



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

**WORLD HEADQUARTERS
CANADA**

Yorkville Sound
550 Granite Court
Pickering, Ontario
L1W-3Y8 CANADA

Voice: (905) 837-8481
Fax: (905) 837-8746

U.S.A.

Yorkville Sound Inc.
4625 Witmer Industrial Estate
Niagara Falls, New York
14305 USA

Voice: (716) 297-2920
Fax: (716) 297-3689

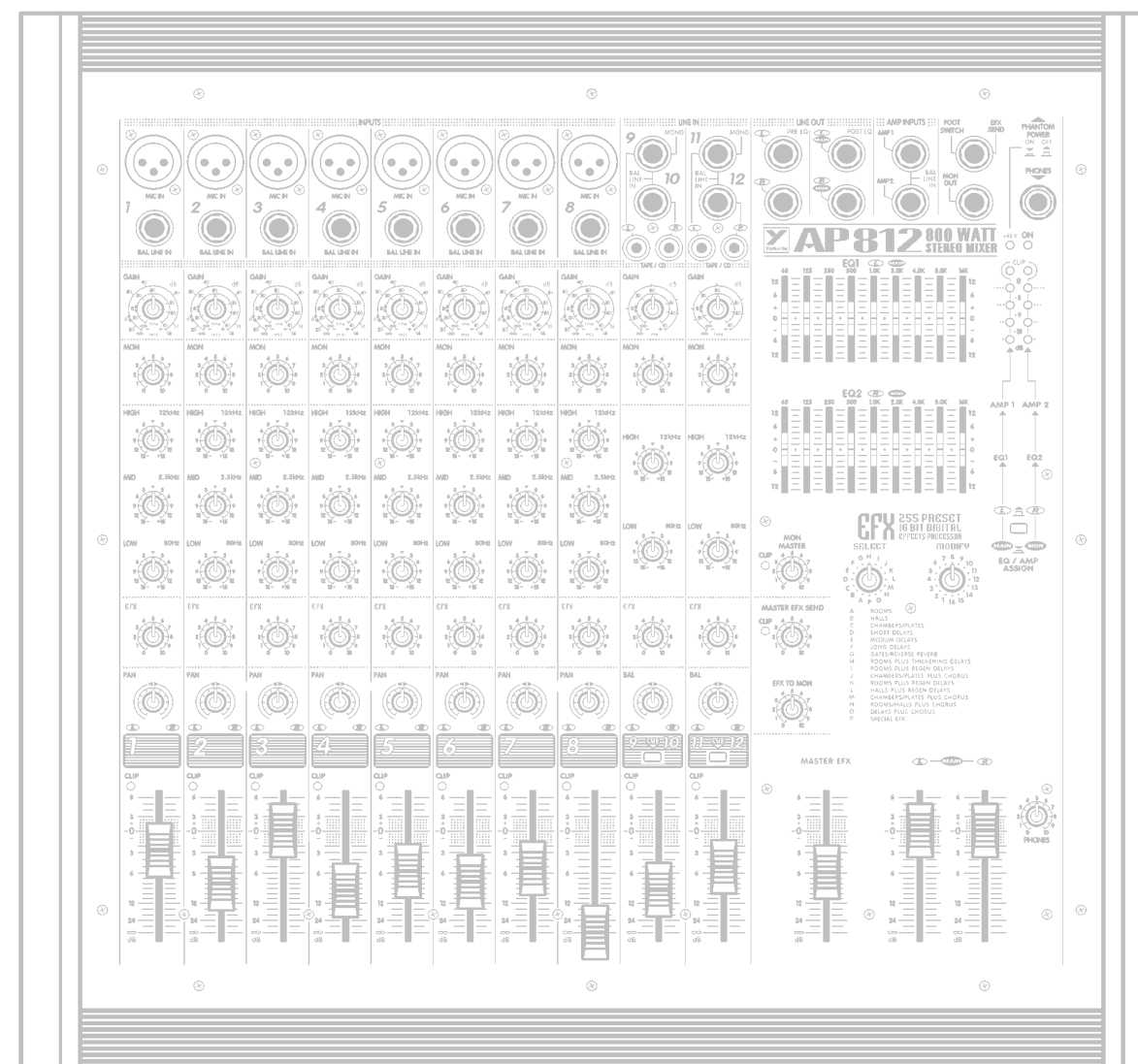


Quality and Innovation Since 1963
Printed in Canada

SERVICE MANUAL



AP812 800 WATT 818 STEREO MIXER



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.

Ensure that proper ventilation is provided around the appliance.

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.

Assurez que l'appareil est fourni de la propre ventilation.

Les dispositifs marqués d'un symbole "d'éclair" sont des parties dangereuses au toucher et que les câblages extérieurs connectés à ces dispositifs de connection 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.

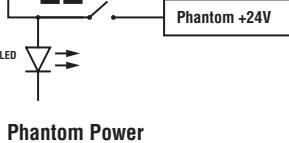
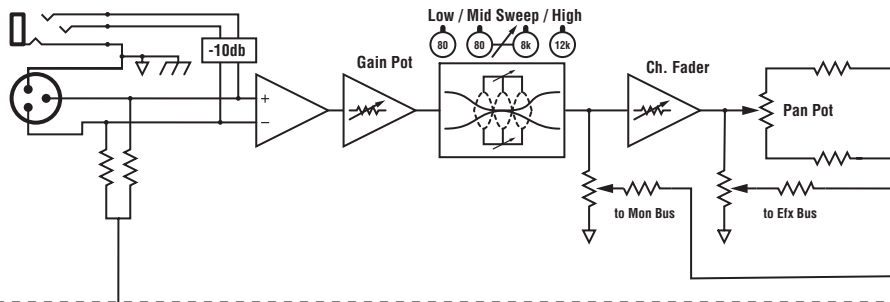
Service

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

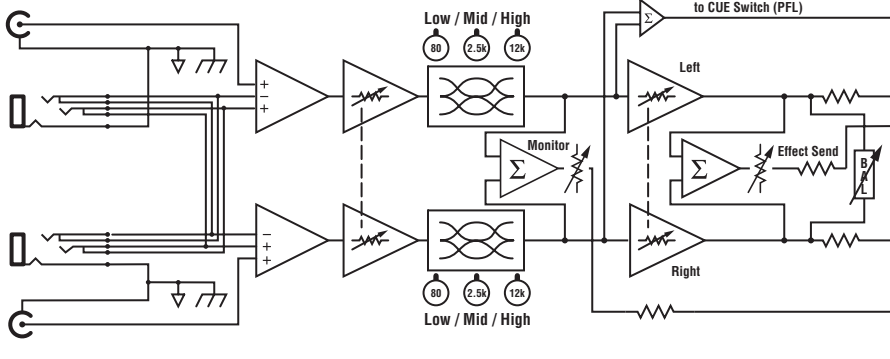
Block Diagram for AP812/818

DESIGNED & MANUFACTURED BY YORKVILLE SOUND

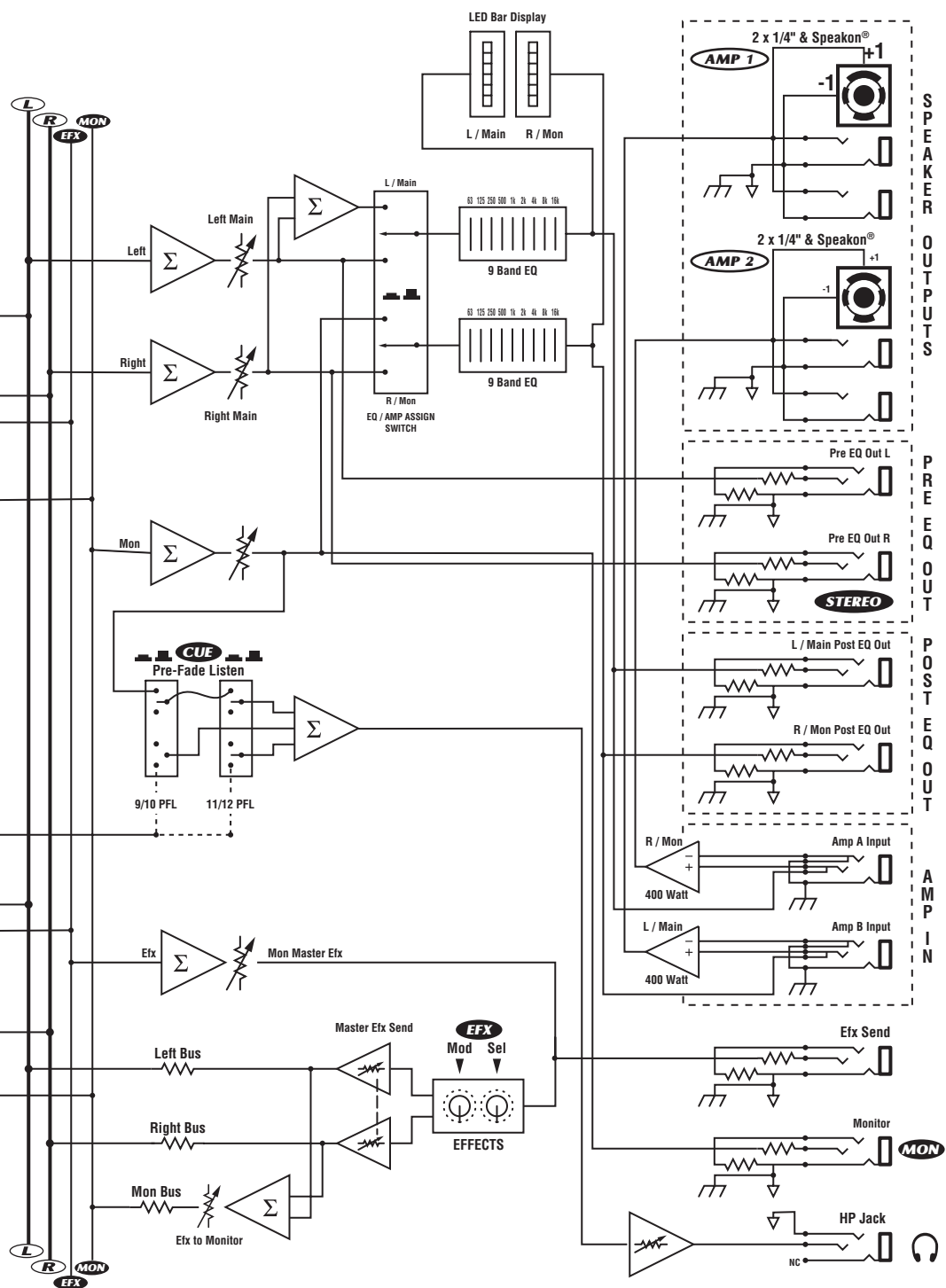
Mono Channel Input Details Channels 1-8(AP812), Channels 1-14(AP818),

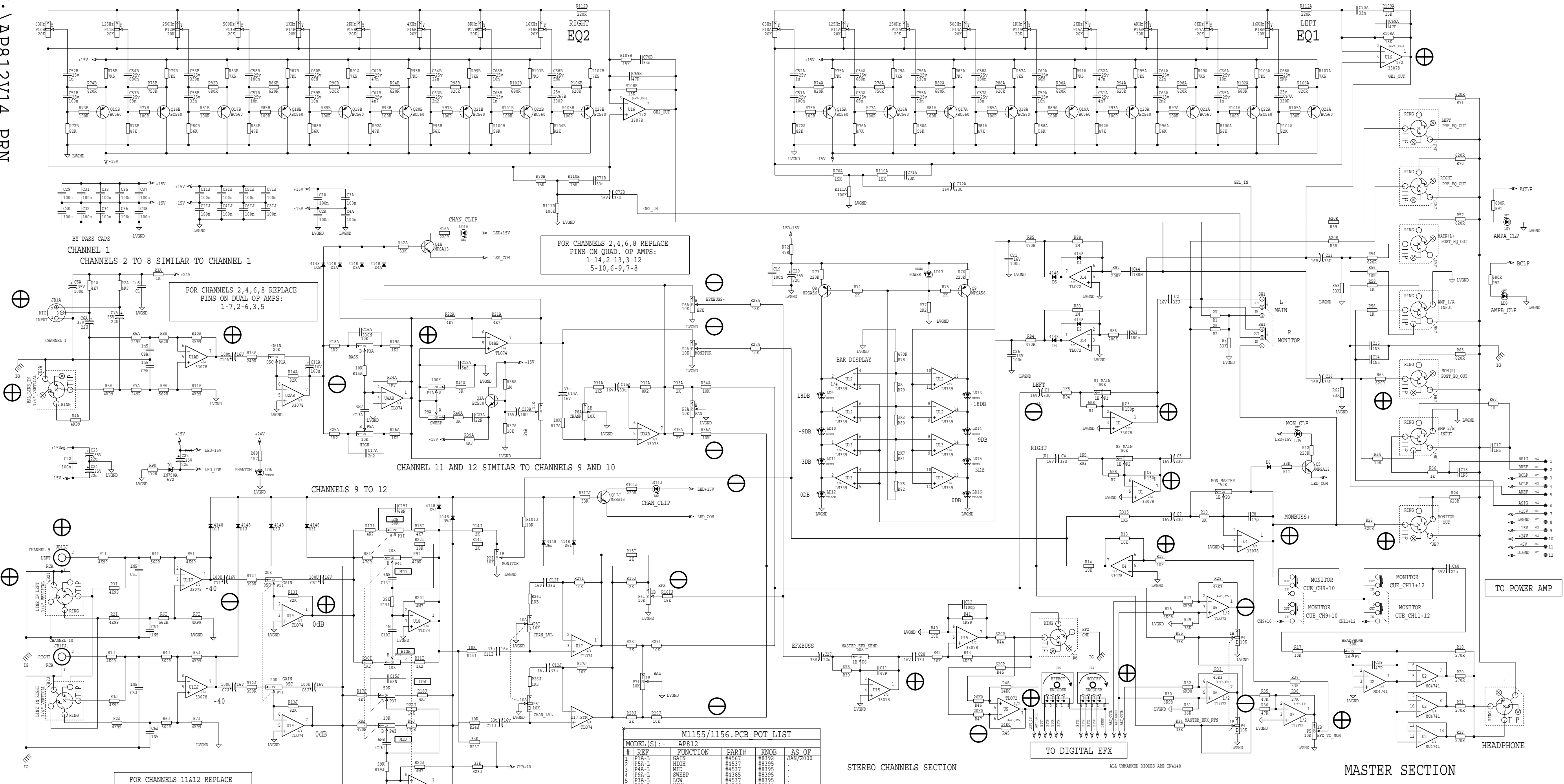


Stereo Channel Input Details Channels 9/10 & 11/12(AP812), 15/16 & 17/18(AP818)



ap812blk.pdf June/99 version 3.5





FOR CHANNELS 2,4,6,8 REPLACE PINS ON QUAD. OP AMPS:
1-14, 2-13, 3-12
5-10, 6-9, 7-8

FOR CHANNELS 2,4,6,8 REPLACE PINS ON DUAL OP AMPS:
1-7, 2-6, 3, 5

FOR CHANNELS 11&12 REPLACE PINS ON QUAD. OP AMPS:
1-14, 2-13, 3-12
5-10, 6-9, 7-8

M1155/1156.PCB POT LIST

MODEL(S) :-	AP812				
#	REF	FUNCTION	PART#	KNOB	AS OF
1	P1A-L	GAIN	#4507	#8392	JAN/2000
2	P5A-L	HIGH	#4537	#8395	
3	P4A-L	MID	#4537	#8395	
4	P9A-L	LOW	#4385	#8395	
5	P3A-L	SWEEP	#4537	#8395	
6	P2A-L	MON1	#4566	#8394	
7	P6A-L	PAN	#4537	#8392	
8	P8A-L	VOLUME	#4584	#8680	
9					
10					
11	P10-P18	EQ	#3996	NO KNOB	
12	P3	MON-MASTER	#4568	#8393	
13	P6	MAS-EFX-SND	#4566	#8393	
14	P5	EFX TO MON	#4566	#8393	
15	P4	EFX RETURN	#4579	#8680	
16	P1	MAIN L	#4581	#8680	
17	P2	MAIN R	#4581	#8680	
18	P7	HEADPHONE	#4568	#8392	
19	P11	SELECT	#4581	#8397	
20	P12	MODIFY	#4581	#8397	

STEREO CHANNELS SECTION

MASTER SECTION

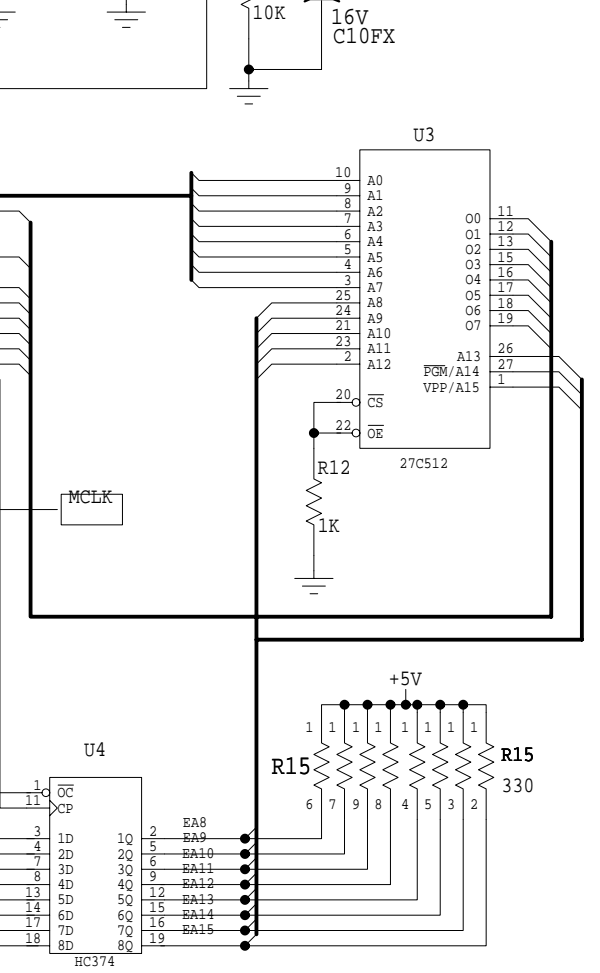
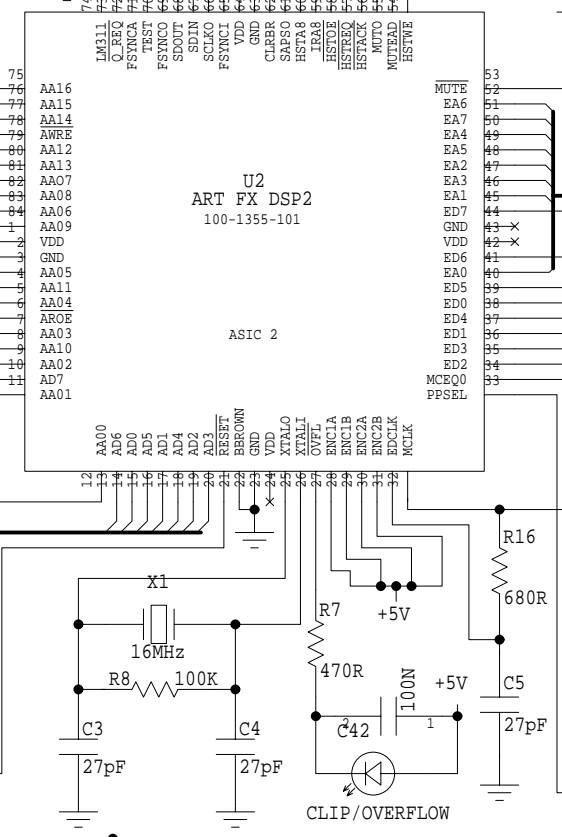
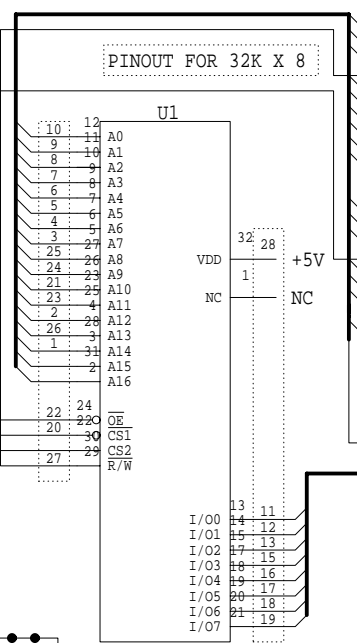
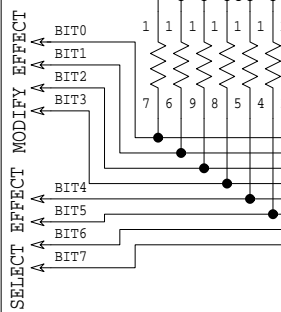
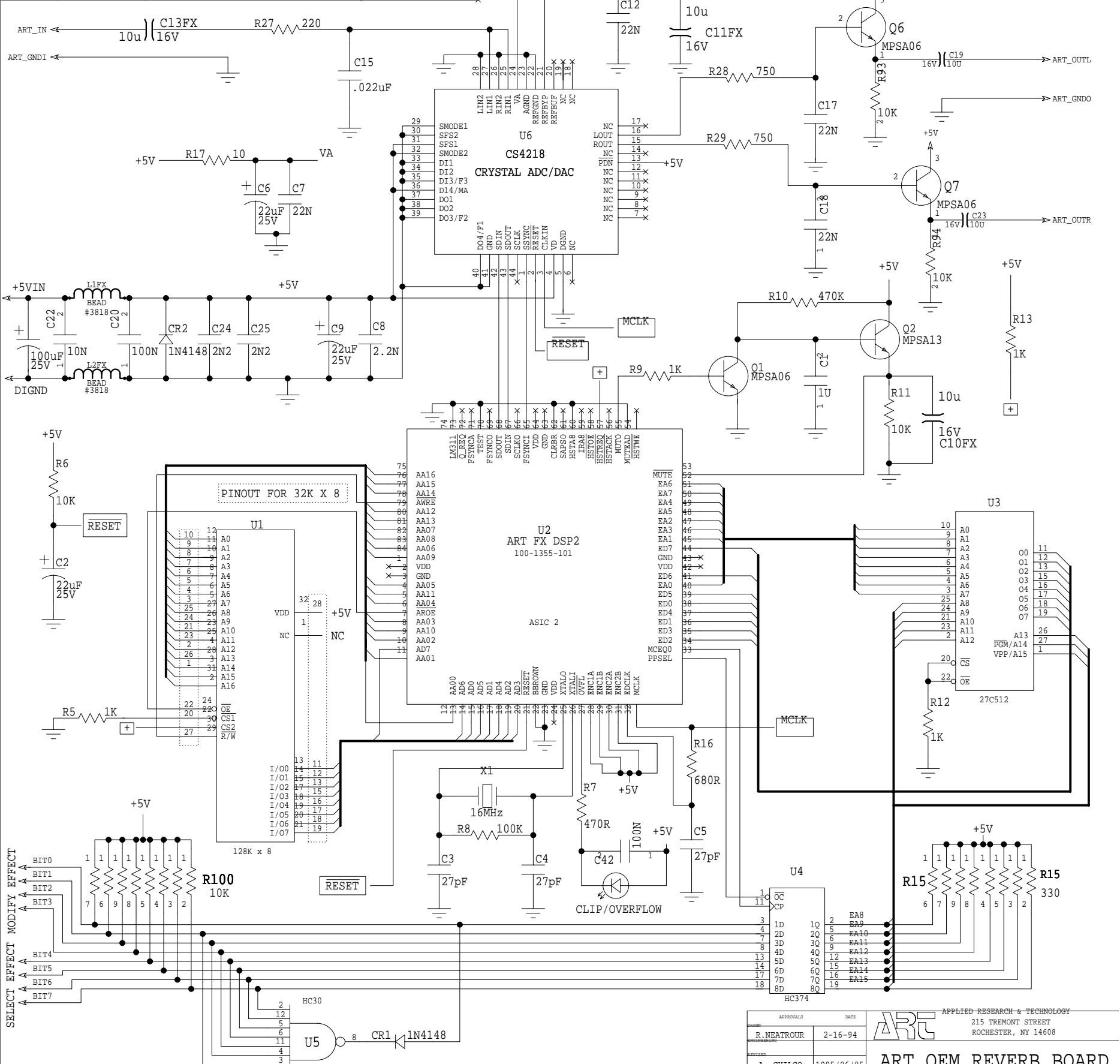
M1155IN.SCH DATABASE HISTORY

MODEL(S) :-	AP-812/818		
#	DATE	VER#	DESCRIPTION OF CHANGE
1	MAY/07/97	1.50	PC#5370 ADD C17A
2	OCT/13/98	1.0	MADE FROM M110
3	FEB/27/01	1.30	CORRECTION RENUMBER R42A-R17A
4	NOV/26/01	1.40	PC#6473 C12A GND->SWG_C23A_47N->22N R40, R41_LK2->3K
5	D	V	N
6	D	V	N
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N


M1156.SCH DATABASE HISTORY

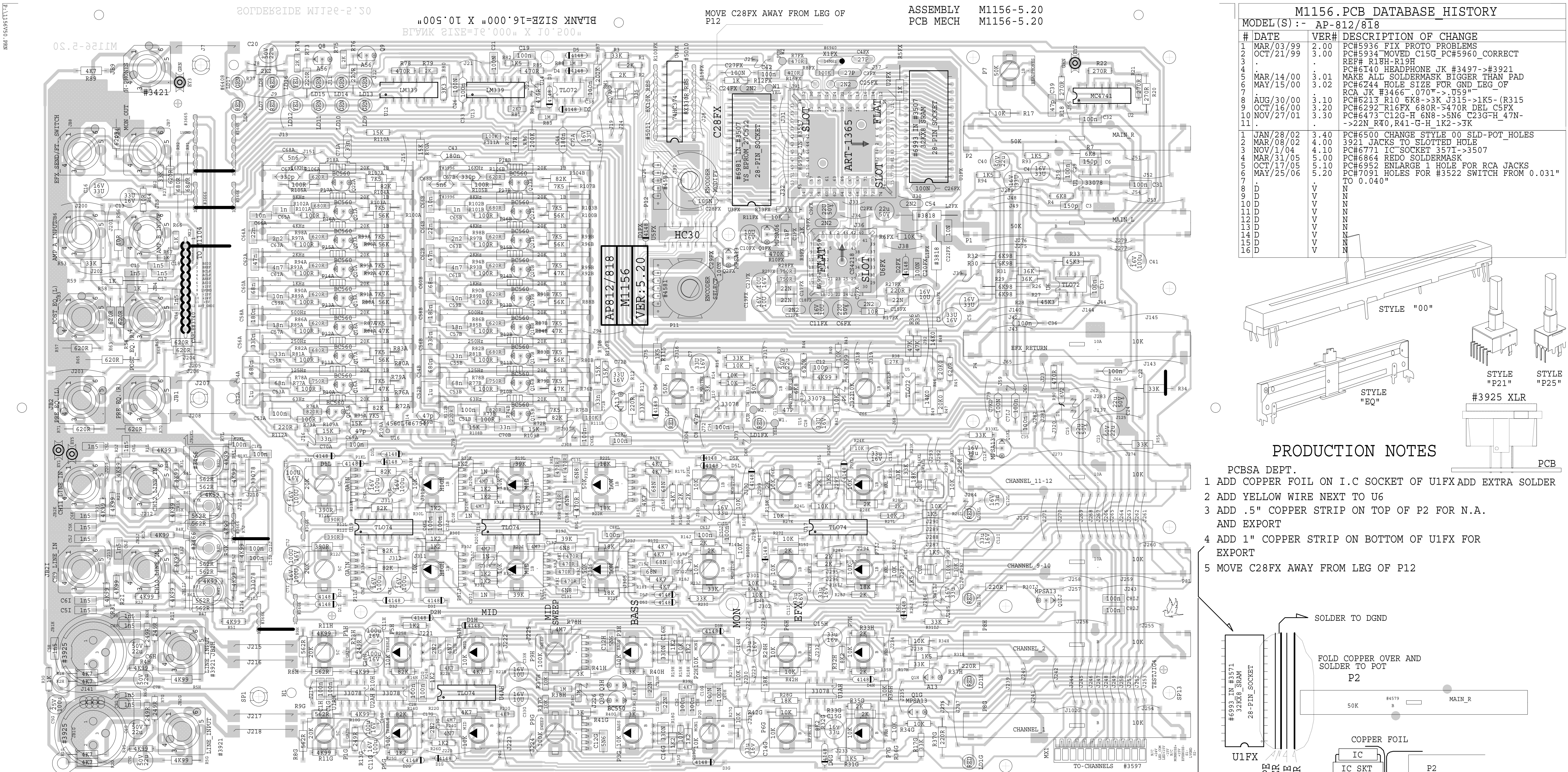
MODEL(S) :-	AP-812/818		
#	DATE	VER#	DESCRIPTION OF CHANGE
1	MAY/07/97	1.50	PC#5370 R211/R21J 18K->47K
2	OCT/13/98	1.0	ADD 150R(R112A,B)_TO EQ
3	FEB/27/01	1.30	MADE FROM M110
4	NOV/26/01	1.40	SWAP CONNECTIONS AT C136C16
5	D	V	N
6	D	V	N
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N

DATE: NOV/26/2001	MODELS: AP-812 AP-818	SCH ISSUED: 1.40
NAME: AP812MIX.SCH	PCB#: M1155-M1156	TITLE: MIXER/RQ



DIGITAL EFFECTS SECTION

APPROVALS		DATE	APPLIED RESEARCH & TECHNOLOGY	
DESIGNED BY	R. NEATROUR	2-16-94	 215 TREMONT STREET ROCHESTER, NY 14608	
DESIGNED BY	A. CHILCO	1995/06/05		
REVISED BY			ART OEM REVERB BOARD	
GROUP DATE				
		12-1-94	SIZE: A QTY: 100	PART NUMBER: M1101-FX SHEET: 4 OF 4



BLANK SIZE=1.000 X .915 ZIS=1.000 X .005

MOVE C28FX AWAY FROM LEG OF P12

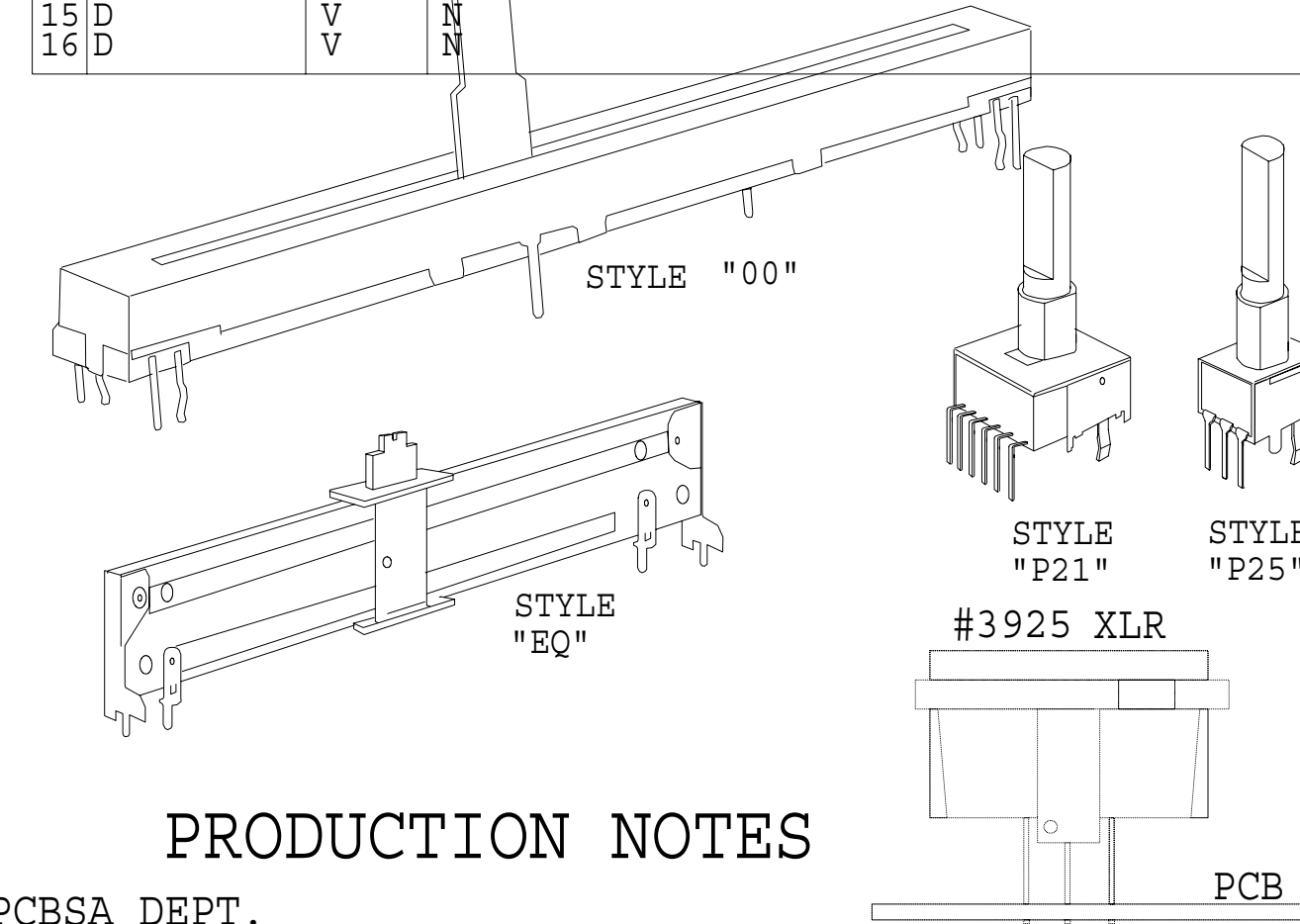
ASSEMBLY PCB MECH M1156-5.20

M1156.PCB DATABASE_HISTORY

MODEL(S) :- AP-812/816

#	DATE	VER#	DESCRIPTION OF CHANGE
1	MAR/03/99	2.00	PC#5936 FIX PROTO PROBLEMS
2	OCT/21/99	3.00	PC#5934 MOVED C15G_PC#5960_CORRECT REF# R18H-R19H
3	MAR/14/00	3.01	PC#6140 HEADPHONE JK #3497->#3921
4	MAY/15/00	3.02	MAKE ALL SOLDERMASK BIGGER THAN PAD PC#6244 HOLE SIZE FOR GND LEG OF RCA JK #3466-.070" > .059"
5	AUG/30/00	3.10	PC#6213 R10 6K8->3K J315->1K5-(R315
6	OCT/16/00	3.20	PC#6292 R16FX 680R->470R DEL C5FX
7	NOV/27/01	3.30	PC#6473 C12G-H 6N8->5N6 C23G-H 47N->22N R40,R41-G-H 1K2->3K
8	JAN/28/02	3.40	PC#6500 CHANGE STYLE 00 SLD-POT HOLES
9	MAR/08/02	4.00	3921 JACKS TO SLOTTED HOLE
10	NOV/1/04	4.10	PC#6771 IC SOCKET 357I->3507
11	MAR/31/04	5.00	PC#6864 REDO SOLDERMASK
12	OCT/17/05	5.10	PC#6952 ENLARGE 1 HOLE FOR RCA JACKS
13	MAY/25/06	5.20	PC#7091 HOLES FOR #3522 SWITCH FROM 0.031" TO 0.040"
14	D	V	N
15	D	V	N
16	D	V	N

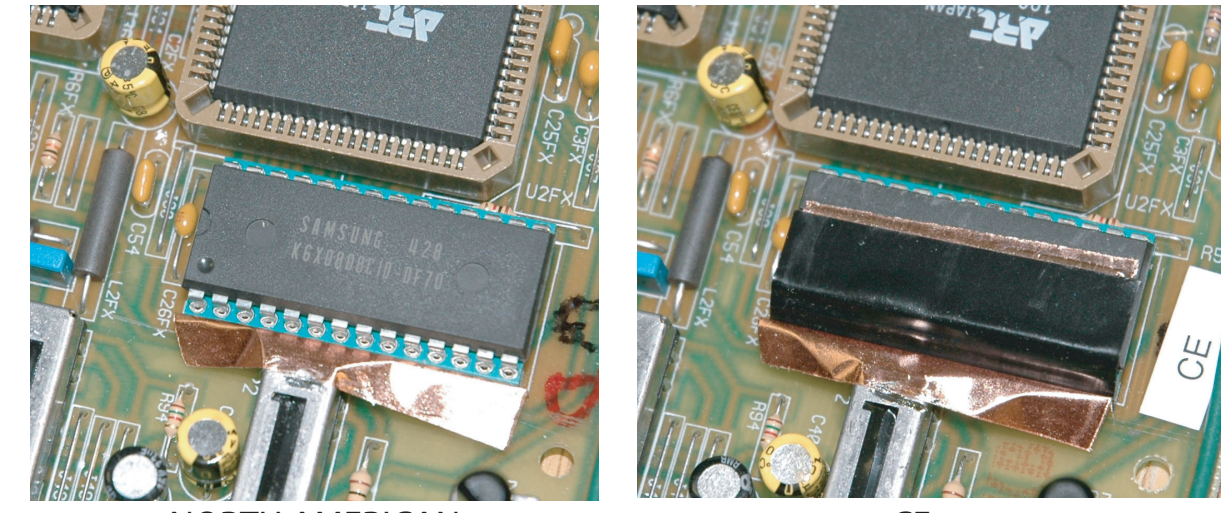
AP812/816
M1156
VER:5-20



PRODUCTION NOTES

- PCBSA DEPT.
- 1 ADD COPPER FOIL ON I.C SOCKET OF U1FX ADD EXTRA SOLDER
 - 2 ADD YELLOW WIRE NEXT TO U6
 - 3 ADD .5" COPPER STRIP ON TOP OF P2 FOR N.A. AND EXPORT
 - 4 ADD 1" COPPER STRIP ON BOTTOM OF U1FX FOR EXPORT
 - 5 MOVE C28FX AWAY FROM LEG OF P12

PRODUCTION NOTE 4:



M1156.PCB POT LIST

MODEL(S) :- AP-812/816

REF	FUNCTION	PART#	KNOB	AS OF
P10A-18A	MAIN-EQ	#3996	N/A	MAY/2001
P10B-18B	MON-EQ	#3996	N/A	-
P1G-P1H	GAIN	#4567	#8392	-
P5G-P5H	TREBLE	#4537	#8395	-
P4G-P4H	MID	#4537	#8395	-
P9G-P9H	SWEEP	#4387	#8395	-
P3G-P3H	BASS	#4537	#8395	-
P2G-P2H	MON1	#4566	#8394	-
P6G-P6H	EFX	#4566	#8397	-
P7G-P7H	PAN(BAL)	#4537	#8392	-
P8G-P9H	FADER	#4489	#8680	-
R	F	P	K	-

M1156.PCB POT LIST

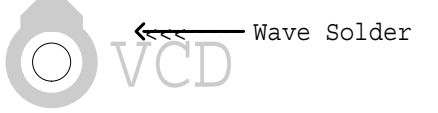
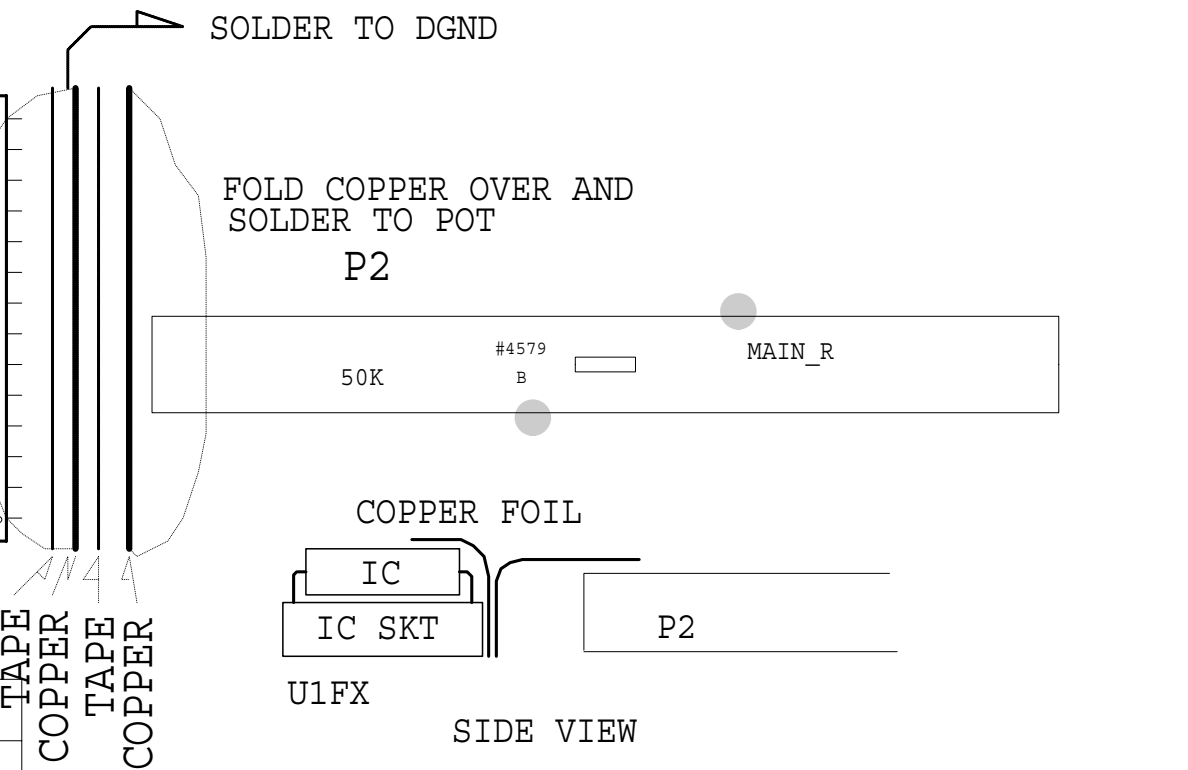
MODEL(S) :- AP-812/816

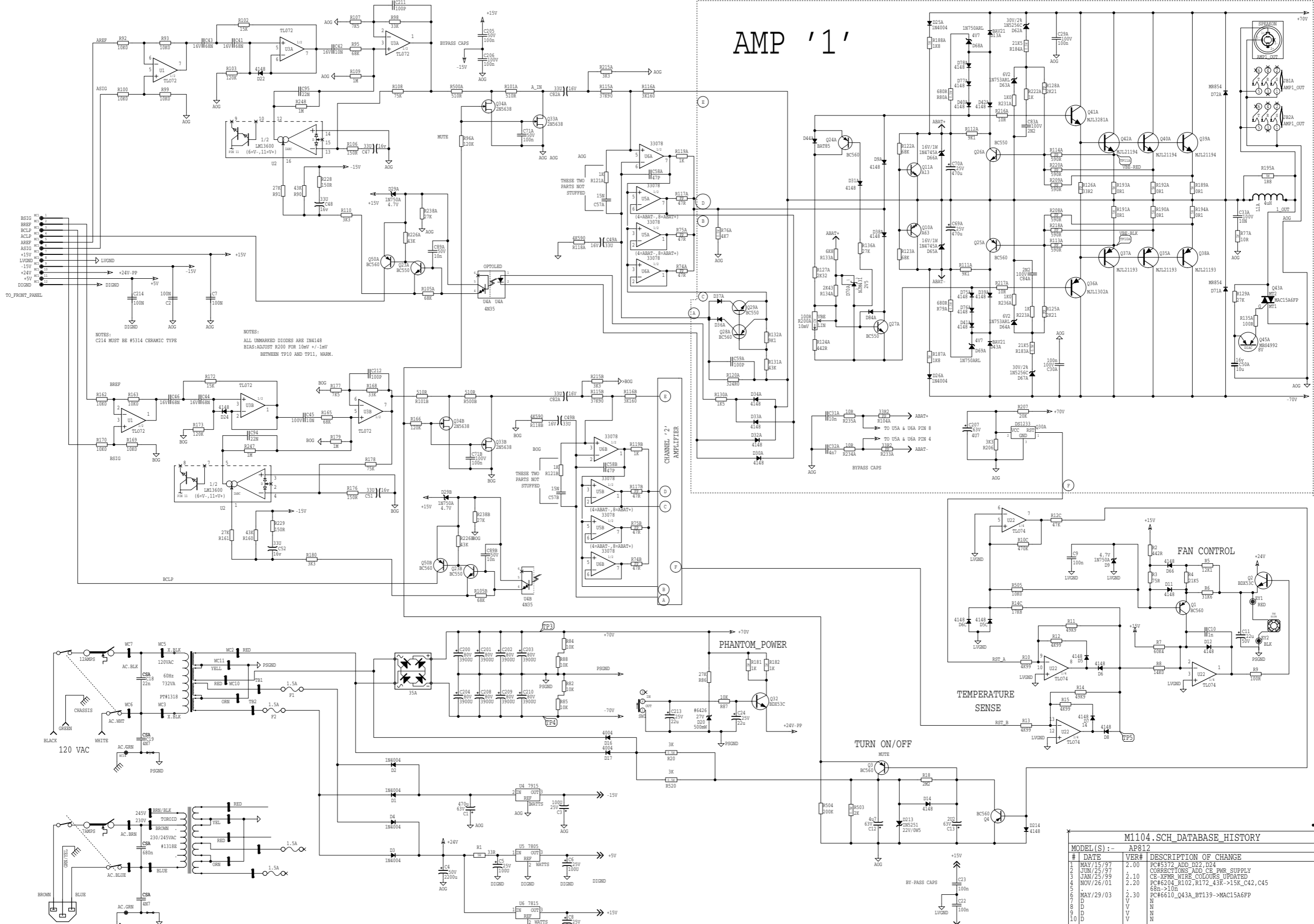
REF	FUNCTION	PART#	KNOB	AS OF
P11J-1KL	GAIN	#4570	#8392	MAY/2001
P51J-5KL	HIGH	#4562	#8395	-
P41J-4KL	MID	#4562	#8395	-
P31J-3KL	LOW	#4545	#8395	-
P21J-2KL	MON	#4566	#8394	-
P61J-6KL	EFX	#4566	#8393	-
F71J-7KL	PAN(BAL)	#4537	#8392	-
P8L-P8R	FADER	#4487	#8660	-
P4	EFX-RTN	#4487	#8660	-
P1-P2	MAIN-L/R	#4488	#8660	-
P11-P12	ENCODER-S/M	#4581	#8397	-
P7	PHONES	#4566	#8392	-

M1156.PCB POT LIST

MODEL(S) :- AP812/816

REF	FUNCTION	PART#	KNOB	AS OF
P3	MON-MASTER	#4568	#8394	MAY/2001
P6	MASTER-EFX	#4568	#8393	-
P5	EFX-TO-MON	#4566	#8393	-
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N



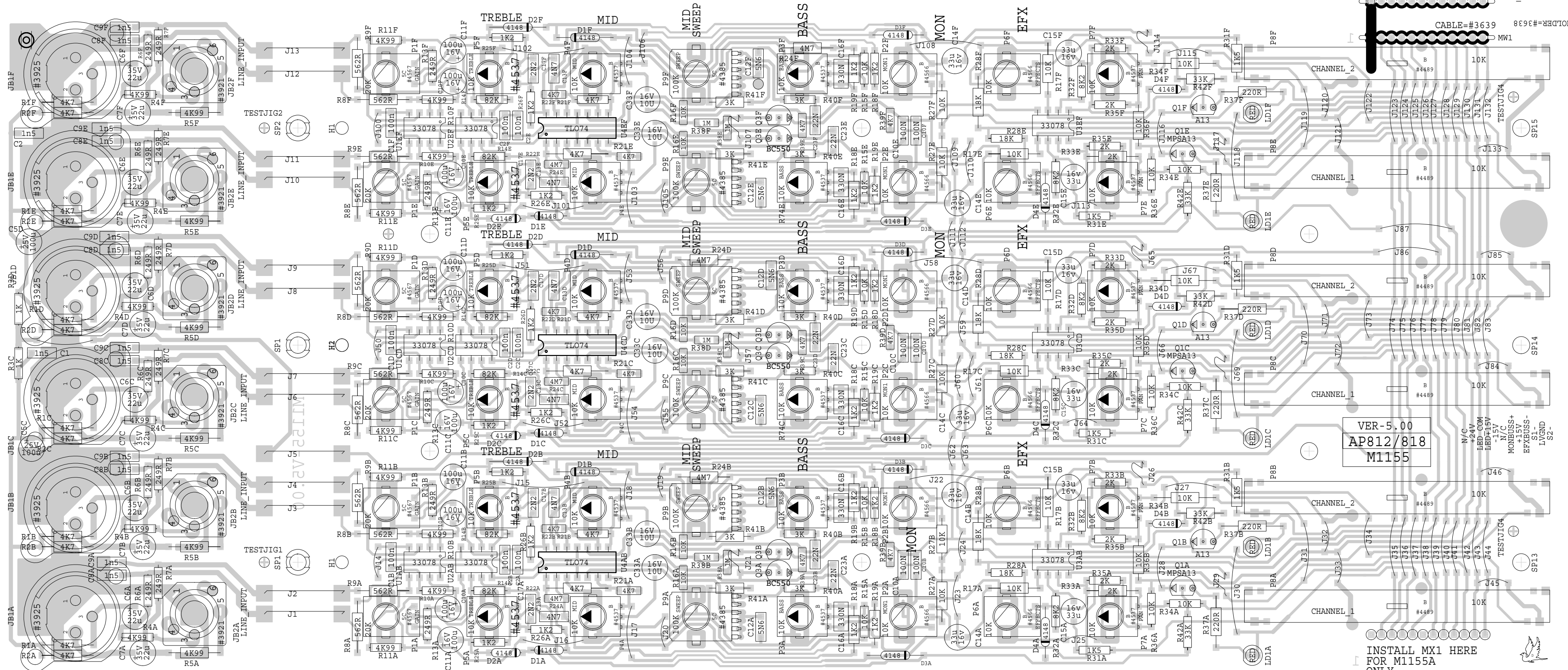


M1104.SCH_DATABASE_HISTORY			
MODEL(S) :- AP812			
#	DATE	VER#	DESCRIPTION OF CHANGE
1	MAY/15/97	2.00	PC#5372 ADD D22,D24
2	JUN/25/97	2.10	CORRECTIONS ADD CE_PWR_SUPPLY
3	JAN/25/99	2.10	CE_XFMR_WIRE_COLOURS_UPDATED
4	NOV/26/01	2.20	PC#6204 R102,R172_43K->15K,C42,C45
5			68H->10n
6	MAY/29/03	2.30	PC#6610_Q43A_BT139->MAC15A6FP
7			V N
8			V N
9			V N
10			V N

BLANK SIZE=16.000" X 7.500"

BLANK SIZE=16.000" X 7.500"

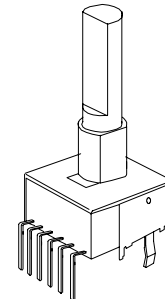
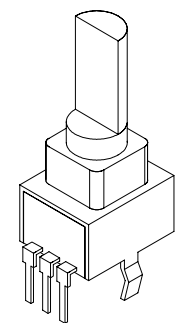
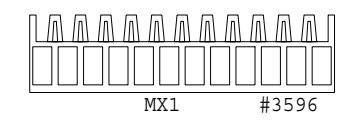
Wave Solder



SOLDSIDE M1155-2.00

PRODUCTION NOTES

- 1 BEND XLR LEGS
- 2 INSTALL MX1 FOR M1155A ONLY



M1155.PCB DATABASE HISTORY			
MODEL(S) :- AP-812/818			
#	DATE	VER#	DESCRIPTION OF CHANGE
1	MAR/03/99	1.00	PC#5935/5937 PROTO PROBLEMS FIXED
2	NOV/25/99	2.00	MOVED TRACES TO ACCOMODATE SIDE
3	D	V	BREAKAWAYS IN FROM EDGE OF PCB
4	MAR/14/00	2.01	MAKE ALL SOLDERMASK BIGGER_THAN_PAD
5	APR/06/00	3.00	FIX MISSING TRACE AT PF2
6	NOV/26/01	3.10	PC#6473 C12A, F 6N8->5N6 C23A-F_47N->22N R40-R41 A-F 1K2->3K
7	.	.	.
8	JAN/28/02	3.20	PC#6500 NEW HOLE SIZE FOR_SLD_POTS
9	APR/18/02	4.00	#3921 JKS TO SLOT
10	MAR/31/05	5.00	PC#6864 REDO SOLDERMASK
11	D	V	N

M1155.PCB POT LIST				
MODEL(S) :- AP812/818				
REF	FUNCTION	PART#	KNOB	AS OF
P1A-P1F	GAIN CONTROL	#4567	#8392	25/11/99
P2A-P2F	MONITOR_1	#4566	#8394	25/11/99
P3A-P3F	BASS CONTROL	#4537	#8395	25/11/99
P4A-P4F	MID TONE	#4537	#8395	25/11/99
P5A-P5F	TREB CONTROL	#4537	#8395	25/11/99
P6A-P6F	EFFECTS	#4566	#8393	25/11/99

M1155.PCB POT LIST				
MODEL(S) :- AP812/818				
REF	FUNCTION	PART#	KNOB	AS OF
P7A-P7F	PAN CONTROL	#4537	#8392	25/11/99
P8A-P8F	GAIN_SLIDER	#4584	#8680	25/11/99
P9A-P9F	MID_SWEEP	#4385	#8395	25/11/99
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N

INSTALL MX1 HERE FOR M1155A ONLY

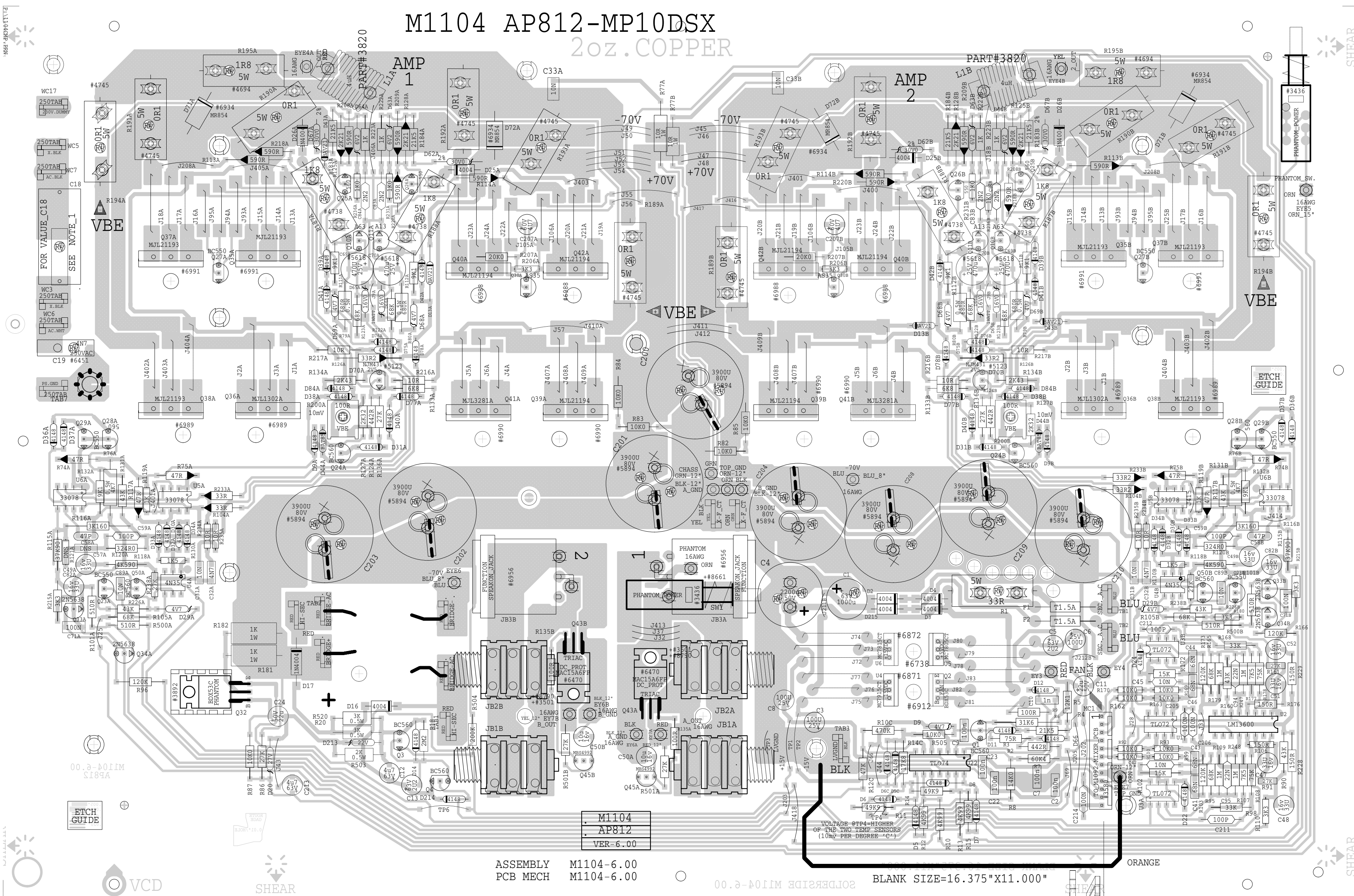
VER-5.00
AP812/818
M1155

N/C
LED-COM
LED-15V
LED-5V
MONTEUSS+
EFXBUSS-
S1-
LVGND
S2-



M1104 AP812-MP10DSX

2oz.COPPER



M1104
AP812
VER-6.00

ASSEMBLY M1104-6.00
PCB MECH M1104-6.00

BLANK SIZE=16.375"X11.000"

PRODUCTION NOTES

- 1 C18 FOR NORTH AMERICAN IS 22N PT#6435
C18 FOR EXPORT (CE,S,E) IS 680N PT#5266
- 2 Q32 MOUNTING HARDWARE #8861 #3692
#3501 #392
#8701 Q32 HEATSINK
- 3

12_PIN
MOLEX

M1104.PCB_DATABASE_HISTORY

#	DATE	VER#	DESCRIPTION OF CHANGE
1	MAR/25/97	1.00	FIRST PRODUCTION
2	MAY/15/97	2.00	PC#5372 ADD DIODES D22,D24 L1A/B 3759->3820
3	FEB/12/98	2.10	CHANGED ROUTING AT VBE TRANSISTORS
4	FEB/16/98	2.11	REVERSED ROUTING AT LAST VBE_TRANSISTOR
5	FEB/27/98	3.00	PC#5622 C214 RADIAL->AXIAL
6	JUN/08/98	3.10	PC#5713 TP4TO RADIAL JUMPER
7	MAR/25/99	3.20	PC#5951 C1 470u->1000u
8	MAR/30/00	3.30	PC#6212 GRND WIRE ADDED TAB3
9	JAN/07/02	4.00	PC#6204 R102/R172 43K->15K,C42/C45 68N->10N
10			PC#6282 NEW BRIDGE MOUNTING
11	JAN/22/02	5.00	NEW PADS FOR TABS
12	MAY/29/03	5.10	PC#6610 Q43A/B BT139->MAC15A6FP
13	MAR/31/05	6.00	PC#6864 REDO SOLDERMASK



Yorkville Sound
550 Granite Court
Pickering, Ontario
Canada L1W 3Y8

Phone: (905)837-8550 Ext.218

Fax: (905)839-5776

Email: pmourtos@yorkville.com

www.yorkville.com

SERVICE BULLETIN

Date : March 6, 2000

Re : AP812/AP818 GROUND HUM UPDATE

Dear Staff & Dealers,

Due to some feedback from our customers a service issue regarding hum problems have been discovered with the **AP812** and **AP818** mixer/s. Please be advised that units in production after March 2000 will **NOT** have this problem.

The **HUM** problem only occurs when the main in/out jacks are used (i.e. if a processor is used). There is considerable hum at the MONITOR OUT jack as well.

To solve these problems follow the directions listed below...

Required Modification:

1. Seperate Top & Bottom

2. Find where the **Orange & Green** Wires are soldered to eyelets, pretty well in the center of the board (marked with an **Orange & Green X** on the layout provided).

CUT the **Orange & Green** Wires as close to the **EYELETS** as possible (on the filter capacitor side). (as shown circled in **RED**)

3. Solder both wires (that you've just cut) to TAB 3 (as shown circled in **GREEN**)

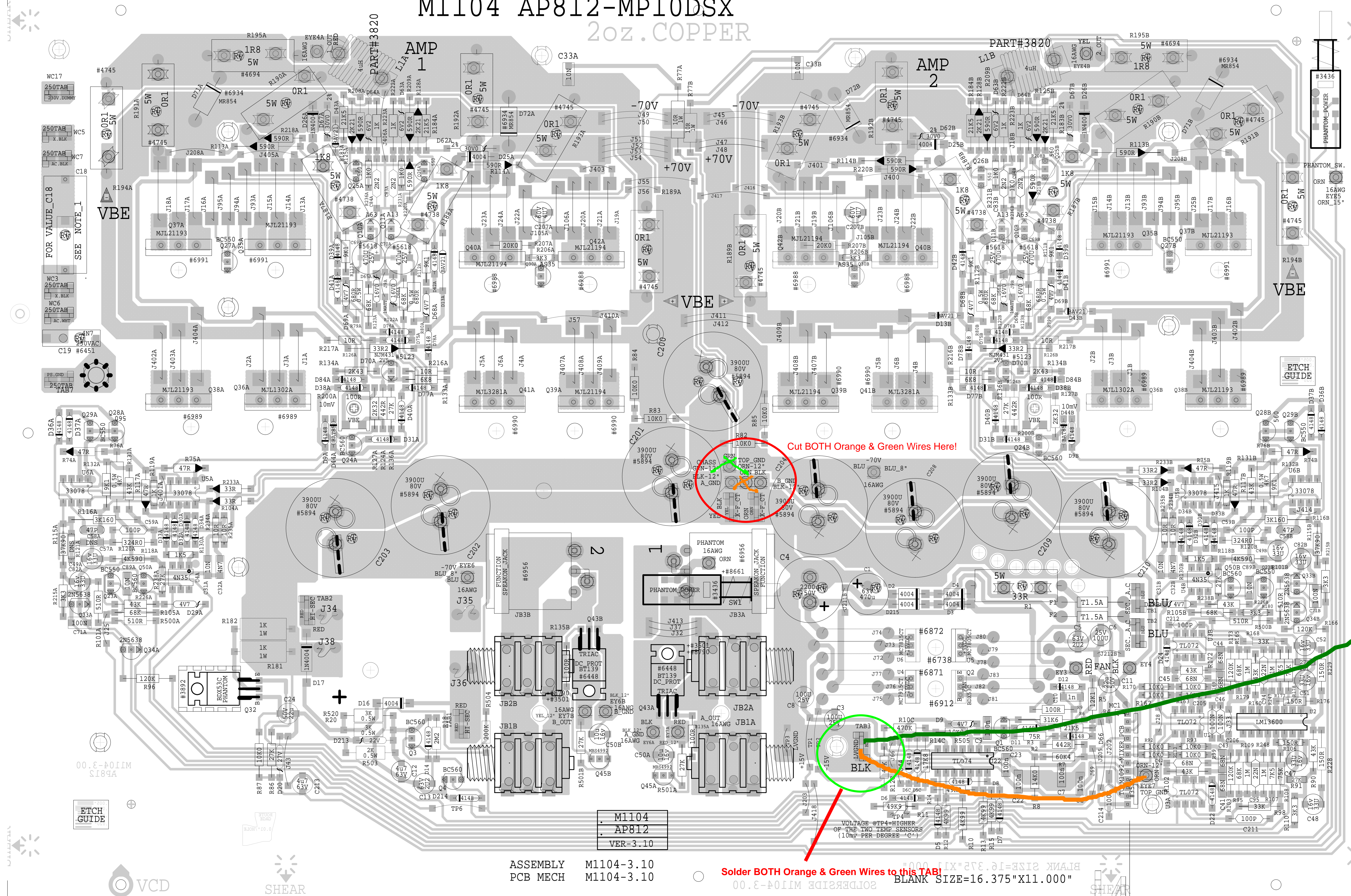
4. Don't forget to re-connect the **Green** Wire (female spade) to the Top Mixer (male spade lug)

We are sorry for any inconvenience caused as a result of this problem. For further technical information or assistance please contact **Peter Mourtos** at **Yorkville Sound** via phone at (905) 837-8550 Ext. 218 or via email at **pmourtos@yorkville.com** .

Enclosed - the Layout for the **AP812/818** M1104 Power Amplifier board with instructions.

M1104 AP812-MP10DSX

2oz .COPPER



Don't forget to connect back to TOP (Mixer)

AP812/AP818 GROUND HUM UPDATE

- 1) Separate Top & Bottom
- 2) Find where the Orange & Green Wires are soldered to eyelets, pretty well in the center of the board (marked with an Orange & Green X).
- CUT the Orange & Green Wires as close to the EYELETS as possible (on the filter capacitor side). (as shown circled in RED)
- 3) Solder both wires (that you've just cut) to TAB 3 (as shown circled in GREEN)
- 4) Don't forget to re-connect the Green Wire (female spade) to the Top Mixer (male spade lug)

M1104
AP812
VER-3.10

ASSEMBLY M1104-3.10
PCB MECH M1104-3.10

PRODUCTION NOTES

- 1 C18 FOR NORTH AMERICAN IS 22N PT#6435
C18 FOR EXPORT (CE,S,E) IS 680N PT#5266
- 2 Q32 MOUNTING HARDWARE #8861 #3692
#3501 HEATSINK
#8701 Q32
- 3

M1104.PCB_DATABASE_HISTORY			
#	DATE	VER#	DESCRIPTION OF CHANGE
1	MAR/25/97	1.00	FIRST PRODUCTION
2	MAY/15/97	2.00	PC#5372 ADD DIODES D22,D24 L1A/B #3759->#3820
3			
4	FEB/12/98	2.10	CHANGED ROUTING AT VBE_XTR'S
5	FEB/16/98	2.11	REVERSED ROUTING AT LAST VBE_XTR
6	FEB/27/98	3.00	PC#5622 C214 RADIAL->AXIAL
7	JUN/08/98	3.10	PC#5713 TP4 TO RADIAL JUMPER
8	MAR/25/99	V	PC#5951 c1 -420u to 1000u/35V PT#5635
9	D	N	
10	D	N	
11	D	N	

12_PIN MOLEX