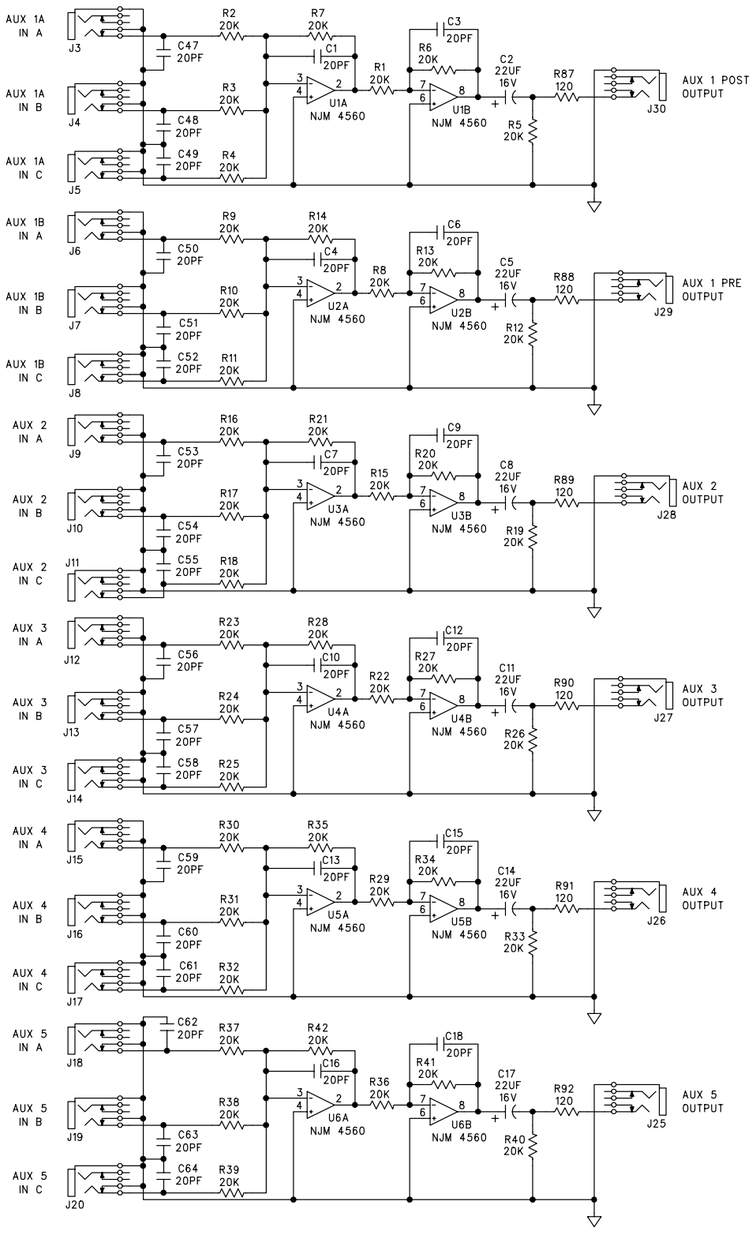

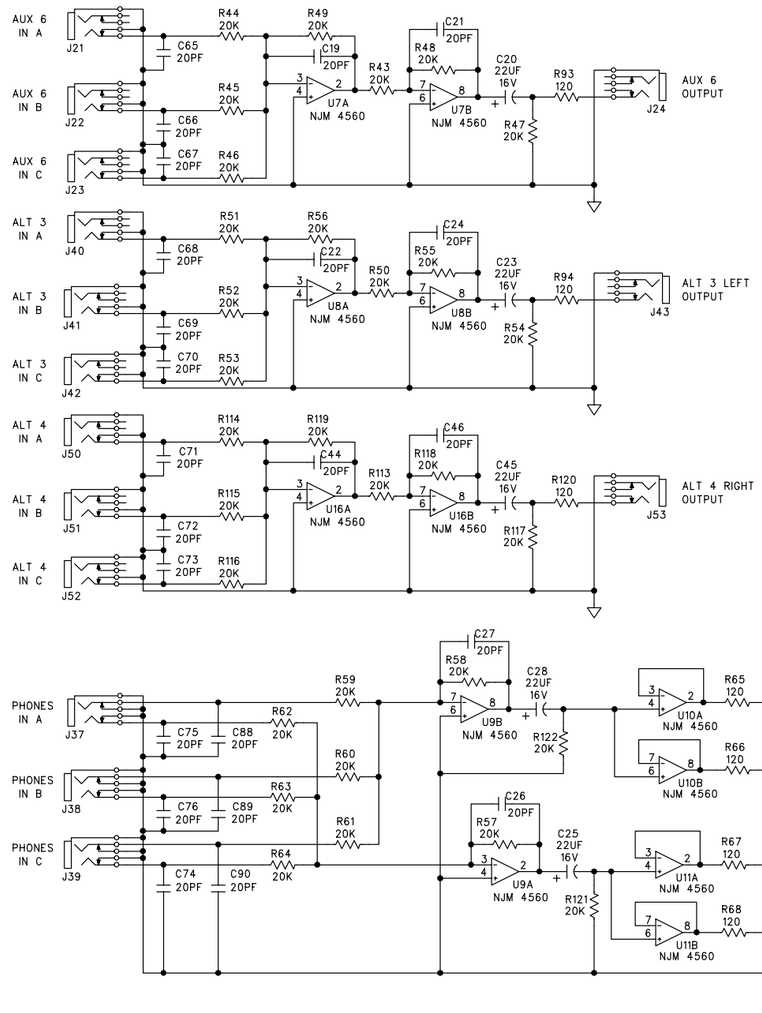

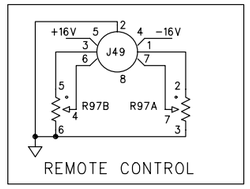

DWG. NO.	SHT	REV:
990-006-00	1	G

ECO#	REV:	DESCRIPTION	REV. BY:	APP. BY:	DATE
145 216	E	PHASE 1 ADDED HOLES IN TABS	TRH		7-18-94
NA	F	CONVERTED TO PADS	TRH		7-22-94
NA	G	REVISED HOLE DIA	TRH		8-22-94

☐ 450-006-00 PCB, MIXER-MIXER
☐ 706-004-00 SPACER, PLASTIC
☐ 760-002-00 BUTTON, SWITCH

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

MATERIAL: SEE NOTES

FINISH: SEE NOTES

DO NOT SCALE DRAWING

CONTRACT NO:

APPROVALS	DATE
DRAWN: trh	7-18-94
CHECKED:	
ISSUED:	
ENG:	
MFG:	

Mackie Designs Inc. Woodinville, Wa.

SCHEMATIC
MIXER-MIXER

SIZE	DWG. NO.	REV.
D	990-006-00	G

SCALE: NONE SHEET 1 OF 2

BACK
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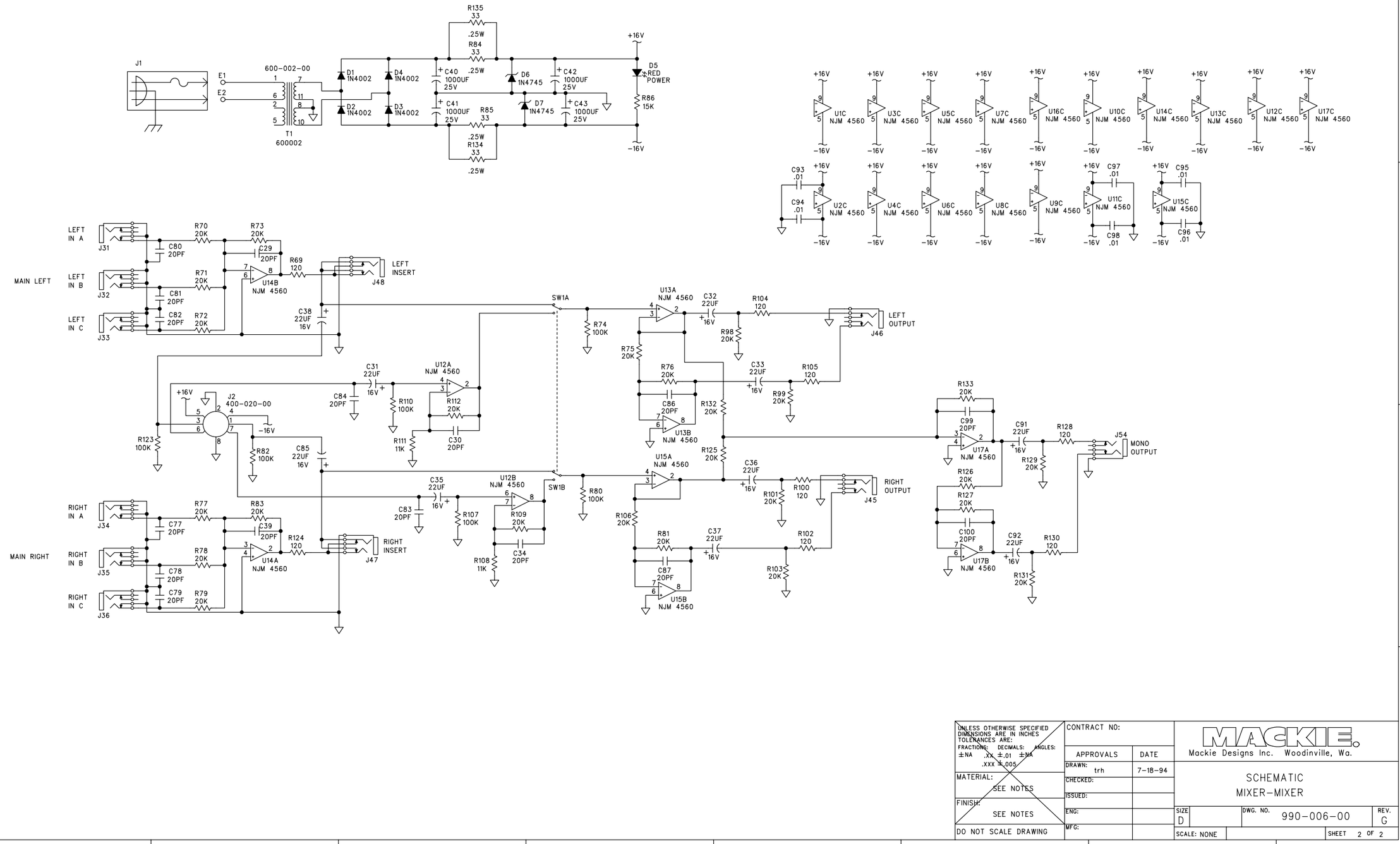
DWG. NO.	SHT	REV:
990-006-00	2	G

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



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: ±NA DECIMALS: .XX ±.01 ±NA .XXX ±.005 ANGLES: ±NA	CONTRACT NO:	MACKIE. Mackie Designs Inc. Woodinville, Wa.
MATERIAL: SEE NOTES	APPROVALS / DATE	SCHEMATIC MIXER-MIXER
FINISH: SEE NOTES	DRAWN: trh 7-18-94	SIZE D · DWG. NO. 990-006-00 · REV. G
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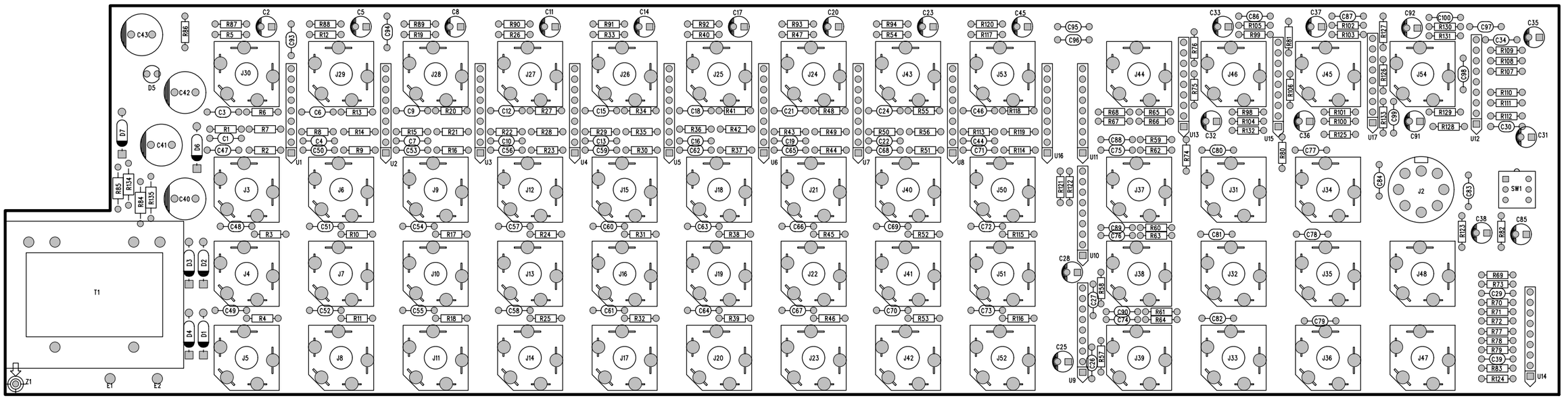
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C42
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Z1
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DWG. NO.	SHT	REV:
990-005-00	1	J

ECO#	REV:	DESCRIPTION	REV. BY:	APP. BY:	DATE
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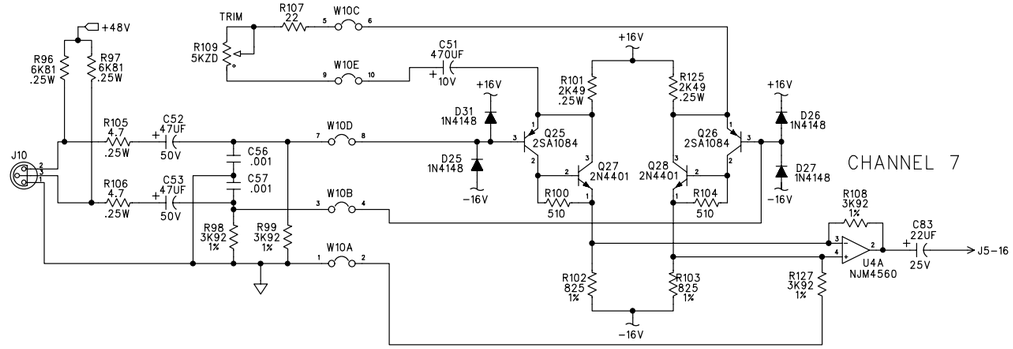
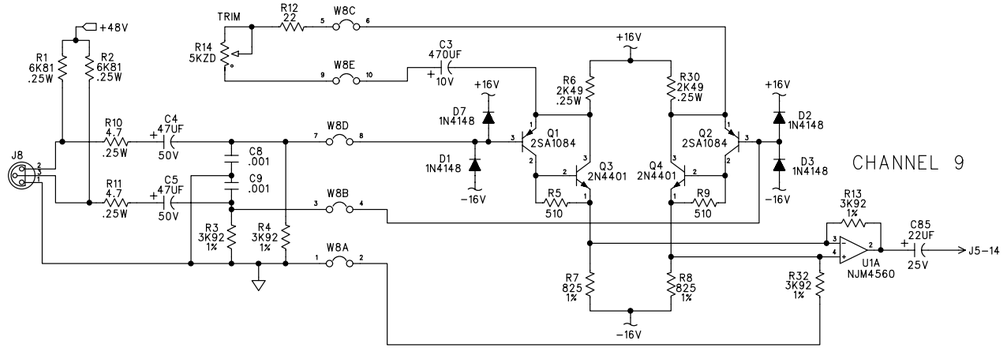
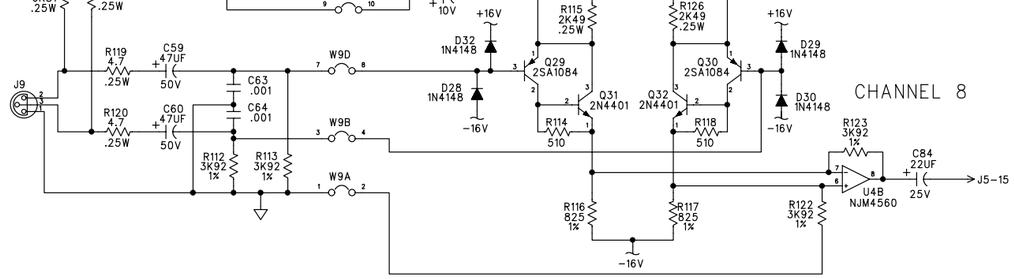
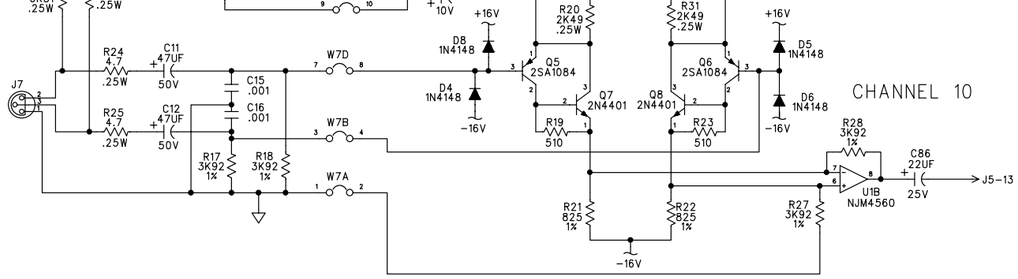
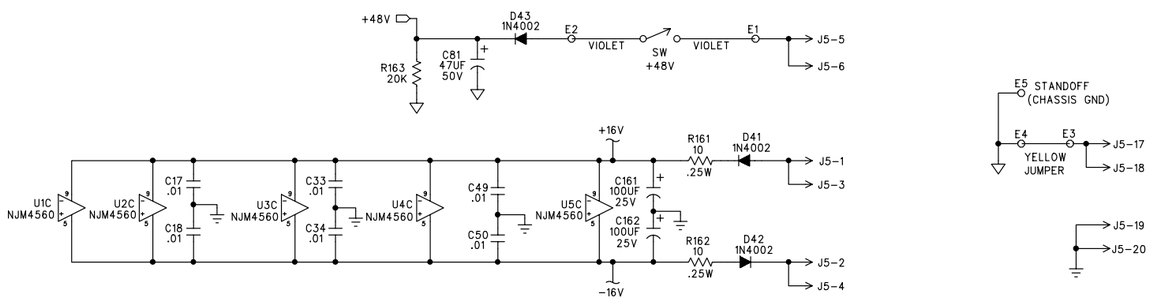
	J	INCORPORATED ECO 427	KR		4-12-95











- ☐ 706-013-00 STANDOFF, XLR10
- ☐ 706-013-00 STANDOFF, XLR10
- ☐ 706-013-00 STANDOFF, XLR10
- ☐ 706-013-00 STANDOFF, XLR10
- ☐ 706-013-00 STANDOFF, XLR10
- ☐ 706-013-00 STANDOFF, XLR10
- ☐ 610-007-00 WIRE, 6.5" VIOLET
- ☐ 610-007-00 WIRE, 6.5" VIOLET
- ☐ 610-005-00 WIRE, 2.5" YELLOW
- ☐ 450-005-00 PCB, XLR10

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

CONTRACT NO:

APPROVALS	DATE
DRAWN: KR	1-10-95
CHECKED:	
ISSUED:	
ENG:	
MFG:	

Mackie Designs Inc. Woodinville, Wa.

SCHEMATIC
XLR-10

SIZE D | DWG. NO. 990-005-00 | REV. J
SCALE: NONE | SHEET 1 OF 2

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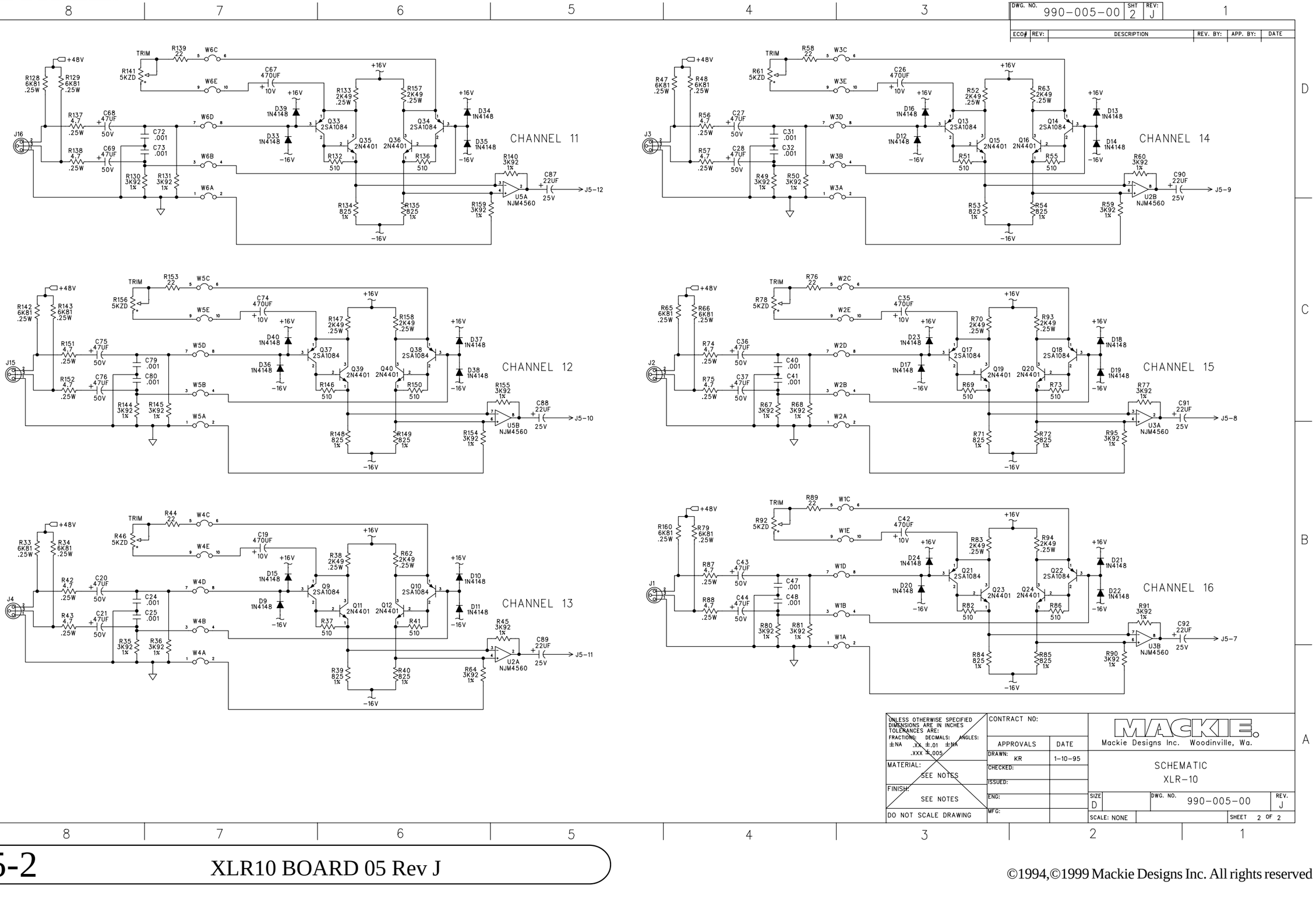

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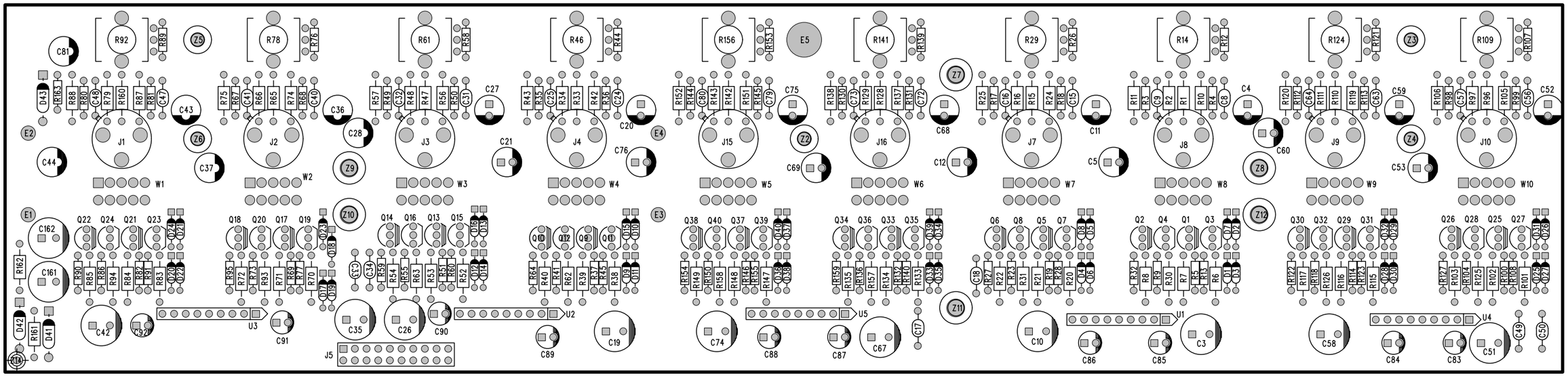

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DWG. NO.	SHT	REV:
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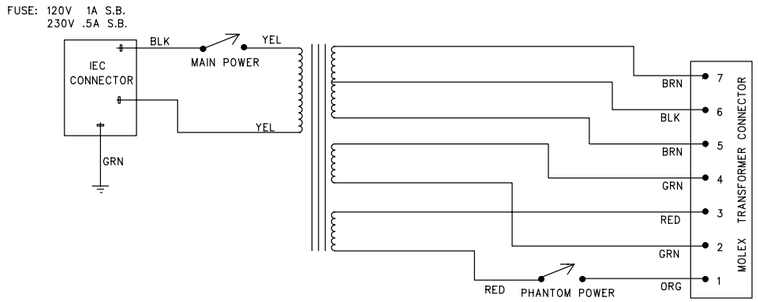
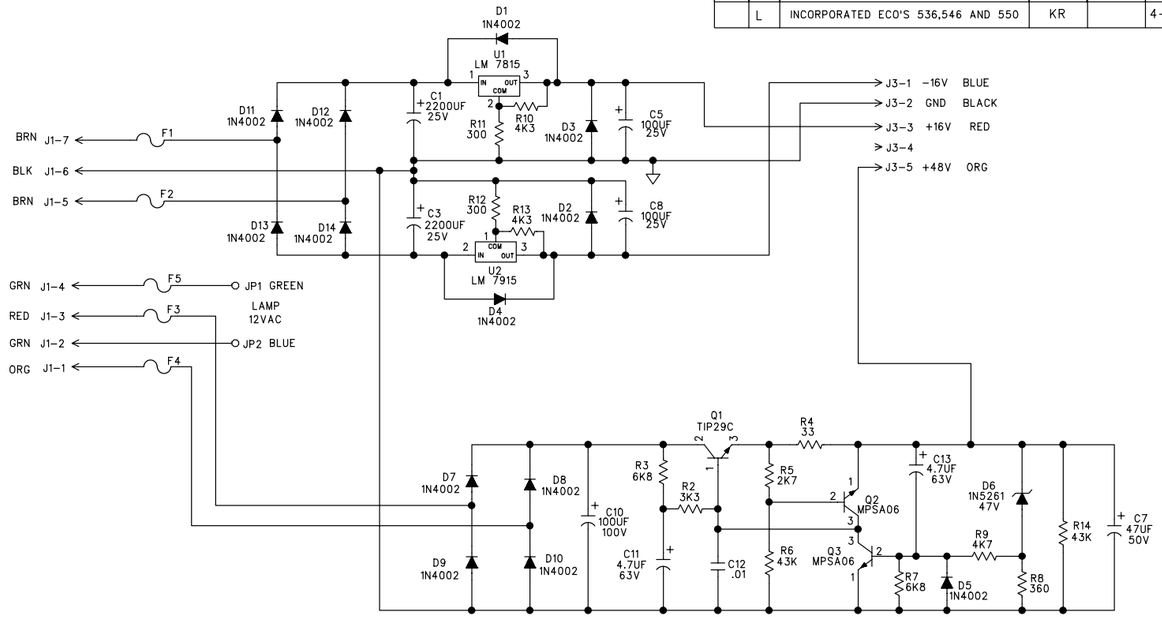
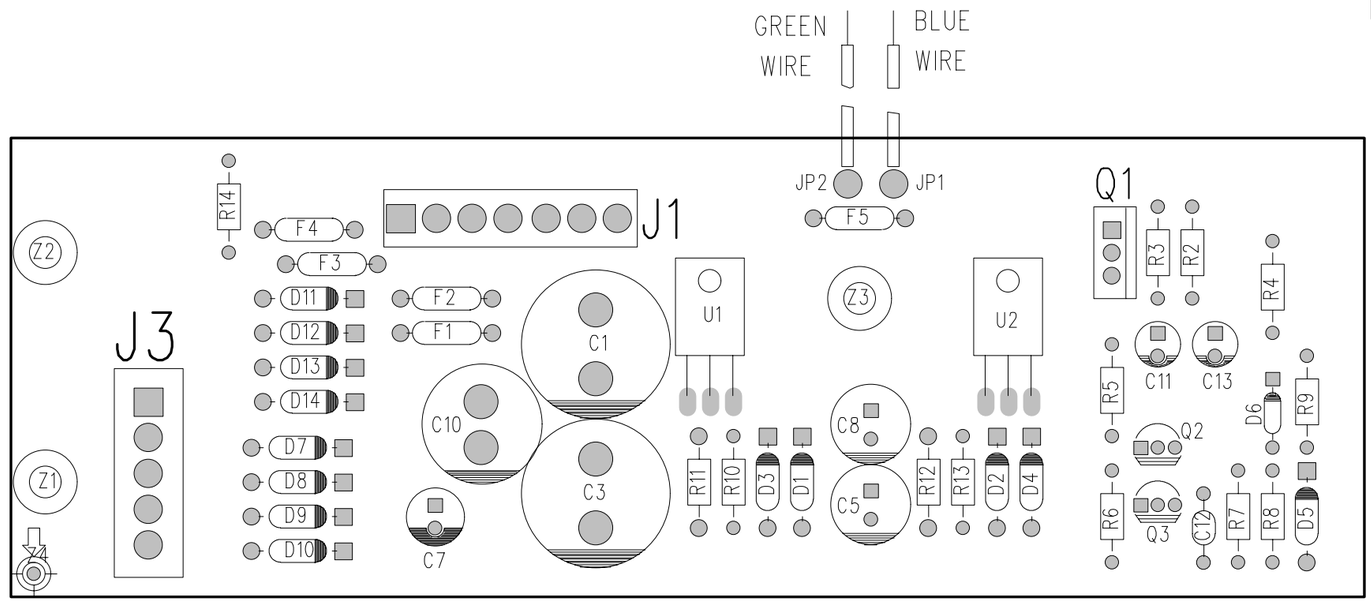
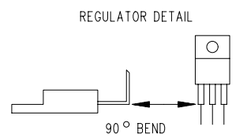
	L	INCORPORATED ECO'S 536,546 AND 550	KR		4-6-95









☐ 450-004-00 PCB, CR1604 POWER SUPPLY
☐ 610-008-00 BLUE WIRE 3.5
☐ 610-006-00 GREEN WIRE 3.0

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: ±NA DECIMALS: .XX ±.01 .XXX ±.005 ANGLES: ±NA	CONTRACT NO:	Mackie Designs Inc. Woodinville, Wa.
	APPROVALS / DATE	SCHEMATIC
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FINISH: SEE NOTES	CHECKED:	SIZE D / DWG. NO. 990-004-00 / REV. L
DO NOT SCALE DRAWING	ISSUED: / ENG: / MFG:	SCALE: NONE / SHEET 1 OF 1

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DWG. NO.	SHT	REV:
990-003-00	1	H

ECO#	REV:	DESCRIPTION	REV. BY:	APP. BY:	DATE
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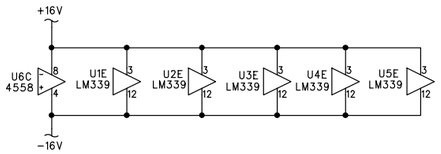
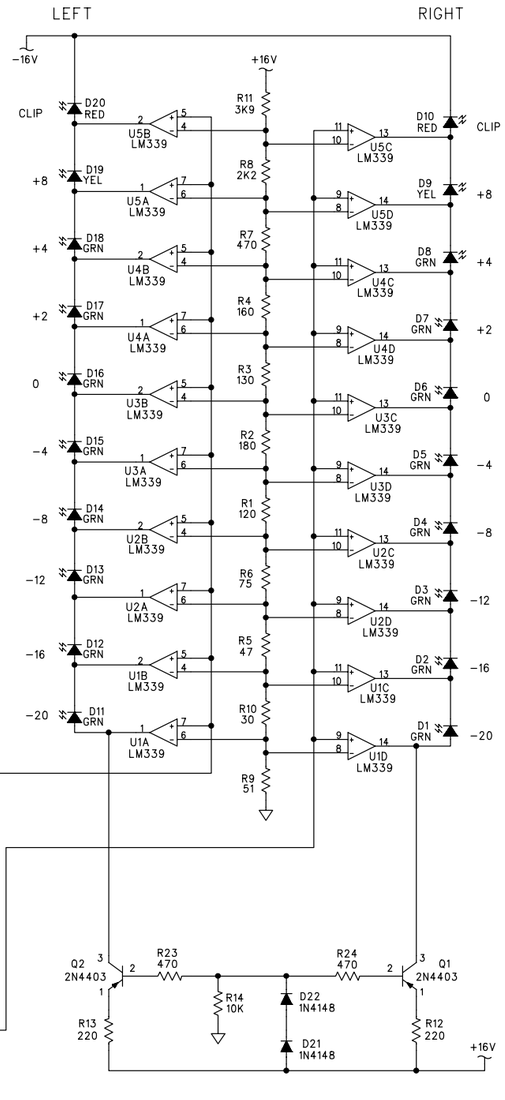
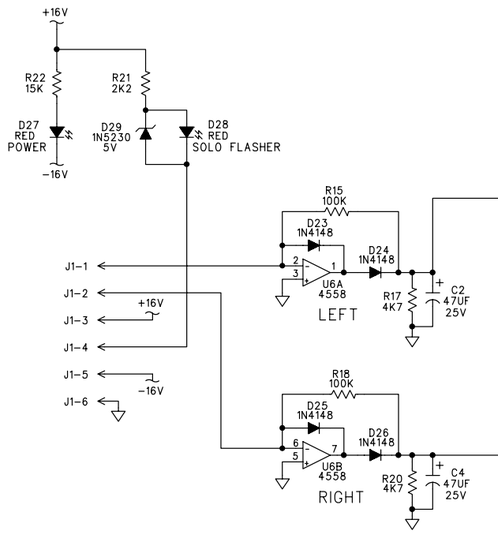
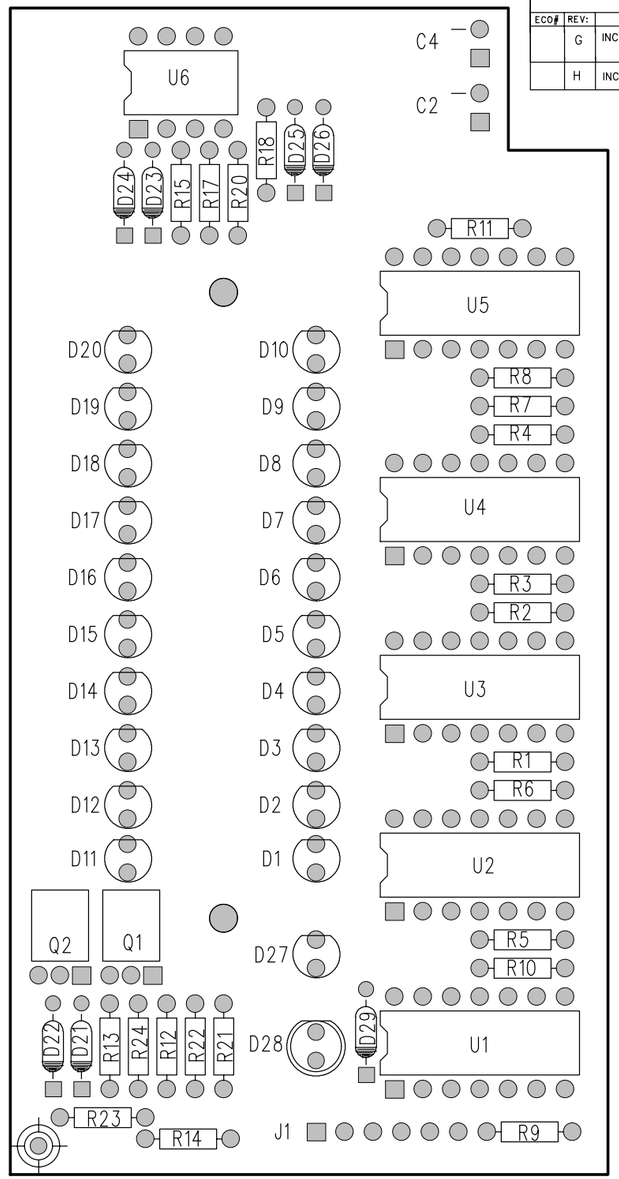
	H	INCORPORATED ECO 542	KR		3-30-95









706-008-00 STANDOFF, SWAGE

706-008-00 STANDOFF, SWAGE

450-003-00 PCB, CR1604 METER

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

MATERIAL: SEE NOTES

FINISH: SEE NOTES

DO NOT SCALE DRAWING

CONTRACT NO:

APPROVALS	DATE
DRAWN: KR	3-30-95
CHECKED:	
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ENG:	
MFG:	

MACKIE.
Mackie Designs Inc. Woodinville, Wa.

SCHEMATIC
CR-1604 METER

SIZE	DWG. NO.	REV.
D	990-003-00	H

SCALE: NONE SHEET 1 OF 1

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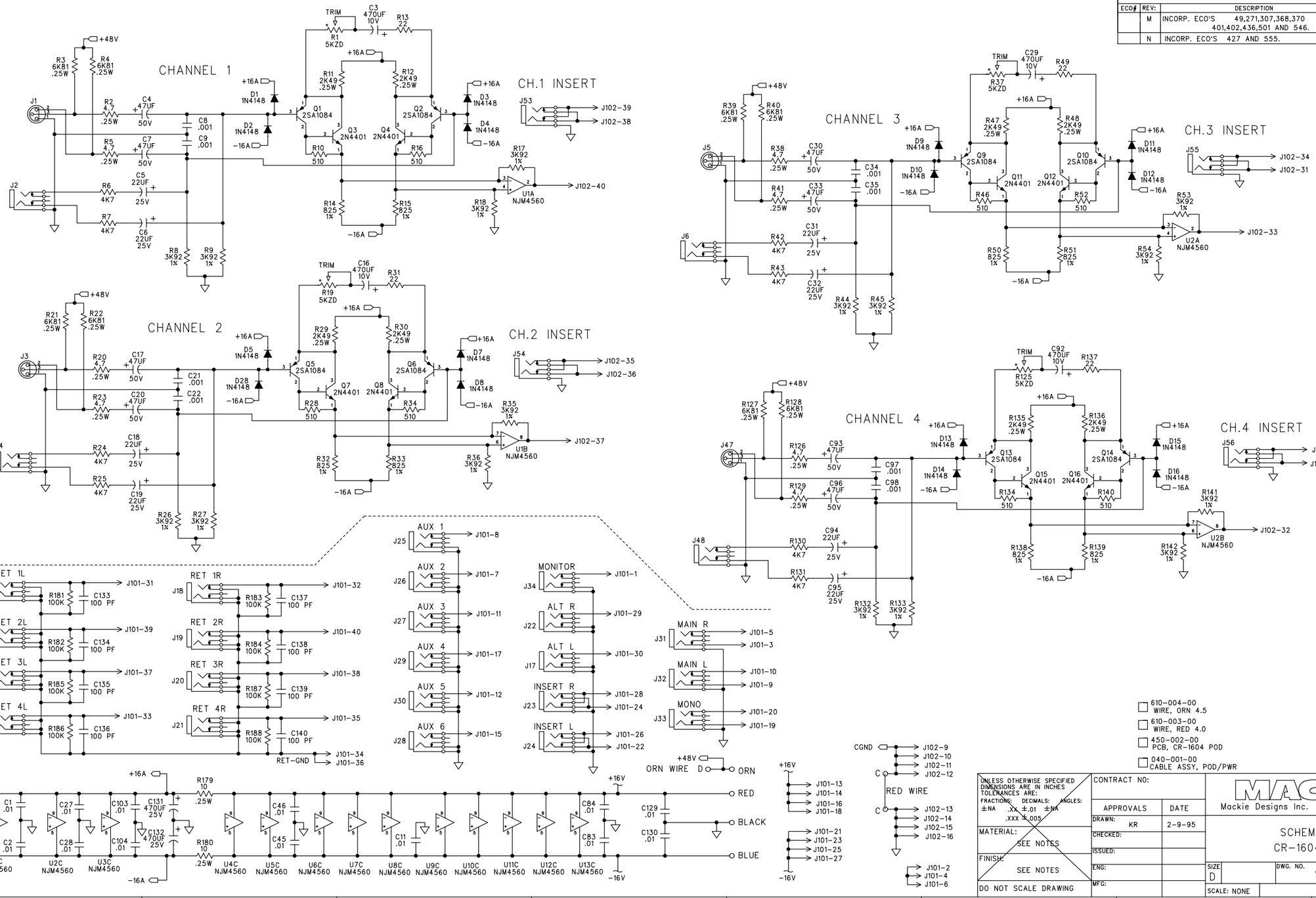
BACK

DWG. NO.	SHT	REV:
990-002-00	1	N

ECO#	REV:	DESCRIPTION	REV. BY:	APP. BY:	DATE
	M	INCORP. ECO'S 49,271,307,368,370 401,402,436,501 AND 546.	KR		2-9-95
	N	INCORP. ECO'S 427 AND 555.	KR		4-13-95



610-004-00 WIRE, ORN 4.5
610-003-00 WIRE, RED 4.0
450-002-00 PCB, CR-1604 POD
040-001-00 CABLE ASSY, POD/PWR

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

CONTRACT NO:

APPROVALS	DATE
DRAWN: KR	2-9-95
CHECKED:	
ISSUED:	
ENG:	
MFG:	

MACKIE. Mackie Designs Inc. Woodinville, Wa.

SCHEMATIC
CR-1604 POD

SIZE D | DWG. NO. 990-002-00 | REV. N
SCALE: NONE | SHEET 1 OF 2

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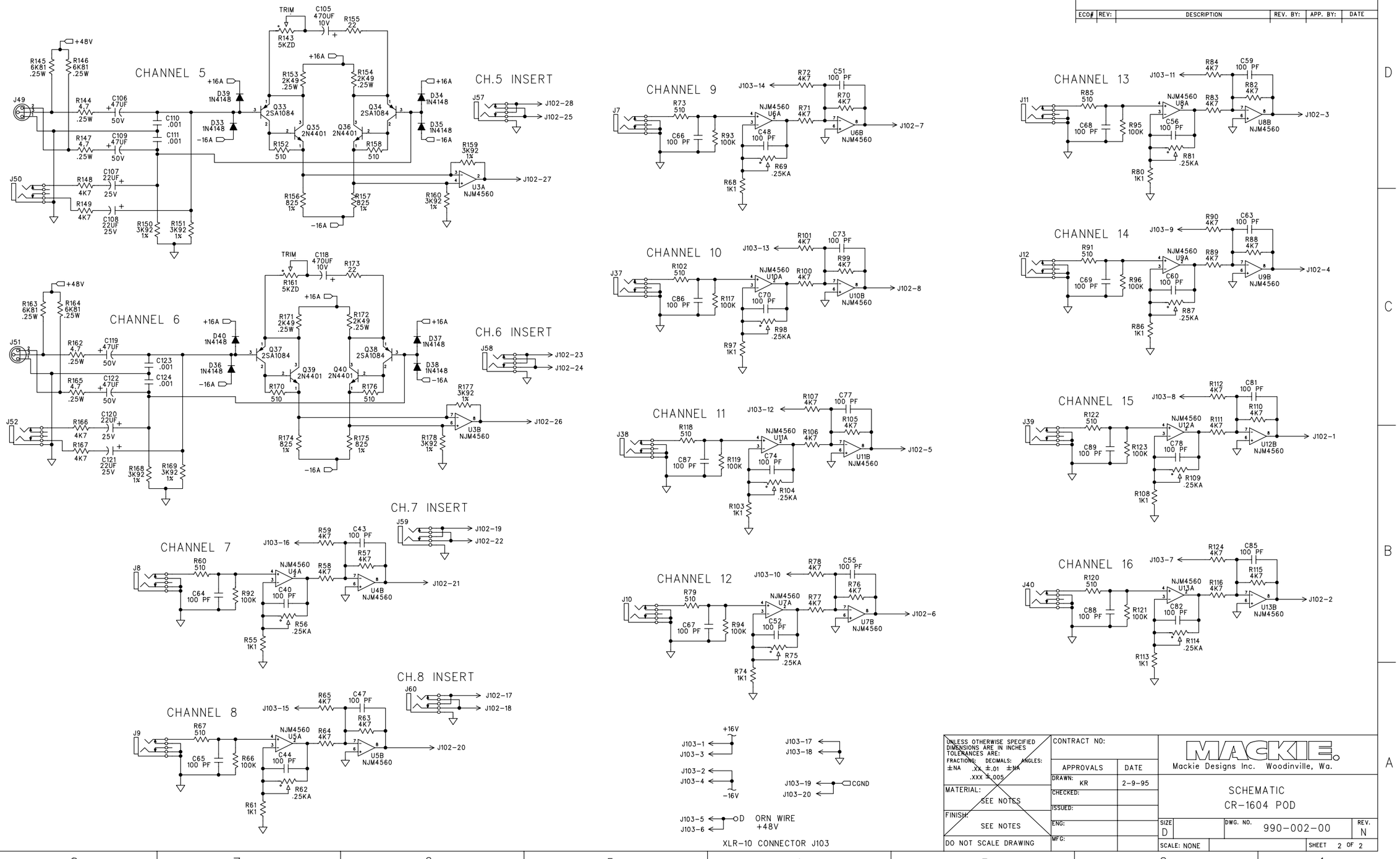

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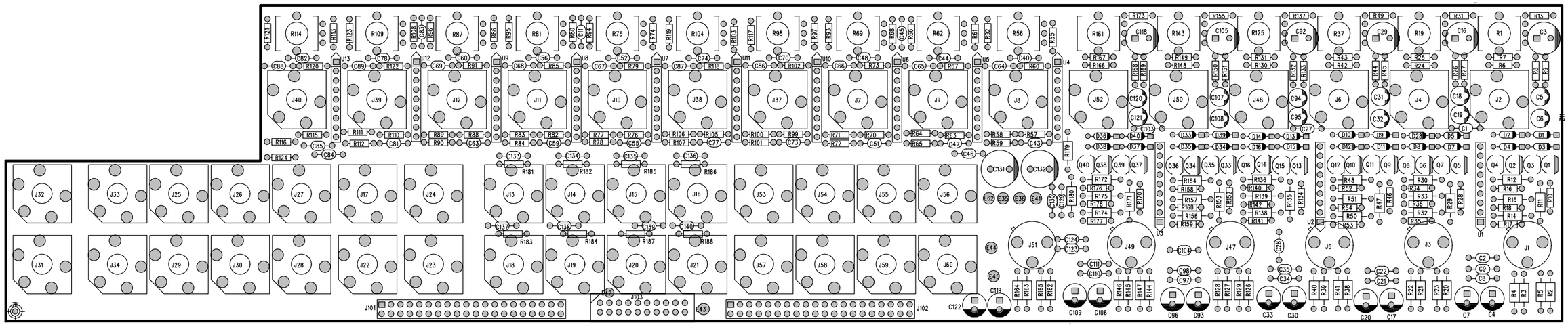

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XLR-10 Installation

❶ First make sure that the CR-1604 is turned off. Flip it upside down with the jacks facing you (there is no need to actually remove the pod) and remove the small connector cover near the pod's center. Save the cover and screws by taping them to the bottom of the mixer.

❷ Remove the pod's rubber feet.

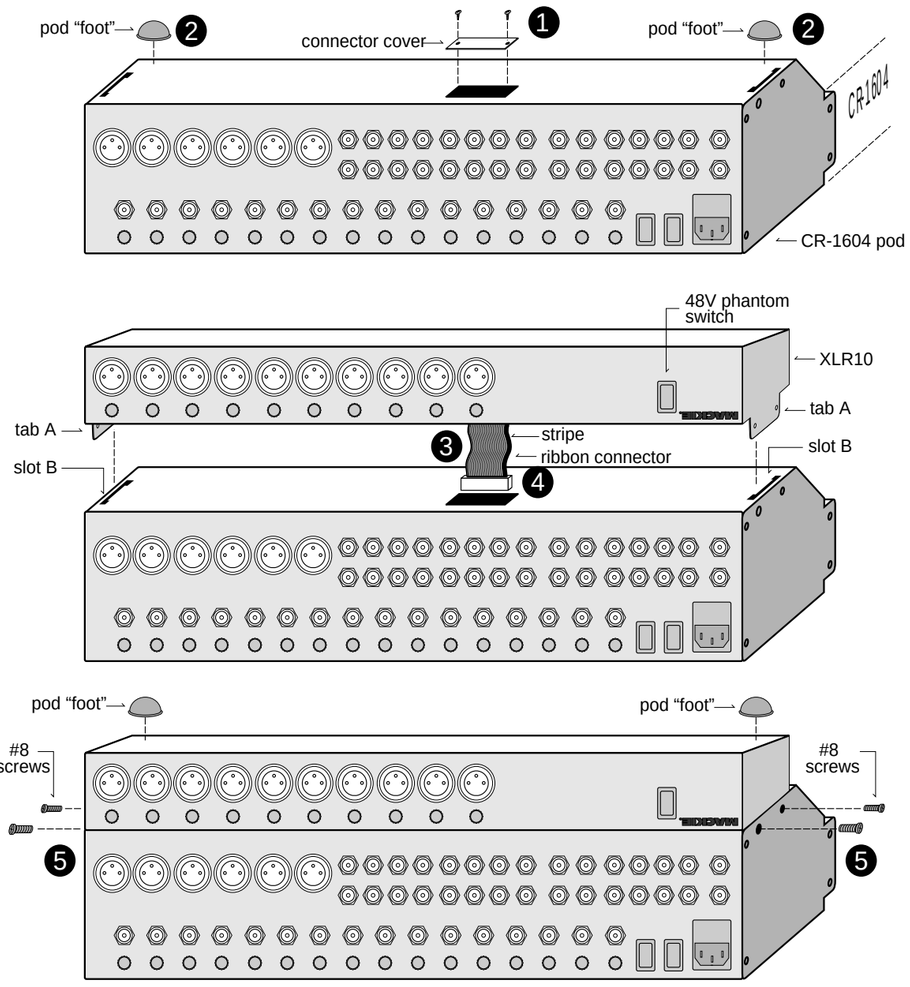
❸ Install the ribbon connector which extends out of the XLR10 by pressing the plug onto the exposed pins. Make sure that the stripe on the ribbon is on the side closest to the XLR 10's phantom switch (the right side in our drawing).

❹ As you lower the XLR10 towards the CR-1604 pod, work the excess ribbon cable back into the XLR10 by wiggling it gently.

❺ Slide the tabs on the sides of the XLR10 into the slots on the top of the CR- 1604 and secure them with the four #8 screws provided. Don't push on the screws while attaching them, since doing so may dislodge the mounted nuts on the inside of the pod.

❻ Install the new pod feet.

Happy mixing!



Operating Instructions

When you combine the CR-1604 with the XLR10 you can use the added mic inputs by themselves or, if you're starved for inputs, you can use both mic and line inputs simultaneously.

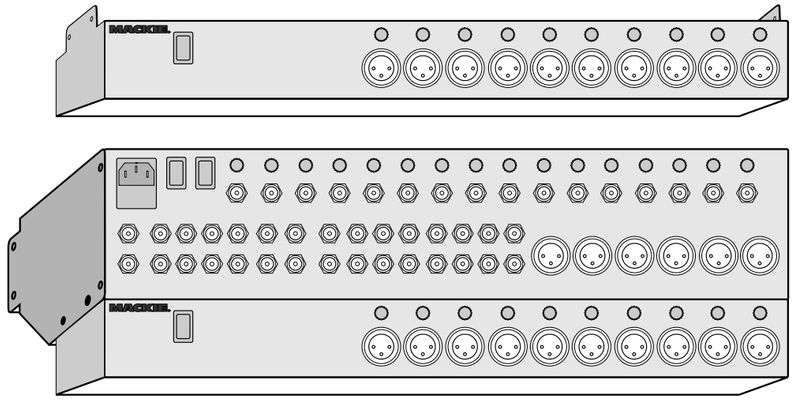
In other words, with the XLR10, you actually get 10 more inputs. On Channels 7 through 16 only, the XLR mic inputs can be used with the existing line inputs. Each has its own sensitivity control.

Set the sensitivity controls as you normally would. Put the channel into SOLO to read its operating level on the main output meter.

1. Adjust the mic sensitivity control first .

2. With the mic placed where it will normally operate in relation to the acoustic source, start at minimum (fully counterclockwise), then turn the gain up until you get a reading of around 0dB on the meter.

3. Finally, adjust the line input sensitivity until you get the desired balance between mic and line signals.



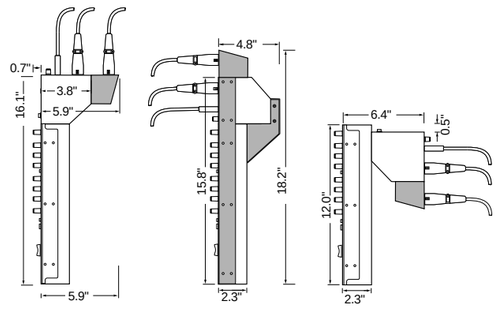
Famous XLR10 Interview Questions

Q. Can the XLR10 be used in all of the three pod variations?

A. Yes, see the drawing below.

Q. Can the XLR10 be used with anything other than the CR-1604?

A. No, it utilizes the internal power supply of the CR-1604 and is not free standing.



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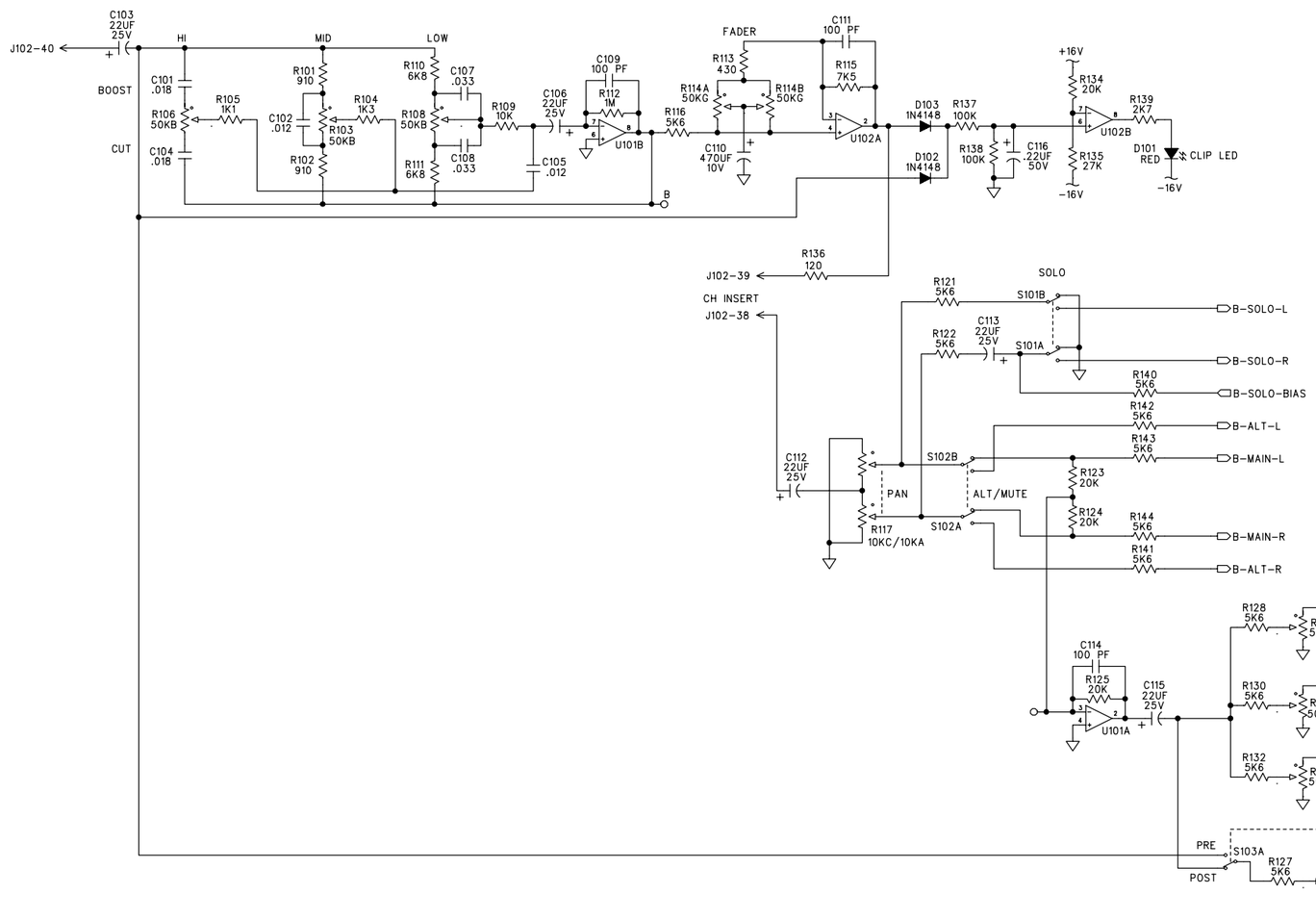
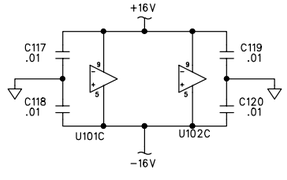
DWG. NO.	SHT	REV:
990-001-00	1	K

ECO#	REV:	DESCRIPTION	REV. BY:	APP. BY:	DATE
	J	INCORPORTATED ECO'S 307,368,400,401, 427,429,486,546 AND 547	KR		2-17-95
	K	INCORPORATED MISC. PCB REFINEMENTS	KR		4-26-95





CHANNEL 1

(CHANNELS 2-8 ARE SIMILAR)

J102-9
J102-10
J102-11
J102-12
J102-13
J102-14
J102-15
J102-16

706-009-00 LED SPACER .440
760-002-00 BUTTON SW 9X9 MM
760-003-00 BUTTON SW 9X5 MM
760-003-00 BUTTON SW 9X5 MM
760-003-00 BUTTON SW 9X5 MM

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

CONTRACT NO:

APPROVALS	DATE
DRAWN: KR	2-17-95
CHECKED:	
ISSUED:	
ENG:	
MFG:	

Mackie Designs Inc. Woodinville, Wa.

SCHEMATIC
CR-1604 MAIN

SIZE	DWG. NO.	REV.
D	990-001-00	K

SCALE: NONE SHEET 1 OF 17

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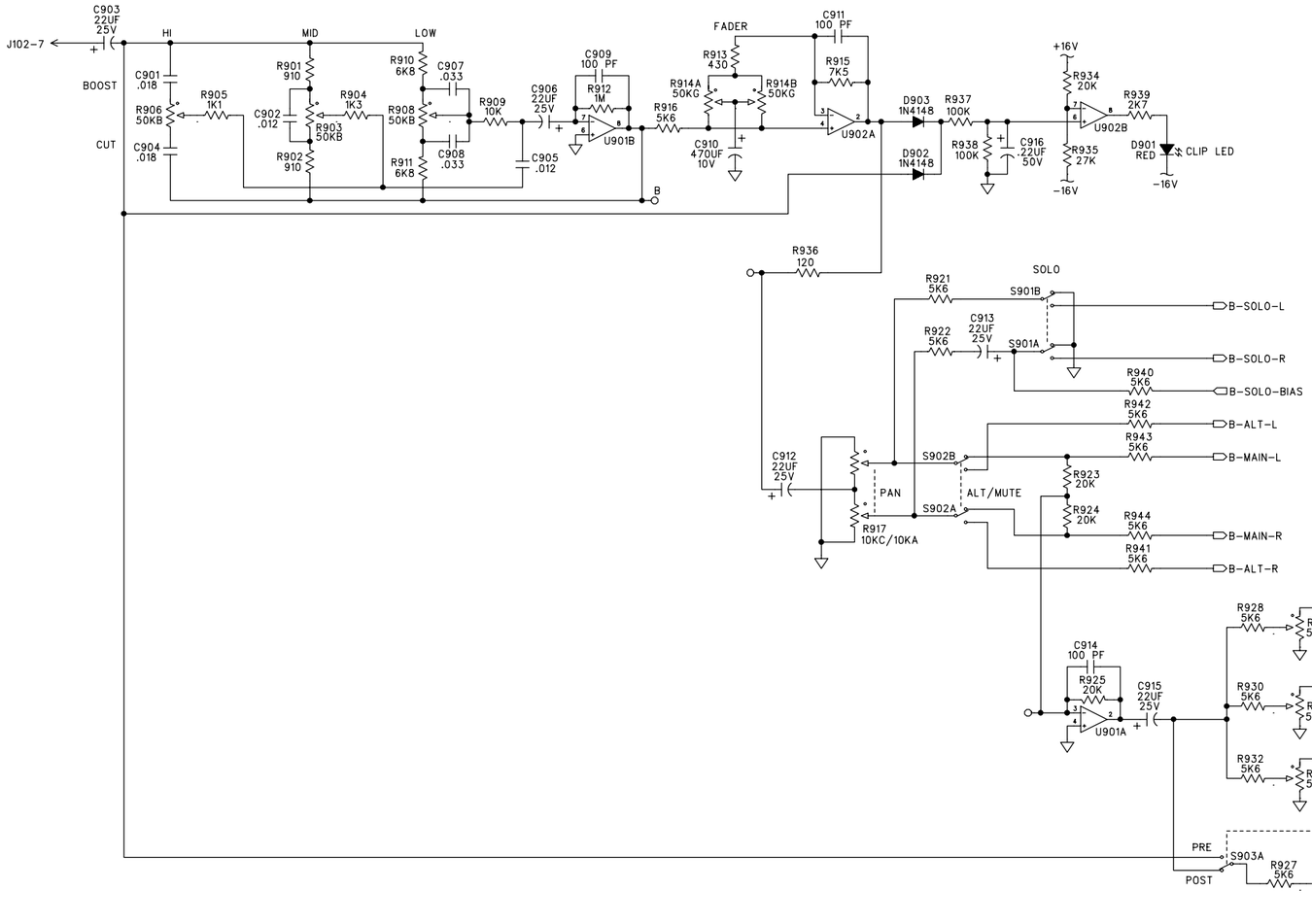
MAIN BOARD 01 Rev K 1-1

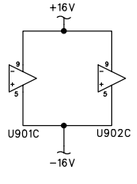
To make it easier to print out all boards at once, all boards are gathered together here

BACK

DWG. NO.	SHT	REV:
990-001-00	9	K

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





CHANNEL 9

(CHANNELS 10-16 ARE SIMILAR)

706-009-00 LED SPACER .440
760-002-00 BUTTON SW 9X9 MM
760-003-00 BUTTON SW 9X5 MM
760-003-00 BUTTON SW 9X5 MM
760-003-00 BUTTON SW 9X5 MM

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

CONTRACT NO:

APPROVALS	DATE
DRAWN: KR	2-17-95
CHECKED:	
ISSUED:	
ENG:	
MFG:	

Mackie Designs Inc. Woodinville, Wa.

SCHEMATIC
CR-1604 MAIN

SIZE	DWG. NO.	REV.
D	990-001-00	K

SCALE: NONE SHEET 9 OF 17

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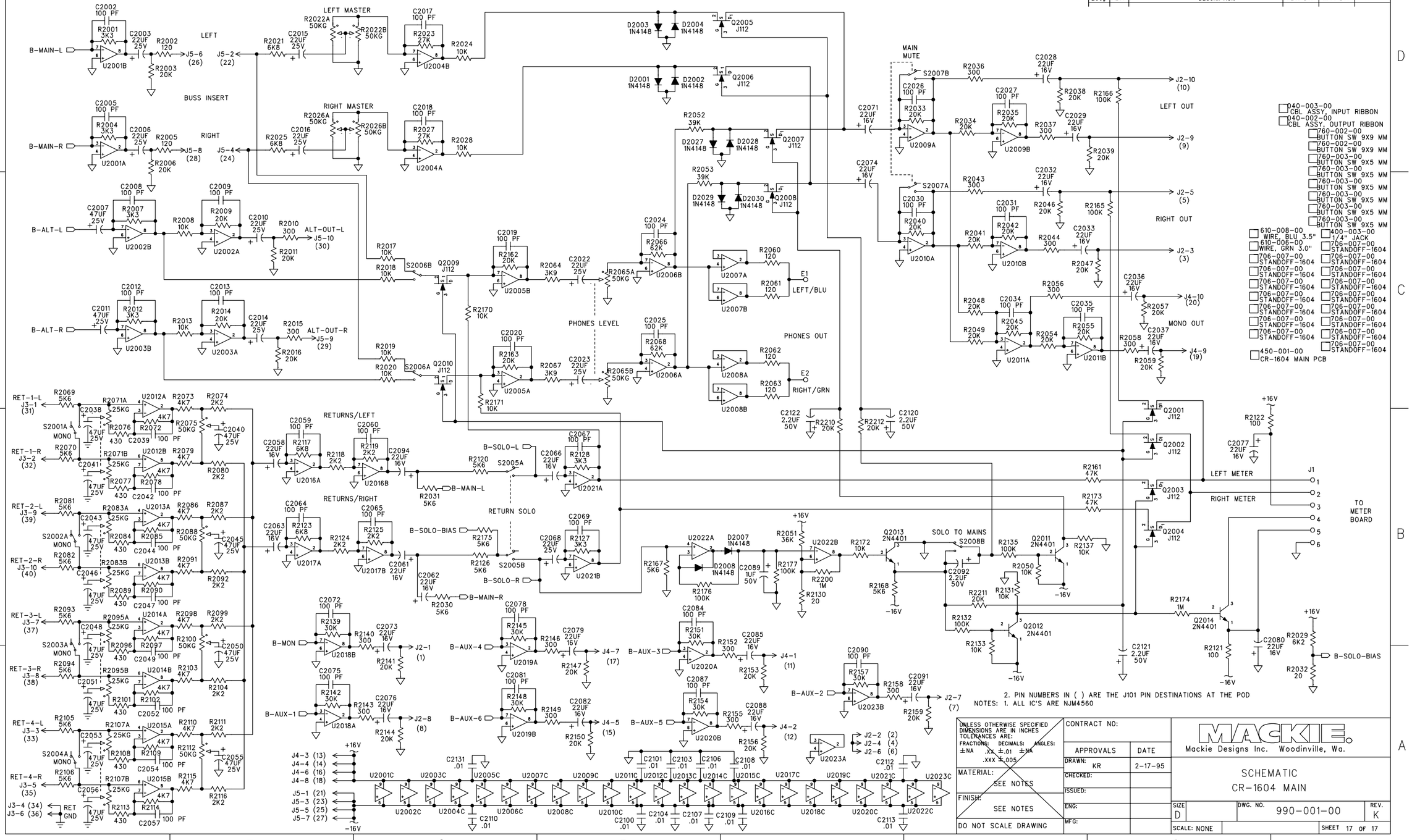
DWG. NO.	SHT	REV:
990-001-00	17	K

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



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: ±NA DECIMALS: .XX ±.01 ANGLES: ±NA .XXX ±.005	CONTRACT NO:	MACKIE. Mackie Designs Inc. Woodinville, Wa.	
	APPROVALS / DATE	SCHEMATIC CR-1604 MAIN	
MATERIAL: SEE NOTES	DRAWN: KR 2-17-95	SIZE D	DWG. NO. 990-001-00 REV. K
FINISH: SEE NOTES	CHECKED:	SCALE: NONE	SHEET 17 OF 17
DO NOT SCALE DRAWING	ISSUED: ENG: MFG:		

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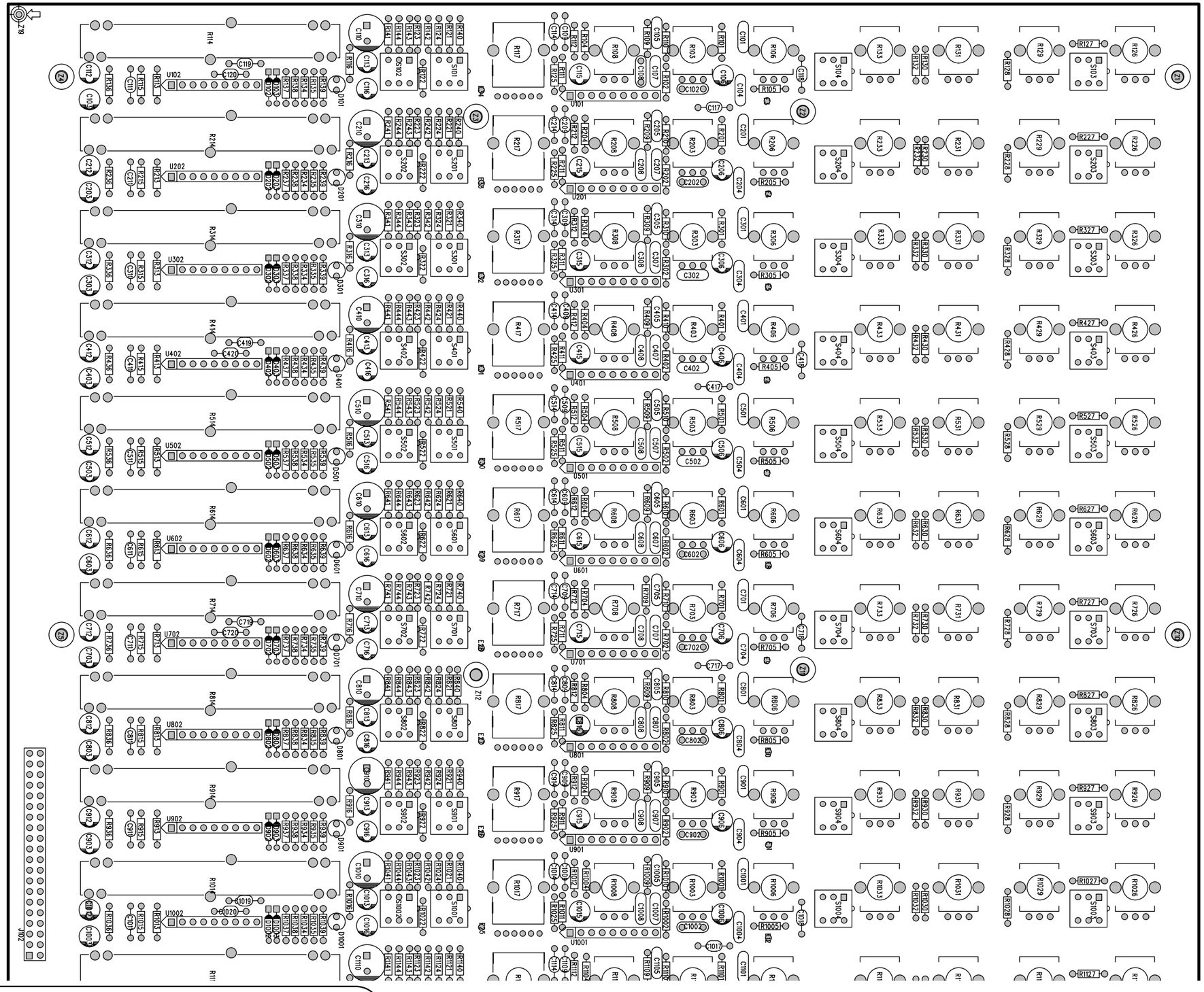

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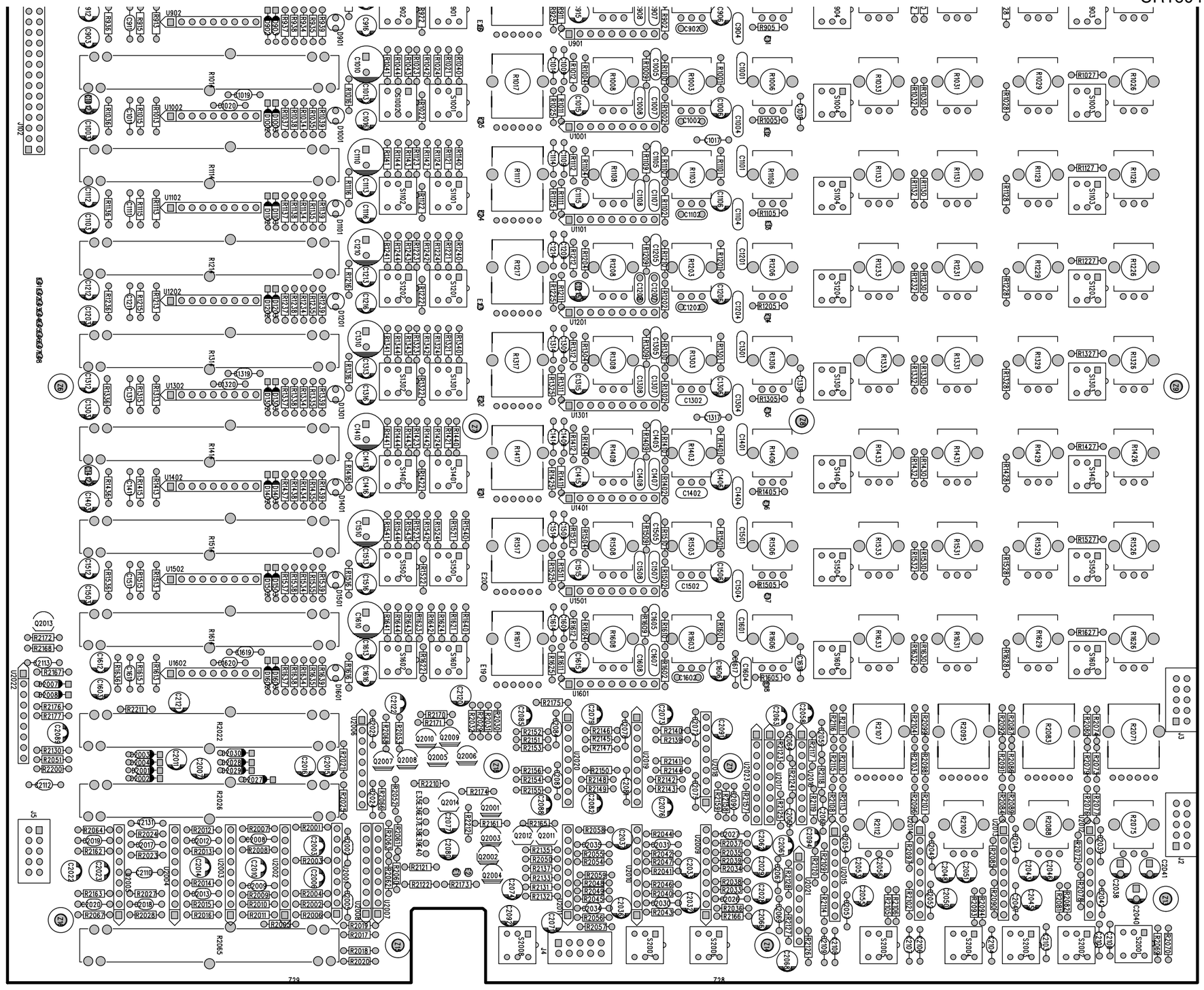

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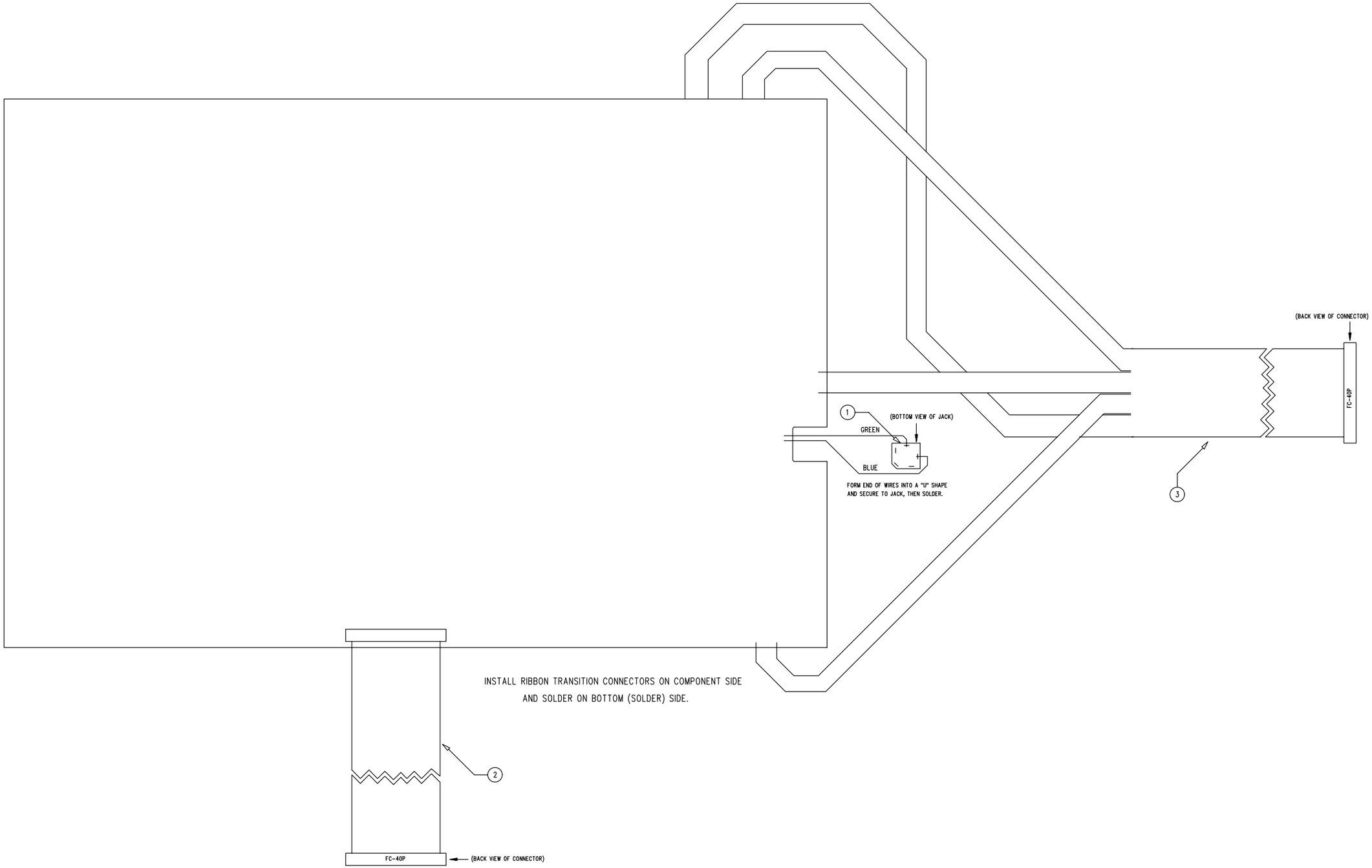

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DWG. NO.	SHT	REV:
990-002-00	1	N

ECO#	REV:	DESCRIPTION	REV. BY:	APP. BY:	DATE
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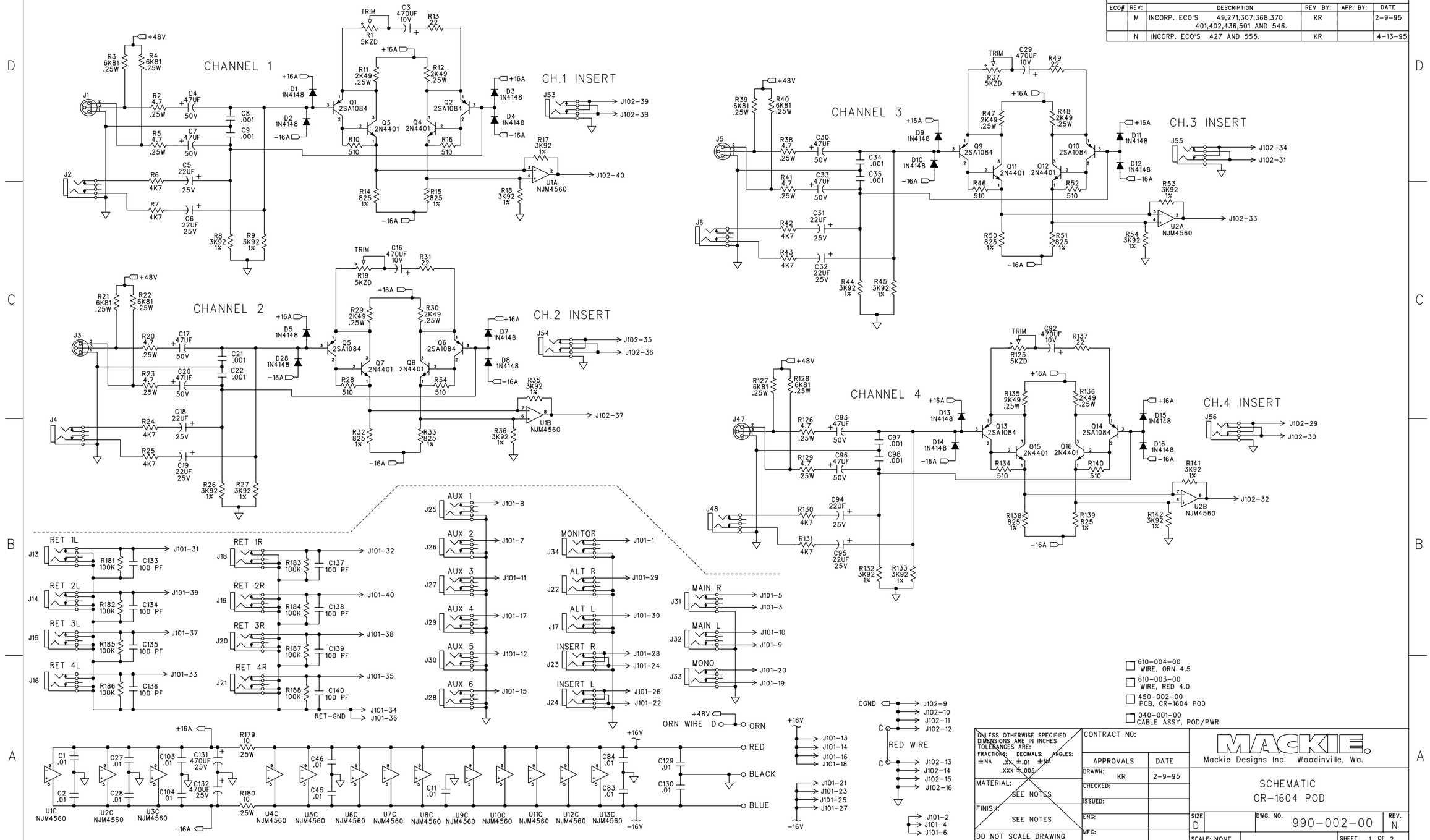
	N	INCORP. ECO'S 427 AND 555.	KR		4-13-95



- ☐ 610-004-00 WIRE, ORN 4.5
- ☐ 610-003-00 WIRE, RED 4.0
- ☐ 450-002-00 PCB, CR-1604 POD
- ☐ 040-001-00 CABLE ASSY, POD/PWR

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

CONTRACT NO:

APPROVALS	DATE
DRAWN: KR	2-9-95
CHECKED:	
ISSUED:	
ENG:	
MFG:	

MACKIE.
Mackie Designs Inc. Woodinville, Wa.

SCHEMATIC
CR-1604 POD

SIZE D | DWG. NO. 990-002-00 | REV. N
SCALE: NONE | SHEET 1 OF 2

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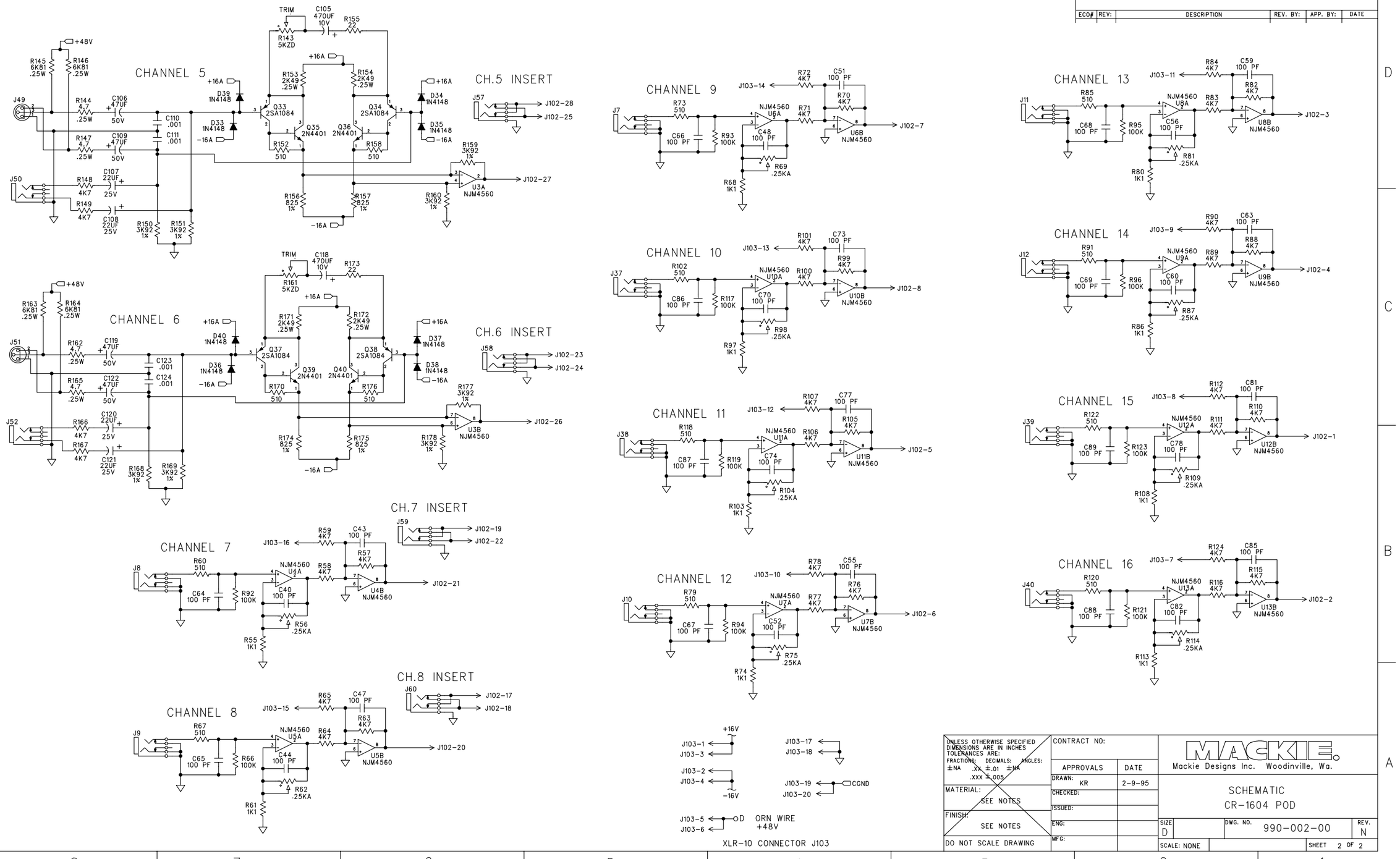

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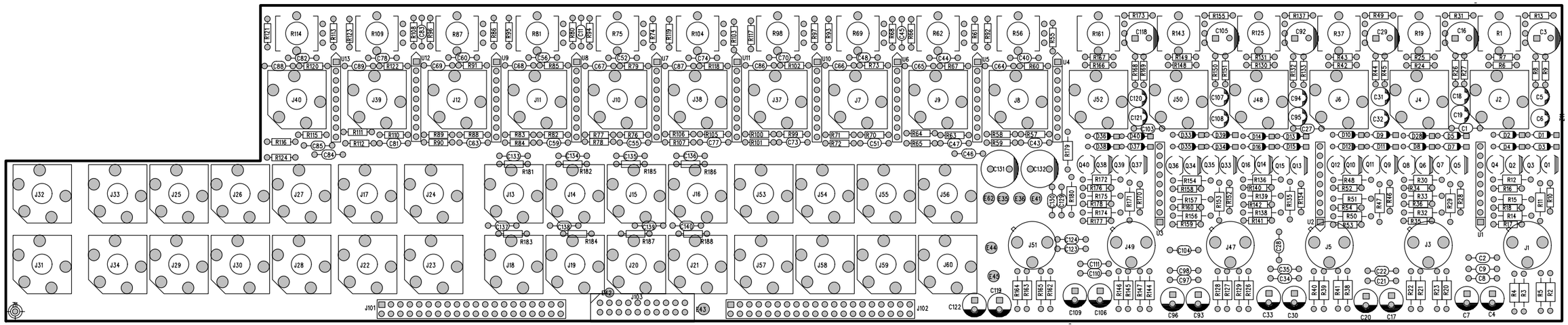

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XLR-10 Installation

❶ First make sure that the CR-1604 is turned off. Flip it upside down with the jacks facing you (there is no need to actually remove the pod) and remove the small connector cover near the pod's center. Save the cover and screws by taping them to the bottom of the mixer.

❷ Remove the pod's rubber feet.

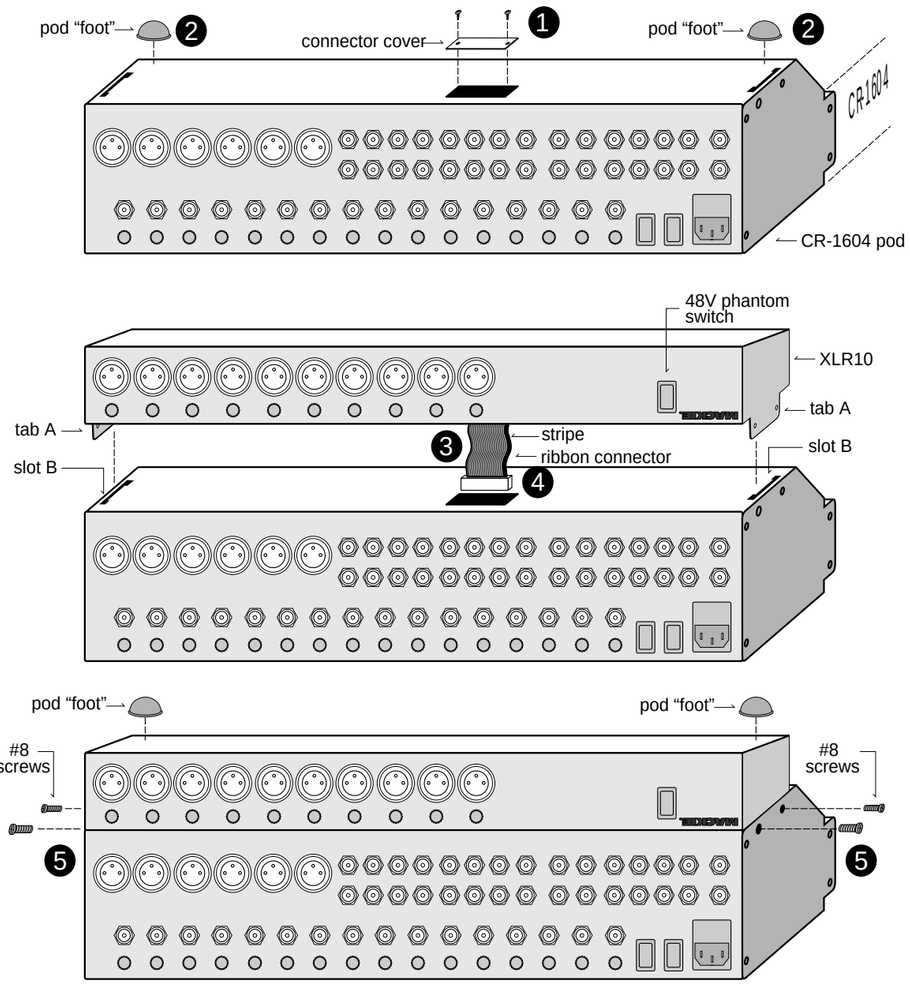
❸ Install the ribbon connector which extends out of the XLR10 by pressing the plug onto the exposed pins. Make sure that the stripe on the ribbon is on the side closest to the XLR 10's phantom switch (the right side in our drawing).

❹ As you lower the XLR10 towards the CR-1604 pod, work the excess ribbon cable back into the XLR10 by wiggling it gently.

❺ Slide the tabs on the sides of the XLR10 into the slots on the top of the CR- 1604 and secure them with the four #8 screws provided. Don't push on the screws while attaching them, since doing so may dislodge the mounted nuts on the inside of the pod.

❻ Install the new pod feet.

Happy mixing!



Operating Instructions

When you combine the CR-1604 with the XLR10 you can use the added mic inputs by themselves or, if you're starved for inputs, you can use both mic and line inputs simultaneously.

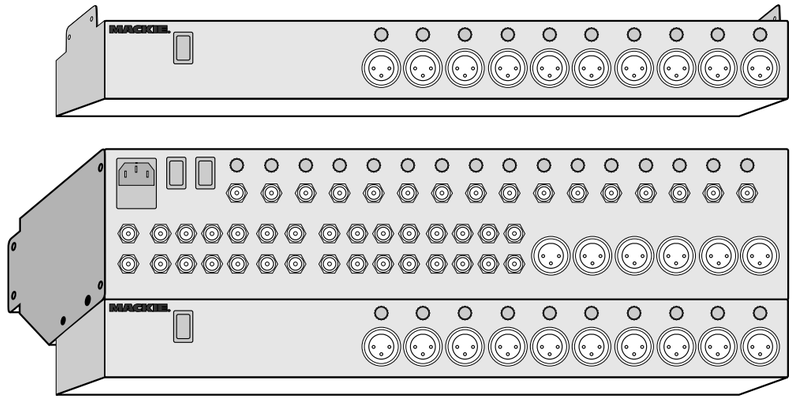
In other words, with the XLR10, you actually get 10 more inputs. On Channels 7 through 16 only, the XLR mic inputs can be used with the existing line inputs. Each has its own sensitivity control.

Set the sensitivity controls as you normally would. Put the channel into SOLO to read its operating level on the main output meter.

1. Adjust the mic sensitivity control first .

2. With the mic placed where it will normally operate in relation to the acoustic source, start at minimum (fully counterclockwise), then turn the gain up until you get a reading of around 0dB on the meter.

3. Finally, adjust the line input sensitivity until you get the desired balance between mic and line signals.



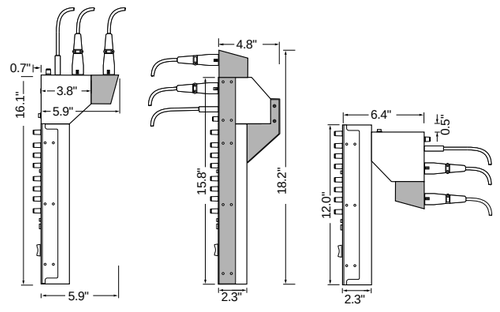
Famous XLR10 Interview Questions

Q. Can the XLR10 be used in all of the three pod variations?

A. Yes, see the drawing below.

Q. Can the XLR10 be used with anything other than the CR-1604?

A. No, it utilizes the internal power supply of the CR-1604 and is not free standing.



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DWG. NO.	SHT	REV:
990-003-00	1	H

ECO#	REV:	DESCRIPTION	REV. BY:	APP. BY:	DATE
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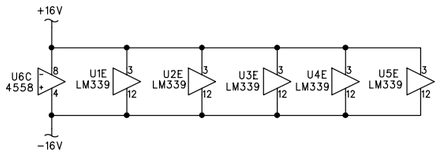
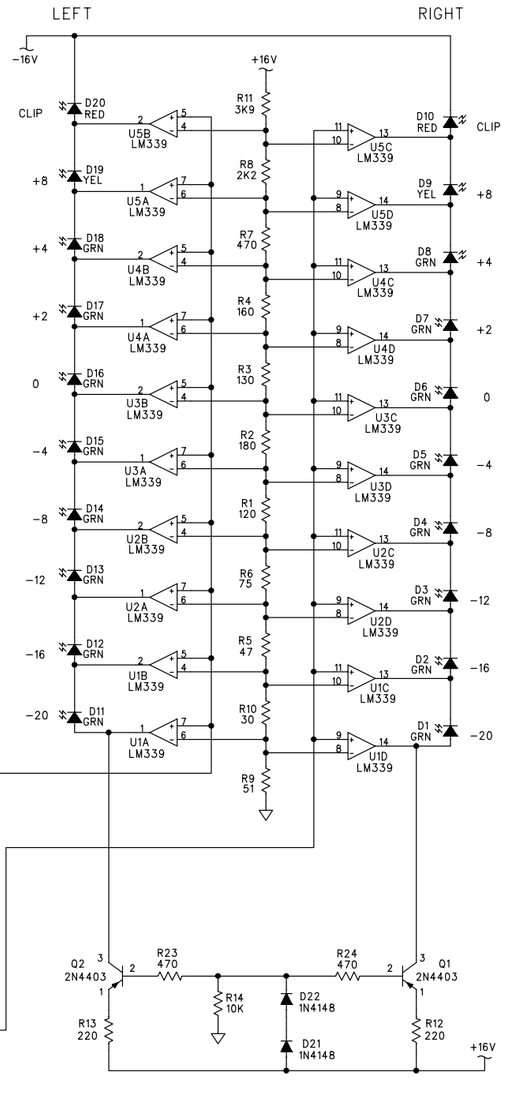
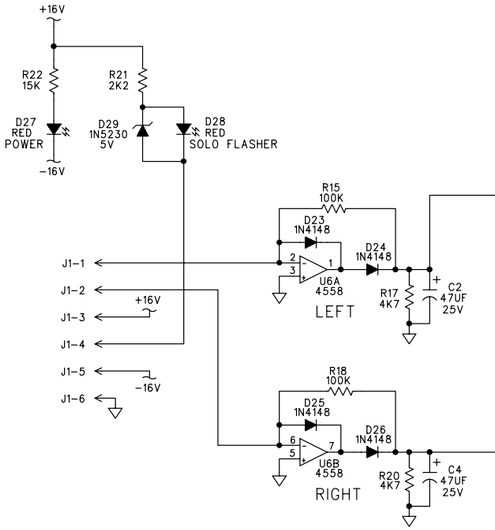
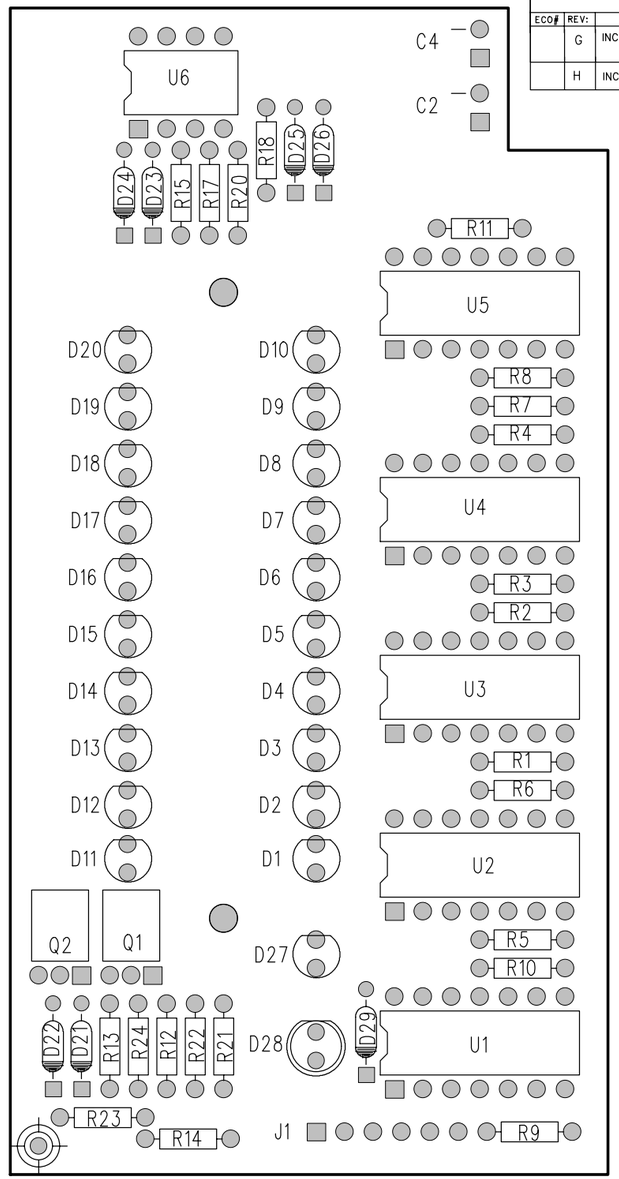
	H	INCORPORATED ECO 542	KR		3-30-95









706-008-00 STANDOFF, SWAGE

706-008-00 STANDOFF, SWAGE

450-003-00 PCB, CR1604 METER

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

MATERIAL: SEE NOTES

FINISH: SEE NOTES

DO NOT SCALE DRAWING

CONTRACT NO:

APPROVALS	DATE
DRAWN: KR	3-30-95
CHECKED:	
ISSUED:	
ENG:	
MFG:	

MACKIE. Mackie Designs Inc. Woodinville, Wa.

SCHEMATIC
CR-1604 METER

SIZE	DWG. NO.	REV.
D	990-003-00	H

SCALE: NONE SHEET 1 OF 1

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DWG. NO.	SHT	REV:
990-004-00	1	L

ECO#	REV:	DESCRIPTION	REV. BY:	APP. BY:	DATE
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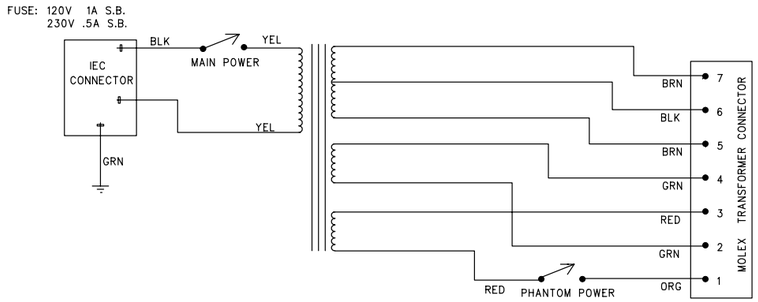
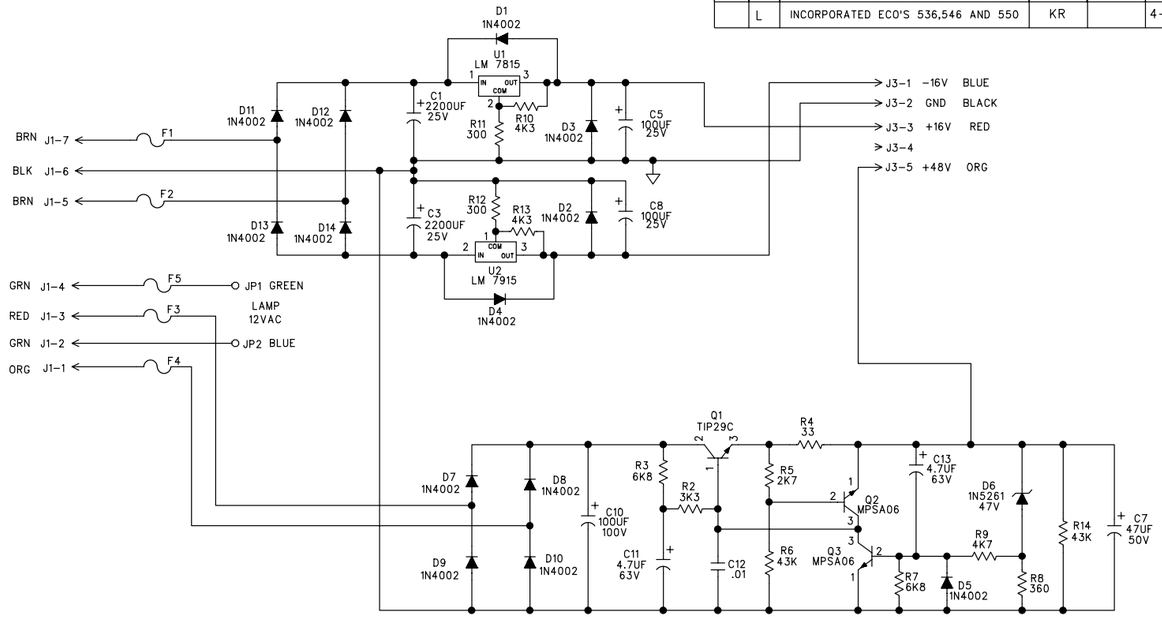
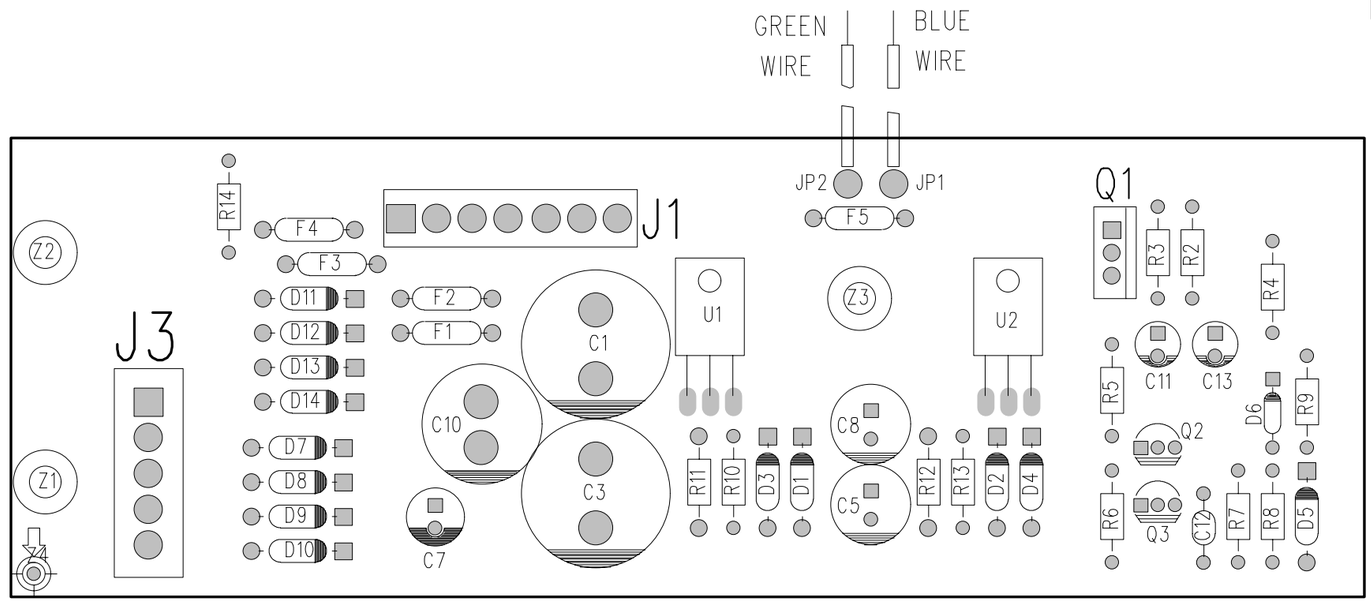
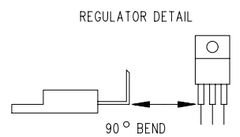
	L	INCORPORATED ECO'S 536,546 AND 550	KR		4-6-95









☐ 450-004-00 PCB, CR1604 POWER SUPPLY
☐ 610-008-00 BLUE WIRE 3.5
☐ 610-006-00 GREEN WIRE 3.0

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: ±NA DECIMALS: .XX ±.01 .XXX ±.005 ANGLES: ±NA	CONTRACT NO:	Mackie Designs Inc. Woodinville, Wa.
	APPROVALS / DATE	SCHEMATIC
MATERIAL: SEE NOTES	DRAWN: KR 4-6-95	CR1604 POWER SUPPLY
FINISH: SEE NOTES	CHECKED:	SIZE D / DWG. NO. 990-004-00 / REV. L
DO NOT SCALE DRAWING	ISSUED: / ENG: / MFG:	SCALE: NONE / SHEET 1 OF 1

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DWG. NO.	SHT	REV:
990-005-00	1	J

ECO#	REV:	DESCRIPTION	REV. BY:	APP. BY:	DATE
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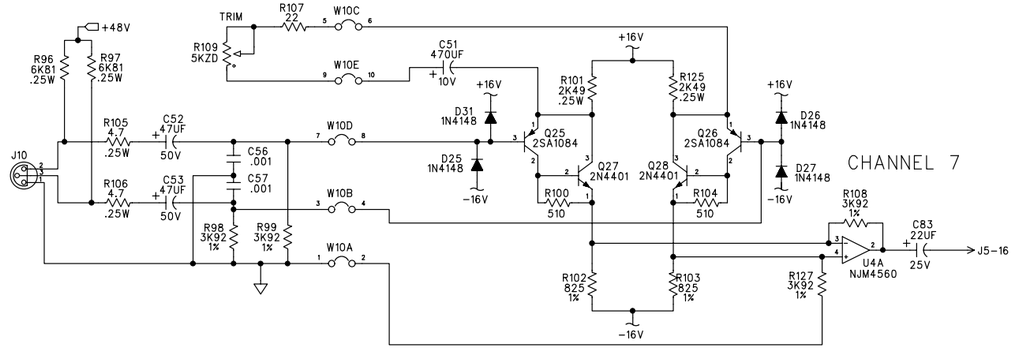
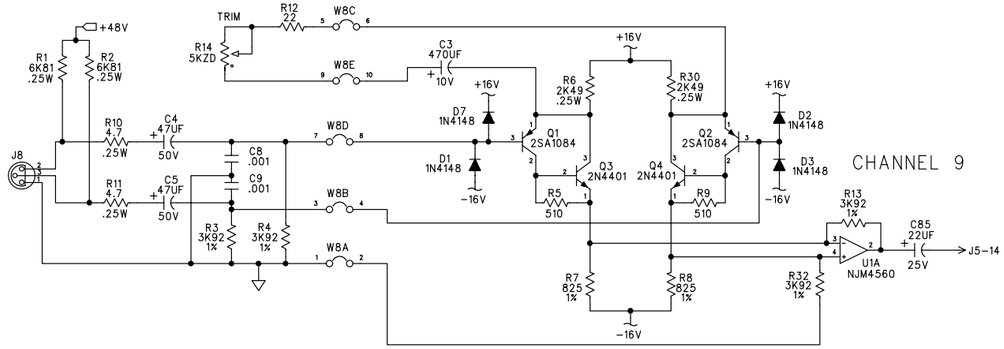
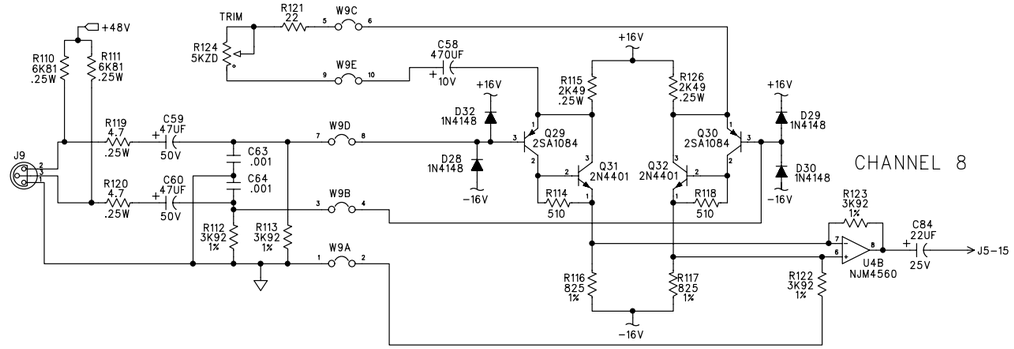
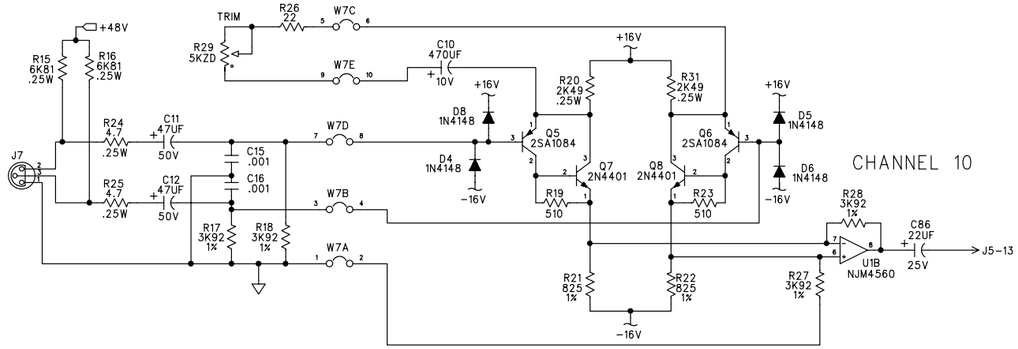
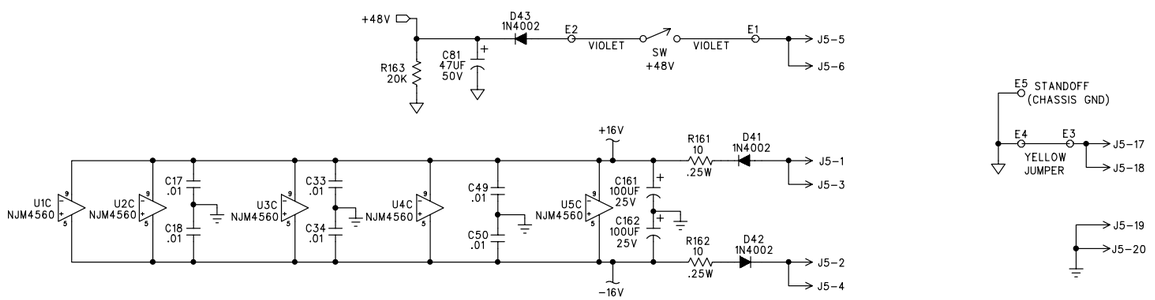
	J	INCORPORATED ECO 427	KR		4-12-95











- ☐ 706-013-00 STANDOFF, XLR10
- ☐ 706-013-00 STANDOFF, XLR10
- ☐ 706-013-00 STANDOFF, XLR10
- ☐ 706-013-00 STANDOFF, XLR10
- ☐ 706-013-00 STANDOFF, XLR10
- ☐ 706-013-00 STANDOFF, XLR10
- ☐ 610-007-00 WIRE, 6.5" VIOLET
- ☐ 610-007-00 WIRE, 6.5" VIOLET
- ☐ 610-005-00 WIRE, 2.5" YELLOW
- ☐ 450-005-00 PCB, XLR10

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

CONTRACT NO:

APPROVALS	DATE
DRAWN: KR	1-10-95
CHECKED:	
ISSUED:	
ENG:	
MFG:	

MACKIE. Mackie Designs Inc. Woodinville, Wa.

SCHEMATIC
XLR-10

SIZE D | DWG. NO. 990-005-00 | REV. J
SCALE: NONE | SHEET 1 OF 2

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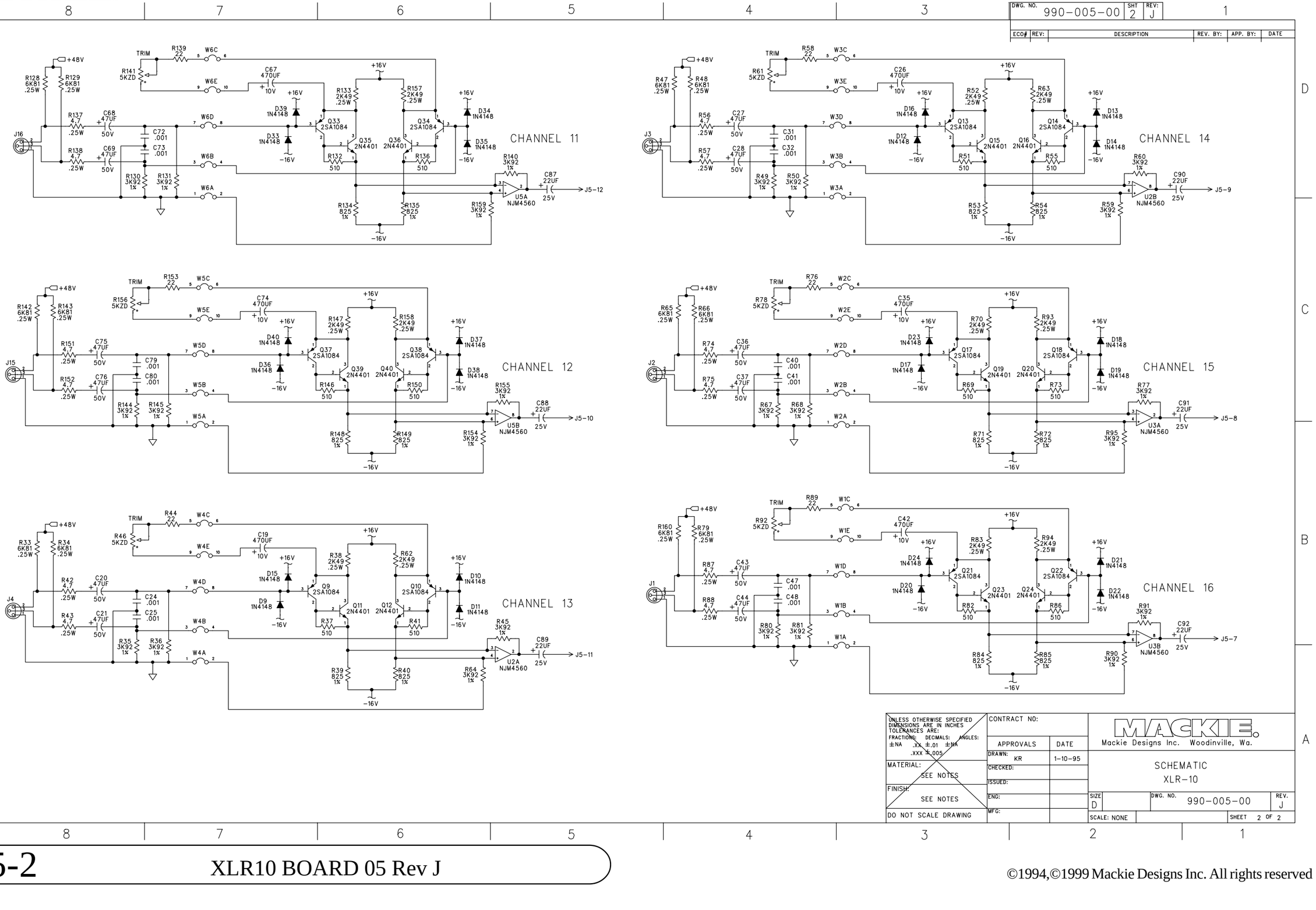

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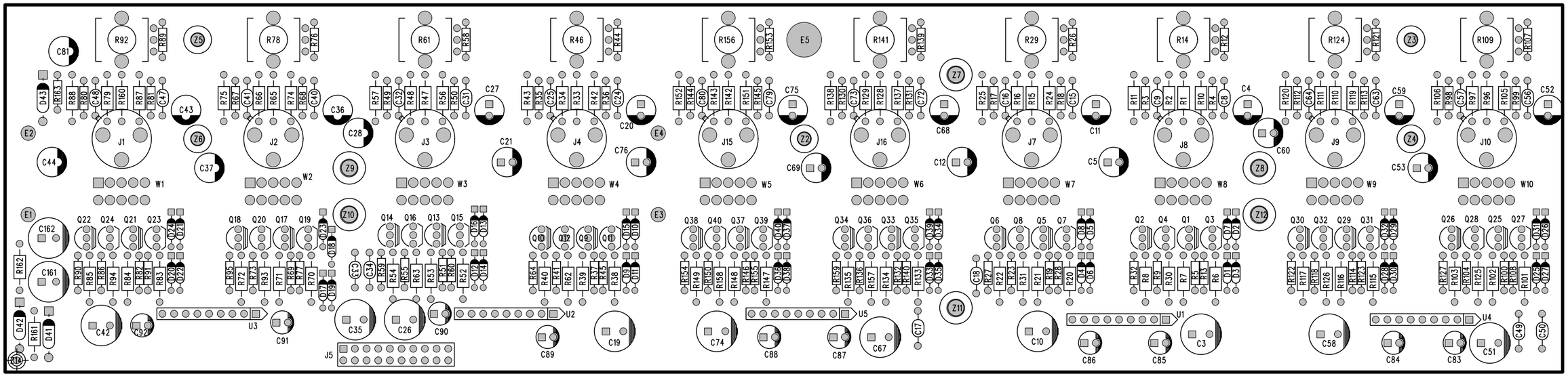

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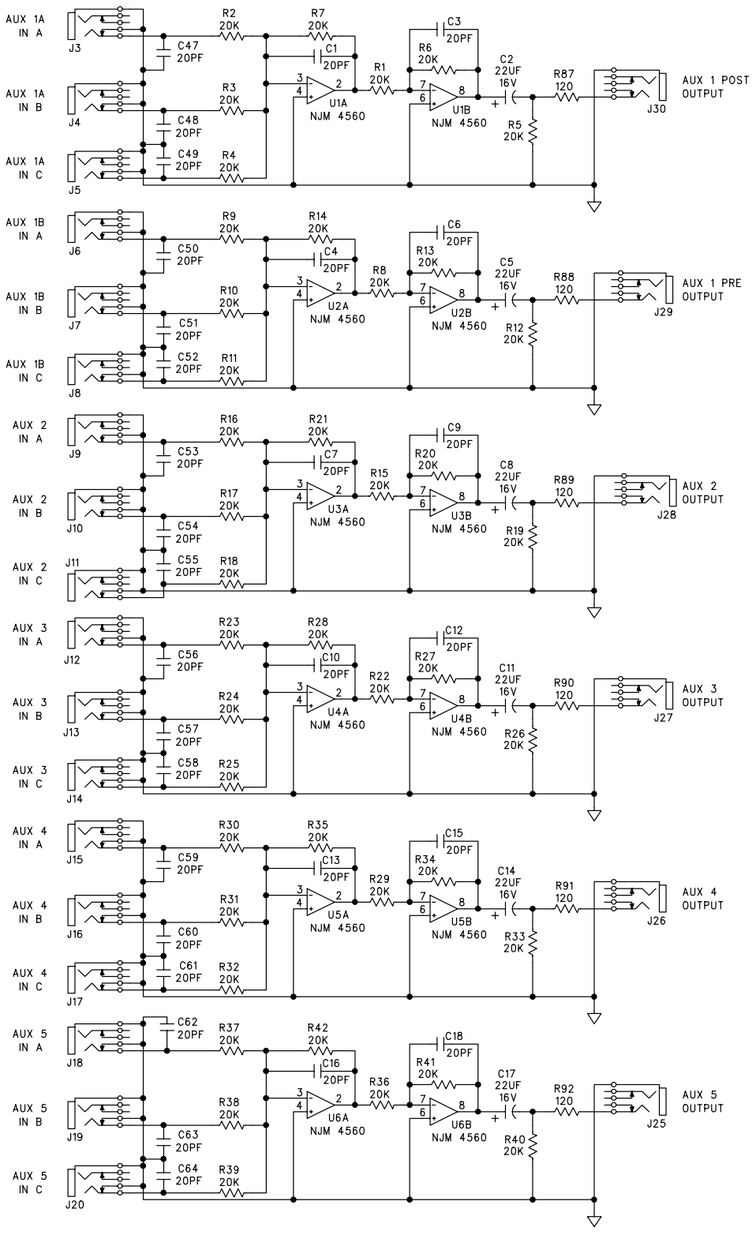

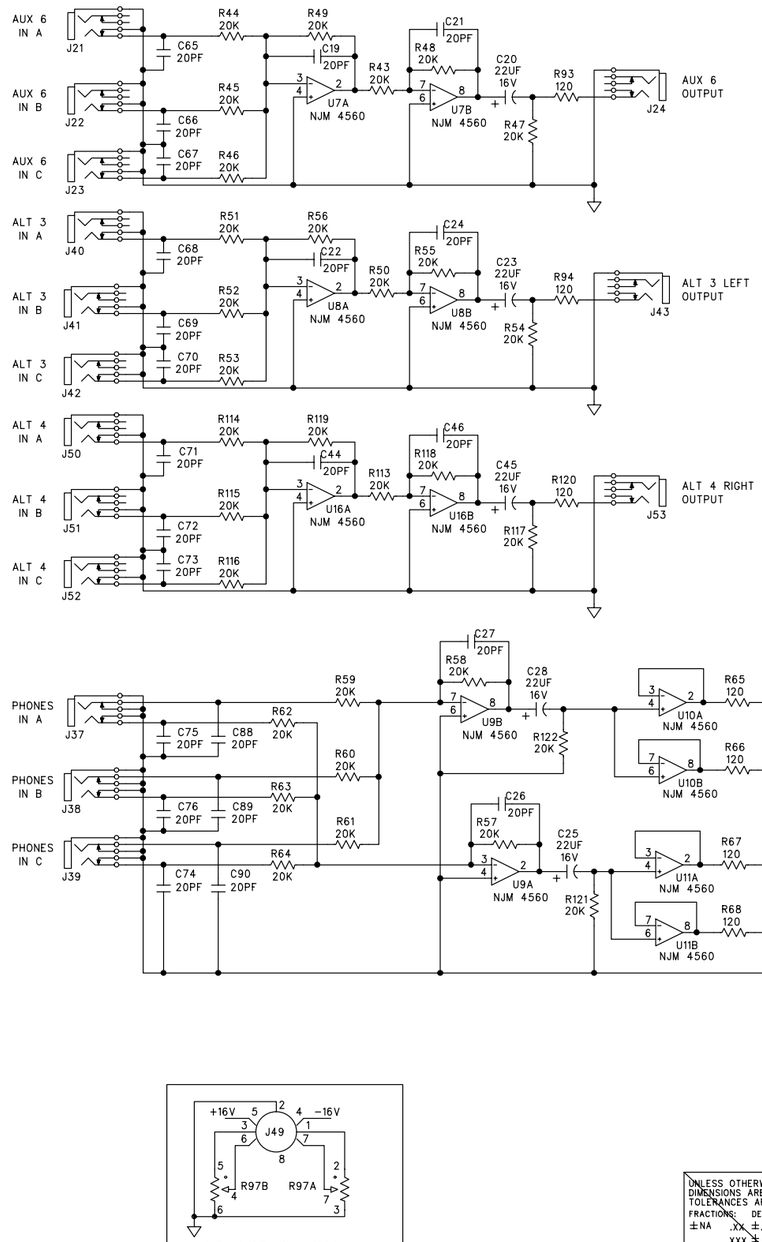

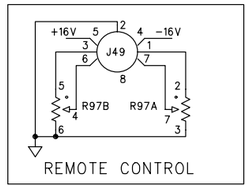

DWG. NO.	SHT	REV:
990-006-00	1	G

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NA	F	CONVERTED TO PADS	TRH		7-22-94
NA	G	REVISED HOLE DIA	TRH		8-22-94

450-006-00 PCB, MIXER-MIXER
706-004-00 SPACER, PLASTIC
760-002-00 BUTTON, SWITCH

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

CONTRACT NO:

APPROVALS	DATE
DRAWN: trh	7-18-94
CHECKED:	
ISSUED:	
ENG:	
MFG:	

Mackie Designs Inc. Woodinville, Wa.

SCHEMATIC
MIXER-MIXER

SIZE D | DWG. NO. 990-006-00 | REV. G
SCALE: NONE | SHEET 1 OF 2

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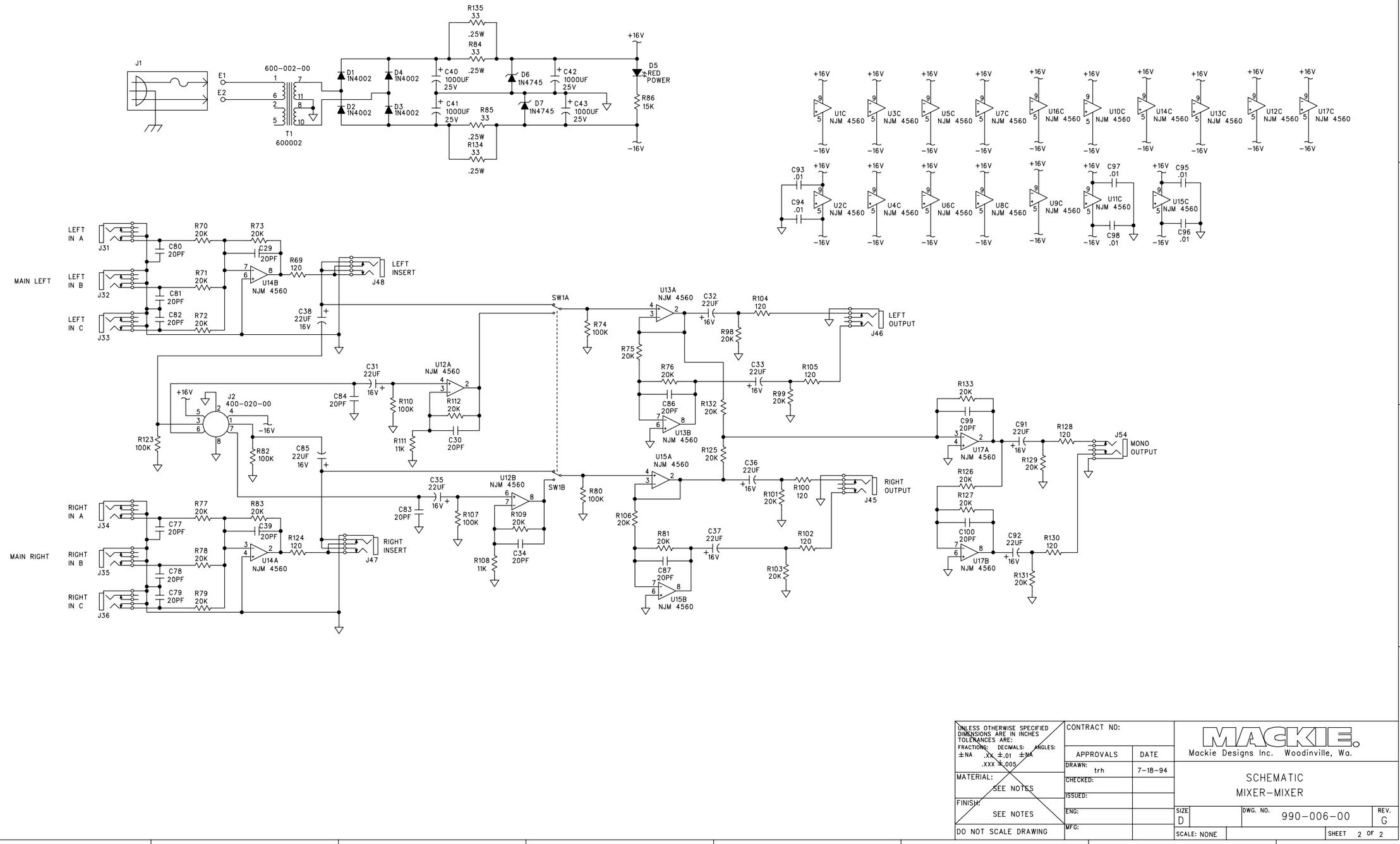
DWG. NO.	SHT	REV:
990-006-00	2	G

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



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: ±NA DECIMALS: .XX ±.01 ±NA .XXX ±.005 ANGLES: ±NA	CONTRACT NO:	MACKIE. Mackie Designs Inc. Woodinville, Wa.
MATERIAL: SEE NOTES	APPROVALS / DATE	SCHEMATIC MIXER-MIXER
FINISH: SEE NOTES	DRAWN: trh 7-18-94	SIZE D · DWG. NO. 990-006-00 · REV. G
DO NOT SCALE DRAWING	CHECKED: · ISSUED: · ENG: · MFG:	SCALE: NONE · SHEET 2 OF 2

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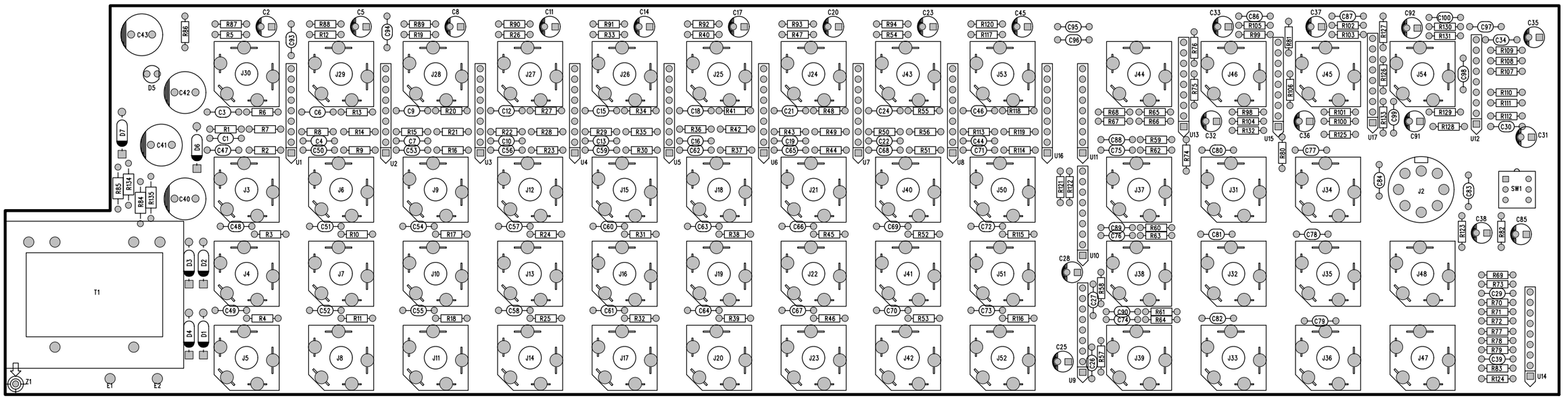
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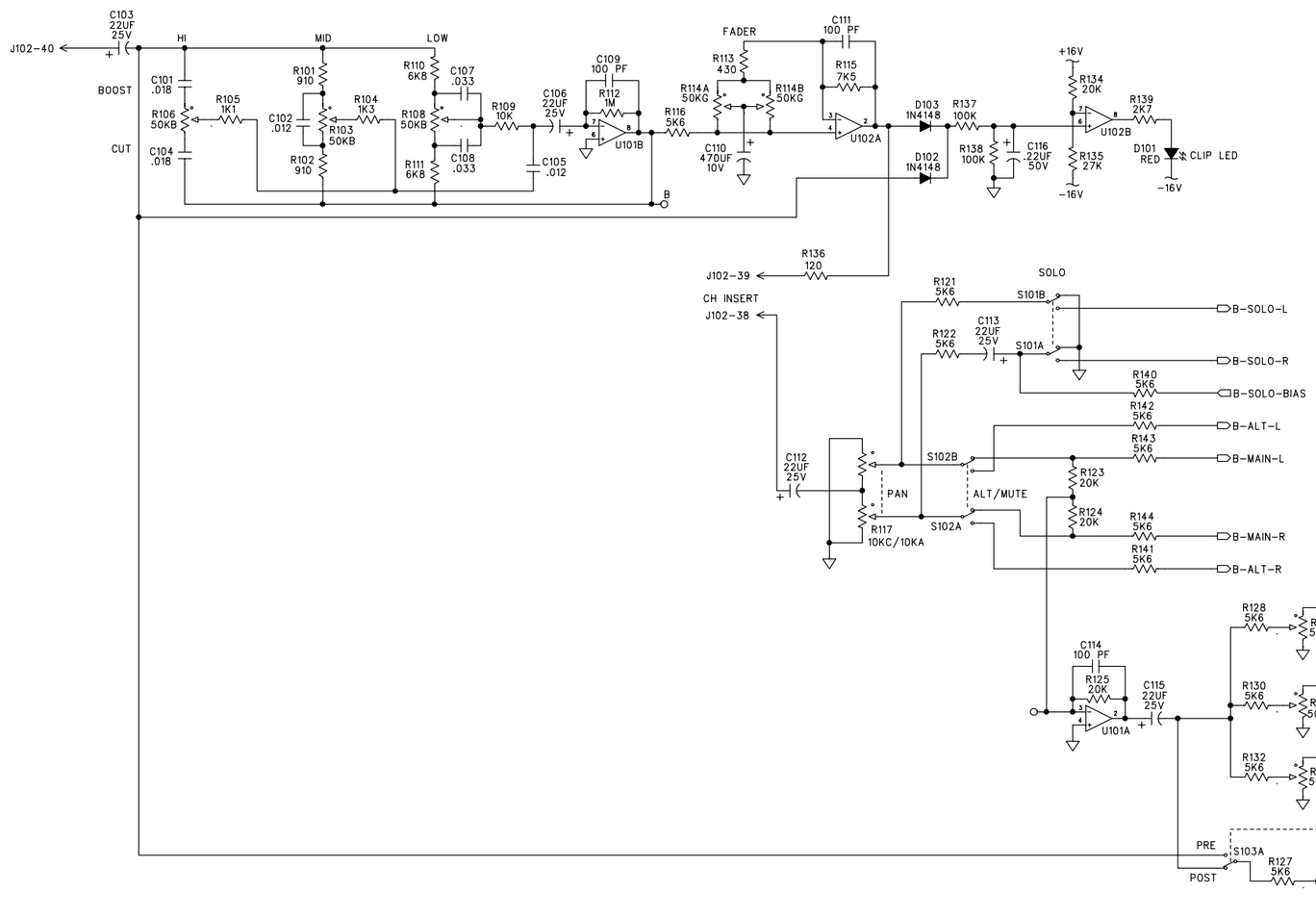
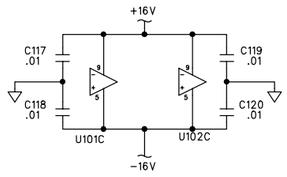
DWG. NO.	SHT	REV:
990-001-00	1	K

ECO#	REV:	DESCRIPTION	REV. BY:	APP. BY:	DATE
	J	INCORPORTATED ECO'S 307,368,400,401, 427,429,486,546 AND 547	KR		2-17-95
	K	INCORPORATED MISC. PCB REFINEMENTS	KR		4-26-95





CHANNEL 1

(CHANNELS 2-8 ARE SIMILAR)

J102-9
J102-10
J102-11
J102-12
J102-13
J102-14
J102-15
J102-16

706-009-00 LED SPACER .440
760-002-00 BUTTON SW 9X9 MM
760-003-00 BUTTON SW 9X5 MM
760-003-00 BUTTON SW 9X5 MM
760-003-00 BUTTON SW 9X5 MM

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

CONTRACT NO:

APPROVALS	DATE
DRAWN: KR	2-17-95
CHECKED:	
ISSUED:	
ENG:	
MFG:	

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SCHEMATIC
CR-1604 MAIN

SIZE	DWG. NO.	REV.
D	990-001-00	K

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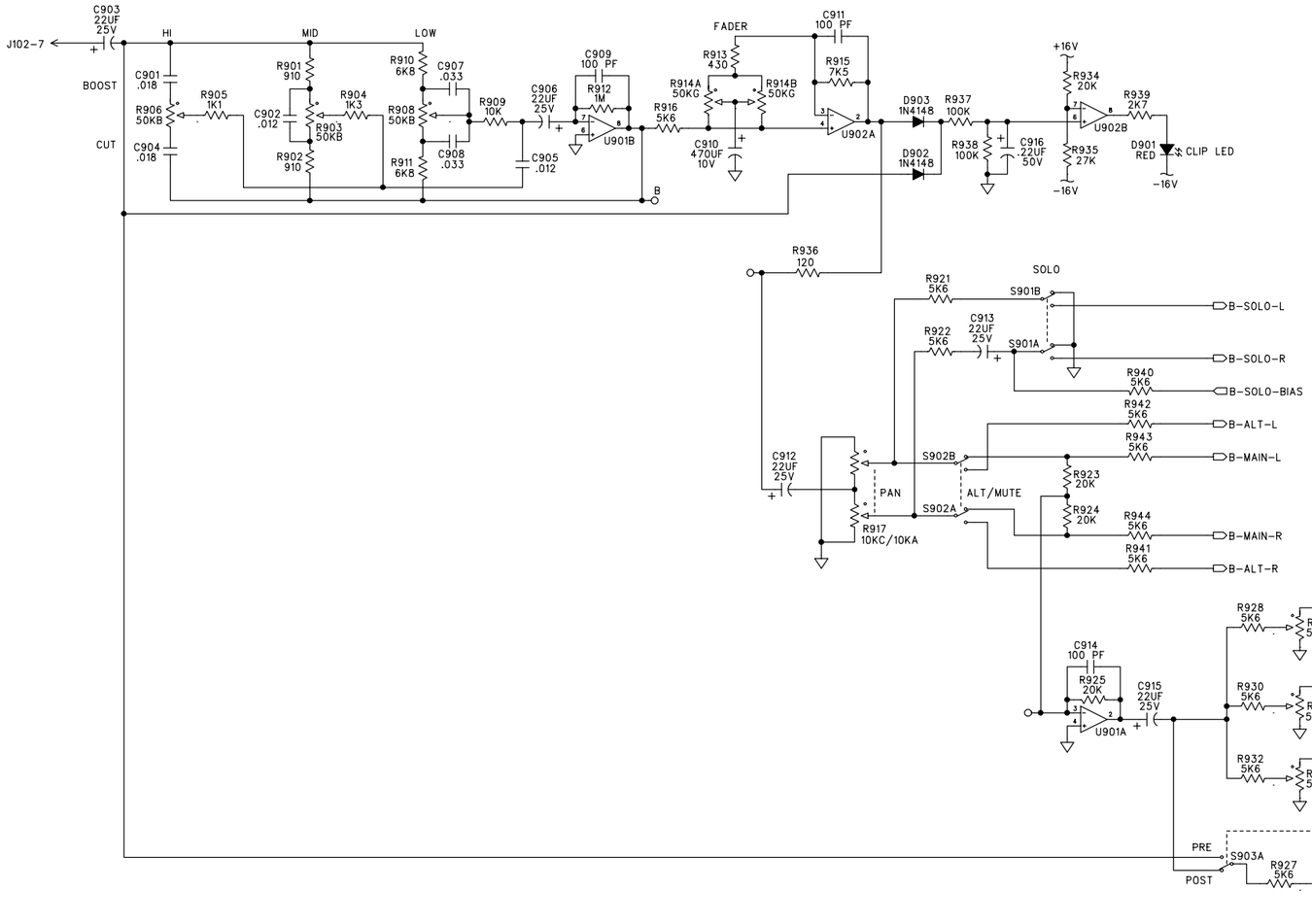
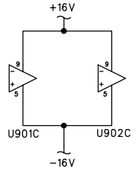
BACK

DWG. NO.	SHT	REV:
990-001-00	9	K

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





CHANNEL 9

(CHANNELS 10-16 ARE SIMILAR)

706-009-00 LED SPACER .440
760-002-00 BUTTON SW 9X9 MM
760-003-00 BUTTON SW 9X5 MM
760-003-00 BUTTON SW 9X5 MM
760-003-00 BUTTON SW 9X5 MM

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

CONTRACT NO:

APPROVALS	DATE
DRAWN: KR	2-17-95
CHECKED:	
ISSUED:	
ENG:	
MFG:	

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SCHEMATIC
CR-1604 MAIN

SIZE	DWG. NO.	REV.
D	990-001-00	K

SCALE: NONE SHEET 9 OF 17

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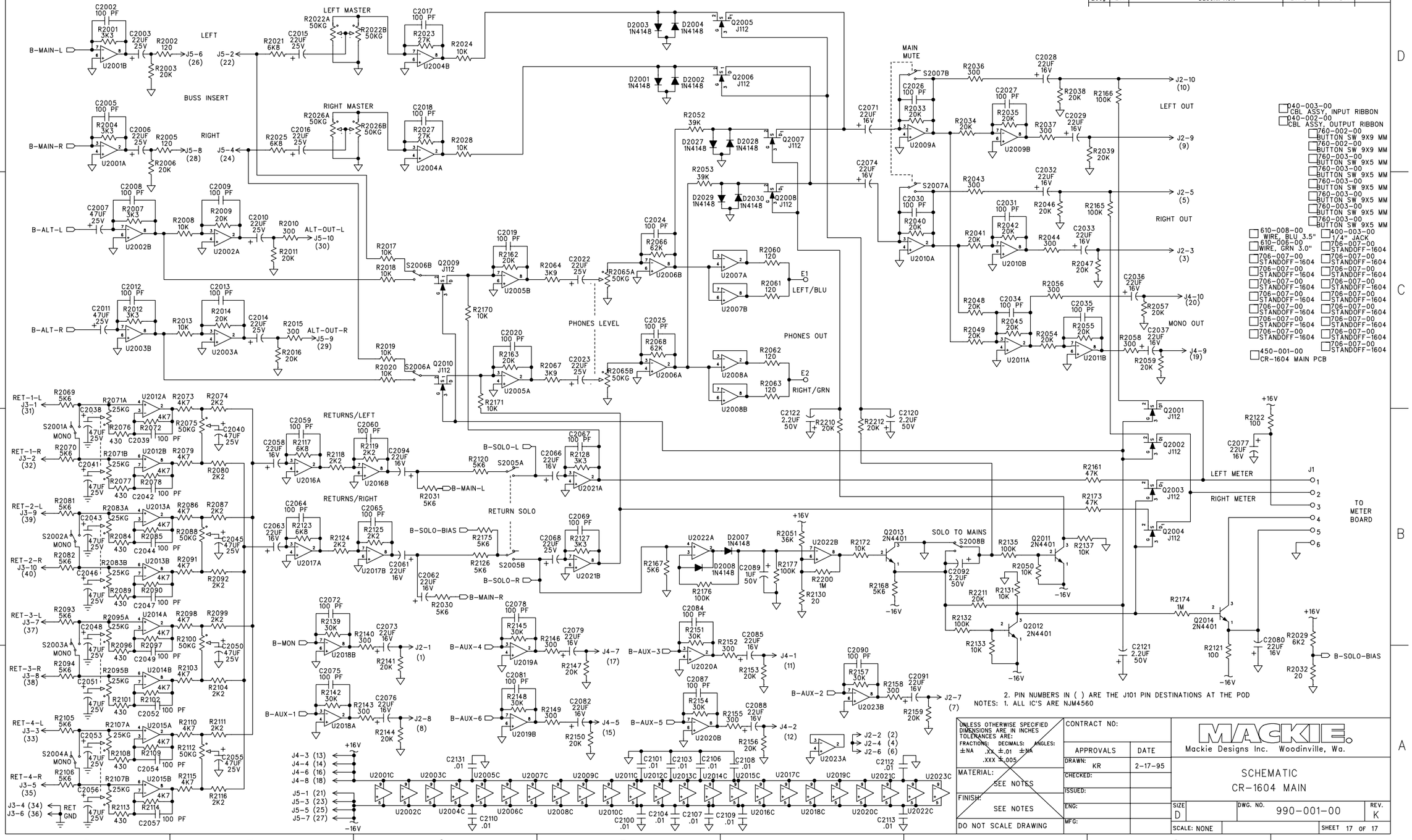
DWG. NO.	SHT	REV:
990-001-00	17	K

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



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: ±NA DECIMALS: .XX ±.01 ANGLES: ±NA .XXX ±.005	CONTRACT NO:	MACKIE. Mackie Designs Inc. Woodinville, Wa.	
	APPROVALS / DATE	SCHEMATIC CR-1604 MAIN	
MATERIAL: SEE NOTES	DRAWN: KR 2-17-95	SIZE D	DWG. NO. 990-001-00 REV. K
FINISH: SEE NOTES	CHECKED:	SCALE: NONE	SHEET 17 OF 17
DO NOT SCALE DRAWING	ISSUED: ENG: MFG:		

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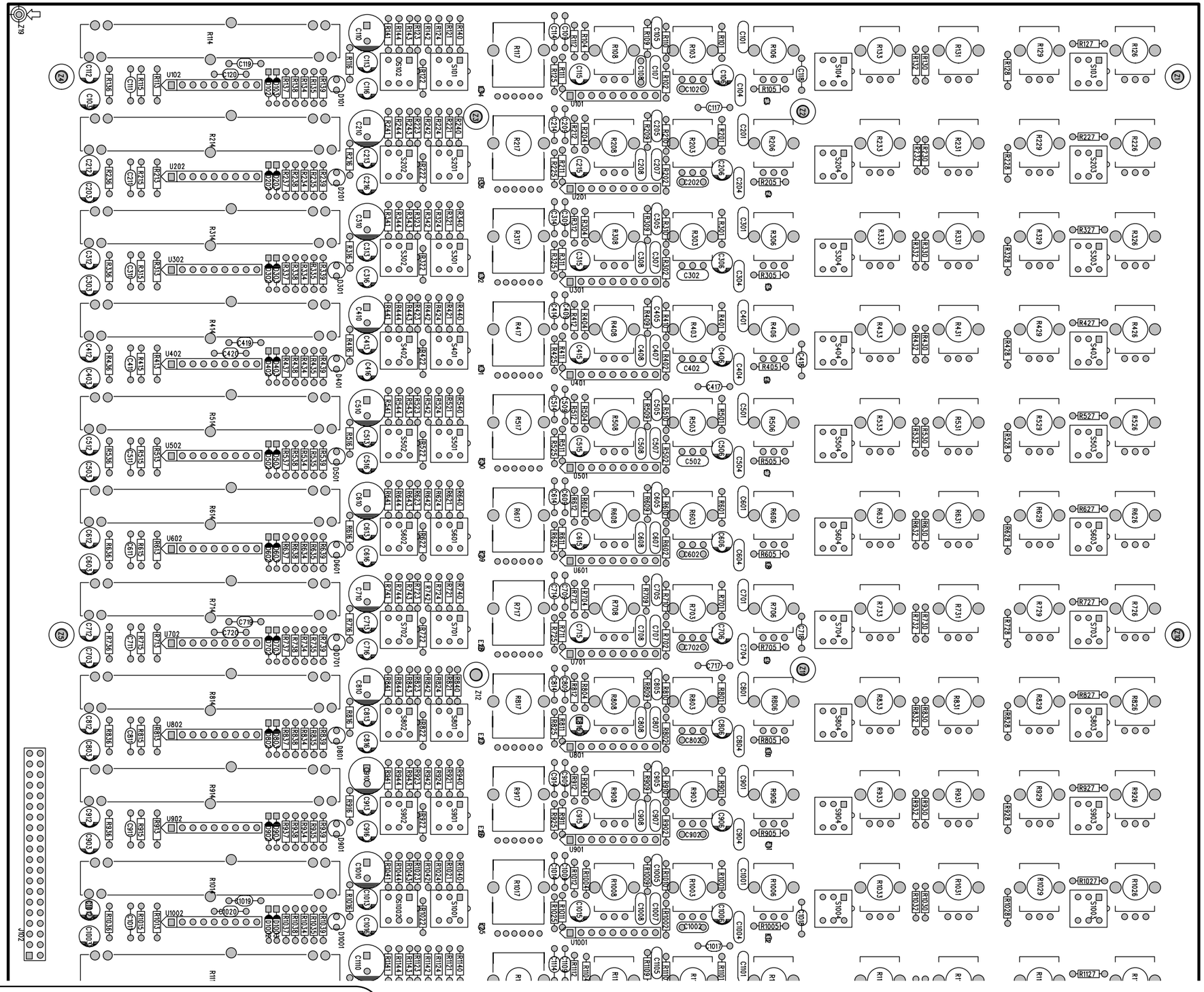

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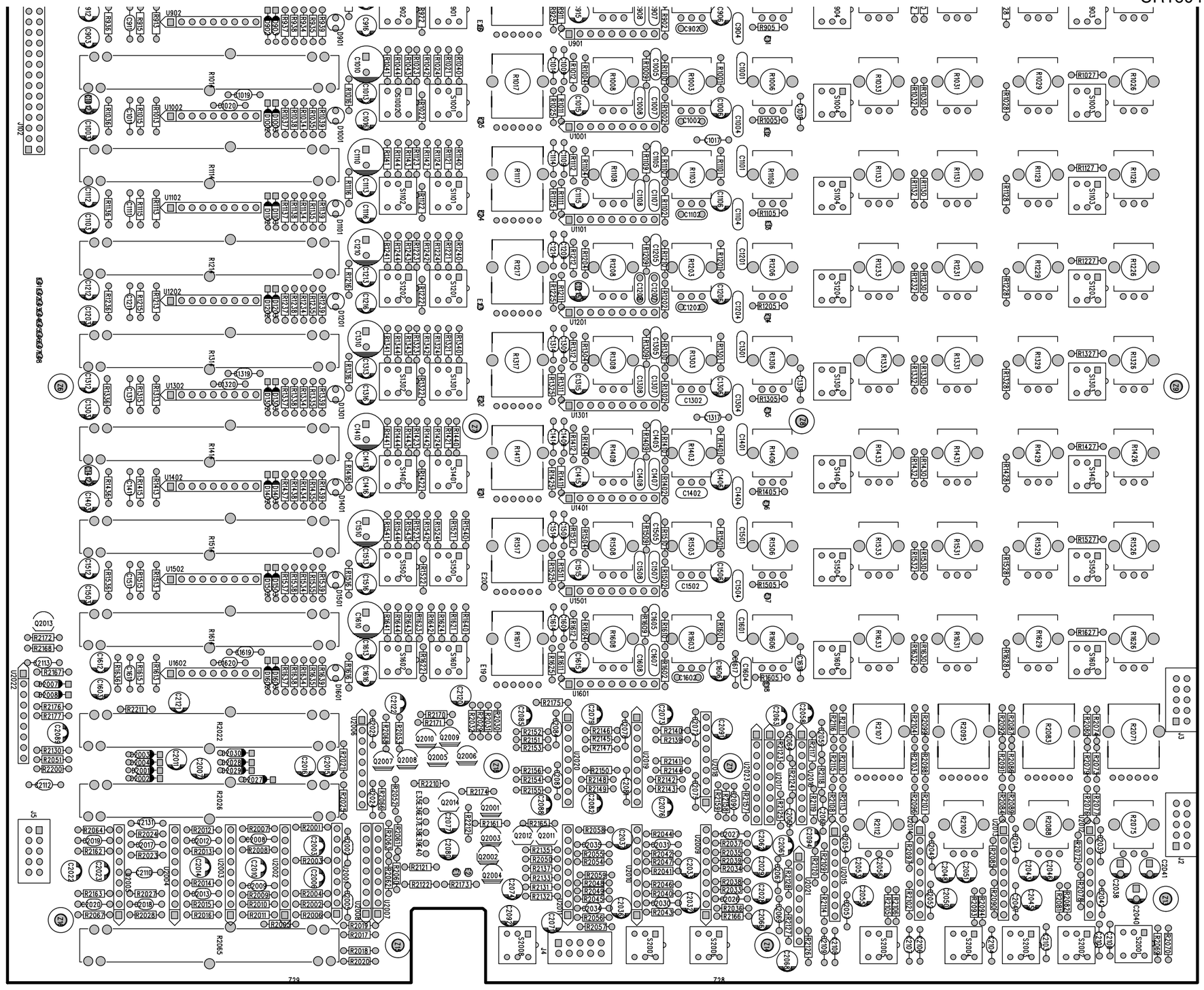

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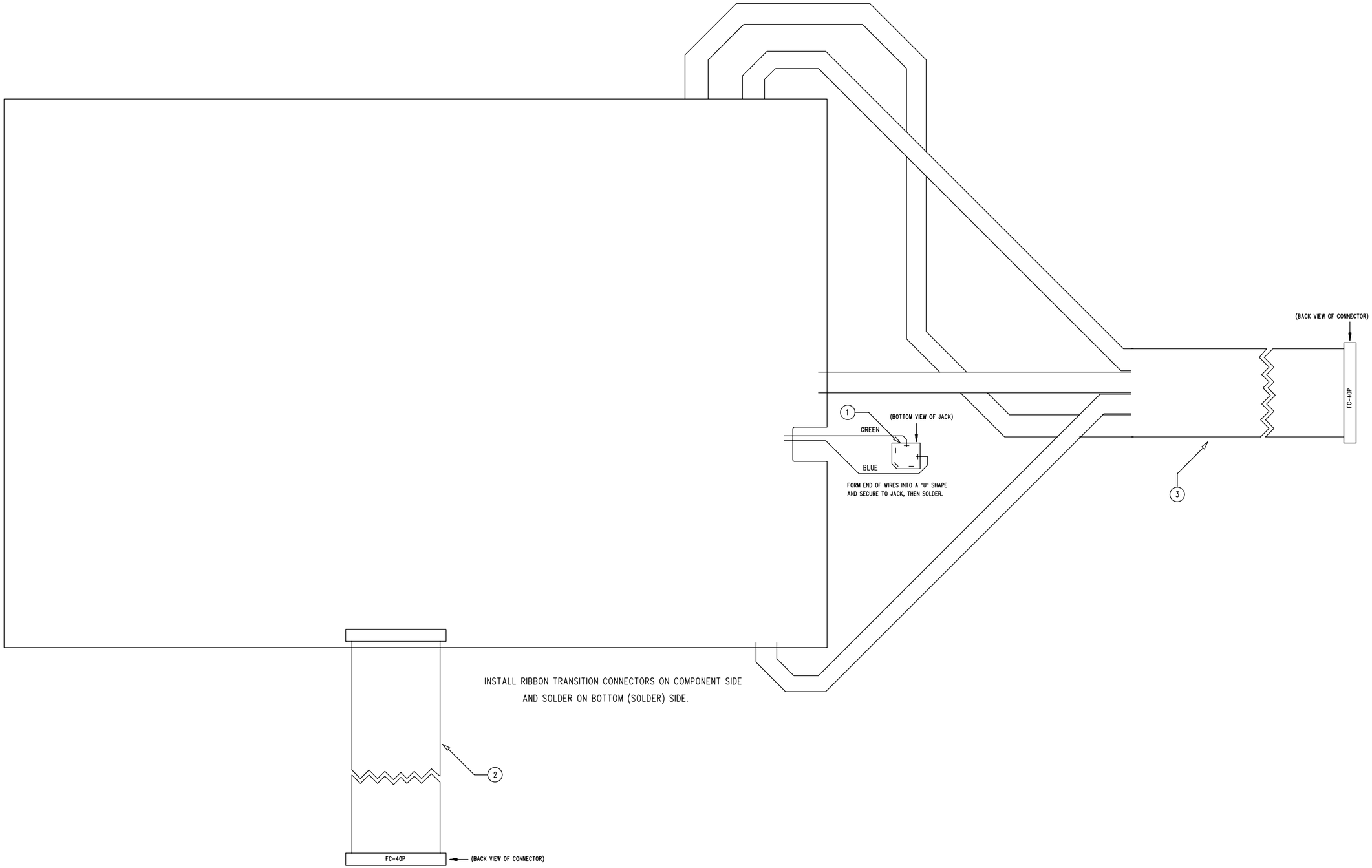

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