATIONAL PC MOUNT FUSEHOLDER	6
2406	1.6 AMP SLO-BLO .25X1.25 FUSE	1
2415	5.0 AMP FAST-BLO .25X1.25 FUSE	2
2476	T800MA 5X20MM FUSE	1
2479	F5A 5X20MM FUSE	2
3563	TRANSISTOR MOUNTING BRACKET	1
3800	BELLY BUTTON #BB1 CORDS CANADA	2
3804	SNAP ON 1.5" INSULATING BUSHING	1
3438	230 AC RECEPTACLE FUSE & 250 TABS	1
3795	#8 GROUND LUG ZIERICK 505-169	2
3810	4" NYLON CABLE TIE	8
8486	M3.5 EURO SPRING TOOTH LOCKWASHER	2
8693	S ROTARY KNOB GREY	4
3474	6' 3X.075MM AC LINE CORD EURO-REMOV	1
8800	6-32 KEPS NUT ZINC	7
8787	8-32 KEPS NUT ZINC	4
8898	1/4-20 CAGE NUT C7998142027	4
3830	TO218 PREGREASED MICA 56-78-2AP	2
4597	22AWG STRAN TC WIR JMP	6
4599	22AWG SOLID SC WIR T&R JMP	29
4729	5.0W 0R27 5% BLK RES	2
4734	5.0W 3R9 5% BLK RES	2
4815	1/4W 12R 5% T&R RES	1
4618	1/2W 22R 5% T&R RES	1
4817	1/4W 47R 5% T&R RES	1
4692	5.0W 100R 5% BLK RES	1
4897	1/4W 120R 5% T&R RES	1
4857	1/4W 220R 5% T&R RES	4
4867	1/4W 270R 5% T&R RES	1
4821	1/4W 470R 5% T&R RES	5
4671	1/2W 560R 5% T&R RES	6
4799	1/4W 562R 1% T&R RES	2

YS No.	Description	Qty.
4673	1/2W 680R 5% T&R RES	3
4873	1/4W 680R 5% T&R RES	1
4823	1/4W 1K 5% T&R RES	2
4824	1/4W 1K5 5% T&R RES	1
4825	1/4W 1K8 5% T&R RES	2
4847	1/4W 2K2 5% T&R RES	2
4826	1/4W 3K3 5% T&R RES	2
4827	1/4W 4K7 5% T&R RES	8
4639	1/4W 4K99 1% T&R RES	4
4829	1/4W 10K 5% T&R RES	10
4856	1/4W 12K 5% T&R RES	1
4830	1/4W 15K 5% T&R RES	1
6123	1/4W 20K0 1%MINI MF T&R RES	2
4832	1/4W 22K 5% T&R RES	3
4834	1/4W 47K 5% T&R RES	9
4803	1/4W 49K9 1% T&R RES	2
4838	1/4W 100K 5% T&R RES	1
4849	1/4W 180K 5% T&R RES	1
4844	1/4W 1M 5% T&R RES	4
4809	1/4W 10M 5% T&R RES	2
9150	.081" 48X96 UTILITY ALUMINUM	2.7
8842	#4 X 5/16 PAN QUAD TYPE A JS500 BLK	2
8801	6-32 X 3/8 PAN PH TAPTITE JS500	2
8829	6-32 X 3/8 FLAT PH TAPTITE BO#4 HEA	4
8806	6-32 X 1/2 PAN PH TAPTITE JS500	3
8823	6-32 X 1 PAN PH TAPTITE JS500	3
8763	8-32 X 1/2 PAN PH MS JS500 BLACK	4
3833	8 X 3/8 (250 OD,.171 ID)NY SPACER	2
3741	.5 SPACER ID-.171 OD-.25 #912-500	3
3511	#6 FLAT WASHER NYLON	2
8852	#6 INTERNAL TOOTH LOCKWASHER	1
3702	DPST ROKR SW 187" AC PWR SEMKO	1
1310	4200 BLOC-80B/100G S120B/100K XFMR	1
3.3	M517/M579 X 2 100W/100KW PCB	0.5

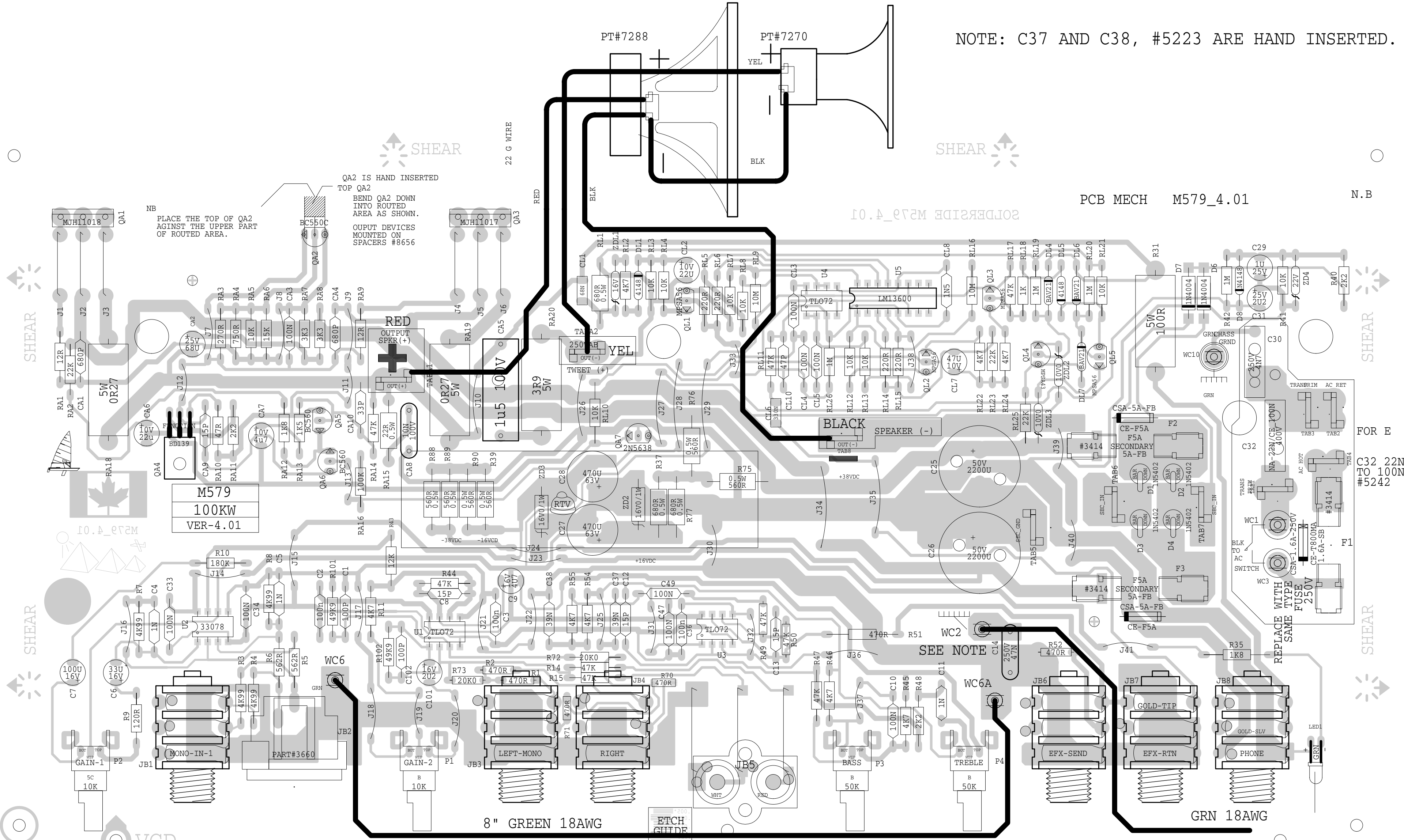


M579.SCH_DATABASE_HISTORY			
#	DATE	VER#	DESCRIPTION OF CHANGE
1	FEB/2000	1.00	DERIVED FROM M517
2	MAR/23/00	1.00P3	ADD C14_R48 1K-2K2
3	MAY/02/00	1.00	C32_FOR CE_22N->100N_PT#5242
4	SEP/04/02	1.10	PC#6564_RA4_680R->750R
5	SEP/13/02	1.20	ADD AC_SKT
6	AUG/14/06	1.30	PC#7150, REPLACE C37 AND C38 #5307 WITH #5223
7			HAND INSERTED
8			
9			
10			

M579.PCB_POT_LIST					
#	REF	FUNCTION	PART#	KNOB	AS OF
1	P1	GAIN-2	#4403	#8641	FEB/2000
2	P2	GAIN-1	#4409	.	.
3	P3	BASS	#4406	.	.
4	P4	TREBLE	#4406	.	.
5	D1		N		D
6	D2		N		D
7	D3		N		D
8	D4		N		D
9	D5		N		D
10	D6		N		D

NOTE:
 ALL UNMARKED DIODES ARE 1N4148
 AC VOLTAGES MEASURED AT 1KHz WITH
 VOLUMES AT 10, TONES AT 0

NOTE: C37 AND C38, #5223 ARE HAND INSERTED.



M579
100KW
VER-4.01

PCB MECH M579_4.01

N.B

NB PLACE THE TOP OF QA2 AGAINST THE UPPER PART OF ROUTED AREA.

QA2 IS HAND INSERTED
TOP QA2
BEND QA2 DOWN INTO ROUTED AREA AS SHOWN.
OUTPUT DEVICES MOUNTED ON SPACERS #8656

SOLDSIDE M579_4.01

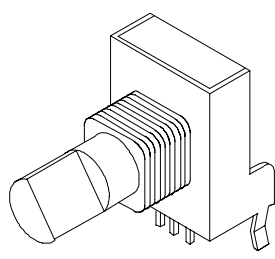
FOR E
C32 22N
TO 100N
#5242

SEE NOTE

TO CHASSIS GROUND

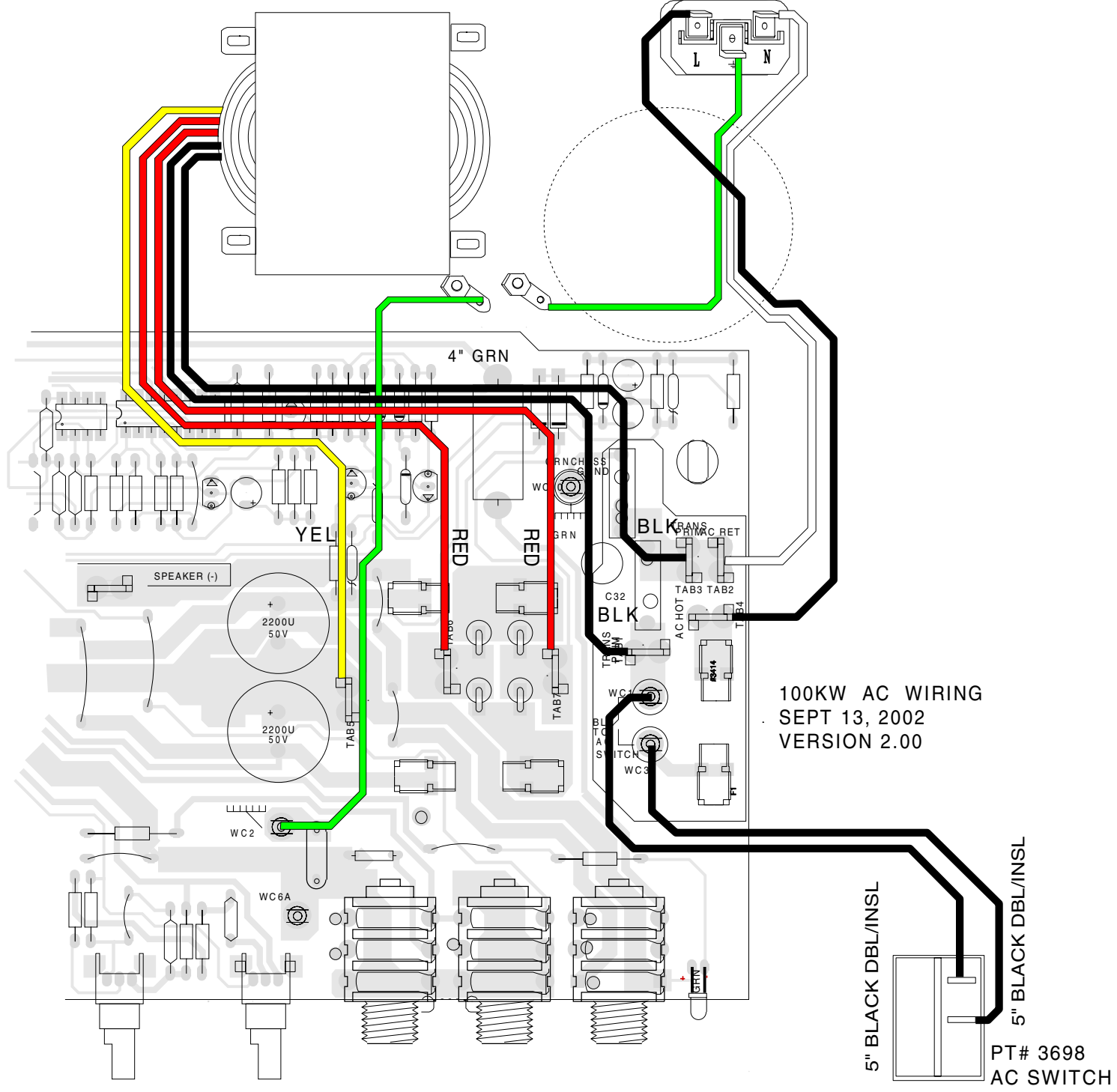
M579.PCB_DATABASE_HISTORY		
MODEL(S) :- 100KW		
#	DATE	DESCRIPTION OF CHANGE
1	FEB/2000	1.0P DERIVED FROM M517 NEW POTS, XLR
2	MAR//2000	1.0P3 GROUNDS_CHANGED_ADD_47N/250V
3		MOVED QA1-QA3 .125" UP NEW BLANK-SZ
4	APR/2000	1.00 MORE GROUND TRACES ENLARGED
5	FEB/20/02	2.00 NEW PADS FOR TABS PC#6338 REDO_TO
6		SHEAR BEFORE BOARD ASSEMBLY
7	SEP/04/02	2.10 PC#6564_RA4_680R->750R
8	MAR/17/05	3.00 NEW SOLDERMASK
9	sep/26/05	4.00 PC#6842 ADD TARGETS
10	AUG/14/06	4.01 PC#7150, REPLACE C37 AND C38 #5307 WITH
11		. #5223 HAND INSERTED.

M579.PCB_POT_LIST				
MODEL(S) :- 100KW				
	REF	FUNCTION	PART NO	AS OF
P1	GAIN-2		#4417 #8641	FEB/2000
P2	GAIN-1		#4418 #8641	.
P3	BASS		#4420 #8641	.
P4	TREBLE		#4420 #8641	.
R	F		P K	N
R	F		P K	N



STYLE P28

- PRODUCTION NOTES
- 1 .
 - 2 .
 - 3 QA2 IS HAND INSERTED
 - 4 BEND QA2 DOWN INTO ROUTED AREA WITH TOP OF QA2 AGAINST TOP OF ROUTED AREA
 - 5 OUTPUT DEVICES MOUNTED ON #8656 SPACERS
 - 6 WC1 4" BLK 22G WIRE TO POWER SW.
 - 7 WC3 4" BLK 22G WIRE TO POWER SW.
 - 8 WC2 12" GREEN 18G TO CHASSIS GND.
 - 9 WC6 8" GREEN 18G TO WC6A
 - 10 WC10 4" GREEN 22G TO CHASSIS GND.

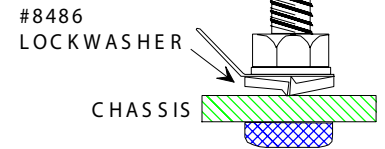
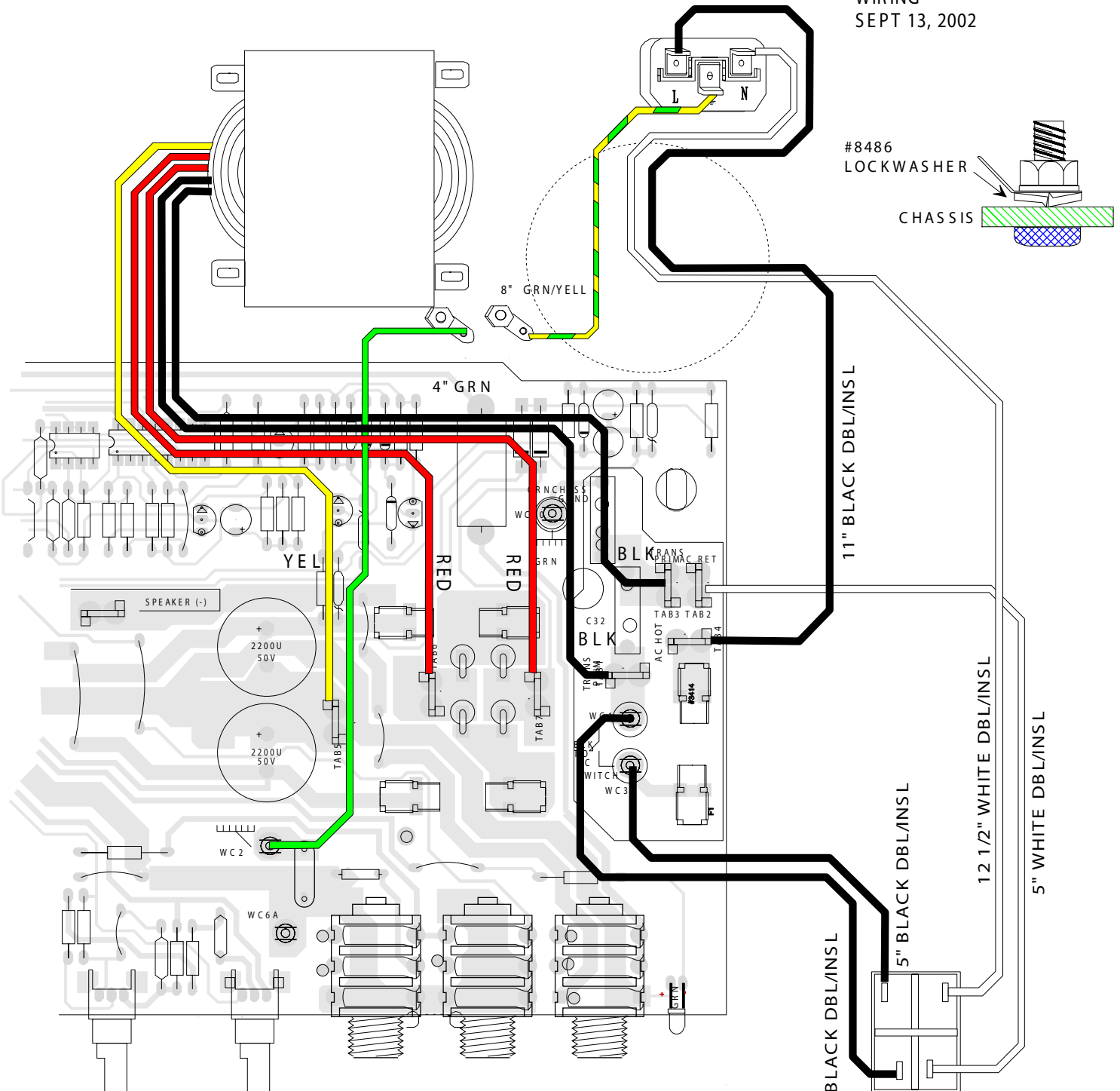


100KW AC WIRING
 SEPT 13, 2002
 VERSION 2.00

5" BLACK DBL/INSL
 5" BLACK DBL/INSL
 PT# 3698
 AC SWITCH

TOP OF CHASSIS

100KWCE
EXPORT AC
WIRING
SEPT 13, 2002



PT# 3702
AC SWITCH
TOP OF CHASSIS

5" BLACK DBL/INSL
11" BLACK DBL/INSL
12 1/2" WHITE DBL/INSL
5" WHITE DBL/INSL