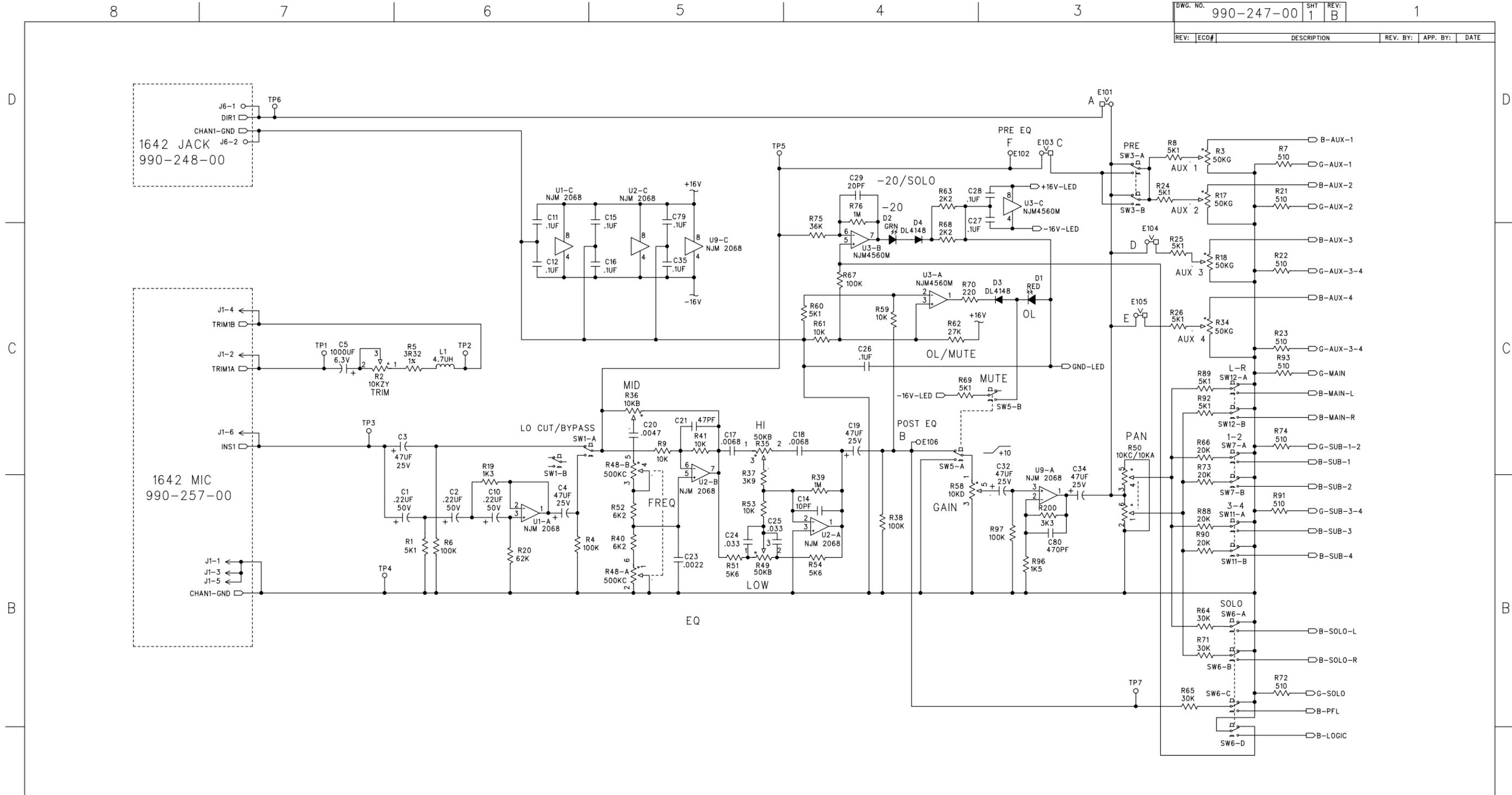
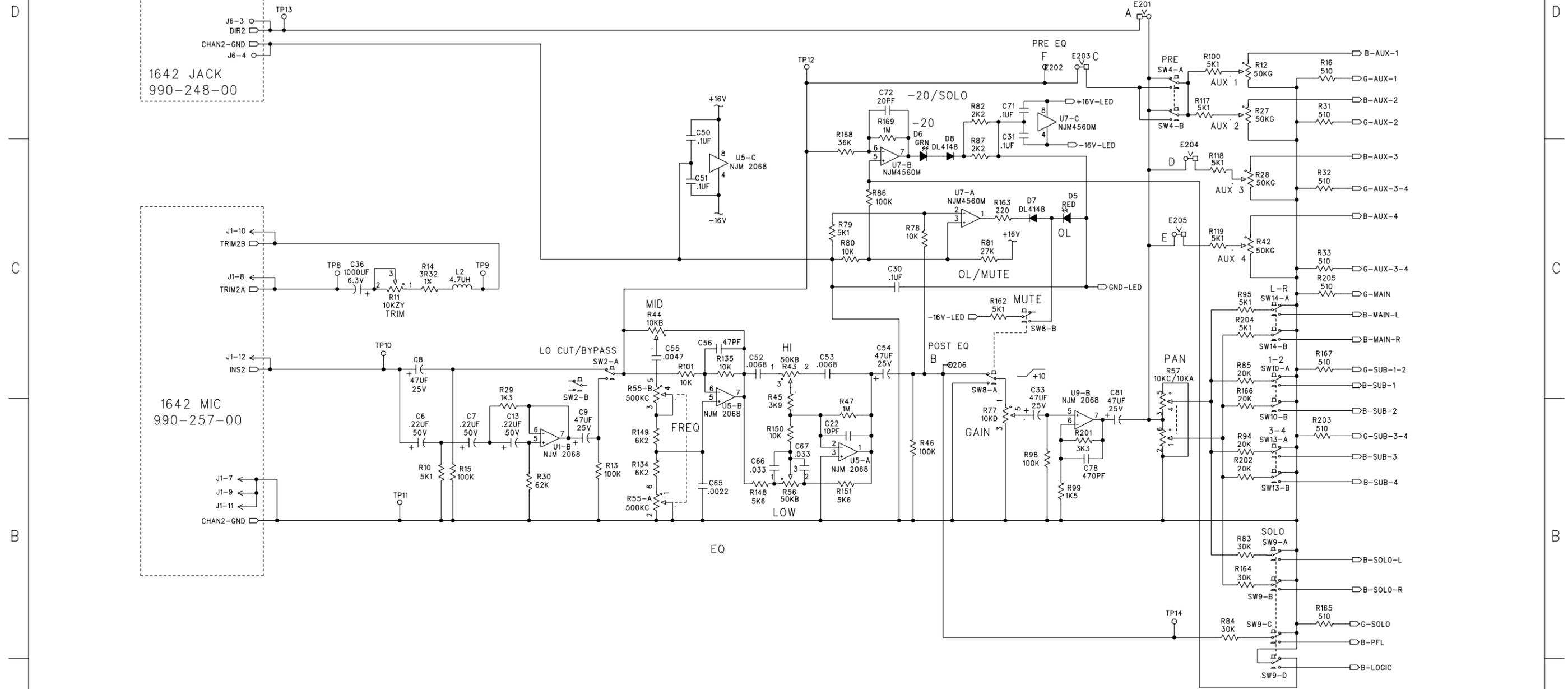


DWG. NO.	990-247-00	SHT	1	REV:	B
REV:	ECO#	DESCRIPTION	REV. BY:	APP. BY:	DATE

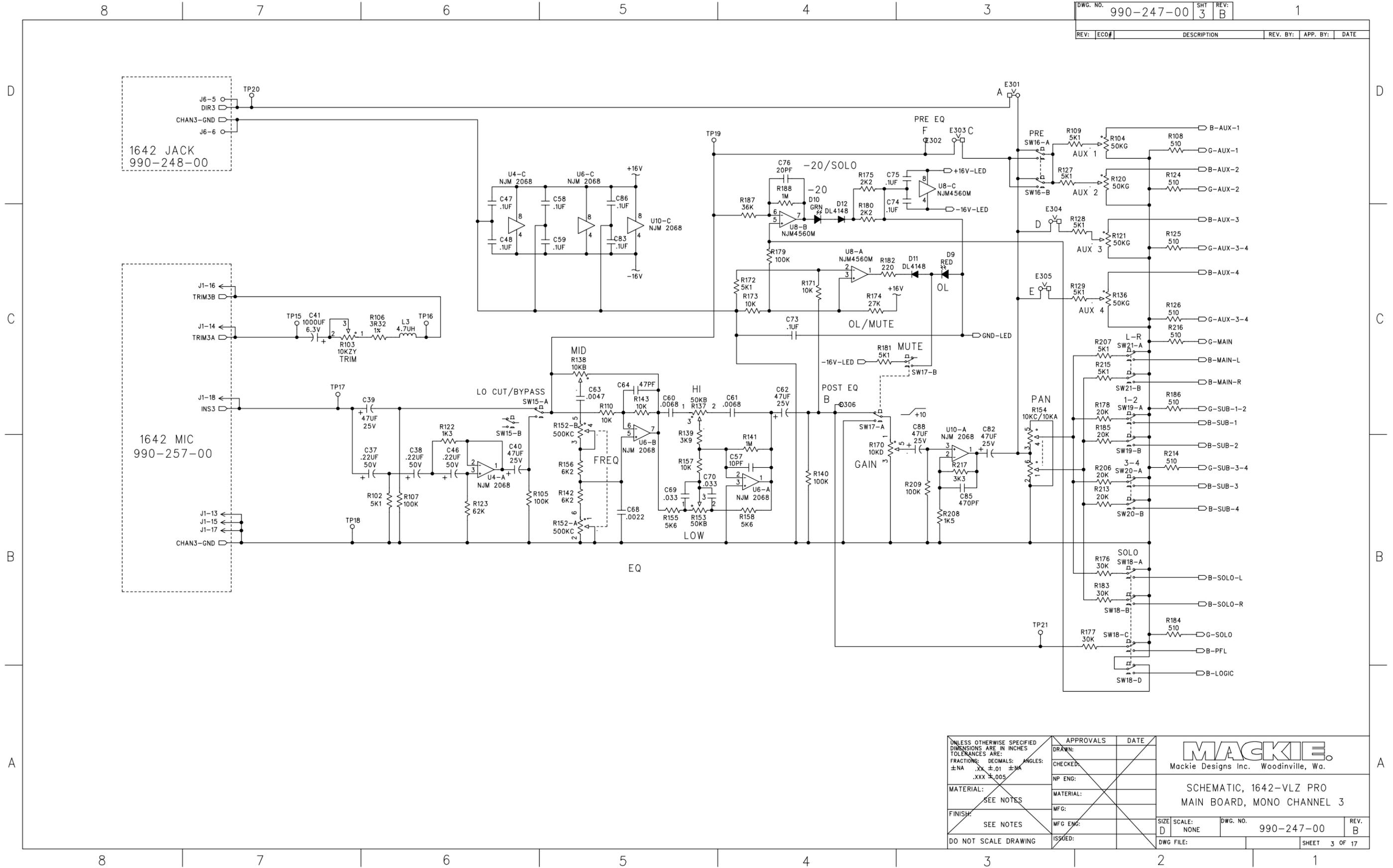


UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ±NA .XX ±.01 ±NA .XXX ±.005	APPROVALS	DATE	MACKIE Mackie Designs Inc. Woodinville, Wa.
	DRAWN: KR	10-12-98	
	CHECKED:		
	NP ENG:		
MATERIAL:	MATERIAL:		SCHEMATIC, 1642-VLZ PRO MAIN BOARD, MONO CHANNEL 1
SEE NOTES	MFG:		
SEE NOTES	MFG ENG:		
DO NOT SCALE DRAWING	ISSUED:		SIZE SCALE: DWG. NO. REV. D NONE 990-247-00 B
			DWG FILE: SHEET 1 OF 17



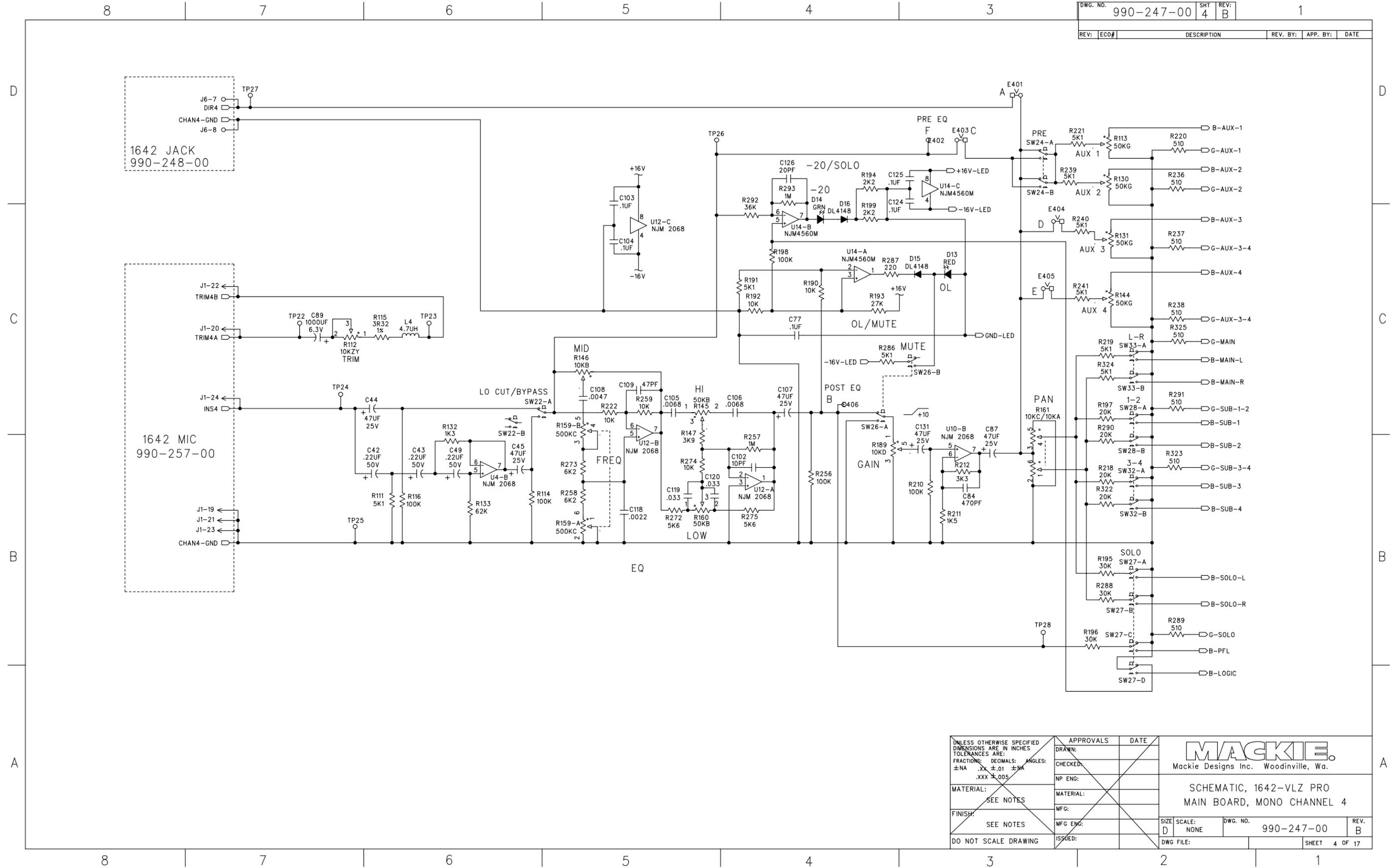
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ±NA .XX ±.01 ±MA .XXX ±.005	APPROVALS	DATE	Mackie Designs Inc. Woodinville, Wa. SCHEMATIC, 1642-VLZ PRO MAIN BOARD, MONO CHANNEL 2
	DRAWN:		
	CHECKED:		
	NP ENG:		
MATERIAL:	MATERIAL:		SIZE: D SCALE: NONE DWG. NO. 990-247-00 REV. B DWG FILE: SHEET 2 OF 17
SEE NOTES	MFG:		
FINISH:	MFG ENG:		
SEE NOTES	ISSUED:		
DO NOT SCALE DRAWING			

DWG. NO.	990-247-00	SHT	3	REV.	B	1
REV:	ECO#	DESCRIPTION	REV. BY:	APP. BY:	DATE	



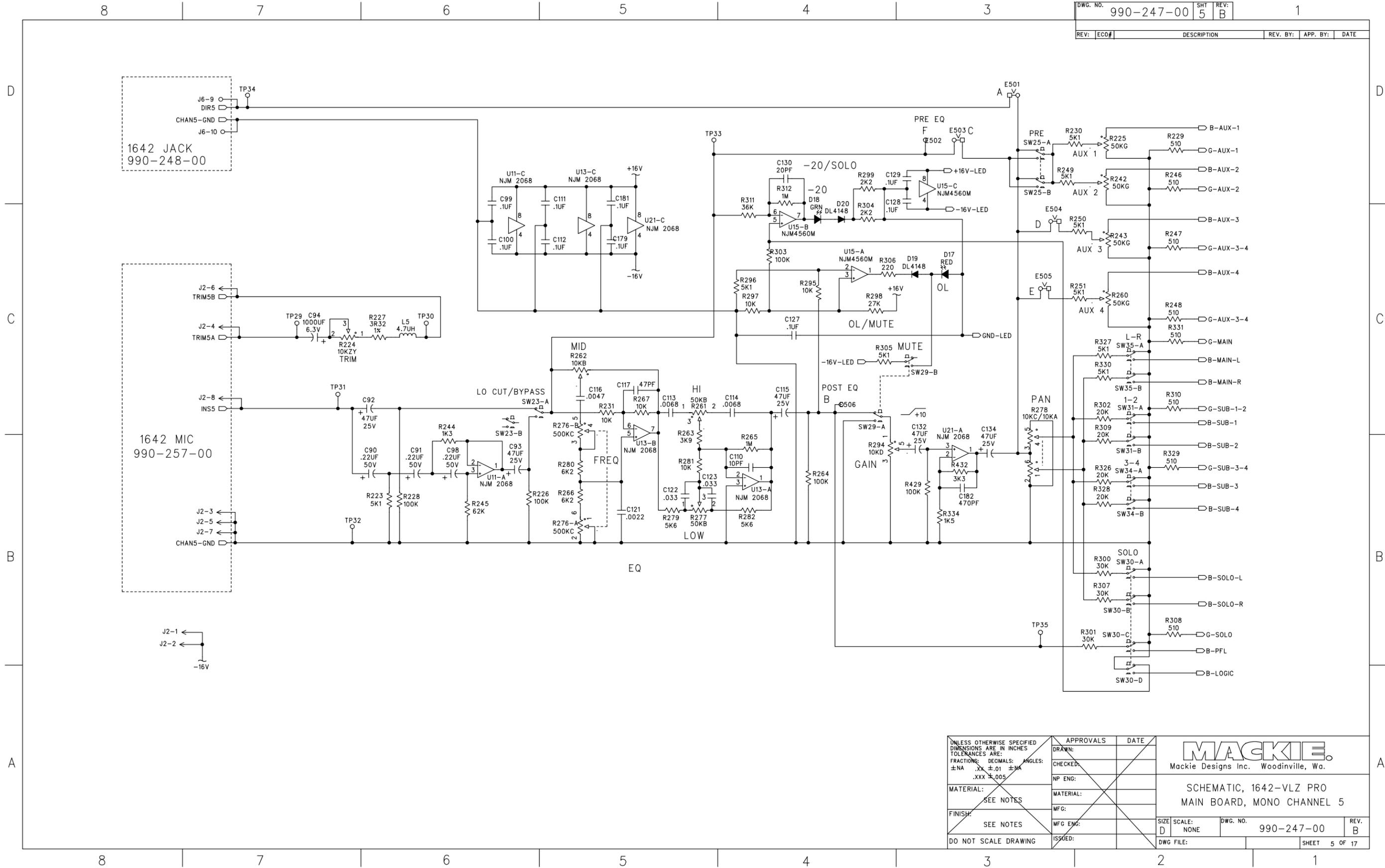
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ±.NA .XX ±.01 ±.NA .XXX ±.005	APPROVALS	DATE
MATERIAL: SEE NOTES	DRAWN:	
FINISH: SEE NOTES	CHECKED:	
DO NOT SCALE DRAWING	NP ENG:	
	MATERIAL:	
	MFG:	
	MFG ENG:	
	ISSUED:	

MACKIE Mackie Designs Inc. Woodinville, Wa.	
SCHEMATIC, 1642-VLZ PRO MAIN BOARD, MONO CHANNEL 3	
SIZE: D	SCALE: NONE
DWG. NO. 990-247-00	REV. B
DWG FILE:	SHEET 3 OF 17

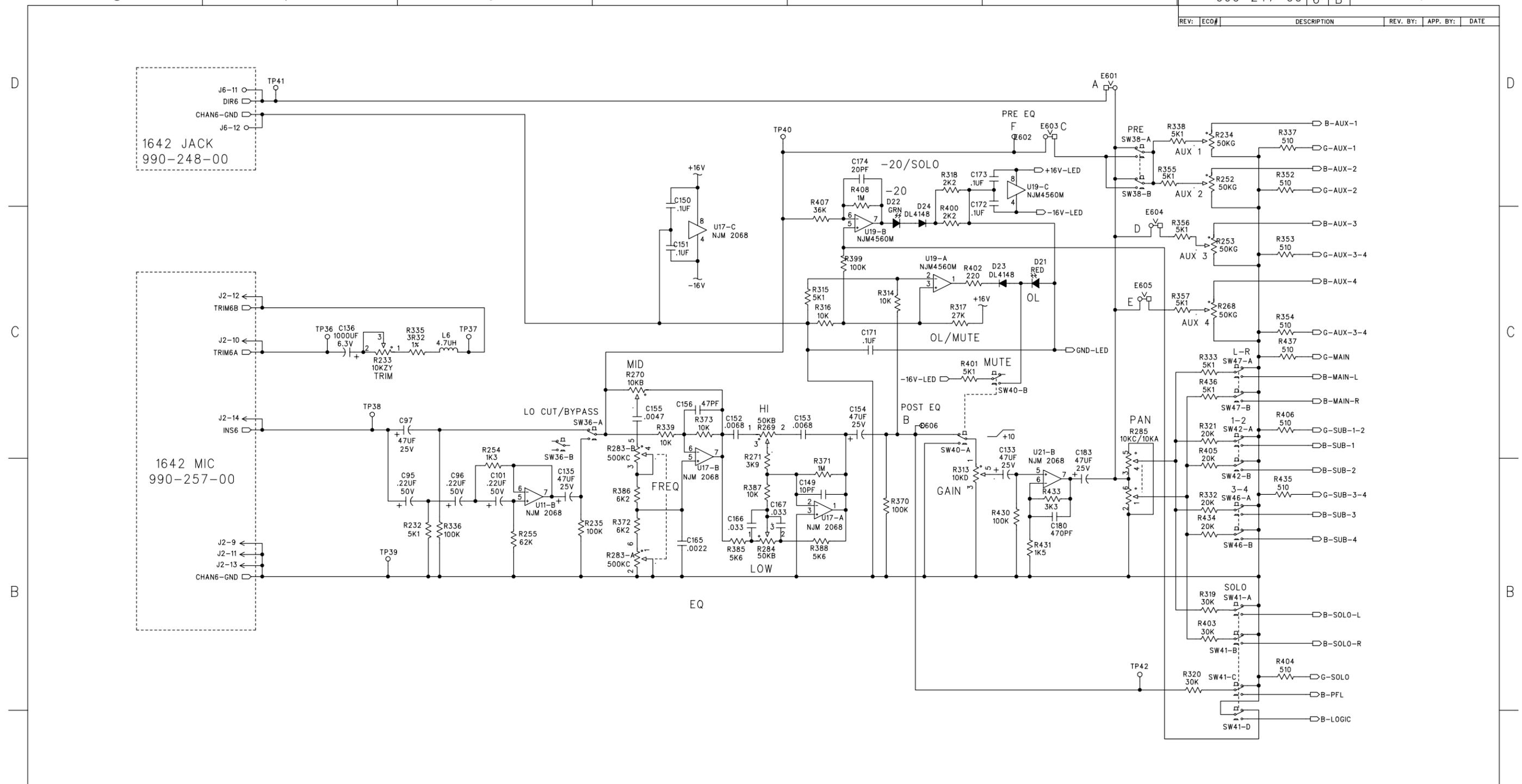


UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ±NA .XX ±.01 ±MA .XXX ±.005	APPROVALS	DATE	Mackie Designs Inc. Woodinville, Wa. SCHEMATIC, 1642-VLZ PRO MAIN BOARD, MONO CHANNEL 4
	DRAWN:		
	CHECKED:		
	NP ENG:		
MATERIAL:	MATERIAL:		SIZE: D SCALE: NONE DWG. NO. 990-247-00 REV. B DWG FILE: SHEET 4 OF 17
SEE NOTES	MFG:		
FINISH:	MFG ENG:		
DO NOT SCALE DRAWING	ISSUED:		

DWG. NO.	990-247-00	SHT	5	REV.	B	1
REV:	ECDF	DESCRIPTION	REV. BY:	APP. BY:	DATE	

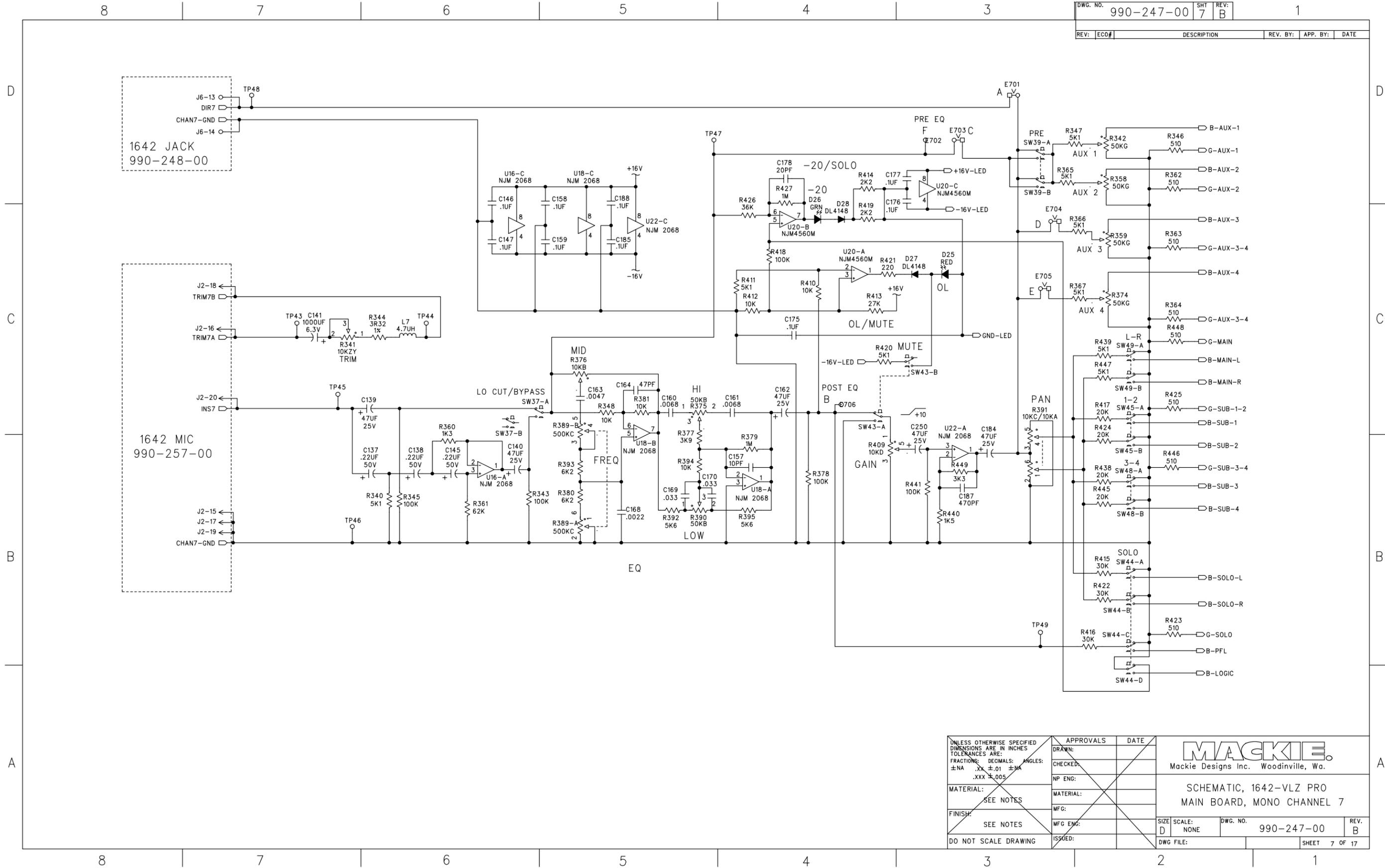


UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ±.NA .XX ±.01 ±.NA .XXX ±.005	APPROVALS	DATE	 Mackie Designs Inc. Woodinville, Wa. SCHEMATIC, 1642-VLZ PRO MAIN BOARD, MONO CHANNEL 5
	DRAWN:		
	CHECKED:		
	NP ENG:		
MATERIAL:	MATERIAL:		SIZE SCALE: DWG. NO. REV. D NONE 990-247-00 B
FINISH:	MFG:		
SEE NOTES	MFG ENG:		DWG FILE: SHEET 5 OF 17
SEE NOTES	ISSUED:		
DO NOT SCALE DRAWING			



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ±NA .XX ±.01 ±MA .XXX ±.005	APPROVALS	DATE		
	DRAWN:			
	CHECKED:			
	NP ENG:			
MATERIAL:	MATERIAL:		SCHEMATIC, 1642-VLZ PRO MAIN BOARD, MONO CHANNEL 6	
SEE NOTES	MFG:			
SEE NOTES	MFG ENG:			
DO NOT SCALE DRAWING	ISSUED:			
	SIZE	SCALE	DWG. NO.	REV.
	D	NONE	990-247-00	B
	DWG FILE:		SHEET	6 OF 17

DWG. NO.	990-247-00	SHT	7	REV.	B
REV.	ECO#	DESCRIPTION	REV. BY:	APP. BY:	DATE

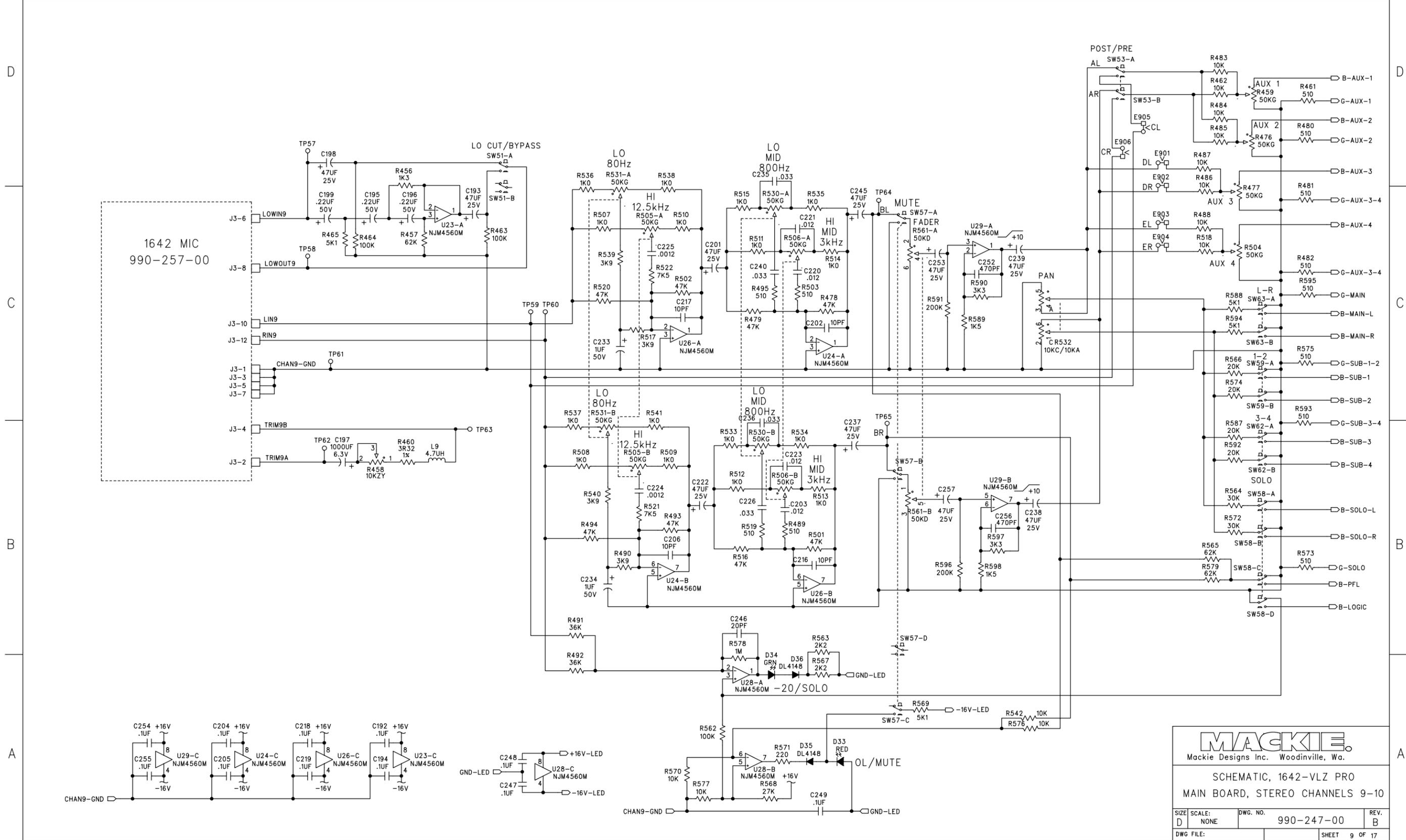


UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ±.NA .XX ±.01 ±.NA .XXX ±.005	APPROVALS	DATE
	DRAWN:	
	CHECKED:	
	NP ENG:	
MATERIAL:	MATERIAL:	
FINISH:	MFG:	
SEE NOTES	MFG ENG:	
DO NOT SCALE DRAWING	ISSUED:	

MACKIE
Mackie Designs Inc. Woodinville, Wa.

SCHEMATIC, 1642-VLZ PRO
MAIN BOARD, MONO CHANNEL 7

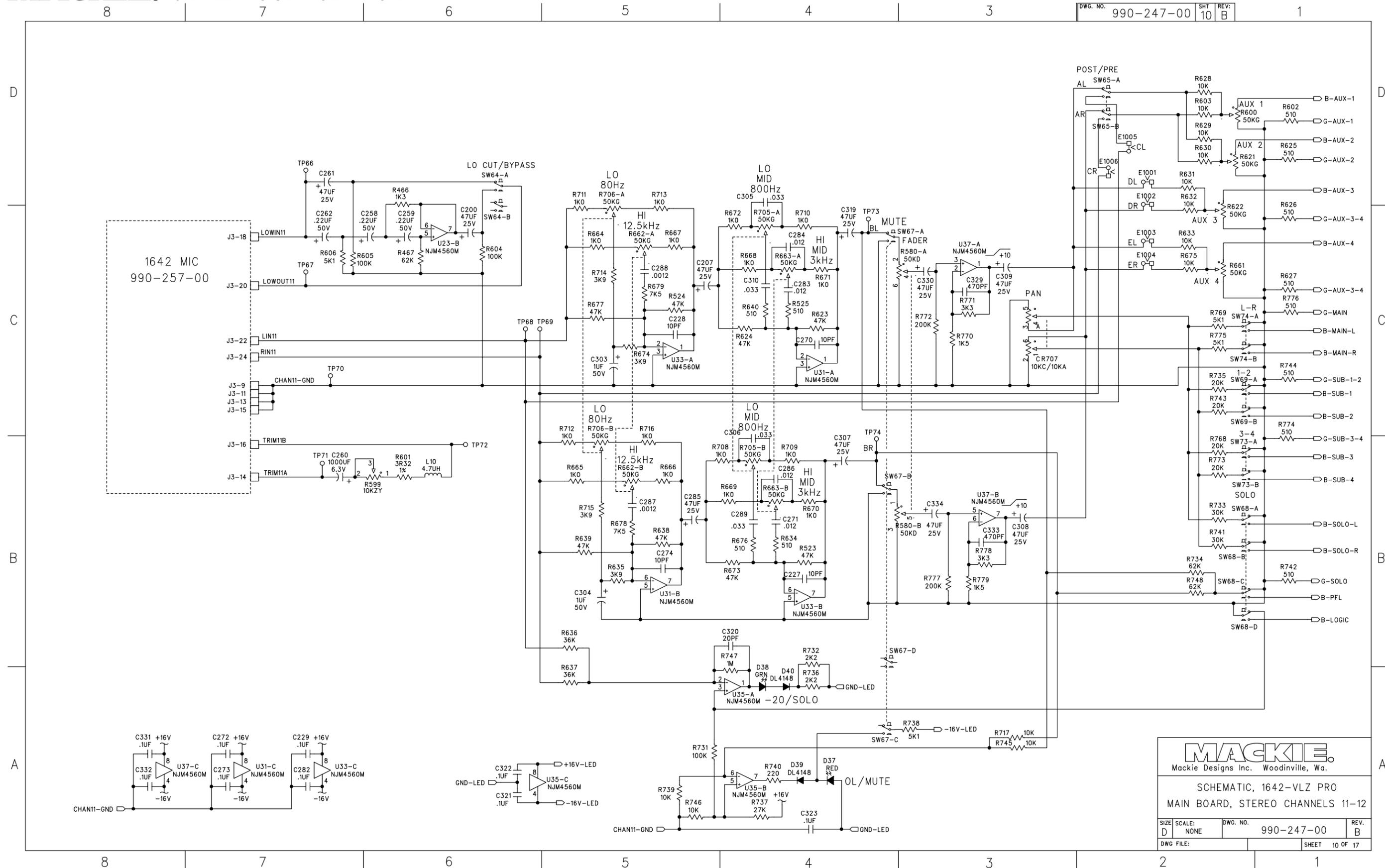
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D	NONE	990-247-00	B
DWG FILE:			SHEET 7 OF 17



MACKIE
Mackie Designs Inc. Woodinville, Wa.

SCHMATIC, 1642-VLZ PRO
MAIN BOARD, STEREO CHANNELS 9-10

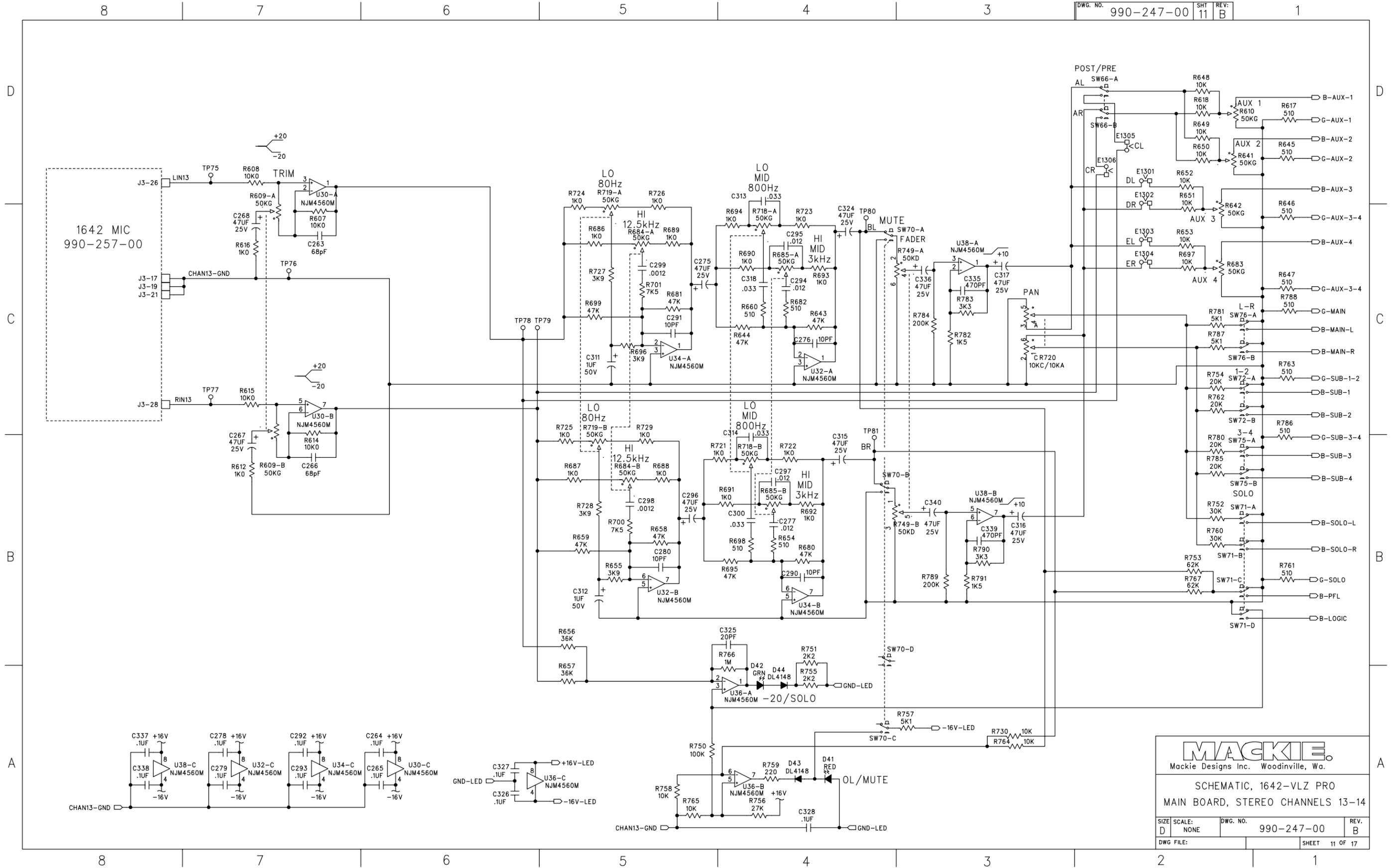
SIZE	SCALE:	DWG. NO.	REV.
D	NONE	990-247-00	B
DWG FILE:	SHEET		9 OF 17



MACKIE
Mackie Designs Inc. Woodinville, Wa.

SCHMATIC, 1642-VLZ PRO
MAIN BOARD, STEREO CHANNELS 11-12

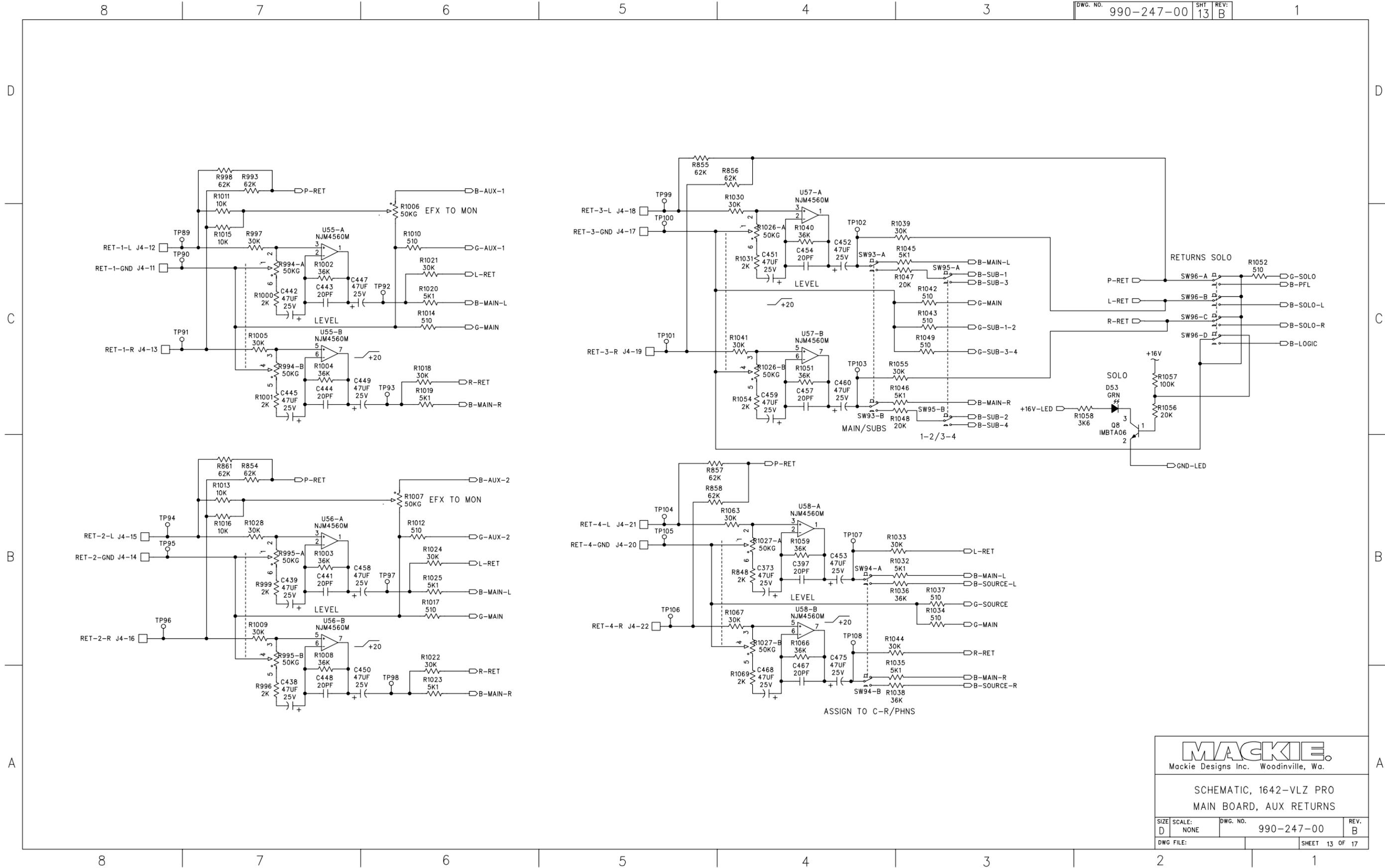
SIZE: D	SCALE: NONE	DWG. NO. 990-247-00	REV. B
DWG FILE:		SHEET 10 OF 17	



MACKIE
Mackie Designs Inc. Woodinville, Wa.

SCHMATIC, 1642-VLZ PRO
MAIN BOARD, STEREO CHANNELS 13-14

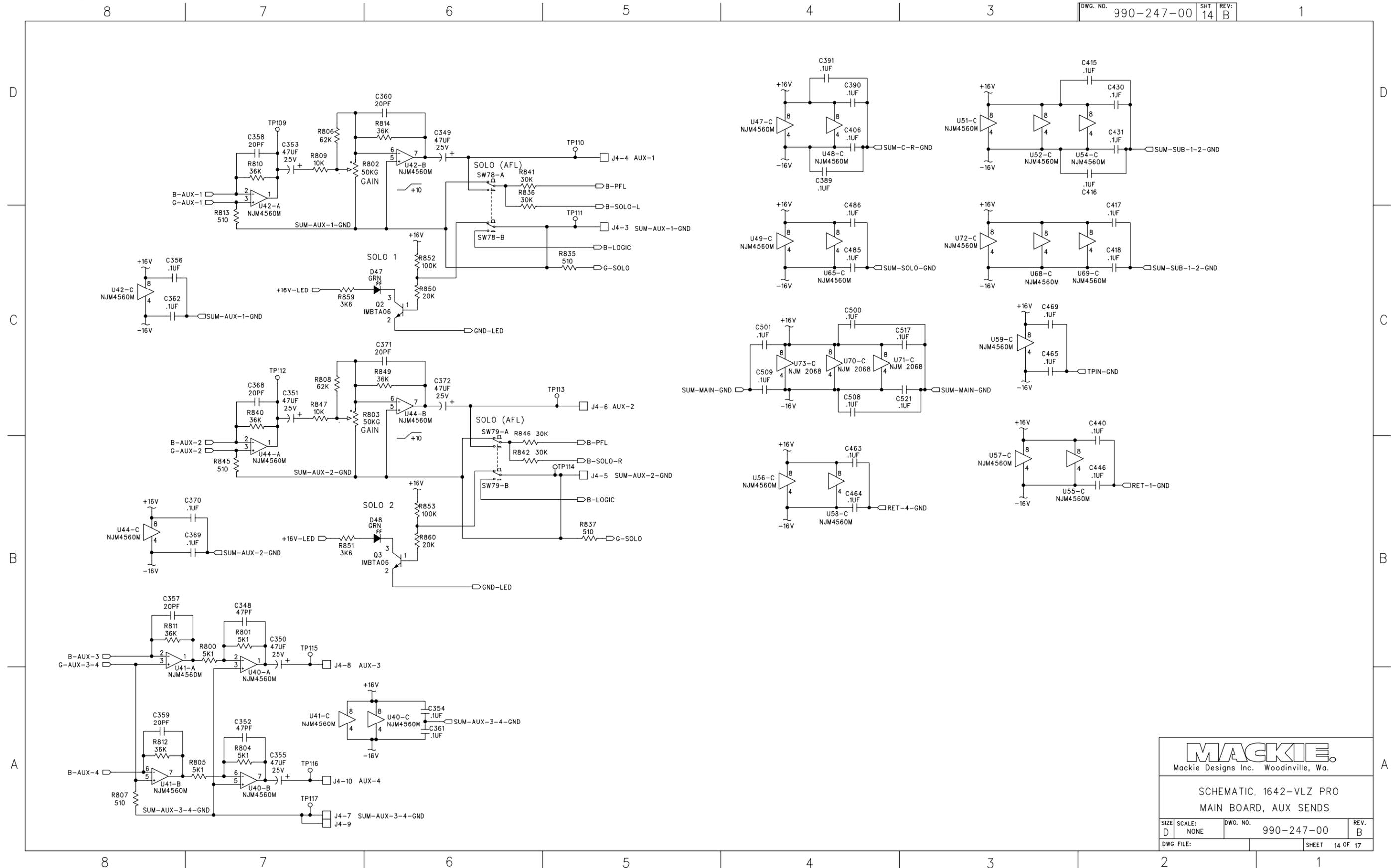
SIZE: D	SCALE: NONE	DWG. NO. 990-247-00	REV. B
DWG. FILE:		SHEET 11 OF 17	



MACKIE
Mackie Designs Inc. Woodinville, Wa.

SCHEMATIC, 1642-VLZ PRO
MAIN BOARD, AUX RETURNS

SIZE: D	SCALE: NONE	DWG. NO.: 990-247-00	REV: B
DWG FILE:		SHEET 13 OF 17	

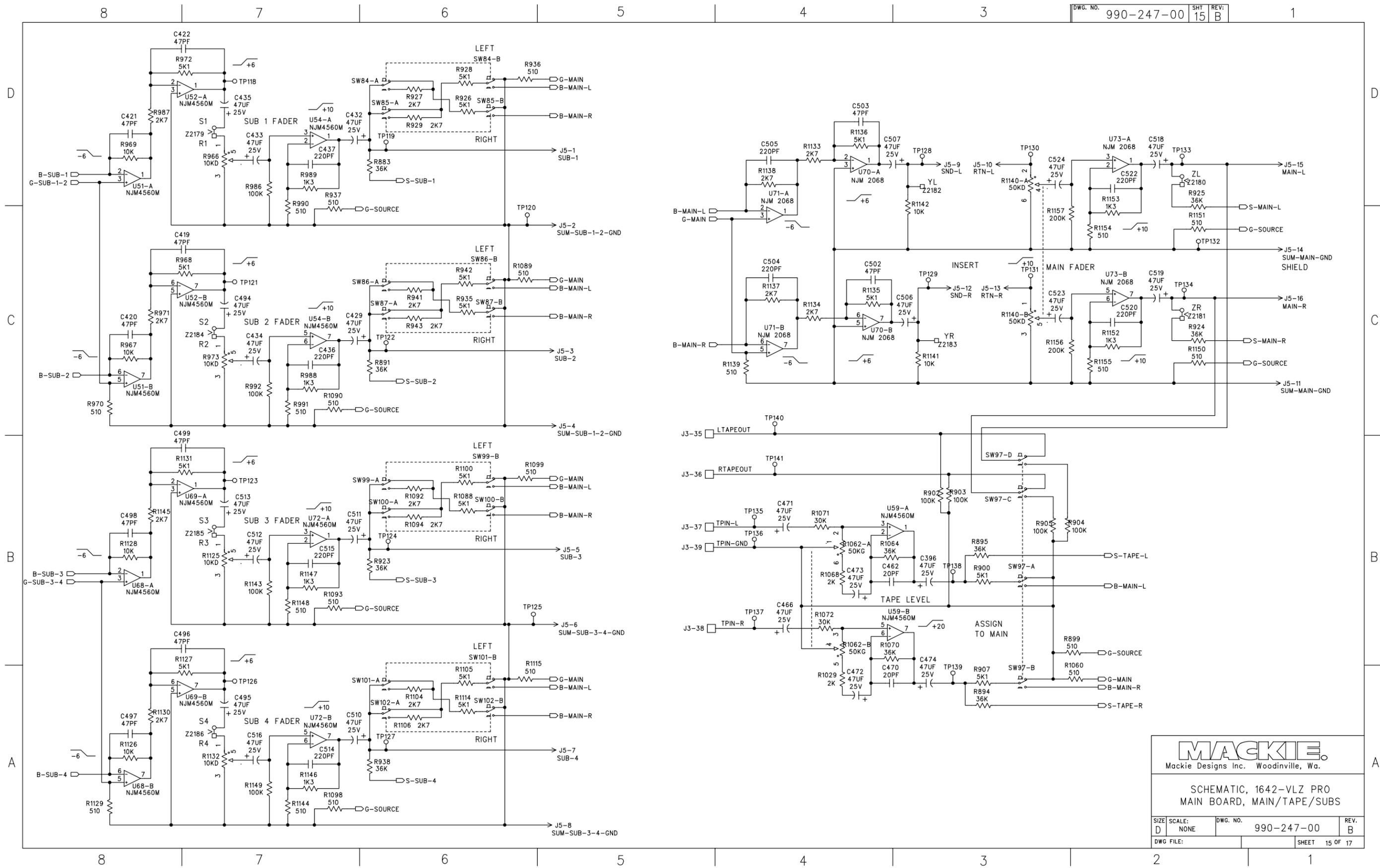


MACKIE.
Mackie Designs Inc. Woodinville, Wa.

SCHMATIC, 1642-VLZ PRO
MAIN BOARD, AUX SENDS

SIZE D	SCALE NONE	DWG. NO. 990-247-00	REV. B
DWG FILE:		SHEET 14 OF 17	

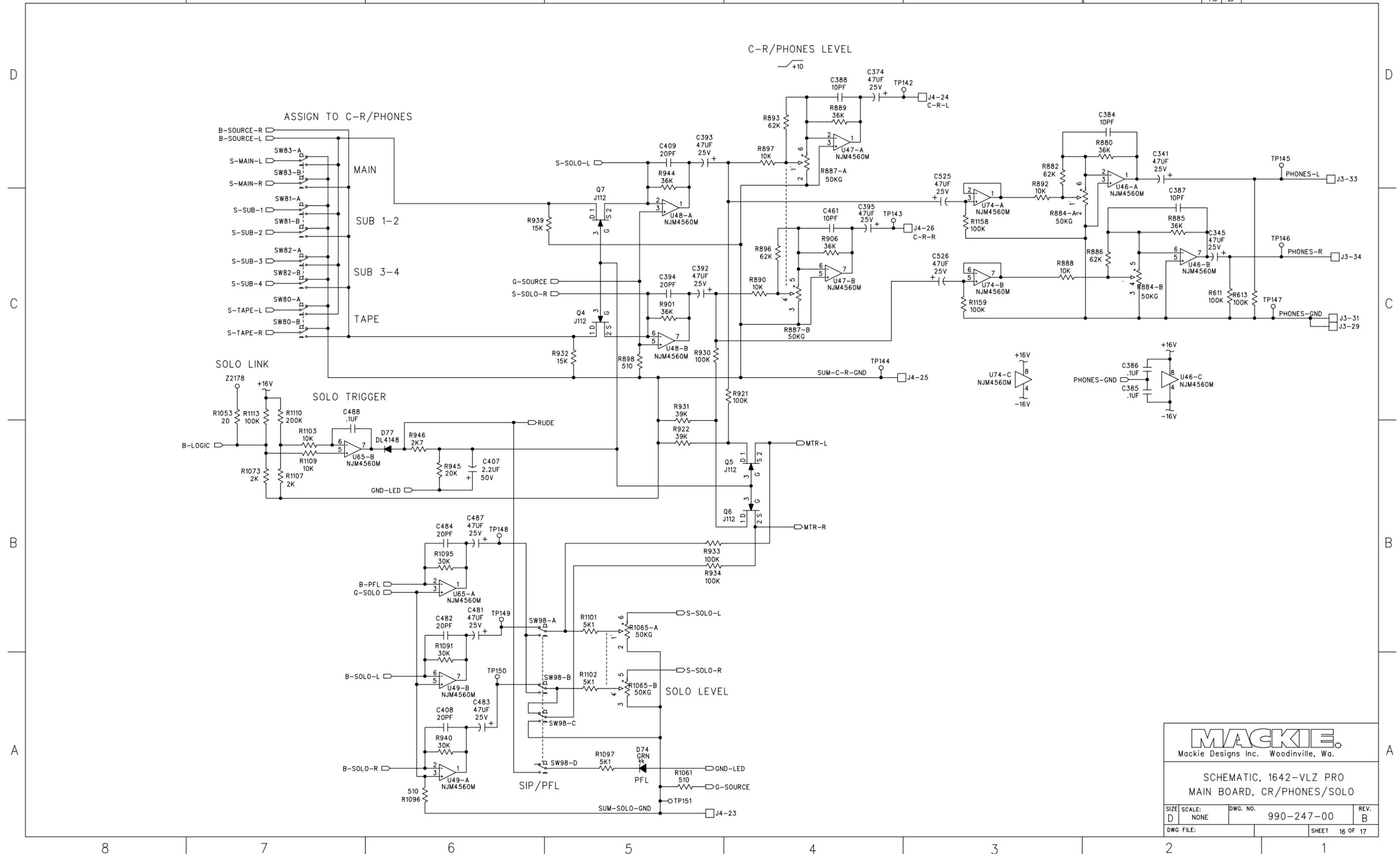
247-14 MAIN BOARD 247 REV B



MACKIE
Mackie Designs Inc. Woodinville, Wa.

SCHMATIC, 1642-VLZ PRO
MAIN BOARD, MAIN/TAPE/SUBS

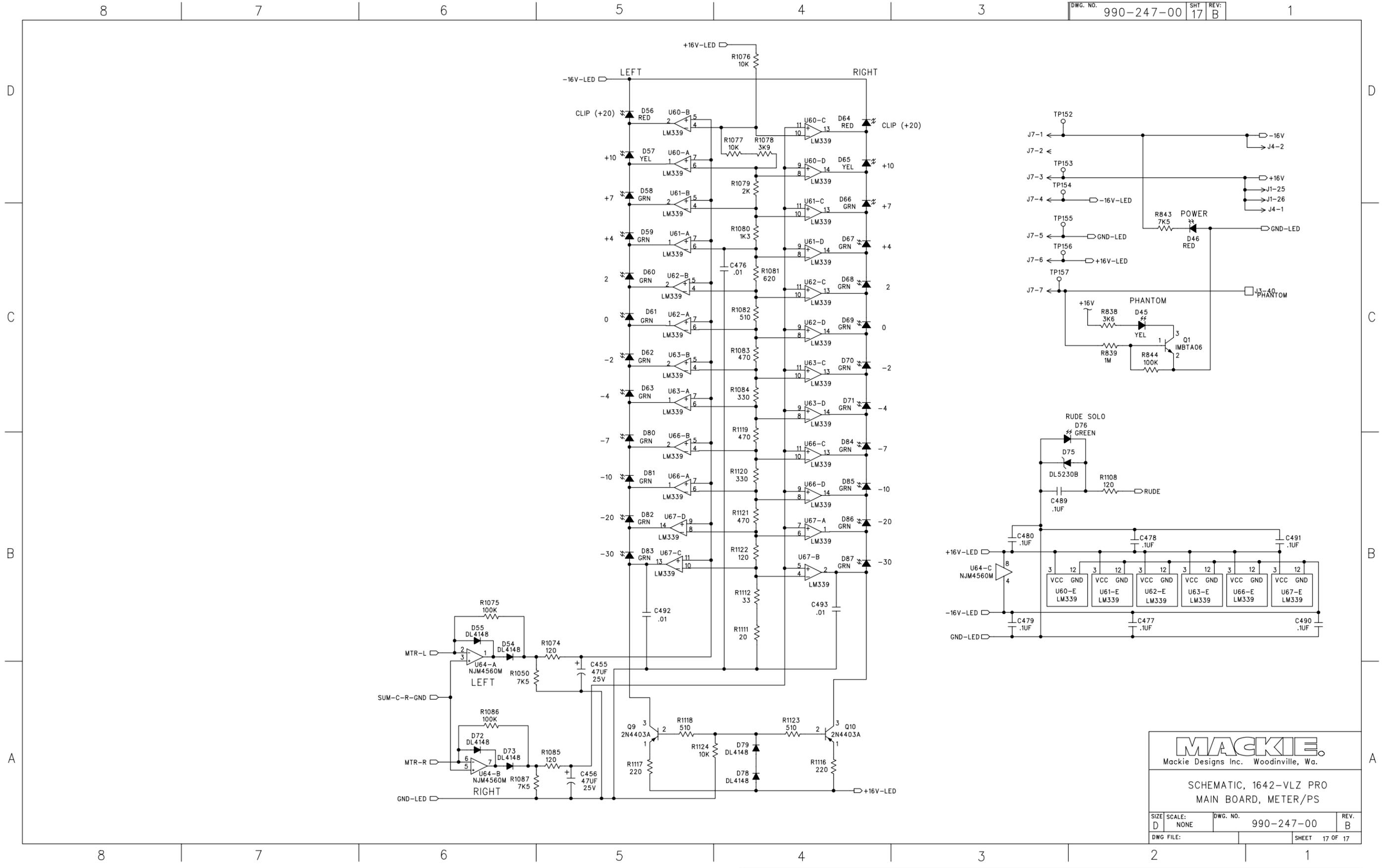
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DWG FILE:		SHEET 15 OF 17	



MACKIE.
Mackie Designs Inc. Woodinville, Wa.

SCHEMATIC, 1642-VLZ PRO
MAIN BOARD, CR/PHONES/SOLO

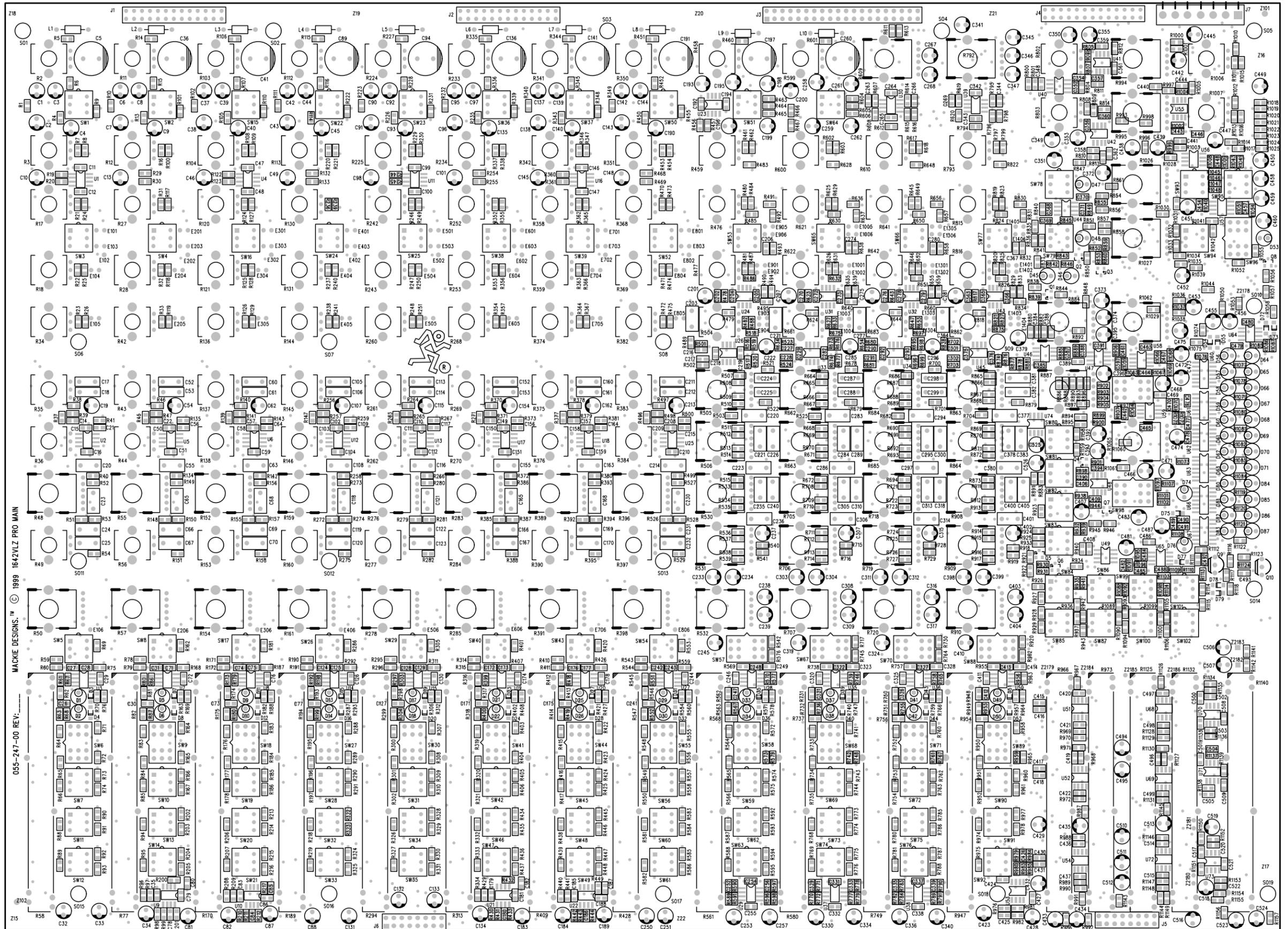
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DWG FILE:		SHEET 16 OF 17	



MACKIE
Mackie Designs Inc. Woodinville, Wa.

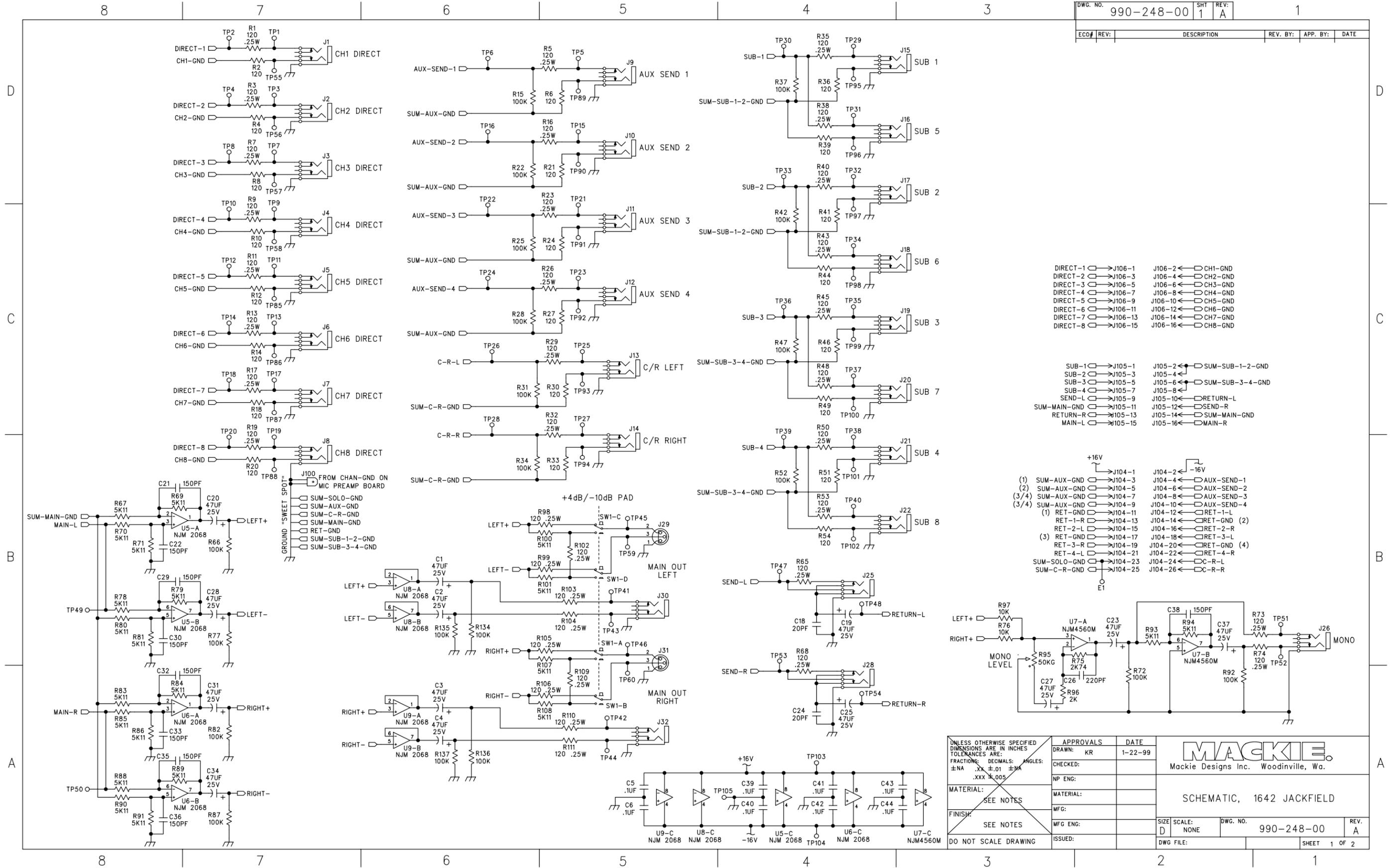
SCHMATIC, 1642-VLZ PRO
MAIN BOARD, METER/PS

SIZE: D	SCALE: NONE	DWG. NO. 990-247-00	REV. B
DWG FILE:		SHEET 17 OF 17	



055-247-00 REV. 1
MACKIE DESIGNS, INC. © 1999 1642VLZ PRO MAIN

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



- DIRECT-1 → J106-1
- DIRECT-2 → J106-3
- DIRECT-3 → J106-5
- DIRECT-4 → J106-7
- DIRECT-5 → J106-9
- DIRECT-6 → J106-11
- DIRECT-7 → J106-13
- DIRECT-8 → J106-15
- J106-2 ← CH1-GND
- J106-4 ← CH2-GND
- J106-6 ← CH3-GND
- J106-8 ← CH4-GND
- J106-10 ← CH5-GND
- J106-12 ← CH6-GND
- J106-14 ← CH7-GND
- J106-16 ← CH8-GND

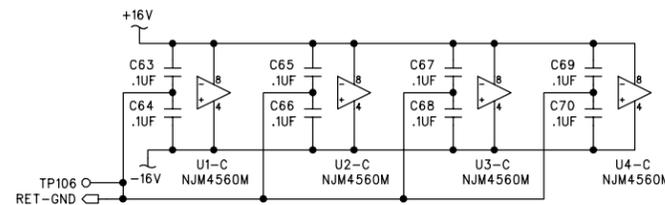
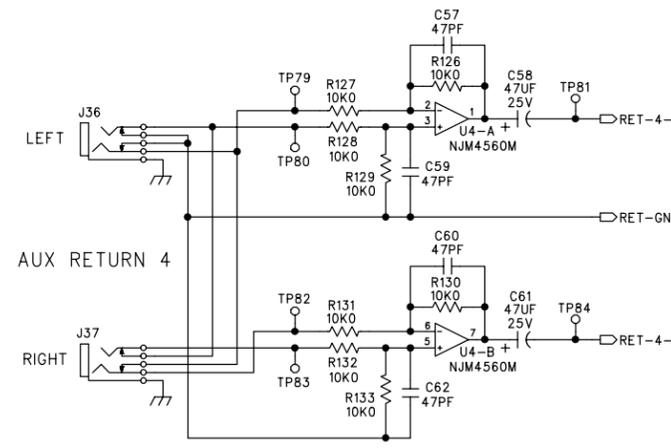
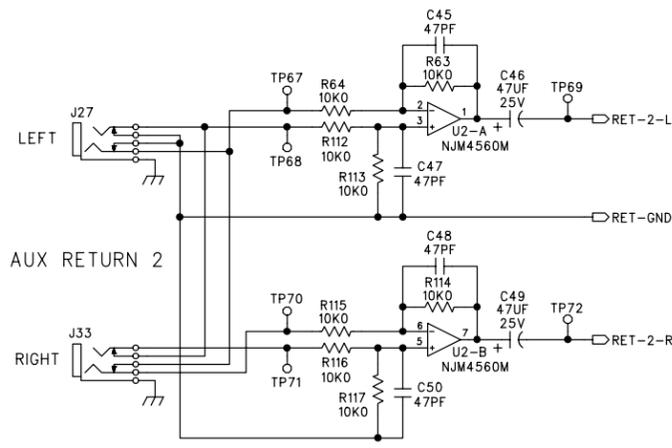
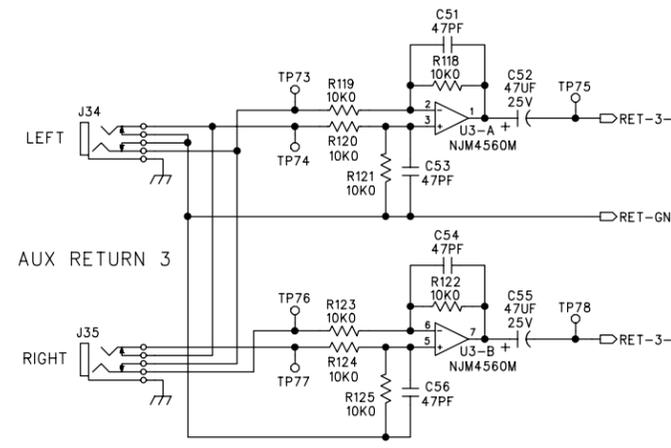
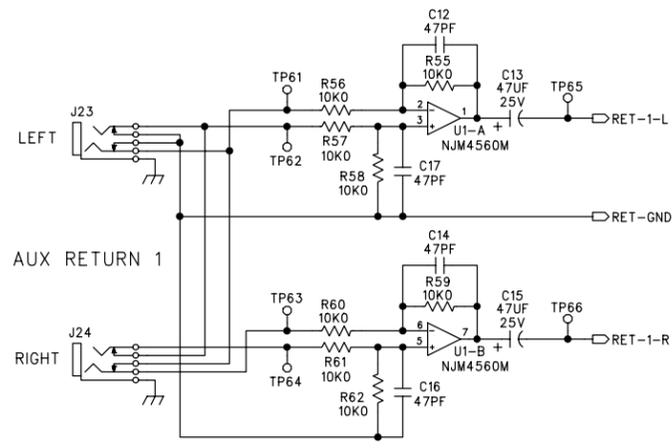
- SUB-1 → J105-1
- SUB-2 → J105-3
- SUB-3 → J105-5
- SUB-4 → J105-7
- SEND-L → J105-9
- SUM-MAIN-GND → J105-11
- RETURN-R → J105-13
- MAIN-L → J105-15
- J105-2 ← SUM-SUB-1-2-GND
- J105-4 ← SUM-SUB-3-4-GND
- J105-6 ← RETURN-L
- J105-8 ← SEND-R
- J105-10 ← SUM-MAIN-GND
- J105-12 ← C-R-L
- J105-14 ← C-R-R
- J105-16 ← MAIN-R

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:	APPROVALS		DATE
	FRACTIONS: ±.010 DECIMALS: ±.005 ANGLES: .xxx	DRAWN: KR	CHECKED:
MATERIAL: SEE NOTES	NP ENG:	MATERIAL:	
FINISH: SEE NOTES	MFG:	MFG ENG:	
DO NOT SCALE DRAWING	ISSUED:		

MACKIE
Mackie Designs Inc. Woodinville, Wa.

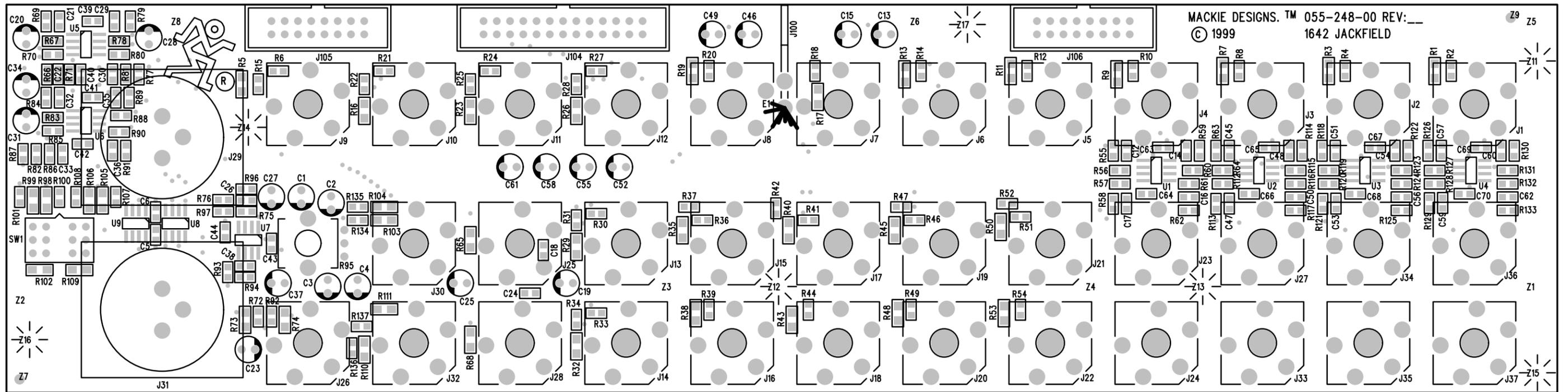
SCHEMATIC, 1642 JACKFIELD

SIZE: D	SCALE: NONE	DWG. NO. 990-248-00	REV. A
DWG FILE:		SHEET 1 OF 2	

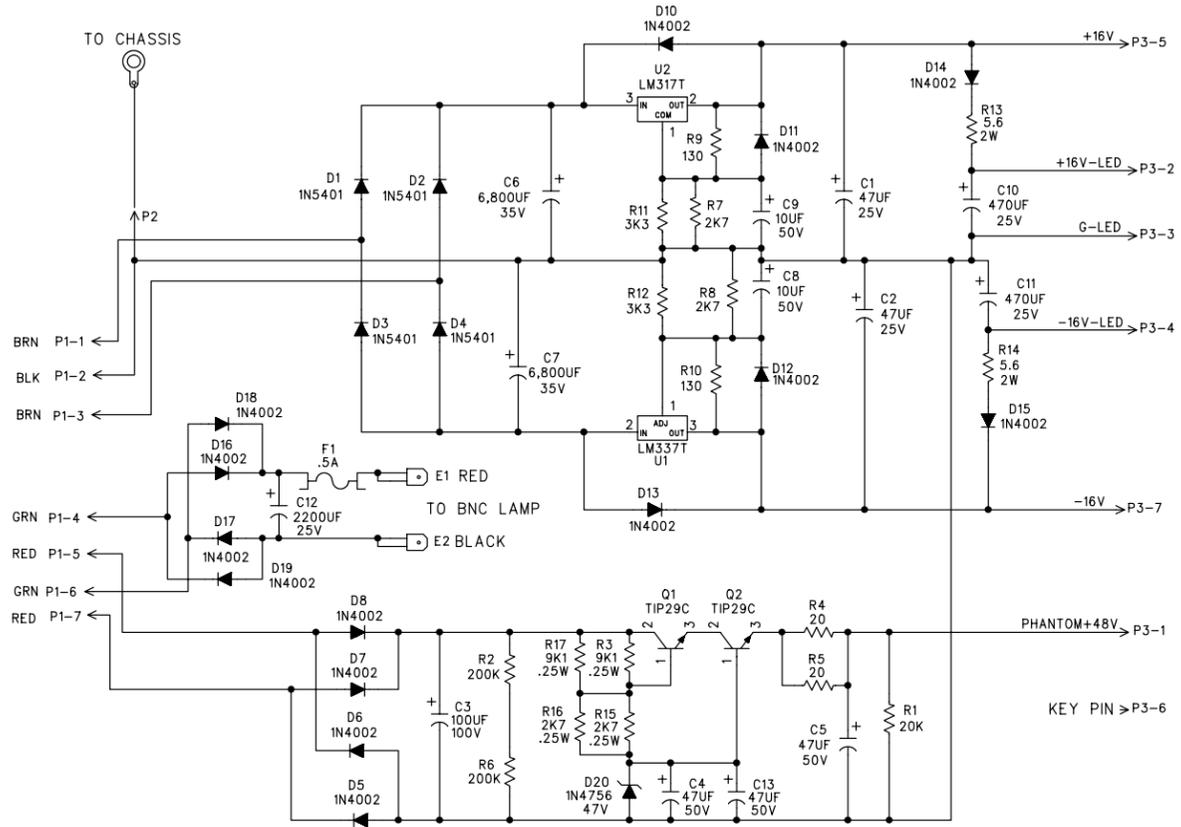
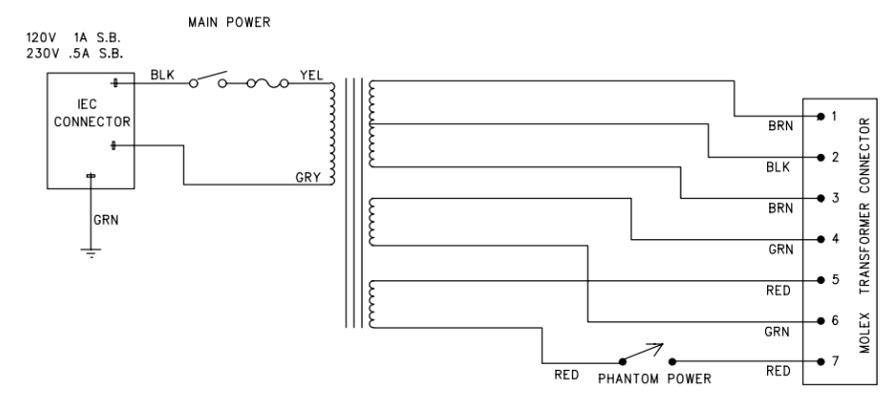


- 450-248-00 PCB, 1642 JACKFIELD
- 760-150-00 EXTENDER, BUTTON SQ CORE, .450

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ±NA .XX ±.01 ±MA .XXX ±.005	APPROVALS	DATE	
	CHECKED:		
	NP ENG:		
	MATERIAL:		
SEE NOTES	MATERIAL:		SCHEMATIC, 1642 JACKFIELD
SEE NOTES	MFG:		
DO NOT SCALE DRAWING	SEE NOTES	MFG ENG:	
	ISSUED:		
			SIZE: D SCALE: NONE DWG. NO. 990-248-00 REV. A
			DWG FILE: SHEET 2 OF 2

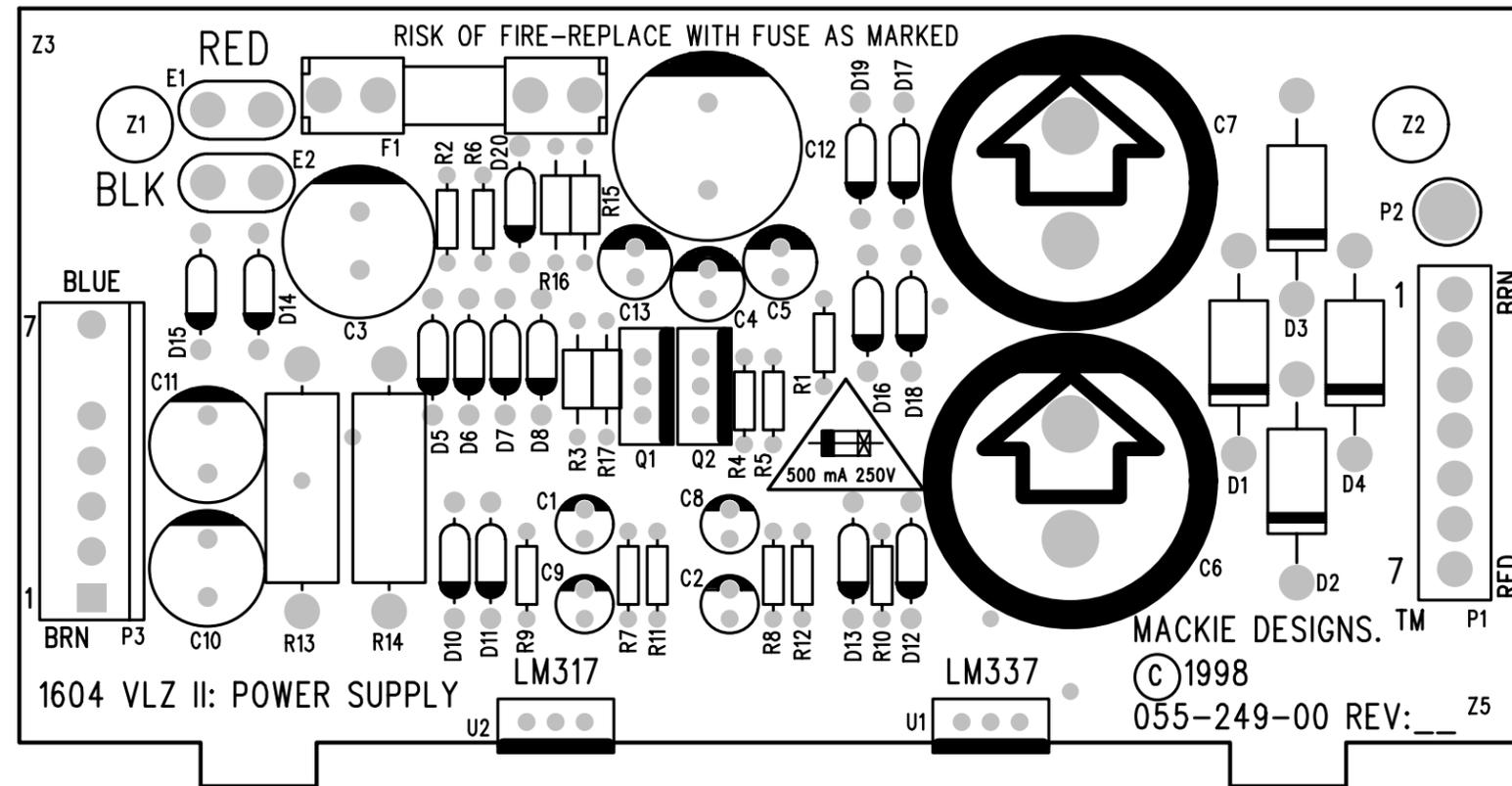


DWG. NO:	990-249-00	SHT	1	REV:	A	1
REV:	ECO#	DESCRIPTION	REV. BY:	APP. BY:	DATE	

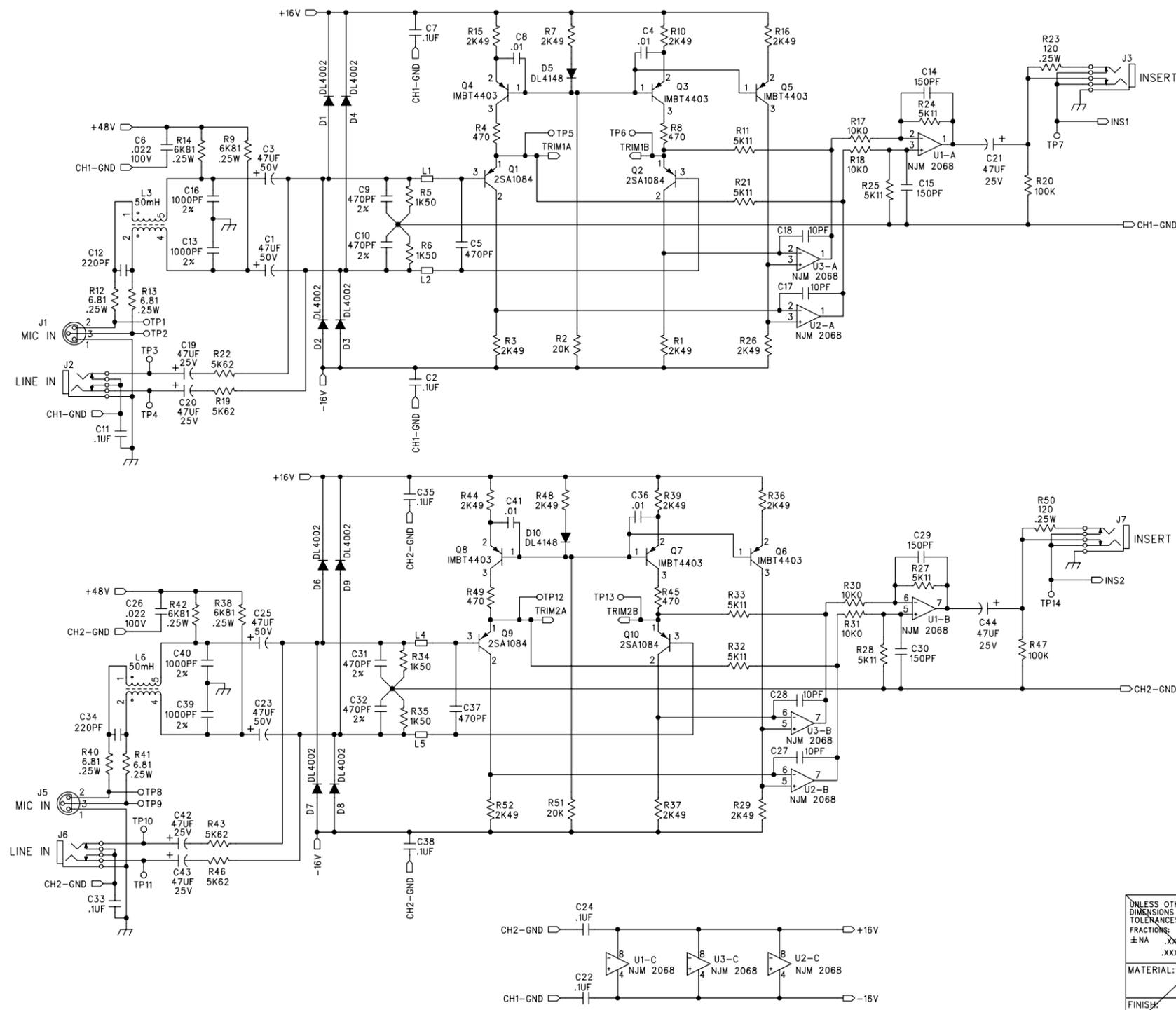


- 400-060-00 FUSE CLIP PCMT
- 400-060-00 FUSE CLIP PCMT
- 450-249-00 PCB, 1604 VLZ II POWER SUPPLY
- 706-008-00 STANDOFF, SWAGE 4-40 X .34
- 706-008-00 STANDOFF, SWAGE 4-40 X .34

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ±.NA .XX ±.01 ±.NA .XXX ±.005	APPROVALS	DATE	MACKIE Mackie Designs Inc. Woodinville, Wa.
	DRAWN: KR	11-30-98	
	CHECKED:		
	NP ENG:		
MATERIAL:	MATERIAL:	SCHEMATIC, CR1604 VLZ II POWER SUPPLY	
FINISH:	MFG:	SIZE	SCALE: NONE
DO NOT SCALE DRAWING	MFG ENG:	DWG. NO.	990-249-00
	ISSUED:	REV.	A
		DWG FILE:	SHEET 1 OF 1



DWG. NO.	990-257-00	SHT	1	REV	A
REV.	ECO#	DESCRIPTION	REV. BY:	APP. BY:	DATE

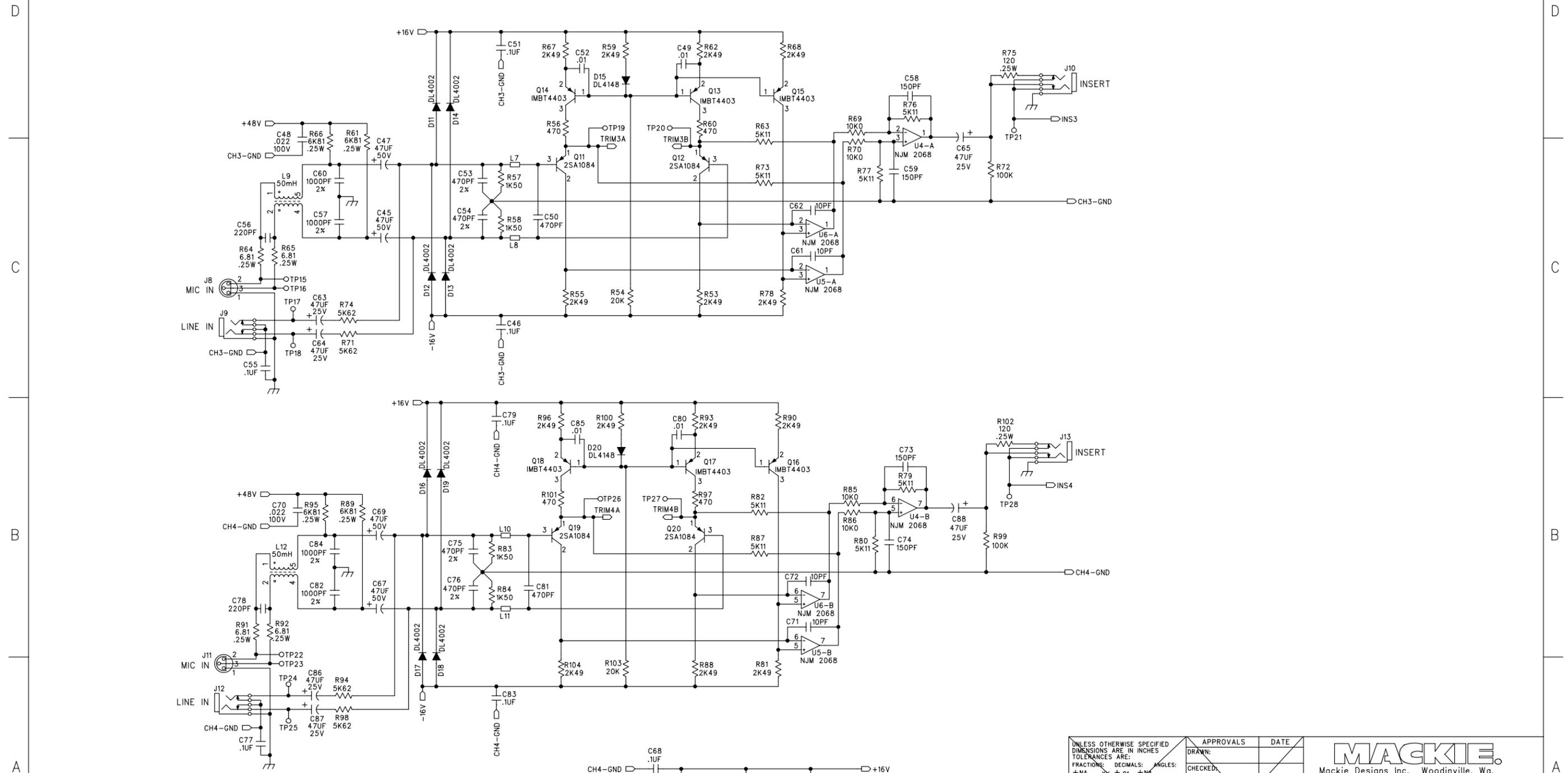


UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ±.NA .XX ±.01 ±.NA .XXX ±.005	APPROVALS	DATE
	DRAWN: KR	2-17-99
	CHECKED:	
	NP ENG:	
MATERIAL:	MATERIAL:	
FINISH:	MFG:	
DO NOT SCALE DRAWING	MFG ENG:	
	ISSUED:	

MACKIE
Mackie Designs Inc. Woodinville, Wa.

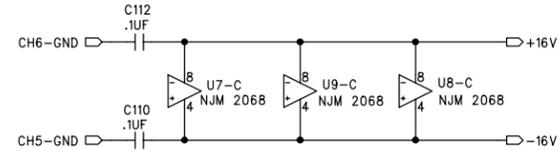
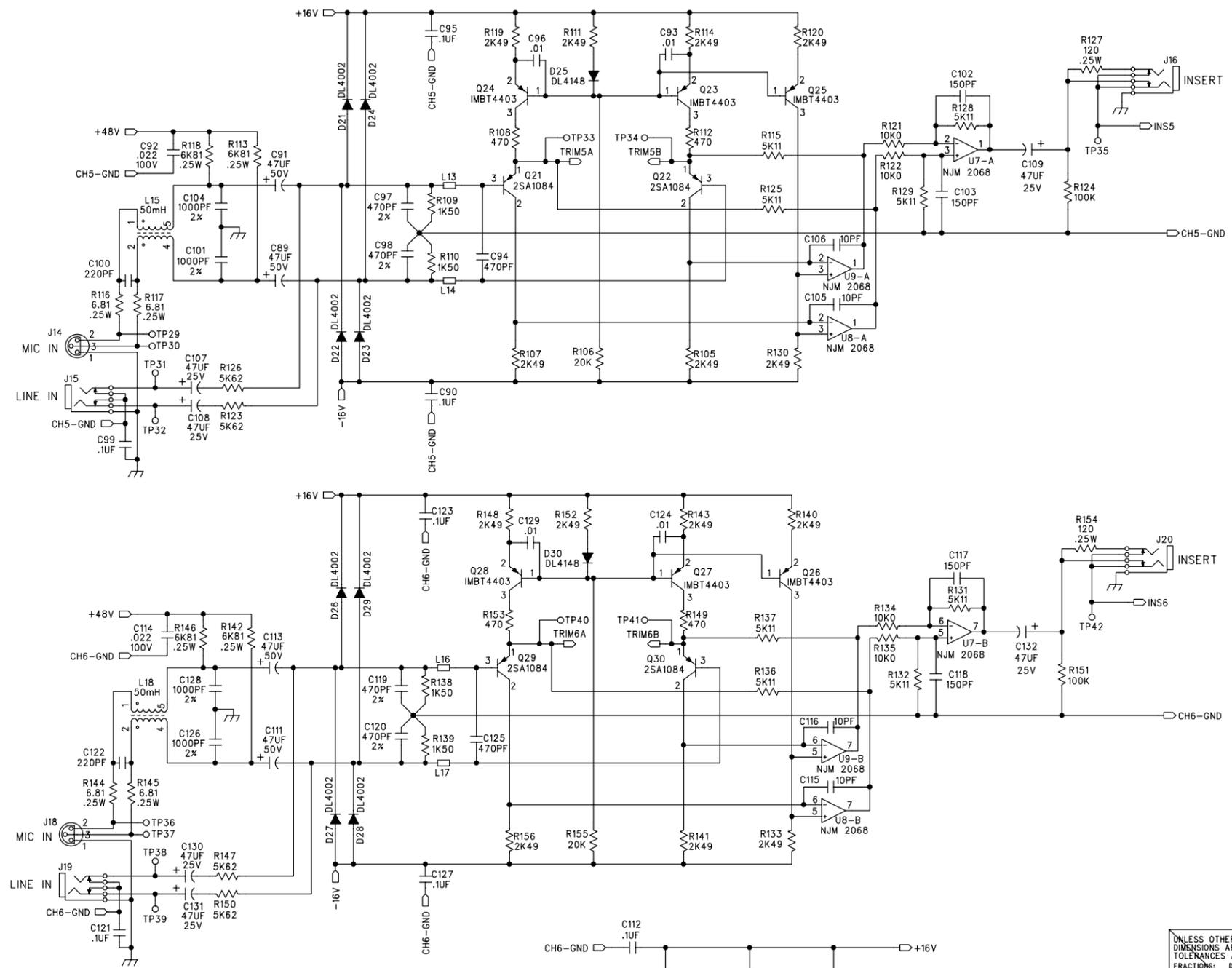
SCHEMATIC, 1642VLZ PRO
MIC INPUT, CH 1/2

SIZE	SCALE:	DWG. NO.	REV.
D	NONE	990-257-00	A
DWG FILE:		SHEET	1 OF 6



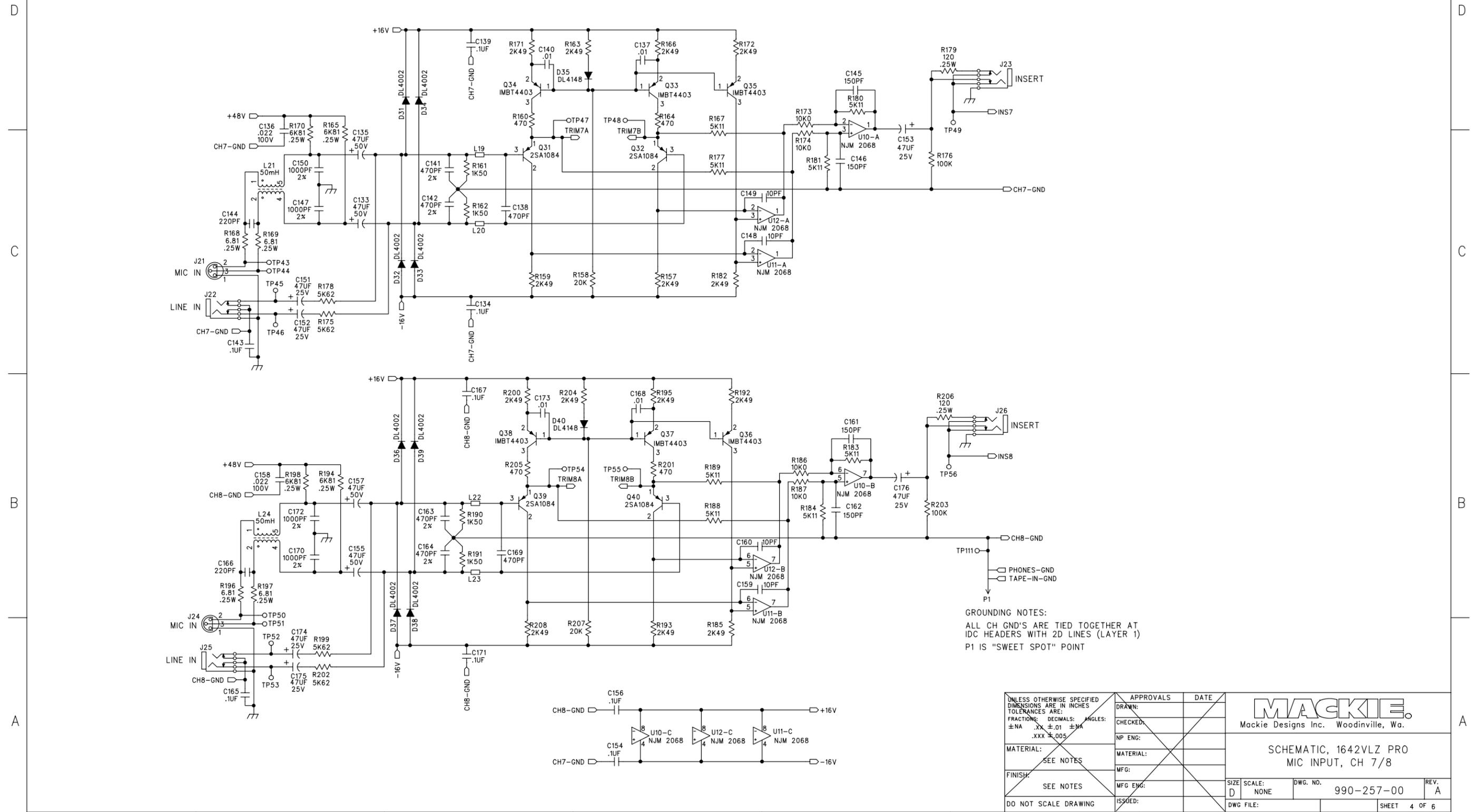
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ±NA .XX ±.01 ±NA .XXX ±.005	APPROVALS	DATE	<p>Mackie Designs Inc. Woodinville, Wa.</p> <p>SCHMATIC, 1642VLZ PRO MIC INPUT, CH 3/4</p>
	DRAWN:		
	CHECKED:		
	NP ENG:		
MATERIAL:	MATERIAL:		SIZE: D SCALE: NONE DWG. NO. 990-257-00 REV. A DWG FILE: SHEET 2 OF 6
SEE NOTES	MFG:		
SEE NOTES	MFG ENG:		
DO NOT SCALE DRAWING	ISSUED:		

257-2 MIC INPUT BOARD 257 REV A



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

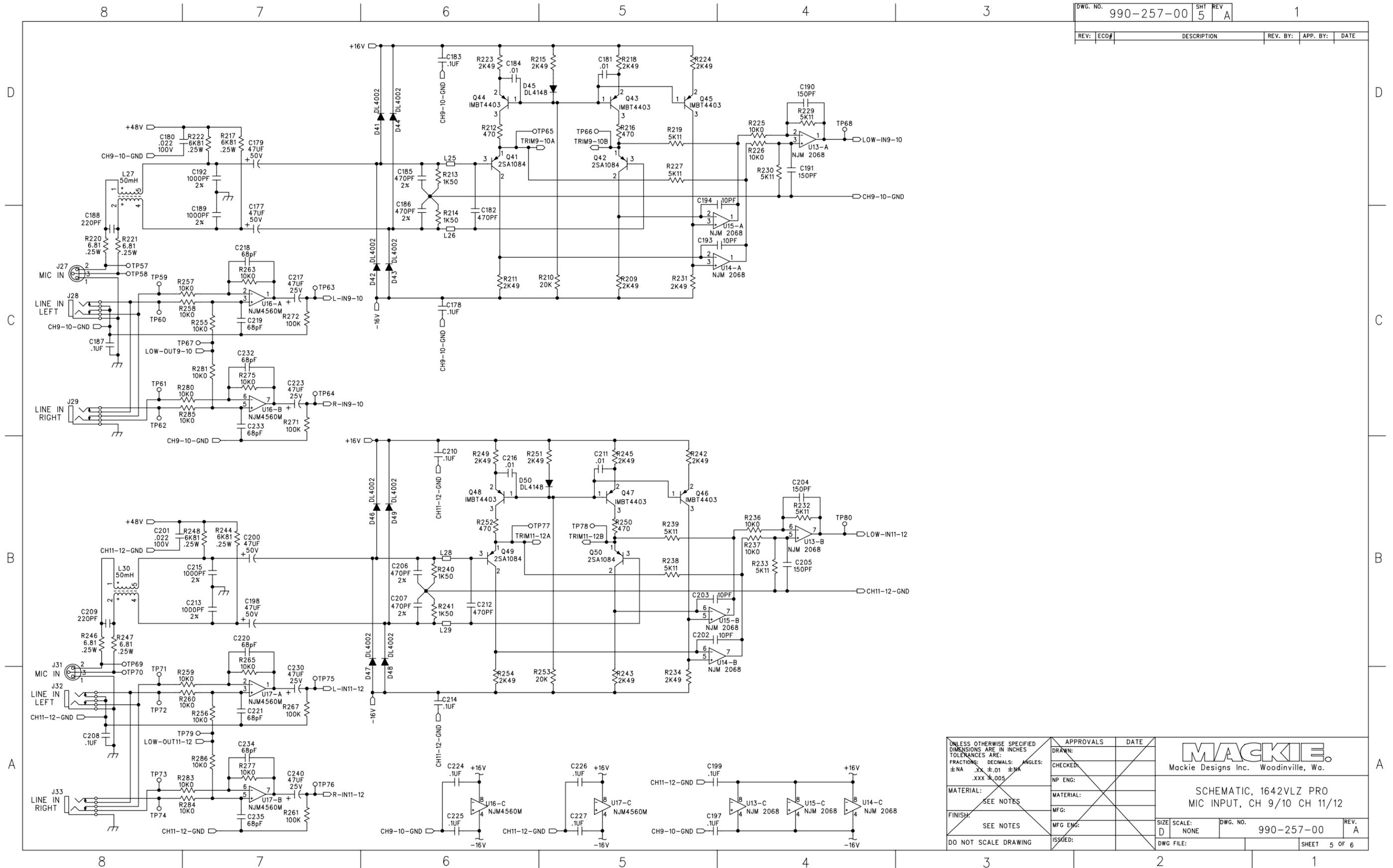
MACKIE Mackie Designs Inc. Woodinville, Wa.		
SCHEMATIC, 1642VLZ PRO MIC INPUT, CH 5/6		
SIZE: D	SCALE: NONE	DWG. NO. 990-257-00 REV. A
DWG. FILE:		SHEET 3 OF 6



GROUNDING NOTES:
 ALL CH GND'S ARE TIED TOGETHER AT
 IDC HEADERS WITH 2D LINES (LAYER 1)
 P1 IS "SWEET SPOT" POINT

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>SCHMATIC, 1642VLZ PRO MIC INPUT, CH 7/8</p>			
	DRAWN:					
	CHECKED:					
	NP ENG:					
MATERIAL:	MATERIAL:		SIZE: D	SCALE: NONE	DWG. NO. 990-257-00	REV. A
SEE NOTES	MFG:		DWG FILE:			SHEET 4 OF 6
DO NOT SCALE DRAWING	MFG ENG:					
	ISSUED:					

257-4 MIC INPUT BOARD 257 REV A

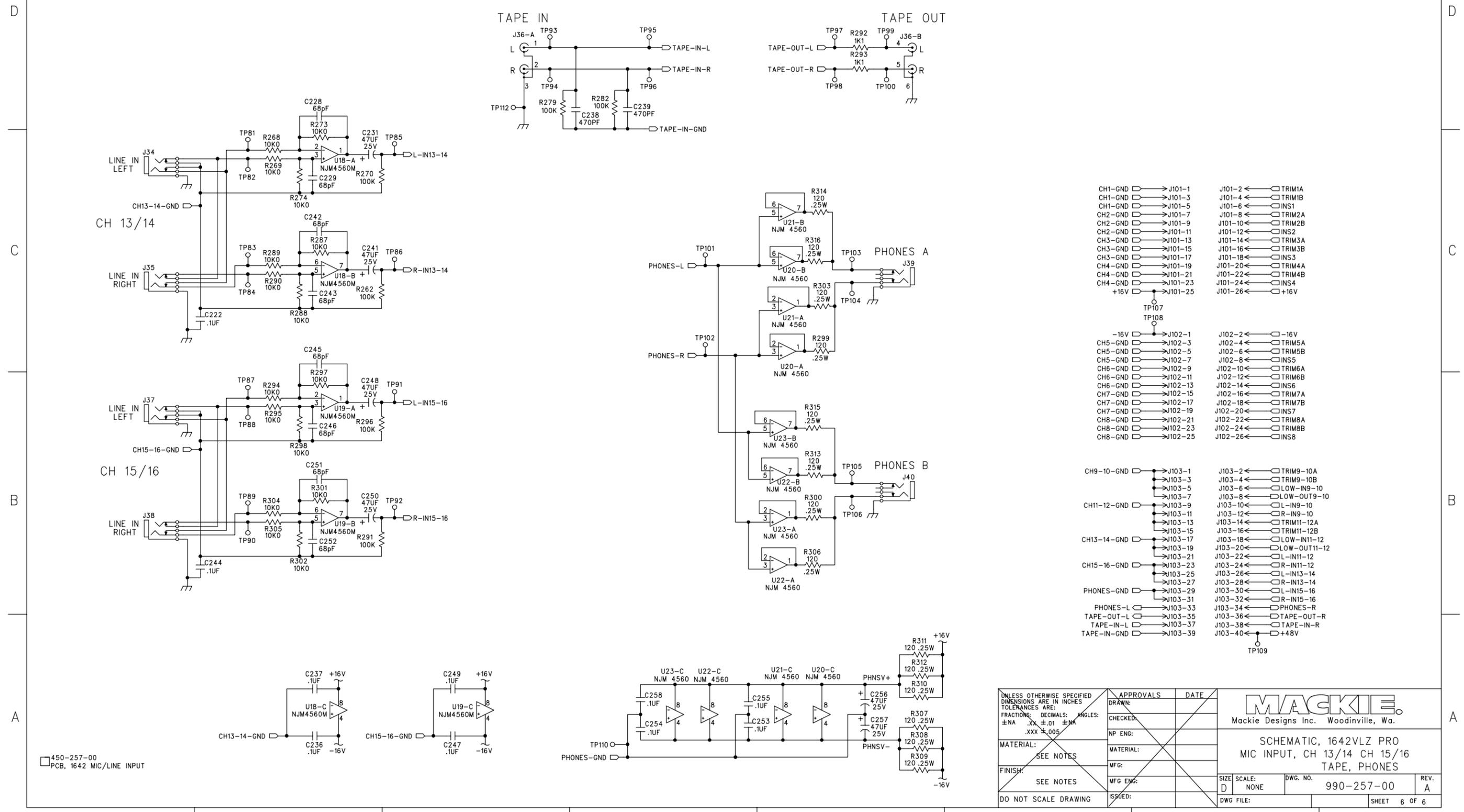


UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: .XX ±.01 DECIMALS: .XXX ±.005 ANGLES: ±NA MATERIAL: SEE NOTES FINISH: SEE NOTES DO NOT SCALE DRAWING	APPROVALS	DATE
	DRAWN:	
	CHECKED:	
	NP ENG:	

MACKIE
Mackie Designs Inc. Woodinville, Wa.

SCHMATIC, 1642VLZ PRO
MIC INPUT, CH 9/10 CH 11/12

SIZE: D	SCALE: NONE	DWG. NO. 990-257-00	REV. A
DWG FILE:		SHEET 5 OF 6	



- CH1-GND → J101-1
- CH1-GND → J101-3
- CH1-GND → J101-5
- CH2-GND → J101-7
- CH2-GND → J101-9
- CH2-GND → J101-11
- CH3-GND → J101-13
- CH3-GND → J101-15
- CH3-GND → J101-17
- CH4-GND → J101-19
- CH4-GND → J101-21
- CH4-GND → J101-23
- +16V → J101-25
- J101-2 ← TRIM1A
- J101-4 ← TRIM1B
- J101-6 ← INS1
- J101-8 ← TRIM2A
- J101-10 ← TRIM2B
- J101-12 ← INS2
- J101-14 ← TRIM3A
- J101-16 ← TRIM3B
- J101-18 ← INS3
- J101-20 ← TRIM4A
- J101-22 ← TRIM4B
- J101-24 ← INS4
- J101-26 ← +16V
- 16V → J102-1
- CH5-GND → J102-3
- CH5-GND → J102-5
- CH5-GND → J102-7
- CH6-GND → J102-9
- CH6-GND → J102-11
- CH6-GND → J102-13
- CH7-GND → J102-15
- CH7-GND → J102-17
- CH8-GND → J102-19
- CH8-GND → J102-21
- CH8-GND → J102-23
- J102-2 ← -16V
- J102-4 ← TRIM5A
- J102-6 ← TRIM5B
- J102-8 ← INS5
- J102-10 ← TRIM6A
- J102-12 ← TRIM6B
- J102-14 ← INS6
- J102-16 ← TRIM7A
- J102-18 ← TRIM7B
- J102-20 ← INS7
- J102-22 ← TRIM8A
- J102-24 ← TRIM8B
- J102-26 ← INS8
- CH9-10-GND → J103-1
- J103-2 ← TRIM9-10A
- J103-3 ← TRIM9-10B
- J103-4 ← LOW-IN9-10
- J103-5 ← LOW-OUT9-10
- J103-6 ← L-IN9-10
- J103-7 ← R-IN9-10
- J103-8 ← TRIM11-12A
- J103-9 ← TRIM11-12B
- J103-10 ← LOW-IN11-12
- J103-11 ← LOW-OUT11-12
- J103-12 ← L-IN11-12
- J103-13 ← R-IN11-12
- J103-14 ← L-IN13-14
- J103-15 ← R-IN13-14
- J103-16 ← L-IN15-16
- J103-17 ← R-IN15-16
- J103-18 ← L-IN15-16
- J103-19 ← R-IN15-16
- J103-20 ← PHONES-L
- J103-21 ← PHONES-R
- J103-22 ← TAPE-OUT-L
- J103-23 ← TAPE-OUT-R
- J103-24 ← TAPE-IN-L
- J103-25 ← TAPE-IN-R
- J103-26 ← +48V
- CH11-12-GND → J103-3
- CH13-14-GND → J103-7
- CH15-16-GND → J103-11
- PHONES-GND → J103-15
- PHONES-L → J103-19
- PHONES-R → J103-21
- TAPE-OUT-L → J103-23
- TAPE-OUT-R → J103-25
- TAPE-IN-L → J103-27
- TAPE-IN-R → J103-29
- TAPE-IN-GND → J103-31

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE: FRACTIONS: DECIMALS: ANGLES: ±NA .XX ±.01 ±NA .XXX ±.005	APPROVALS	DATE	
	CHECKED:		
	NP ENG:		
	MATERIAL:		
SEE NOTES	MATERIAL:		SCHEMATIC, 1642VLZ PRO MIC INPUT, CH 13/14 CH 15/16 TAPE, PHONES
SEE NOTES	MFG:		
DO NOT SCALE DRAWING	MFG ENG:		SIZE: D SCALE: NONE DWG. NO. 990-257-00 REV. A DWG FILE: SHEET 6 OF 6

