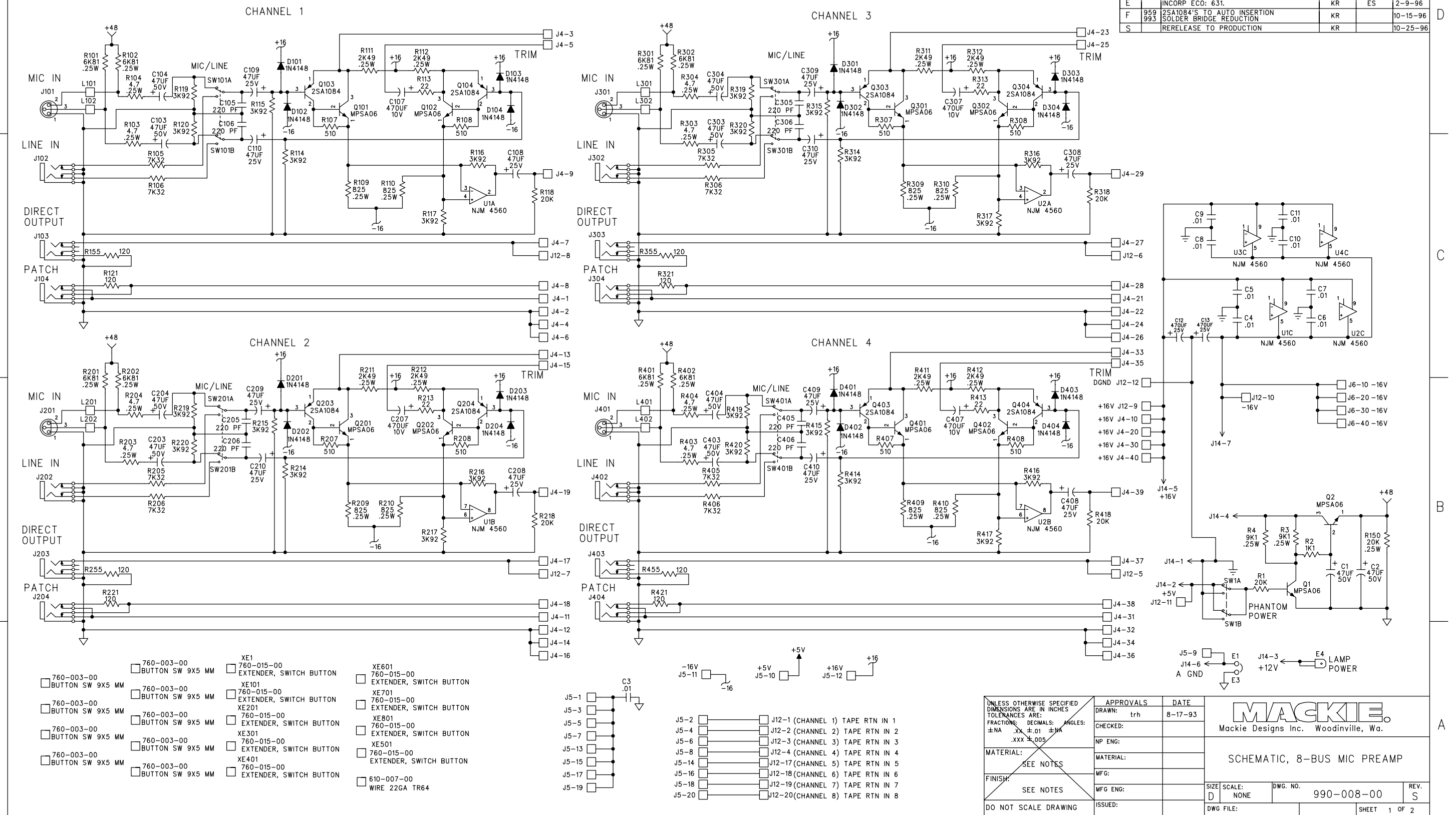
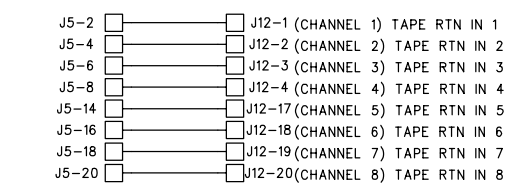


REV:	ECO#	DESCRIPTION	REV. BY:	APP. BY:	DATE
C		PHASE 1 AND ADDED GND TO LINE JACKS INCORP ECO 145,158,180	TRH	JGG	4-12-94
D		INCORP ECO'S: 215,307,314,367,370, 431,469,567,623,657,769.	KR		10-13-95
E		INCORP ECO: 631.	KR	ES	2-9-96
F	959 993	2SA1084'S TO AUTO INSERTION SOLDER BRIDGE REDUCTION	KR		10-15-96
S		RERELEASE TO PRODUCTION	KR		10-25-96



- 760-003-00 BUTTON SW 9X5 MM
- 760-003-00 BUTTON SW 9X5 MM
- 760-003-00 BUTTON SW 9X5 MM
- 760-003-00 BUTTON SW 9X5 MM
- 760-003-00 BUTTON SW 9X5 MM
- 760-003-00 BUTTON SW 9X5 MM
- 760-003-00 BUTTON SW 9X5 MM
- 760-003-00 BUTTON SW 9X5 MM
- 760-003-00 BUTTON SW 9X5 MM
- 760-015-00 EXTENDER, SWITCH BUTTON
- 760-015-00 EXTENDER, SWITCH BUTTON
- 760-015-00 EXTENDER, SWITCH BUTTON
- 760-015-00 EXTENDER, SWITCH BUTTON
- 760-015-00 EXTENDER, SWITCH BUTTON
- 760-015-00 EXTENDER, SWITCH BUTTON
- 760-015-00 EXTENDER, SWITCH BUTTON
- 760-015-00 EXTENDER, SWITCH BUTTON
- 610-007-00 WIRE 22GA TR64

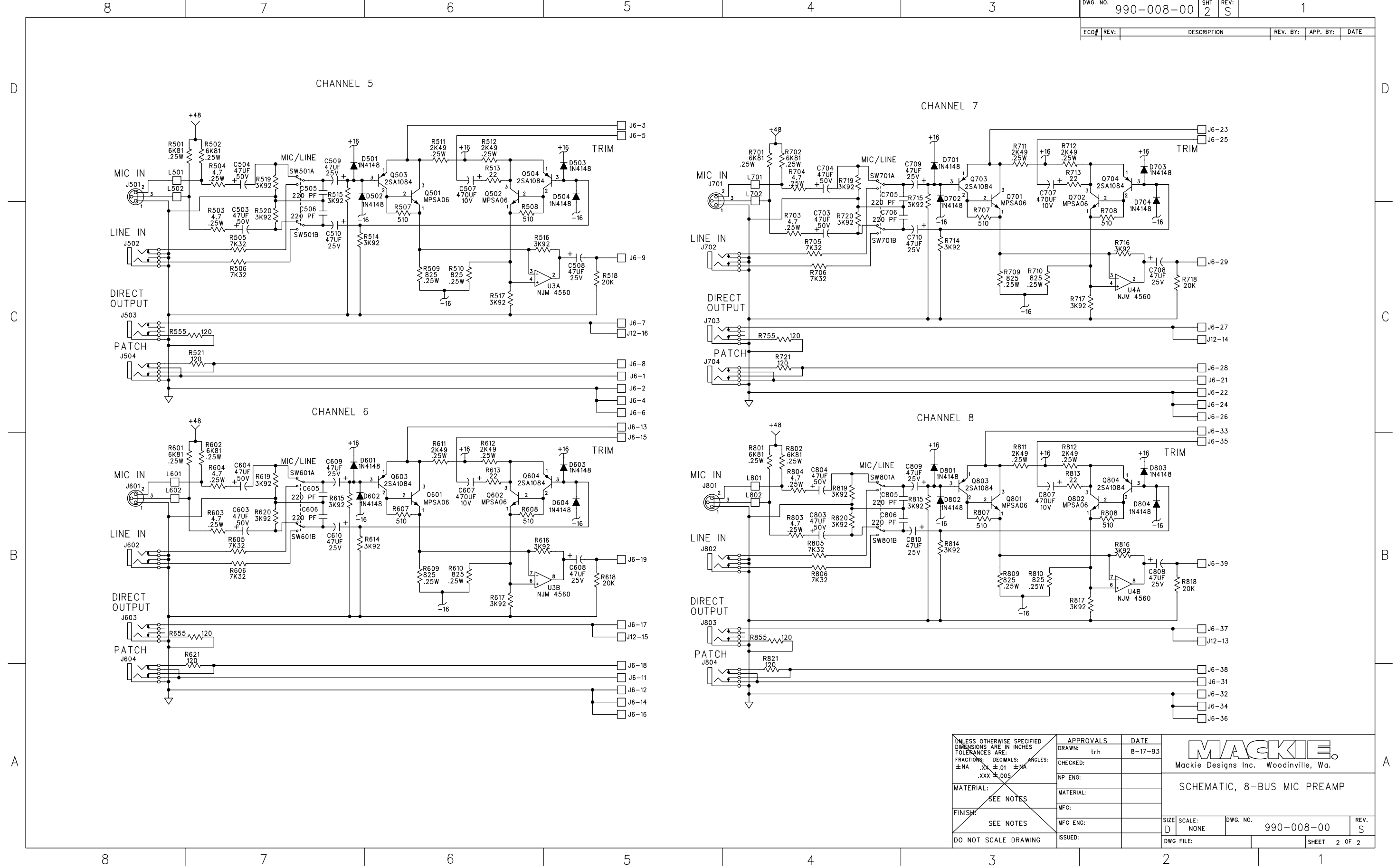


UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:	APPROVALS	DATE
	FRACTIONS: DECIMALS: ANGLES: ±.NA .XX ±.01 ±.NA .XXX ±.005	trh
MATERIAL:	CHECKED:	
FINISH:	NP ENG:	
DO NOT SCALE DRAWING	MATERIAL:	
	MFG:	
	MFG ENG:	
	ISSUED:	

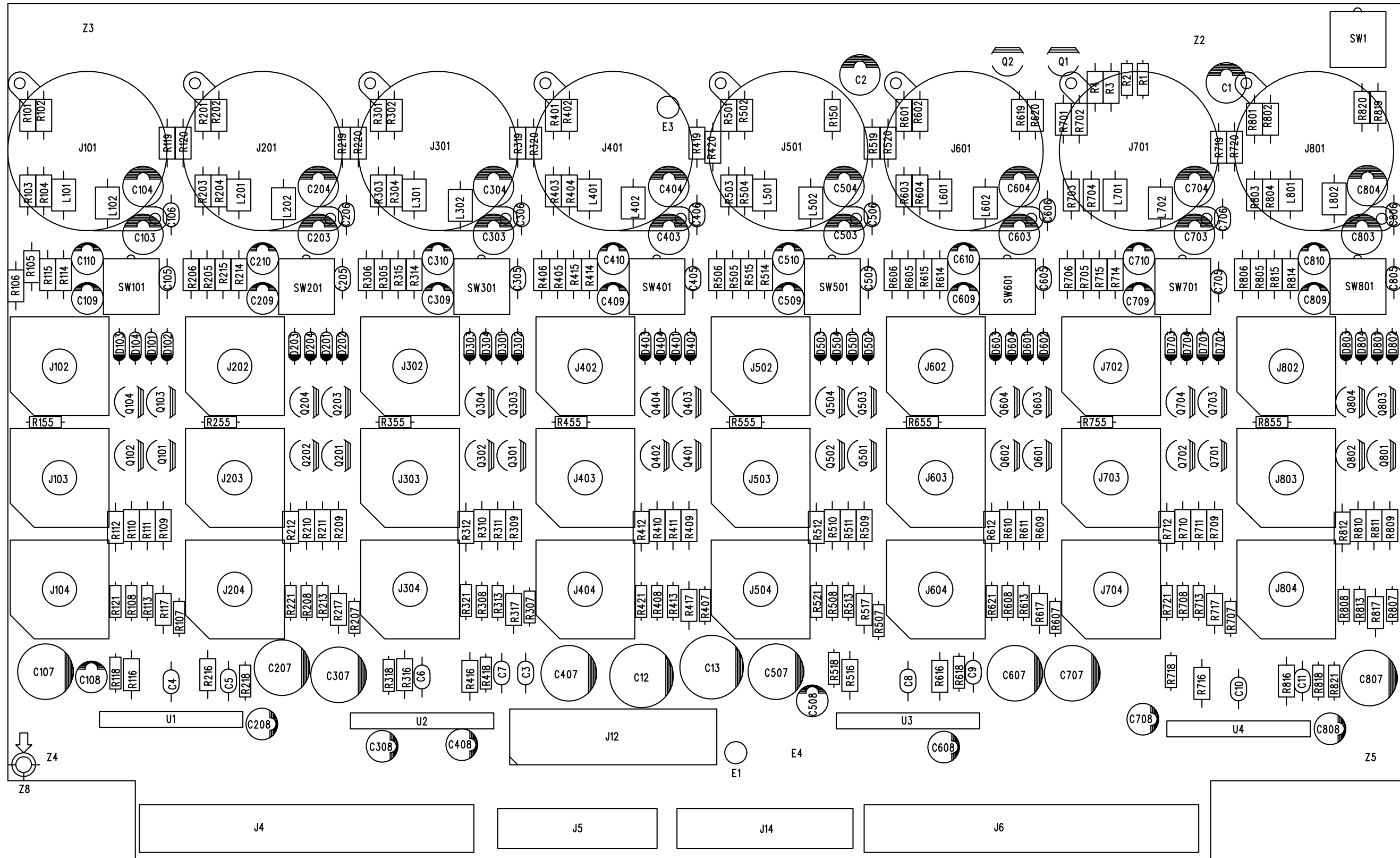
MACKIE
Mackie Designs Inc. Woodinville, Wa.

SCHEMATIC, 8-BUS MIC PREAMP

SIZE	SCALE:	DWG. NO.	REV.
D	NONE	990-008-00	S
DWG FILE:			SHEET 1 OF 2



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ±NA .XX ±.01 ±NA .XXX ±.005	APPROVALS	DATE	<p>Mackie Designs Inc. Woodinville, Wa.</p> <p>SCHEMATIC, 8-BUS MIC PREAMP</p>
	DRAWN: trh	8-17-93	
	CHECKED:		
	NP ENG:		
MATERIAL:	MATERIAL:		SIZE SCALE: DWG. NO. REV. D NONE 990-008-00 S
SEE NOTES	MFG:		
FINISH:	MFG ENG:		DWG FILE: SHEET 2 OF 2
SEE NOTES	ISSUED:		
DO NOT SCALE DRAWING			



J4

CHANNEL 1 INS RTN	1	2	CHANNEL 1 GND
CHANNEL 1 TRIM	3	4	CHANNEL 1 GND
CHANNEL 1 TRIM	5	6	CHANNEL 1 GND
CHANNEL 1 DI OUT	7	8	CHANNEL 1 INS SEND
CHANNEL 1 PRE OUT	9	10	+16V
CHANNEL 2 INS RTN	11	12	CHANNEL 2 GND
CHANNEL 2 TRIM	13	14	CHANNEL 2 GND
CHANNEL 2 TRIM	15	16	CHANNEL 2 GND
CHANNEL 2 DI OUT	17	18	CHANNEL 2 INS SEND
CHANNEL 2 PRE OUT	19	20	+16V
CHANNEL 3 INS RTN	21	22	CHANNEL 3 GND
CHANNEL 3 TRIM	23	24	CHANNEL 3 GND
CHANNEL 3 TRIM	25	26	CHANNEL 3 GND
CHANNEL 3 DI OUT	27	28	CHANNEL 3 INS SEND
CHANNEL 3 PRE OUT	29	30	+16V
CHANNEL 4 INS RTN	31	32	CHANNEL 4 GND
CHANNEL 4 TRIM	33	34	CHANNEL 4 GND
CHANNEL 4 TRIM	35	36	CHANNEL 4 GND
CHANNEL 4 DI OUT	37	38	CHANNEL 4 INS SEND
CHANNEL 4 PRE OUT	39	40	+16V

J5

N/C	1	2	TAPE RTN 1
N/C	3	4	TAPE RTN 2
N/C	5	6	TAPE RTN 3
N/C	7	8	TAPE RTN 4
DGND	9	10	+5V
-16V	11	12	+16V
N/C	13	14	TAPE RTN 5
N/C	15	16	TAPE RTN 6
N/C	17	18	TAPE RTN 7
N/C	19	20	TAPE RTN 8

J12

TAPE 1	1	2	TAPE 2
TAPE 3	3	4	TAPE 4
CHANNEL 4	5	6	CHANNEL 3
CHANNEL 2	7	8	CHANNEL 1
+16V	9	10	-16V
+5V	11	12	DGND
CHANNEL 8	13	14	CHANNEL 7
CHANNEL 6	15	16	CHANNEL 5
TAPE 6	17	18	TAPE 6
TAPE 7	19	20	TAPE 8

J14

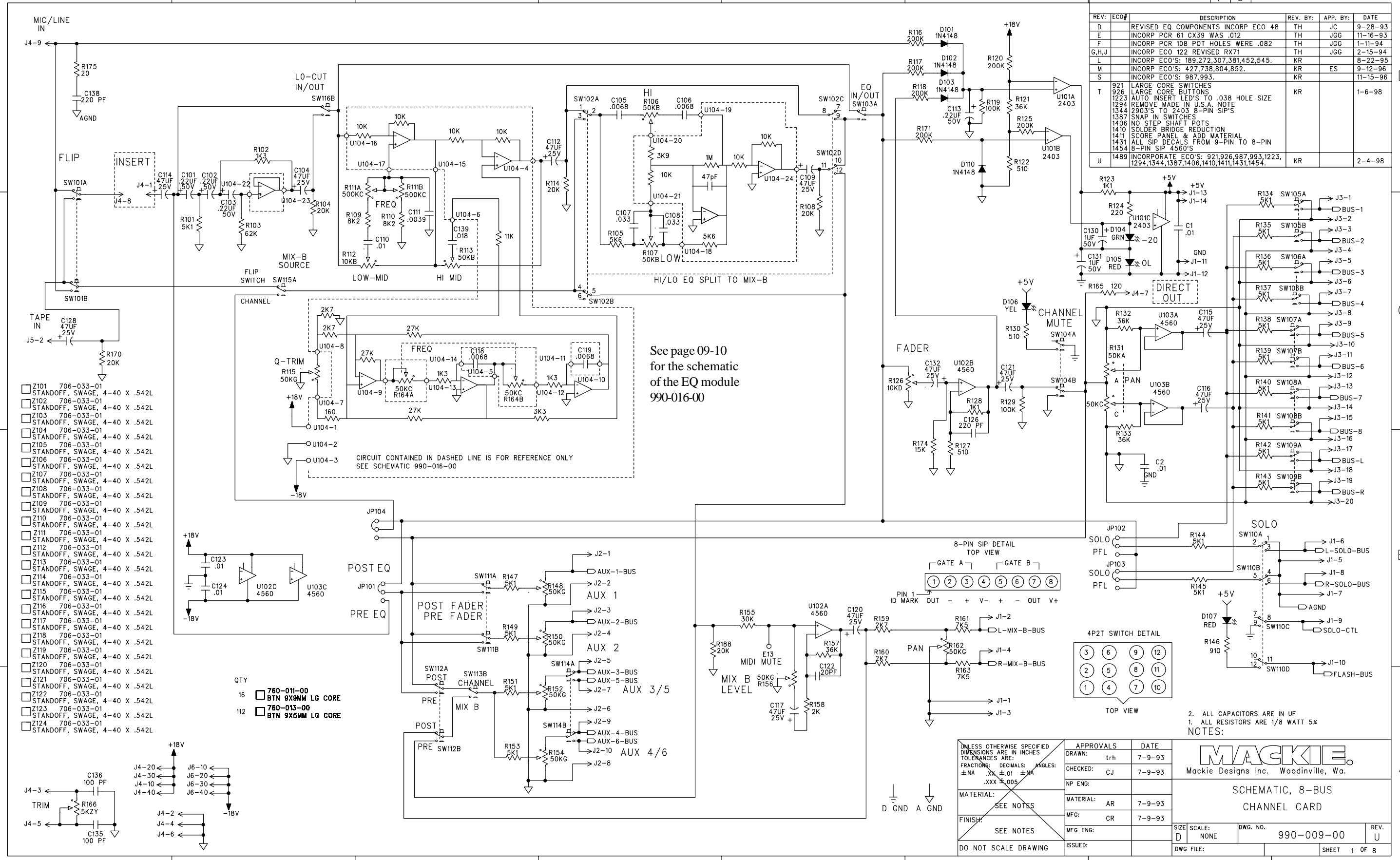
-18V	7
AGND	6
+18V	5
+48V	4
+12V	3
+5V	2
DGND	1

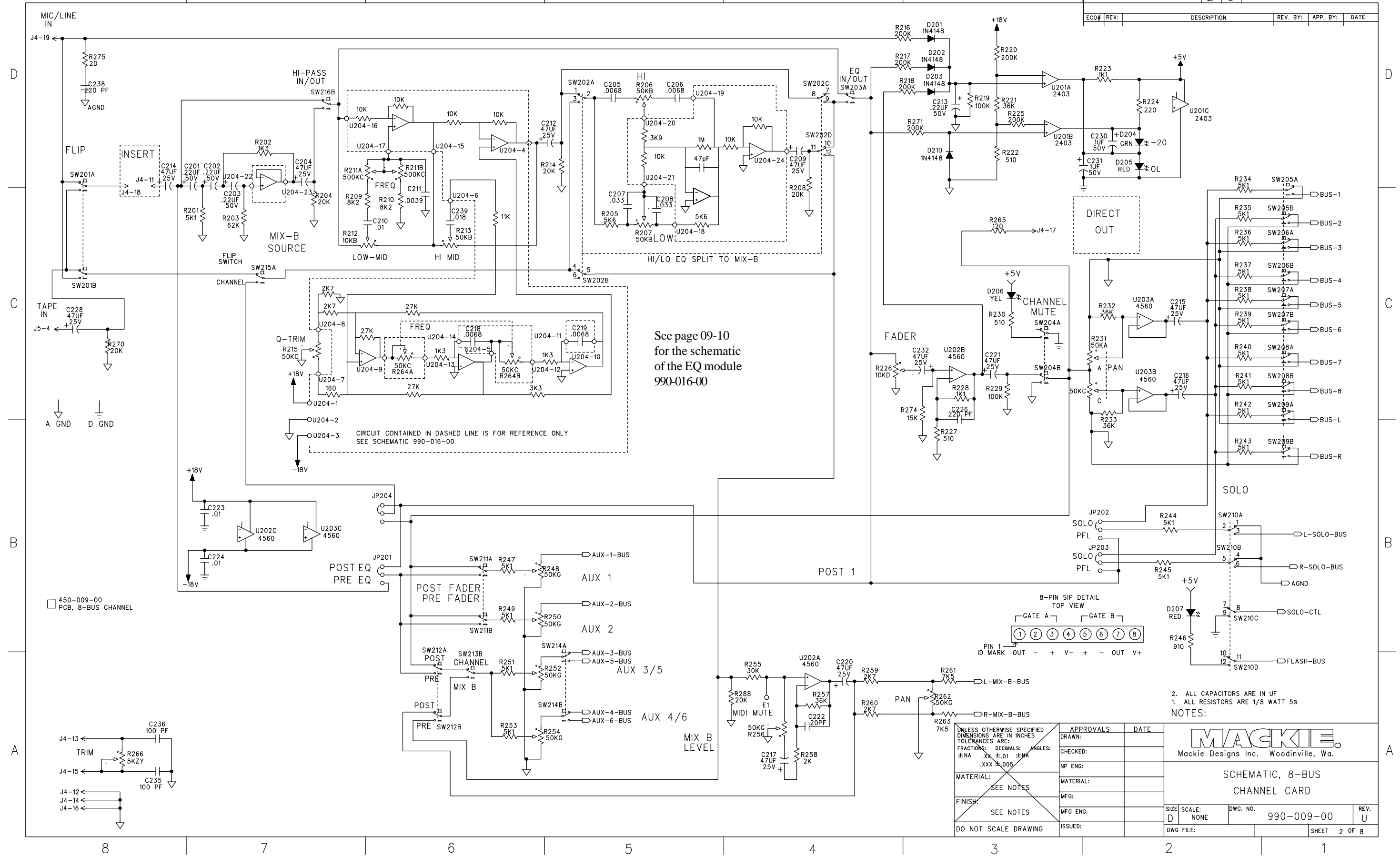
J6

CHANNEL 5 INS RTN	1	2	CHANNEL 5 GND
CHANNEL 5 TRIM	3	4	CHANNEL 5 GND
CHANNEL 5 TRIM	5	6	CHANNEL 5 GND
CHANNEL 5 DI OUT	7	8	CHANNEL 5 INS SEND
CHANNEL 5 PRE OUT	9	10	-16V
CHANNEL 6 INS RTN	11	12	CHANNEL 6 GND
CHANNEL 6 TRIM	13	14	CHANNEL 6 GND
CHANNEL 6 TRIM	15	16	CHANNEL 6 GND
CHANNEL 6 DI OUT	17	18	CHANNEL 6 INS SEND
CHANNEL 6 PRE OUT	19	20	-16V
CHANNEL 7 INS RTN	21	22	CHANNEL 7 GND
CHANNEL 7 TRIM	23	24	CHANNEL 7 GND
CHANNEL 7 TRIM	25	26	CHANNEL 7 GND
CHANNEL 7 DI OUT	27	28	CHANNEL 7 INS SEND
CHANNEL 7 PRE OUT	29	30	-16V
CHANNEL 8 INS RTN	31	32	CHANNEL 8 GND
CHANNEL 8 TRIM	33	34	CHANNEL 8 GND
CHANNEL 8 TRIM	35	36	CHANNEL 8 GND
CHANNEL 8 DI OUT	37	38	CHANNEL 8 INS SEND
CHANNEL 8 PRE OUT	39	40	-16V

DWG. NO.	990-009-00	SHT	1	REV.	U
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REV.	ECO#	DESCRIPTION	REV. BY:	APP. BY:	DATE
D		REVISED EQ COMPONENTS INCORP ECO 48	TH	JC	9-28-93
E		INCORP PCR 61 CX39 WAS .012	TH	JGG	11-16-93
F		INCORP PCR 108 POT HOLES WERE .082	TH	JGG	1-11-94
G,H,J		INCORP ECO 122 REVISED RX71	TH	JGG	2-15-94
L		INCORP ECO'S: 189,272,307,381,452,545.	KR		8-22-95
M		INCORP ECO'S: 427,738,804,852.	KR	ES	9-12-96
S		INCORP ECO'S: 987,993.	KR		11-15-96
T	921	LARGE CORE SWITCHES			
	926	LARGE CORE BUTTONS			
	1223	AUTO INSERT LED'S TO .038 HOLE SIZE			
	1294	REMOVE MADE IN U.S.A. NOTE			
	1344	2903'S TO 2403 8-PIN SIP'S			
	1387	SNAP IN SWITCHES			
	1406	NO STEP SHAFT POTS			
	1410	SOLDER BRIDGE REDUCTION			
	1411	SCORE PANEL & AD MATERIAL			
	1431	ALL SIP DECALS FROM 9-PIN TO 8-PIN			
	1454	8-PIN SIP 4560'S			
U	1489	INCORPORATE ECO'S: 921,926,987,993,1223,1294,1344,1387,1406,1410,1411,1431,1454.	KR		2-4-98

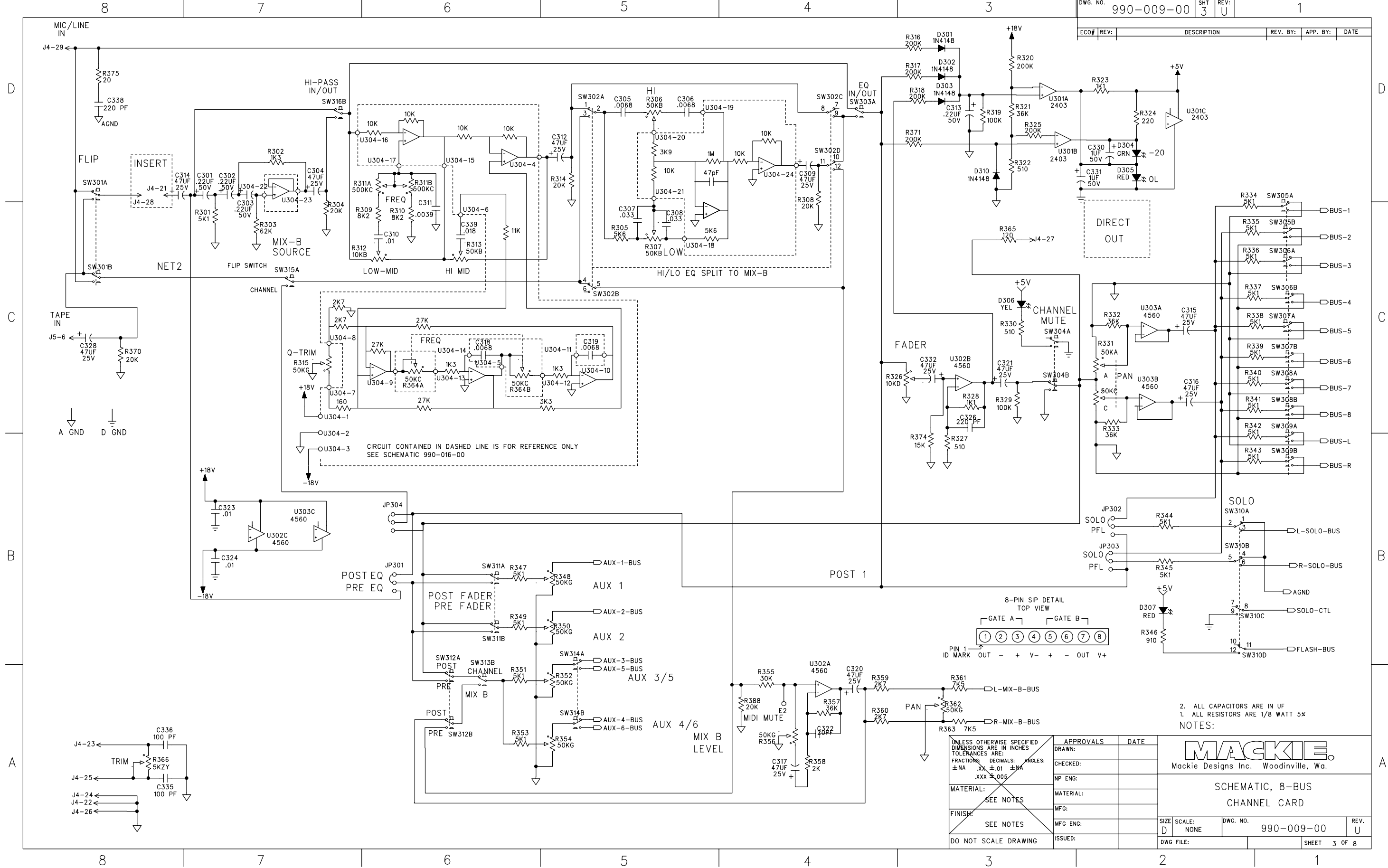




APPROVALS	DATE
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CHECKED:	
NP ENG:	
MATERIAL:	MATERIAL:
FINISH:	MFG:
DO NOT SCALE DRAWING	MFG ENG:
	ISSUED:

SIZE	SCALE	DWG. NO.	REV.
D	NONE	990-009-00	U
DWG FILE:			SHEET 2 OF 8

ECO#	REV.	DESCRIPTION	REV. BY.	APP. BY.	DATE

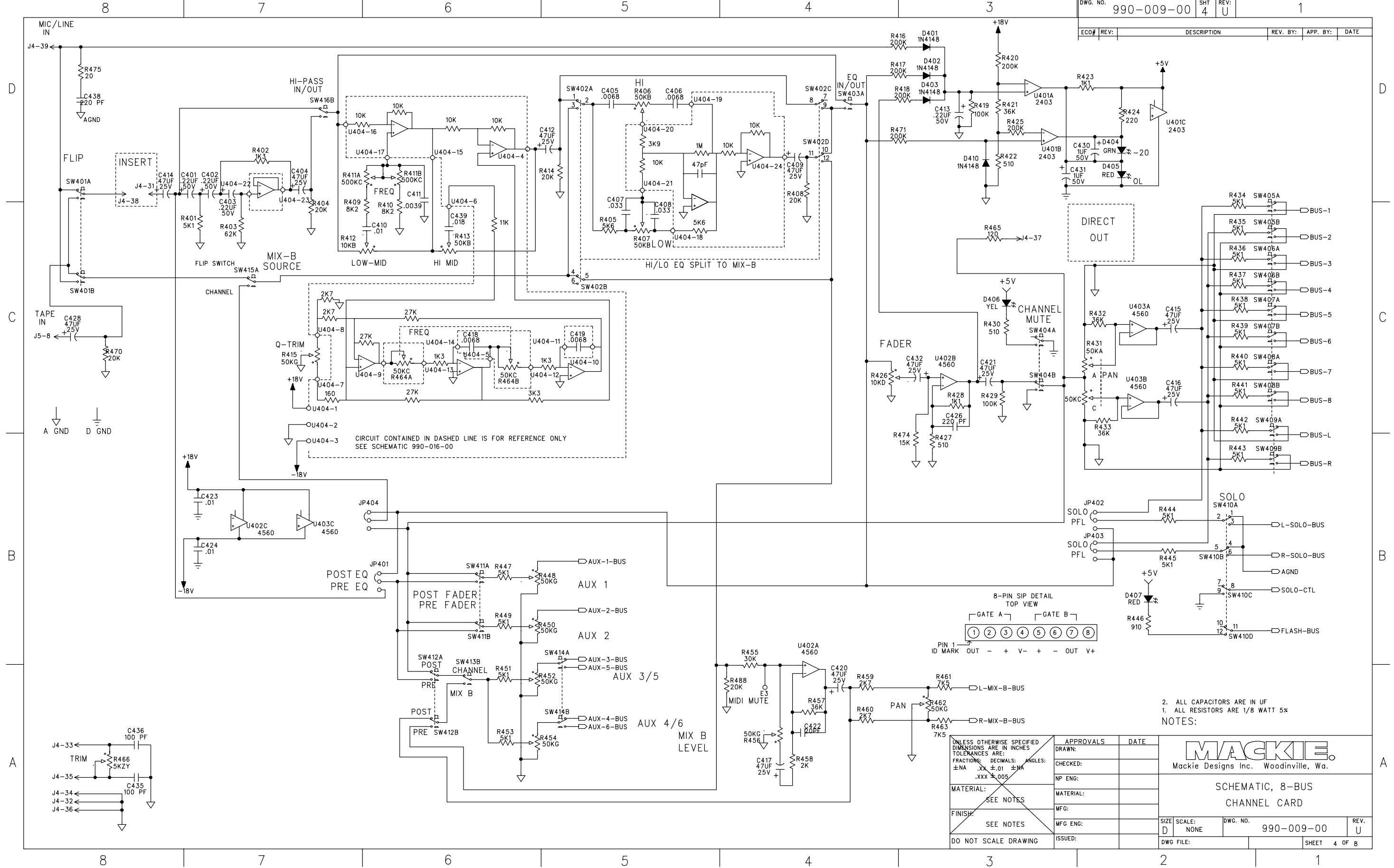


APPROVALS	DATE
DRAWN:	
CHECKED:	
NP ENG:	
MATERIAL:	
MFG:	
MFG ENG:	
ISSUED:	

MACKIE
Mackie Designs Inc. Woodinville, Wa.

SCHMATIC, 8-BUS CHANNEL CARD

SIZE	SCALE: NONE	DWG. NO.	990-009-00	REV.	U
DWG. FILE:				SHEET	3 OF 8



CIRCUIT CONTAINED IN DASHED LINE IS FOR REFERENCE ONLY
 SEE SCHEMATIC 990-016-00

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS: DECIMALS: ANGLES:
 ±NA .XX ±.01 ±NA
 .XXX ±.005

MATERIAL: SEE NOTES
 FINISH: SEE NOTES
 DO NOT SCALE DRAWING

APPROVALS	DATE
DRAWN:	
CHECKED:	
NP ENG:	
MATERIAL:	
MFG:	
MFG ENG:	
ISSUED:	

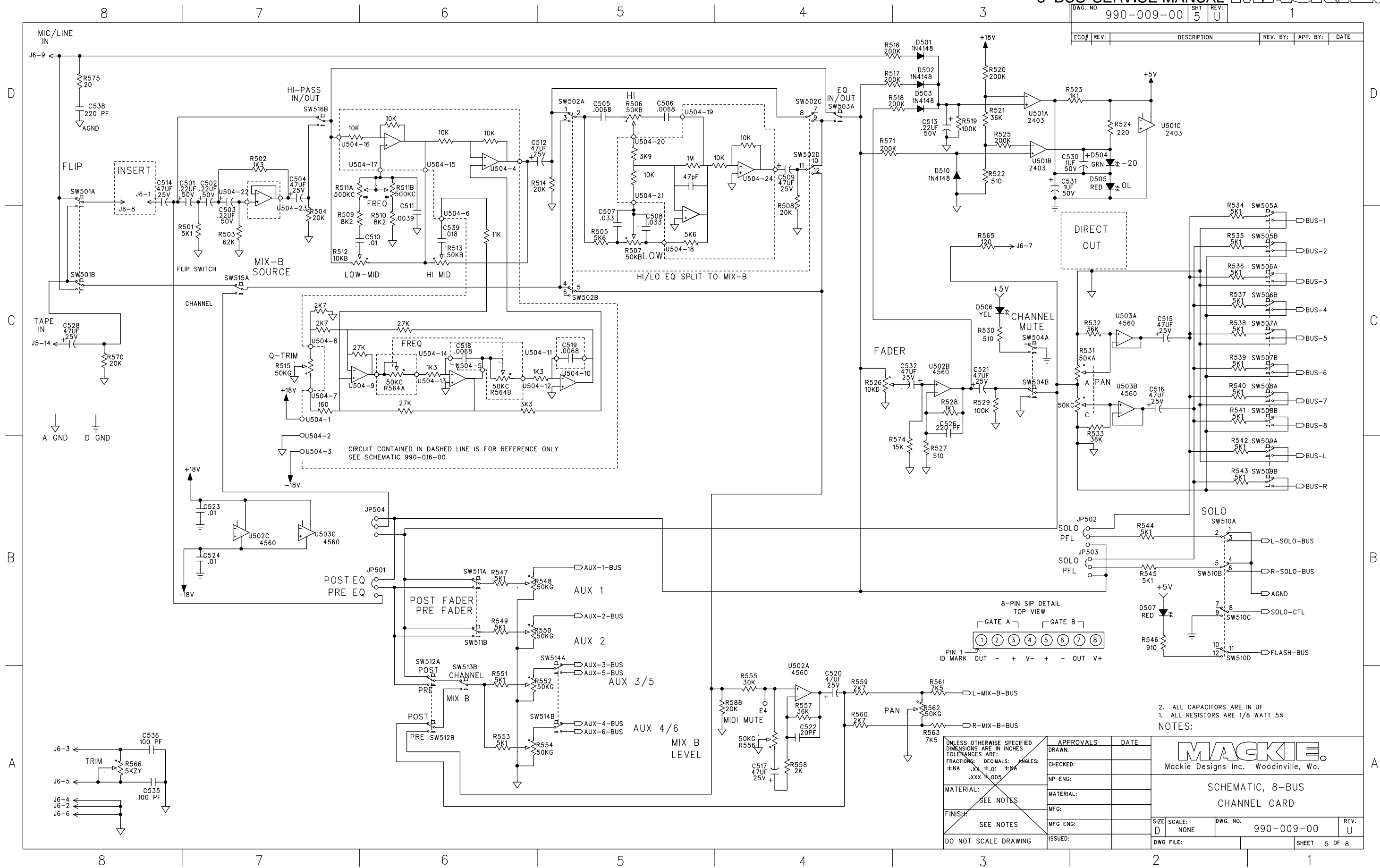
2. ALL CAPACITORS ARE IN UF
 1. ALL RESISTORS ARE 1/8 WATT 5%

NOTES:

MACKIE.
 Mackie Designs Inc. Woodinville, Wa.

SCHMATIC, 8-BUS
 CHANNEL CARD

SIZE: D	SCALE: NONE	DWG. NO. 990-009-00	REV. U
DWG FILE:		SHEET 4 OF 8	

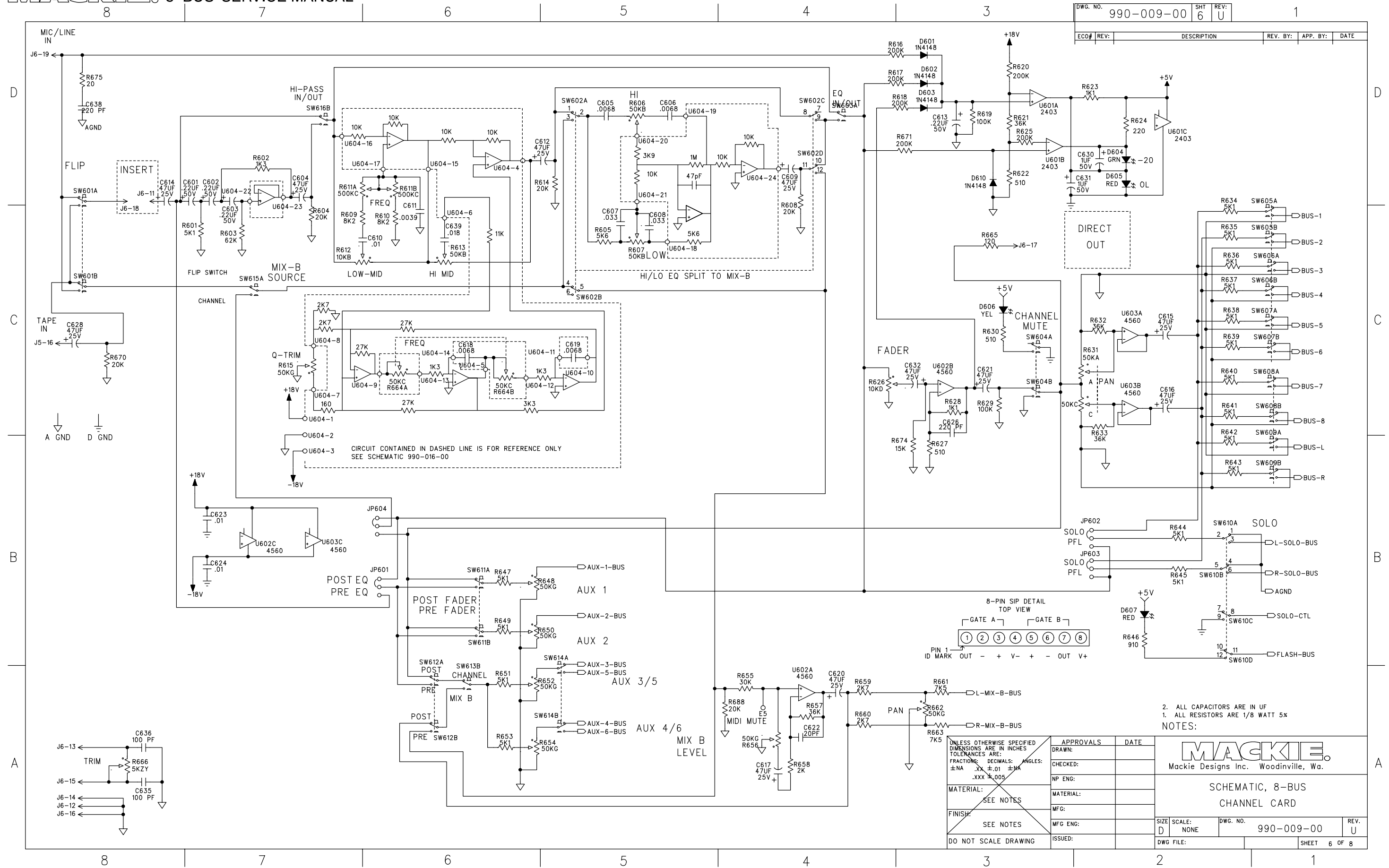


ECO#	REV:	DESCRIPTION	REV. BY:	APP. BY:	DATE

APPROVALS	DATE
DRAWN:	
CHECKED:	
NP ENG:	
MATERIAL:	
MFG:	
MFG ENG:	
ISSUED:	

2. ALL CAPACITORS ARE IN UF
 1. ALL RESISTORS ARE 1/8 WATT 5%
 NOTES:

<p>Mackie Designs Inc. Woodinville, Wa.</p>		SCHEMATIC, 8-BUS CHANNEL CARD	
		SIZE SCALE: NONE	DWG. NO. 990-009-00
DO NOT SCALE DRAWING		DWG FILE:	SHEET 5 OF 8

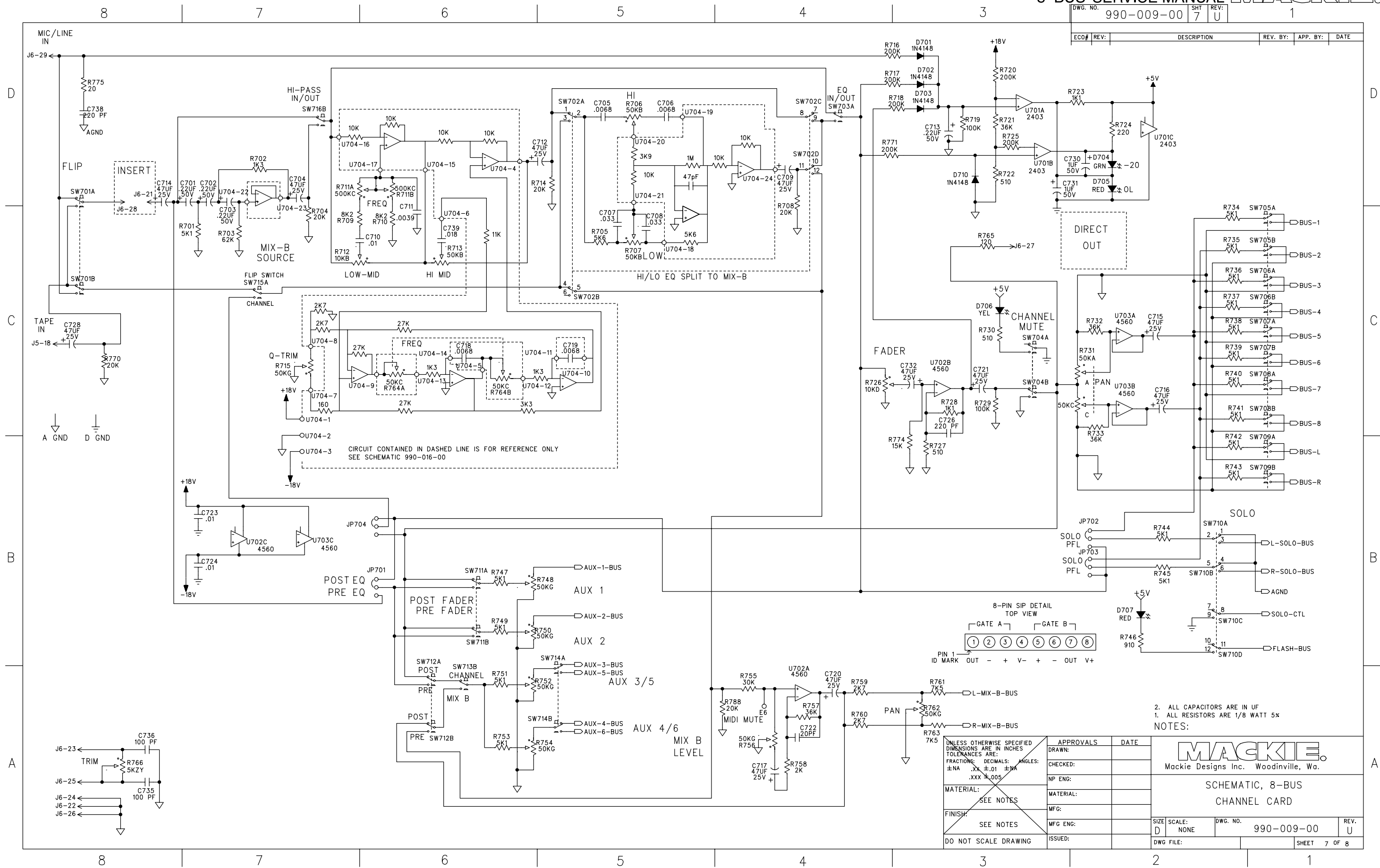


UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ±NA .XX ±.01 ±MA .XXX ±.005	APPROVALS	DATE
MATERIAL: SEE NOTES	DRAWN:	
FINISH: SEE NOTES	CHECKED:	
DO NOT SCALE DRAWING	NP ENG:	
	MATERIAL:	
	MFG:	
	MFG ENG:	
	ISSUED:	

MACKIE.
 Mackie Designs Inc. Woodinville, Wa.

SCHMATIC, 8-BUS
 CHANNEL CARD

SIZE: D	SCALE: NONE	DWG. NO. 990-009-00	REV. U
DWG FILE:		SHEET 6 OF 8	



CIRCUIT CONTAINED IN DASHED LINE IS FOR REFERENCE ONLY
SEE SCHEMATIC 990-016-00

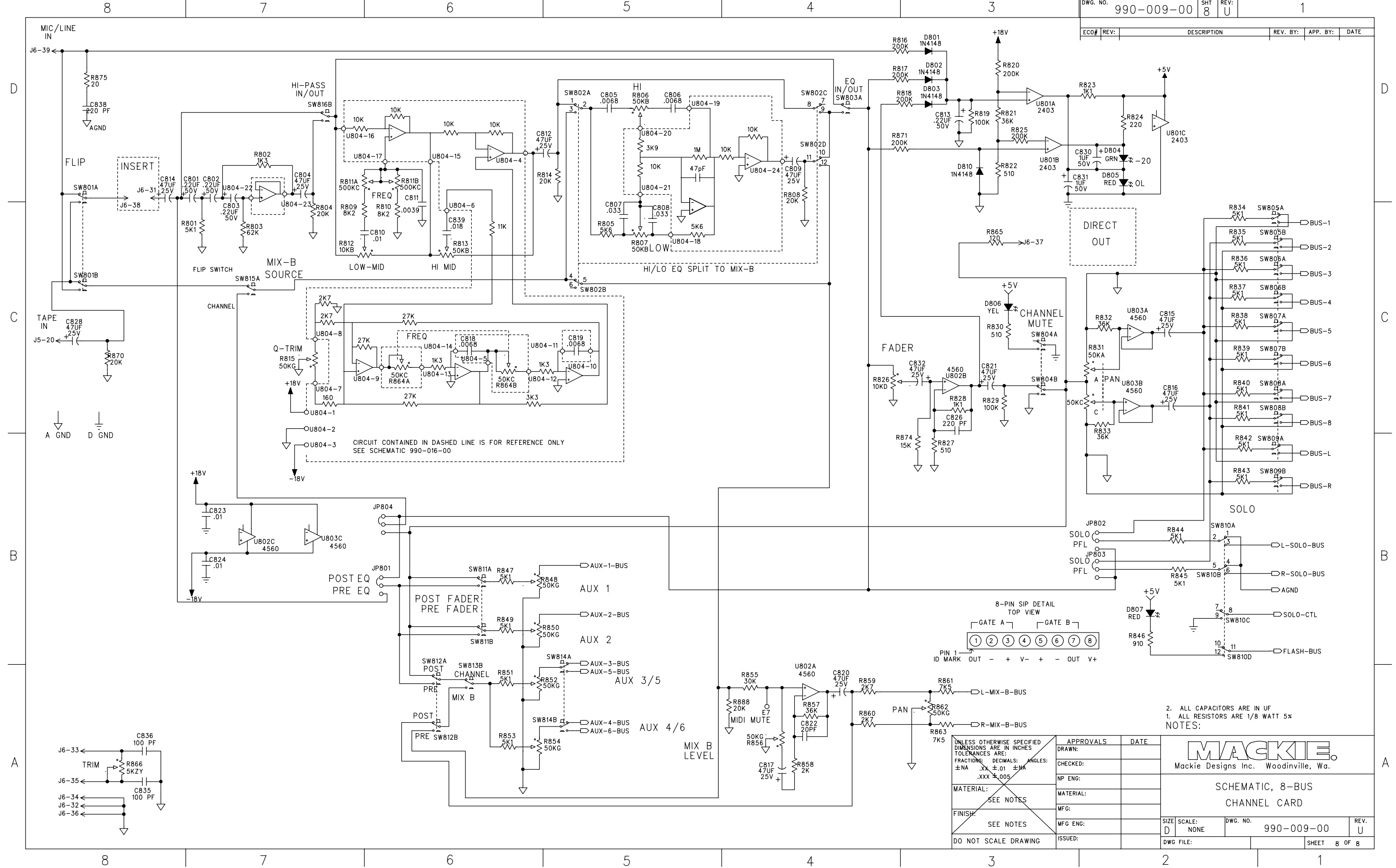
- NOTES:
2. ALL CAPACITORS ARE IN UF
1. ALL RESISTORS ARE 1/8 WATT 5%

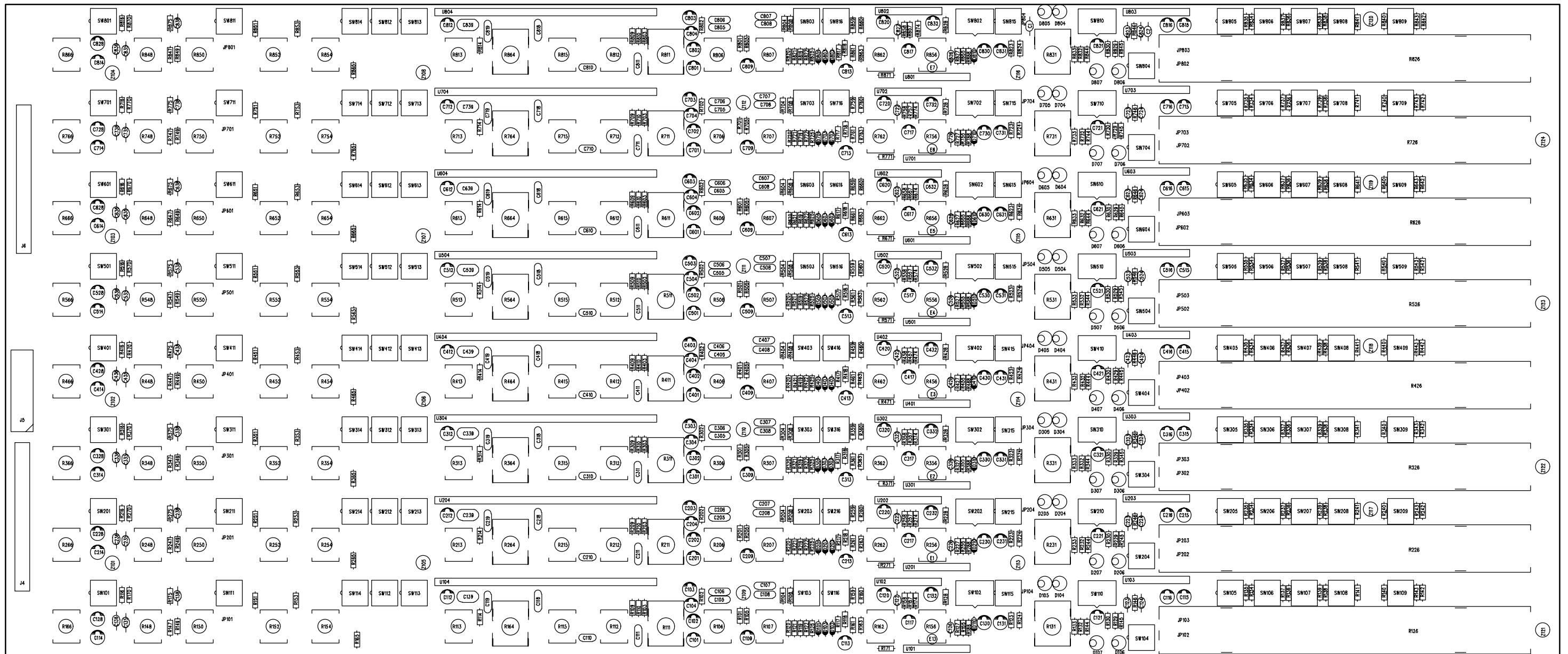
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ±.NA ±.XX ±.01 ±.NA .XXX ±.005	APPROVALS	DATE
MATERIAL: SEE NOTES	DRAWN:	
FINISH: SEE NOTES	CHECKED:	
DO NOT SCALE DRAWING	NP ENG:	
	MATERIAL:	
	MFG:	
	MFG ENG:	
	ISSUED:	

MACKIE
Mackie Designs Inc. Woodinville, Wa.

SCHEMATIC, 8-BUS CHANNEL CARD

SIZE: D	SCALE: NONE	DWG. NO. 990-009-00	REV. U
DWG. FILE:			SHEET 7 OF 8

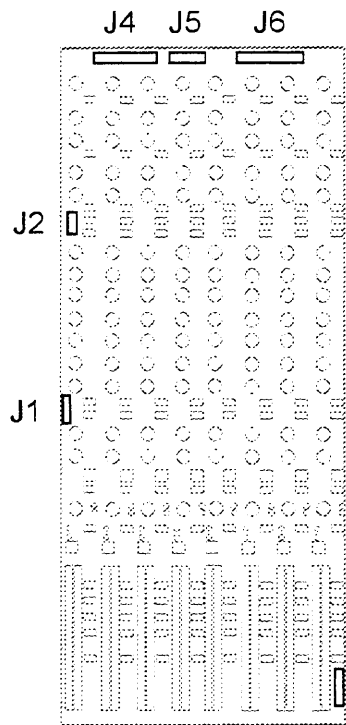




J1	
AGND 1	L-MIX-B-BUS 2
AGND 3	R-MIX-B-BUS 4
AGND 5	L-SOLO-BUS 6
AGND 7	R-SOLO-BUS 8
SOLO-CTL 9	FLASH-BUS 10
DGND 11	DGND 12
+5V 13	+5V 14

J2	
AUX-1-BUS 1	AGND 2
AUX-2-BUS 3	AGND 4
AUX-3-BUS 5	AGND 6
AUX-5-BUS 7	AGND 8
AUX-4-BUS 9	AUX-6-BUS 10

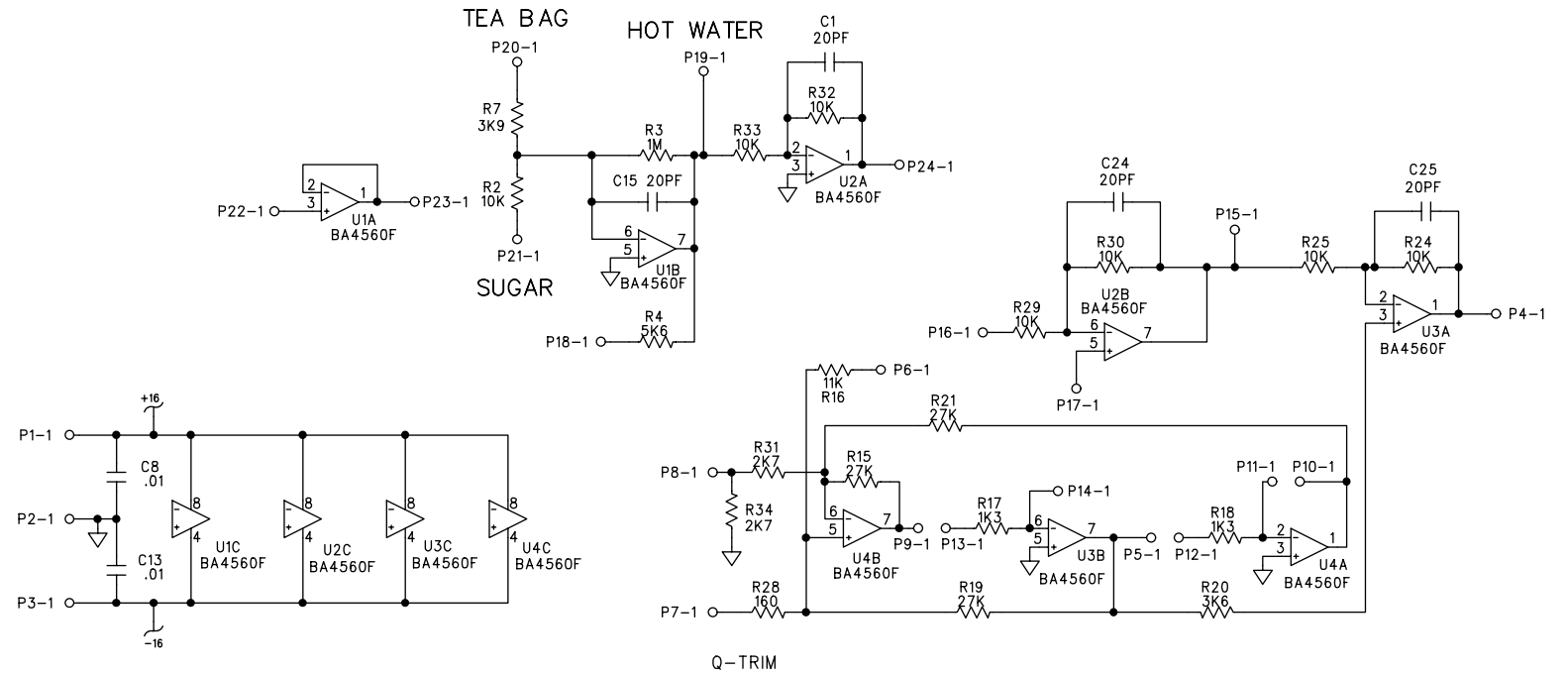
J3	
BUS-1 1	AGND 2
BUS-2 3	AGND 4
BUS-3 5	AGND 6
BUS-4 7	AGND 8
BUS-5 9	AGND 10
BUS-6 11	AGND 12
BUS-7 13	AGND 14
BUS-8 15	AGND 16
BUS-L 17	AGND 18
BUS-R 19	AGND 20



J4	
CHANNEL 1 INS RTN 1	CHANNEL 1 GND 2
CHANNEL 1 TRIM 3	CHANNEL 1 GND 4
CHANNEL 1 TRIM 5	CHANNEL 1 GND 6
CHANNEL 1 DI OUT 7	CHANNEL 1 INS SEND 8
CHANNEL 1 PRE OUT 9	+16V 10
CHANNEL 2 INS RTN 11	CHANNEL 2 GND 12
CHANNEL 2 TRIM 13	CHANNEL 2 GND 14
CHANNEL 2 TRIM 15	CHANNEL 2 GND 16
CHANNEL 2 DI OUT 17	CHANNEL 2 INS SEND 18
CHANNEL 2 PRE OUT 19	+16V 20
CHANNEL 3 INS RTN 21	CHANNEL 3 GND 22
CHANNEL 3 TRIM 23	CHANNEL 3 GND 24
CHANNEL 3 TRIM 25	CHANNEL 3 GND 26
CHANNEL 3 DI OUT 27	CHANNEL 3 INS SEND 28
CHANNEL 3 PRE OUT 29	+16V 30
CHANNEL 4 INS RTN 31	CHANNEL 4 GND 32
CHANNEL 4 TRIM 33	CHANNEL 4 GND 34
CHANNEL 4 TRIM 35	CHANNEL 4 GND 36
CHANNEL 4 DI OUT 37	CHANNEL 4 INS SEND 38
CHANNEL 4 PRE OUT 39	+16V 40

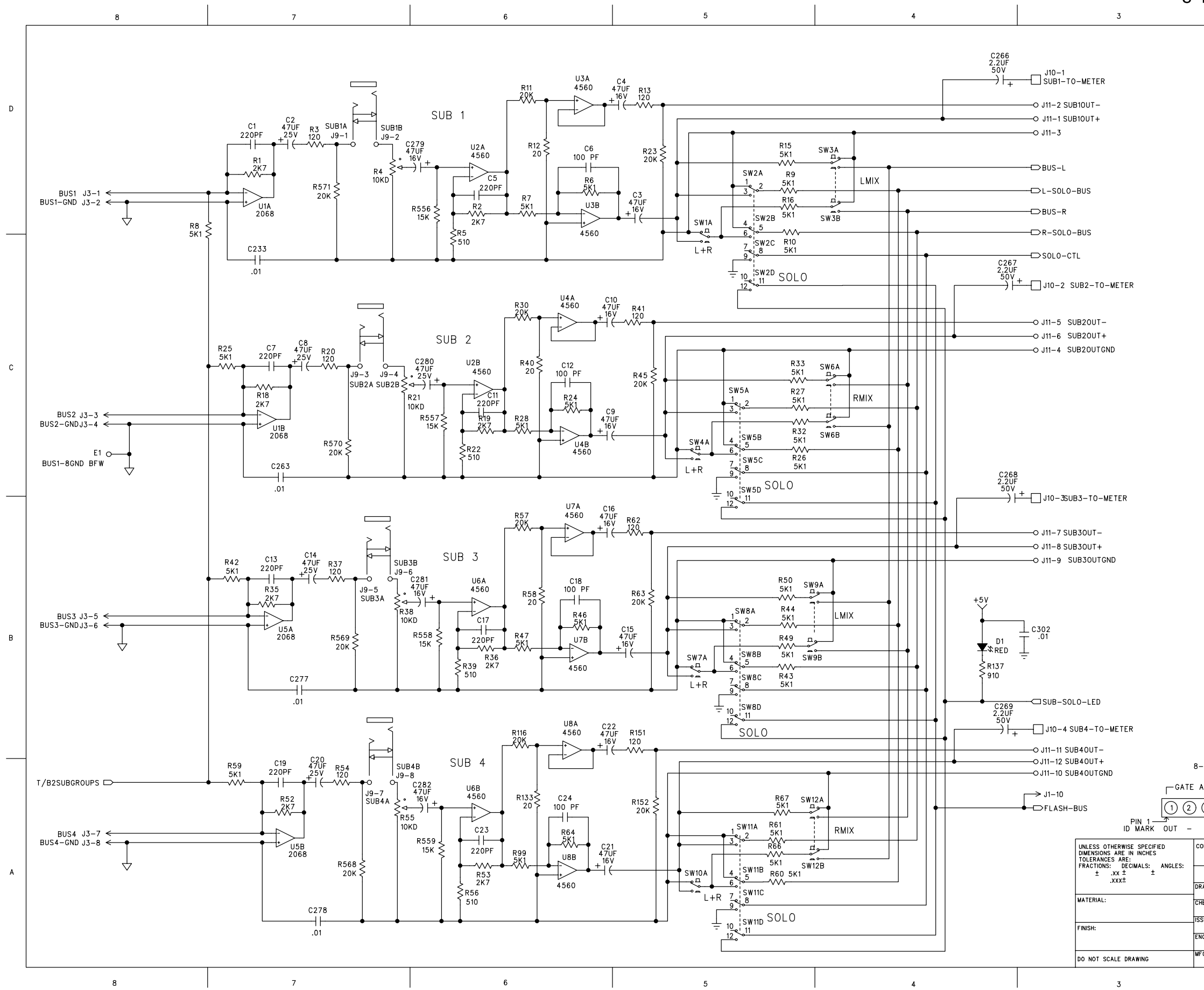
J5	
N/C 1	TAPE RTN 1 2
N/C 3	TAPE RTN 2 4
N/C 5	TAPE RTN 3 6
N/C 7	TAPE RTN 4 8
DGND 9	+5V 10
-16V 11	+16V 12
N/C 13	TAPE RTN 5 14
N/C 15	TAPE RTN 6 16
N/C 17	TAPE RTN 7 18
N/C 19	TAPE RTN 8 20

J6	
CHANNEL 5 INS RTN 1	CHANNEL 5 GND 2
CHANNEL 5 TRIM 3	CHANNEL 5 GND 4
CHANNEL 5 TRIM 5	CHANNEL 5 GND 6
CHANNEL 5 DI OUT 7	CHANNEL 5 INS SEND 8
CHANNEL 5 PRE OUT 9	-16V 10
CHANNEL 6 INS RTN 11	CHANNEL 6 GND 12
CHANNEL 6 TRIM 13	CHANNEL 6 GND 14
CHANNEL 6 TRIM 15	CHANNEL 6 GND 16
CHANNEL 6 DI OUT 17	CHANNEL 6 INS SEND 18
CHANNEL 6 PRE OUT 19	-16V 20
CHANNEL 7 INS RTN 21	CHANNEL 7 GND 22
CHANNEL 7 TRIM 23	CHANNEL 7 GND 24
CHANNEL 7 TRIM 25	CHANNEL 7 GND 26
CHANNEL 7 DI OUT 27	CHANNEL 7 INS SEND 28
CHANNEL 7 PRE OUT 29	-16V 30
CHANNEL 8 INS RTN 31	CHANNEL 8 GND 32
CHANNEL 8 TRIM 33	CHANNEL 8 GND 34
CHANNEL 8 TRIM 35	CHANNEL 8 GND 36
CHANNEL 8 DI OUT 37	CHANNEL 8 INS SEND 38
CHANNEL 8 PRE OUT 39	-16V 40



SCHEMATIC
EQ MODULE
990-016-00

REVISIONS			
REV:	ECO:	DESCRIPTION	REV BY: APP BY: DATE
C		INCORP ECO 52	trh JC 9-28-93
D	58	ADDED R611, D21	trh JC 10-13-93
E	66	ARTWORK REVISED FOR SOLDERABILITY	trh JC 11-02-93
F	69	DELETED RESISTORS ADDED WITH ECO 52	trh 11-16-93
G	109	U57 WAS NJM2043, REVISED NJM2068.	trh 12-28-93
H		SPREAD APART LYTICS	trh 1-19-94
J	145 158	PHASE 1 ; DIODE HOLES WERE .032	trh JGG 4-17-94
K		INCORP ECO'S:189,193,307,545,568,588.	KR 9-12-95
L		INCORP ECO'S:427,631,727,852.	KR ES 2-16-96
S	987 993	AUTO INSERT LED'S SOLDER BRIDGE REDUCTION	KR 11-15-96
T	921 926 1223 1284 1294 1387 1406 1410 1411 1454	LARGE CORE SWITCHES LARGE CORE BUTTONS AUTO INSERT LED'S TO .038 HOLE SIZE AUTO INSERT 25C3792'S REMOVE MADE IN U.S.A. NOTE SNAP IN SWITCHES NO STEP SHAFT 50KG DUAL SOLDER BRIDGE REDUCTION SCORE PANEL & ADD MATERIAL 8-PIN SIP 4560'S	KR 1-6-98
U	1490	INCORPORATE ECO'S: 987,993,921,926,1223, 1284,1294,1387,1406,1410,1411,1454.	KR 2-3-98

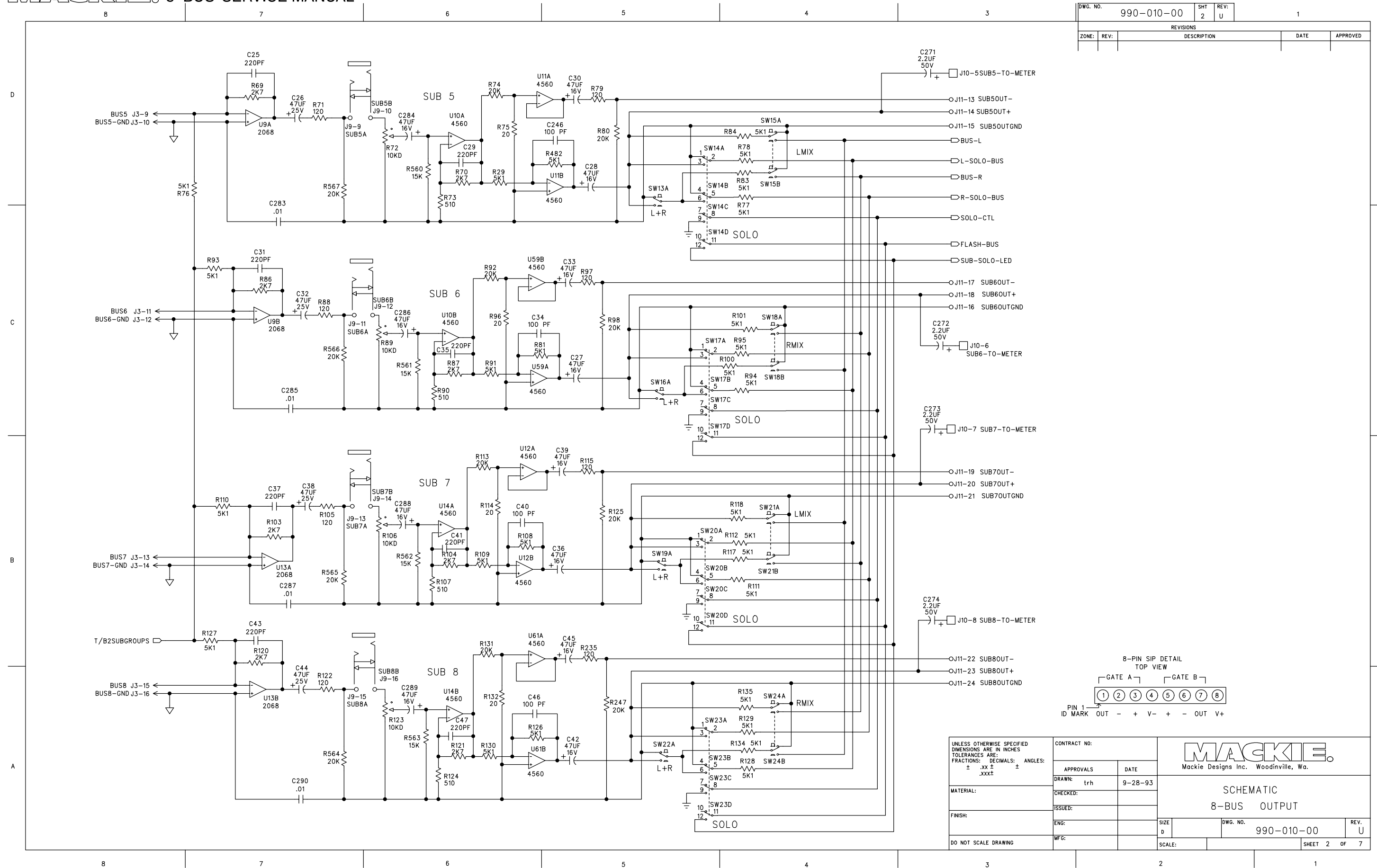


8-PIN SIP DETAIL
TOP VIEW

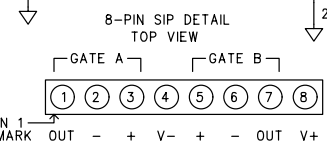
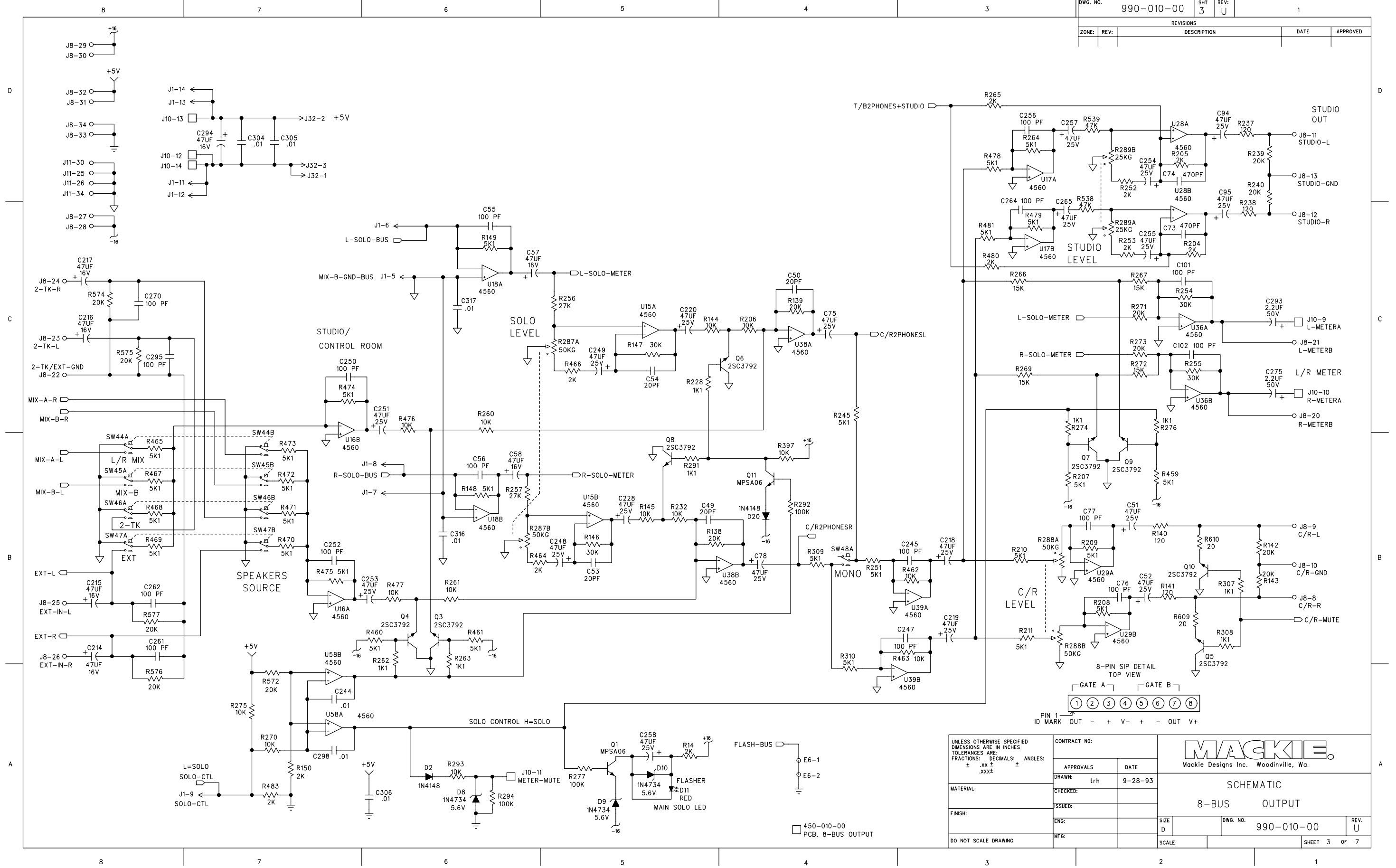
PIN 1 ID MARK OUT - + V- + - OUT V+

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ±.xx ± .xxx±		CONTRACT NO:		 Mackie Designs Inc. Woodinville, Wa.	
MATERIAL:		APPROVALS:	DATE:		
FINISH:		CHECKED: CJ	7-9-93		
DO NOT SCALE DRAWING		ISSUED: CR	7-9-93		
		ENG:		SIZE: D	DWG. NO. 990-010-00
		MFG:		SCALE:	SHEET 1 OF 7

REVISIONS			DATE	APPROVED
ZONE:	REV:	DESCRIPTION		



REVISIONS		DATE	APPROVED
ZONE:	REV:	DESCRIPTION	



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ± .xx ± .xxx ±

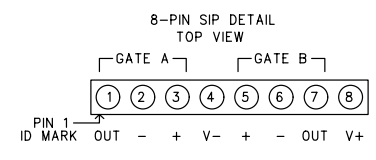
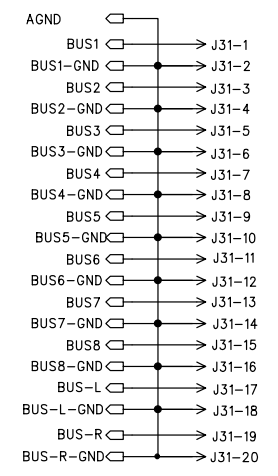
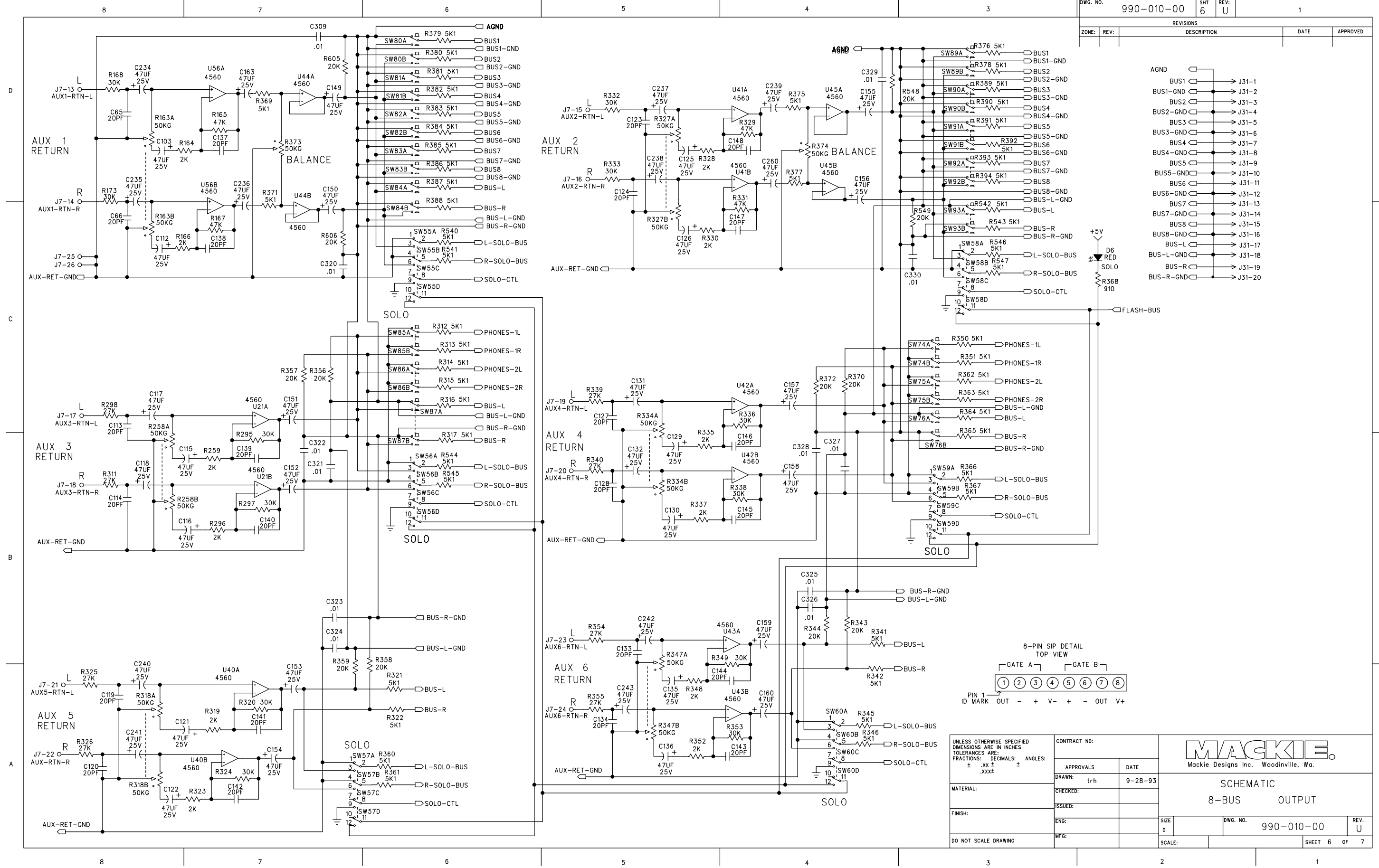
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MATERIAL:		ISSUED:			
FINISH:		ENG:			
DO NOT SCALE DRAWING		MFG:			

MACKIE
Mackie Designs Inc. Woodinville, Wa.

SCHEMATIC
8-BUS OUTPUT

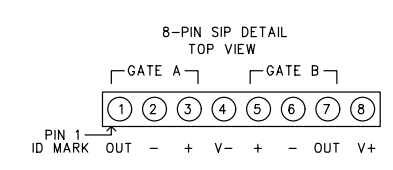
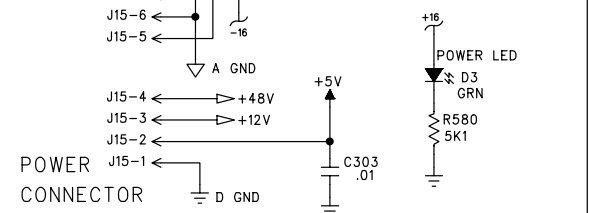
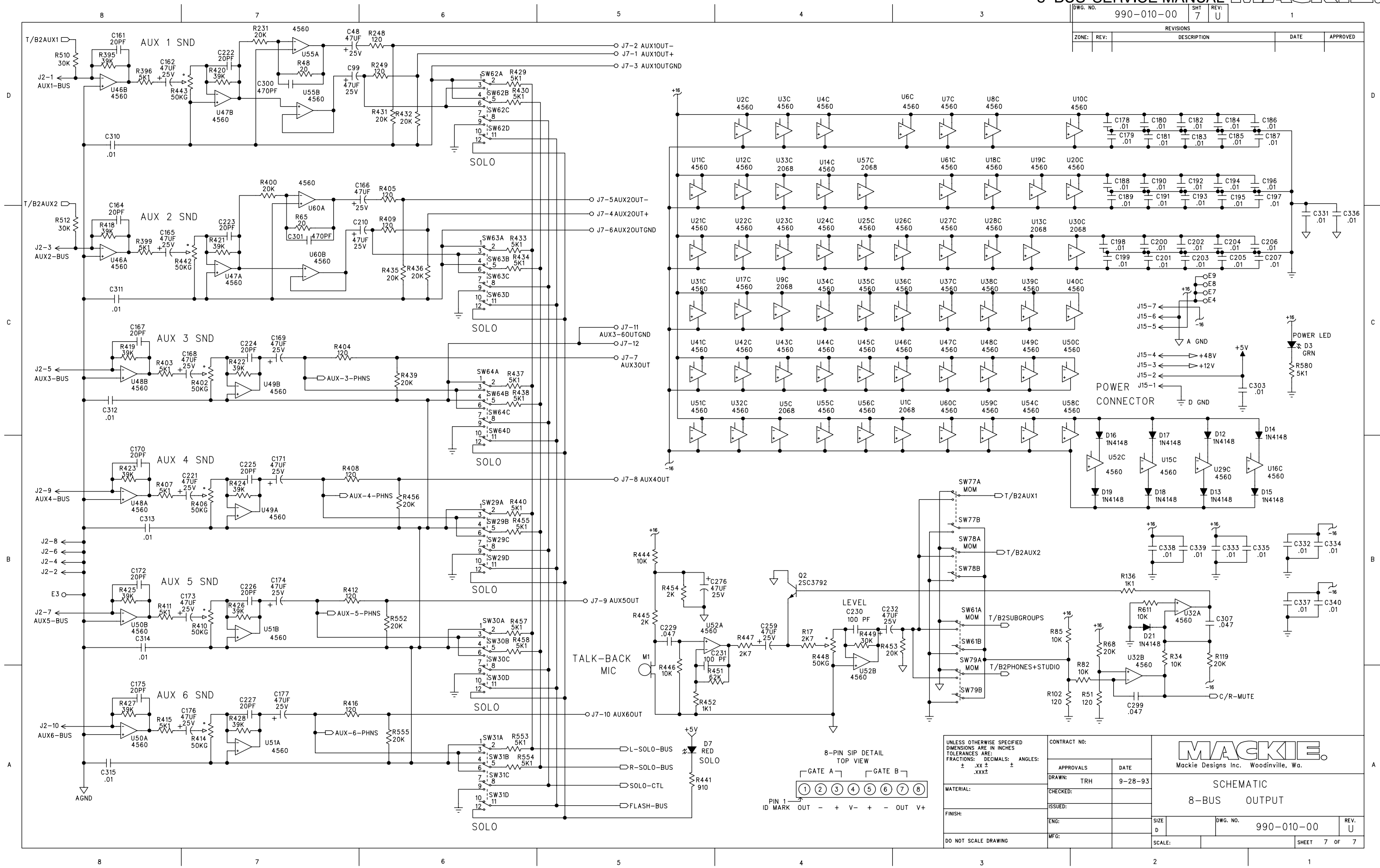
SIZE D	DWG. NO. 990-010-00	REV. U
SCALE:	SHEET 3 OF 7	

REVISIONS			
ZONE:	REV:	DESCRIPTION	DATE



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ± .xx ± ± .xxx ±	CONTRACT NO:		 Mackie Designs Inc. Woodinville, Wa.
	APPROVALS	DATE	
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	CHECKED:		
MATERIAL:	ISSUED:		
FINISH:	ENG:		
DO NOT SCALE DRAWING	MFG:		
		SIZE	DWG. NO. 990-010-00
		D	REV. U
		SCALE:	SHEET 6 OF 7

REVISIONS		DATE	APPROVED
ZONE:	REV:	DESCRIPTION	

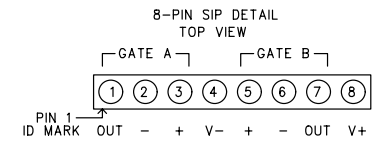
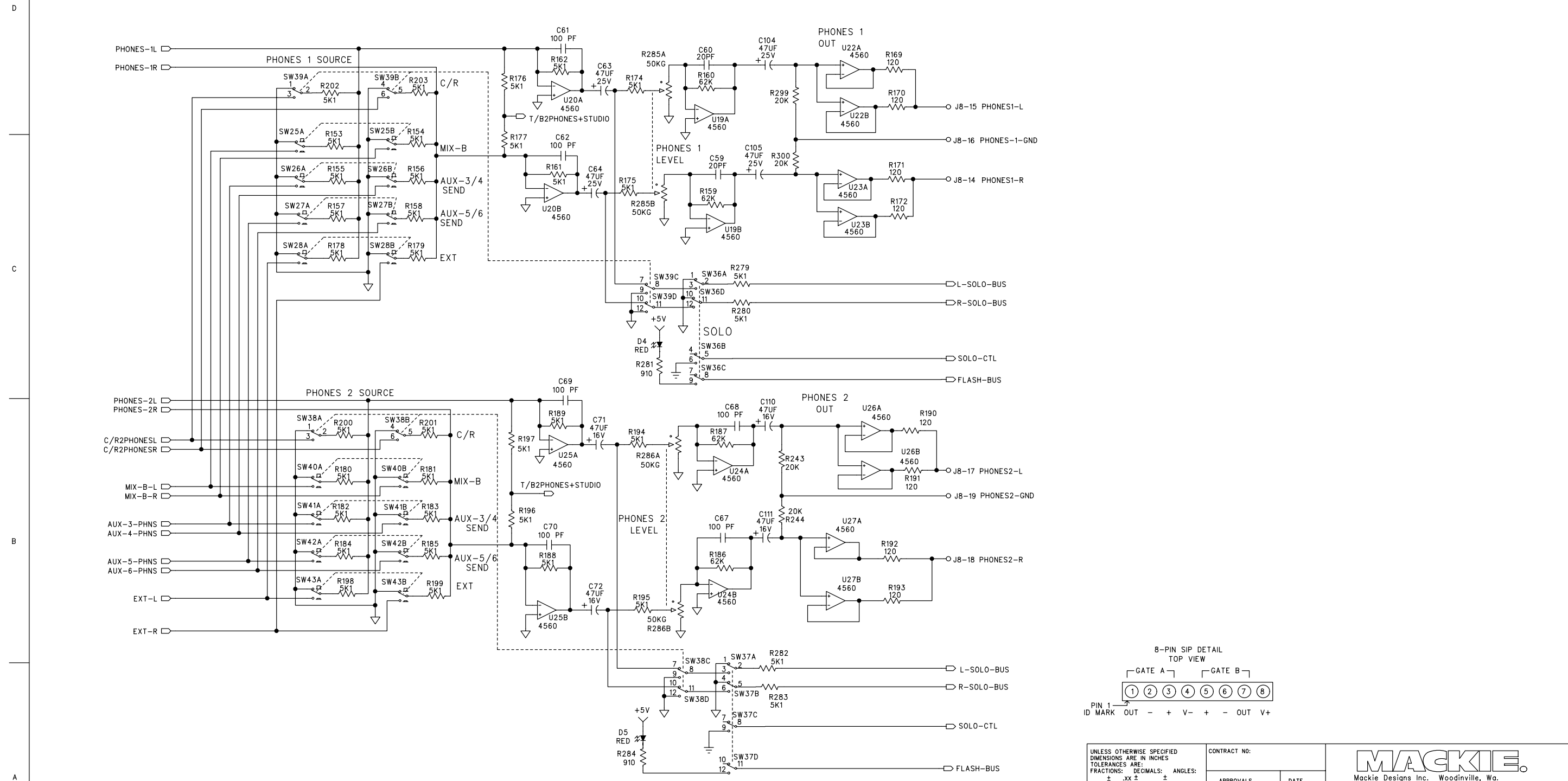


UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ±.xx ±.xxx±

CONTRACT NO:	
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ENG:	
MFG:	
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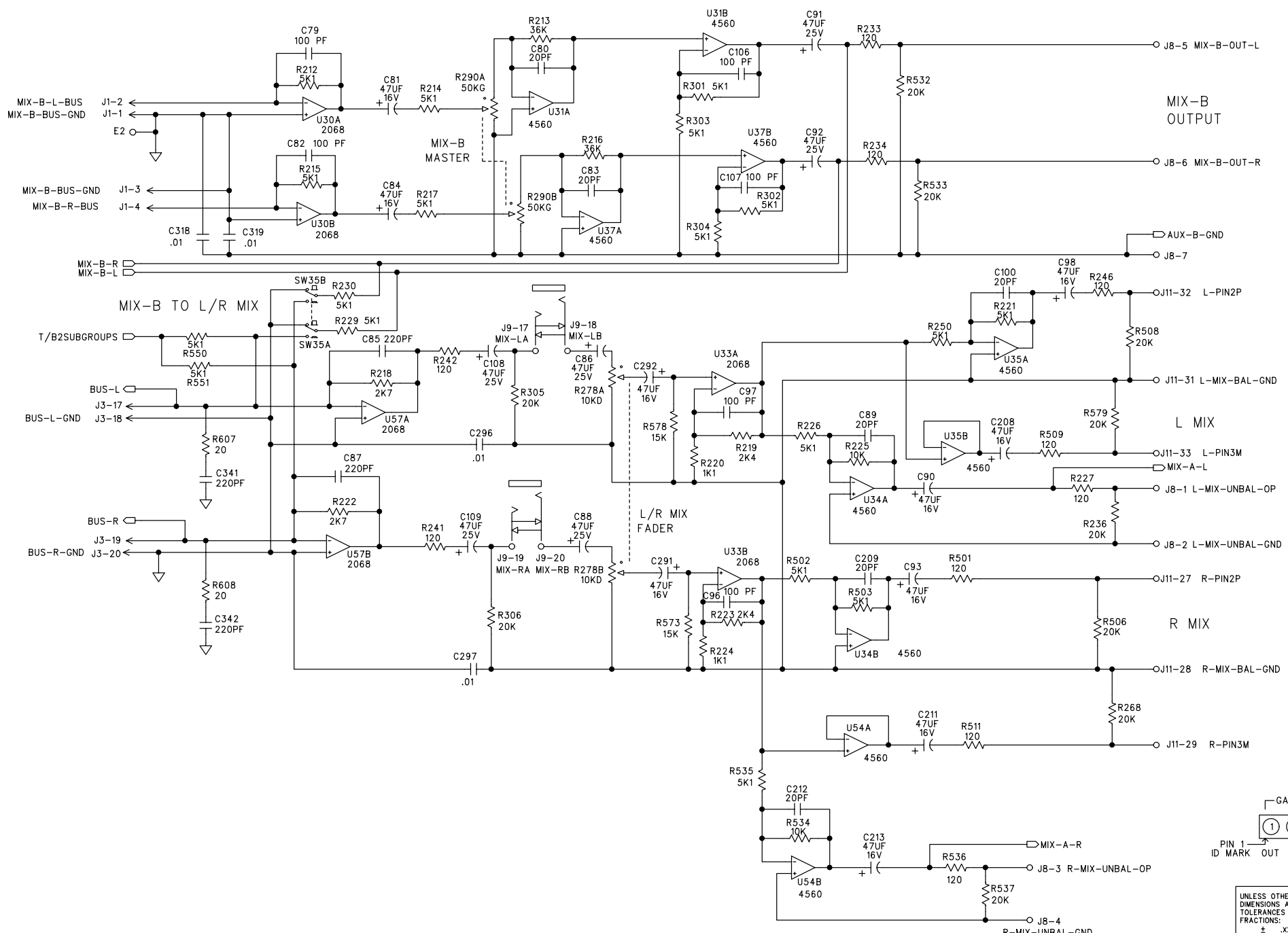
MACKIE Mackie Designs Inc. Woodville, Wa.		SHEET 7 OF 7	
		SIZE: D	DWG. NO. 990-010-00
SCHEMATIC		REV: U	
8-BUS OUTPUT		SCALE:	

REVISIONS		DATE	APPROVED
ZONE:	REV:	DESCRIPTION	



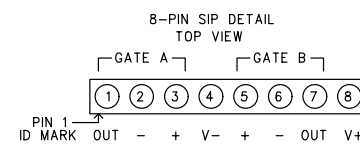
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: .xx ± DECIMALS: .xxx ±	CONTRACT NO:		 Mackie Designs Inc. Woodinville, Wa.		
	APPROVALS:	DATE:			
MATERIAL:	DRAWN: trh	9-28-93	SCHEMATIC 8-BUS OUTPUT		
FINISH:	CHECKED:	ISSUED:			
DO NOT SCALE DRAWING	ENG:	MFG:	SIZE D	DWG. NO. 990-010-00	REV. U
			SCALE:	SHEET 4 OF 7	

DWG. NO.	990-010-00	SHT	5	REV.	U
REVISIONS					
ZONE:	REV:	DESCRIPTION	DATE	APPROVED	

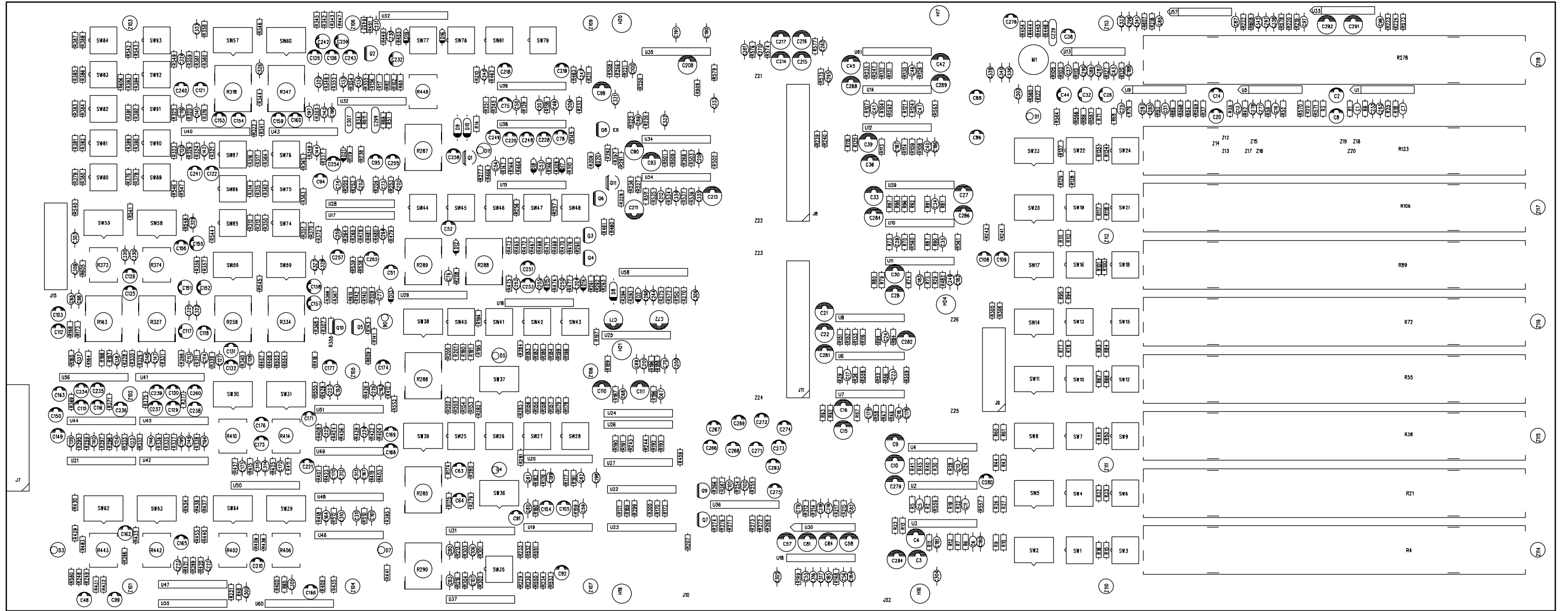


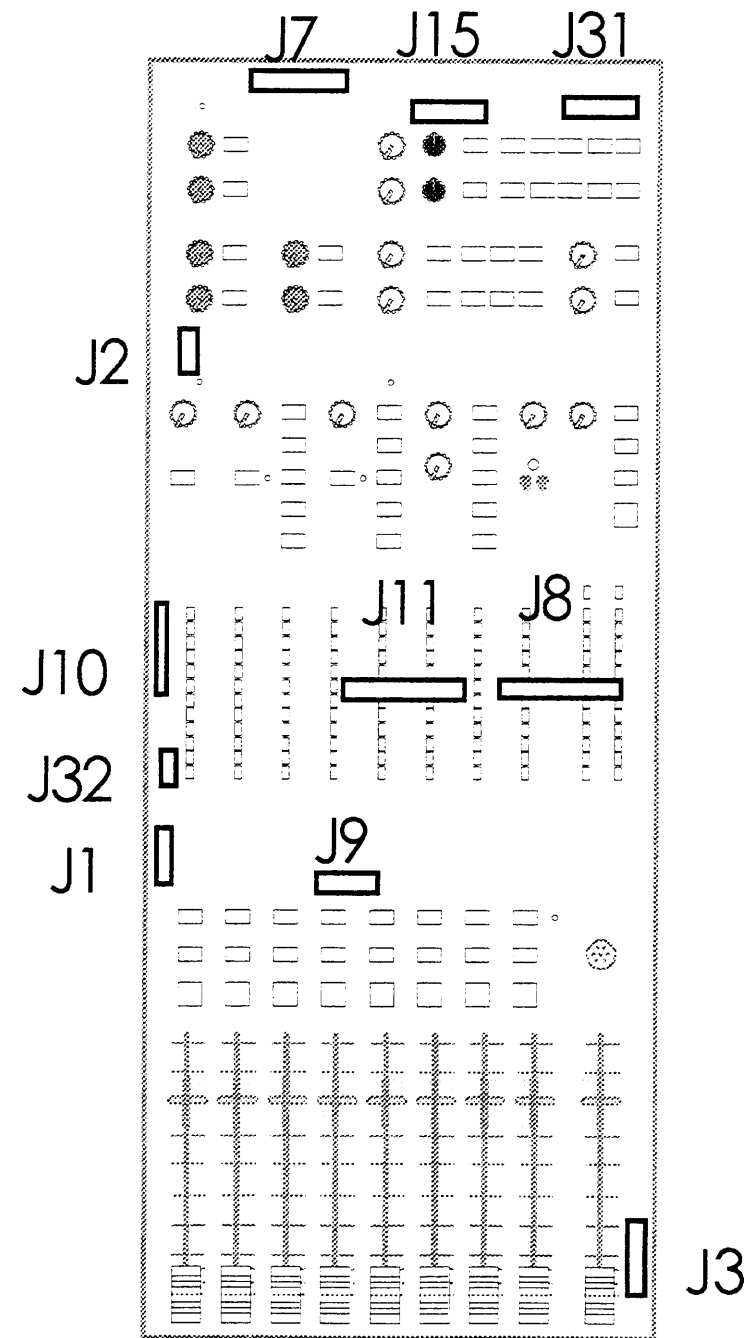
- Z101 706-033-01
- STANDOFF, SWAGE, 4-40 X .542L
- Z102 706-033-01
- STANDOFF, SWAGE, 4-40 X .542L
- Z103 706-033-01
- STANDOFF, SWAGE, 4-40 X .542L
- Z104 706-033-01
- STANDOFF, SWAGE, 4-40 X .542L
- Z105 706-033-01
- STANDOFF, SWAGE, 4-40 X .542L
- Z106 706-033-01
- STANDOFF, SWAGE, 4-40 X .542L
- Z107 706-033-01
- STANDOFF, SWAGE, 4-40 X .542L
- Z108 706-033-01
- STANDOFF, SWAGE, 4-40 X .542L
- Z109 706-033-01
- STANDOFF, SWAGE, 4-40 X .542L
- Z110 706-033-01
- STANDOFF, SWAGE, 4-40 X .542L
- Z111 706-033-01
- STANDOFF, SWAGE, 4-40 X .542L
- Z112 706-033-01
- STANDOFF, SWAGE, 4-40 X .542L
- Z113 706-033-01
- STANDOFF, SWAGE, 4-40 X .542L
- Z114 706-033-01
- STANDOFF, SWAGE, 4-40 X .542L
- Z115 706-033-01
- STANDOFF, SWAGE, 4-40 X .542L
- Z116 706-033-01
- STANDOFF, SWAGE, 4-40 X .542L
- Z117 706-033-01
- STANDOFF, SWAGE, 4-40 X .542L
- Z118 706-033-01
- STANDOFF, SWAGE, 4-40 X .542L

- QTY
- 9 760-011-00
BTN 9X9MM LG CORE
 - 65 760-013-00
BTN 9X5MM LG CORE
 - 1 706-009-00
SPACER, PLASTIC .385 LED



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ± .xx ± ± .xxx ±	CONTRACT NO:		MACKIE Mackie Designs Inc. Woodinville, Wa.
	APPROVALS:	DATE:	
	DRAWN: trh	9-28-93	
	CHECKED:		
MATERIAL:	CHECKED:		SCHEMATIC 8-BUS OUTPUT
FINISH:	ISSUED:		
DO NOT SCALE DRAWING	ENG:		
	MFG:		
	SIZE D	DWG. NO. 990-010-00	REV. U
	SCALE:	SHEET 5 OF 7	





J1

AGND	1	2	L-MIX-B-BUS
AGND	3	4	R-MIX-B-BUS
AGND	5	6	L-SOLO-BUS
AGND	7	8	R-SOLO-BUS
SOLO-CTL	9	10	FLASH-BUS
DGND	11	12	DGND
+5V	13	14	+5V

J2

AUX-1-BUS	1	2	AGND
AUX-2-BUS	3	4	AGND
AUX-3-BUS	5	6	AGND
AUX-5-BUS	7	8	AGND
AUX-4-BUS	9	10	AUX-6-BUS

J3

BUS-1	1	2	AGND
BUS-2	3	4	AGND
BUS-3	5	6	AGND
BUS-4	7	8	AGND
BUS-5	9	10	AGND
BUS-6	11	12	AGND
BUS-7	13	14	AGND
BUS-8	15	16	AGND
BUS-L	17	18	AGND
BUS-R	19	20	AGND

J7

AUX 1 OUT +	1	2	AUX 1 OUT -
AUX 1 OUT GND	3	4	AUX 2 OUT +
AUX 2 OUT -	5	6	AUX 2 OUT GND
AUX 3 OUT	7	8	AUX 4 OUT
AUX 5 OUT	9	10	AUX 6 OUT
AUX 3-6 GND	11	12	AUX 3-6 GND
AUX 1 RTN L	13	14	AUX 1 RTN R
AUX 2 RTN L	15	16	AUX 2 RTN R
AUX 3 RTN L	17	18	AUX 3 RTN R
AUX 4 RTN L	19	20	AUX 4 RTN R
AUX 5 RTN L	21	22	AUX 5 RTN R
AUX 6 RTN L	23	24	AUX 6 RTN R
AUX RTN GND	25	26	AUX RTN GND

J8

L MIX UNBAL OUT	1	2	L MIX UNBAL GND
R MIX UNBAL OUT	3	4	R MIX UNBAL GND
MIX B OUT L	5	6	MIX B OUT R
MIX B GND	7	8	CONTROL ROOM R
CONTROL ROOM L	9	10	CONTROL ROOM GND
STUDIO L	11	12	STUDIO R
STUDIO GND	13	14	PHONES 1 R
PHONES 1 L	15	16	PHONES 1 GND
PHONES 2 L	17	18	PHONES 2 R
PHONES 2 GND	19	20	R METER B
L METER B	21	22	2 TRK/EXT GND
2 TRK L	23	24	2 TRK R
EXT IN L	25	26	EXT IN R
-16V	27	28	-16V
+16V	29	30	+16V
+5V	31	32	+5V
DGND	33	34	DGND

J9

SUB 1 INS SEND	1	2	SUB 1 INS RTN
SUB 2 INS SEND	3	4	SUB 2 INS RTN
SUB 3 INS SEND	5	6	SUB 3 INS RTN
SUB 4 INS SEND	7	8	SUB 4 INS RTN
SUB 5 INS SEND	9	10	SUB 5 INS RTN
SUB 6 INS SEND	11	12	SUB 6 INS RTN
SUB 7 INS SEND	13	14	SUB 6 INS RTN
SUB 8 INS SEND	15	16	SUB 8 INS RTN
L MIX INS SEND	17	18	L MIX INS RTN
R MIX INS SEND	19	20	R MIX INS RTN

J10

SUB 1 TO METER	1
SUB 2 TO METER	2
SUB 3 TO METER	3
SUB 4 TO METER	4
SUB 5 TO METER	5
SUB 6 TO METER	6
SUB 7 TO METER	7
SUB 8 TO METER	8
L TO METER	9
R TO METER	10
SUB METER MUTE	11
DGND	12
+5V	13
DGND	14

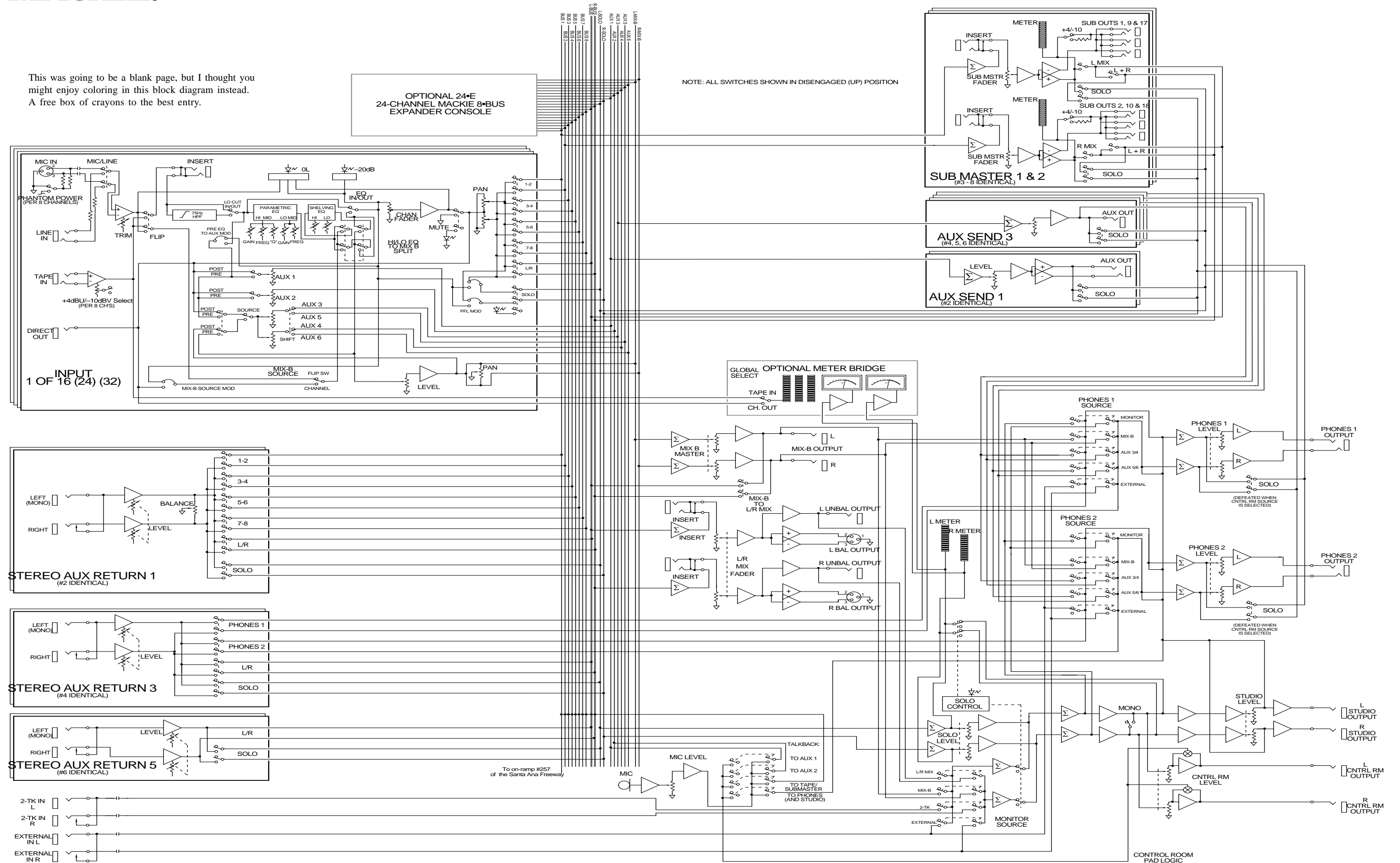
J11

SUB 1 OUT +	1	2	SUB 1 OUT -
SUB 1 OUT GND	3	4	SUB 2 OUT GND
SUB 2 OUT -	5	6	SUB 2 OUT +
SUB 3 OUT -	7	8	SUB 3 OUT +
SUB 3 OUT GND	9	10	SUB 4 OUT GND
SUB 4 OUT -	11	12	SUB 4 OUT +
SUB 5 OUT -	13	14	SUB 5 OUT +
SUB 5 OUT GND	15	16	SUB 6 OUT GND
SUB 6 OUT -	17	18	SUB 6 OUT +
SUB 7 OUT -	19	20	SUB 7 OUT +
SUB 7 OUT GND	21	22	SUB 8 OUT -
SUB 8 OUT GND	23	24	SUB 8 OUT GND
AGND	25	26	AGND
R OUT +	27	28	R OUT GND
R OUT -	29	30	AGND
L OUT GND	31	32	L OUT +
L OUT -	33	34	AGND

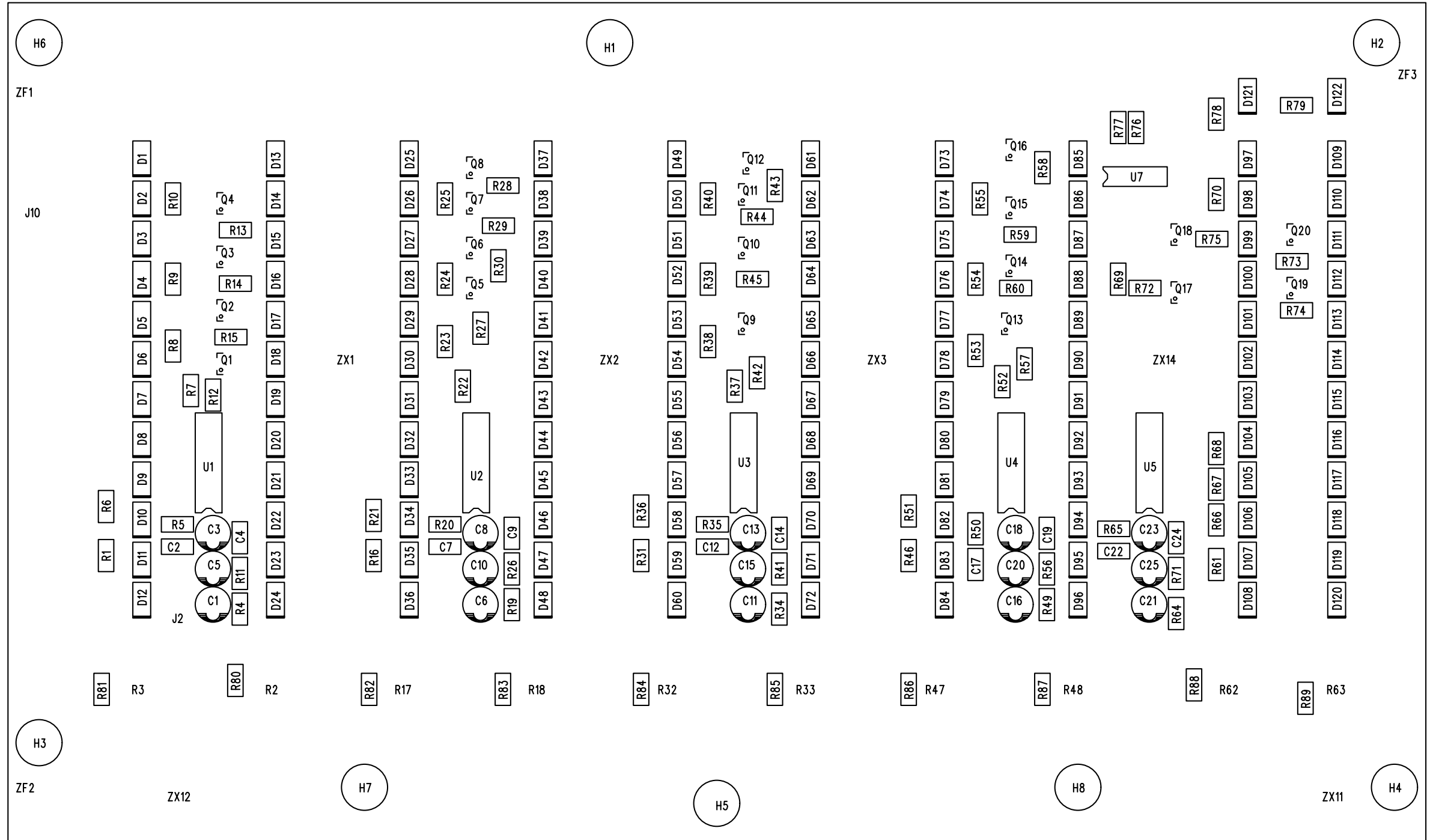
J15

DGND	1
+5V	2
+12V	3
+48V	4
+16V	5
AGND	6
-18V	7

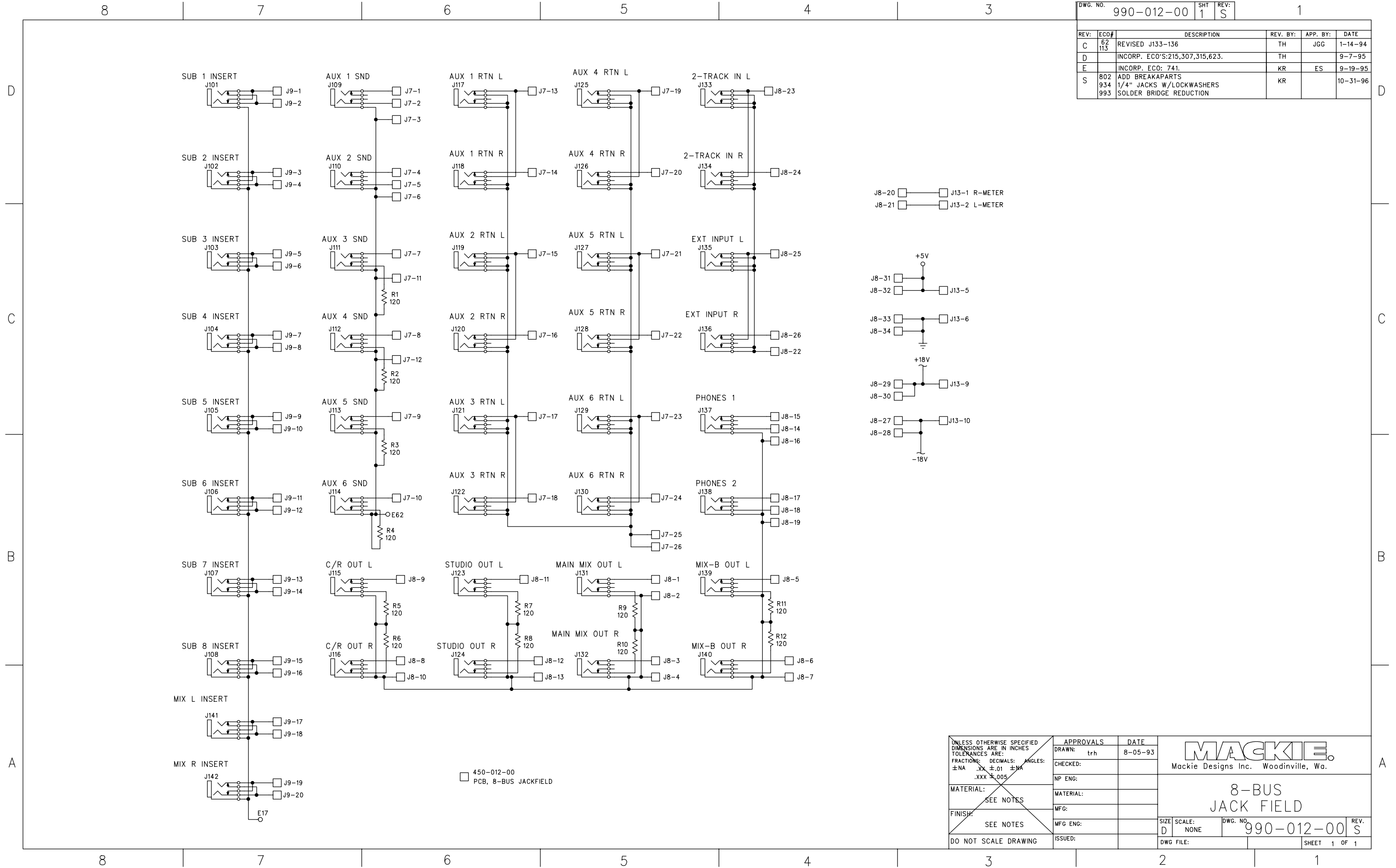
This was going to be a blank page, but I thought you might enjoy coloring in this block diagram instead. A free box of crayons to the best entry.



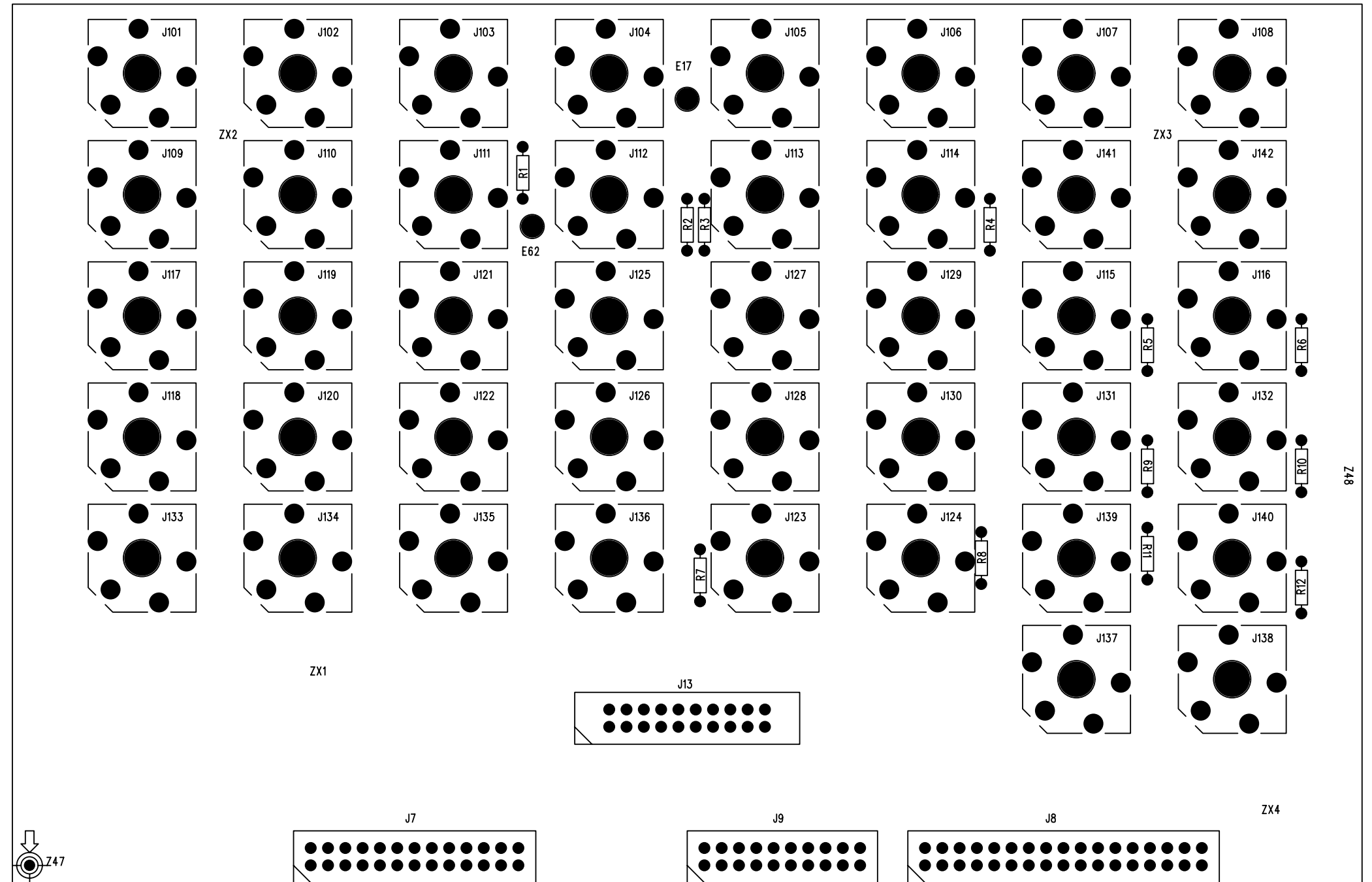
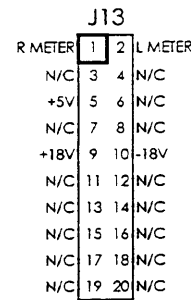
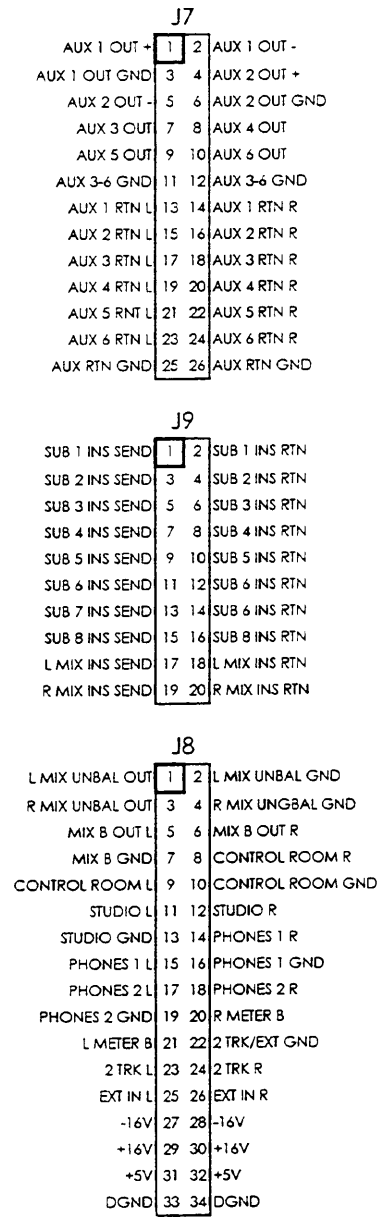
J10	
SUB 1 TO METER	1
SUB 2 TO METER	2
SUB 3 TO METER	3
SUB 4 TO METER	4
SUB 5 TO METER	5
SUB 6 TO METER	6
SUB 7 TO METER	7
SUB 8 TO METER	8
L TO METER	9
R TO METER	10
SUB METER MUTE	11
DGND	12
+5V	13
DGND	14



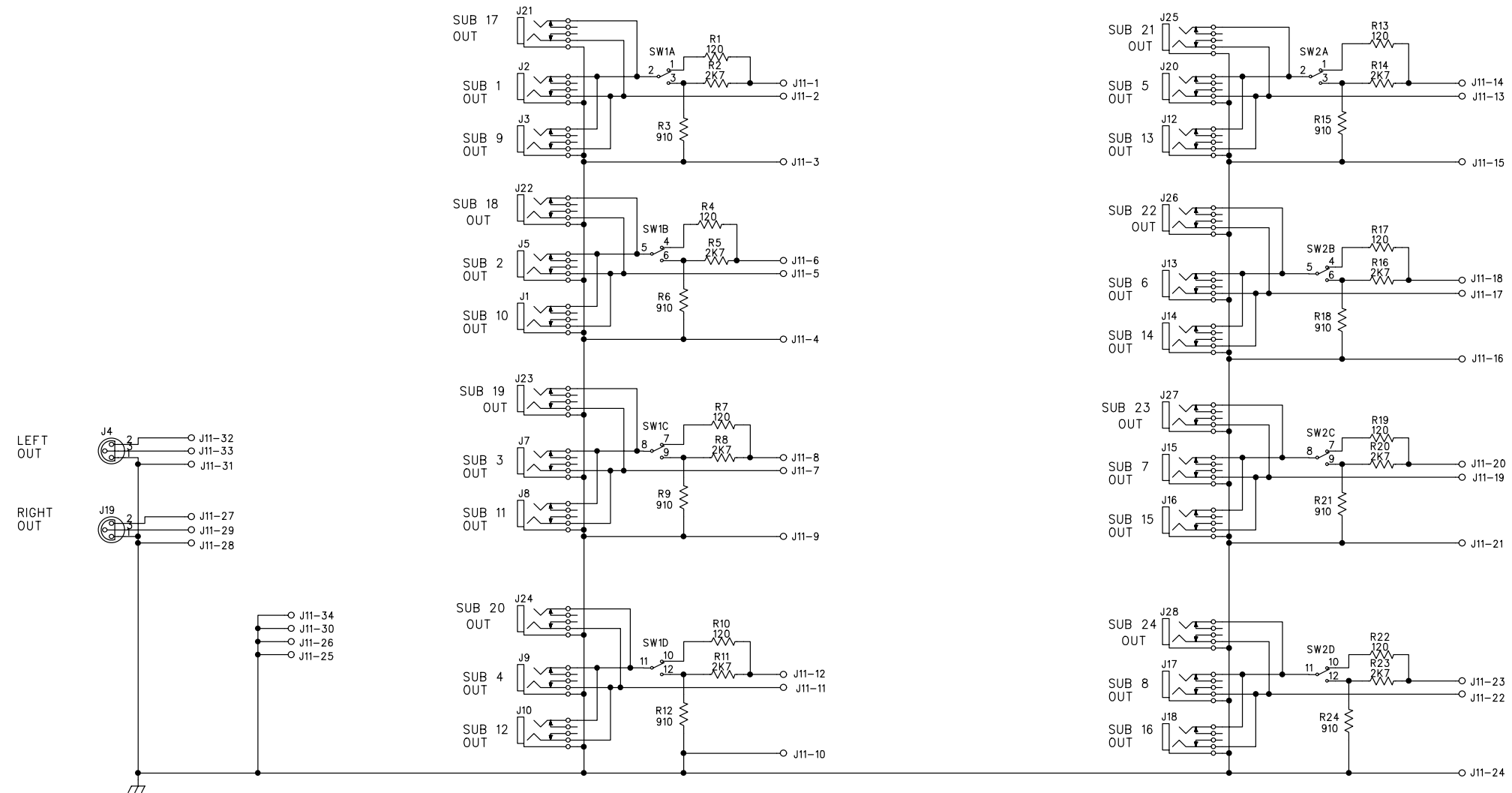
DWG. NO.	990-012-00	SHT	1	REV:	S	1
REV:	ECO#	DESCRIPTION	REV. BY:	APP. BY:	DATE	
C	62 113	REVISED J133-136	TH	JGG	1-14-94	
D		INCORP. ECO'S:215,307,315,623.	TH		9-7-95	
E		INCORP. ECO: 741.	KR	ES	9-19-95	
S	802 934 993	ADD BREAKAPARTS 1/4" JACKS W/LOCKWASHERS SOLDER BRIDGE REDUCTION	KR		10-31-96	



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ±NA .XX ±.01 ±NA .XXX ±.005	APPROVALS	DATE	Mackie Designs Inc. Woodinville, Wa.
	trh	8-05-93	
	CHECKED:		
	NP ENG:		
MATERIAL:	MATERIAL:		8-BUS JACK FIELD
SEE NOTES	MFG:		
FINISH:	MFG ENG:		SIZE: D
SEE NOTES	ISSUED:		SCALE: NONE
DO NOT SCALE DRAWING			DWG. NO. 990-012-00
			REV. S
			DWG. FILE:
			SHEET 1 OF 1



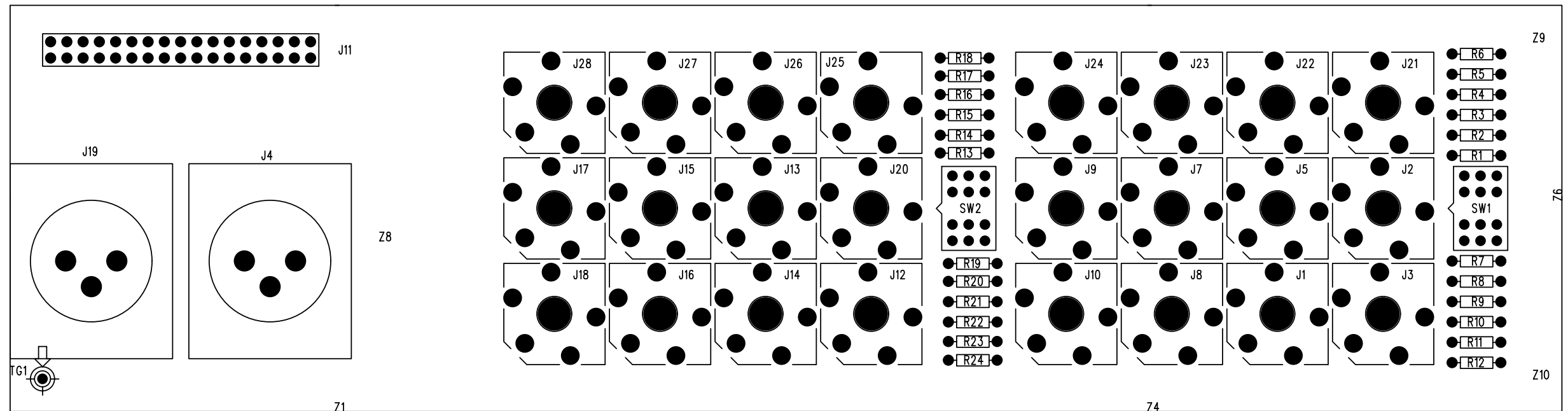
DWG. NO.	990-013-00	SHT	1	REV:	S	1
REV:	ECO#	DESCRIPTION	REV. BY:	APP. BY:	DATE	
B		INCOMP. ECO'S: 215,307,545.	KR	ES	9-6-95	
S	934	1/4" JACKS W/LOCKWASHER	KR		10-30-96	
	993	SOLDER BRIDGE REDUCTION				



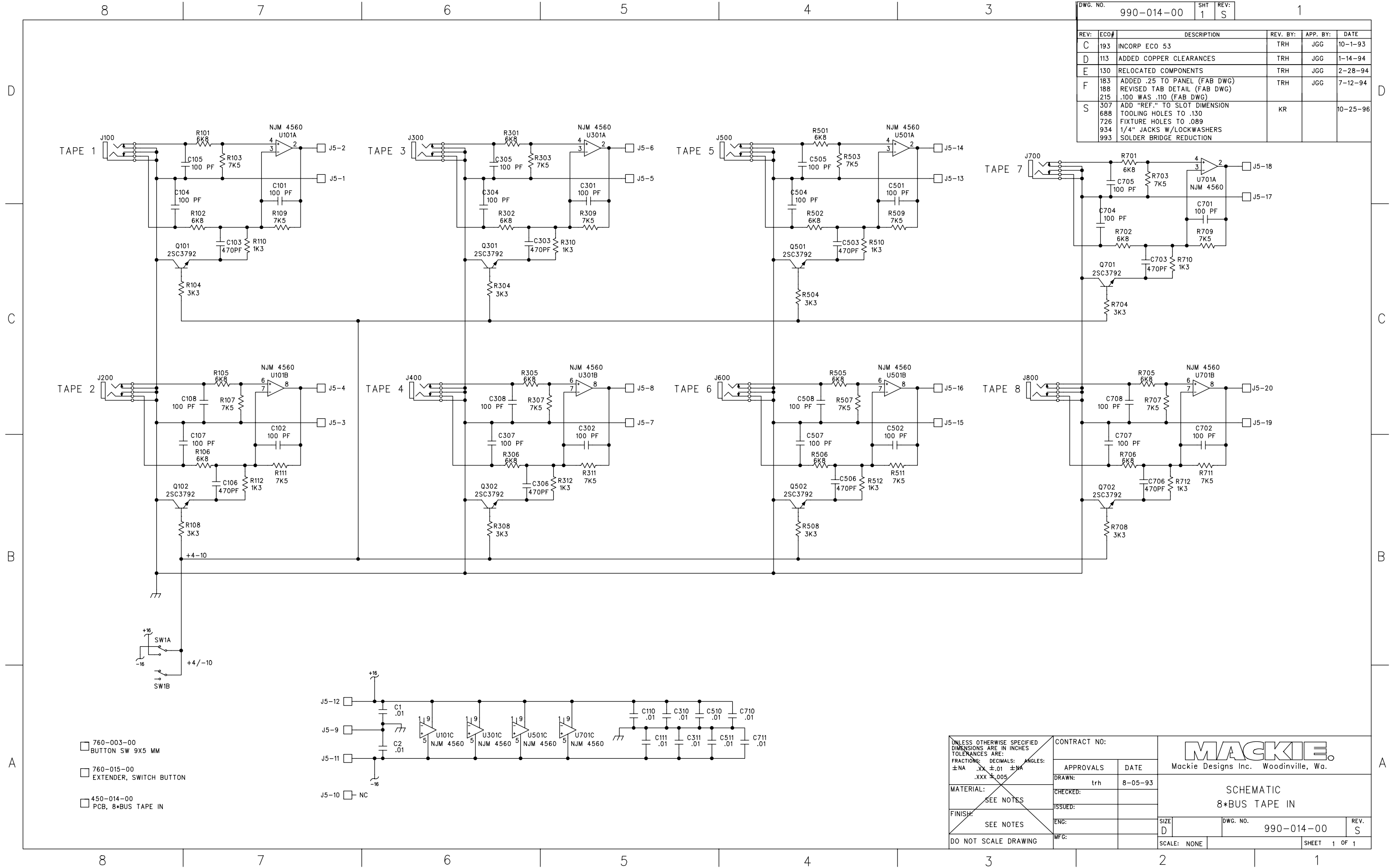
- 450-013-00
PCB, 8-BUS TAPE OUT
- 760-003-00
BUTTON SW 9X5 MM
- 760-003-00
BUTTON SW 9X5 MM
- 760-015-00
EXTENDER, SWITCH BUTTON
- 760-015-00
EXTENDER, SWITCH BUTTON

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ± .xx ± .xxx ±		CONTRACT NO:		MACKIE. Mackie Designs Inc. Woodinville, Wa.	
MATERIAL:		APPROVALS	DATE		
FINISH:		DRAWN: trh	6-23-93	SCHEMATIC 8-BUS TAPE OUT	
DO NOT SCALE DRAWING		CHECKED:	ISSUED:		
		ENG:		SIZE	DWG. NO. 990-013-00
		MFG:		SCALE:	REV. S
				SHEET 1 OF 1	

J11			
SUB 1 OUT +	1	2	SUB 1 OUT -
SUB 1 OUT GND	3	4	SUB 2 OUT GND
SUB 2 OUT -	5	6	SUB 2 OUT +
SUB 3 OUT -	7	8	SUB 3 OUT +
SUB 3 OUT GND	9	10	SUB 4 OUT GND
SUB 4 OUT -	11	12	SUB 4 OUT +
SUB 5 OUT -	13	14	SUB 5 OUT +
SUB 5 OUT GND	15	16	SUB 6 OUT GND
SUB 6 OUT -	17	18	SUB 6 OUT +
SUB 7 OUT -	19	20	SUB 7 OUT +
SUB 7 OUT GND	21	22	SUB 8 OUT -
SUB 8 OUT GND	23	24	SUB 8 OUT GND
AGND	25	26	AGND
R OUT +	27	28	R OUT GND
R OUT -	29	30	AGND
L OUT GND	31	32	L OUT +
L OUT -	33	34	AGND

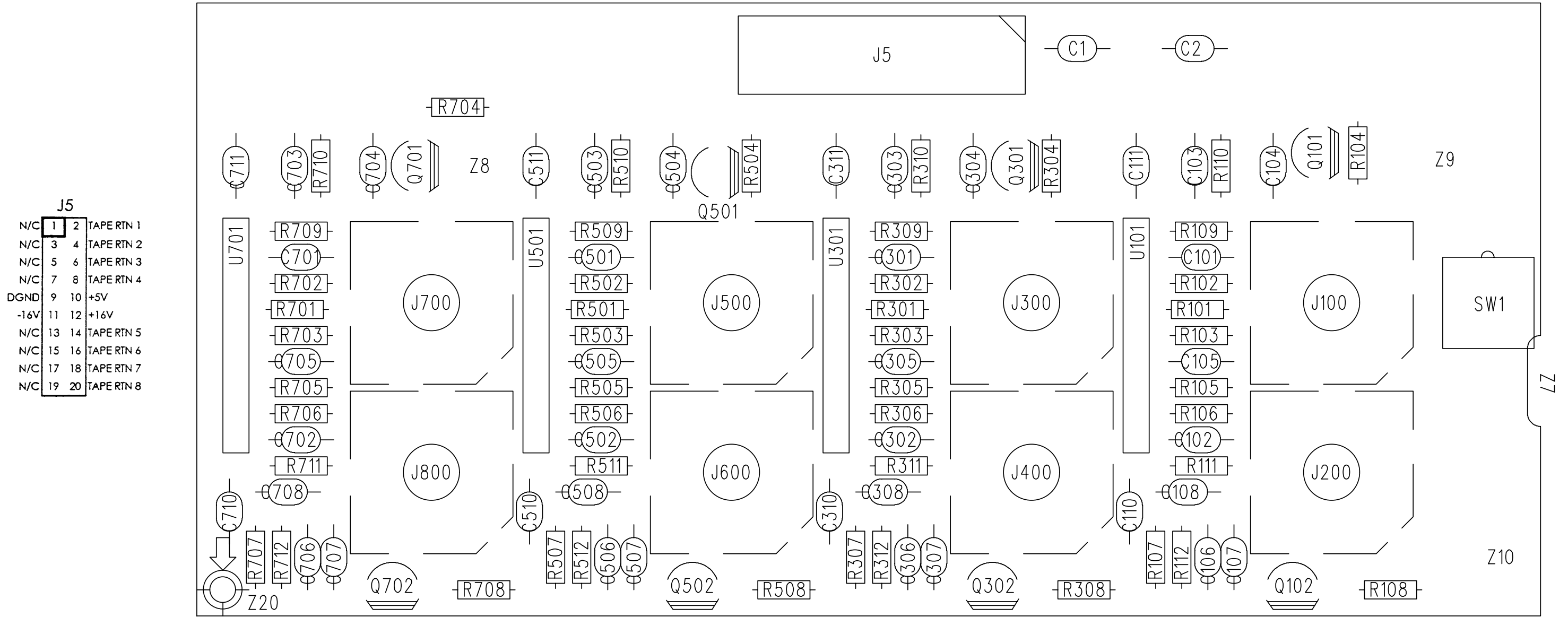


DWG. NO.	990-014-00	SHT	1	REV:	S	1
REV:	ECO#	DESCRIPTION	REV. BY:	APP. BY:	DATE	
C	193	INCORP ECO 53	TRH	JGG	10-1-93	
D	113	ADDED COPPER CLEARANCES	TRH	JGG	1-14-94	
E	130	RELOCATED COMPONENTS	TRH	JGG	2-28-94	
F	183	ADDED .25 TO PANEL (FAB DWG)	TRH	JGG	7-12-94	
	188	REVISED TAB DETAIL (FAB DWG)				
	215	.100 WAS .110 (FAB DWG)				
S	307	ADD "REF." TO SLOT DIMENSION	KR		10-25-96	
	688	TOOLING HOLES TO .130				
	726	FIXTURE HOLES TO .089				
	934	1/4" JACKS W/LOCKWASHERS				
	993	SOLDER BRIDGE REDUCTION				

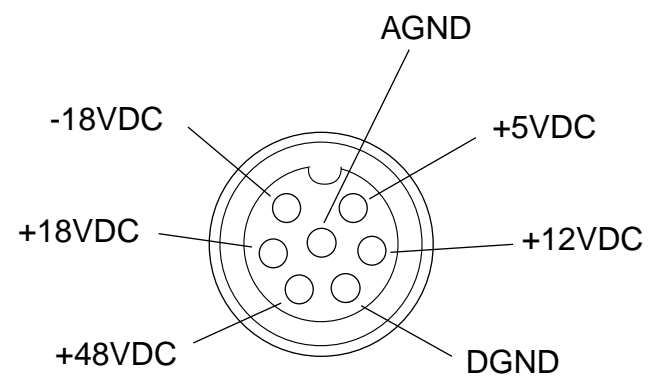
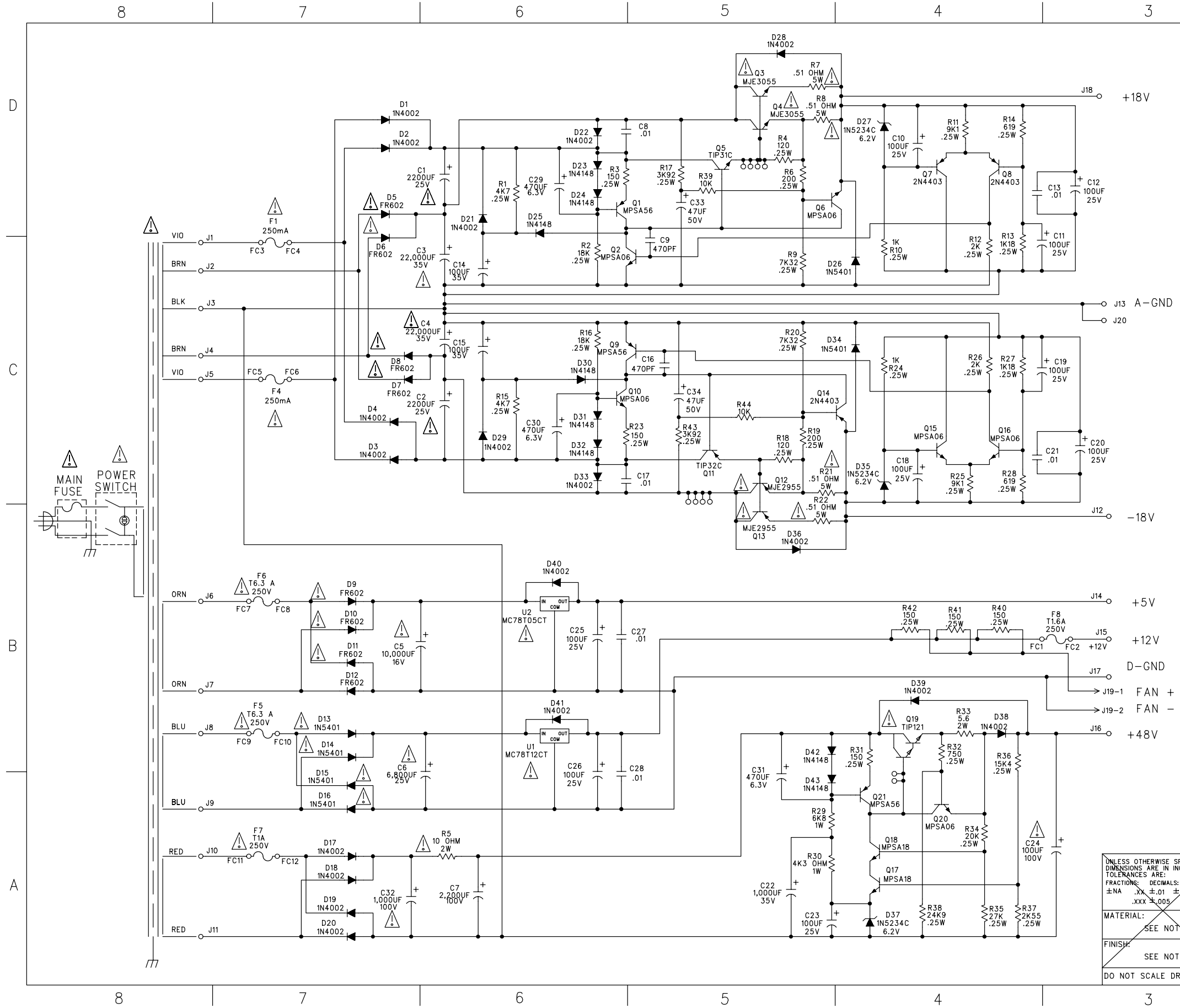


- 760-003-00
BUTTON SW 9X5 MM
- 760-015-00
EXTENDER, SWITCH BUTTON
- 450-014-00
PCB, 8-BUS TAPE IN

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ±.NA .XX ±.01 ±NA .XXX ±.005	CONTRACT NO:		MACKIE Mackie Designs Inc. Woodinville, Wa.		
	APPROVALS	DATE			
	MATERIAL:	CHECKED: trh	8-05-93	SCHEMATIC 8-BUS TAPE IN	
	FINISH:	ISSUED:			
DO NOT SCALE DRAWING	ENG:		SIZE D	DWG. NO. 990-014-00	
	MFG:		SCALE: NONE	REV. S	
				SHEET 1 OF 1	



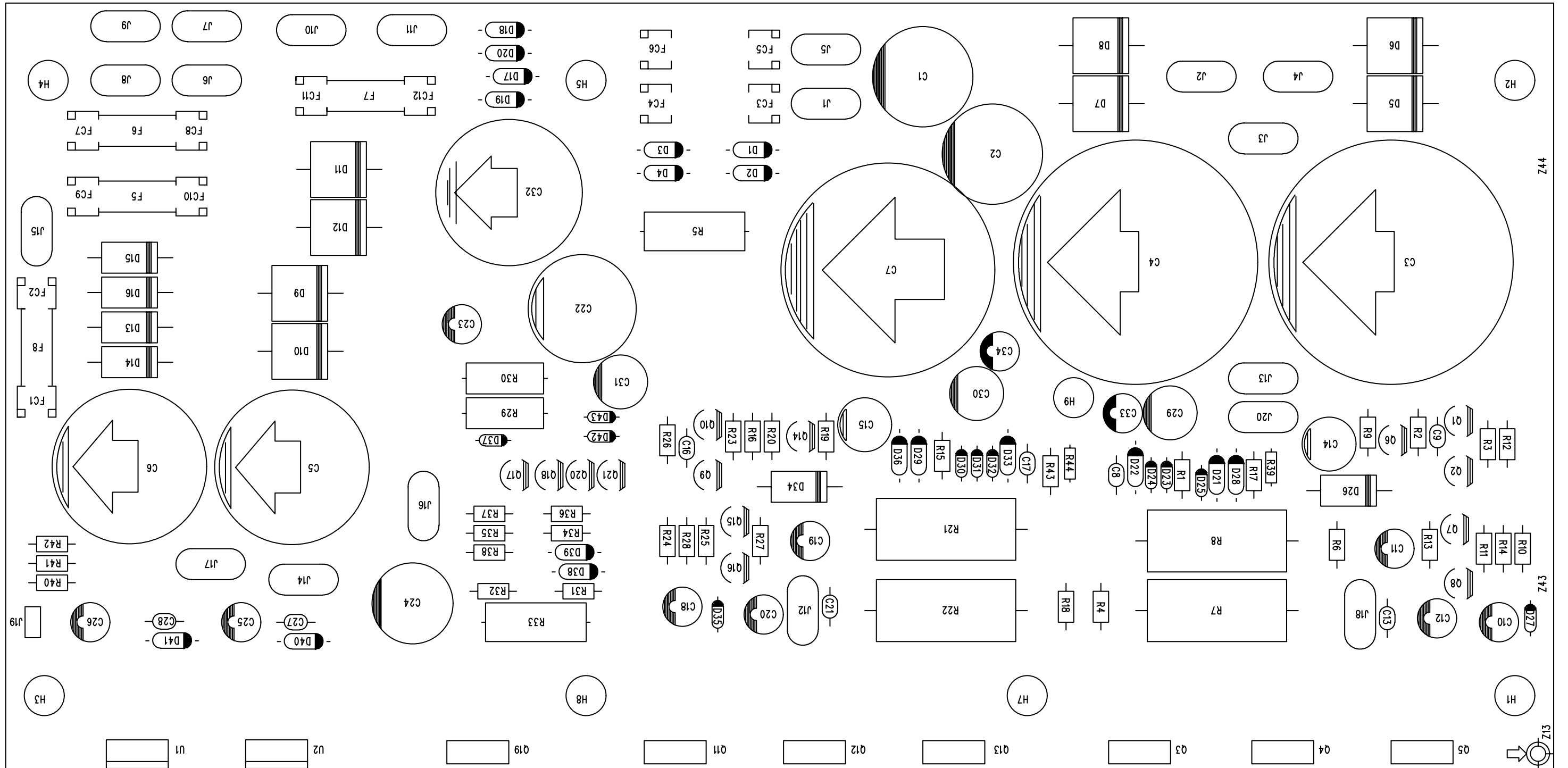
DWG. NO.	990-015-00	SHT	1	REV:	S
REV:	ECO#	DESCRIPTION	REV. BY:	APP. BY:	DATE
B		RELEASED TO PROD.			7-6-93
C		INCRP ECO 37	TRH	JC	8-17-93
D	142	SWAPPED J13 WITH J17.	TRH	JGG	4-12-94
E	187 249 289 295 328	ADDED CLEARANCE ON PCB REVISED BOARD DIMS ADDED SHORT CIRCUIT PROTECTION ADDED FUSE FOR FAN ADDED SCORING TO PCB	TRH		9-28-94
F		CHANGED F8 FROM 1A TO 1.6A CHANGED R43,R17 FROM 1/4 W TO 1/8 W MOVED C33 ON PCB	KR	JGG	11-3-94
G		INCORPORATED ECO'S: 551,580,586, AND 657.	KR	ES	7-21-95
H	688 697 993	TOOLING HOLES TO .130 ALL 6A1 DIODES TO FR602 SOLDER BRIDGE REDUCTION	KR		9-12-96
S	307 631 965 1056	ADDED "REF." TO SLOT DIMENSION CONSOLIDATION, ALL 4401'S TO A06'S DELETE F1 & F4 FROM B.O.M. 100/25V LYTCIS TO AUTO INSERTION	KR		10-14-96



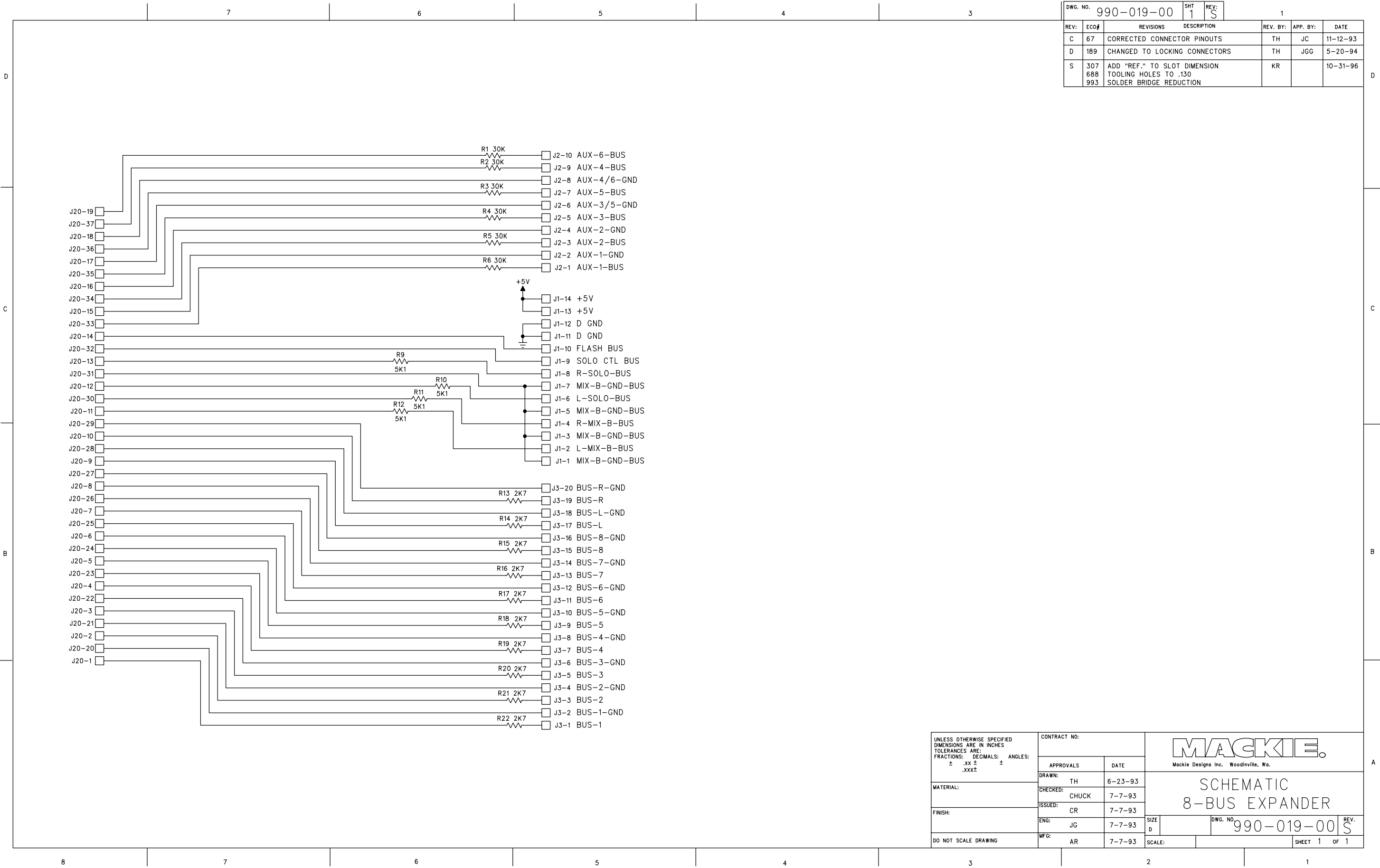
BROWN = DGND
 VIOLET = +5VDC
 ORANGE = +12VDC
 YELLOW = +48VDC
 RED = +18VDC
 BLACK = AGND
 BLUE = -18VDC

FOR 110V OPERATION USE T5 AMP MAIN FUSE
 FOR 220V OPERATION USE T2.5 AMP MAIN FUSE

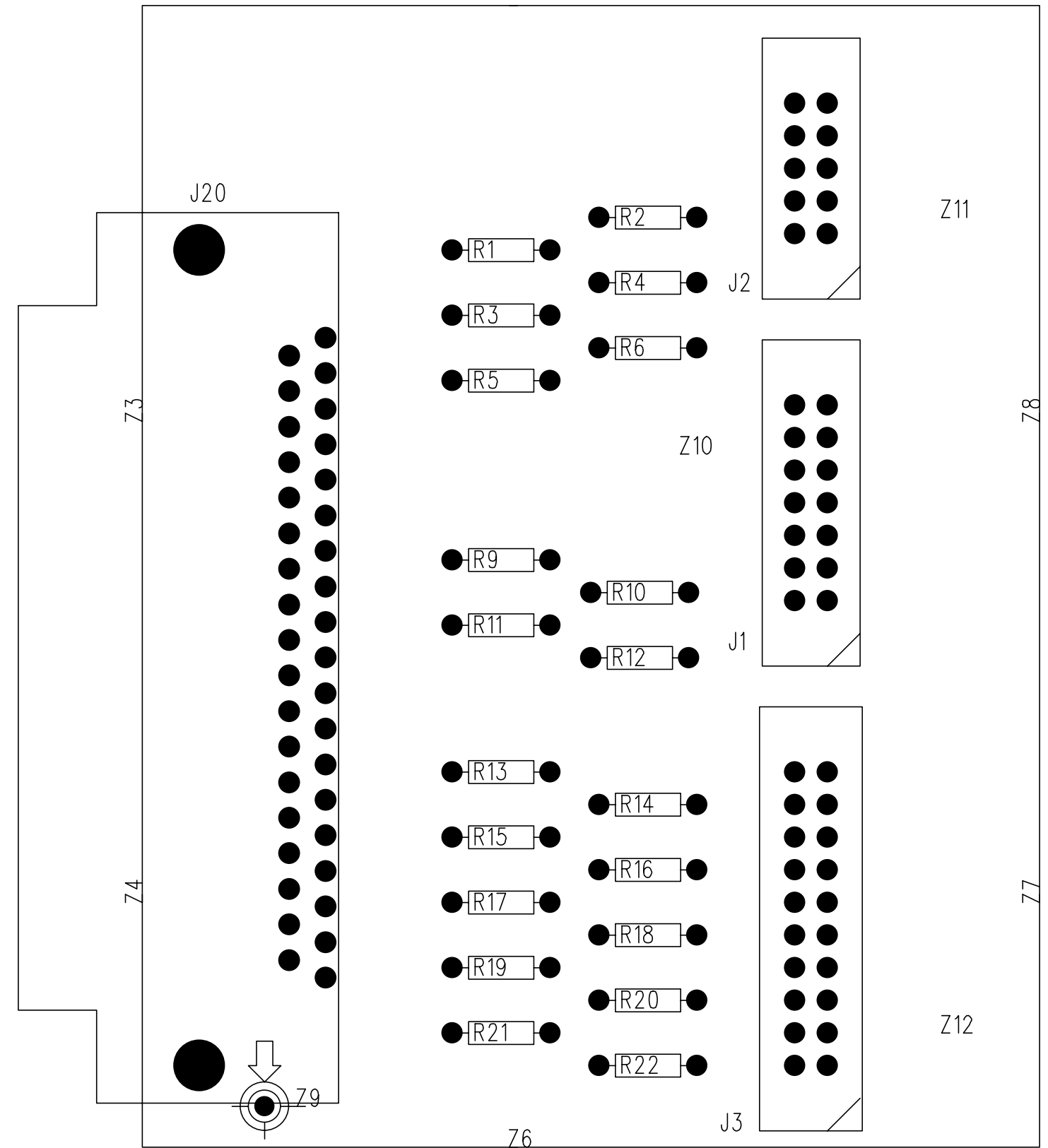
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ±.NA .XX ±.01 ±.NA .XXX ±.005	CONTRACT NO:		MACKIE Mackie Designs Inc. Woodinville, Wa.
	APPROVALS	DATE	
	DRAWN: trh	7-01-93	
	CHECKED:		
MATERIAL: SEE NOTES	ISSUED:		SCHEMATIC 8•BUS POWER SUPPLY
FINISH: SEE NOTES	ENG:		
DO NOT SCALE DRAWING	MFG:		
	SIZE D	DWG. NO. 990-015-00	REV. S
	SCALE: NONE		SHEET 1 OF 1



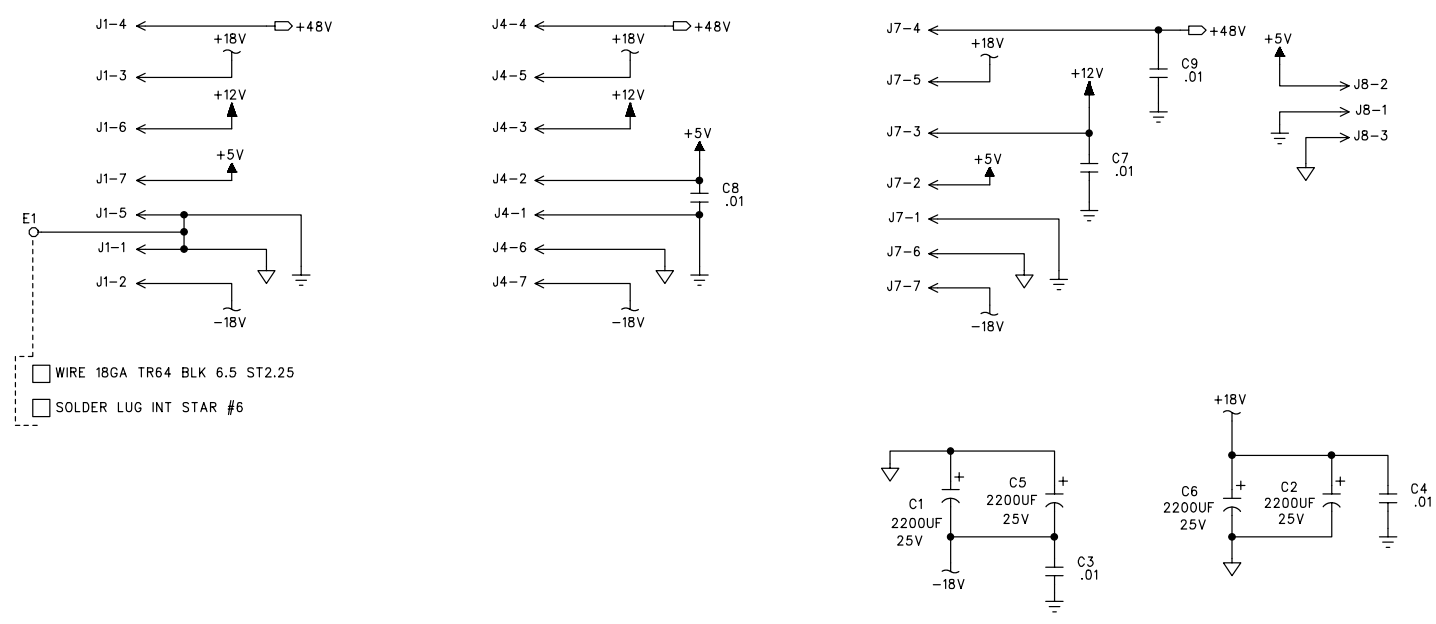
DWG. NO:	990-019-00	SHT	1	REV:	S	1
REV:	ECO#	REVISIONS	DESCRIPTION	REV. BY:	APP. BY:	DATE
C	67	CORRECTED CONNECTOR PINOUTS		TH	JC	11-12-93
D	189	CHANGED TO LOCKING CONNECTORS		TH	JGG	5-20-94
S	307	ADD "REF." TO SLOT DIMENSION		KR		10-31-96
	688	TOOLING HOLES TO .130				
	993	SOLDER BRIDGE REDUCTION				



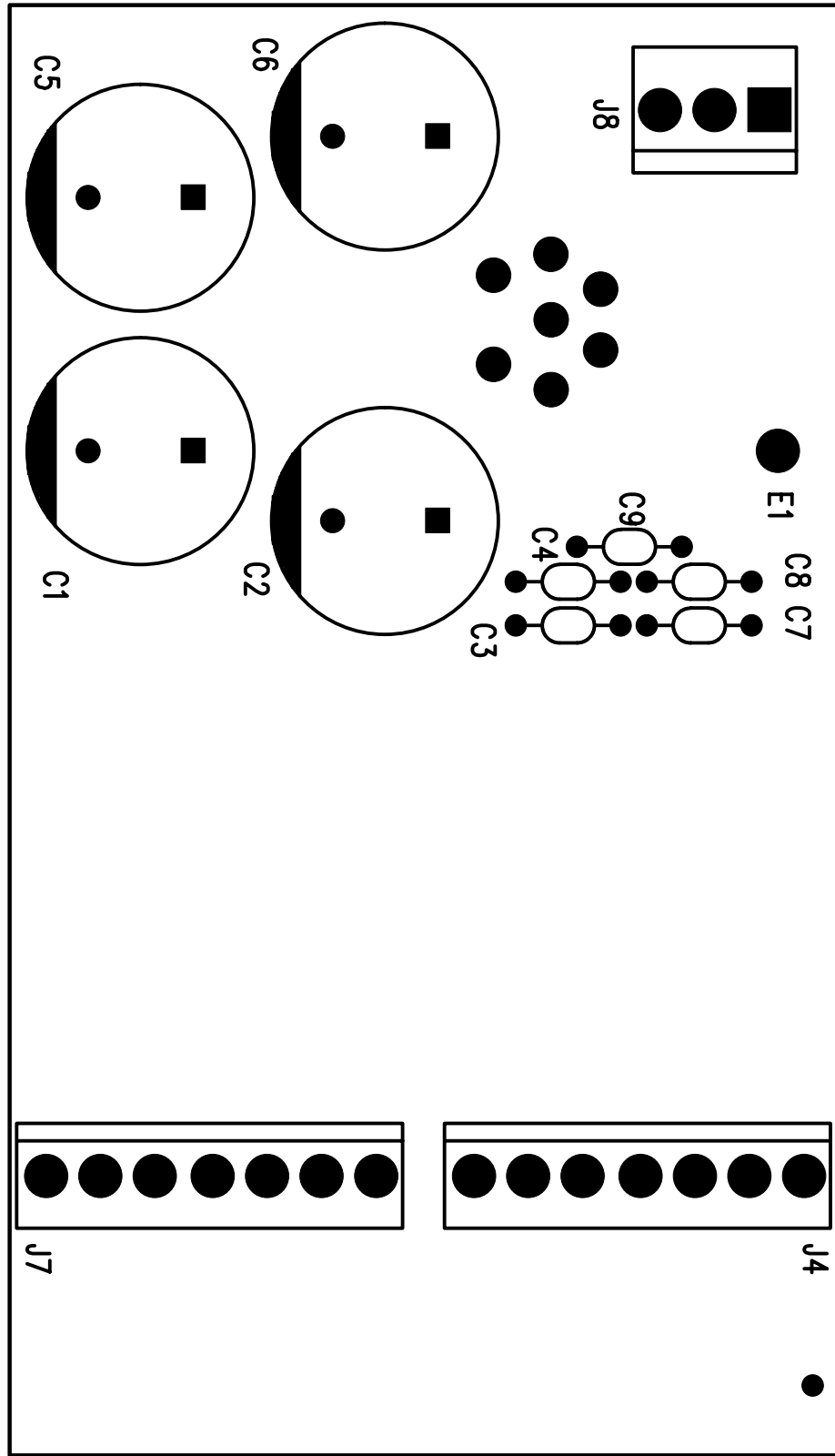
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ± .XX ± .XXX ±	CONTRACT NO:		MACKIE. Mackie Designs Inc. Woodinville, Wa.
	APPROVALS	DATE	
MATERIAL:	DRAWN:	TH	6-23-93
	CHECKED:	CHUCK	7-7-93
FINISH:	ISSUED:	CR	7-7-93
	ENG:	JG	7-7-93
DO NOT SCALE DRAWING	MFG:	AR	7-7-93
SCALE:			DWG. NO: 990-019-00 REV. S
SHEET 1 OF 1			



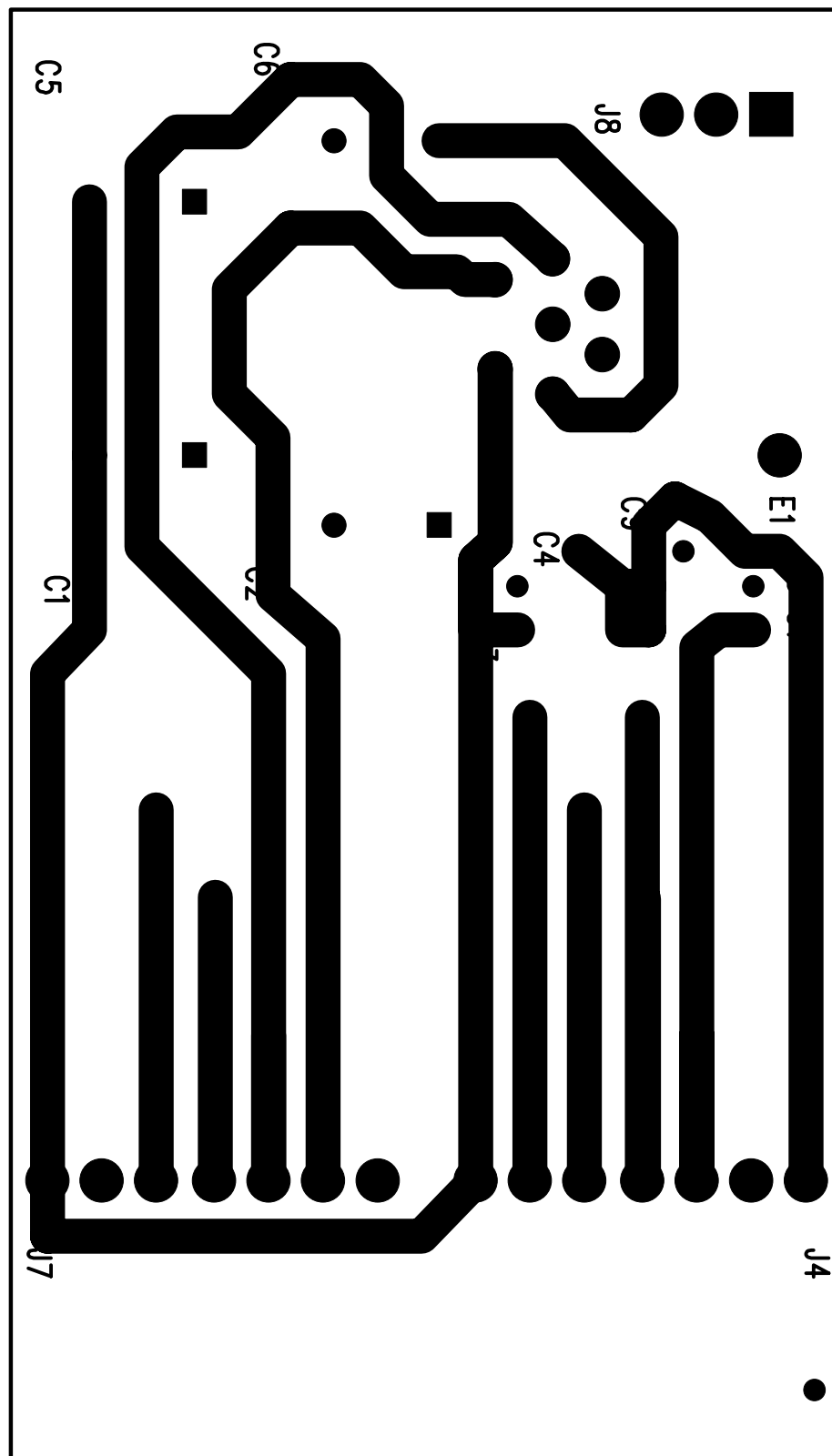
DWG. NO.	990-020-00	SHT	1	REV.	D	1
REVISIONS						
ECCO:	REV:	DESCRIPTION			DATE	APPROVED
100	MD	INCRP PCR 100			12-14-93	TRH
307		ADD REF TO SLOT DIM				
384		BOM CORRECTIONS				
629		CHG C9 FROM 25V TO 50V				
688		CHG TOOLING HOLE FROM .128 TO .130				
969		DELETED J2,J3,J5,J6 HEADERS				



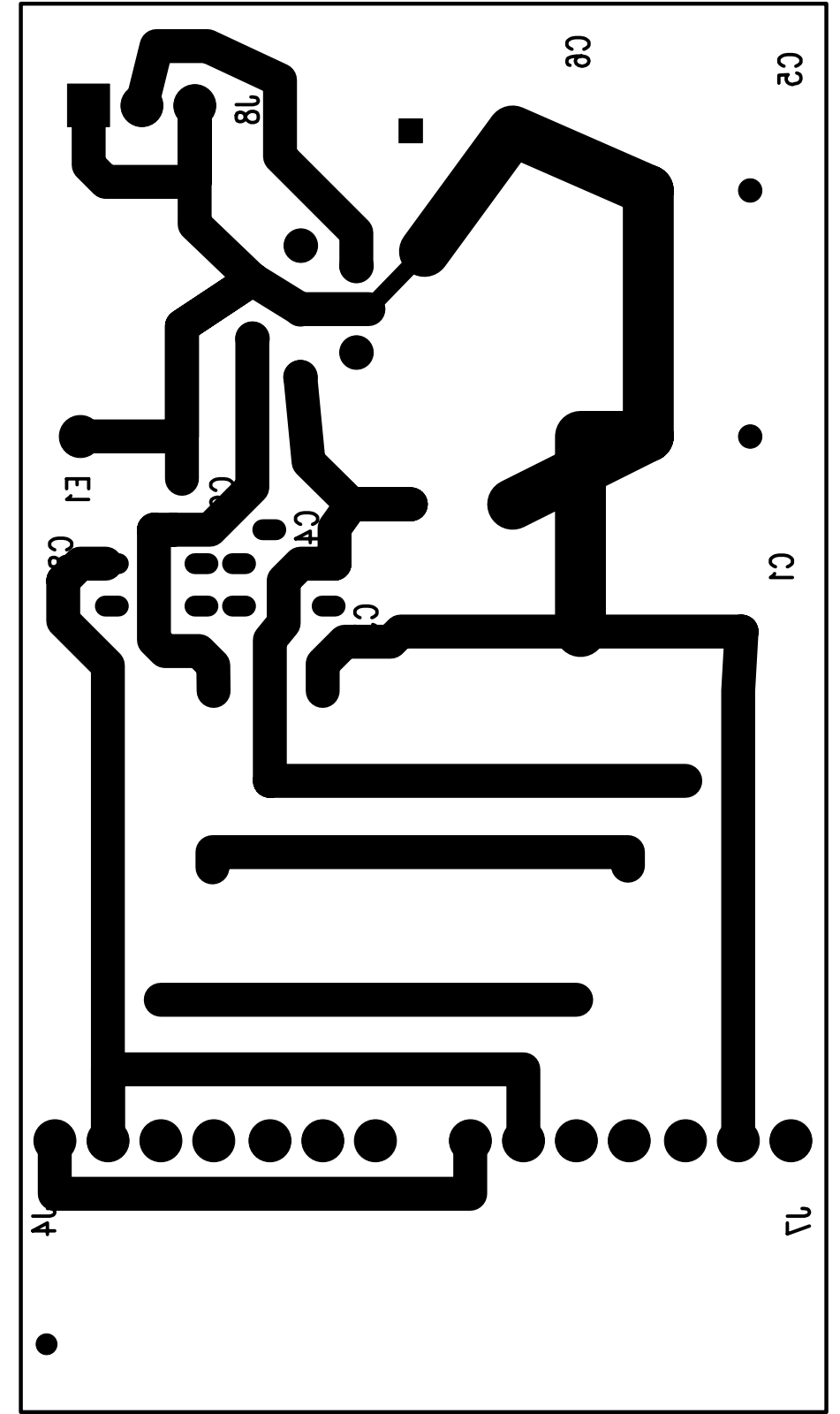
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ± .xx ± .xxx ±	CONTRACT NO:		MACKIE. Mackie Designs Inc. Woodinville, Wa.	
	APPROVALS	DATE		
	MATERIAL:	DRAWN: trh	8-05-93	8-BUS POWER DISTRIBUTION
	FINISH:	CHECKED:	ISSUED:	
DO NOT SCALE DRAWING	ENG:	MFG:	SIZE: D DWG. NO. 990-020-00 REV. C SCALE: NONE SHEET 1 OF 1	



TOP

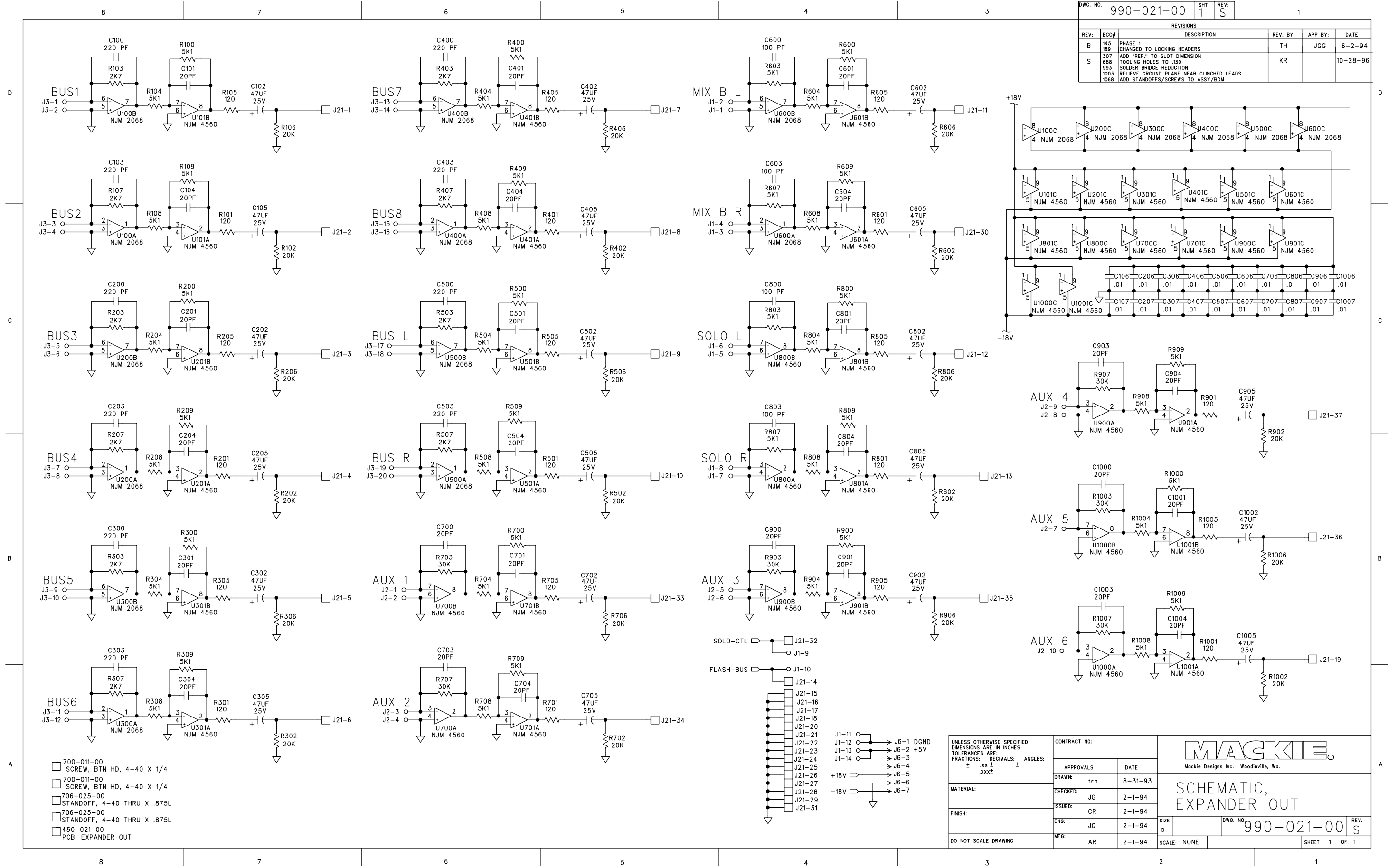


TOP TRACES

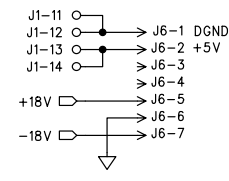


BOTTOM TRACES

DWG. NO.	990-021-00	SHT	1	REV:	S
REVISIONS					
REV.	ECO#	DESCRIPTION	REV. BY:	APP BY:	DATE
B	145	PHASE 1	TH	JGG	6-2-94
	188	CHANGED TO LOCKING HEADERS			
S	307	ADD "REF." TO SLOT DIMENSION	KR		10-28-96
	688	TOOLING HOLES TO .130			
	993	SOLDER BRIDGE REDUCTION			
	1003	RELIEVE GROUND PLANE NEAR CLINCHED LEADS			
	1068	ADD STANDOFFS/SCREWS TO ASSY/BDM			



- 700-011-00 SCREW, BTN HD, 4-40 X 1/4
- 700-011-00 SCREW, BTN HD, 4-40 X 1/4
- 706-025-00 STANDOFF, 4-40 THRU X .875L
- 706-025-00 STANDOFF, 4-40 THRU X .875L
- 450-021-00 PCB, EXPANDER OUT



UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS: DECIMALS: ANGLES:
± .xx ± .xxx ±

MATERIAL:

FINISH:

DO NOT SCALE DRAWING

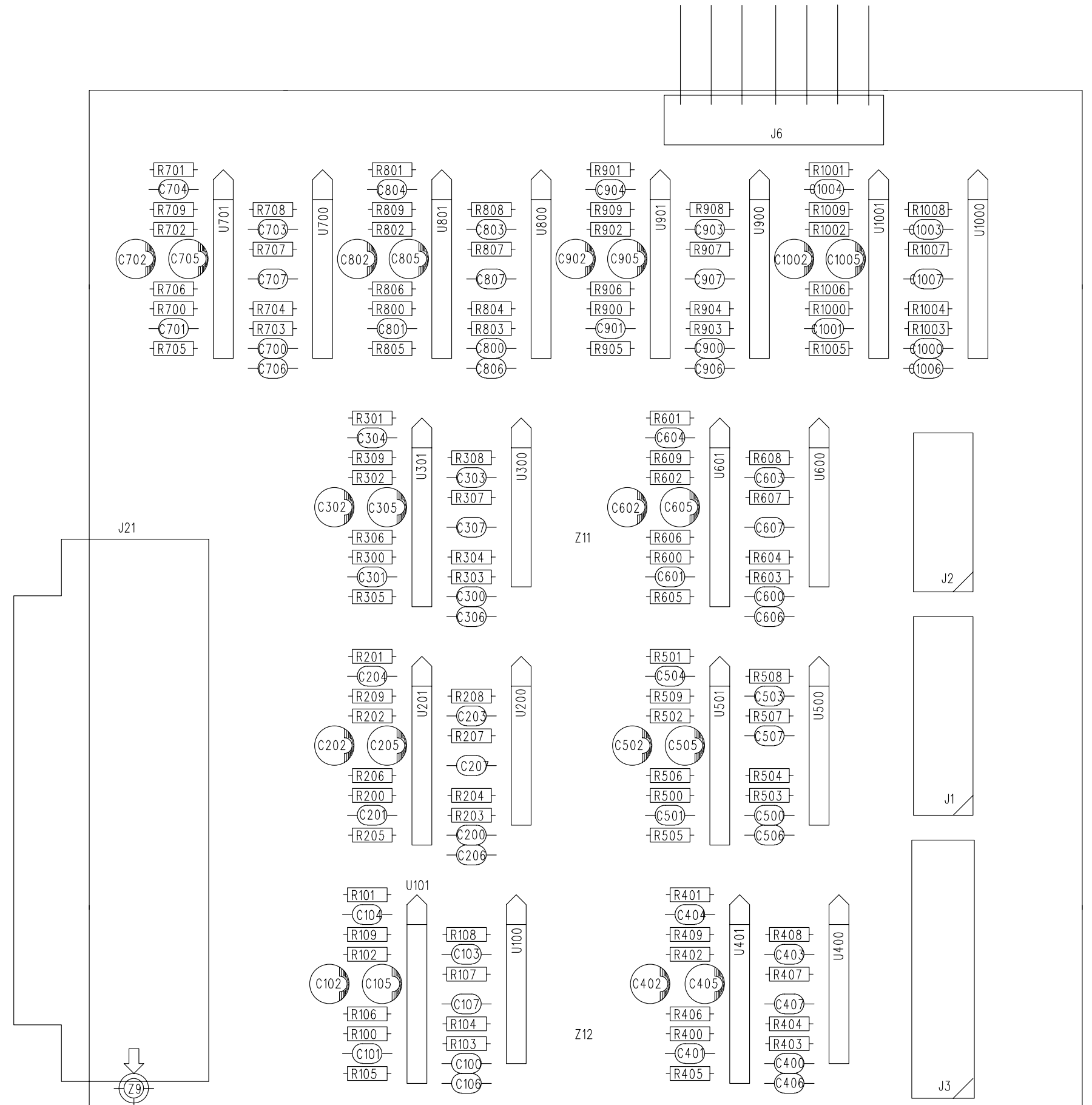
CONTRACT NO:	
APPROVALS	DATE
DRAWN: trh	8-31-93
CHECKED: JG	2-1-94
ISSUED: CR	2-1-94
ENG: JG	2-1-94
MFG: AR	2-1-94

MACKIE.
Mackie Designs Inc. Woodville, Wa.

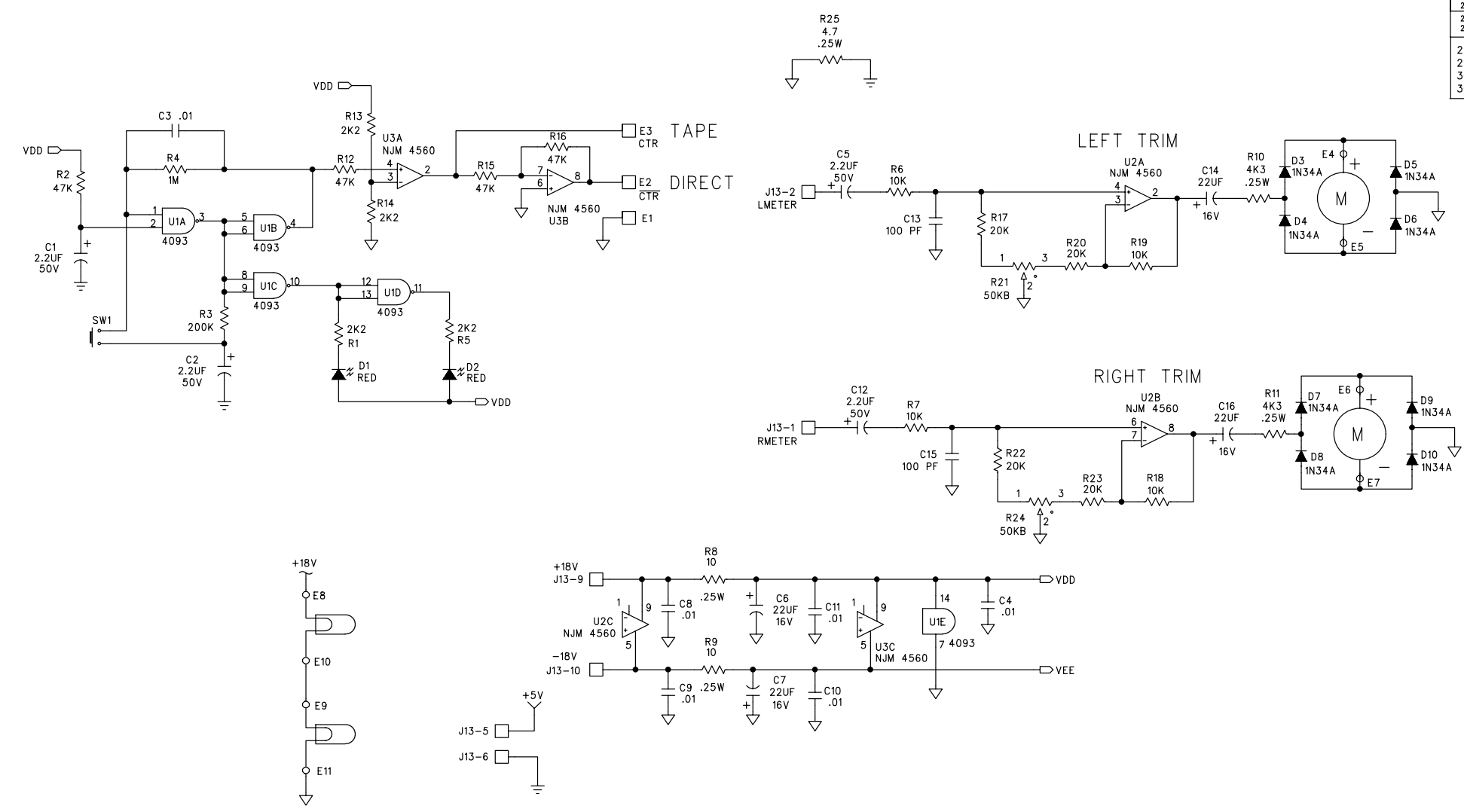
SCHEMATIC, EXPANDER OUT

SIZE: D DWG. NO. 990-021-00 REV. S

SCALE: NONE SHEET 1 OF 1

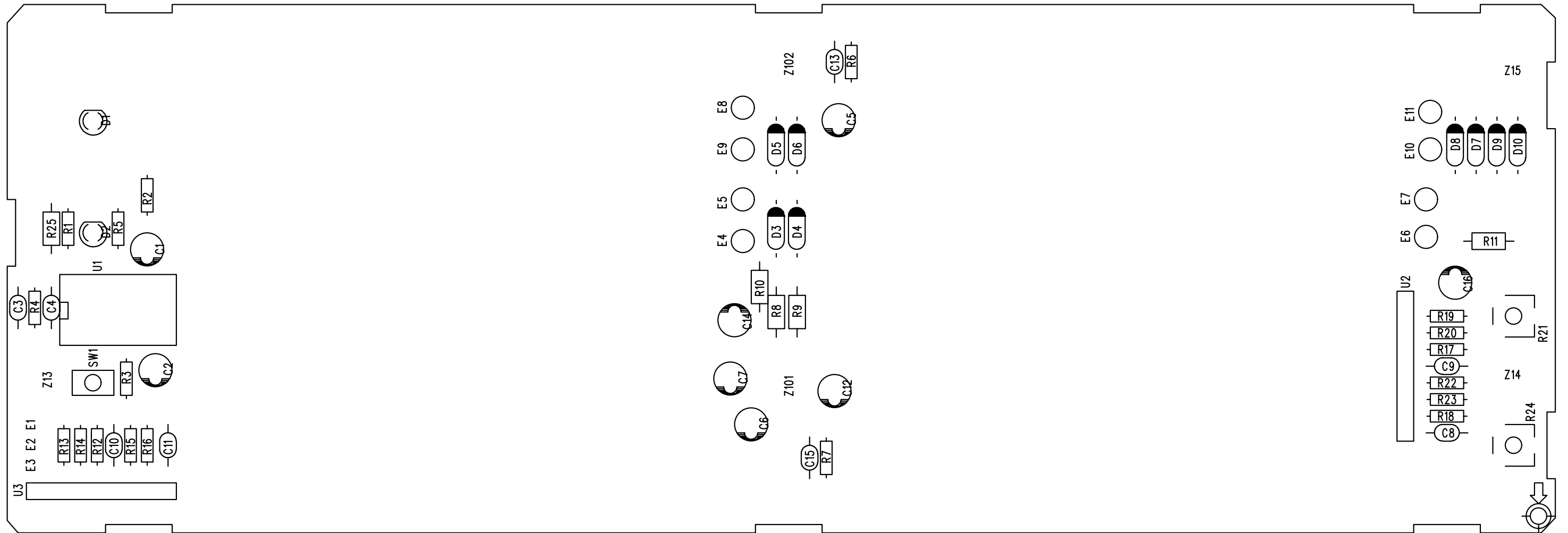


DWG. NO.	990-022-00	SHT	1	REV:	H
ECO#	REV:	DESCRIPTION	REV. BY:	APP. BY:	DATE
149	C	PCB DIM REVISION	TH	JG	3-14-94
145	D	PHASE 1 ; MISC CHANGES	TH		4-14-94
192	E	ROTATED DATA BASE ADDED REFLECTOR TO BOM ADDED TRIM CKT	TH		6-2-94
232	F	ADDED REFLECTOR & HOT GLUE REVISED TRIM CKT	TH		8-1-94
237	G	RELOCATED METERS REVISED WIRES	TH	JG LM	8-23-94
259	H	ADDED R25 TIGHTENED TOLERANCES R10,R11 WERE 4K3 1/BW ADDED WIRE COLORS	TRH		9-7-94

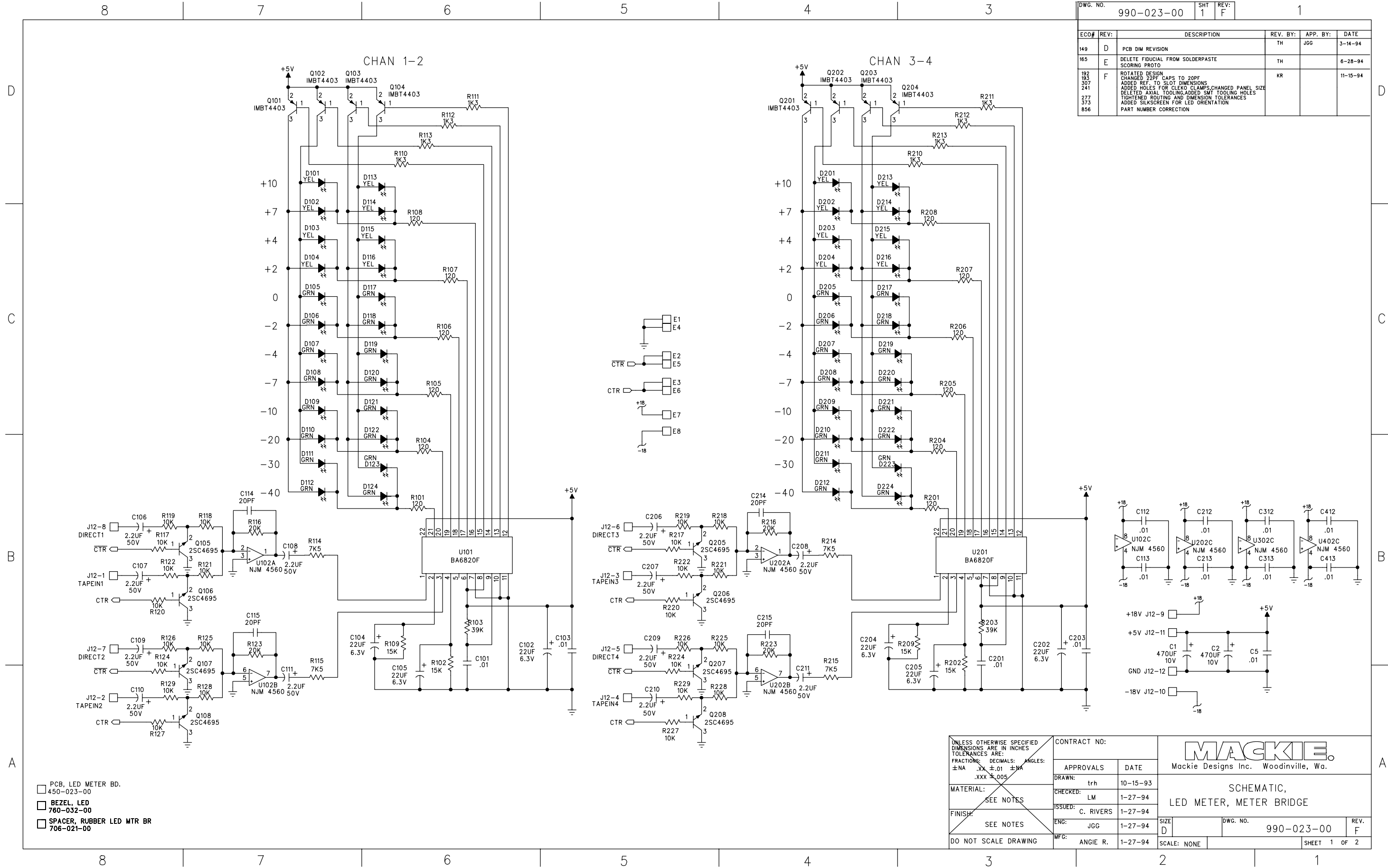


- 720-004-00 TAPE,DS.,125 X .75W, NEO
- 609-002-00 WIRE, 26 AWG BLK 3 IN
- 609-001-00 WIRE, 26 AWG RED 3.5 IN
- 706-020-00 SPACER, LED .160 THRU
- 770-002-00 METER, YS-475
- 450-022-00 PCB, ANALOG METER BD
- 706-030-00 STANDOFF, SWAGE 4-40
- 609-004-00 WIRE, 26 AWG BLUE 4.5 IN ST2 .25
- 780-010-00 REFLECTOR, VU METER
- 550-128-00 VU PLATE
- 700-011-00 SCREW, BTN HD 4-40X1/4
- 609-003-00 WIRE, 26 AWG GRN 4 IN ST2 .25

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: .XX ±.01 ±.01 DECIMALS: .XXX ±.005 ANGLES: ±.1°	CONTRACT NO:		MACKIE Mackie Designs Inc. Woodinville, Wa.	
	APPROVALS	DATE		
	MATERIAL:	CHECKED:	ISSUED:	ANALOG METER, METER BRIDGE
	FINISH:	ENG:	MFG:	
DO NOT SCALE DRAWING	CR FOR JG	4-14-94	SIZE D	DWG. NO. 990-022-00
			SCALE: NONE	SHEET 1 OF 1



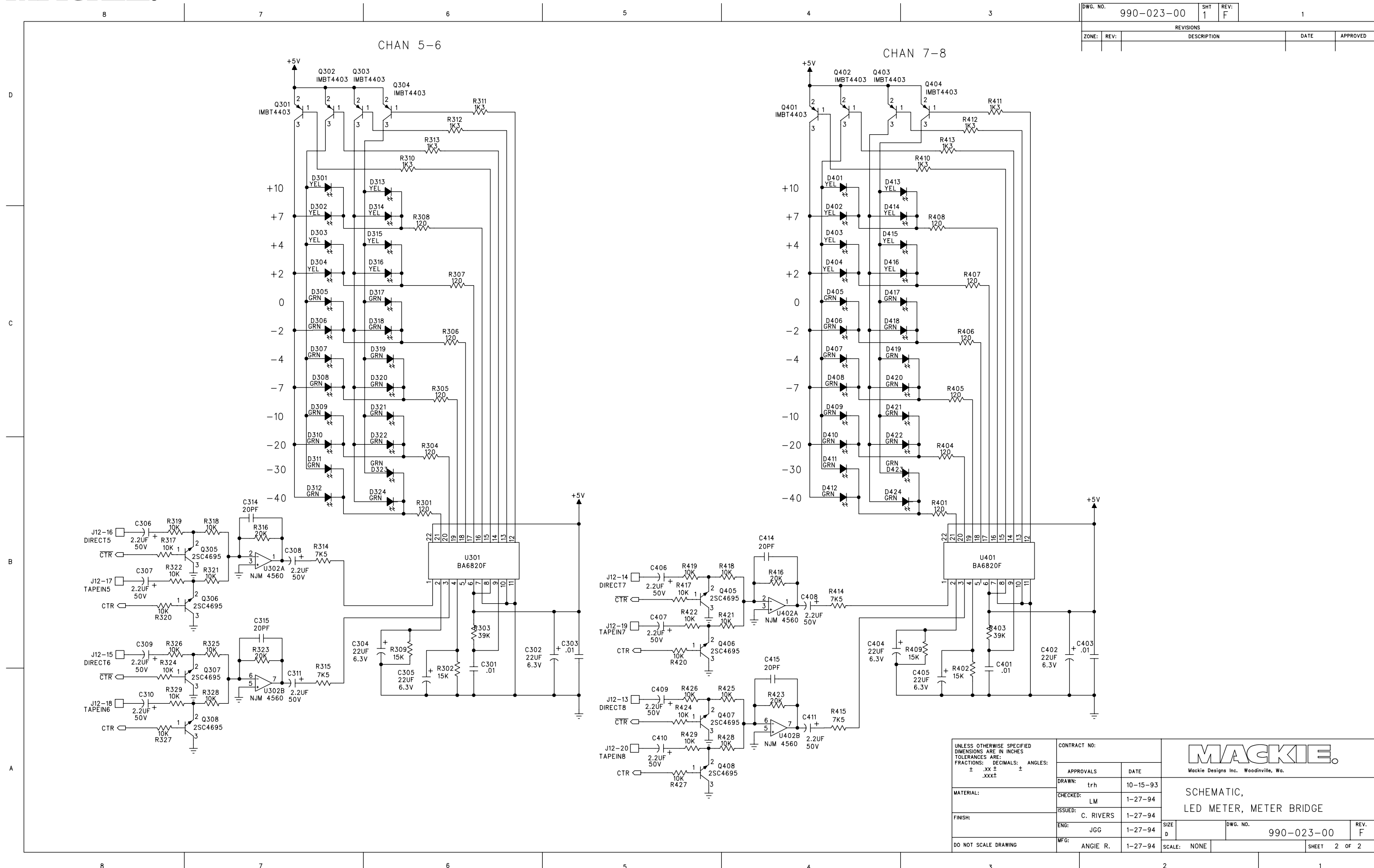
DWG. NO.	990-023-00	SHT	1	REV:	F	1
ECO#	REV:	DESCRIPTION	REV. BY:	APP. BY:	DATE	
149	D	PCB DIM REVISION	TH	JGG	3-14-94	
185	E	DELETE FIDUCIAL FROM SOLDERPASTE SCORING PRGTO	TH		6-28-94	
192	F	ROTATED DESIGN	KR		11-15-94	
193		CHANGED 22PF CAPS TO 20PF				
307		ADDED REF. TO SLOT DIMENSIONS				
241		ADDED HOLES FOR CLEKO CLAMPS, CHANGED PANEL SIZE				
277		DELETED AXIAL TOOLING, ADDED SMT TOOLING HOLES				
373		TIGHTENED ROUTING AND DIMENSION TOLERANCES				
856		ADDED SILKSCREEN FOR LED ORIENTATION				
		PART NUMBER CORRECTION				



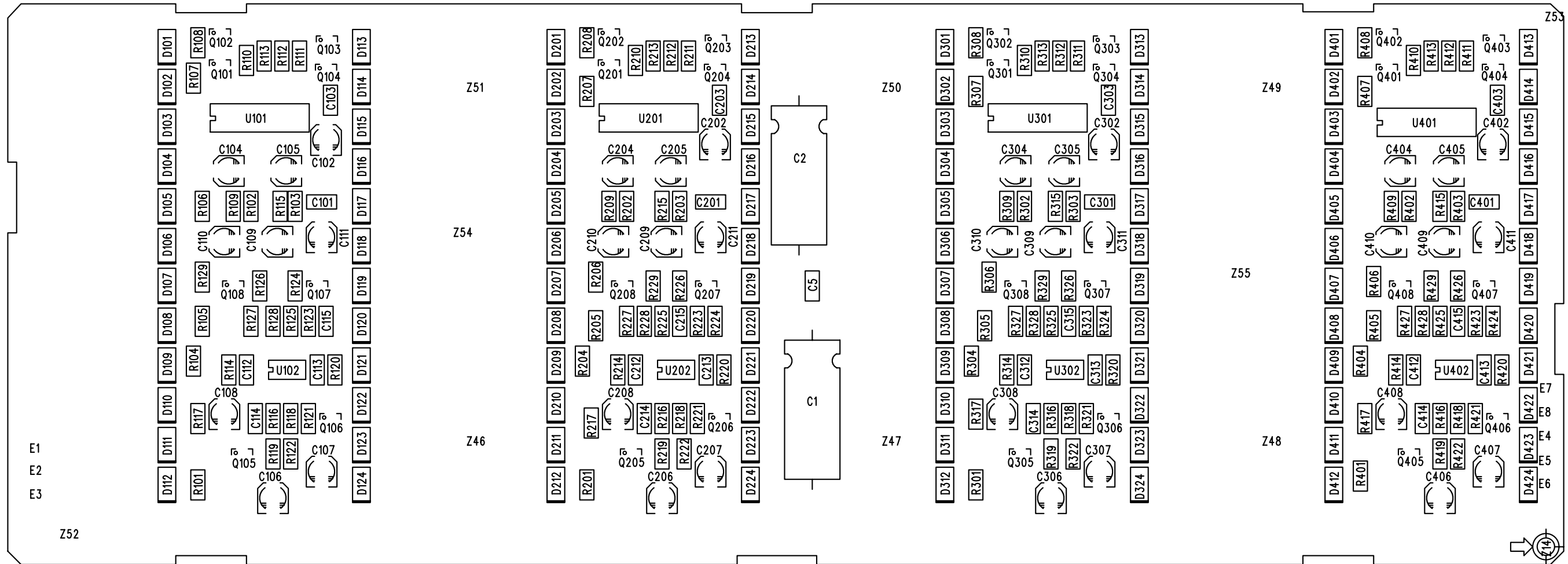
- PCB, LED METER BD.
450-023-00
- BEZEL, LED
760-032-00
- SPACER, RUBBER LED MTR BR
706-021-00

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: .XX ±.01 ±.005 DECIMALS: .XXX ±.005 ANGLES: SEE NOTES MATERIAL: SEE NOTES FINISH: SEE NOTES DO NOT SCALE DRAWING	CONTRACT NO:		MACKIE Mackie Designs Inc. Woodinville, Wa.	
	APPROVALS	DATE		
	DRAWN: trh	10-15-93	SCHEMATIC, LED METER, METER BRIDGE	
	CHECKED: LM	1-27-94		
ISSUED: C. RIVERS	1-27-94	SIZE	DWG. NO.	REV.
ENG: JGG	1-27-94	D	990-023-00	F
MFG: ANGIE R.	1-27-94	SCALE: NONE	SHEET 1 OF 2	

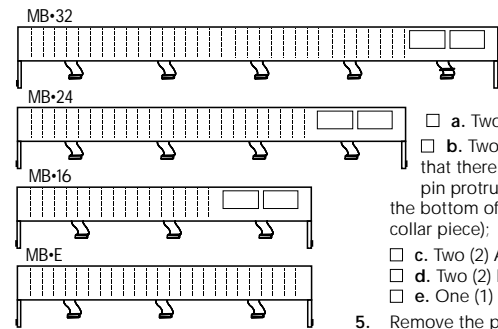
REVISIONS			DATE	APPROVED
ZONE:	REV:	DESCRIPTION		



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ± .xx ± .xxx±	CONTRACT NO:		 Mackie Designs Inc. Woodville, Wa.		
	APPROVALS	DATE			
	MATERIAL:	DRAWN: trh	10-15-93	SCHEMATIC, LED METER, METER BRIDGE	
	FINISH:	CHECKED: LM	1-27-94		
DO NOT SCALE DRAWING	ISSUED: C. RIVERS	1-27-94	SIZE D	DWG. NO. 990-023-00	REV. F
	ENG: JGG	1-27-94	SCALE: NONE	SHEET 2 OF 2	
	MFG: ANGIE R.	1-27-94			



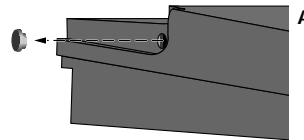
MB•32/MB•24/MB•16/MB•E 8•BUS METER BRIDGES



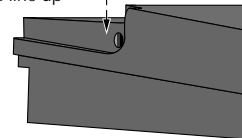
4. Locate and identify the hardware that came with your Meter Bridge:

- a. Two (2) slotted screws;
- b. Two (2) collar pieces (Note that there is a small pin protruding from the bottom of each collar piece);
- c. Two (2) Allen head screws;
- d. Two (2) lockwashers;
- e. One (1) allen wrench.

5. Remove the plastic caps that cover the Meter Bridge mounting holes on each side of the Console (Drawing A). Feed them to your boa.



6. Align the Meter Bridge with the Console (B) and lower it into place. Tilt the Meter Bridge back until it is at rest against the Console chassis (or your tangle of patchcords). Make sure that the meter bridge's mounting holes line up.

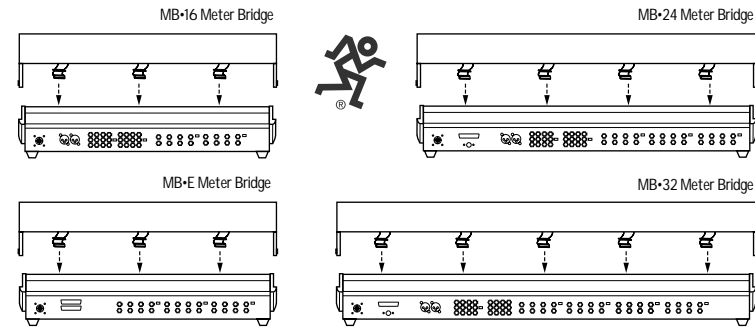


Congratulations on adding a Meter Bridge to your Mackie Designs 8•Bus Console. Installation is very straightforward and should take just a few minutes. The only reason we've included so many step-by-step drawings is because our art department wanted something to do on a rainy day¹.

INSTALLATION INSTRUCTIONS

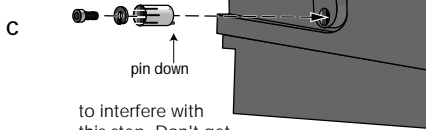
1. Locate the warranty card and fill it out. If you bought your Meter Bridge at the same time you purchased an 8•Bus series console, you don't need to answer all the questions on the card that came with the Meter Bridge. Just fill in the model number of the Meter Bridge, serial number, purchase date and dealer, and your name and address.
2. Make sure that your 8•Bus Console power supply is turned off.
3. Remove the Meter Bridge from its plastic bag. Save the bag. It's handy for wrapping boa constrictors or moray eels before popping them in your freezer. Also, save the box.

¹And, since every day except four or five in August are rainy up here in the Northwest Rainforest, they had time to do quite a nice job.



with the console's mounting holes.

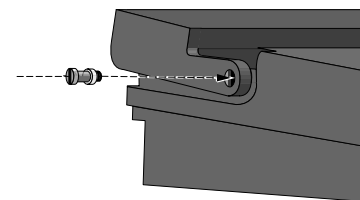
7. Hand-insert one collar piece into each side, with the "teeth" pointing out (C). Occasionally, the end caps of the Console will try



to interfere with this step. Don't get upset. Simply loosen the CONSOLE end cap screws, install the collar and then re-tighten the screws.

8. Turn the collars by hand until you feel the pin seat itself (it will stop turning).
9. Slide one lockwasher onto each allen-head screw.
10. Secure the collars by inserting an Allen-head screw on each side (C). Take care not to cross-thread the screws or strip the screwheads. Tighten the Allen screws securely.

11. Using a hefty screw driver, install a flush screw almost all the way into each side (Drawing D at right).
12. Raise the Meter Bridge as far forward as it will go.
13. On the Console, locate the rubber plugs that cover the Meter Bridge ribbon cable



sockets. The 32•8 has five; the 24•8 has four; the 16•8 and MB•E each have three (see epic MondoDrawing E at the top).

14. Remove the rubber plugs and feed them to the afore-mentioned boa constrictor.

13. Making sure that the plug and socket are aligned, firmly insert each ribbon cable into its corresponding socket in the Console (F). Take care to make sure that the cable is not twisted 180° (sounds insulting to caution you against something like this, but we've seen it done.) Unless your fingers are microminiature, you'll probably need to use the eraser end of a pencil to press down on the plug and make sure that it is fully seated (G).

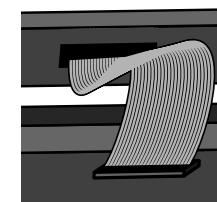
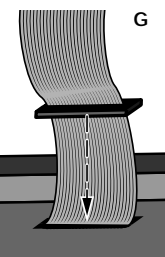
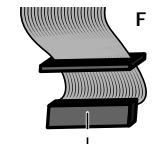
16. Slide the new improved, slotted rubber plugs (that are pre-attached to the ribbon cables) down until they fit snugly into the rectangular Console holes (Drawing H).
17. Adjust the Meter Bridge to the desired angle and tighten the screws.
18. Make yourself a sandwich. Wash hands before returning to work.

A SHORT TEST-DRIVE
The point of this exercise is to make sure that all the Meter Bridge channels (and all the LED's on each channel) work properly. Better now than later.

1. Power up your 8•Bus Console. Confirm that the following are aight:
 - A. The console's power LED;
 - B. The meter bridge's VU meters (unless you're installing an MB•E); and
 - C. Either the TAPE or CHANNEL LED on the Meter Bridge.

If nothing lights up, turn the power off immediately and re-check your connections. If all is aglow, proceed to the next step.

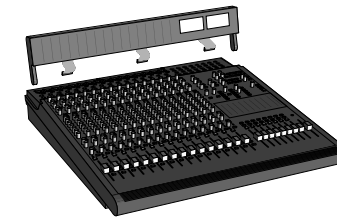
2. If the Meter Bridge TAPE LED is on, press the SOURCE button below it once to switch to CHANNEL. If the CHANNEL LED is on, switch it to TAPE and back to CHANNEL, to confirm that the switch is behaving.
3. Send a signal into the main path of Console Channel 1. The -20 LED above the fader will let you know if you have done so.
4. After making sure that the channel is not muted, turn up the channel fader. Confirm Meter



H

Bridge activity on Channel 1. Whoop with unbridled joy.

5. Repeat steps 3 and 4 for each channel of the Console. You'll probably want to stop whooping after about the sixth or seventh channel.
6. Assign the last channel you tested to the L/R MIX. Turn up the L/R MIX fader. Engage the L/R switch in the MONITOR section of the Console.
7. Confirm meter activity on both the Meter Bridge VU meters and the console's L/R MAIN LED meters. Pan the channel left and right to confirm that all meters understand this sort of thing.



TROUBLESHOOTING

If a group of LED ladders doesn't respond, there's a good chance that the corresponding ribbon cable isn't pushed in all the way. Make sure that it is firmly plugged in.

If nothing responds, contact your dealer or Mackie Designs Tech Support immediately.

METER BRIDGE OPERATION

Your meter bridge's ballistics and general behavior is the same as the submaster LED ladders on the Master section of the Console. For the excruciating details, read the section on METERING on page 11 of your 8•Bus manual.

When TAPE is selected on the Meter Bridge, the channel meters will show you what is coming out of your multitrack into your tape returns — before any signal manipulation in the channel (but after the +4/-10 switching circuit). The channel meters should behave just like your multitrack's meters.

When CHANNEL is selected, the meters "see" the channel's direct output post-EQ, post-fader and post-mute. This is particularly handy for live mixing.

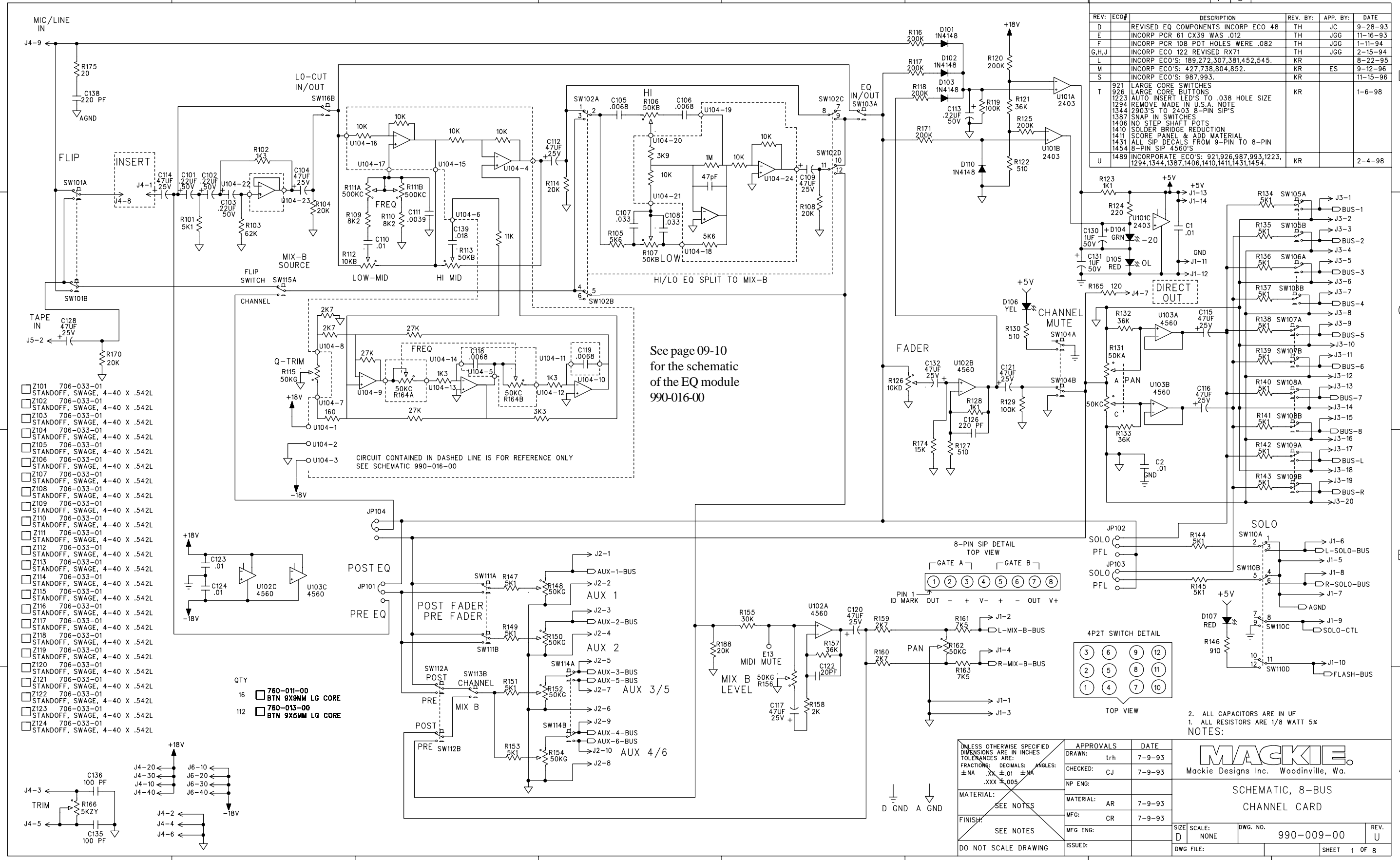
The VU meters on the MB•32, MB•24 and MB•16 "look" at the same signals as the console's L/R LED meters. You will notice that the VU meters and LED meters will not always agree with each other. THIS IS NORMAL. The LED meters read peak activity and will show every dynamic nuance. The VU meters, designed in the Early Bronze Age, are slower to respond and therefore show an RMS or average signal level. This will usually be several dB less than the peaks shown on the LED meter.

Final suggestion: Turn your overhead lights way down so that your Mackie system will look like the Death Star from Revenge of the Jedi.



DWG. NO.	990-009-00	SHT	1	REV.	U
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REV.	ECO#	DESCRIPTION	REV. BY:	APP. BY:	DATE
D		REVISED EQ COMPONENTS INCORP ECO 48	TH	JC	9-28-93
E		INCORP PCR 61 CX39 WAS .012	TH	JGG	11-16-93
F		INCORP PCR 108 POT HOLES WERE .082	TH	JGG	1-11-94
G,H,J		INCORP ECO 122 REVISED RX71	TH	JGG	2-15-94
L		INCORP ECO'S: 189,272,307,381,452,545.	KR		8-22-95
M		INCORP ECO'S: 427,738,804,852.	KR	ES	9-12-96
S		INCORP ECO'S: 987,993.	KR		11-15-96
T	921	LARGE CORE SWITCHES			
	926	LARGE CORE BUTTONS			
	1223	AUTO INSERT LED'S TO .038 HOLE SIZE			
	1294	REMOVE MADE IN U.S.A. NOTE			
	1344	2903'S TO 2403 8-PIN SIP'S			
	1387	SNAP IN SWITCHES			
	1406	NO STEP SHAFT POTS			
	1410	SOLDER BRIDGE REDUCTION			
	1411	SCORE PANEL & AD MATERIAL			
	1431	ALL SIP DECALS FROM 9-PIN TO 8-PIN			
	1454	8-PIN SIP 4560'S			
U	1489	INCORPORATE ECO'S: 921,926,987,993,1223,1294,1344,1387,1406,1410,1411,1431,1454.	KR		2-4-98



- Z101 706-033-01 STANDOFF, SWAGE, 4-40 X .542L
 - Z102 706-033-01 STANDOFF, SWAGE, 4-40 X .542L
 - Z103 706-033-01 STANDOFF, SWAGE, 4-40 X .542L
 - Z104 706-033-01 STANDOFF, SWAGE, 4-40 X .542L
 - Z105 706-033-01 STANDOFF, SWAGE, 4-40 X .542L
 - Z106 706-033-01 STANDOFF, SWAGE, 4-40 X .542L
 - Z107 706-033-01 STANDOFF, SWAGE, 4-40 X .542L
 - Z108 706-033-01 STANDOFF, SWAGE, 4-40 X .542L
 - Z109 706-033-01 STANDOFF, SWAGE, 4-40 X .542L
 - Z110 706-033-01 STANDOFF, SWAGE, 4-40 X .542L
 - Z111 706-033-01 STANDOFF, SWAGE, 4-40 X .542L
 - Z112 706-033-01 STANDOFF, SWAGE, 4-40 X .542L
 - Z113 706-033-01 STANDOFF, SWAGE, 4-40 X .542L
 - Z114 706-033-01 STANDOFF, SWAGE, 4-40 X .542L
 - Z115 706-033-01 STANDOFF, SWAGE, 4-40 X .542L
 - Z116 706-033-01 STANDOFF, SWAGE, 4-40 X .542L
 - Z117 706-033-01 STANDOFF, SWAGE, 4-40 X .542L
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 - Z119 706-033-01 STANDOFF, SWAGE, 4-40 X .542L
 - Z120 706-033-01 STANDOFF, SWAGE, 4-40 X .542L
 - Z121 706-033-01 STANDOFF, SWAGE, 4-40 X .542L
 - Z122 706-033-01 STANDOFF, SWAGE, 4-40 X .542L
 - Z123 706-033-01 STANDOFF, SWAGE, 4-40 X .542L
 - Z124 706-033-01 STANDOFF, SWAGE, 4-40 X .542L
- QTY
- 16 760-011-00 BTN 9X9MM LG CORE
 - 112 760-013-00 BTN 9X5MM LG CORE

See page 09-10 for the schematic of the EQ module 990-016-00

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. FRACTIONS: DECIMALS: ANGLES: TOLERANCES ARE: ±.NA .XX ±.01 ±.NA .XXX ±.005

MATERIAL: SEE NOTES
FINISH: SEE NOTES
DO NOT SCALE DRAWING

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CJ	7-9-93
NP ENG:	
MATERIAL: AR	7-9-93
MFG: CR	7-9-93
MFG ENG:	
ISSUED:	

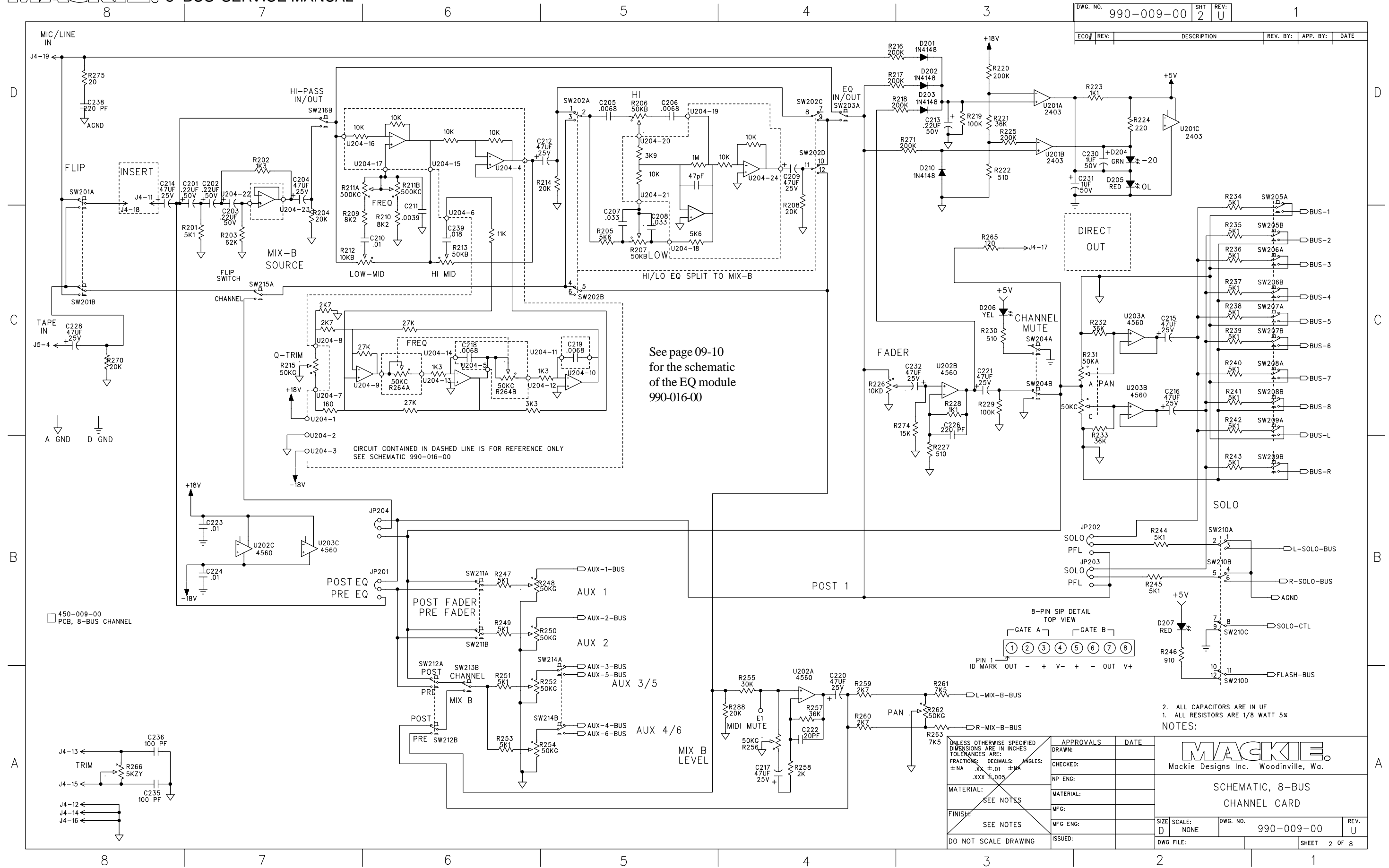
2. ALL CAPACITORS ARE IN UF
1. ALL RESISTORS ARE 1/8 WATT 5x

NOTES:

MACKIE
Mackie Designs Inc. Woodinville, Wa.

SCHMATIC, 8-BUS CHANNEL CARD

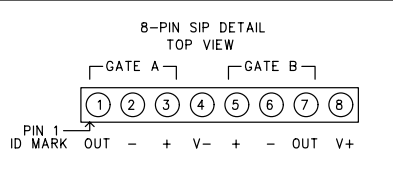
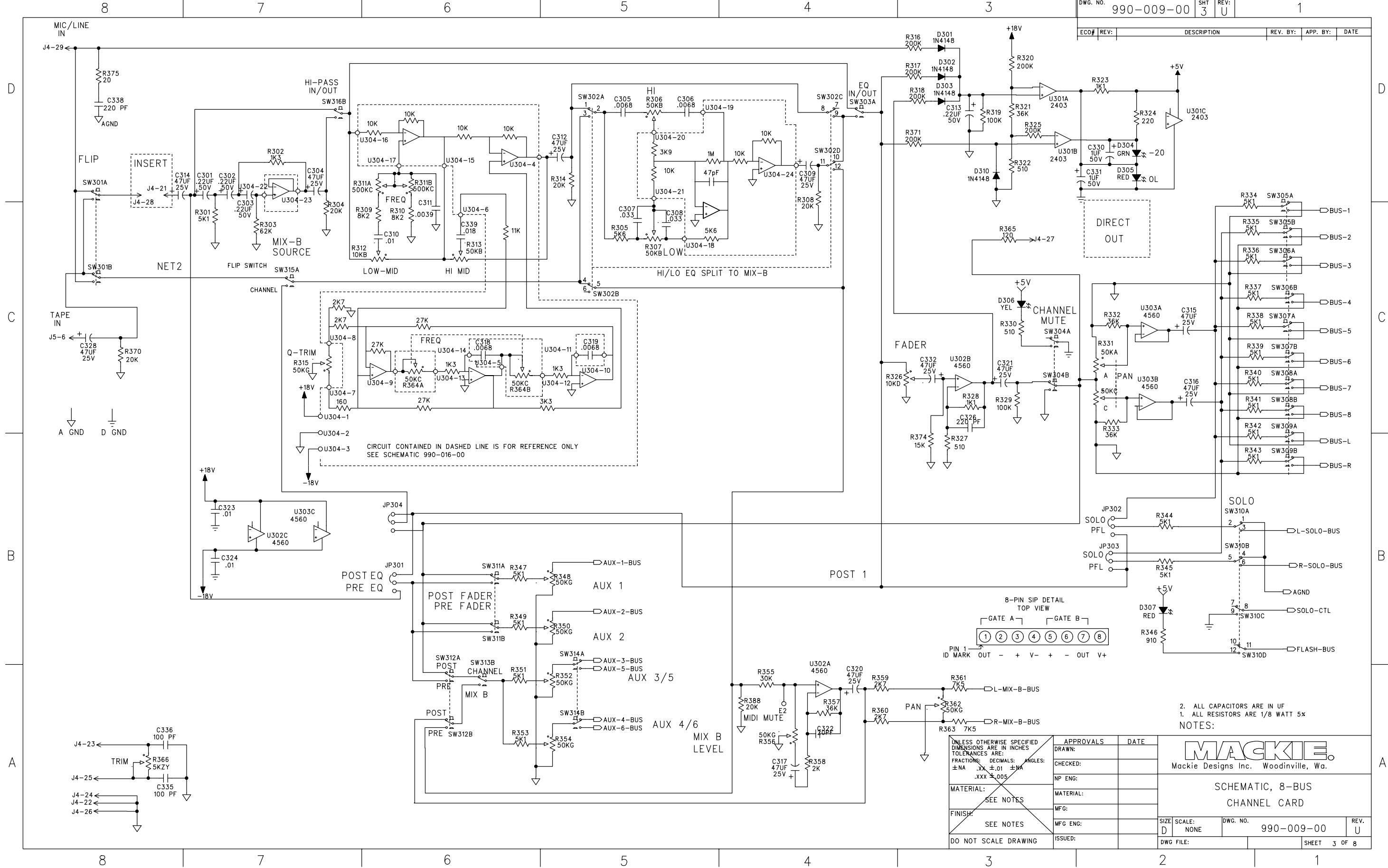
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DWG FILE:			SHEET 1 OF 8



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:	APPROVALS	DATE
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±NA .XX ±.01 ±MA .XXX ±.005	CHECKED:	
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SIZE D	SCALE NONE	DWG. NO. 990-009-00	REV. U
DWG FILE:			SHEET 2 OF 8

ECO#	REV.	DESCRIPTION	REV. BY.	APP. BY.	DATE



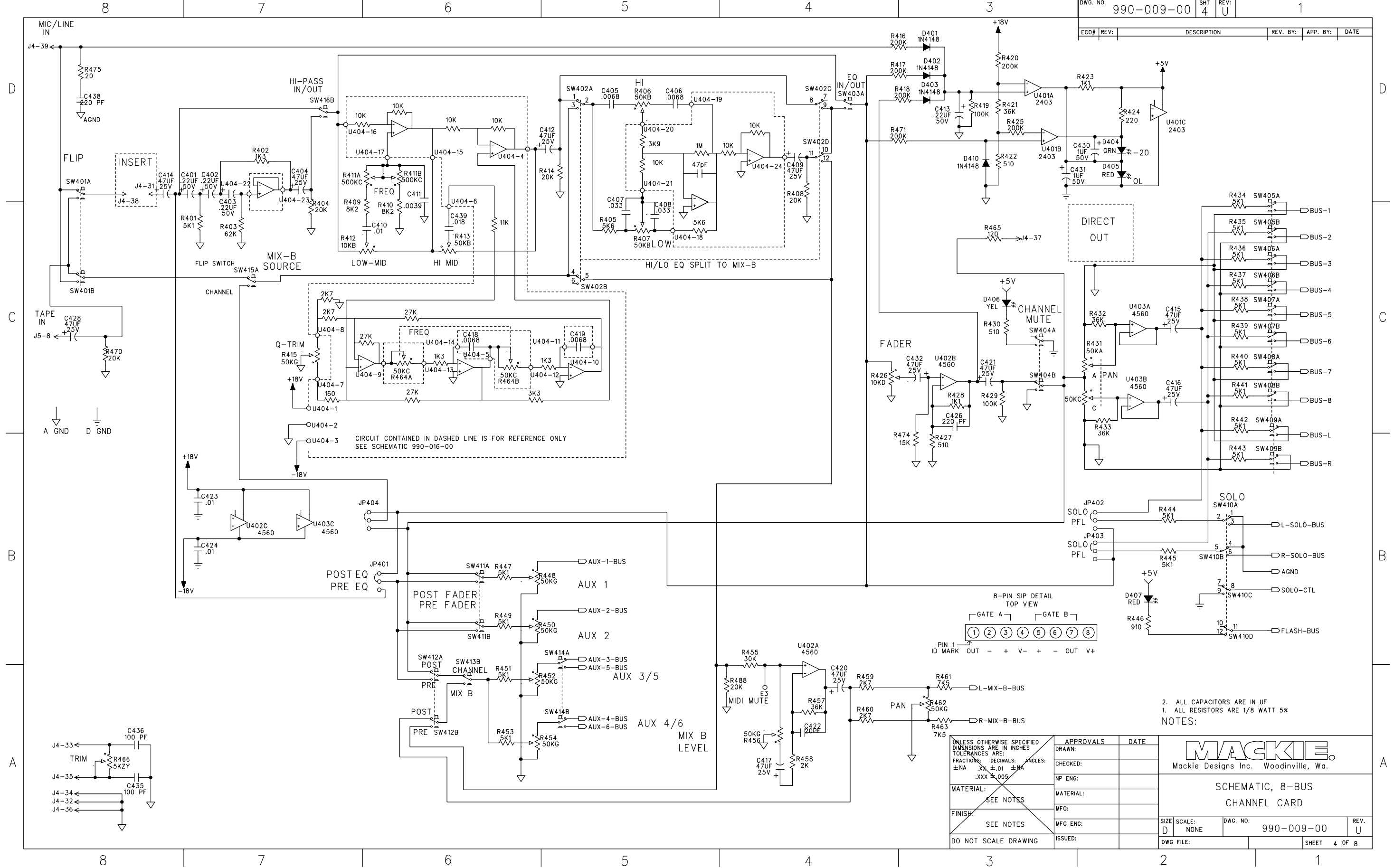
- NOTES:
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 - ALL RESISTORS ARE 1/8 WATT 5%

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:	APPROVALS	DATE
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±NA .XX ±.01 ±NA .xxx ±.005	CHECKED:	
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FINISH:	MATERIAL:	
DO NOT SCALE DRAWING	MFG:	
	MFG ENG:	
	ISSUED:	

MACKIE
Mackie Designs Inc. Woodinville, Wa.

SCHMATIC, 8-BUS CHANNEL CARD

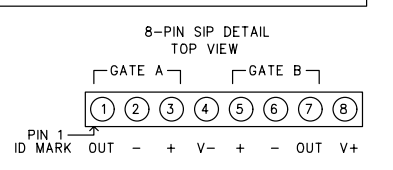
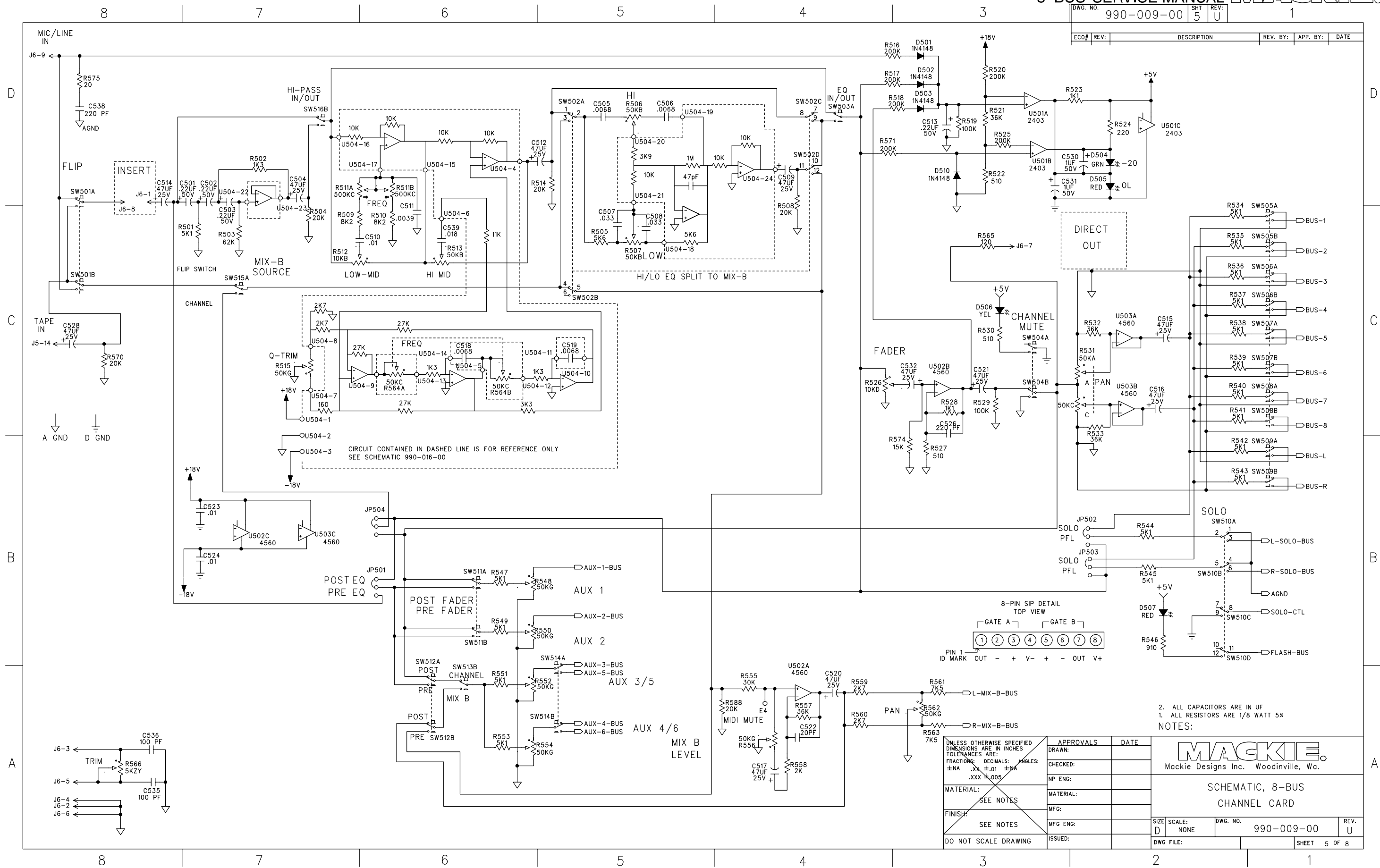
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DWG. FILE:			SHEET 3 OF 8



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		APPROVALS	DATE
FRACTIONS: DECIMALS: ANGLES:	±NA .XX ±.01 ±NA .XXX ±.005	DRAWN:	
MATERIAL:	SEE NOTES	CHECKED:	
FINISH:	SEE NOTES	NP ENG:	
DO NOT SCALE DRAWING		MATERIAL:	
		MFG:	
		MFG ENG:	
		ISSUED:	

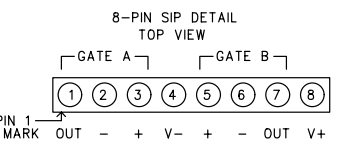
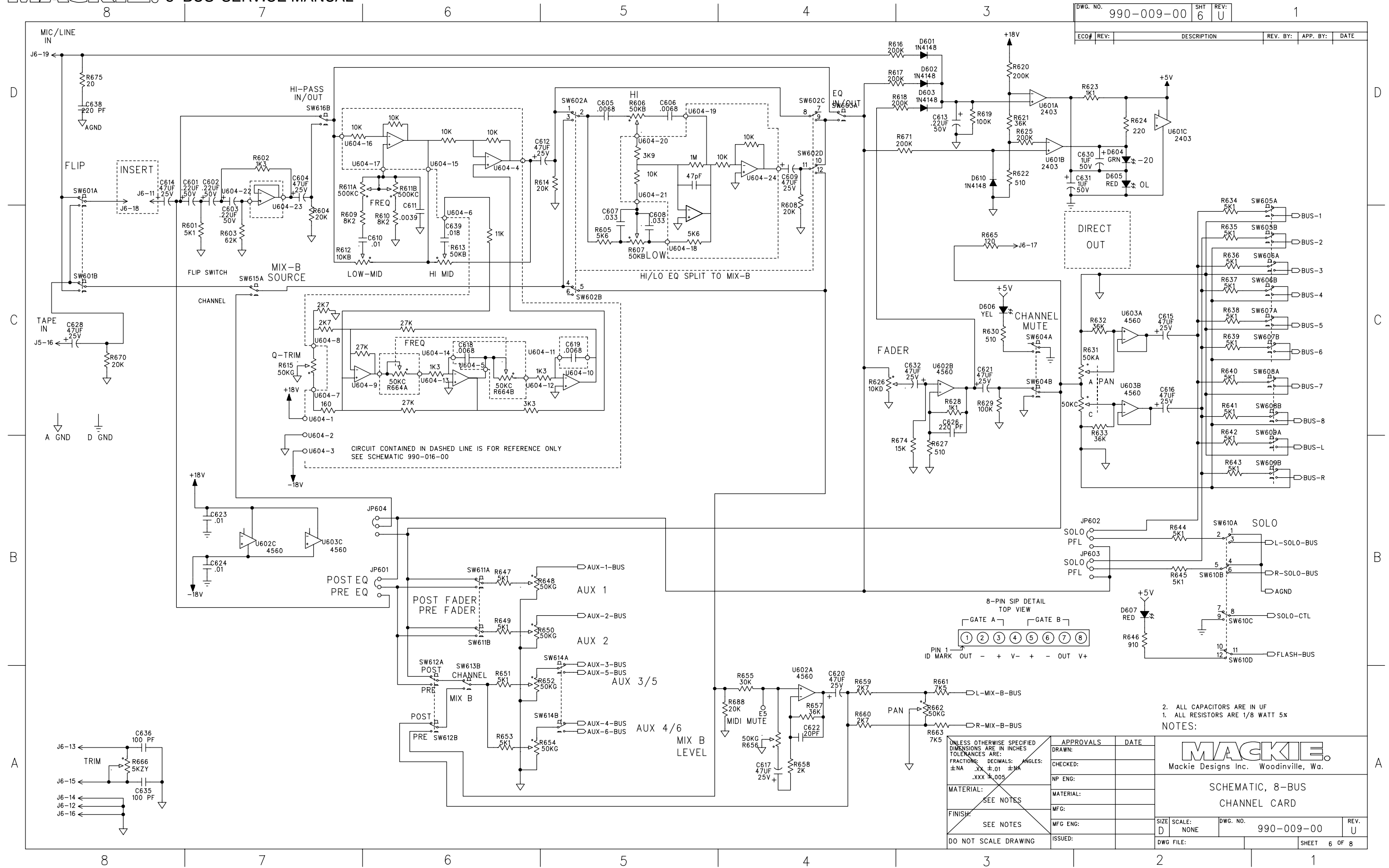
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DWG FILE:		SHEET 4 OF 8	

NOTES:
 1. ALL RESISTORS ARE 1/8 WATT 5%
 2. ALL CAPACITORS ARE IN UF



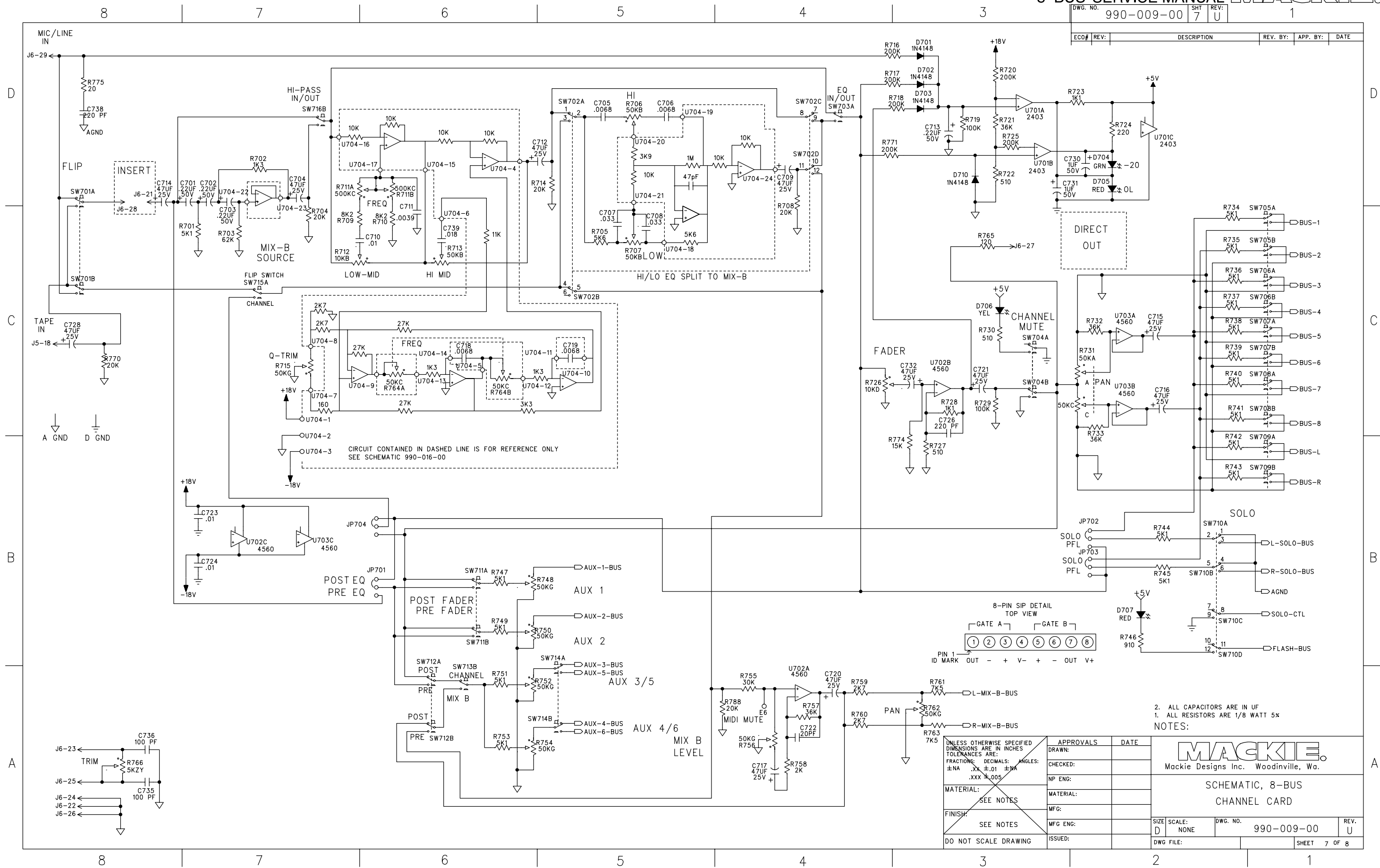
- NOTES:
1. ALL RESISTORS ARE 1/8 WATT 5%
 2. ALL CAPACITORS ARE IN UF

APPROVALS	DATE	<p>Mackie Designs Inc. Woodinville, Wa.</p>
DRAWN:		
CHECKED:		
NP ENG:		
MATERIAL:		<p>SCHMATIC, 8-BUS CHANNEL CARD</p>
MFG:		
MFG ENG:		
ISSUED:		
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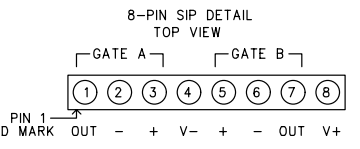


2. ALL CAPACITORS ARE IN UF
 1. ALL RESISTORS ARE 1/8 WATT 5%

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ±NA .XX ±.01 ±NA .XXX ±.005	APPROVALS	DATE	Mackie Designs Inc. Woodinville, Wa. SCHEMATIC, 8-BUS CHANNEL CARD
MATERIAL: SEE NOTES	DRAWN:		
FINISH: SEE NOTES	CHECKED:		
DO NOT SCALE DRAWING	NP ENG:		
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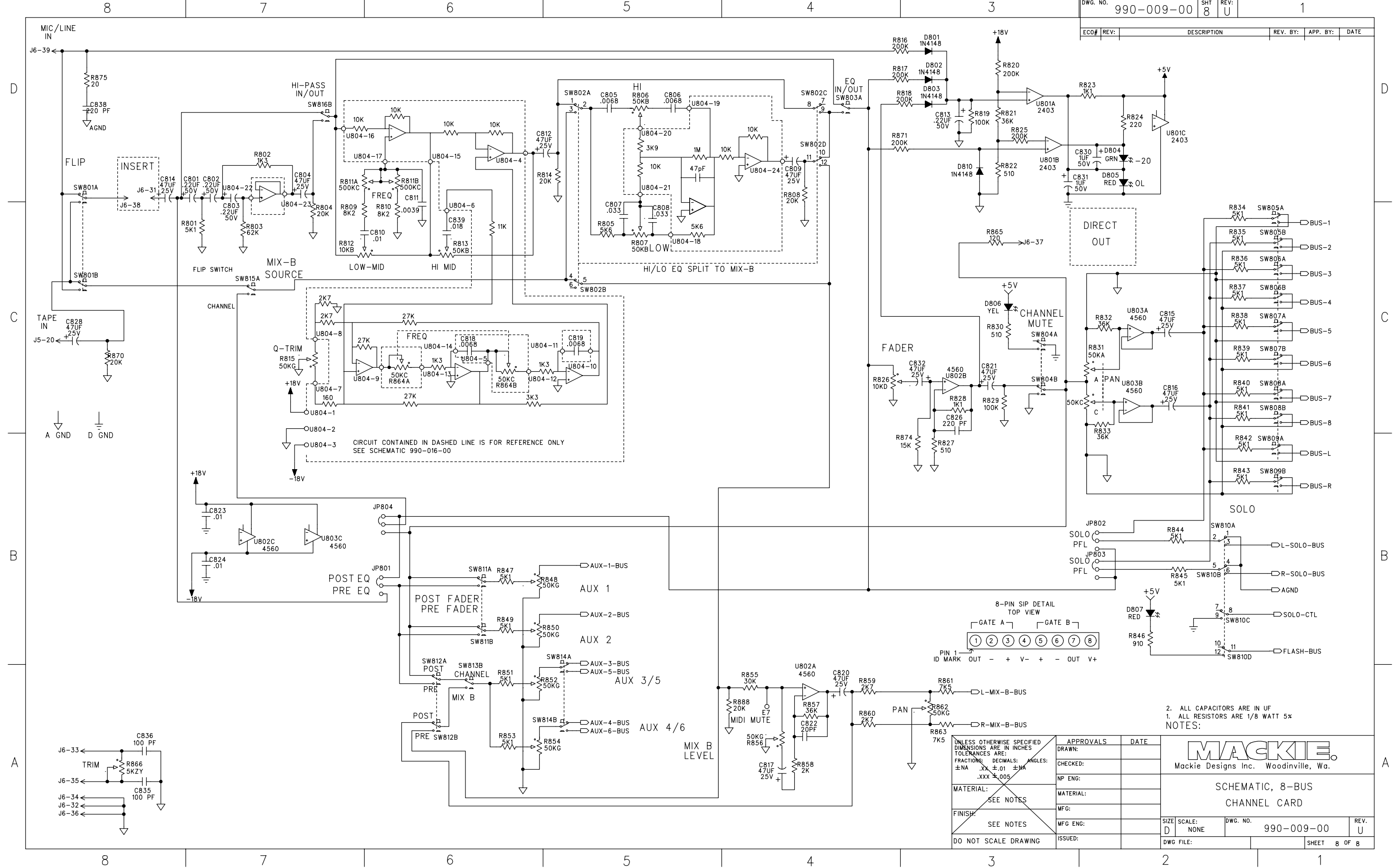


CIRCUIT CONTAINED IN DASHED LINE IS FOR REFERENCE ONLY SEE SCHEMATIC 990-016-00



- 2. ALL CAPACITORS ARE IN UF
- 1. ALL RESISTORS ARE 1/8 WATT 5%

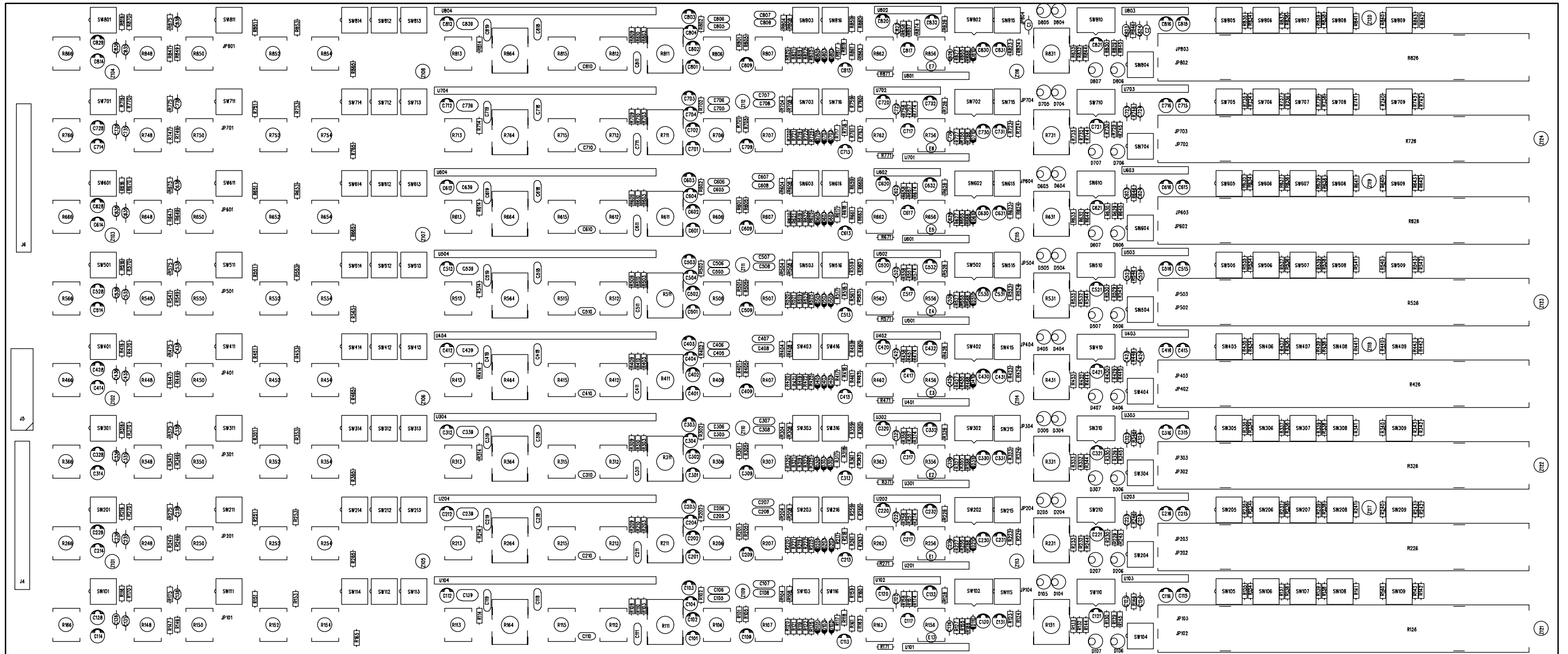
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ±.NA ±.XX ±.01 ±.NA .XXX ±.005 MATERIAL: SEE NOTES FINISH: SEE NOTES DO NOT SCALE DRAWING	APPROVALS	DATE	MACKIE Mackie Designs Inc. Woodinville, Wa. SCHEMATIC, 8-BUS CHANNEL CARD
	DRAWN:		
	CHECKED:		
	NP ENG:		
	MATERIAL:		
	MFG:		
	MFG ENG:		SIZE SCALE: NONE DWG. NO. 990-009-00 REV. U
	ISSUED:		DWG. FILE: SHEET 7 OF 8



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		APPROVALS	DATE
FRACTIONS:	DECIMALS:	DRAWN:	
ANGLES:		CHECKED:	
±NA .XX ±.01 ±NA	.XXX ±.005	NP ENG:	
MATERIAL:	SEE NOTES	MATERIAL:	
FINISH:	SEE NOTES	MFG:	
DO NOT SCALE DRAWING		MFG ENG:	
		ISSUED:	

MACKIE. Mackie Designs Inc. Woodinville, Wa.	
SCHEMATIC, 8-BUS CHANNEL CARD	
SIZE: D	SCALE: NONE
DWG. NO. 990-009-00	REV. U
DWG FILE:	SHEET 8 OF 8

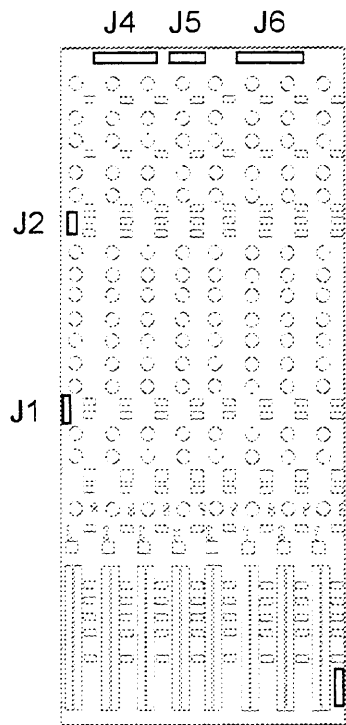
2. ALL CAPACITORS ARE IN UF
 1. ALL RESISTORS ARE 1/8 WATT 5%



J1	
AGND 1	L-MIX-B-BUS 2
AGND 3	R-MIX-B-BUS 4
AGND 5	L-SOLO-BUS 6
AGND 7	R-SOLO-BUS 8
SOLO-CTL 9	FLASH-BUS 10
DGND 11	DGND 12
+5V 13	+5V 14

J2	
AUX-1-BUS 1	AGND 2
AUX-2-BUS 3	AGND 4
AUX-3-BUS 5	AGND 6
AUX-5-BUS 7	AGND 8
AUX-4-BUS 9	AUX-6-BUS 10

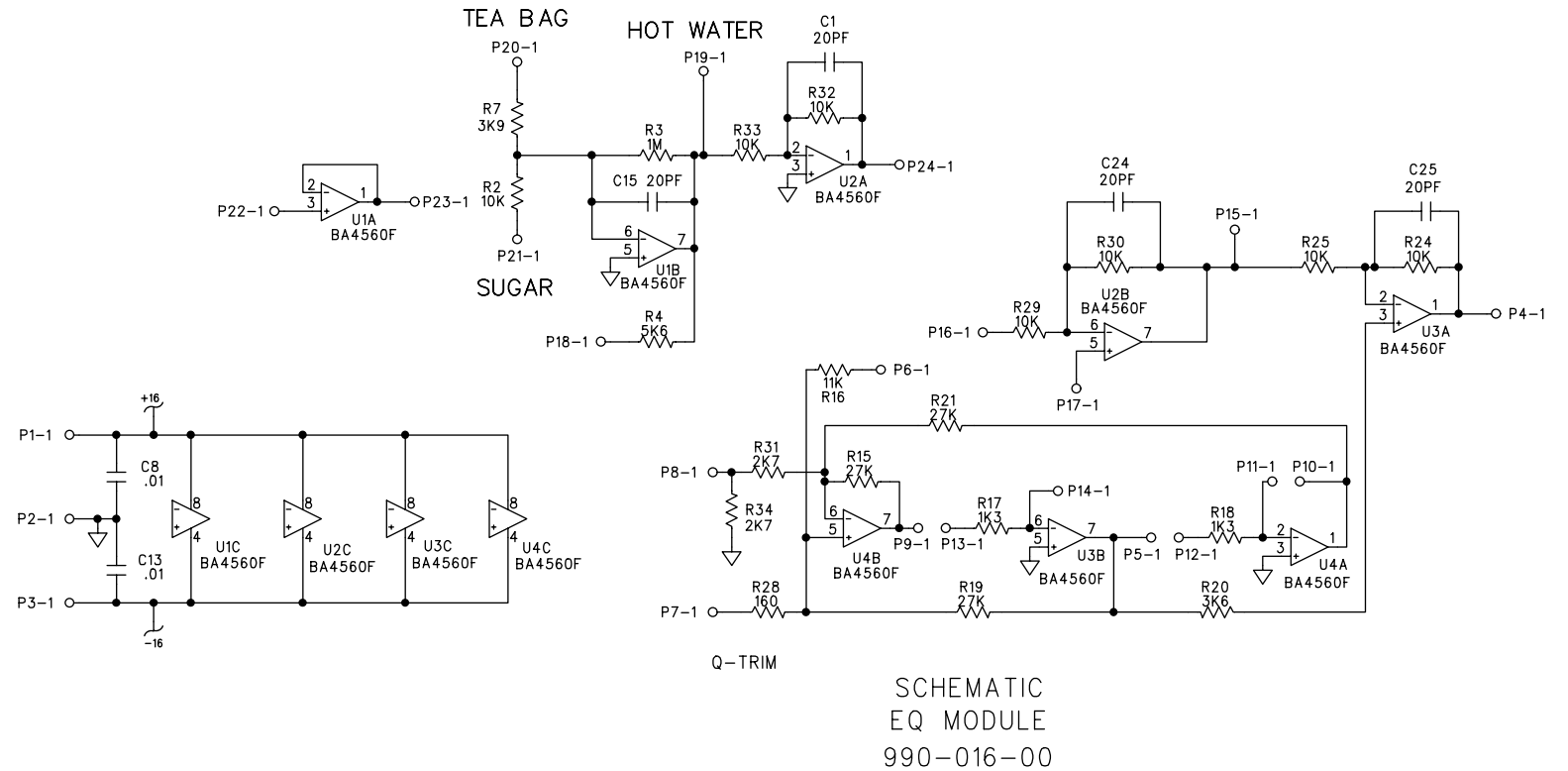
J3	
BUS-1 1	AGND 2
BUS-2 3	AGND 4
BUS-3 5	AGND 6
BUS-4 7	AGND 8
BUS-5 9	AGND 10
BUS-6 11	AGND 12
BUS-7 13	AGND 14
BUS-8 15	AGND 16
BUS-L 17	AGND 18
BUS-R 19	AGND 20



J4	
CHANNEL 1 INS RTN 1	CHANNEL 1 GND 2
CHANNEL 1 TRIM 3	CHANNEL 1 GND 4
CHANNEL 1 TRIM 5	CHANNEL 1 GND 6
CHANNEL 1 DI OUT 7	CHANNEL 1 INS SEND 8
CHANNEL 1 PRE OUT 9	+16V 10
CHANNEL 2 INS RTN 11	CHANNEL 2 GND 12
CHANNEL 2 TRIM 13	CHANNEL 2 GND 14
CHANNEL 2 TRIM 15	CHANNEL 2 GND 16
CHANNEL 2 DI OUT 17	CHANNEL 2 INS SEND 18
CHANNEL 2 PRE OUT 19	+16V 20
CHANNEL 3 INS RTN 21	CHANNEL 3 GND 22
CHANNEL 3 TRIM 23	CHANNEL 3 GND 24
CHANNEL 3 TRIM 25	CHANNEL 3 GND 26
CHANNEL 3 DI OUT 27	CHANNEL 3 INS SEND 28
CHANNEL 3 PRE OUT 29	+16V 30
CHANNEL 4 INS RTN 31	CHANNEL 4 GND 32
CHANNEL 4 TRIM 33	CHANNEL 4 GND 34
CHANNEL 4 TRIM 35	CHANNEL 4 GND 36
CHANNEL 4 DI OUT 37	CHANNEL 4 INS SEND 38
CHANNEL 4 PRE OUT 39	+16V 40

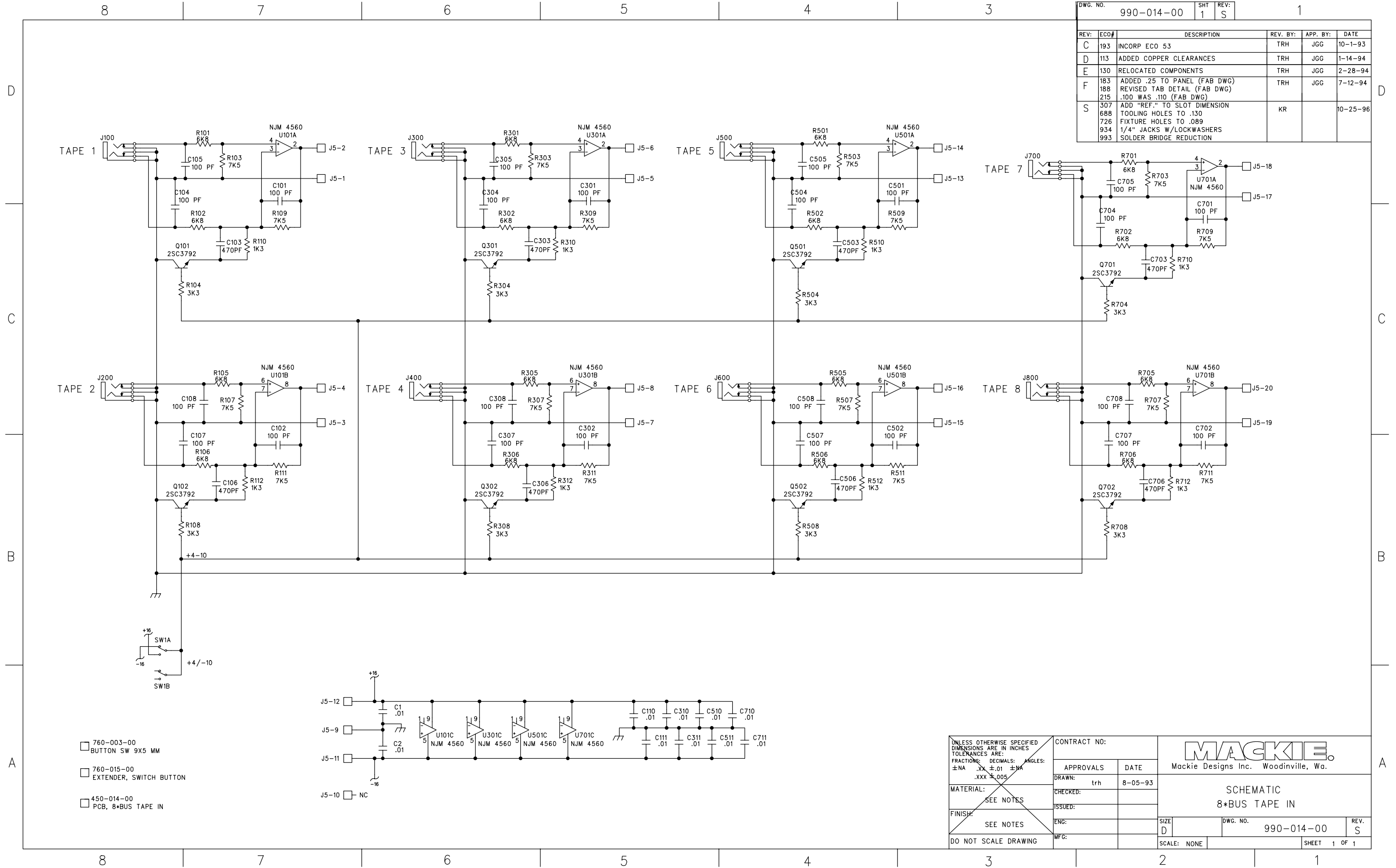
J5	
N/C 1	TAPE RTN 1 2
N/C 3	TAPE RTN 2 4
N/C 5	TAPE RTN 3 6
N/C 7	TAPE RTN 4 8
DGND 9	+5V 10
-16V 11	+16V 12
N/C 13	TAPE RTN 5 14
N/C 15	TAPE RTN 6 16
N/C 17	TAPE RTN 7 18
N/C 19	TAPE RTN 8 20

J6	
CHANNEL 5 INS RTN 1	CHANNEL 5 GND 2
CHANNEL 5 TRIM 3	CHANNEL 5 GND 4
CHANNEL 5 TRIM 5	CHANNEL 5 GND 6
CHANNEL 5 DI OUT 7	CHANNEL 5 INS SEND 8
CHANNEL 5 PRE OUT 9	-16V 10
CHANNEL 6 INS RTN 11	CHANNEL 6 GND 12
CHANNEL 6 TRIM 13	CHANNEL 6 GND 14
CHANNEL 6 TRIM 15	CHANNEL 6 GND 16
CHANNEL 6 DI OUT 17	CHANNEL 6 INS SEND 18
CHANNEL 6 PRE OUT 19	-16V 20
CHANNEL 7 INS RTN 21	CHANNEL 7 GND 22
CHANNEL 7 TRIM 23	CHANNEL 7 GND 24
CHANNEL 7 TRIM 25	CHANNEL 7 GND 26
CHANNEL 7 DI OUT 27	CHANNEL 7 INS SEND 28
CHANNEL 7 PRE OUT 29	-16V 30
CHANNEL 8 INS RTN 31	CHANNEL 8 GND 32
CHANNEL 8 TRIM 33	CHANNEL 8 GND 34
CHANNEL 8 TRIM 35	CHANNEL 8 GND 36
CHANNEL 8 DI OUT 37	CHANNEL 8 INS SEND 38
CHANNEL 8 PRE OUT 39	-16V 40



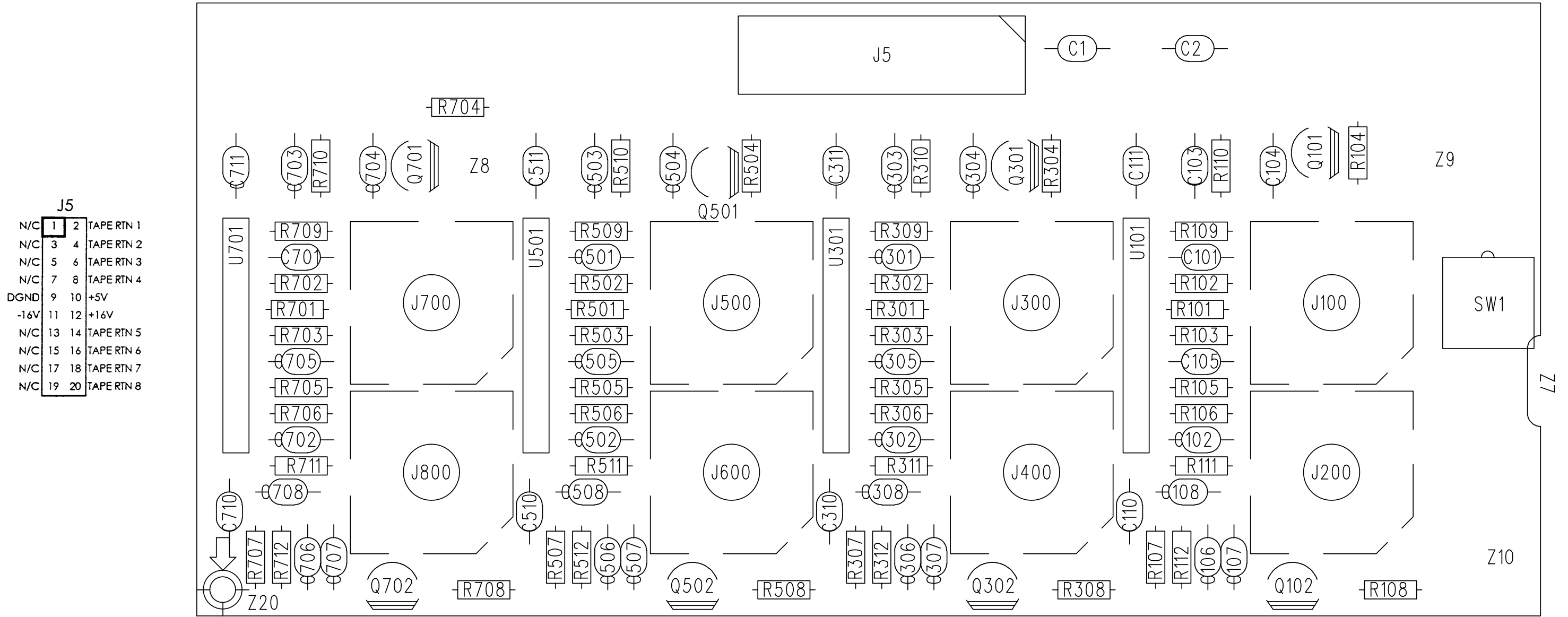
SCHEMATIC EQ MODULE 990-016-00

DWG. NO.	990-014-00	SHT	1	REV:	S	1
REV:	ECO#	DESCRIPTION	REV. BY:	APP. BY:	DATE	
C	193	INCORP ECO 53	TRH	JGG	10-1-93	
D	113	ADDED COPPER CLEARANCES	TRH	JGG	1-14-94	
E	130	RELOCATED COMPONENTS	TRH	JGG	2-28-94	
F	183	ADDED .25 TO PANEL (FAB DWG)	TRH	JGG	7-12-94	
	188	REVISED TAB DETAIL (FAB DWG)				
	215	.100 WAS .110 (FAB DWG)				
S	307	ADD "REF." TO SLOT DIMENSION	KR		10-25-96	
	688	TOOLING HOLES TO .130				
	726	FIXTURE HOLES TO .089				
	934	1/4" JACKS W/LOCKWASHERS				
	993	SOLDER BRIDGE REDUCTION				

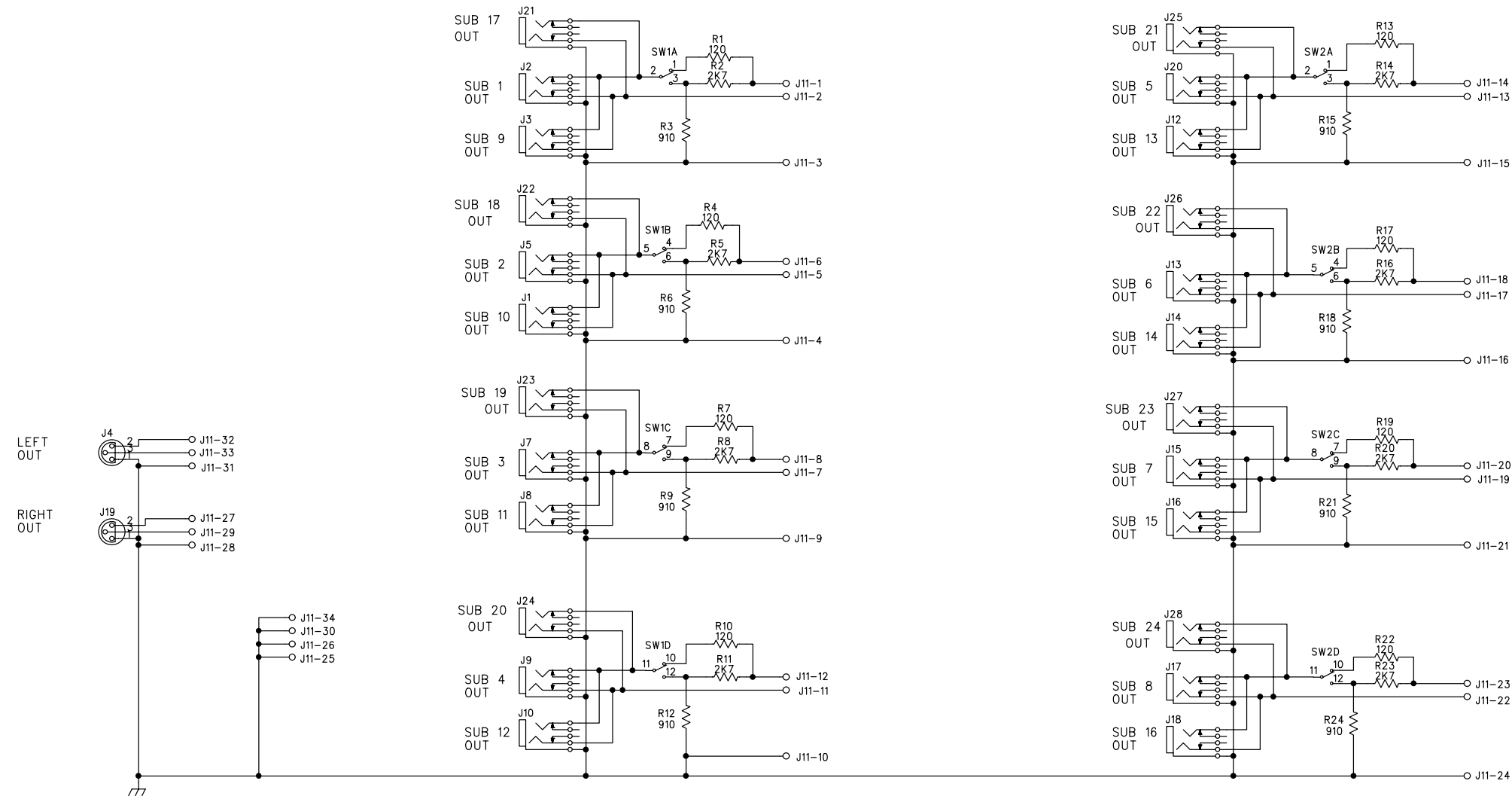


- 760-003-00
BUTTON SW 9X5 MM
- 760-015-00
EXTENDER, SWITCH BUTTON
- 450-014-00
PCB, 8-BUS TAPE IN

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ±.NA .XX ±.01 ±.NA .XXX ±.005	CONTRACT NO:		MACKIE Mackie Designs Inc. Woodinville, Wa.		
	APPROVALS	DATE			
	MATERIAL:	CHECKED: trh	8-05-93	SCHEMATIC 8-BUS TAPE IN	
	FINISH:	ISSUED:			
DO NOT SCALE DRAWING	ENG:		SIZE D	DWG. NO. 990-014-00	
	MFG:		SCALE: NONE	REV. S	
				SHEET 1 OF 1	



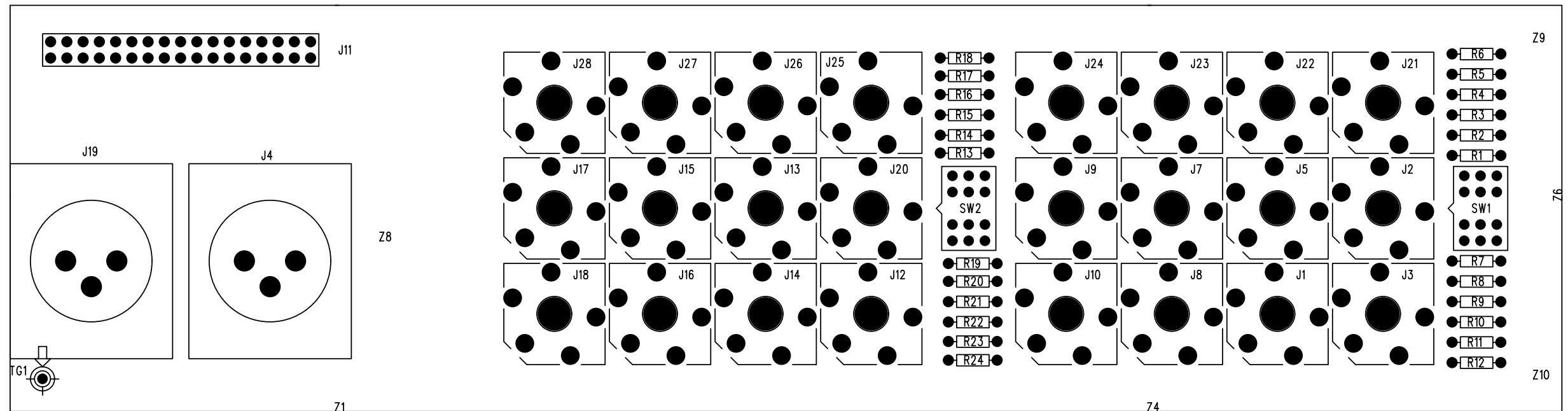
DWG. NO.	990-013-00	SHT	1	REV:	S	1
REV:	ECO#	DESCRIPTION	REV. BY:	APP. BY:	DATE	
B		INCOMP. ECO'S: 215,307,545.	KR	ES	9-6-95	
S	934	1/4" JACKS W/LOCKWASHER	KR		10-30-96	
	993	SOLDER BRIDGE REDUCTION				



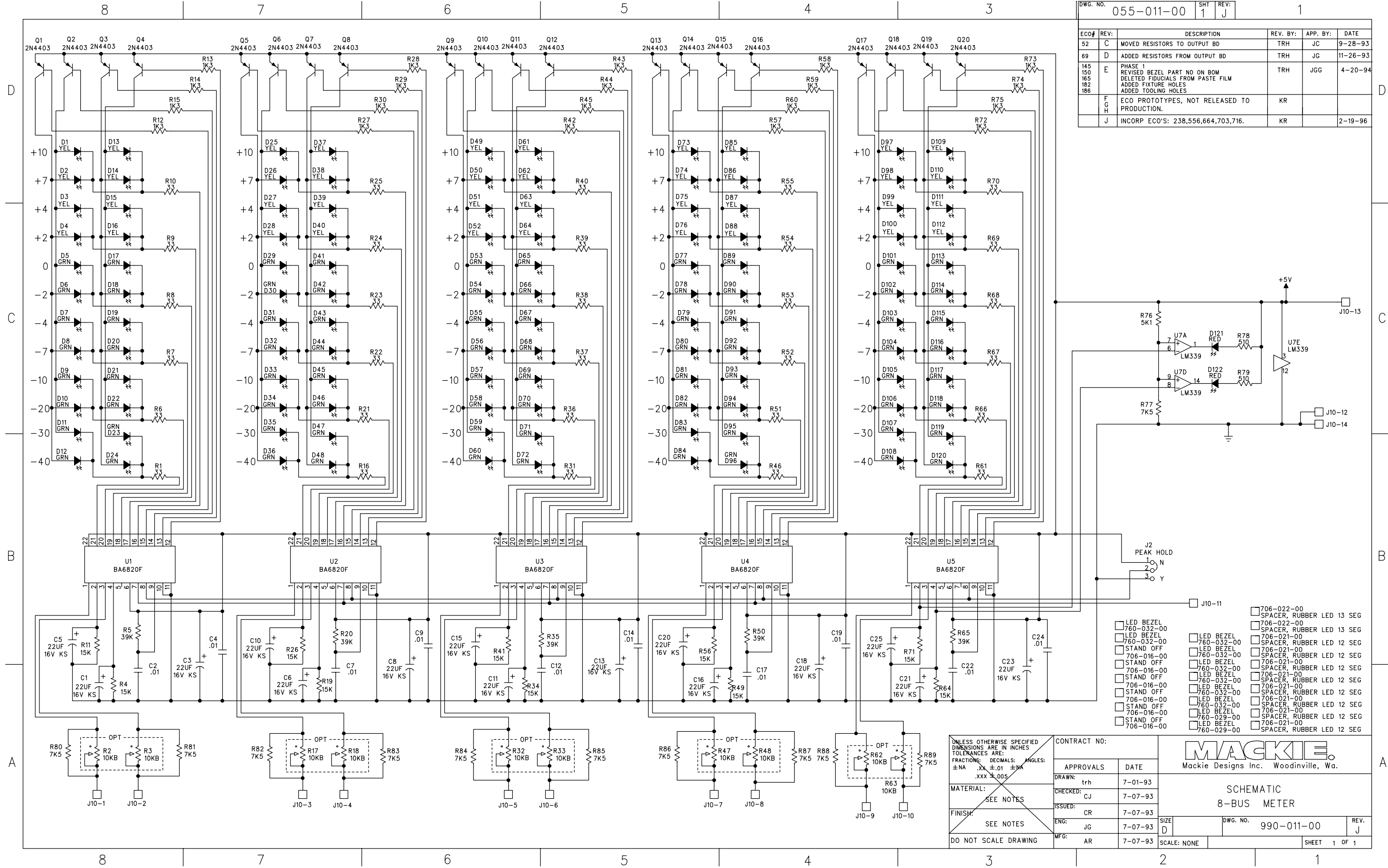
- 450-013-00
PCB, 8-BUS TAPE OUT
- 760-003-00
BUTTON SW 9X5 MM
- 760-003-00
BUTTON SW 9X5 MM
- 760-015-00
EXTENDER, SWITCH BUTTON
- 760-015-00
EXTENDER, SWITCH BUTTON

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ± .xx ± ± .xxx ± ±		CONTRACT NO:		MACKIE. Mackie Designs Inc. Woodinville, Wa.	
MATERIAL:		APPROVALS	DATE		
FINISH:		DRAWN: trh	6-23-93	SCHEMATIC 8-BUS TAPE OUT	
DO NOT SCALE DRAWING		CHECKED:	ISSUED:		
		ENG:		SIZE	DWG. NO. 990-013-00
		MFG:		SCALE:	REV. S
				SHEET 1 OF 1	

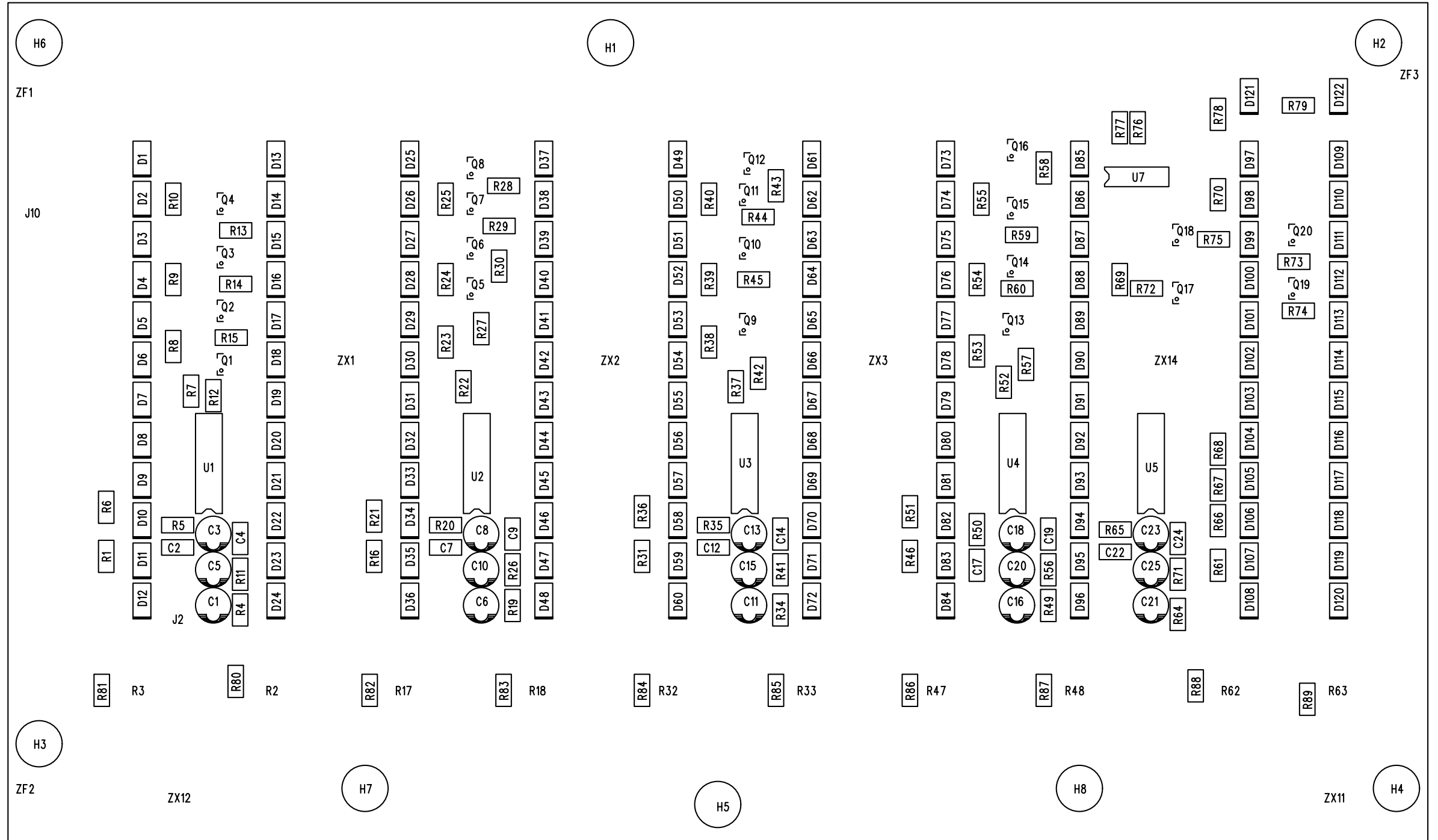
J11			
SUB 1 OUT +	1	2	SUB 1 OUT -
SUB 1 OUT GND	3	4	SUB 2 OUT GND
SUB 2 OUT -	5	6	SUB 2 OUT +
SUB 3 OUT -	7	8	SUB 3 OUT +
SUB 3 OUT GND	9	10	SUB 4 OUT GND
SUB 4 OUT -	11	12	SUB 4 OUT +
SUB 5 OUT -	13	14	SUB 5 OUT +
SUB 5 OUT GND	15	16	SUB 6 OUT GND
SUB 6 OUT -	17	18	SUB 6 OUT +
SUB 7 OUT -	19	20	SUB 7 OUT +
SUB 7 OUT GND	21	22	SUB 8 OUT -
SUB 8 OUT GND	23	24	SUB 8 OUT GND
AGND	25	26	AGND
R OUT +	27	28	R OUT GND
R OUT -	29	30	AGND
L OUT GND	31	32	L OUT +
L OUT -	33	34	AGND



DWG. NO. 055-011-00 SHT 1 REV: J

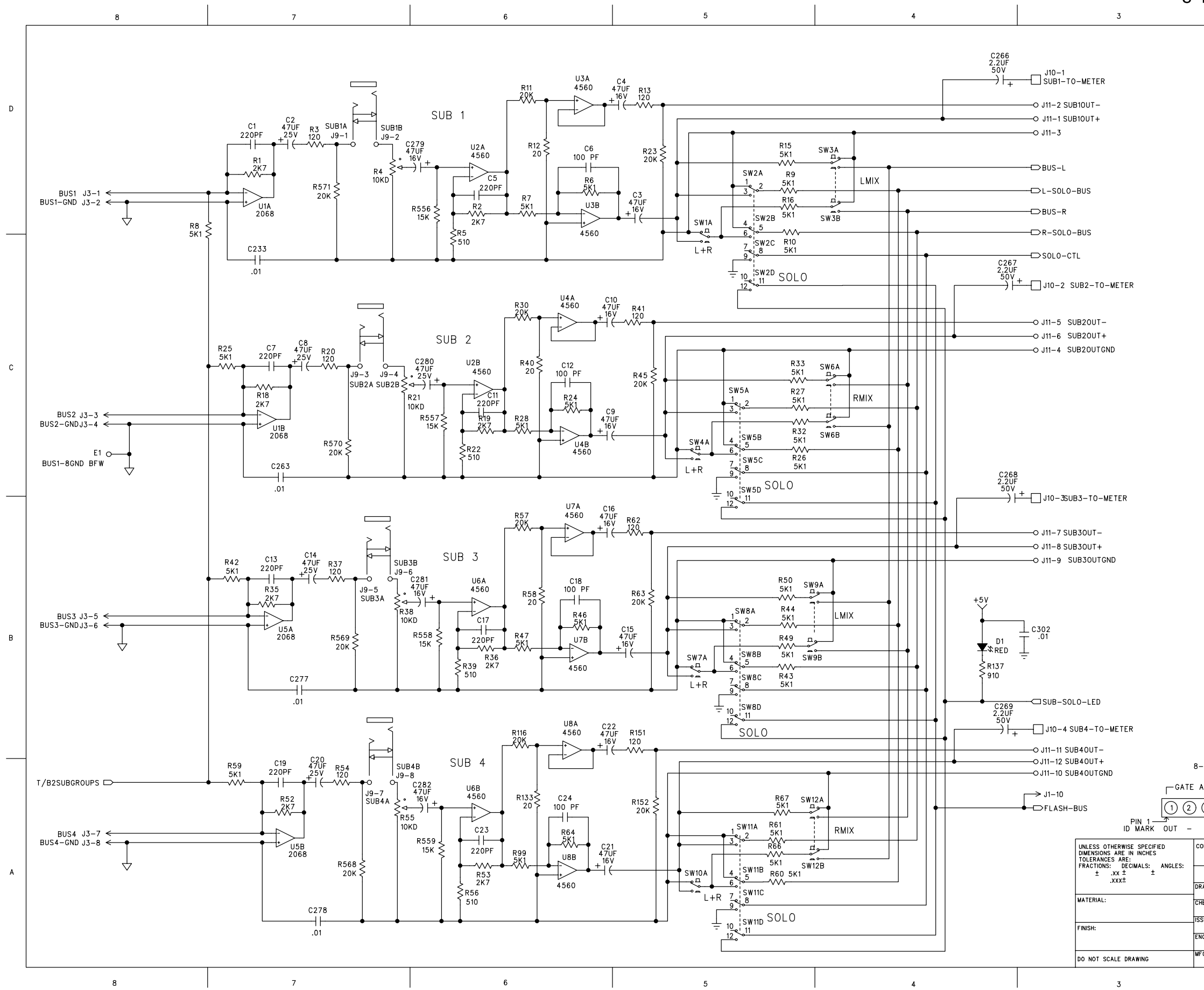


J10	
SUB 1 TO METER	1
SUB 2 TO METER	2
SUB 3 TO METER	3
SUB 4 TO METER	4
SUB 5 TO METER	5
SUB 6 TO METER	6
SUB 7 TO METER	7
SUB 8 TO METER	8
L TO METER	9
R TO METER	10
SUB METER MUTE	11
DGND	12
+5V	13
DGND	14



DWG. NO. 990-010-00 SHT 1 REV: U

REVISIONS			
REV:	ECO:	DESCRIPTION	REV BY: APP BY: DATE
C		INCORP ECO 52	trh JC 9-28-93
D	58	ADDED R611, D21	trh JC 10-13-93
E	66	ARTWORK REVISED FOR SOLDERABILITY	trh JC 11-02-93
F	69	DELETED RESISTORS ADDED WITH ECO 52	trh 11-16-93
G	109	U57 WAS NJM2043, REVISED NJM2068.	trh 12-28-93
H		SPREAD APART LYTICS	trh 1-19-94
J	145 158	PHASE 1 ; DIODE HOLES WERE .032	trh JGG 4-17-94
K		INCORP ECO'S:189,193,307,545,568,588.	KR 9-12-95
L		INCORP ECO'S:427,631,727,852.	KR ES 2-16-96
S	987 993	AUTO INSERT LED'S SOLDER BRIDGE REDUCTION	KR 11-15-96
T	921 926 1223 1284 1294 1387 1406 1410 1411 1454	LARGE CORE SWITCHES LARGE CORE BUTTONS AUTO INSERT LED'S TO .038 HOLE SIZE AUTO INSERT 25C3792'S REMOVE MADE IN U.S.A. NOTE SNAP IN SWITCHES NO STEP SHAFT 50KG DUAL SOLDER BRIDGE REDUCTION SCORE PANEL & ADD MATERIAL 8-PIN SIP 4560'S	KR 1-6-98
U	1490	INCORPORATE ECO'S: 987,993,921,926,1223, 1284,1294,1387,1406,1410,1411,1454.	KR 2-3-98



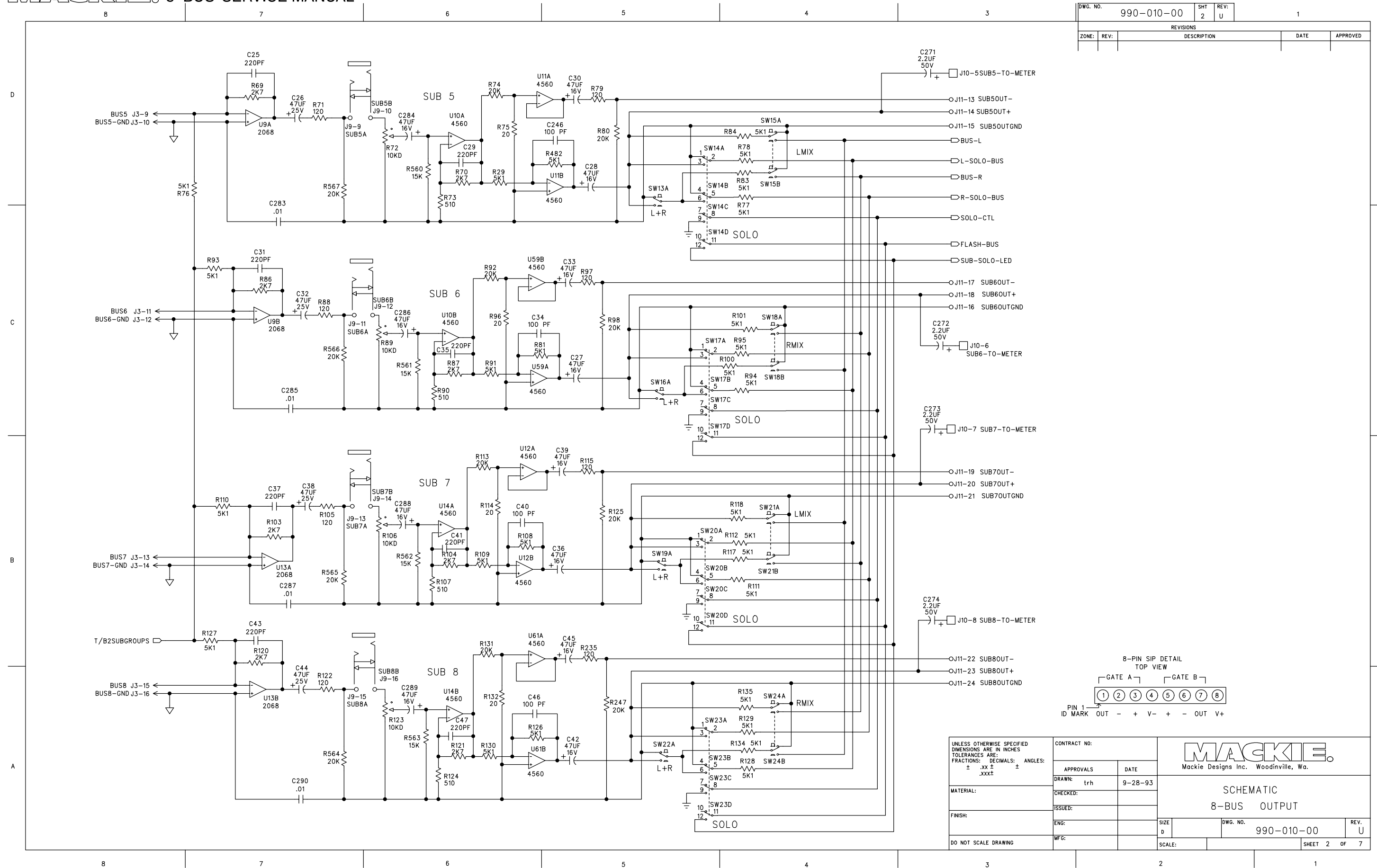
8-PIN SIP DETAIL
TOP VIEW

PIN 1 ID MARK OUT - + V- + - OUT V+

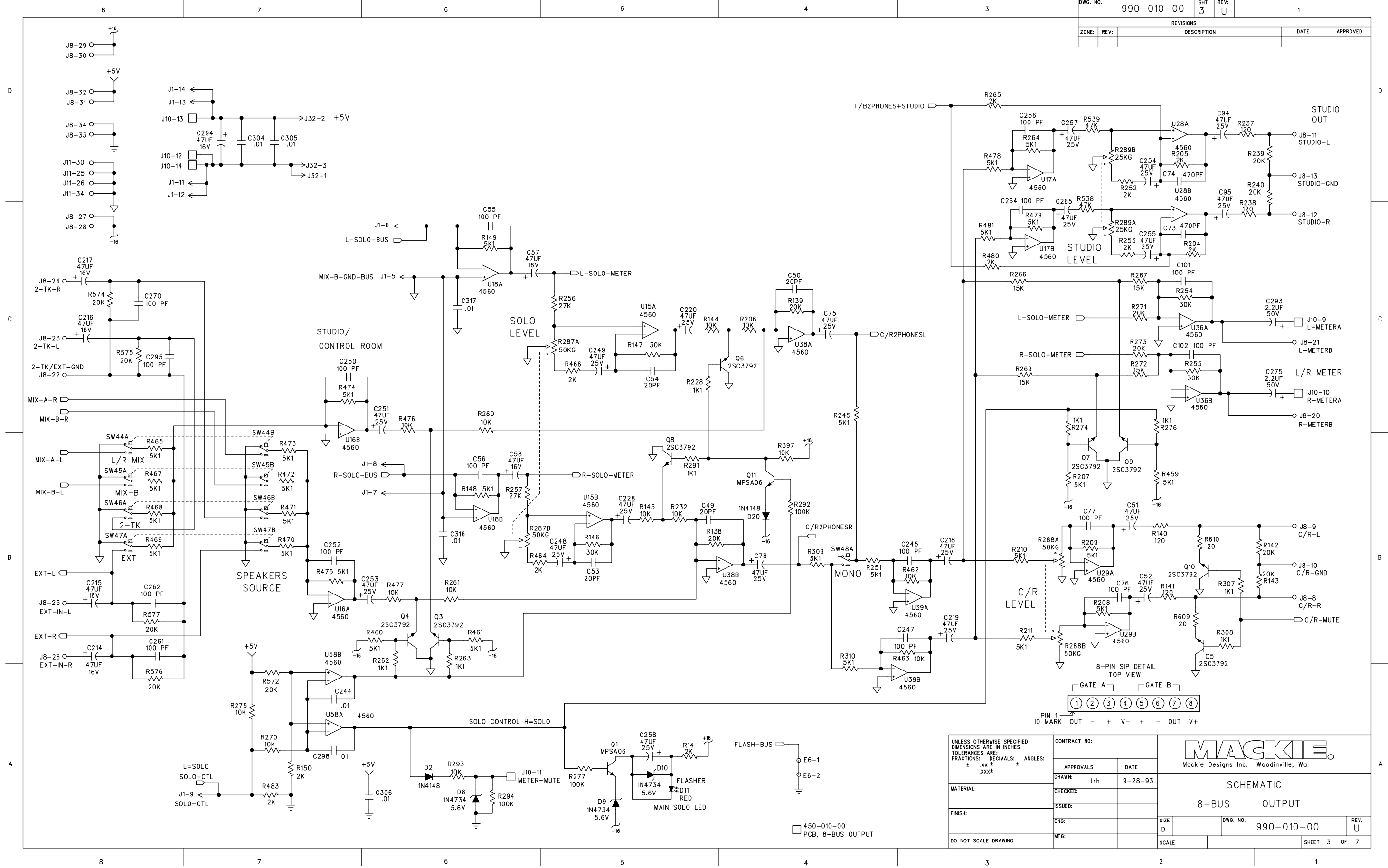
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ±.xx ±.xxx±		CONTRACT NO:		 Mackie Designs Inc. Woodinville, Wa.	
MATERIAL:		APPROVALS:	DATE:		
FINISH:		CHECKED: CJ	7-9-93		
DO NOT SCALE DRAWING		ISSUED: CR	7-9-93		

SIZE: D DWG. NO. 990-010-00 REV. U
SCALE: SHEET 1 OF 7

REVISIONS			DATE	APPROVED
ZONE:	REV:	DESCRIPTION		

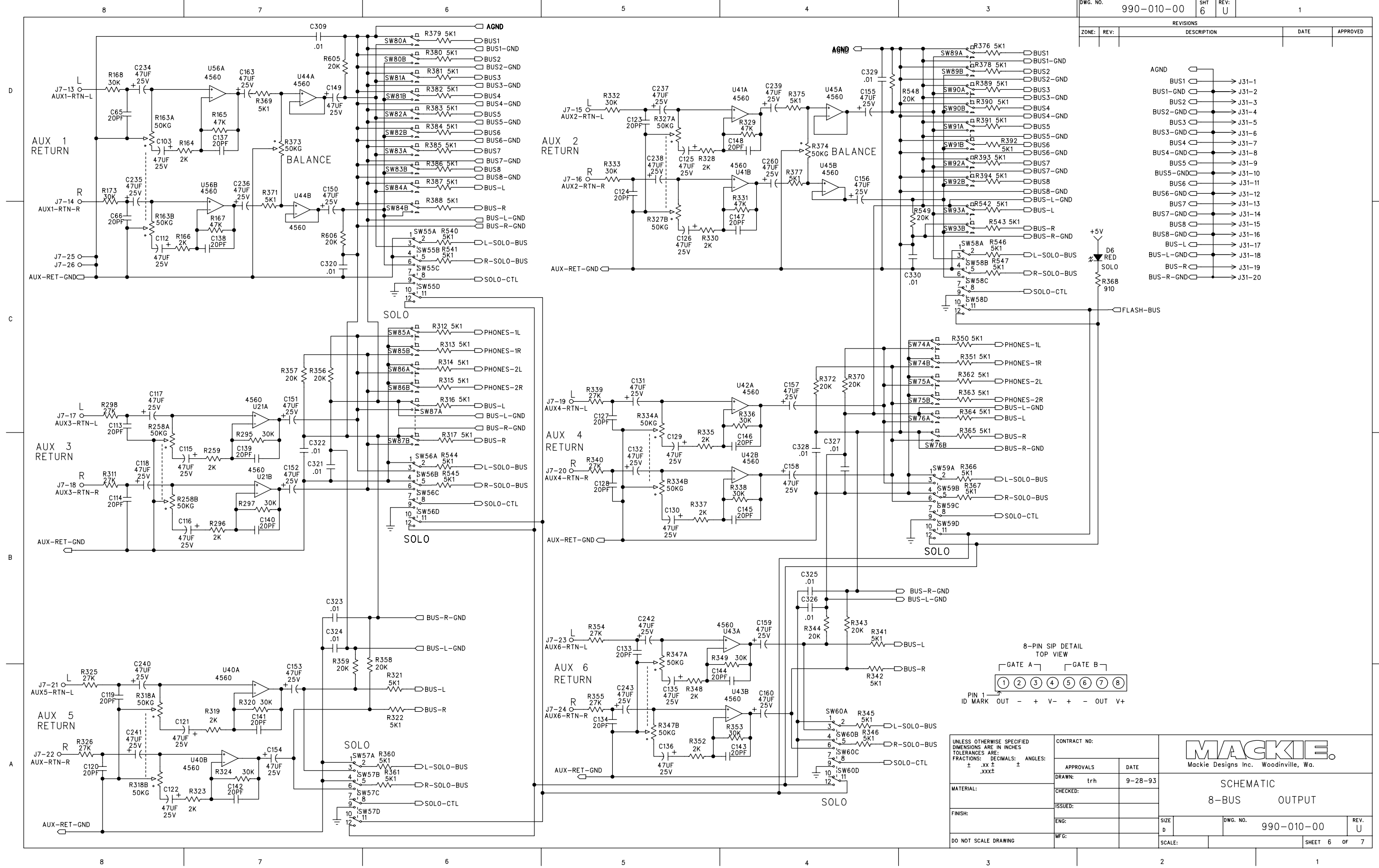


REVISIONS		DATE	APPROVED
REV:	DESCRIPTION		



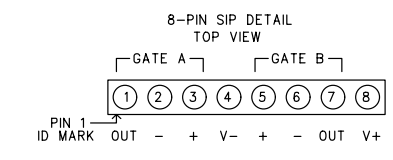
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ±.xx ±.xxx±	CONTRACT NO:	<p>Mackie Designs Inc. Woodinville, Wa.</p> <p>SCHEMATIC</p> <p>8-BUS OUTPUT</p>
MATERIAL:	APPROVALS:	
FINISH:	DATE:	
DO NOT SCALE DRAWING	CHECKED: trh	
	ISSUED:	

SIZE D	DWG. NO. 990-010-00	REV. U
SCALE:	SHEET 3 OF 7	



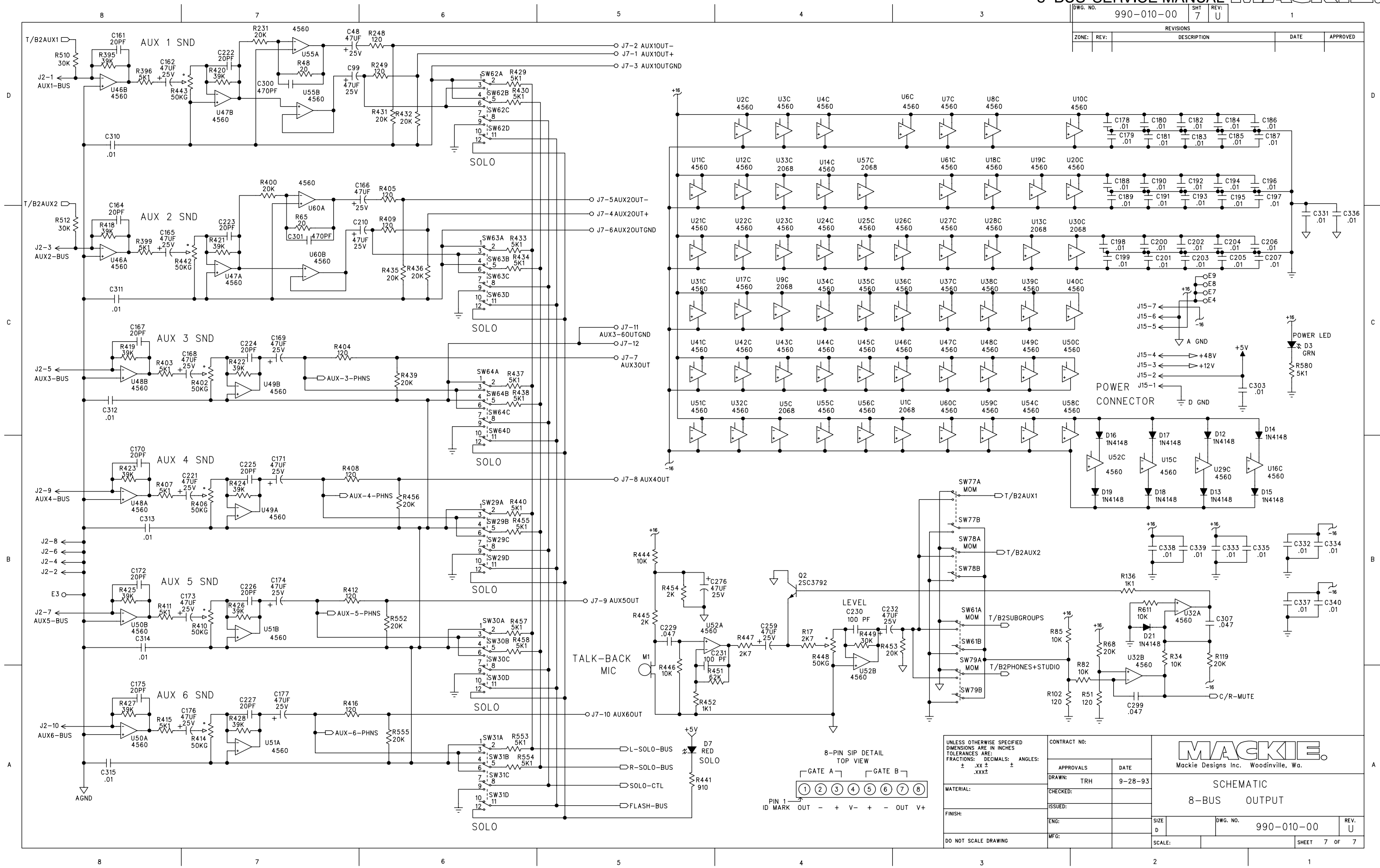
REVISIONS		DATE	APPROVED
ZONE:	REV:	DESCRIPTION	

AGND	→	J31-1
BUS1	→	J31-2
BUS1-GND	→	J31-3
BUS2	→	J31-4
BUS2-GND	→	J31-5
BUS3	→	J31-6
BUS3-GND	→	J31-7
BUS4	→	J31-8
BUS4-GND	→	J31-9
BUS5	→	J31-10
BUS5-GND	→	J31-11
BUS6	→	J31-12
BUS6-GND	→	J31-13
BUS7	→	J31-14
BUS7-GND	→	J31-15
BUS8	→	J31-16
BUS8-GND	→	J31-17
BUS-L	→	J31-18
BUS-L-GND	→	J31-19
BUS-R	→	J31-20
BUS-R-GND	→	J31-21



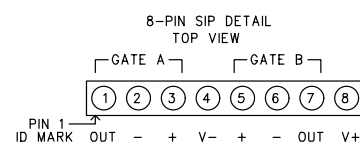
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ± .xx ± ± .xxx ±	CONTRACT NO:		Mackie Designs Inc. Woodinville, Wa.
	APPROVALS	DATE	
	DRAWN: trh	9-28-93	
	CHECKED:		
MATERIAL:	ISSUED:		SCHEMATIC 8-BUS OUTPUT
FINISH:	ENG:	SIZE	
DO NOT SCALE DRAWING	MFG:	DWG. NO. 990-010-00	
		SCALE:	SHEET 6 OF 7

REVISIONS		DATE	APPROVED
ZONE:	REV:	DESCRIPTION	



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ±.xx ±.xxx±

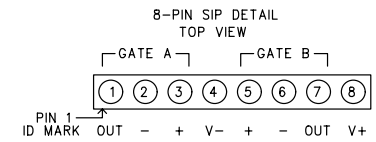
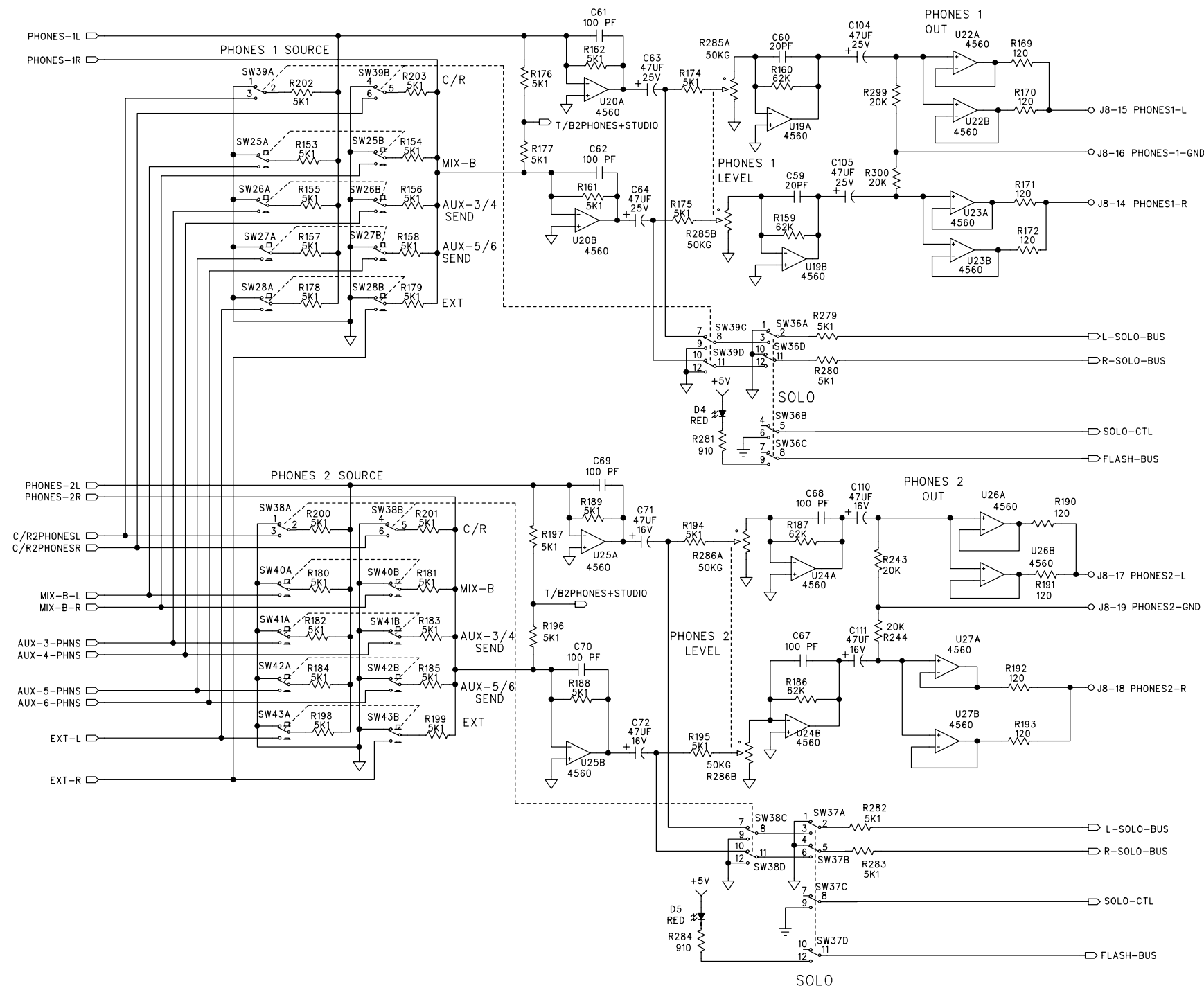
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APPROVALS		Mackie Designs Inc. Woodinville, Wa.	
DRAWN: TRH		DATE: 9-28-93	
CHECKED:		SCHEMATIC	
ISSUED:		8-BUS OUTPUT	
ENG:		SIZE: D	DWG. NO. 990-010-00
MFG:		SCALE:	SHEET 7 OF 7



REVISIONS		DATE	APPROVED
ZONE:	REV:	DESCRIPTION	

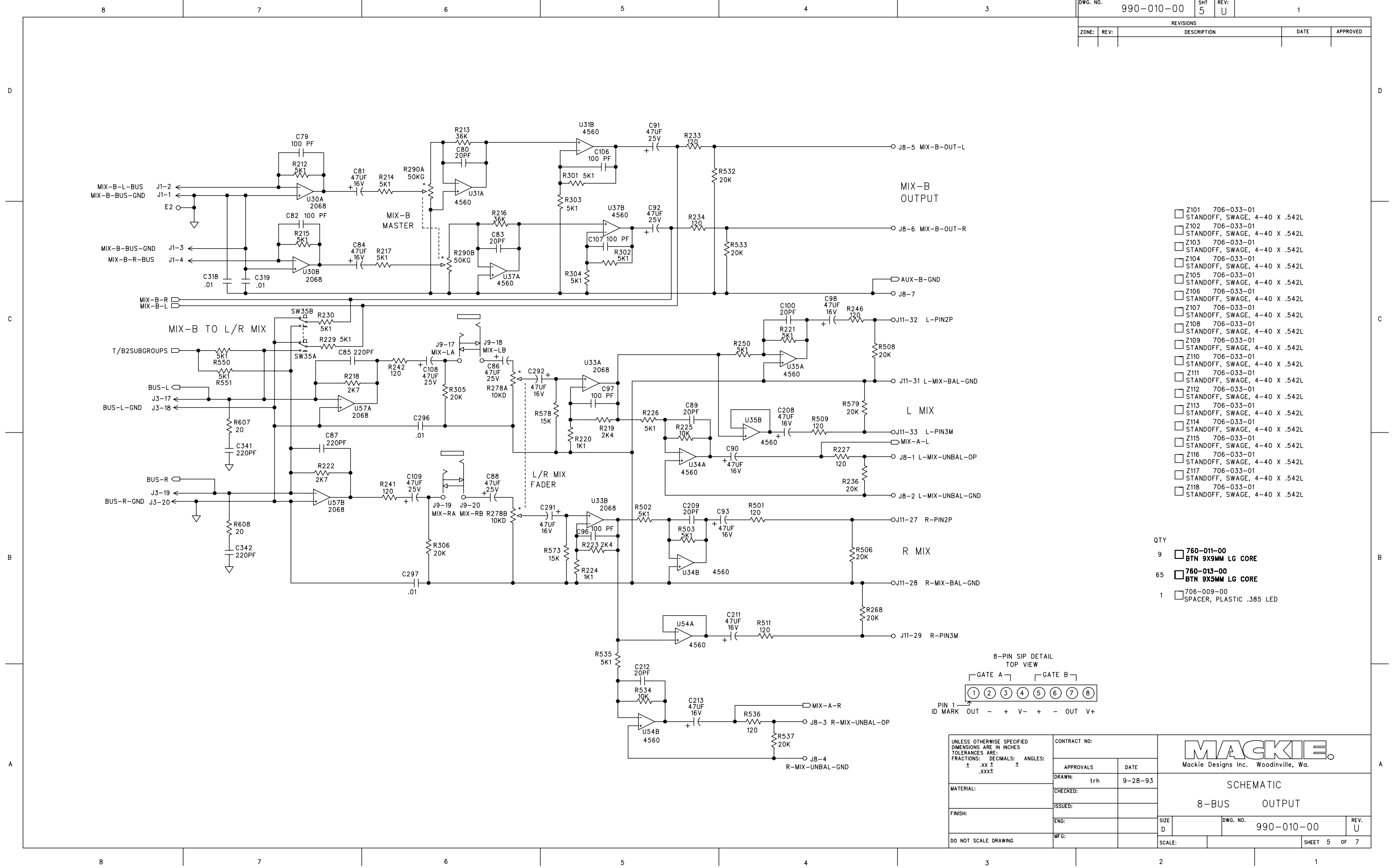
D
C
B
A

D
C
B
A



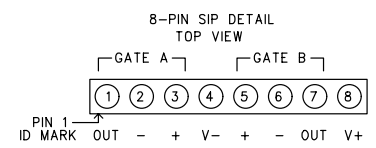
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: .xx ± DECIMALS: .xxx ±	CONTRACT NO:		 Mackie Designs Inc. Woodinville, Wa.		
	APPROVALS	DATE			
MATERIAL:	DRAWN: trh	9-28-93	SCHEMATIC 8-BUS OUTPUT		
FINISH:	CHECKED:	ISSUED:			
DO NOT SCALE DRAWING	ENG:	MFG:	SIZE D	DWG. NO. 990-010-00	REV. U
			SCALE:		SHEET 4 OF 7

DWG. NO.	990-010-00	SHT	5	REV.	U
REVISIONS					
ZONE:	REV:	DESCRIPTION	DATE	APPROVED	

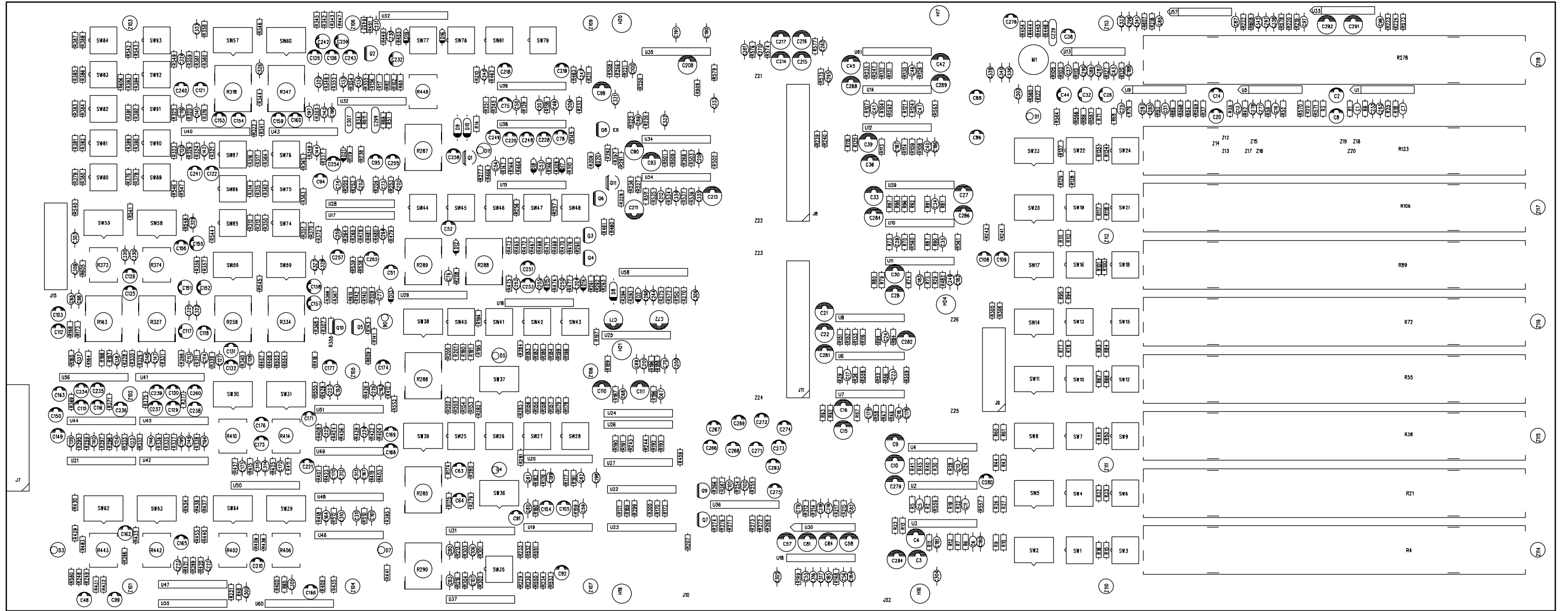


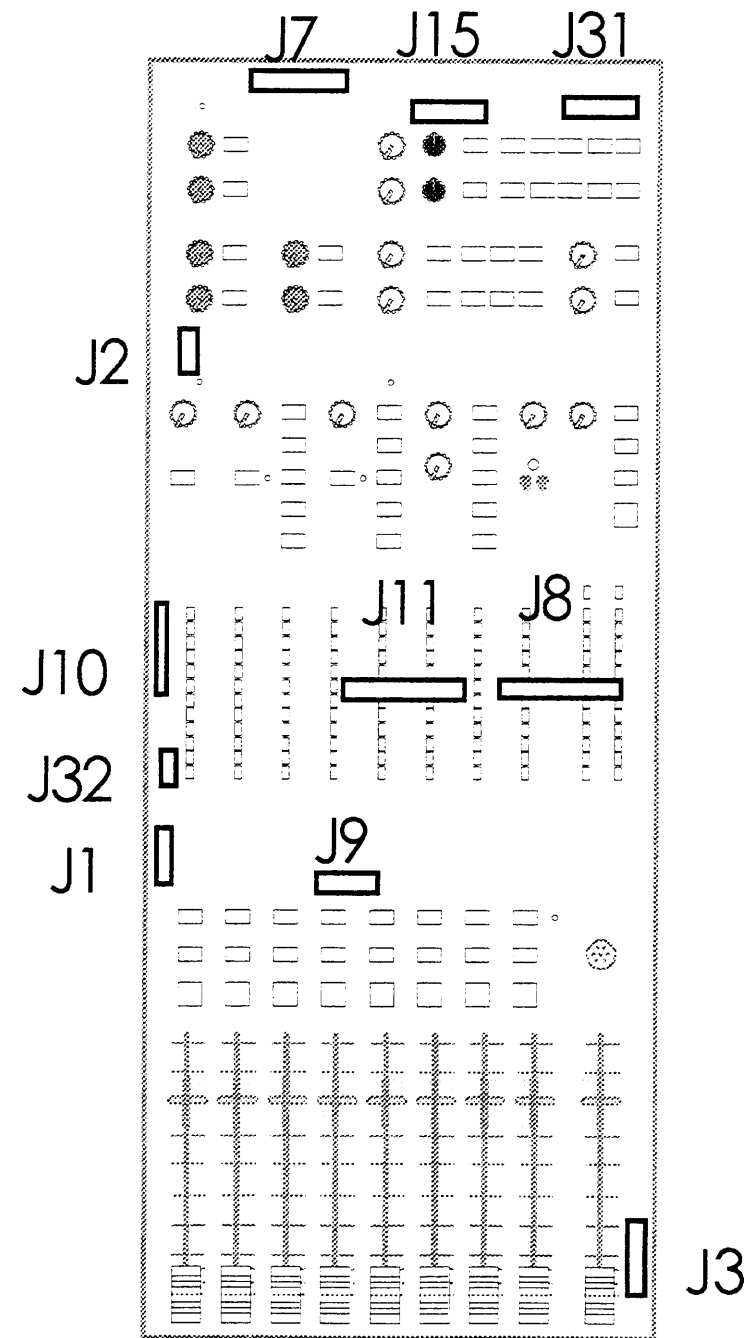
- Z101 706-033-01
- STANDOFF, SWAGE, 4-40 X .542L
- Z102 706-033-01
- STANDOFF, SWAGE, 4-40 X .542L
- Z103 706-033-01
- STANDOFF, SWAGE, 4-40 X .542L
- Z104 706-033-01
- STANDOFF, SWAGE, 4-40 X .542L
- Z105 706-033-01
- STANDOFF, SWAGE, 4-40 X .542L
- Z106 706-033-01
- STANDOFF, SWAGE, 4-40 X .542L
- Z107 706-033-01
- STANDOFF, SWAGE, 4-40 X .542L
- Z108 706-033-01
- STANDOFF, SWAGE, 4-40 X .542L
- Z109 706-033-01
- STANDOFF, SWAGE, 4-40 X .542L
- Z110 706-033-01
- STANDOFF, SWAGE, 4-40 X .542L
- Z111 706-033-01
- STANDOFF, SWAGE, 4-40 X .542L
- Z112 706-033-01
- STANDOFF, SWAGE, 4-40 X .542L
- Z113 706-033-01
- STANDOFF, SWAGE, 4-40 X .542L
- Z114 706-033-01
- STANDOFF, SWAGE, 4-40 X .542L
- Z115 706-033-01
- STANDOFF, SWAGE, 4-40 X .542L
- Z116 706-033-01
- STANDOFF, SWAGE, 4-40 X .542L
- Z117 706-033-01
- STANDOFF, SWAGE, 4-40 X .542L
- Z118 706-033-01
- STANDOFF, SWAGE, 4-40 X .542L

- QTY
- 9 760-011-00
BTN 9X9MM LG CORE
 - 65 760-013-00
BTN 9X5MM LG CORE
 - 1 706-009-00
SPACER, PLASTIC .385 LED



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ±.xx ± ±.xxx ±	CONTRACT NO:		 Mackie Designs Inc. Woodinville, Wa.
	APPROVALS:	DATE:	
	DRAWN: trh	9-28-93	
	CHECKED:		
MATERIAL:	CHECKED:		SCHEMATIC 8-BUS OUTPUT
FINISH:	ISSUED:		
DO NOT SCALE DRAWING	ENG:		
	MFG:		
		SIZE: D	DWG. NO. 990-010-00
		SCALE:	REV. U
			SHEET 5 OF 7





J1

AGND	1	2	L-MIX-B-BUS
AGND	3	4	R-MIX-B-BUS
AGND	5	6	L-SOLO-BUS
AGND	7	8	R-SOLO-BUS
SOLO-CTL	9	10	FLASH-BUS
DGND	11	12	DGND
+5V	13	14	+5V

J2

AUX-1-BUS	1	2	AGND
AUX-2-BUS	3	4	AGND
AUX-3-BUS	5	6	AGND
AUX-5-BUS	7	8	AGND
AUX-4-BUS	9	10	AUX-6-BUS

J3

BUS-1	1	2	AGND
BUS-2	3	4	AGND
BUS-3	5	6	AGND
BUS-4	7	8	AGND
BUS-5	9	10	AGND
BUS-6	11	12	AGND
BUS-7	13	14	AGND
BUS-8	15	16	AGND
BUS-L	17	18	AGND
BUS-R	19	20	AGND

J7

AUX 1 OUT +	1	2	AUX 1 OUT -
AUX 1 OUT GND	3	4	AUX 2 OUT +
AUX 2 OUT -	5	6	AUX 2 OUT GND
AUX 3 OUT	7	8	AUX 4 OUT
AUX 5 OUT	9	10	AUX 6 OUT
AUX 3-6 GND	11	12	AUX 3-6 GND
AUX 1 RTN L	13	14	AUX 1 RTN R
AUX 2 RTN L	15	16	AUX 2 RTN R
AUX 3 RTN L	17	18	AUX 3 RTN R
AUX 4 RTN L	19	20	AUX 4 RTN R
AUX 5 RTN L	21	22	AUX 5 RTN R
AUX 6 RTN L	23	24	AUX 6 RTN R
AUX RTN GND	25	26	AUX RTN GND

J8

L MIX UNBAL OUT	1	2	L MIX UNBAL GND
R MIX UNBAL OUT	3	4	R MIX UNBAL GND
MIX B OUT L	5	6	MIX B OUT R
MIX B GND	7	8	CONTROL ROOM R
CONTROL ROOM L	9	10	CONTROL ROOM GND
STUDIO L	11	12	STUDIO R
STUDIO GND	13	14	PHONES 1 R
PHONES 1 L	15	16	PHONES 1 GND
PHONES 2 L	17	18	PHONES 2 R
PHONES 2 GND	19	20	R METER B
L METER B	21	22	2 TRK/EXT GND
2 TRK L	23	24	2 TRK R
EXT IN L	25	26	EXT IN R
-16V	27	28	-16V
+16V	29	30	+16V
+5V	31	32	+5V
DGND	33	34	DGND

J9

SUB 1 INS SEND	1	2	SUB 1 INS RTN
SUB 2 INS SEND	3	4	SUB 2 INS RTN
SUB 3 INS SEND	5	6	SUB 3 INS RTN
SUB 4 INS SEND	7	8	SUB 4 INS RTN
SUB 5 INS SEND	9	10	SUB 5 INS RTN
SUB 6 INS SEND	11	12	SUB 6 INS RTN
SUB 7 INS SEND	13	14	SUB 6 INS RTN
SUB 8 INS SEND	15	16	SUB 8 INS RTN
L MIX INS SEND	17	18	L MIX INS RTN
R MIX INS SEND	19	20	R MIX INS RTN

J10

SUB 1 TO METER	1
SUB 2 TO METER	2
SUB 3 TO METER	3
SUB 4 TO METER	4
SUB 5 TO METER	5
SUB 6 TO METER	6
SUB 7 TO METER	7
SUB 8 TO METER	8
L TO METER	9
R TO METER	10
SUB METER MUTE	11
DGND	12
+5V	13
DGND	14

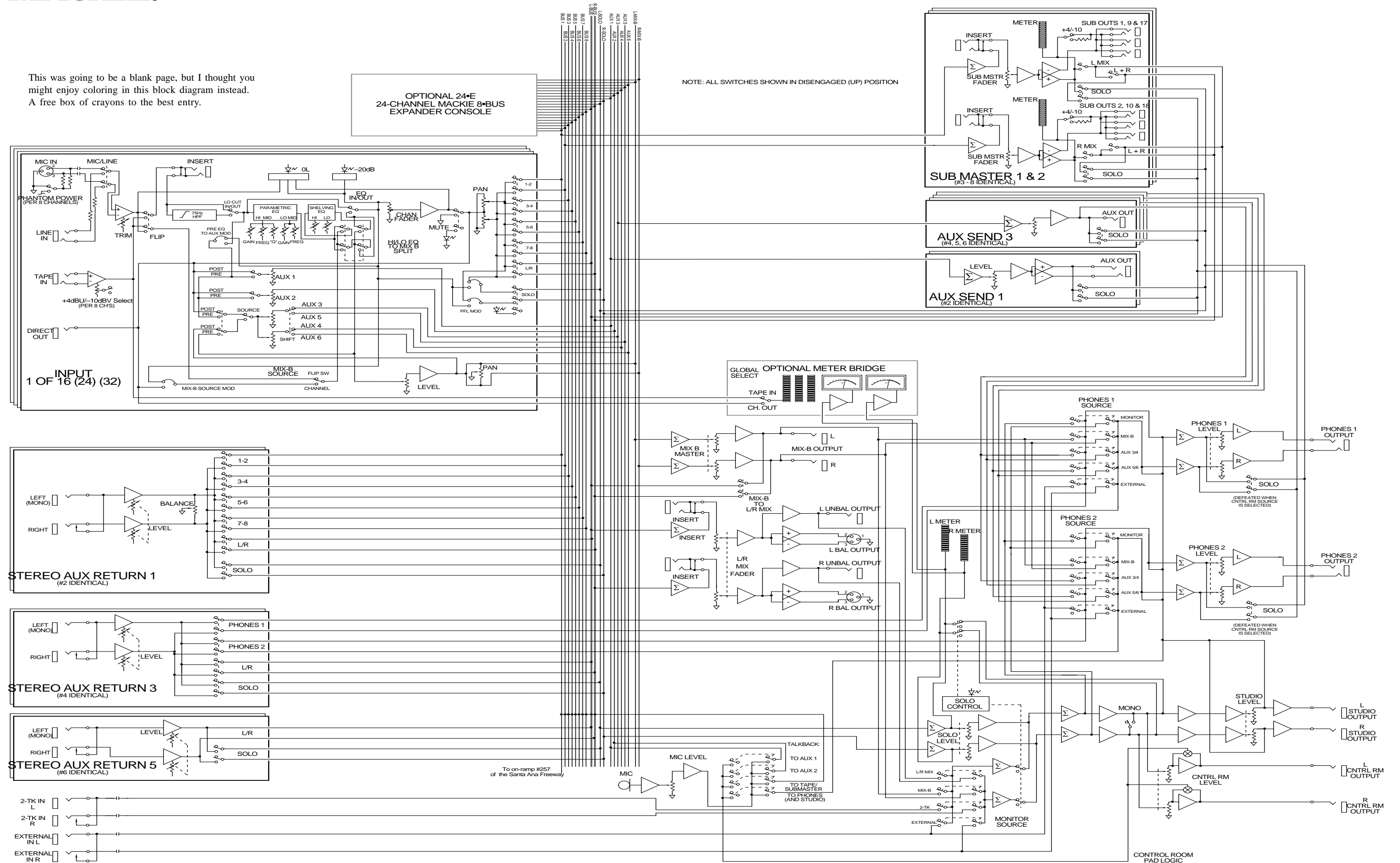
J11

SUB 1 OUT +	1	2	SUB 1 OUT -
SUB 1 OUT GND	3	4	SUB 2 OUT GND
SUB 2 OUT -	5	6	SUB 2 OUT +
SUB 3 OUT -	7	8	SUB 3 OUT +
SUB 3 OUT GND	9	10	SUB 4 OUT GND
SUB 4 OUT -	11	12	SUB 4 OUT +
SUB 5 OUT -	13	14	SUB 5 OUT +
SUB 5 OUT GND	15	16	SUB 6 OUT GND
SUB 6 OUT -	17	18	SUB 6 OUT +
SUB 7 OUT -	19	20	SUB 7 OUT +
SUB 7 OUT GND	21	22	SUB 8 OUT -
SUB 8 OUT GND	23	24	SUB 8 OUT GND
AGND	25	26	AGND
R OUT +	27	28	R OUT GND
R OUT -	29	30	AGND
L OUT GND	31	32	L OUT +
L OUT -	33	34	AGND

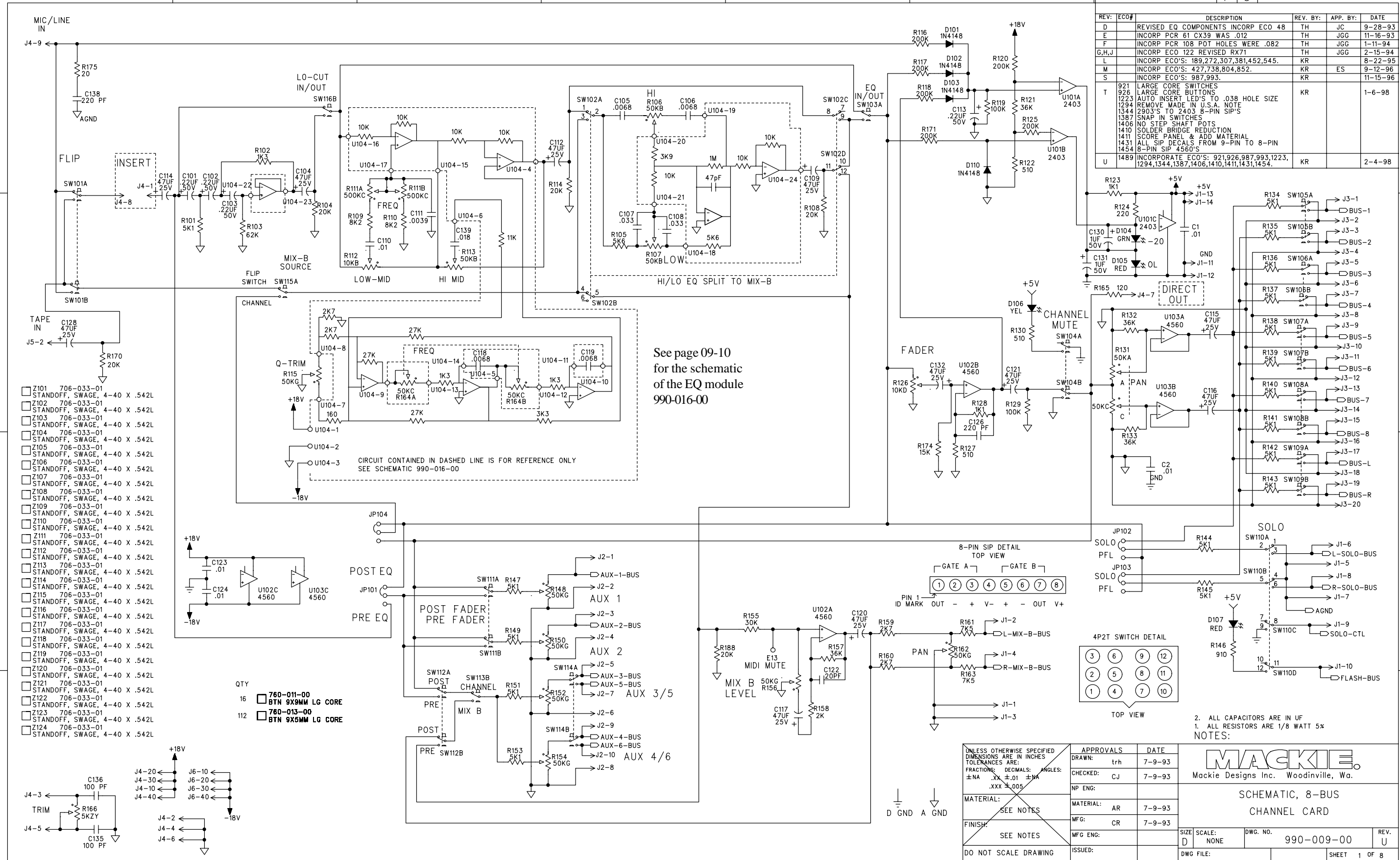
J15

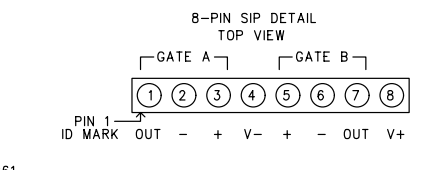
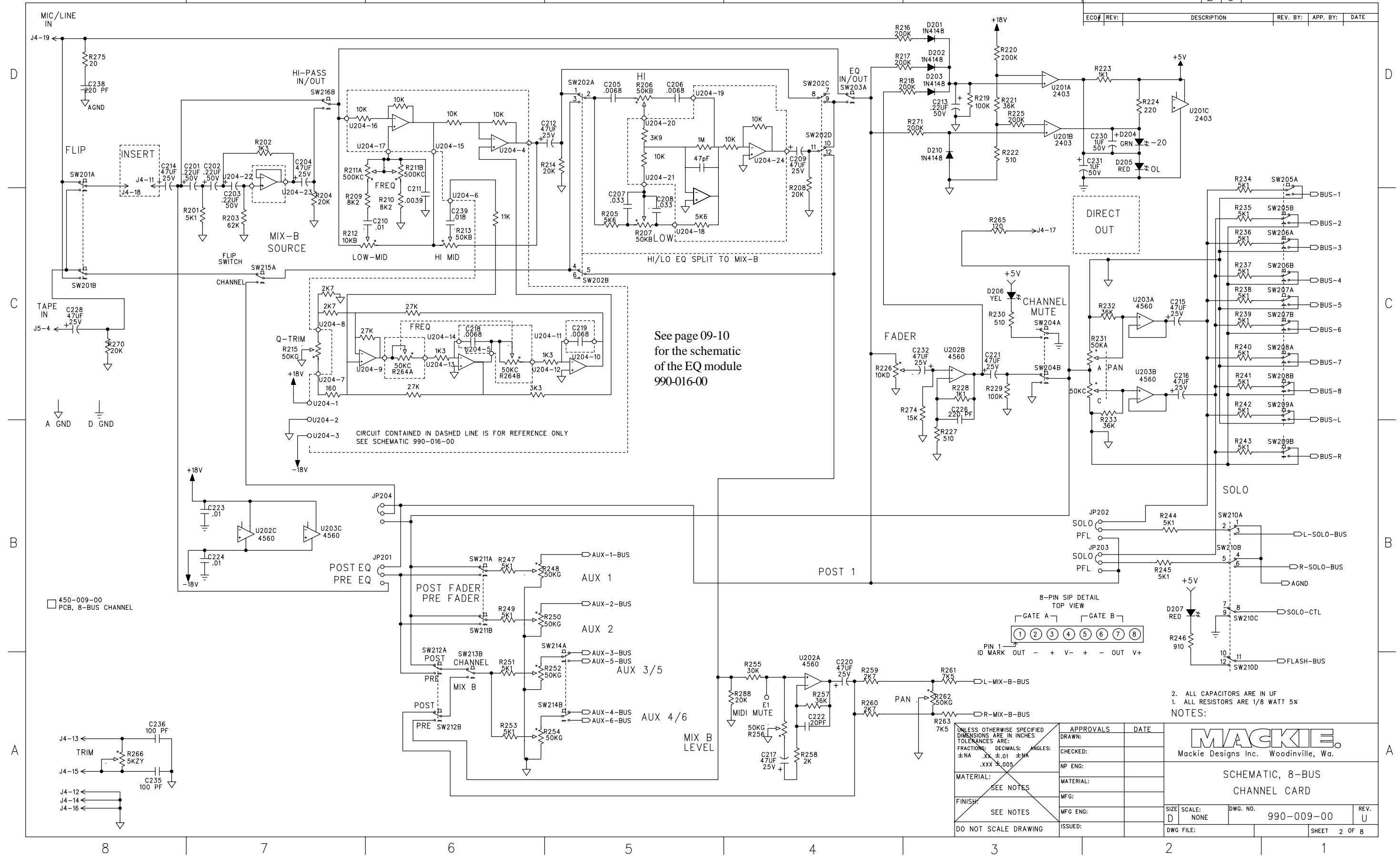
DGND	1
+5V	2
+12V	3
+48V	4
+16V	5
AGND	6
-18V	7

This was going to be a blank page, but I thought you might enjoy coloring in this block diagram instead. A free box of crayons to the best entry.



REV.	ECO#	DESCRIPTION	REV. BY:	APP. BY:	DATE
D		REVISED EQ COMPONENTS INCORP ECO 48	TH	JC	9-28-93
E		INCORP PCR 61 CX39 WAS .012	TH	JGG	11-16-93
F		INCORP PCR 108 POT HOLES WERE .082	TH	JGG	1-11-94
G,H,J		INCORP ECO 122 REVISED RX71	TH	JGG	2-15-94
L		INCORP ECO'S: 189,272,307,381,452,545.	KR		8-22-95
M		INCORP ECO'S: 427,738,804,852.	KR	ES	9-12-96
S		INCORP ECO'S: 987,993.	KR		11-15-96
T	921	LARGE CORE SWITCHES			
	926	LARGE CORE BUTTONS			
	1223	AUTO INSERT LED'S TO .038 HOLE SIZE			
	1294	REMOVE MADE IN U.S.A. NOTE			
	1344	2903'S TO 2403 8-PIN SIP'S			
	1387	SNAP IN SWITCHES			
	1406	NO STEP SHAFT POTS			
	1410	SOLDER BRIDGE REDUCTION			
	1411	SCORE PANEL & AD MATERIAL			
	1431	ALL SIP DECALS FROM 9-PIN TO 8-PIN			
	1454	8-PIN SIP 4560'S			
U	1489	INCORPORATE ECO'S: 921,926,987,993,1223,1294,1344,1387,1406,1410,1411,1431,1454.	KR		2-4-98

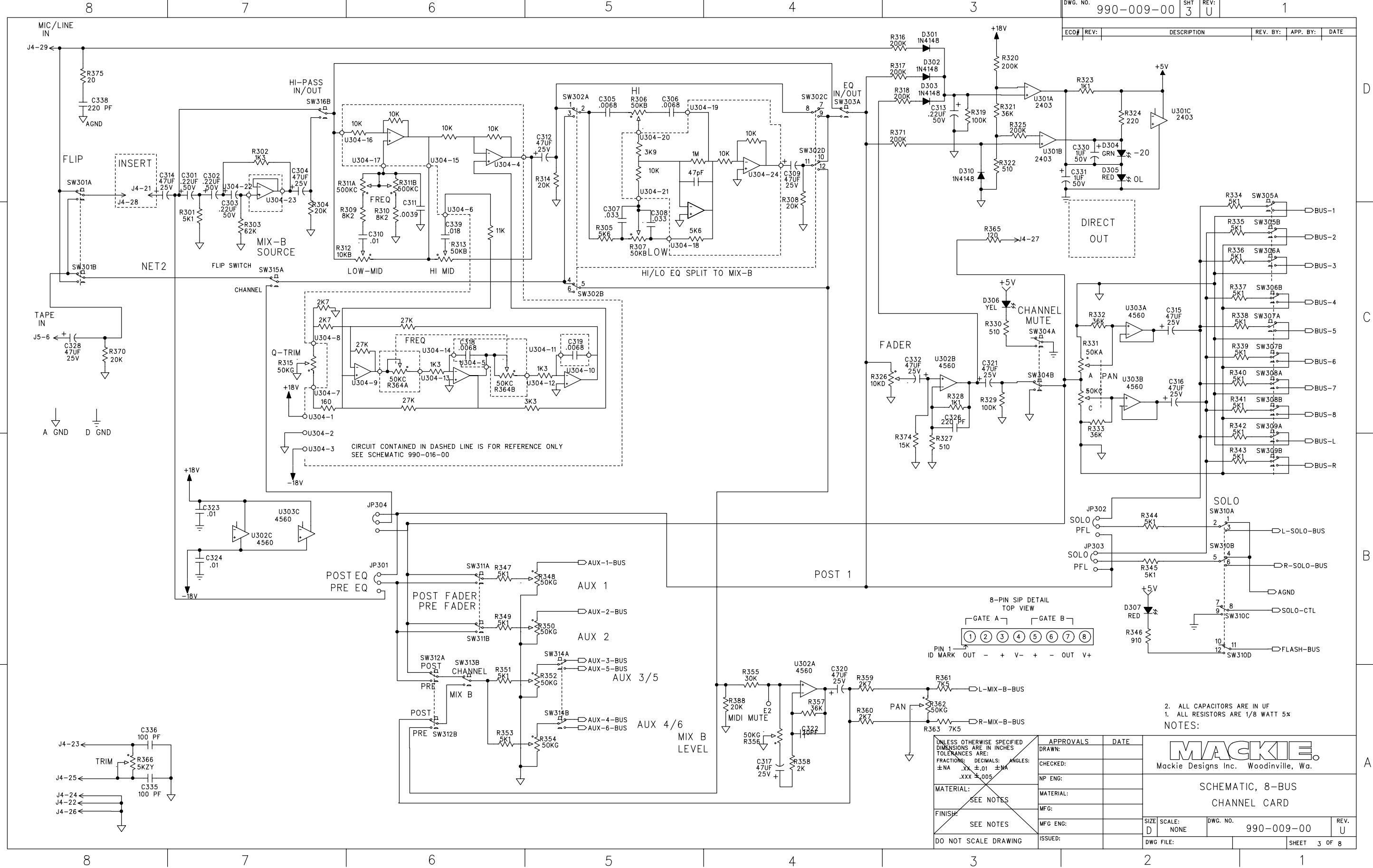




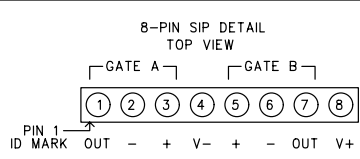
2. ALL CAPACITORS ARE IN UF
1. ALL RESISTORS ARE 1/8 WATT 5%

NOTES:

APPROVALS	DATE	<p>Mackie Designs Inc. Woodinville, Wa.</p>								
DRAWN:										
CHECKED:										
NP ENG:										
MATERIAL:	MATERIAL:	<p>SCHMATIC, 8-BUS CHANNEL CARD</p>								
FINISH:	MFG:									
DO NOT SCALE DRAWING	ISSUED:	<table border="1"> <tr> <td>SIZE D</td> <td>SCALE NONE</td> <td>DWG. NO. 990-009-00</td> <td>REV. U</td> </tr> <tr> <td colspan="2">DWG FILE:</td> <td colspan="2">SHEET 2 OF 8</td> </tr> </table>	SIZE D	SCALE NONE	DWG. NO. 990-009-00	REV. U	DWG FILE:		SHEET 2 OF 8	
SIZE D	SCALE NONE	DWG. NO. 990-009-00	REV. U							
DWG FILE:		SHEET 2 OF 8								



ECO#	REV.	DESCRIPTION	REV. BY.	APP. BY.	DATE



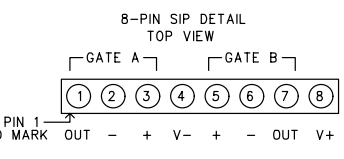
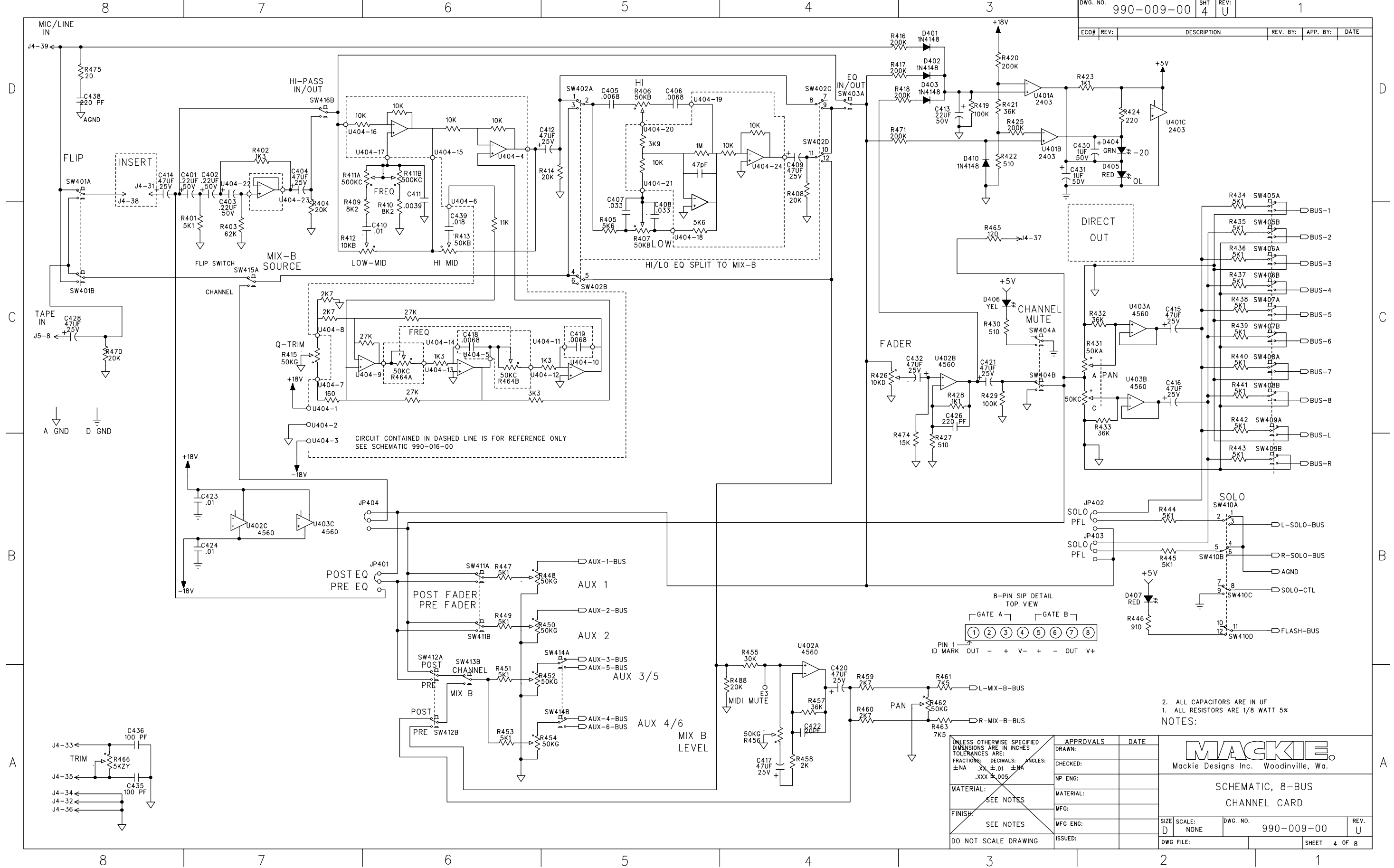
- NOTES:
1. ALL RESISTORS ARE 1/8 WATT 5%
 2. ALL CAPACITORS ARE IN UF

APPROVALS	DATE
DRAWN:	
CHECKED:	
NP ENG:	
MATERIAL:	
MFG:	
MFG ENG:	
ISSUED:	

MACKIE
Mackie Designs Inc. Woodinville, Wa.

SCHMATIC, 8-BUS CHANNEL CARD

SIZE	SCALE: NONE	DWG. NO.	990-009-00	REV.	U
DWG. FILE:				SHEET	3 OF 8

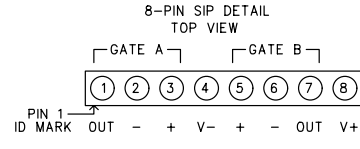
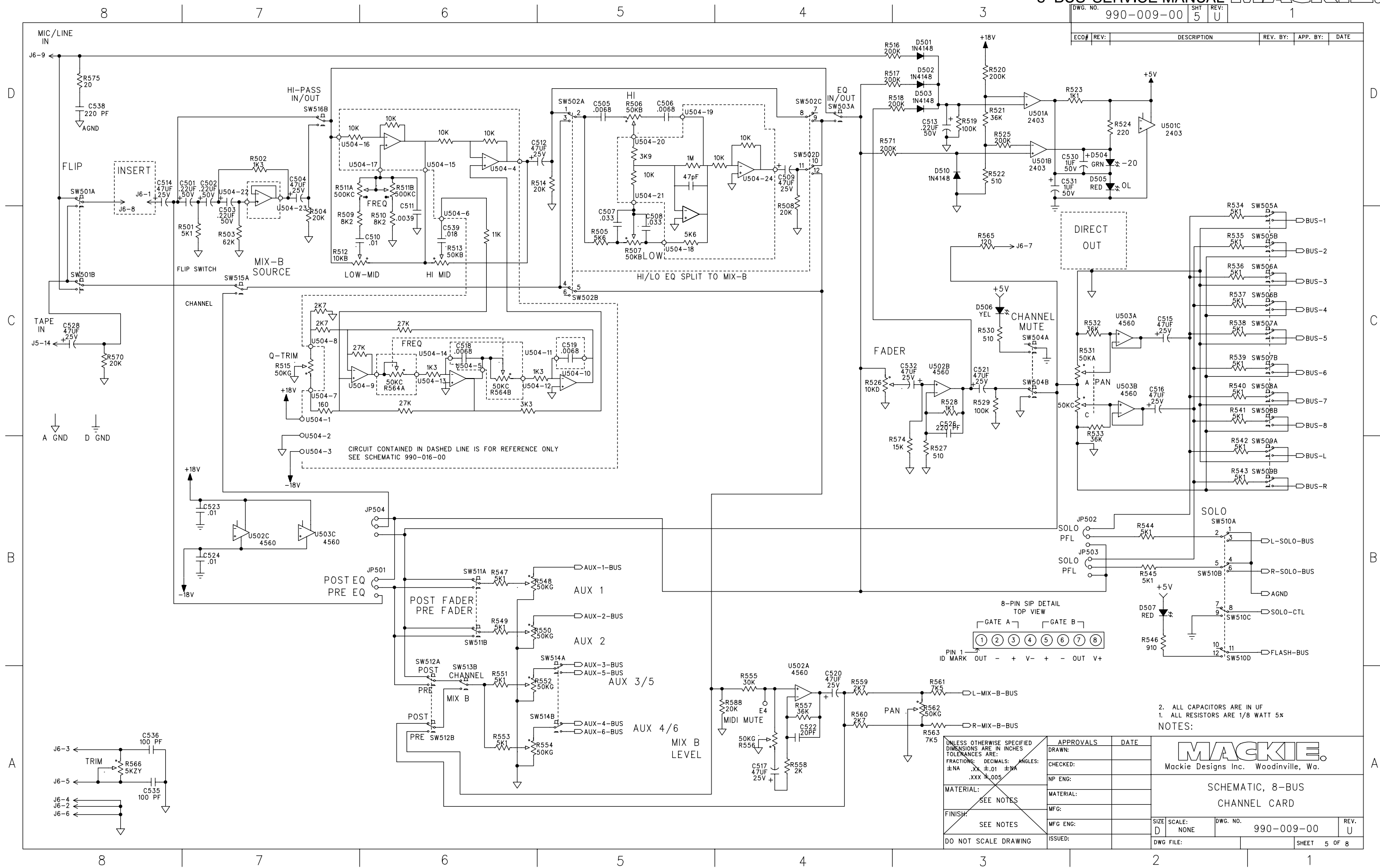


2. ALL CAPACITORS ARE IN UF
 1. ALL RESISTORS ARE 1/8 WATT 5%
 NOTES:

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS: DECIMALS: ANGLES: ±NA .XX ±.01 ±NA .XXX ±.005	APPROVALS	DATE
MATERIAL: SEE NOTES	DRAWN:	
FINISH: SEE NOTES	CHECKED:	
DO NOT SCALE DRAWING	NP ENG:	
	MATERIAL:	
	MFG:	
	MFG ENG:	
	ISSUED:	

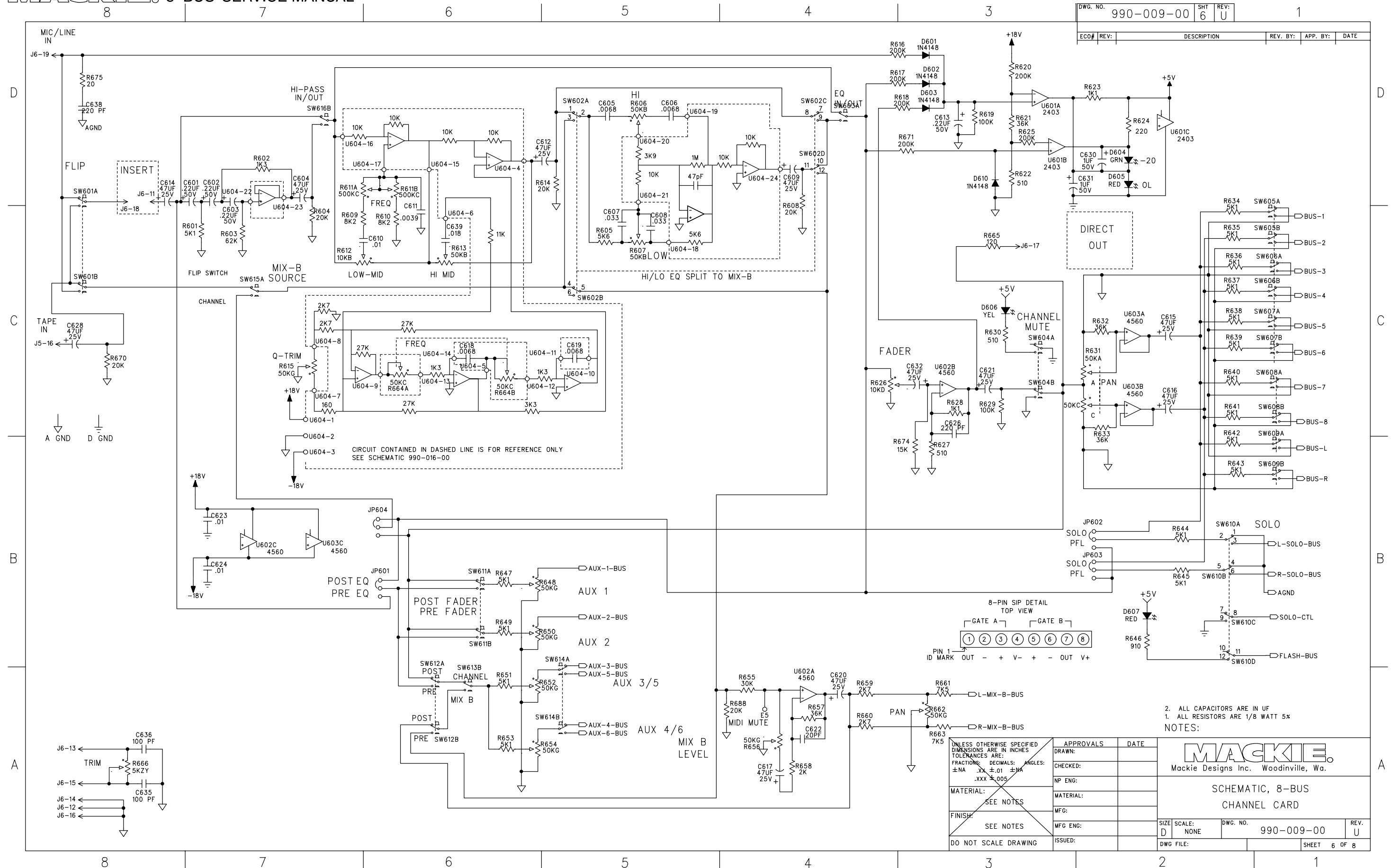
MACKIE.
 Mackie Designs Inc. Woodinville, Wa.
 SCHEMATIC, 8-BUS
 CHANNEL CARD

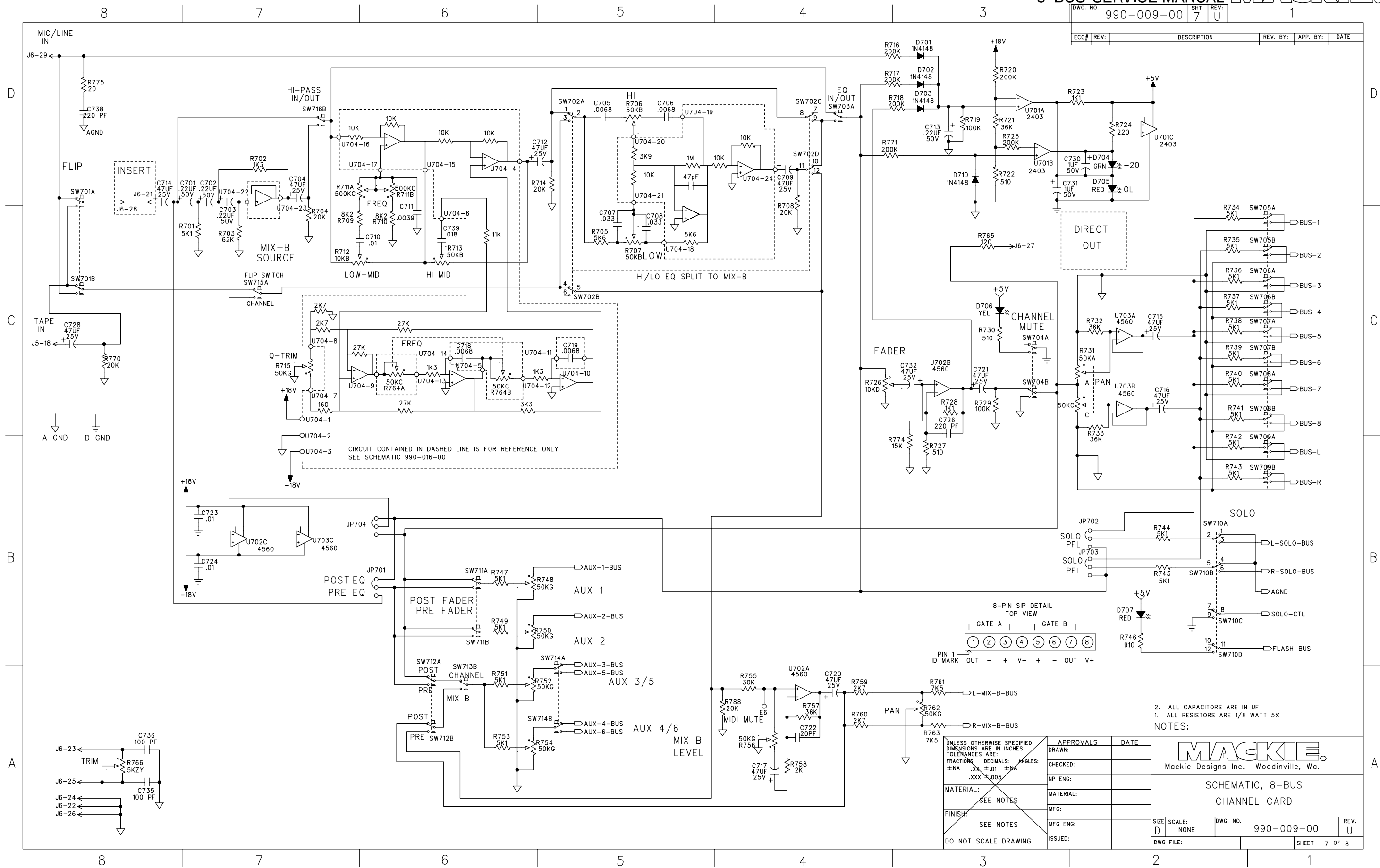
SIZE: D	SCALE: NONE	DWG. NO. 990-009-00	REV. U
DWG FILE:		SHEET 4 OF 8	



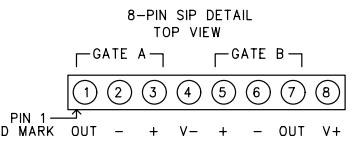
- NOTES:
 2. ALL CAPACITORS ARE IN UF
 1. ALL RESISTORS ARE 1/8 WATT 5%

APPROVALS	DATE	 Mackie Designs Inc. Woodinville, Wa.
DRAWN:		
CHECKED:		
NP ENG:		
MATERIAL:		SCHEMATIC, 8-BUS CHANNEL CARD
MFG:		
MFG ENG:		
ISSUED:		
DO NOT SCALE DRAWING		SIZE SCALE: NONE DWG. NO. 990-009-00 REV. U SHEET 5 OF 8



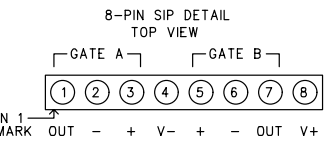
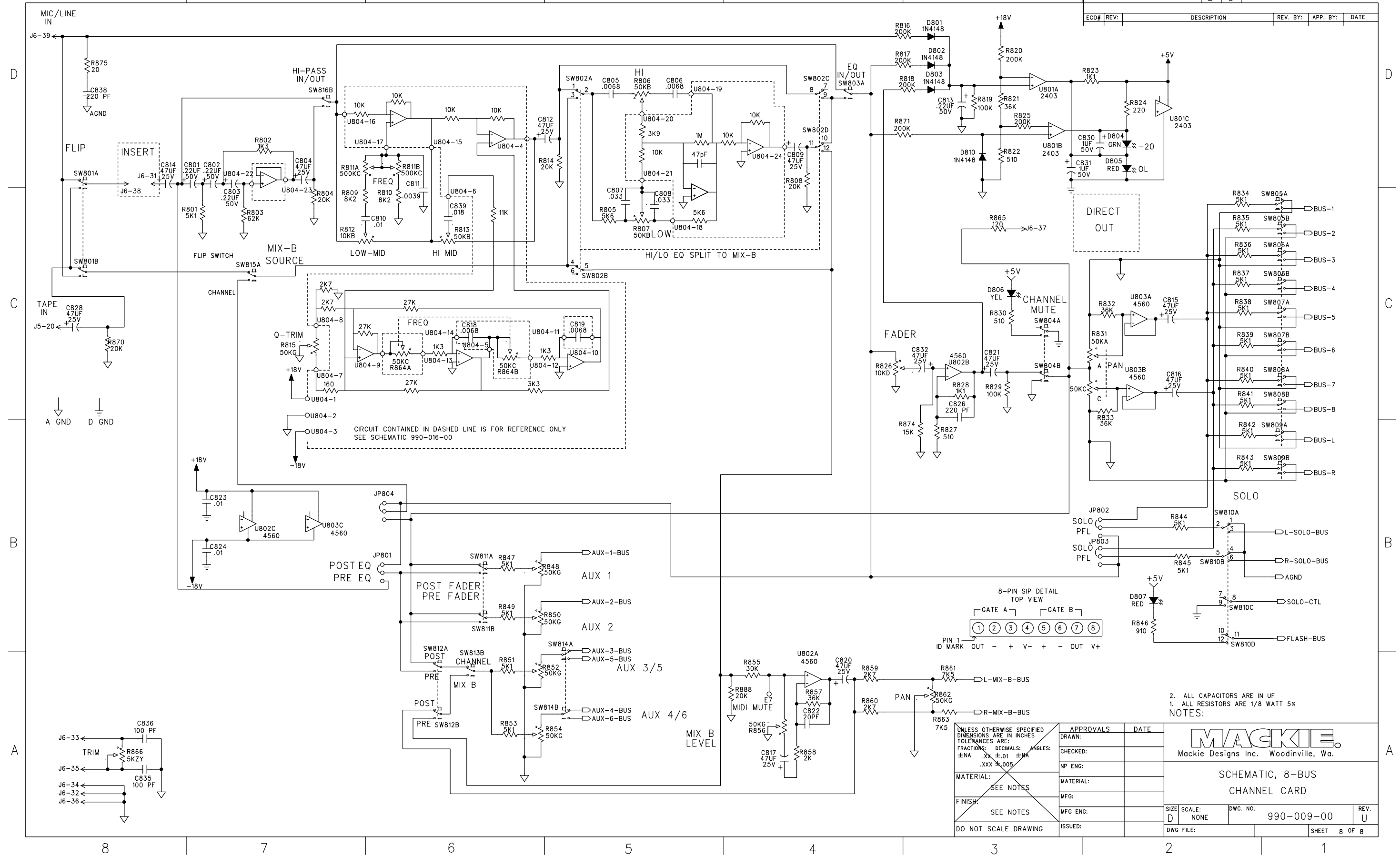


CIRCUIT CONTAINED IN DASHED LINE IS FOR REFERENCE ONLY SEE SCHEMATIC 990-016-00



- 2. ALL CAPACITORS ARE IN UF
- 1. ALL RESISTORS ARE 1/8 WATT 5%

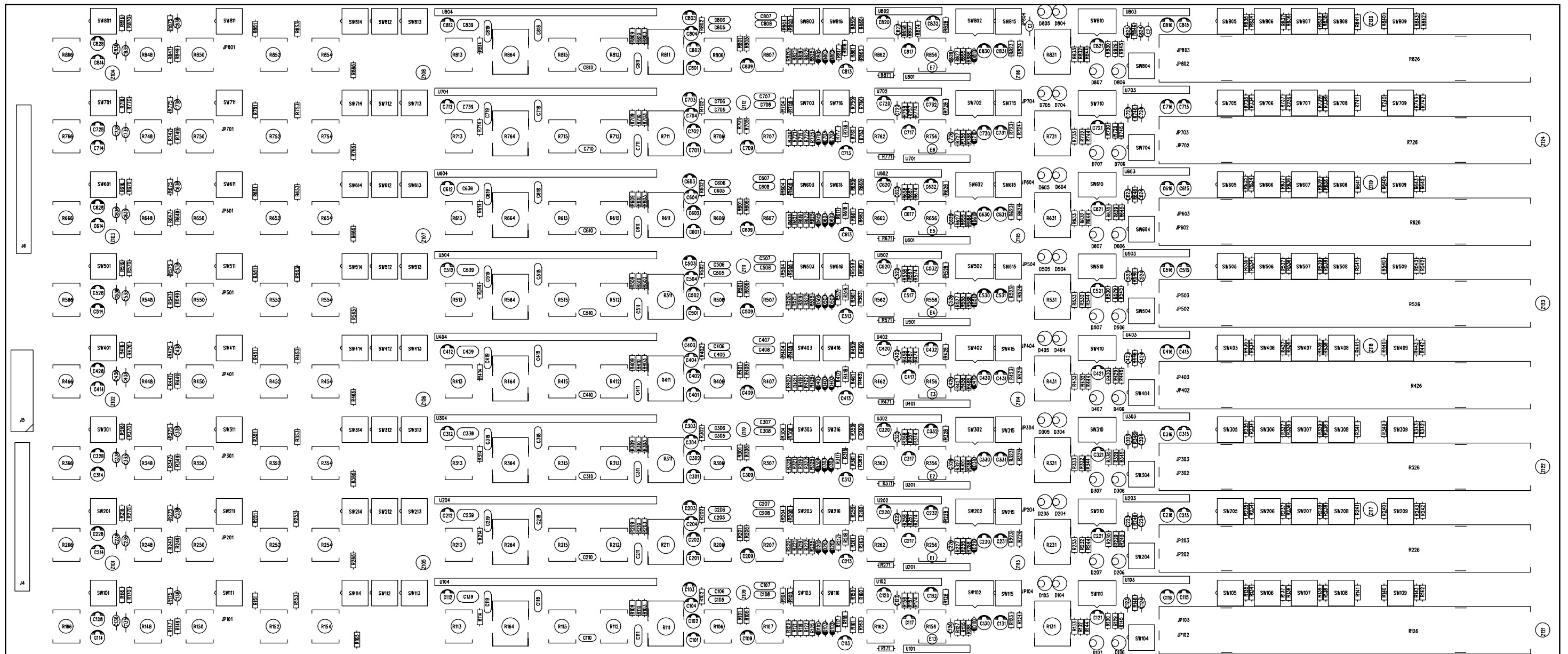
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ±NA ±.XX ±.01 ±NA .XXX ±.005 MATERIAL: SEE NOTES FINISH: SEE NOTES DO NOT SCALE DRAWING	APPROVALS	DATE	MACKIE Mackie Designs Inc. Woodinville, Wa. SCHEMATIC, 8-BUS CHANNEL CARD
	DRAWN:		
	CHECKED:		
	NP ENG:		
	MATERIAL:		
	MFG:		
	MFG ENG:		SIZE SCALE: NONE DWG. NO. 990-009-00 REV. U
	ISSUED:		DWG. FILE: SHEET 7 OF 8



2. ALL CAPACITORS ARE IN UF
1. ALL RESISTORS ARE 1/8 WATT 5%

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVALS	DATE
FRACTIONS: DECIMALS: ANGLES:	DRAWN:	
TOLERANCES ARE:	CHECKED:	
±NA .XX ±.01 ±NA	NP ENG:	
.XXX ±.005	MATERIAL:	
MATERIAL:	MFG:	
SEE NOTES	MFG ENG:	
FINISH:	ISSUED:	
SEE NOTES		
DO NOT SCALE DRAWING		

MACKIE. Mackie Designs Inc. Woodinville, Wa.	
SCHEMATIC, 8-BUS CHANNEL CARD	
SIZE: D	SCALE: NONE
DWG. NO. 990-009-00	REV. U
DWG FILE:	SHEET 8 OF 8



J1

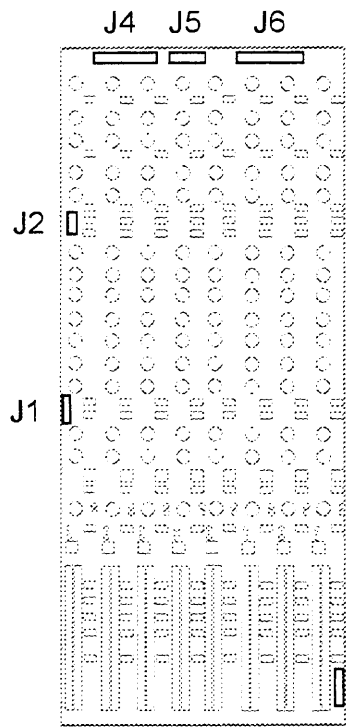
AGND	1	2	L-MIX-B-BUS
AGND	3	4	R-MIX-B-BUS
AGND	5	6	L-SOLO-BUS
AGND	7	8	R-SOLO-BUS
SOLO-CTL	9	10	FLASH-BUS
DGND	11	12	DGND
+5V	13	14	+5V

J2

AUX-1-BUS	1	2	AGND
AUX-2-BUS	3	4	AGND
AUX-3-BUS	5	6	AGND
AUX-5-BUS	7	8	AGND
AUX-4-BUS	9	10	AUX-6-BUS

J3

BUS-1	1	2	AGND
BUS-2	3	4	AGND
BUS-3	5	6	AGND
BUS-4	7	8	AGND
BUS-5	9	10	AGND
BUS-6	11	12	AGND
BUS-7	13	14	AGND
BUS-8	15	16	AGND
BUS-L	17	18	AGND
BUS-R	19	20	AGND



J4

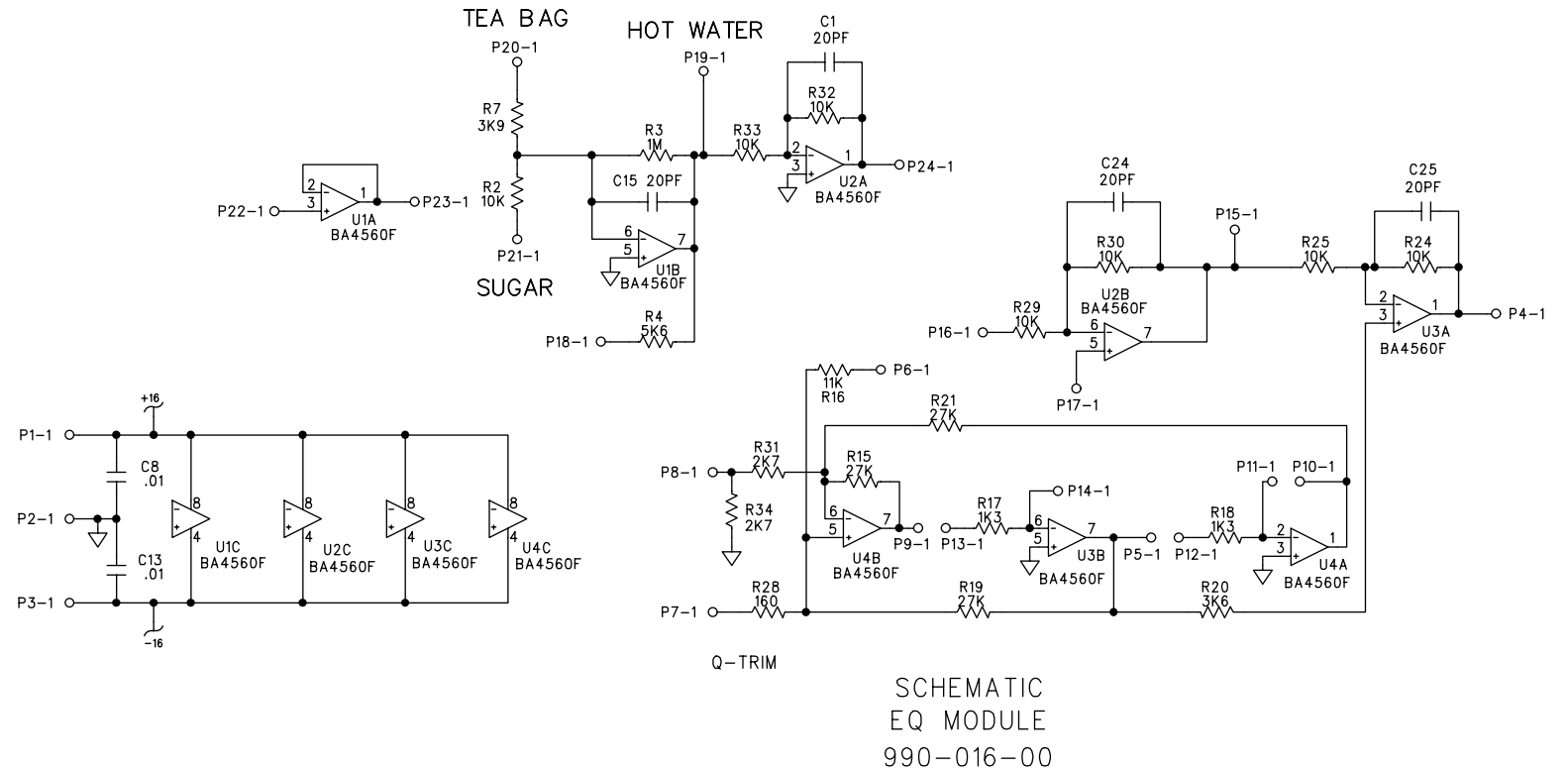
CHANNEL 1 INS RTN	1	2	CHANNEL 1 GND
CHANNEL 1 TRIM	3	4	CHANNEL 1 GND
CHANNEL 1 TRIM	5	6	CHANNEL 1 GND
CHANNEL 1 DI OUT	7	8	CHANNEL 1 INS SEND
CHANNEL 1 PRE OUT	9	10	+16V
CHANNEL 2 INS RTN	11	12	CHANNEL 2 GND
CHANNEL 2 TRIM	13	14	CHANNEL 2 GND
CHANNEL 2 TRIM	15	16	CHANNEL 2 GND
CHANNEL 2 DI OUT	17	18	CHANNEL 2 INS SEND
CHANNEL 2 PRE OUT	19	20	+16V
CHANNEL 3 INS RTN	21	22	CHANNEL 3 GND
CHANNEL 3 TRIM	23	24	CHANNEL 3 GND
CHANNEL 3 TRIM	25	26	CHANNEL 3 GND
CHANNEL 3 DI OUT	27	28	CHANNEL 3 INS SEND
CHANNEL 3 PRE OUT	29	30	+16V
CHANNEL 4 INS RTN	31	32	CHANNEL 4 GND
CHANNEL 4 TRIM	33	34	CHANNEL 4 GND
CHANNEL 4 TRIM	35	36	CHANNEL 4 GND
CHANNEL 4 DI OUT	37	38	CHANNEL 4 INS SEND
CHANNEL 4 PRE OUT	39	40	+16V

J5

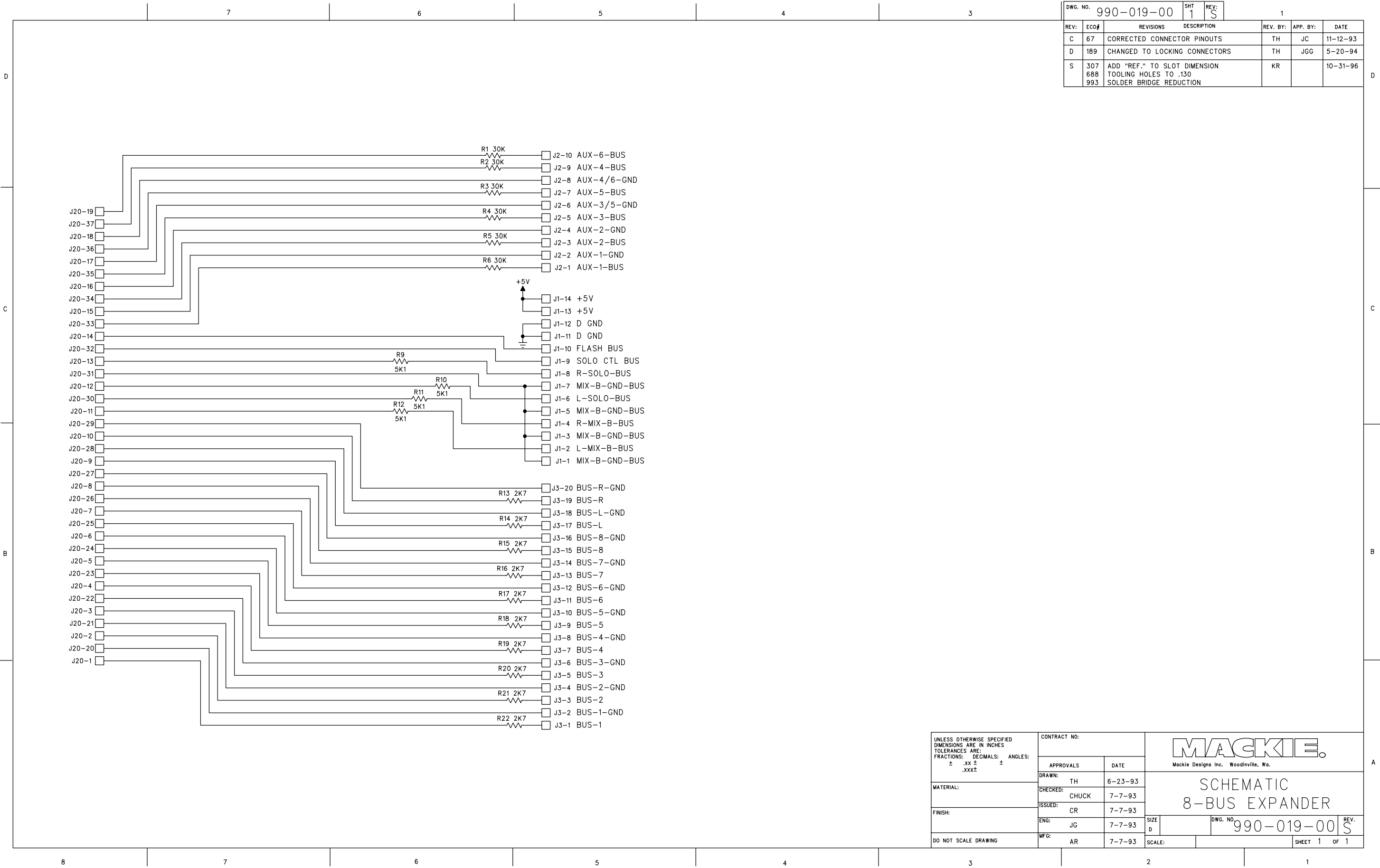
N/C	1	2	TAPE RTN 1
N/C	3	4	TAPE RTN 2
N/C	5	6	TAPE RTN 3
N/C	7	8	TAPE RTN 4
DGND	9	10	+5V
-16V	11	12	+16V
N/C	13	14	TAPE RTN 5
N/C	15	16	TAPE RTN 6
N/C	17	18	TAPE RTN 7
N/C	19	20	TAPE RTN 8

J6

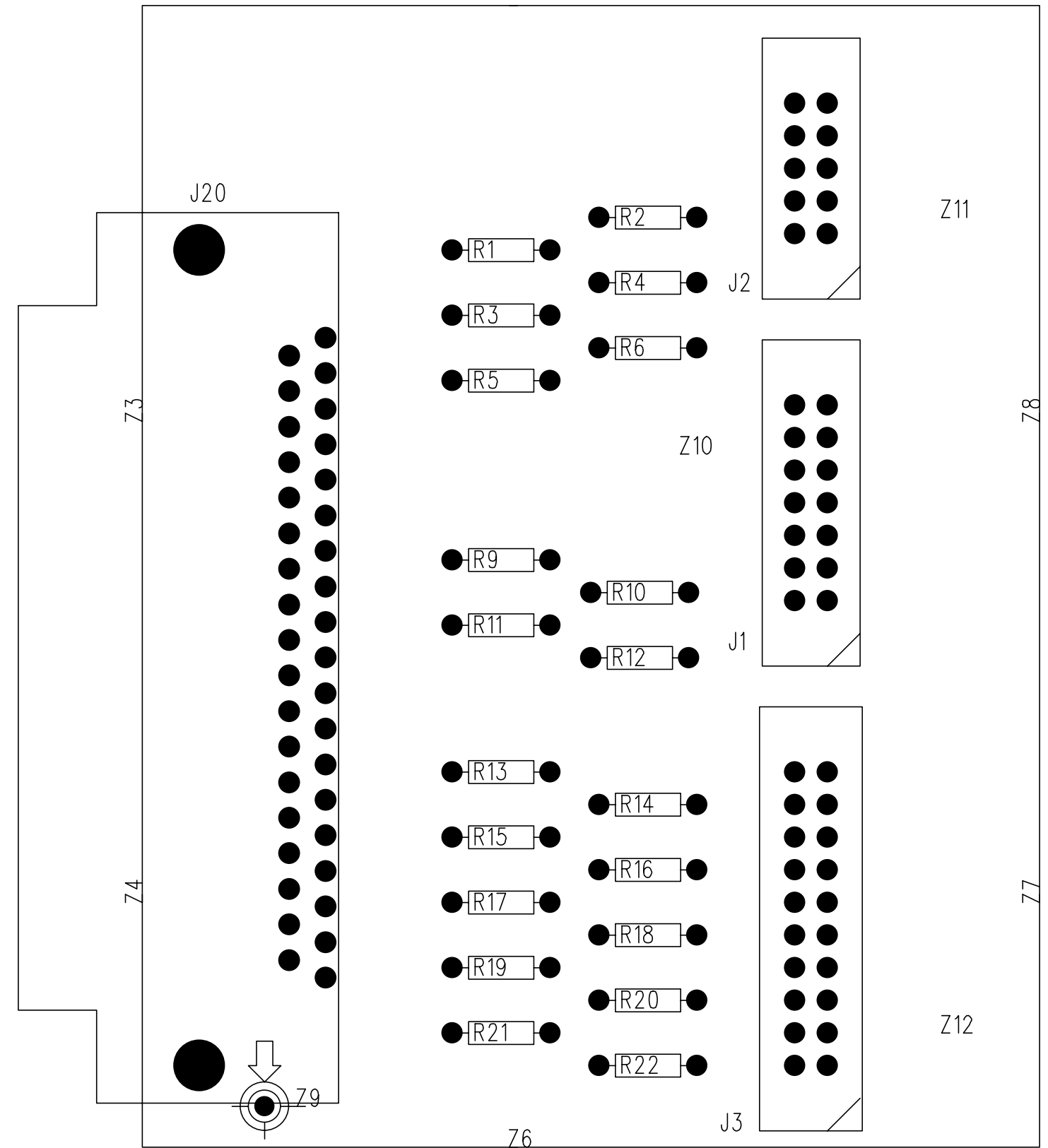
CHANNEL 5 INS RTN	1	2	CHANNEL 5 GND
CHANNEL 5 TRIM	3	4	CHANNEL 5 GND
CHANNEL 5 TRIM	5	6	CHANNEL 5 GND
CHANNEL 5 DI OUT	7	8	CHANNEL 5 INS SEND
CHANNEL 5 PRE OUT	9	10	-16V
CHANNEL 6 INS RTN	11	12	CHANNEL 6 GND
CHANNEL 6 TRIM	13	14	CHANNEL 6 GND
CHANNEL 6 TRIM	15	16	CHANNEL 6 GND
CHANNEL 6 DI OUT	17	18	CHANNEL 6 INS SEND
CHANNEL 6 PRE OUT	19	20	-16V
CHANNEL 7 INS RTN	21	22	CHANNEL 7 GND
CHANNEL 7 TRIM	23	24	CHANNEL 7 GND
CHANNEL 7 TRIM	25	26	CHANNEL 7 GND
CHANNEL 7 DI OUT	27	28	CHANNEL 7 INS SEND
CHANNEL 7 PRE OUT	29	30	-16V
CHANNEL 8 INS RTN	31	32	CHANNEL 8 GND
CHANNEL 8 TRIM	33	34	CHANNEL 8 GND
CHANNEL 8 TRIM	35	36	CHANNEL 8 GND
CHANNEL 8 DI OUT	37	38	CHANNEL 8 INS SEND
CHANNEL 8 PRE OUT	39	40	-16V



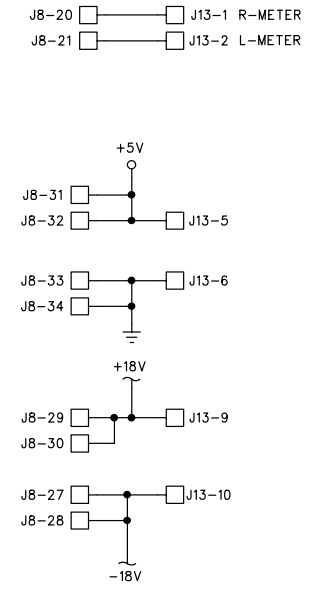
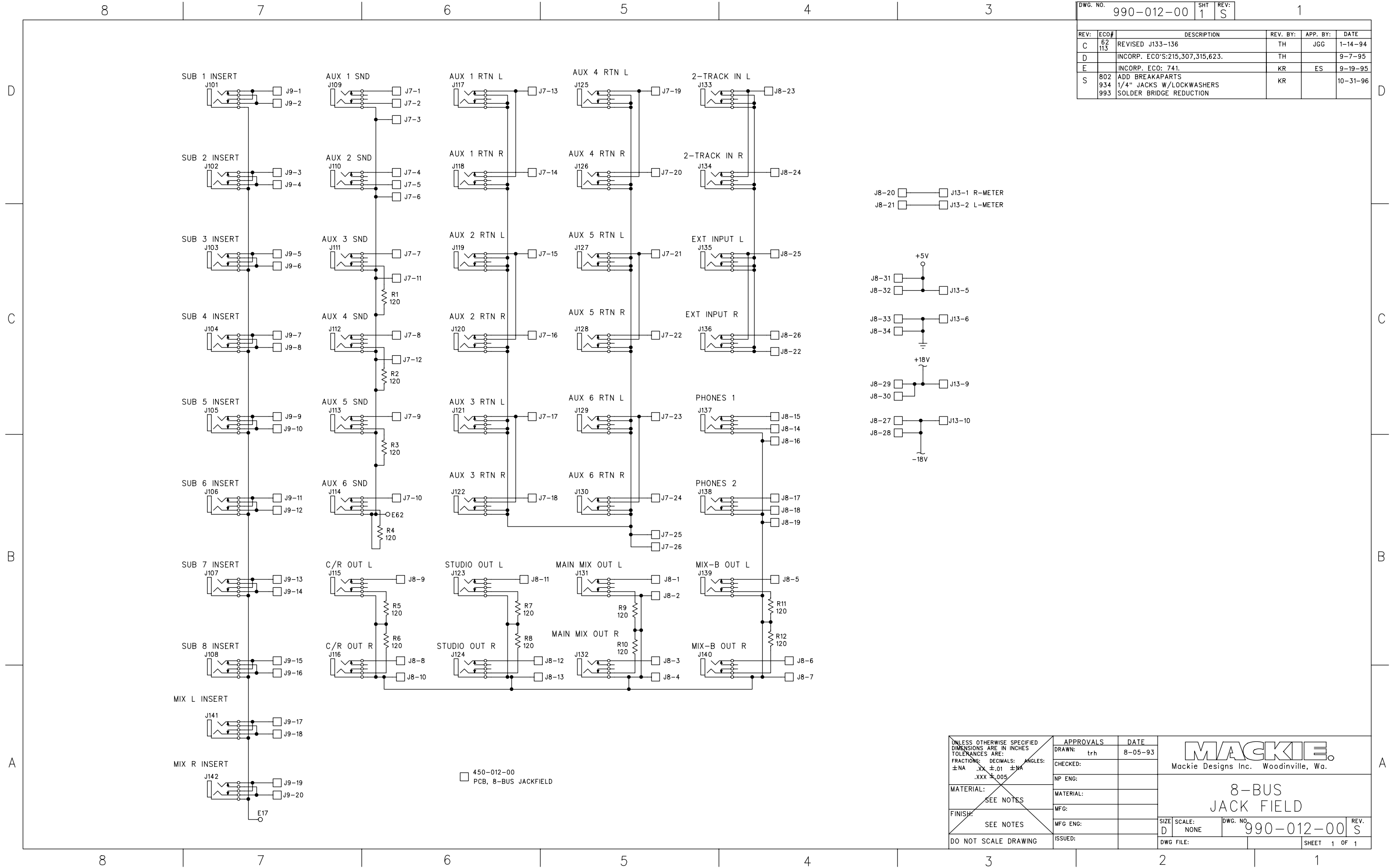
DWG. NO:	990-019-00	SHT	1	REV:	S	1
REV:	ECO#	REVISIONS	DESCRIPTION	REV. BY:	APP. BY:	DATE
C	67	CORRECTED CONNECTOR PINOUTS		TH	JC	11-12-93
D	189	CHANGED TO LOCKING CONNECTORS		TH	JGG	5-20-94
S	307	ADD "REF." TO SLOT DIMENSION		KR		10-31-96
	688	TOOLING HOLES TO .130				
	993	SOLDER BRIDGE REDUCTION				



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ± .xx ± .xxx ±	CONTRACT NO:		MACKIE. Mackie Designs Inc. Woodinville, Wa.
	APPROVALS	DATE	
MATERIAL:	DRAWN: TH	6-23-93	SCHEMATIC 8-BUS EXPANDER
FINISH:	CHECKED: CHUCK	7-7-93	
DO NOT SCALE DRAWING	ISSUED: CR	7-7-93	DWG. NO: 990-019-00 REV: S
	ENG: JG	7-7-93	
	MFG: AR	7-7-93	SCALE: SHEET 1 OF 1



DWG. NO.	990-012-00	SHT	1	REV:	S	1
REV:	ECO#	DESCRIPTION	REV. BY:	APP. BY:	DATE	
C	62 113	REVISED J133-136	TH	JGG	1-14-94	
D		INCORP. ECO'S:215,307,315,623.	TH		9-7-95	
E		INCORP. ECO: 741.	KR	ES	9-19-95	
S	802 934 993	ADD BREAKAPARTS 1/4" JACKS W/LOCKWASHERS SOLDER BRIDGE REDUCTION	KR		10-31-96	



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: .XX ±.01 ±.01 DECIMALS: .XXX ±.005 ANGLES: ±NA MATERIAL: SEE NOTES FINISH: SEE NOTES DO NOT SCALE DRAWING	APPROVALS	DATE	MACKIE Mackie Designs Inc. Woodinville, Wa.
	trh	8-05-93	
	CHECKED:		
	NP ENG:		
MATERIAL:	MATERIAL:		8-BUS JACK FIELD
MFG:	MFG ENG:		
ISSUED:			SIZE: D
			SCALE: NONE
			DWG. NO. 990-012-00
			REV. S
			SHEET 1 OF 1

J7

AUX 1 OUT +	1	2	AUX 1 OUT -
AUX 1 OUT GND	3	4	AUX 2 OUT +
AUX 2 OUT -	5	6	AUX 2 OUT GND
AUX 3 OUT	7	8	AUX 4 OUT
AUX 5 OUT	9	10	AUX 6 OUT
AUX 3-6 GND	11	12	AUX 3-6 GND
AUX 1 RTN L	13	14	AUX 1 RTN R
AUX 2 RTN L	15	16	AUX 2 RTN R
AUX 3 RTN L	17	18	AUX 3 RTN R
AUX 4 RTN L	19	20	AUX 4 RTN R
AUX 5 RTN L	21	22	AUX 5 RTN R
AUX 6 RTN L	23	24	AUX 6 RTN R
AUX RTN GND	25	26	AUX RTN GND

J9

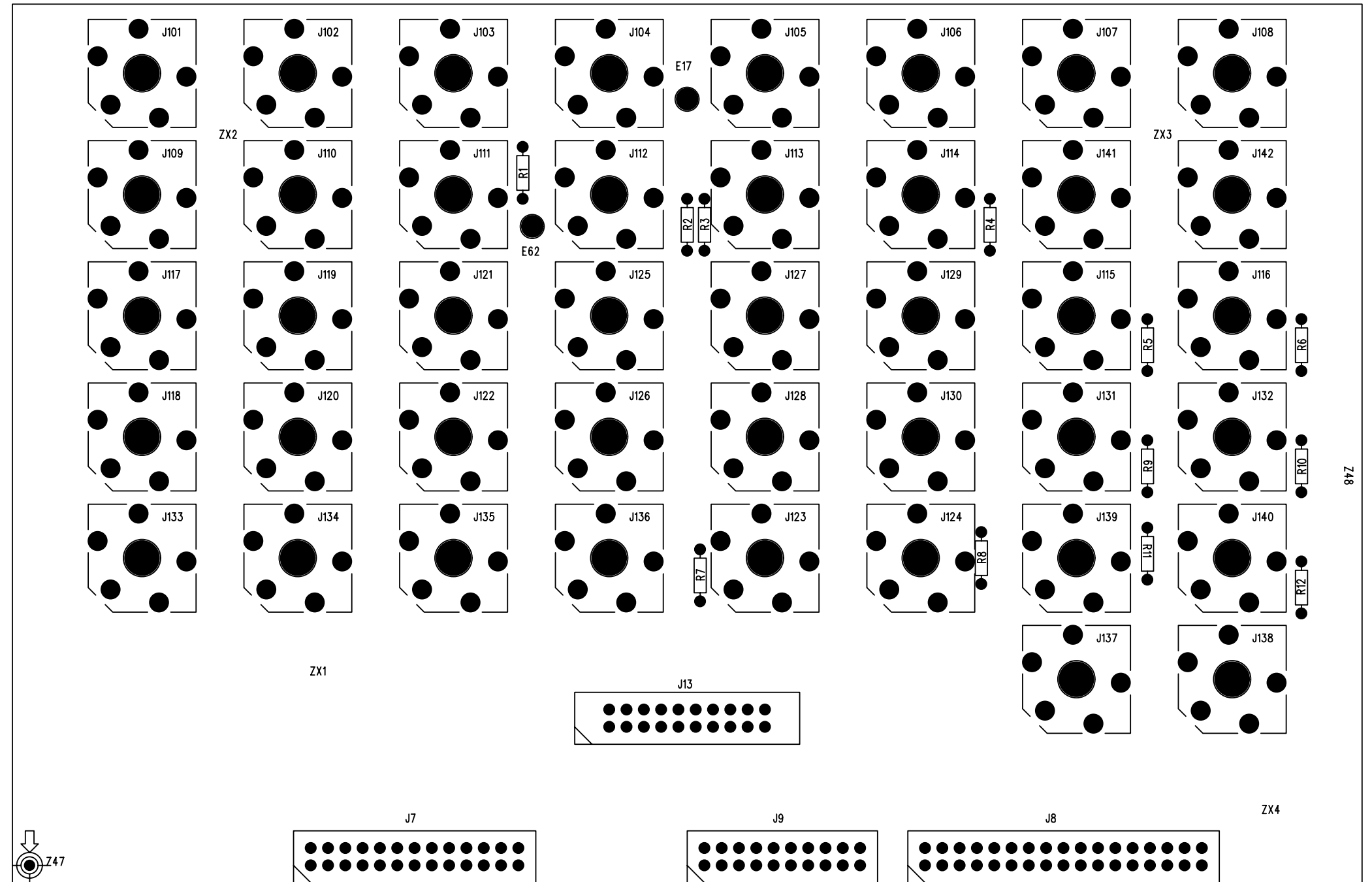
SUB 1 INS SEND	1	2	SUB 1 INS RTN
SUB 2 INS SEND	3	4	SUB 2 INS RTN
SUB 3 INS SEND	5	6	SUB 3 INS RTN
SUB 4 INS SEND	7	8	SUB 4 INS RTN
SUB 5 INS SEND	9	10	SUB 5 INS RTN
SUB 6 INS SEND	11	12	SUB 6 INS RTN
SUB 7 INS SEND	13	14	SUB 6 INS RTN
SUB 8 INS SEND	15	16	SUB 8 INS RTN
L MIX INS SEND	17	18	L MIX INS RTN
R MIX INS SEND	19	20	R MIX INS RTN

J8

L MIX UNBAL OUT	1	2	L MIX UNBAL GND
R MIX UNBAL OUT	3	4	R MIX UNBAL GND
MIX B OUT L	5	6	MIX B OUT R
MIX B GND	7	8	CONTROL ROOM R
CONTROL ROOM L	9	10	CONTROL ROOM GND
STUDIO L	11	12	STUDIO R
STUDIO GND	13	14	PHONES 1 R
PHONES 1 L	15	16	PHONES 1 GND
PHONES 2 L	17	18	PHONES 2 R
PHONES 2 GND	19	20	R METER B
L METER B	21	22	2 TRK/EXT GND
2 TRK L	23	24	2 TRK R
EXT IN L	25	26	EXT IN R
-16V	27	28	-16V
+16V	29	30	+16V
+5V	31	32	+5V
DGND	33	34	DGND

J13

R METER	1	2	L METER
N/C	3	4	N/C
+5V	5	6	N/C
N/C	7	8	N/C
+18V	9	10	-18V
N/C	11	12	N/C
N/C	13	14	N/C
N/C	15	16	N/C
N/C	17	18	N/C
N/C	19	20	N/C



817