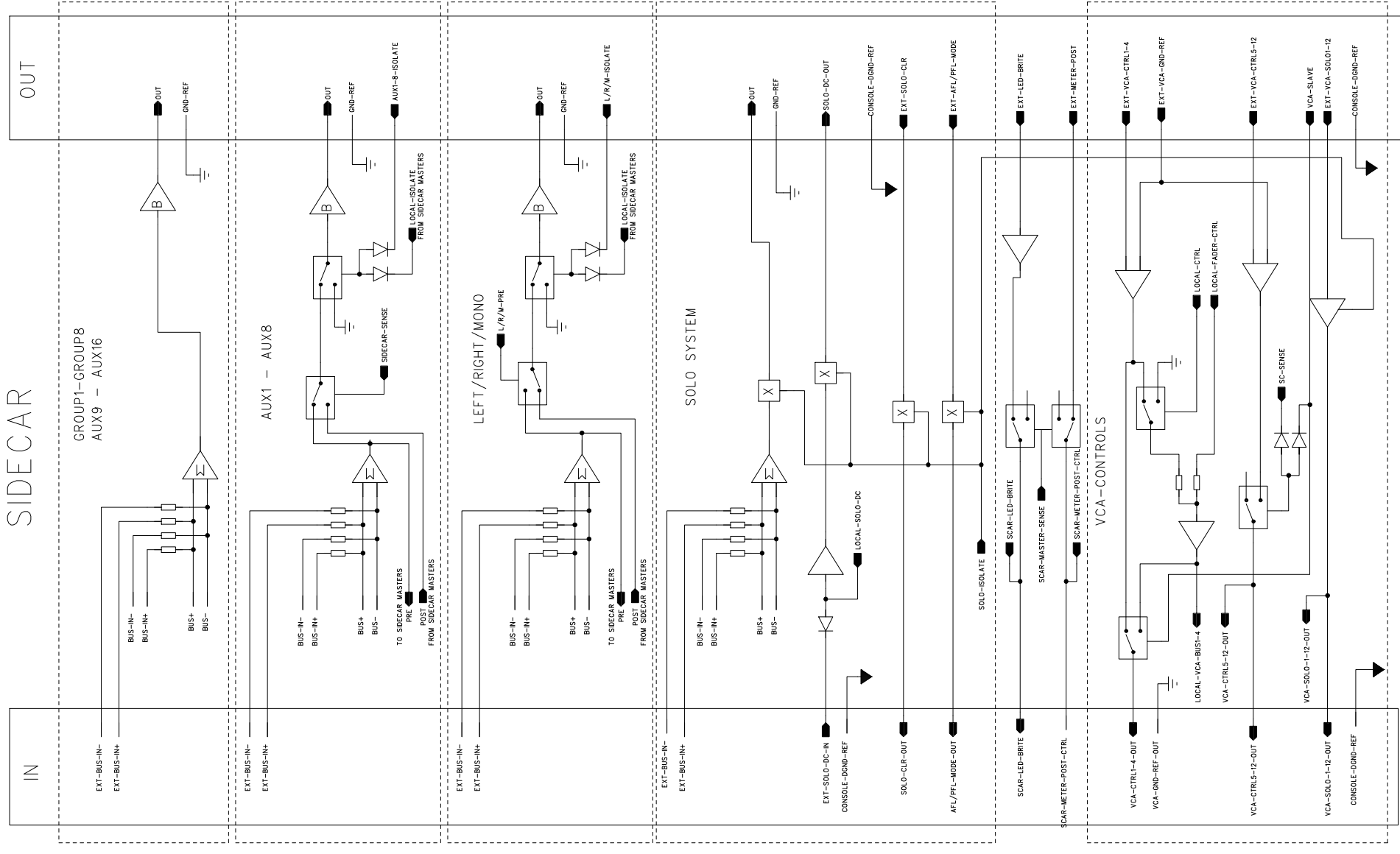
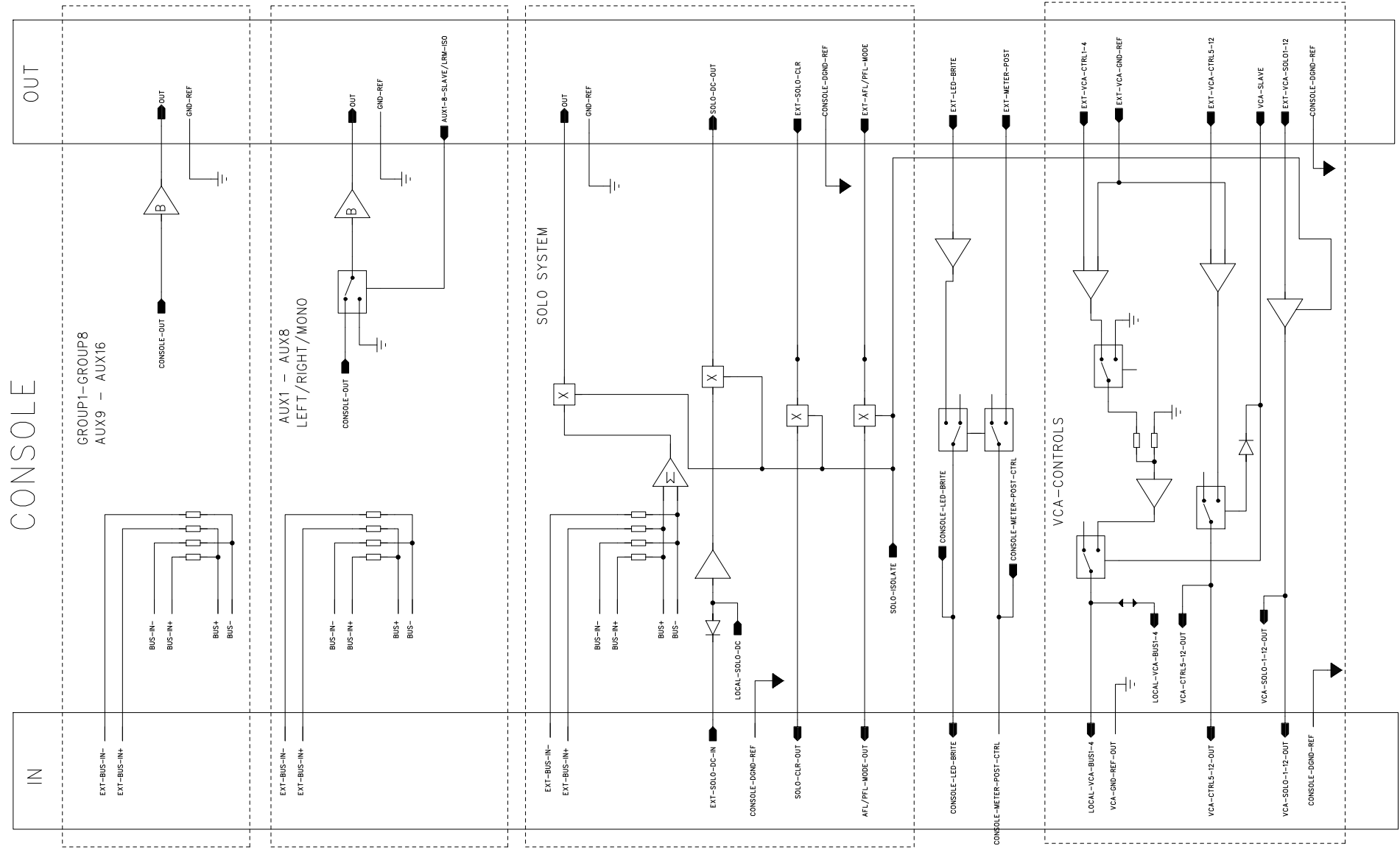


REVISION RECORD	
LTR	DATE



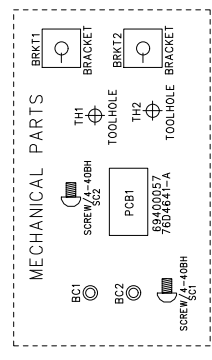
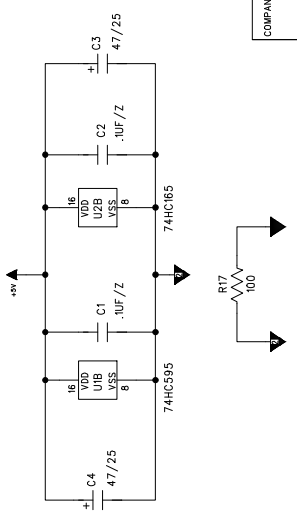
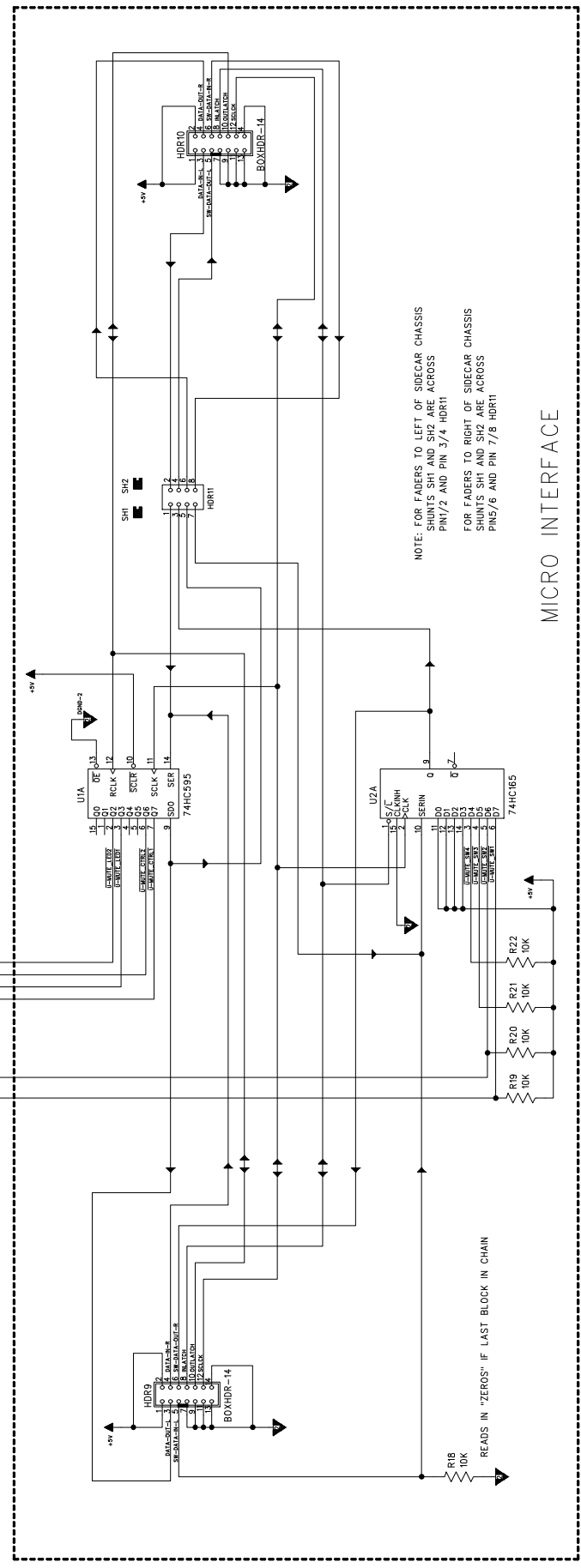
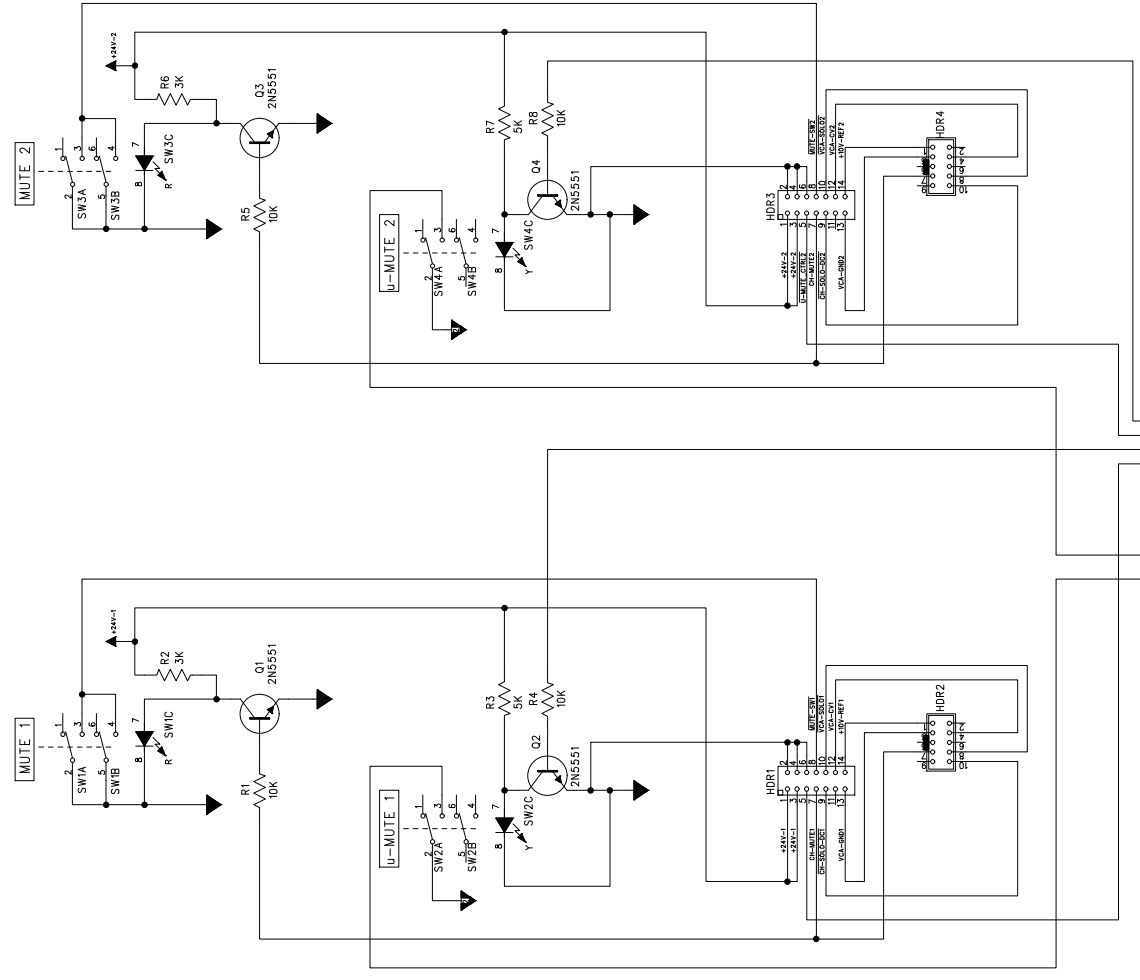
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CHECKED:	DATED:
QUALITY CONTROL:	DATED:
RELEASED:	DATED:

CREST AUDIO

TITLE: V12 EXPANSION SYSTEM BLOCK DIAGRAM

CODE: SIZE: DRAWING NO: REV: SCALE: 1 OF 1

REVISION RECORD	
LTR	DATE



COMPANY: **CRESTAUDIO**

TITLE: **V12 TWO INPUT FADER MUTE PCB**

ORG DRAWN: TAZ

CHECKED: TAZ

CUR REV DRAWN: TAZ

RELEASED: TAZ

DATED: 10/99

DATE: TAZ

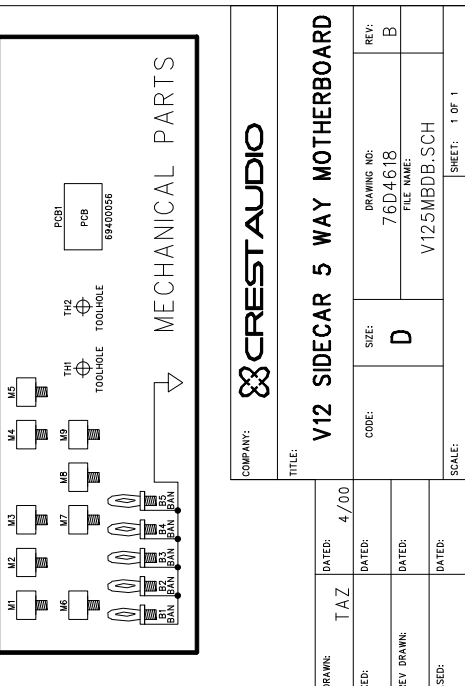
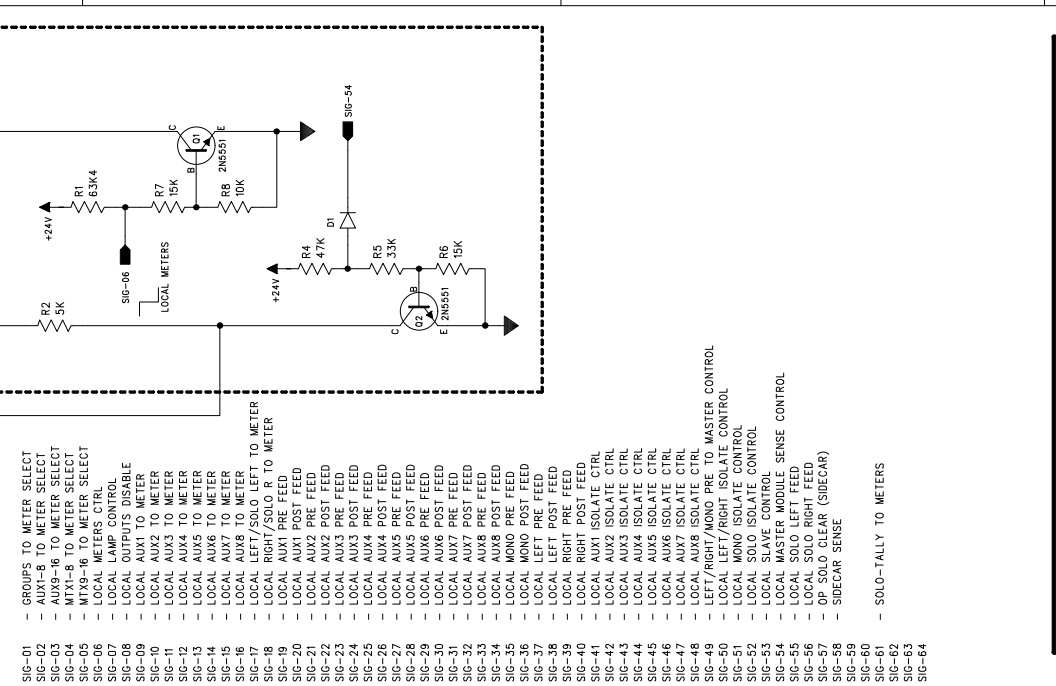
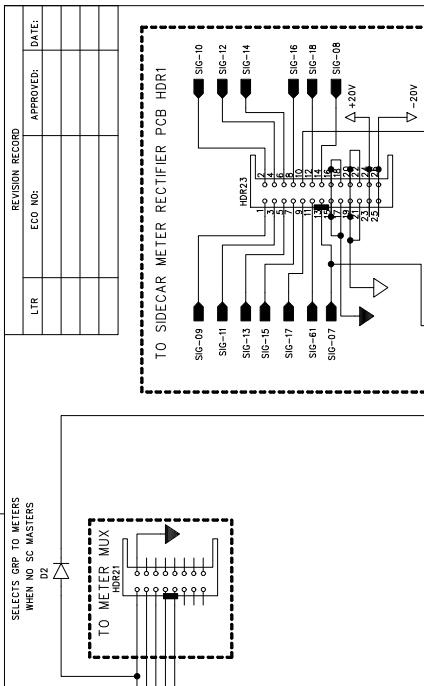
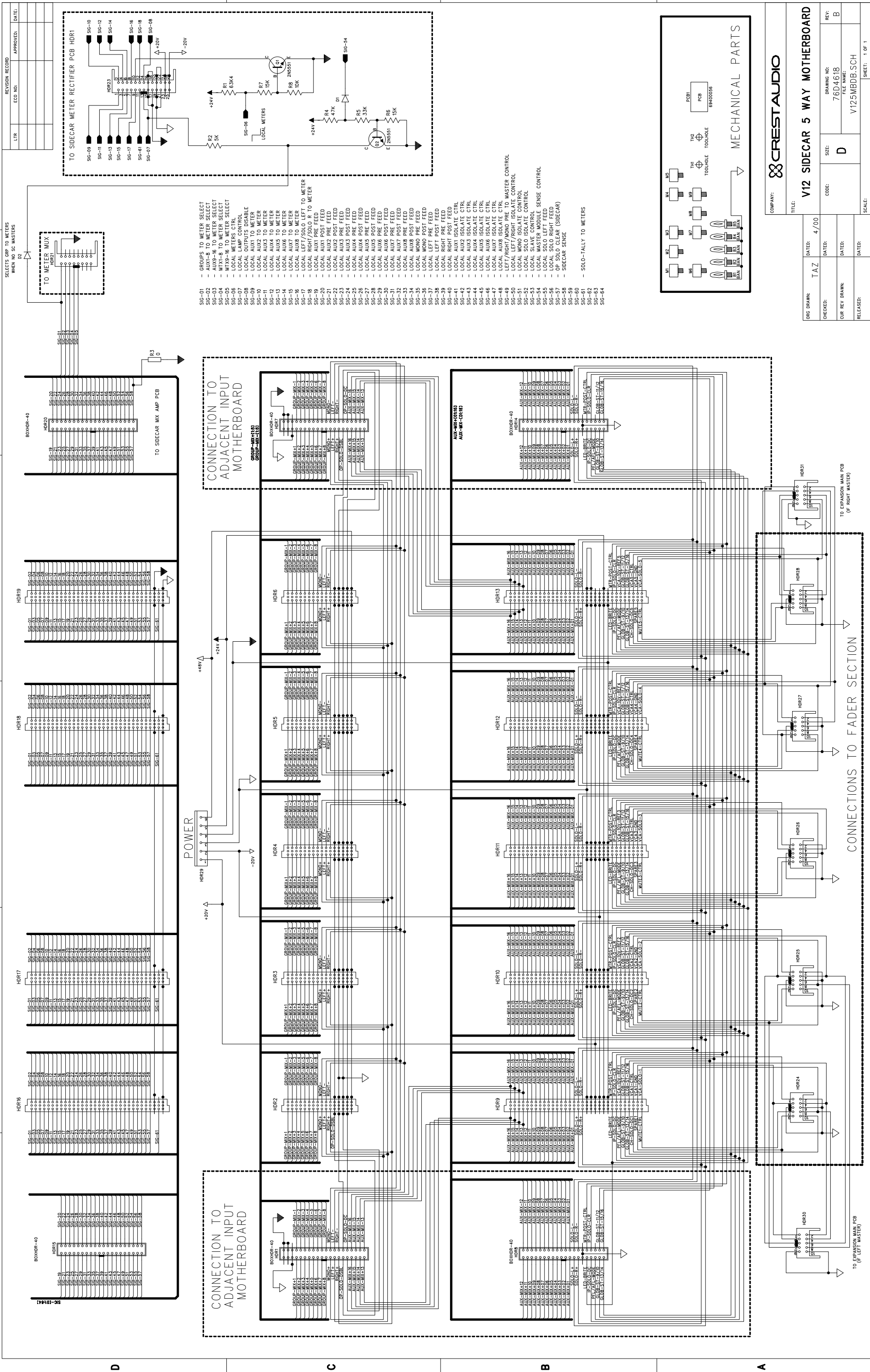
DATE: TAZ

DATE: TAZ

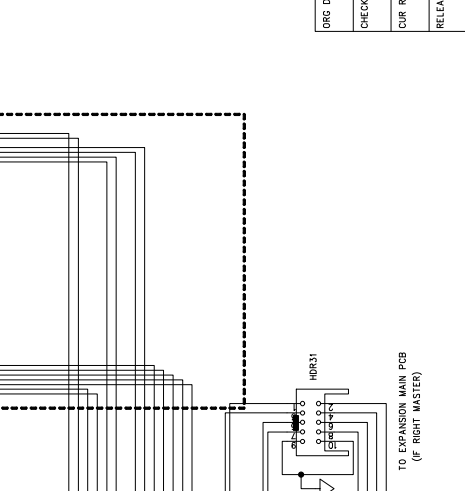
DATE: TAZ

SCALE: 1 OF 1

MICRO INTERFACE



- SIG-01 - GROUPS TO METER SELECT
- SIG-02 - AUX1-R TO METER SELECT
- SIG-03 - AUX9-R TO METER SELECT
- SIG-04 - MIX1-R TO METER SELECT
- SIG-05 - MIX9-R TO METER SELECT
- SIG-06 - LOCAL METERS CTRL
- SIG-07 - LOCAL LAMP CONTROL
- SIG-08 - LOCAL AUX1 TO METER
- SIG-09 - LOCAL AUX2 TO METER
- SIG-10 - LOCAL AUX3 TO METER
- SIG-11 - LOCAL AUX4 TO METER
- SIG-12 - LOCAL AUX5 TO METER
- SIG-13 - LOCAL AUX6 TO METER
- SIG-14 - LOCAL AUX7 TO METER
- SIG-15 - LOCAL AUX8 TO METER
- SIG-16 - LOCAL LEFT/SOLO LEFT TO METER
- SIG-17 - LOCAL RIGHT/SOLO R TO METER
- SIG-18 - LOCAL AUX1 POST FEED
- SIG-19 - LOCAL AUX2 POST FEED
- SIG-20 - LOCAL AUX3 POST FEED
- SIG-21 - LOCAL AUX4 POST FEED
- SIG-22 - LOCAL AUX5 POST FEED
- SIG-23 - LOCAL AUX6 POST FEED
- SIG-24 - LOCAL AUX7 POST FEED
- SIG-25 - LOCAL AUX8 POST FEED
- SIG-26 - LOCAL AUX5 PRE FEED
- SIG-27 - LOCAL AUX6 PRE FEED
- SIG-28 - LOCAL AUX7 PRE FEED
- SIG-29 - LOCAL AUX8 PRE FEED
- SIG-30 - LOCAL MONO POST FEED
- SIG-31 - LOCAL AUX1 PRE FEED
- SIG-32 - LOCAL AUX2 PRE FEED
- SIG-33 - LOCAL AUX3 PRE FEED
- SIG-34 - LOCAL AUX4 PRE FEED
- SIG-35 - LOCAL MONO PRE FEED
- SIG-36 - LOCAL MONO POST FEED
- SIG-37 - LOCAL LEFT PRE FEED
- SIG-38 - LOCAL RIGHT PRE FEED
- SIG-39 - LOCAL LEFT POST FEED
- SIG-40 - LOCAL RIGHT POST FEED
- SIG-41 - LOCAL MONO ISOLATE CTRL
- SIG-42 - LOCAL AUX2 ISOLATE CTRL
- SIG-43 - LOCAL AUX3 ISOLATE CTRL
- SIG-44 - LOCAL AUX4 ISOLATE CTRL
- SIG-45 - LOCAL AUX5 ISOLATE CTRL
- SIG-46 - LOCAL AUX6 ISOLATE CTRL
- SIG-47 - LOCAL AUX7 ISOLATE CTRL
- SIG-48 - LOCAL AUX8 ISOLATE CTRL
- SIG-49 - LEFT/RIGHT/MONO PRE TO MASTER CONTROL
- SIG-50 - LOCAL LEFT/RIGHT ISOLATE CONTROL
- SIG-51 - LOCAL MONO ISOLATE CONTROL
- SIG-52 - LOCAL SOLO ISOLATE CONTROL
- SIG-53 - LOCAL SLAVE CONTROL
- SIG-54 - LOCAL SOLO SENSE CONTROL
- SIG-55 - LOCAL SOLO LEFT FEED
- SIG-56 - LOCAL SOLO RIGHT FEED
- SIG-57 - OP SOLO CLEAR (SIDE CAR)
- SIG-58 - SIDE CAR SENSE
- SIG-59 - SOLO-TALLY TO METERS
- SIG-60 - SOLO-TALLY TO METERS
- SIG-61 - SOLO-TALLY TO METERS
- SIG-62 - SOLO-TALLY TO METERS
- SIG-63 - SOLO-TALLY TO METERS
- SIG-64 - SOLO-TALLY TO METERS



COMPANY: **CRESTAUDIO**

TITLE: **V12 SIDECAR 5 WAY MOTHERBOARD**

DATE: 4/00

REV: B

FILE NAME: V125MBDB.SCH

SIZE: D

CODE: D

SCALE: 1 OF 1

ORIG DRAWN: TAZ

CHECKED: []

CUR REV DRAWN: []

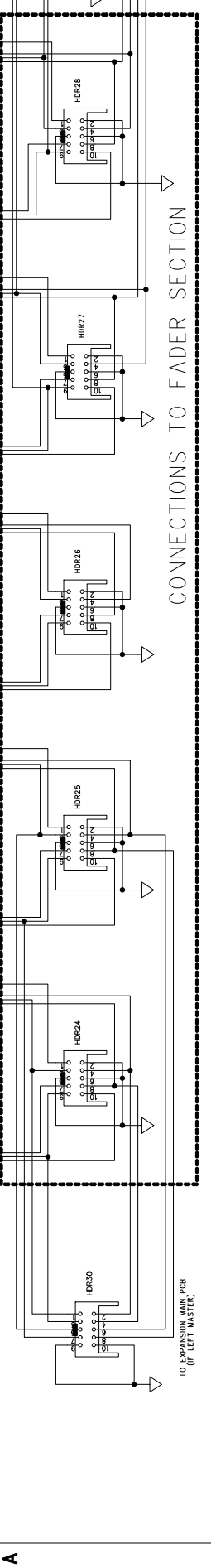
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DATE: 4/00

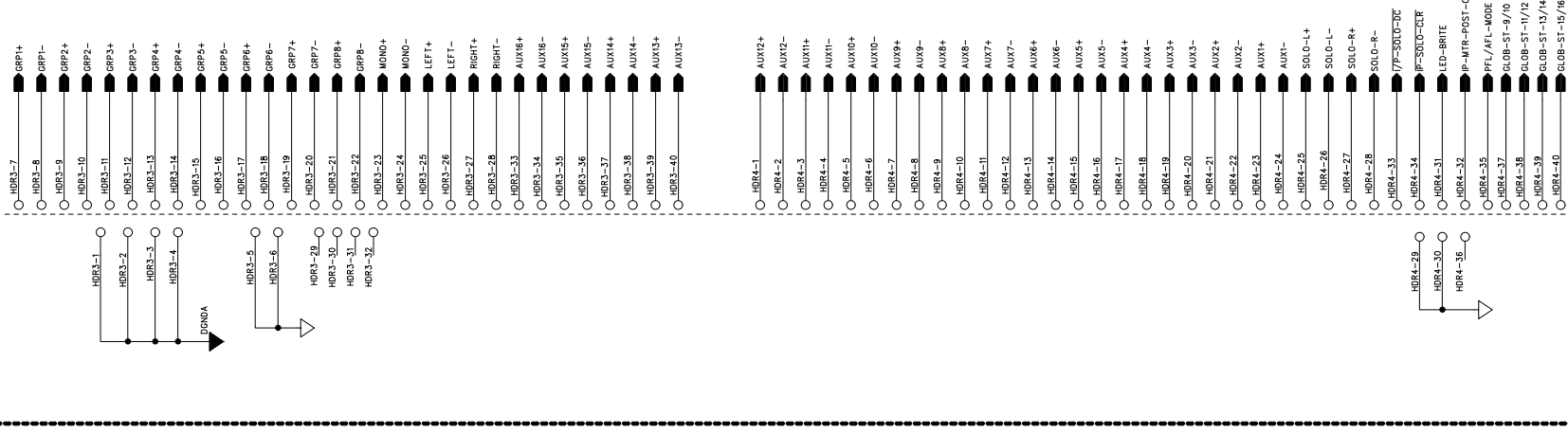
DATE: []

DATE: []

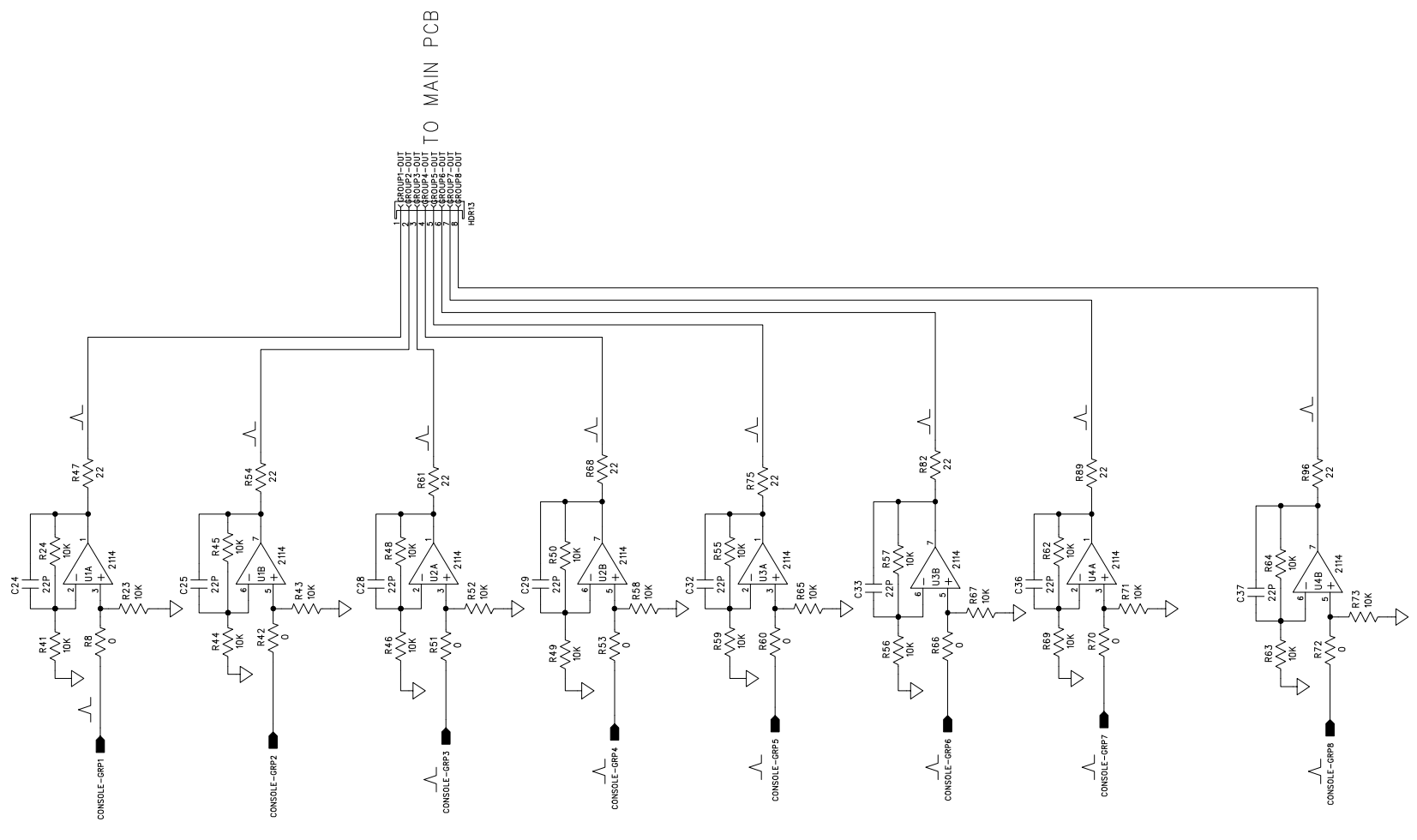
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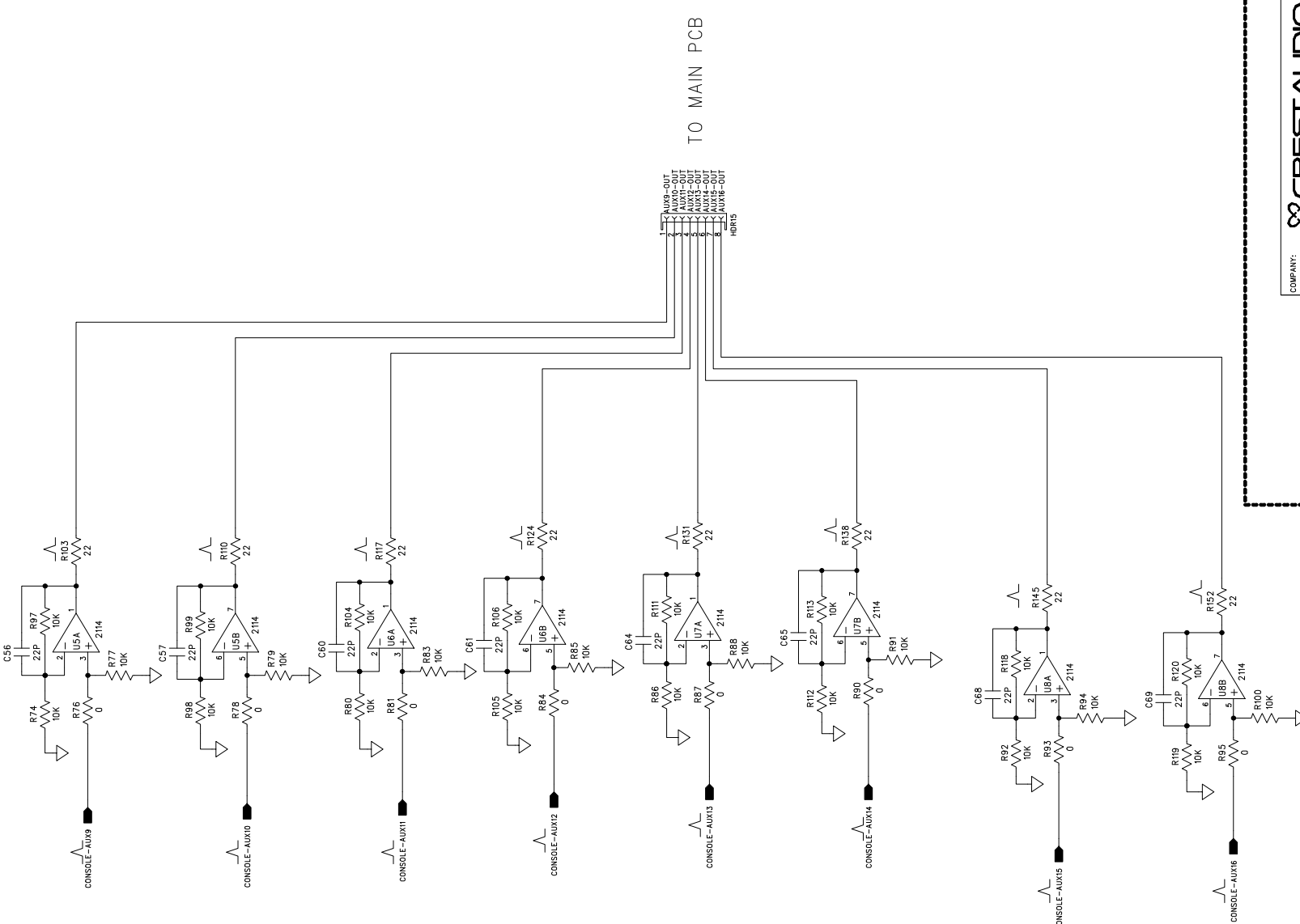
CONNECTION TO/FROM SUB PCB



GROUP OUT BUFFERS



AUX 9-16 OUT BUFFERS



REVISION RECORD

ECO NO.	APPROVED:	DATE:
LTR		

COMPANY: **CRESTAUDIO**

TITLE: **V12 CONSOLE EXPANSION SUB PCB**

ORG DRAWN: TAZ DATED: 10/99

CHECKED: DATED:

CUR REV DRAWN: DATED:

RELEASED: DATED:

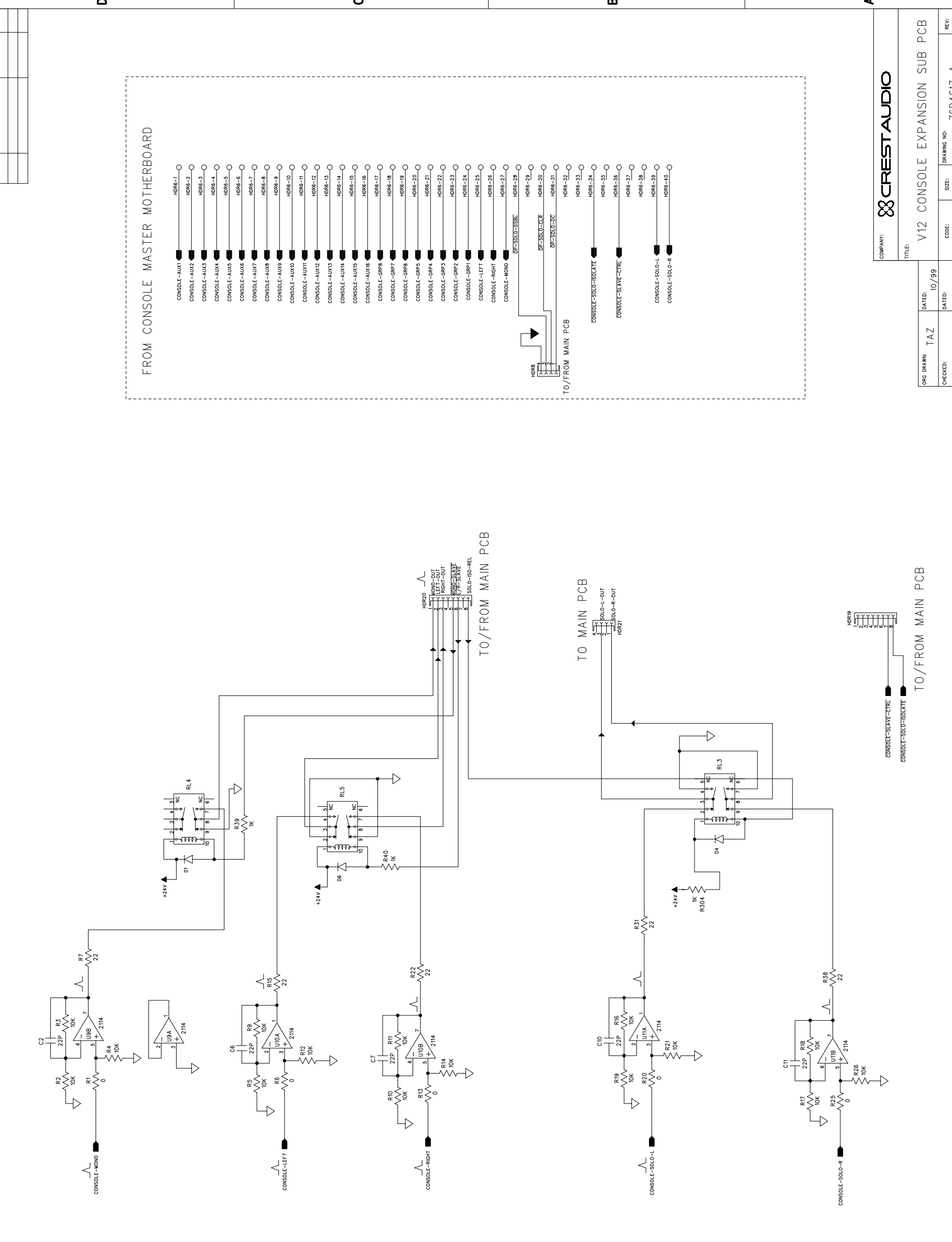
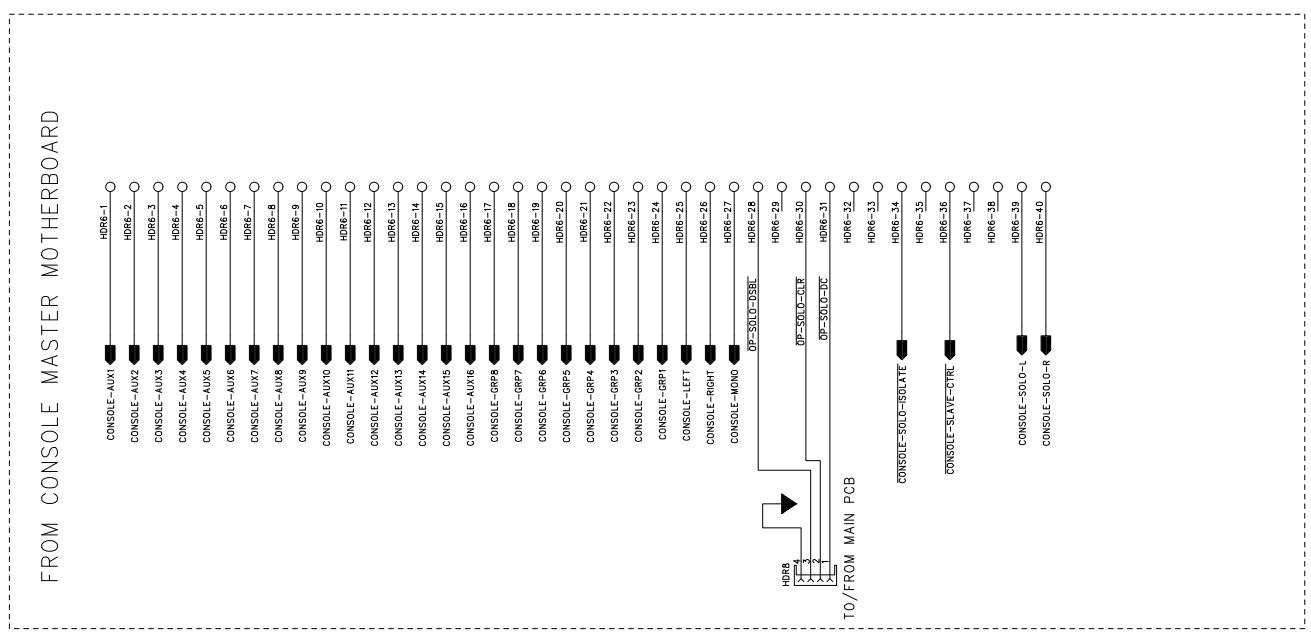
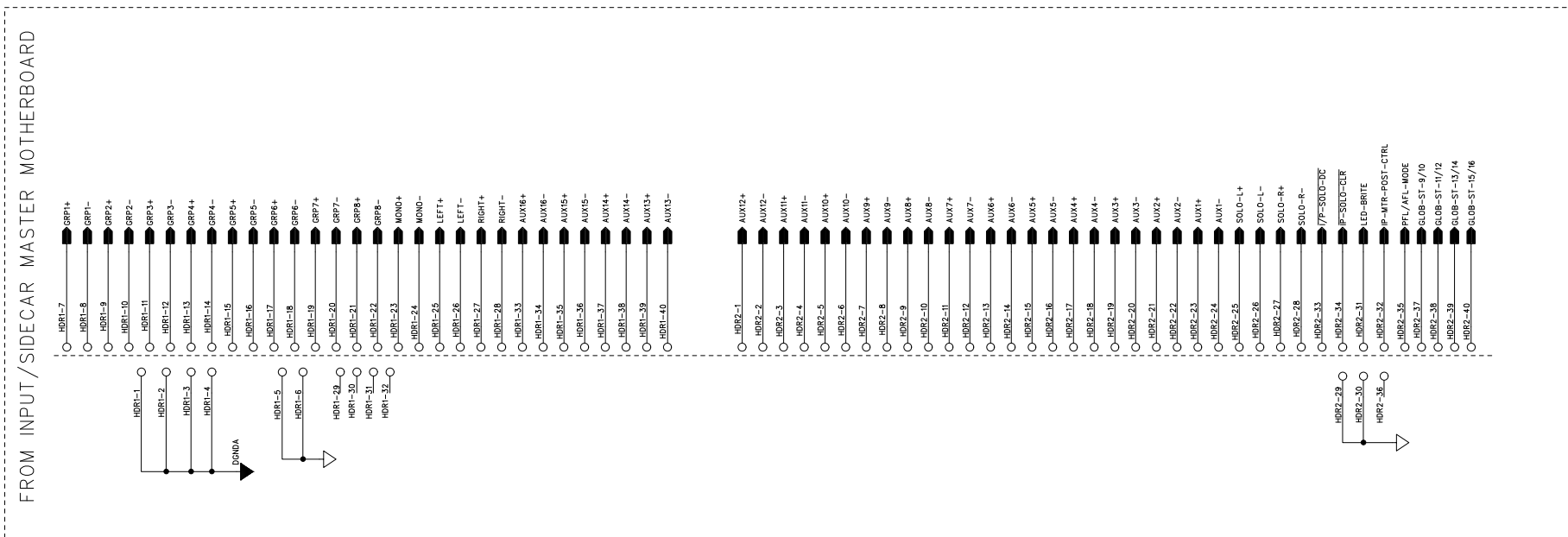
CODE: SIZE: **D** DRAWING NO: 76D4617-A

FILE NAME: V12CEXSA.SCH

REV: **A**

SCALE: SHEET: 1 OF 3

REVISION RECORD		DATE:
LTR	ECO NO:	
	APPROVED:	



COMPANY: **CRESTAUDIO**

TITLE: **V12 CONSOLE EXPANSION SUB PCB**

ORG DRAWN: TAZ	DATE: 10/99
CHECKED:	DATE:
CUR REV DRAWN:	DATE:
RELEASED:	DATE:

CODE: **D**

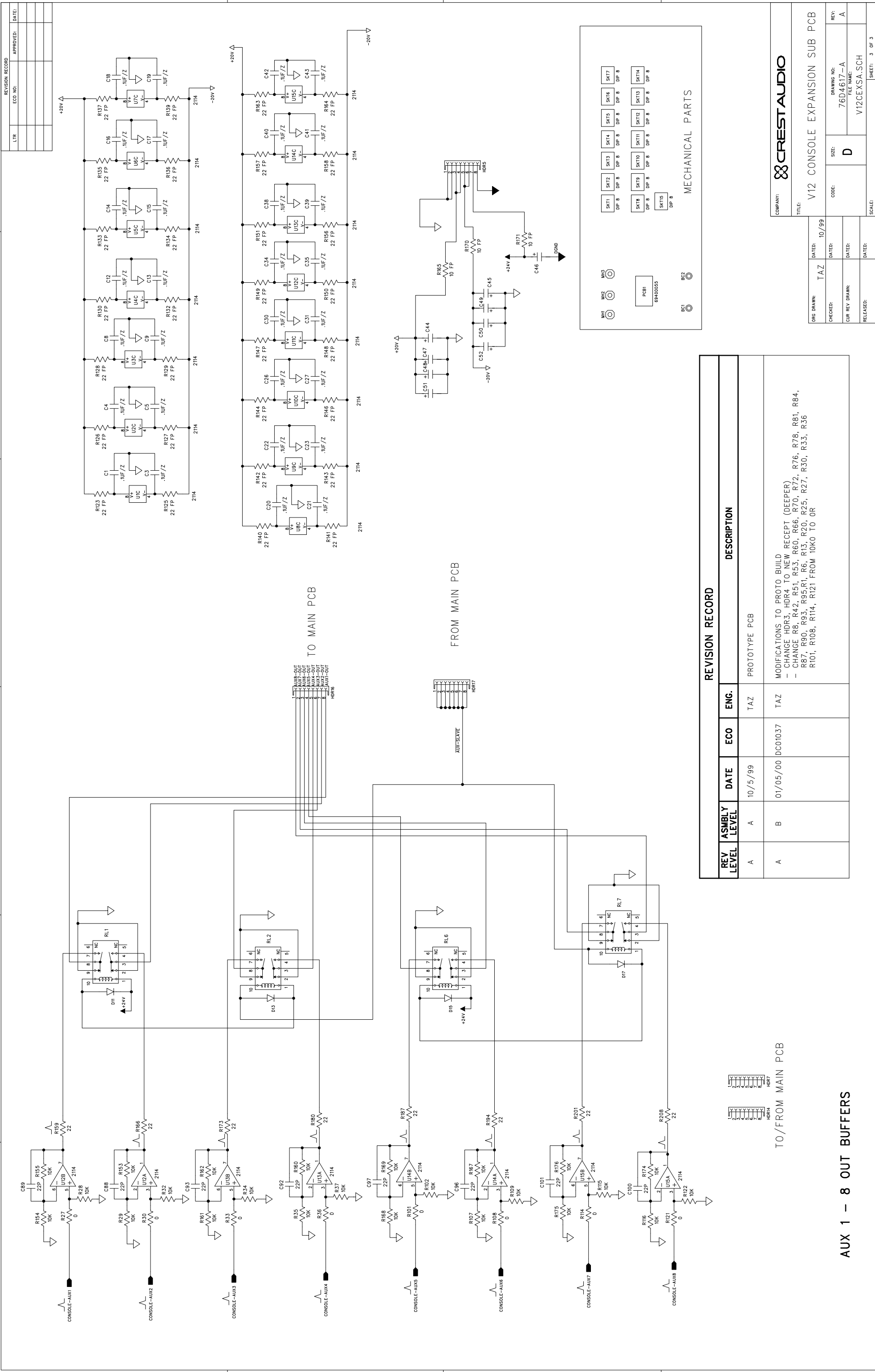
SIZE: **D**

DRAWING NO: **76D4617-A**

REV: **A**

FILE NAME: **V12CEXSA.SCH**

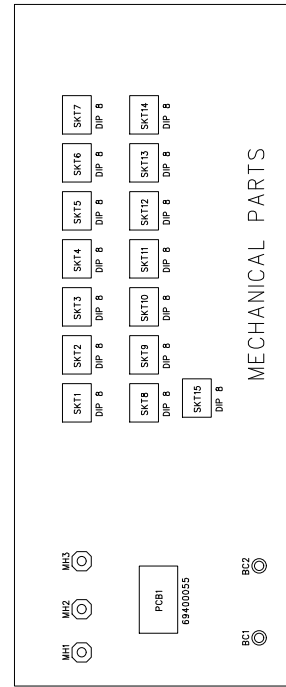
SCALE: **2 OF 3**



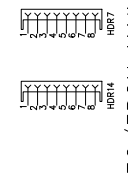
REVISION RECORD	
ECO NO:	DATE:

COMPANY: CRESTAUDIO	
TITLE: V12 CONSOLE EXPANSION SUB PCB	
ORG DRAWN: TAZ	DATE: 10/99
CHECKED:	DATE:
CUR REV DRAWN:	DATE:
RELEASED:	DATE:
SIZE: D	DRAWING NO: 76D4617-A
	FILE NAME: V12CEXSA.SCH
	REV: A
	SCALE: 3 OF 3

REVISION RECORD					
REV LEVEL	ASMBLY LEVEL	DATE	ECO	ENG.	DESCRIPTION
A	A	10/5/99		TAZ	PROTOTYPE PCB
A	B	01/05/00	DC01037	TAZ	MODIFICATIONS TO PROTO BUILD - CHANGE HDR3, HDR4 TO NEW RECEIPT (DEEPER) - CHANGE R6, R42, R51, R53, R60, R66, R70, R76, R78, R81, R84, R87, R90, R93, R95, R1, R6, R13, R20, R25, R27, R30, R33, R36, R101, R108, R114, R121 FROM 10K TO 0R



AUX 1 - 8 OUT BUFFERS

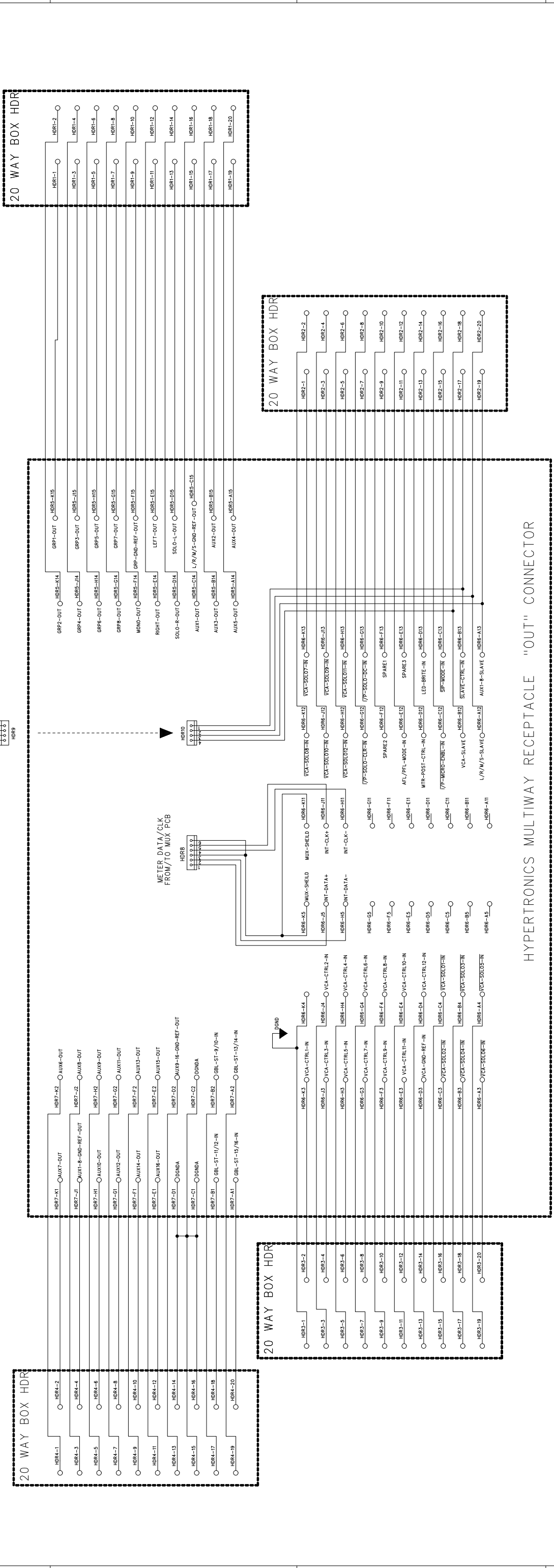


TO/FROM MAIN PCB

TO MAIN PCB

FROM MAIN PCB

REVISION RECORD	
LTR	DATE



HYPERTRONICS MULTIWAY RECEPTACLE "OUT" CONNECTOR

COMPANY: **CRESTAUDIO**

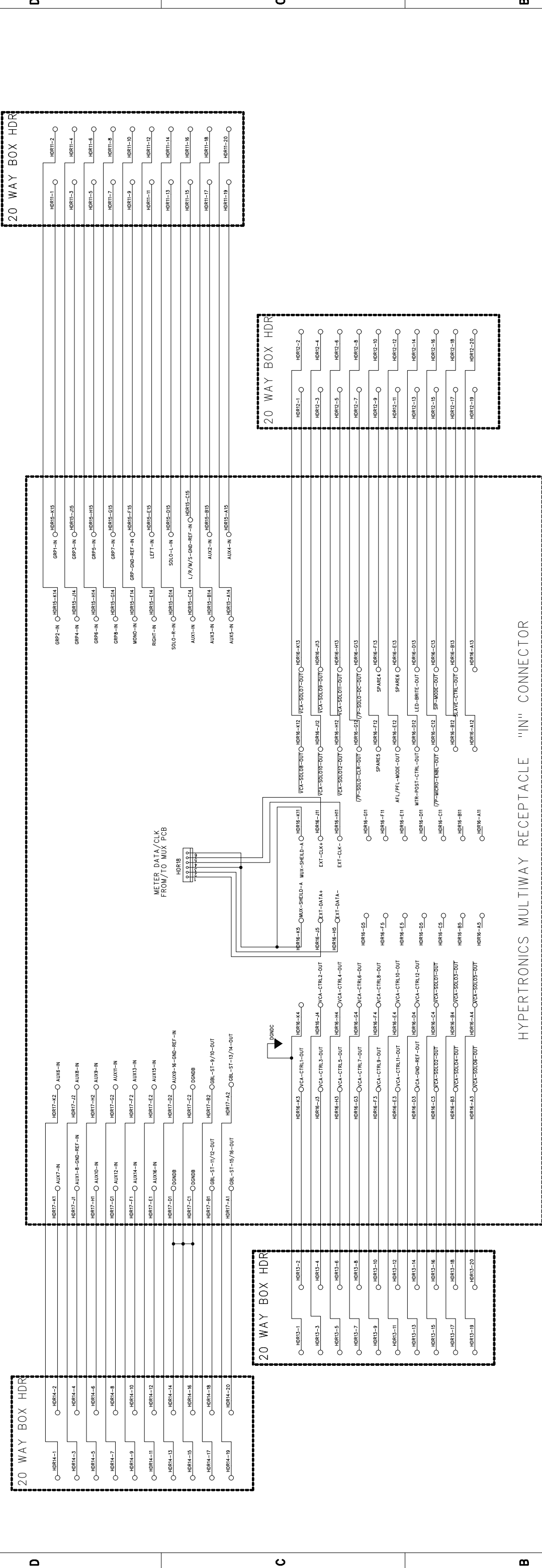
TITLE: **V12 EXPANSION INTERFACE PCB**

ORG DRAWN: TAZ	DATED: 9/99
CHECKED:	DATED:
CUR REV DRAWN: D	DATED:
RELEASED:	DATED:

CODE:	SIZE: D	DRAWING NO: 76D3233	REV: A
FILE NAME: V12EXPIA.SCH	SCALE: 1 OF 2		

PCB1 6840052

REVISION RECORD	
LTR	DATE



HYPERTRONICS MULTIWAY RECEPTACLE "IN" CONNECTOR

COMPANY: CRESTAUDIO

TITLE: V12 EXPANSION INTERFACE PCB

ORG DRAWN: TAZ **DATED:** 9/99

CHECKED: **DATED:** **REV:** A

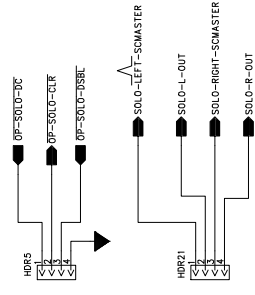
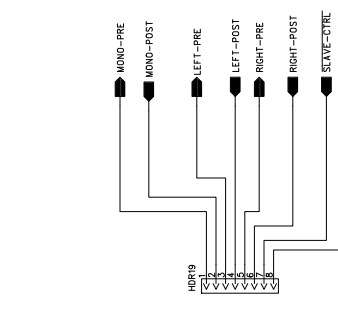
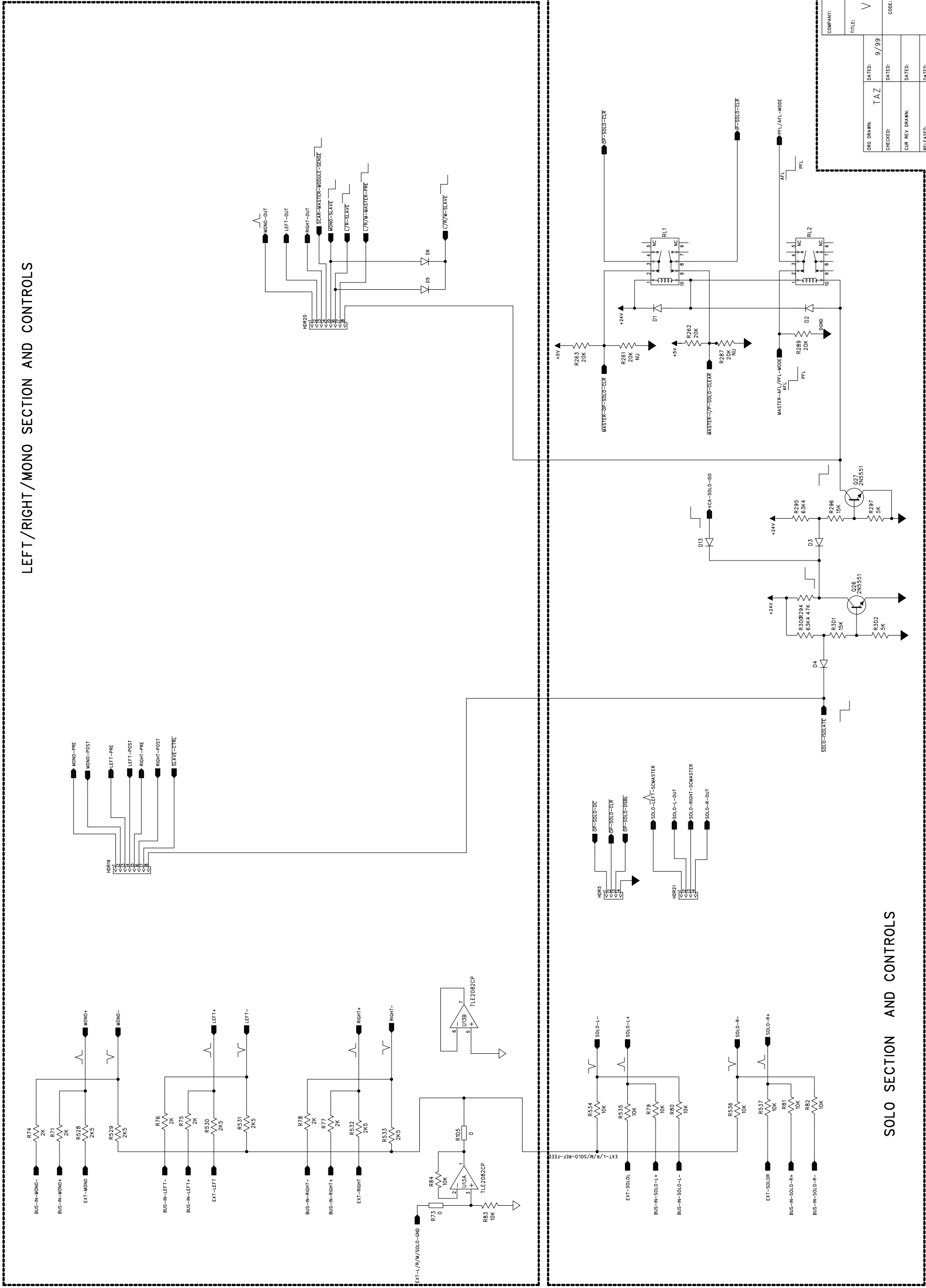
CUR REV DRAWN: **DATED:** **FILE NAME:** 76D3233

RELEASED: **DATED:** **SCALE:** 2 OF 2

CODE: D **SIZE:** D **FILE NAME:** V12EXPIA.SCH

REVISION RECORD		DATE:
LTR	ECO NO:	
	APPROVED:	

LEFT/RIGHT/MONO SECTION AND CONTROLS



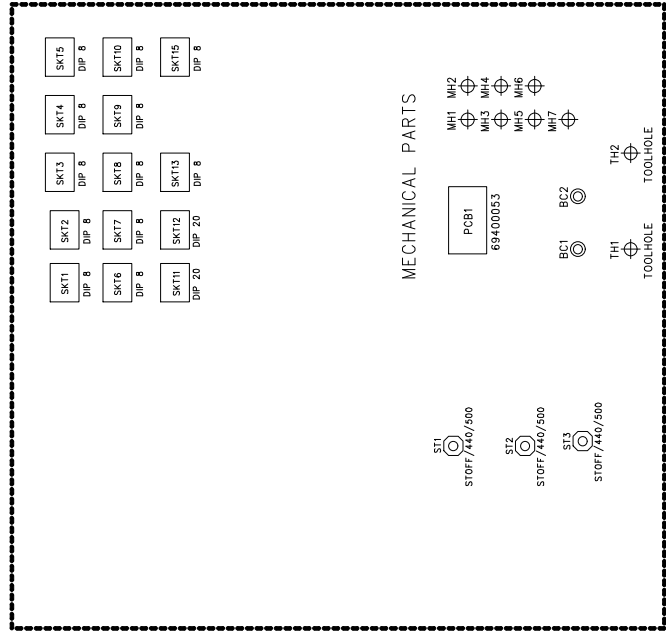
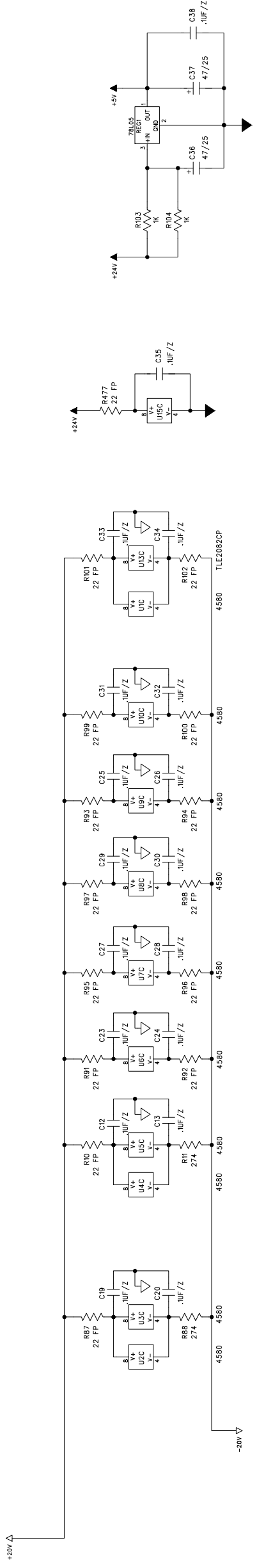
COMPANY: **CRESTAUDIO**

ORG DRAWN: TAZ	DATED: 9/99	REV: A
CHECKED:	DATED:	DRAWING NO: 76D4615
CUR REV DRAWN:	DATED:	FILE NAME: V12EXPMA.SCH
RELEASED:	DATED:	SCALE: 3 OF 5

TITLE: **V12 EXPANSION MAIN PCB**

SOLO SECTION AND CONTROLS

REVISION RECORD		
LTR	ECO NO.	APPROVED: DATE:



REVISION RECORD			
REV LEVEL	ASMBLY LEVEL	DATE	DESCRIPTION
A	A	12/99	PROTOTYPE BUY
A	B	1/5/00	DC01035 MODIFICATIONS TO PROTOTYPE - REMOVE SKT114 - ADD ST3 - CHANGE SKT11, SKT12 TO SOCKET DIP12 0.400 (NOT0.600) - CHANGE R88, R11 FROM 22R-FP TO 274R (REDUCE NEG SUPPLY) - CHANGE R1, R2 FROM 10R-FP TO 0R (CURRENT DRAW DROPS RAILS TOO MUCH) - REMOVE R261, R287 (NOT NEEDED) - CHANGE R115, R117, R119, R121 FROM 47K5 TO 100K0 - CHANGE R113 FROM 1K0 TO 0R (STIFFEN REF VOLTAGE) - FIX FLOATING AGND TO Q5, Q6, Q7, Q8 EMITTERS AND RNSD PIN 8 - REMOVE R47, R48, R49, R51 (CLAMPING TOO SOFT BECAUSE OF THIS) - ADD R52, R53, R55, R56 (1K0) - TO STOP BASE REF VOLTAGE FROM DRIFT

COMPANY: **CRESTAUDIO**

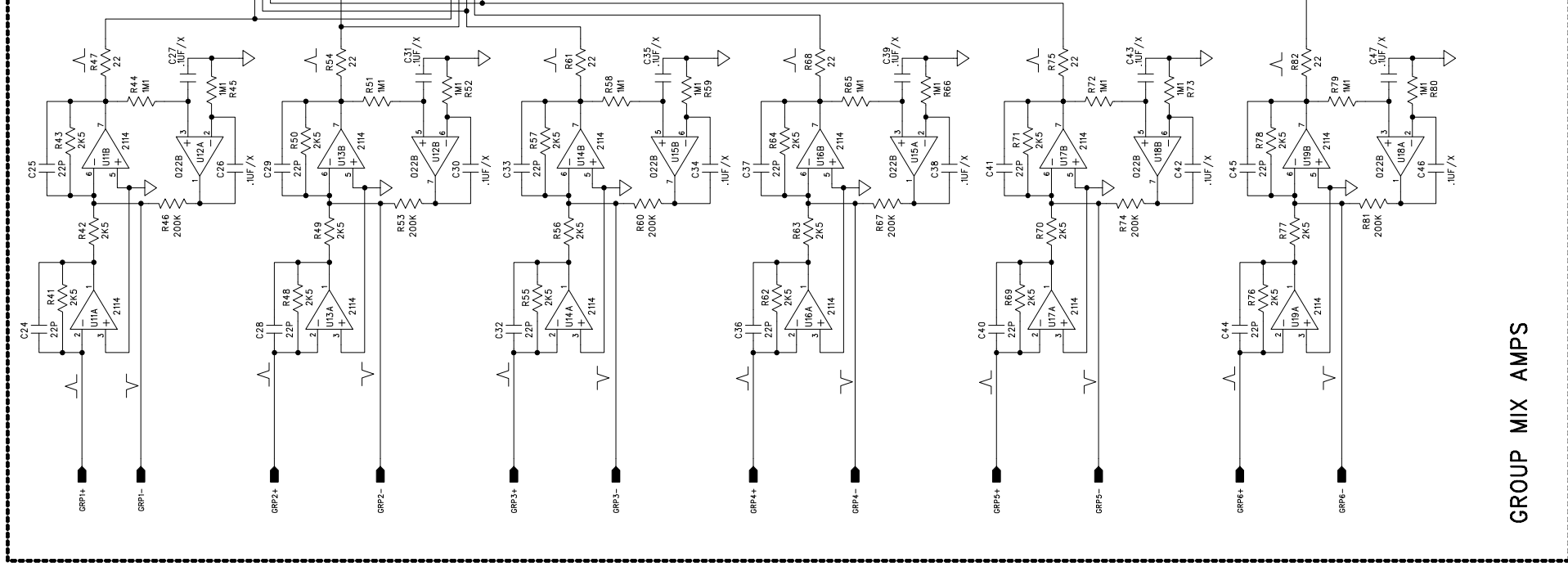
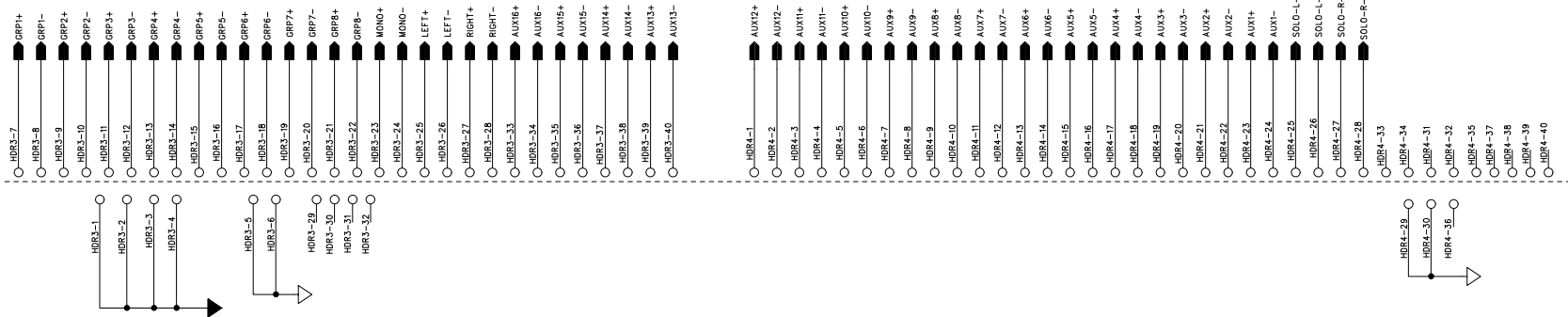
TITLE: **V12 EXPANSION MAIN PCB**

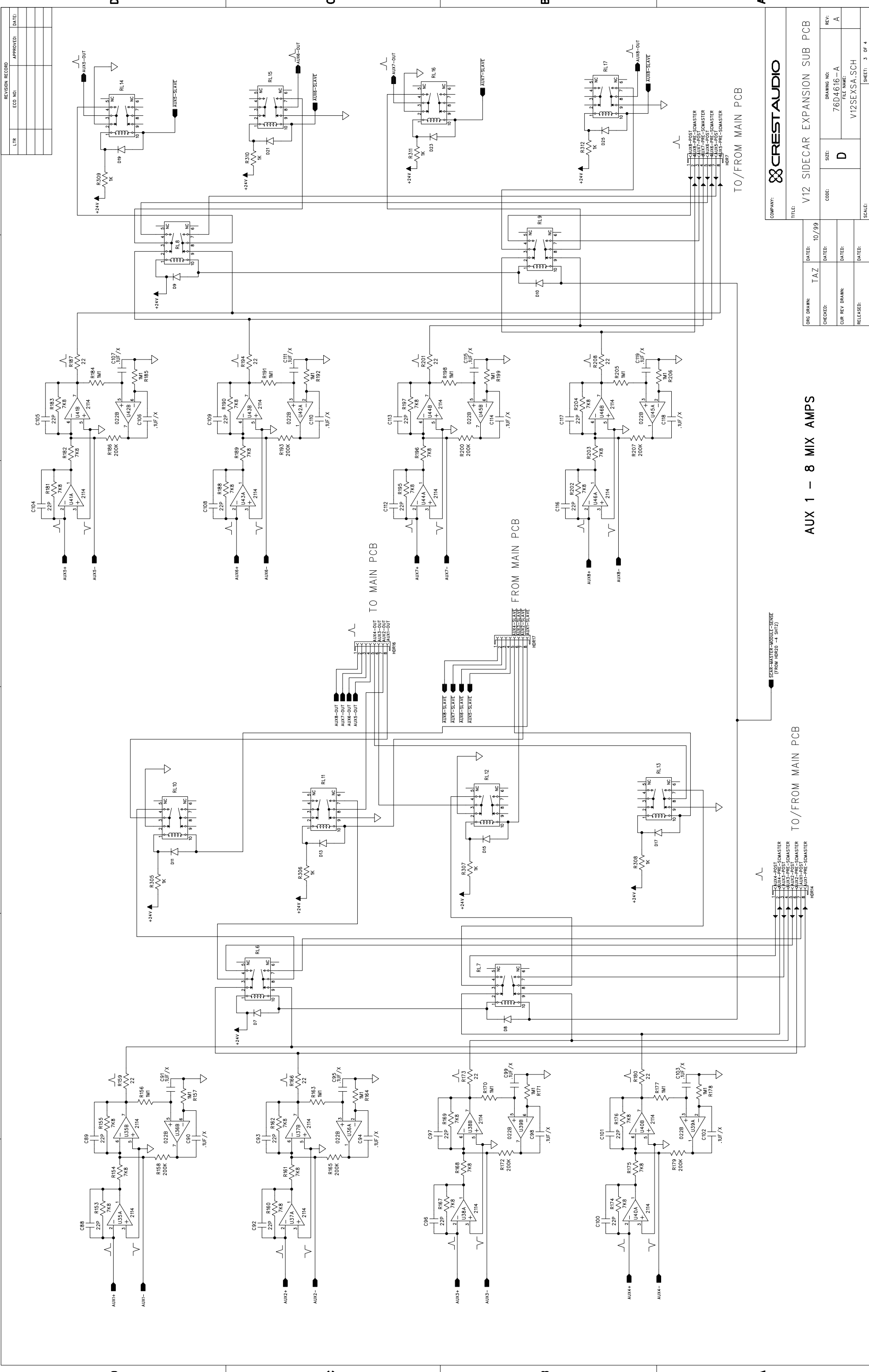
ORG DRAWN: TAZ	DATE: 9/99
CHECKED:	DATE:
CUR REV DRAWN:	DATE:
RELEASED:	DATE:

REV: A	DRAWING NO: 76D4615
FILE NAME: V12EXPMA.SCH	SIZE: D

SCALE: 5 OF 5

CONNECTION TO/FROM SUB PCB





REVISION RECORD		
LTR	ECO NO.	DATE

COMPANY: **CRESTAUDIO**

TITLE: **V12 SIDECAR EXPANSION SUB PCB**

ORG DRAWN: TAZ DATED: 10/99

CHECKED: DATED:

CUR REV DRAWN: DATED:

RELEASED: DATED:

SCAR-MASTER-MODULE-SENSE (FROM HBR20 -4 SH12)

TO/FROM MAIN PCB

TO/FROM MAIN PCB

AUX 1 - 8 MIX AMPS

DRAWING NO: 76D4616-A

FILE NAME: V12SEXSA.SCH

SIZE: D

CODE:

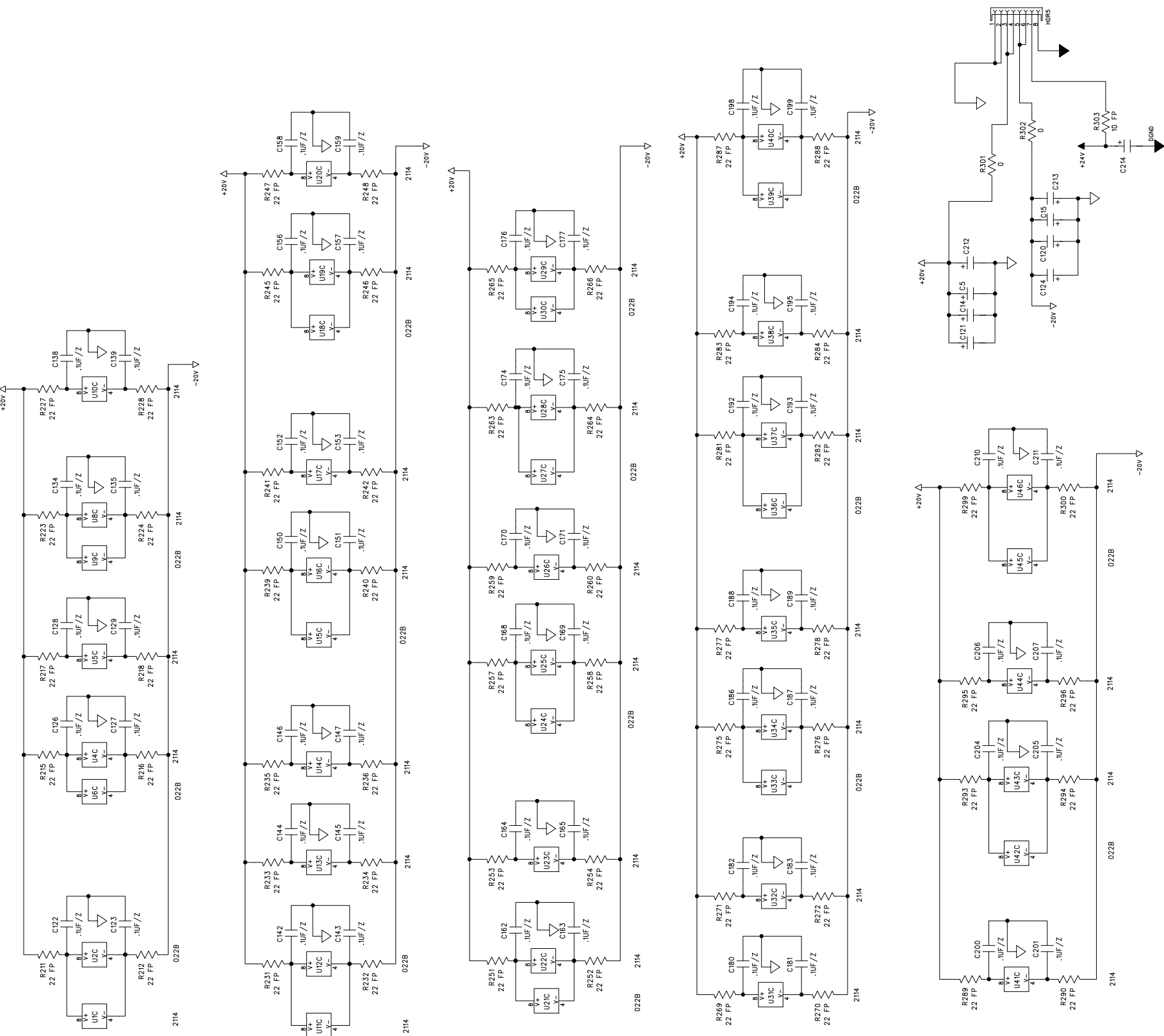
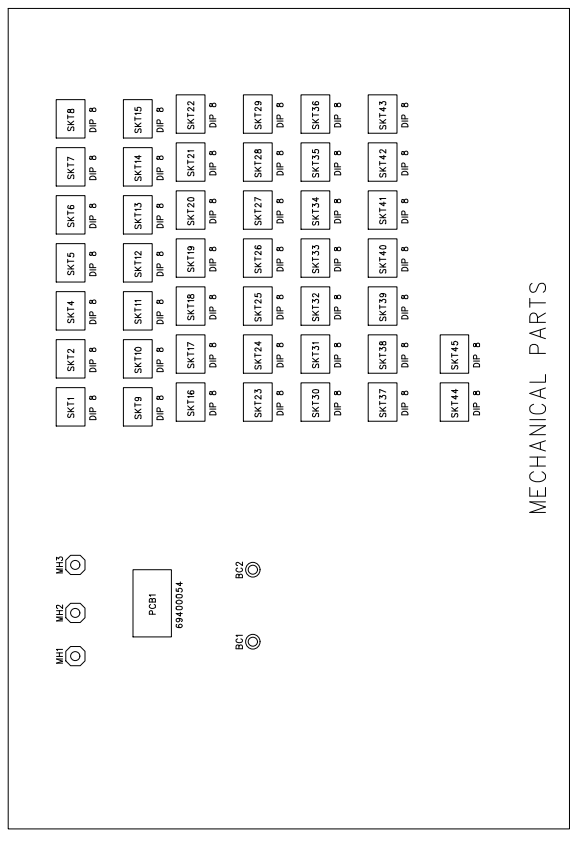
REV: A

SCALE: 3 OF 4

REVISION RECORD	
LTR	DATE
ECO NO.	APPROVED:

REVISION RECORD

REV LEVEL	ASMBLY LEVEL	DATE	ECO	ENG.	DESCRIPTION
A	A	10/5/99		TAZ	PROTOTYPE PCB
A	B	1/5/00		TAZ	MODIFICATIONS TO PROTOTYPE BUILD - CHANGE HDR6, HDR21 TO 4 WAY BTM ENTRY RECEPT (NOT 8) - CHANGE HDR3, HDR4 TO DEEPER BODY 40 WAY RECEPT - CHANGE R301, R302 FROM 10R-FP TO 0R (TO MUCH CURRENT LIMITING) - CHANGE R25, R26, R27, R32, R33, R34 FROM 2K49 TO 10K0 (MIX GAIN)



COMPANY: **CRESTAUDIO**

TITLE: V12 SIDECAR EXPANSION SUB PCB

ORG DRAWN: TAZ	DATE: 10/99
CHECKED:	DATE:
CUR REV DRAWN:	DATE:
RELEASED:	DATE:

CODE: D

SIZE: D

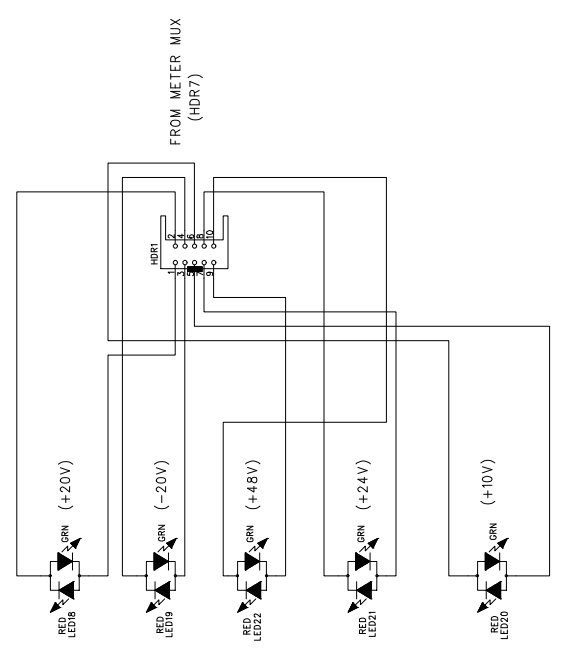
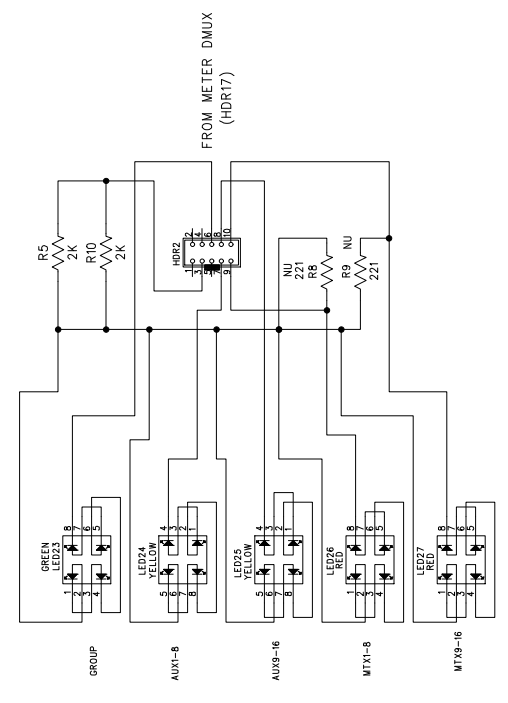
DRAWING NO: 76D4616-A

FILE NAME: V12SEXS.A.SCH

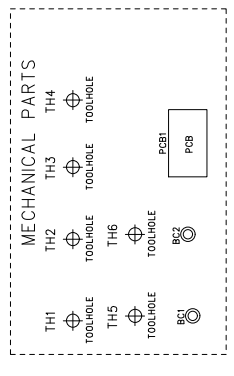
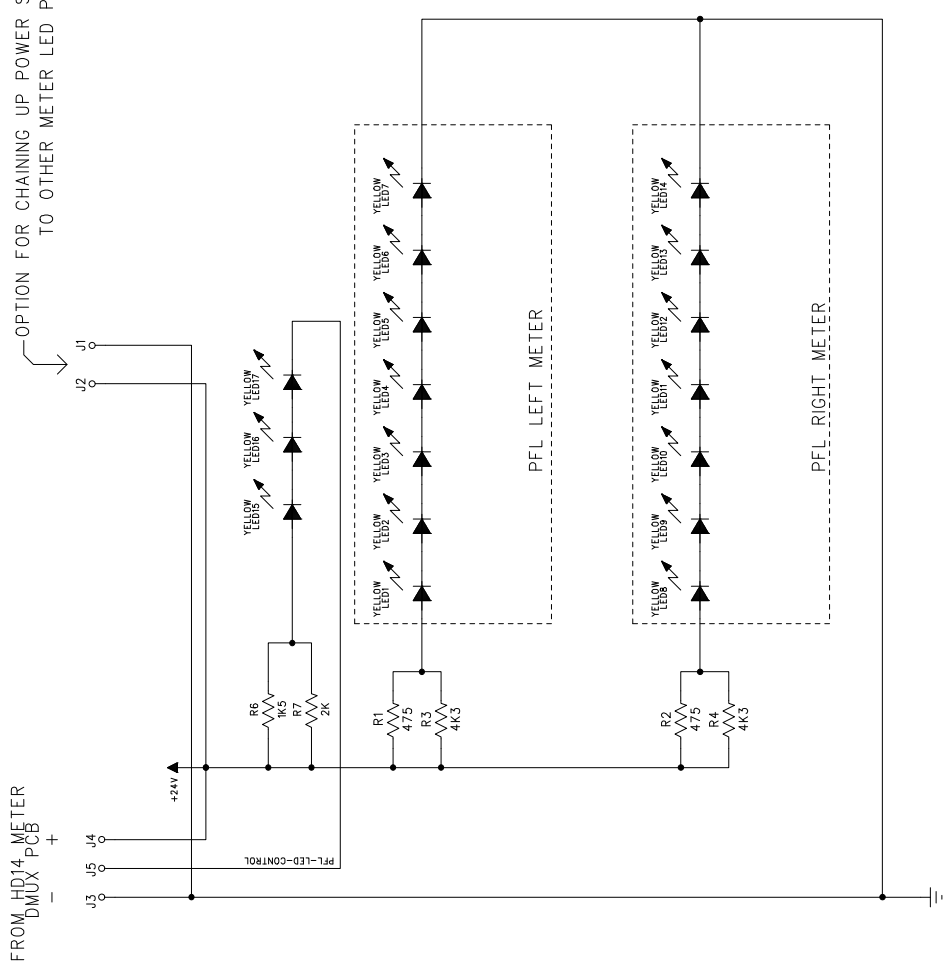
SCALE: 4 OF 4

REVISION RECORD		
LTR	ECO NO:	DATE:

METER BANK1 INDICATORS

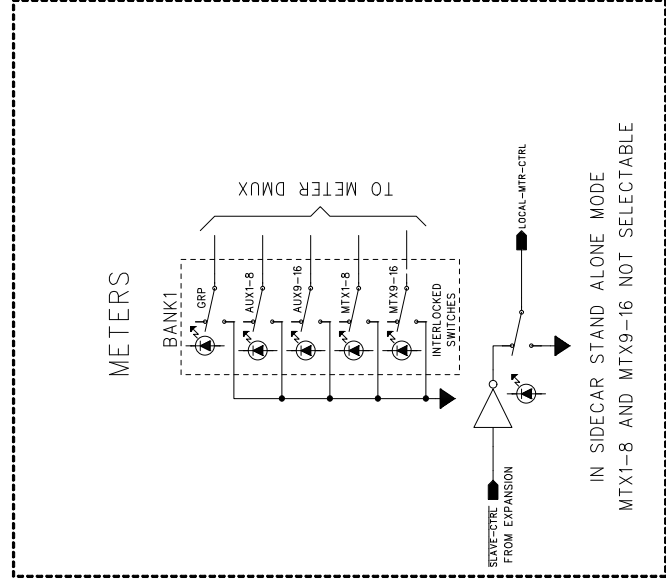
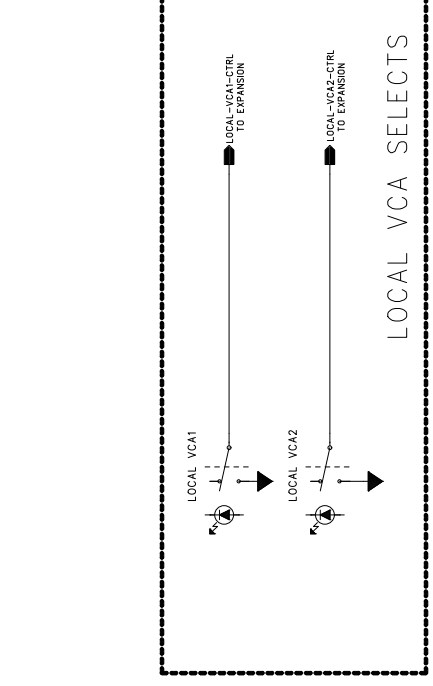
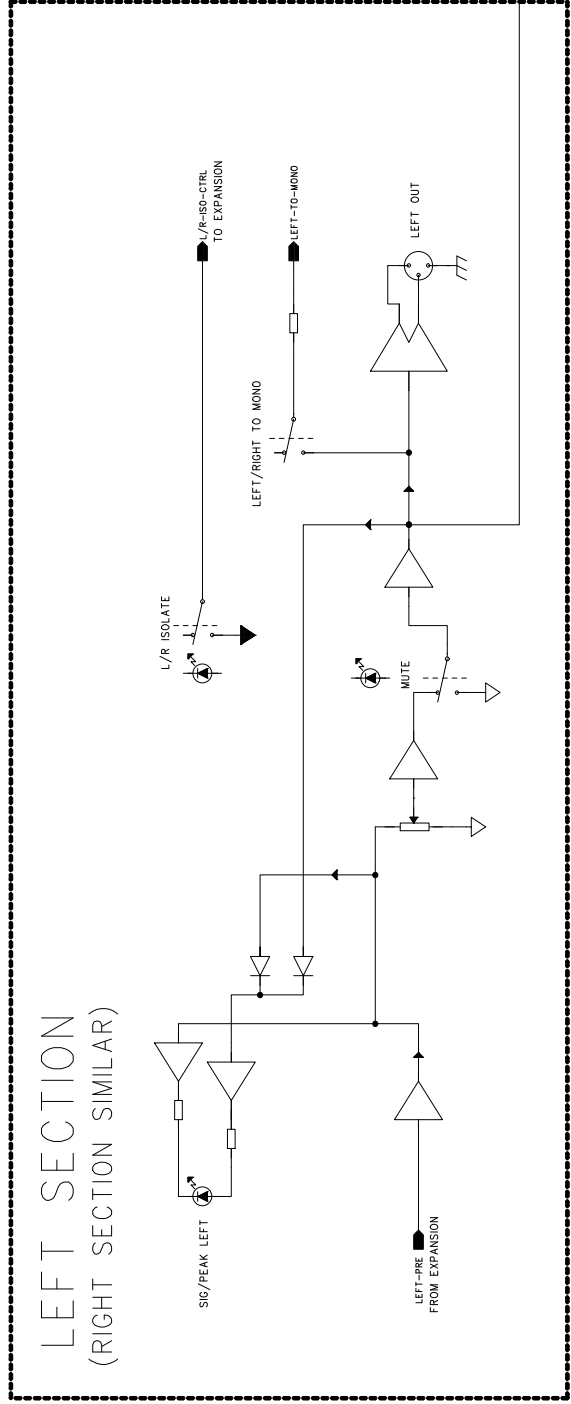
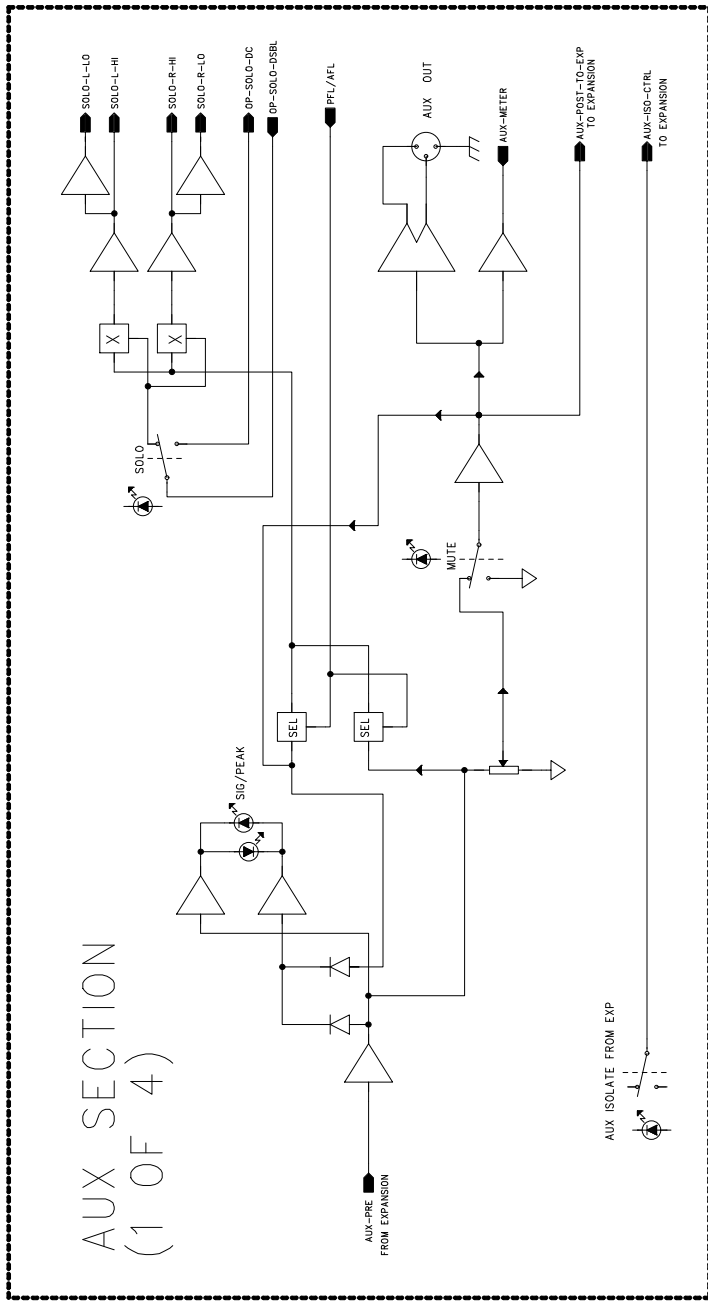
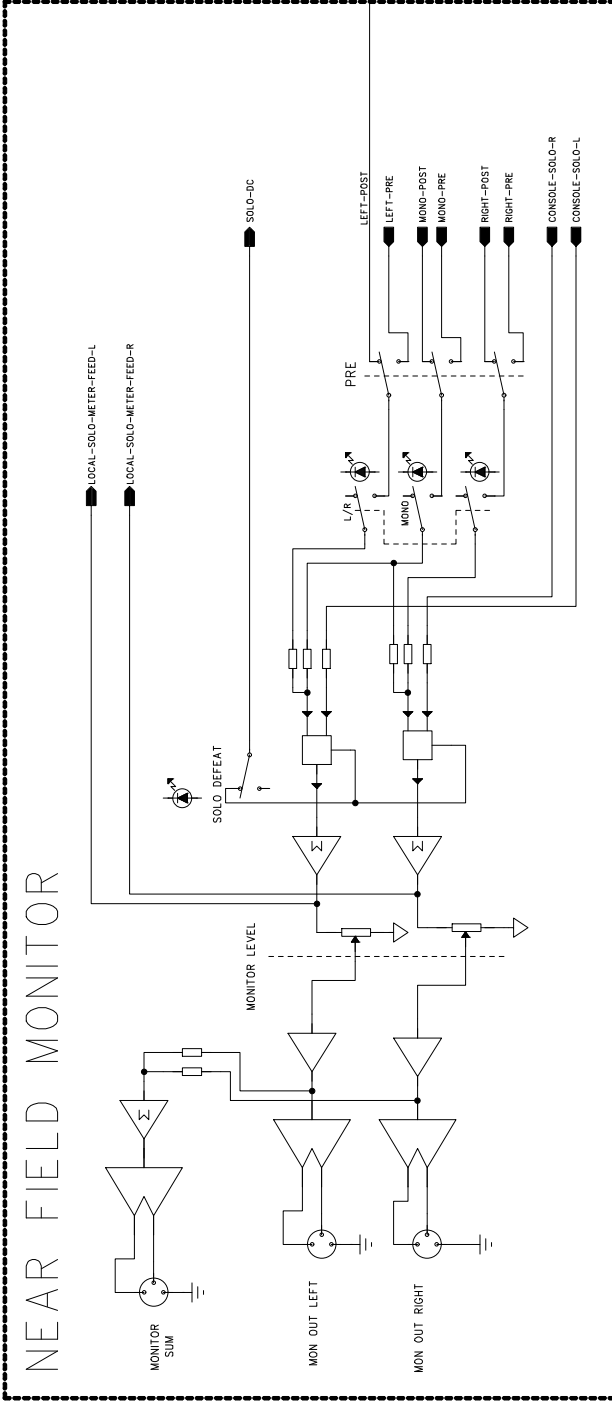


OPTION FOR CHAINING UP POWER SUPPLY TO OTHER METER LED PCBs



COMPANY: CRESTAUDIO	
TITLE: V12 SIDECAR LED PCB	
ORG DRAWN: TAZ	DATED: 8/97
CHECKED:	DATED:
CUR REV DRAWN:	DATED:
RELEASED:	DATED:
CODE:	DRAWING NO: 76D4671
SIZE: D	REV: A
FILE NAME: V12SLEDA.SCH	
SCALE: 1 OF 1	

REVISION RECORD	
LTR	DATE
ECO NO:	APPROVED:



CRESTAUDIO

COMPANY: **CRESTAUDIO**

TITLE: **SIDECAR MASTER1 MODULE SIG FLOW**

ORG DRAWN: TAZ DATED: 9/99

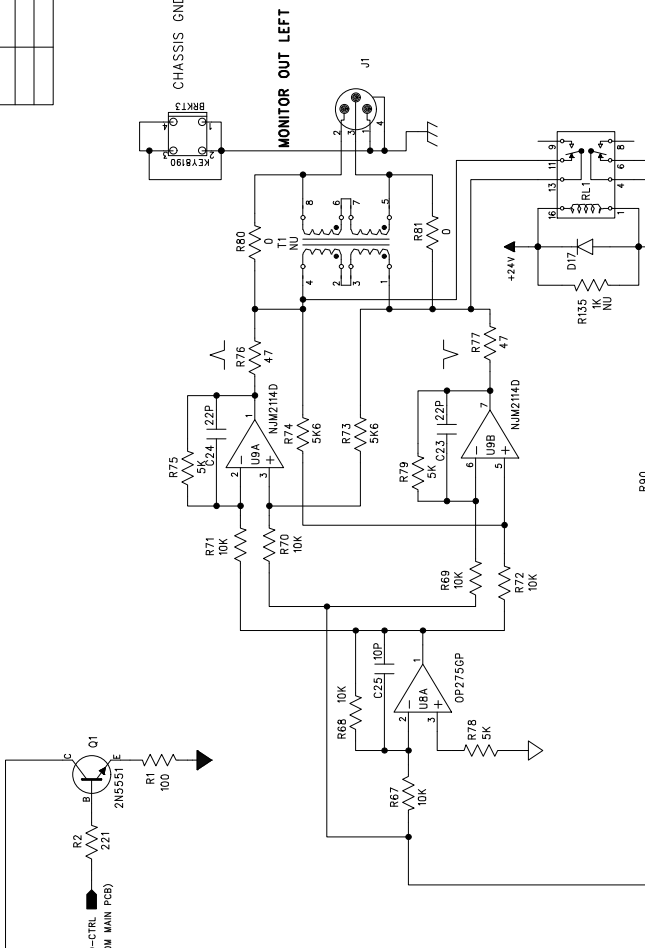
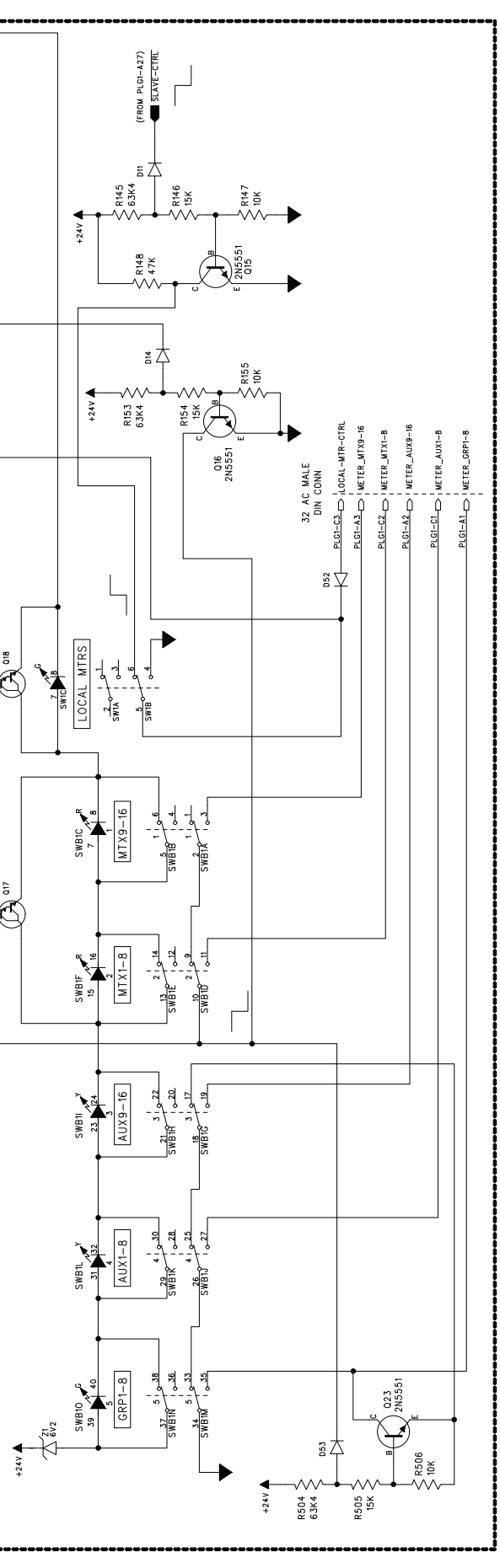
CHECKED: DATED: CODE: DRAWING NO: REV: SCALE: SHEET: 1 OF 1

CUR REV DRAWN: DATED: FILE NAME: V12SM1BK.SCH

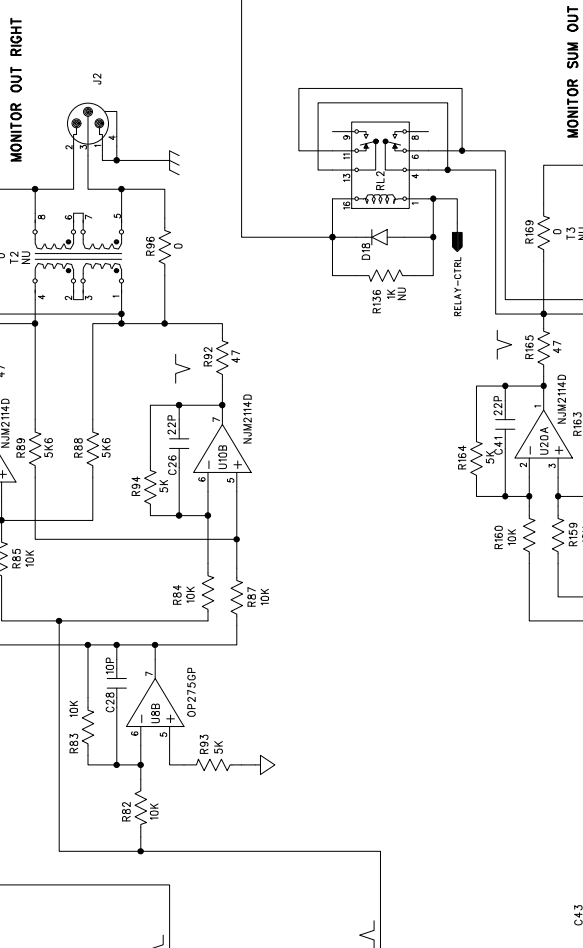
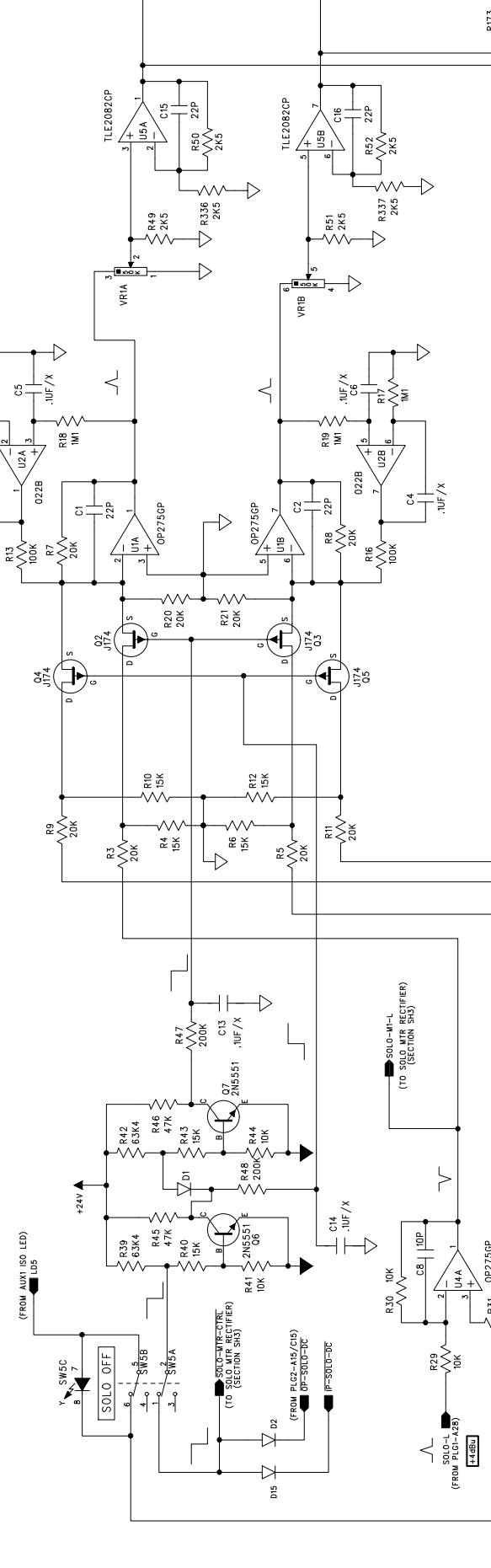
RELEASED: DATED: SIZE: **D**

REVISION RECORD		DATE:
LTR	ECO NO:	
	APPROVED:	

METERS SOURCE SELECT



MONITOR SECTION

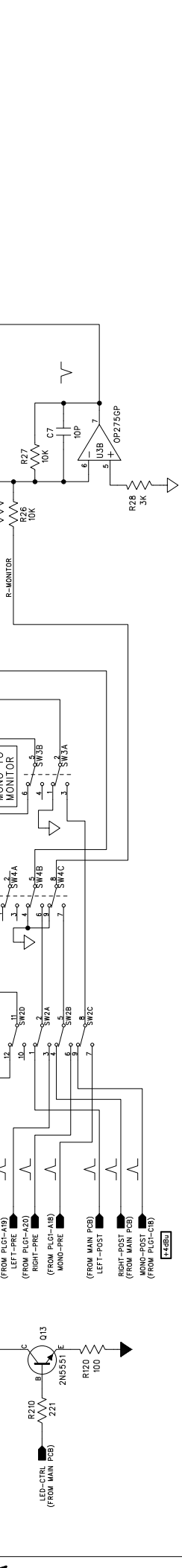


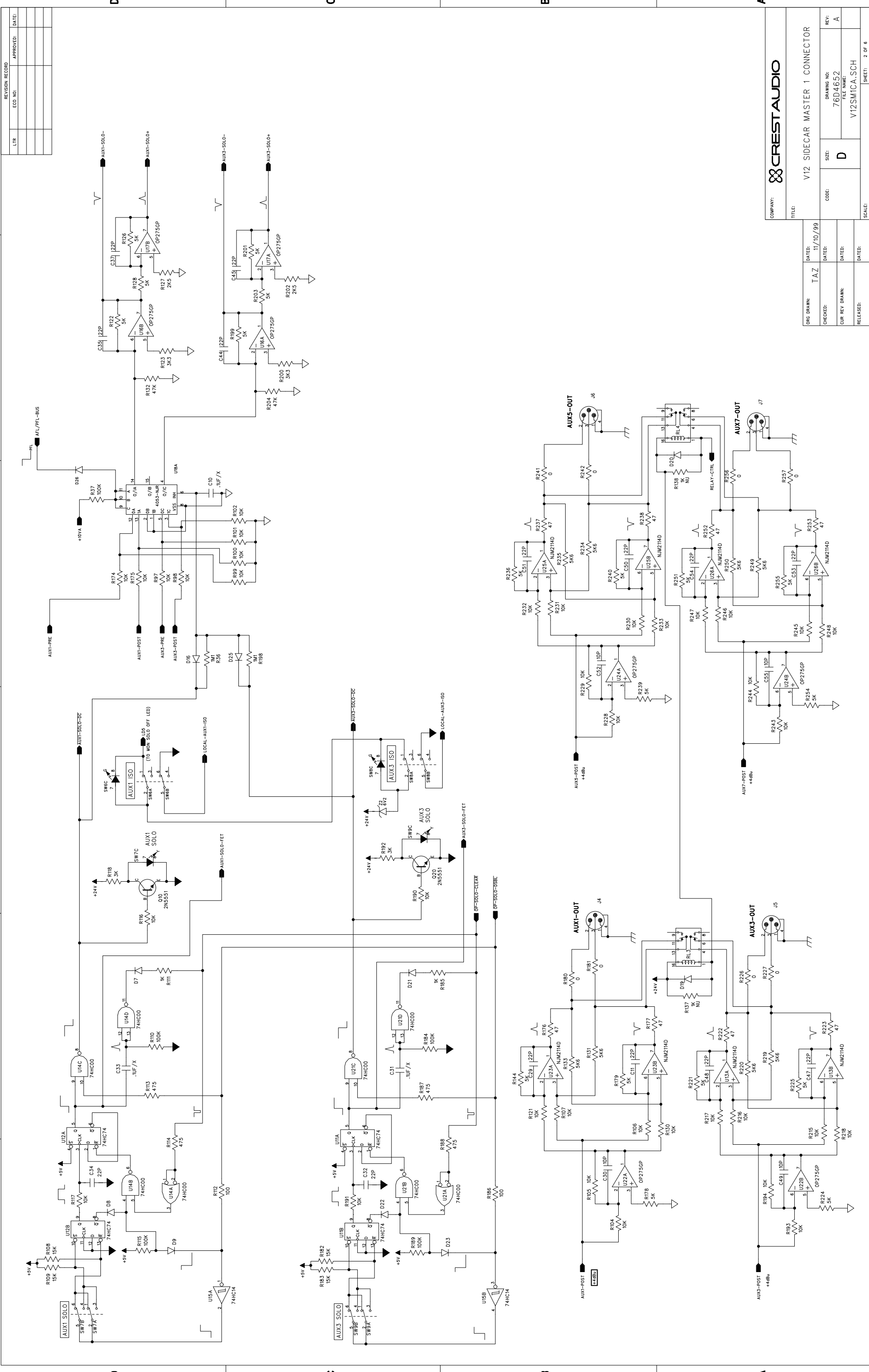
CRESTAUDIO

COMPANY: CRESTAUDIO
 TITLE: V12 SIDECAR MASTER 1 CONNECTOR

ORG DRAWN: TAZ	DATE: 11/10/99
CHECKED:	DATE:
CUR REV DRAWN:	DATE:
RELEASED:	DATE:

SIZE: D	CODE:
DRAWING NO: 76D4652	REV: A
FILE NAME: V12SM1CA.SCH	SCALE:





REVISION RECORD	
LTR	DATE

CREST AUDIO

COMPANY: **CREST AUDIO**

TITLE: **V12 SIDECAR MASTER 1 CONNECTOR**

ORG DRAWN: **T.A.Z.** DATED: **11/10/99**

CHECKED: DATED:

CUR REV DRAWN: DATED:

RELEASED: DATED:

SCALE: **2 OF 6**

REV: **A**

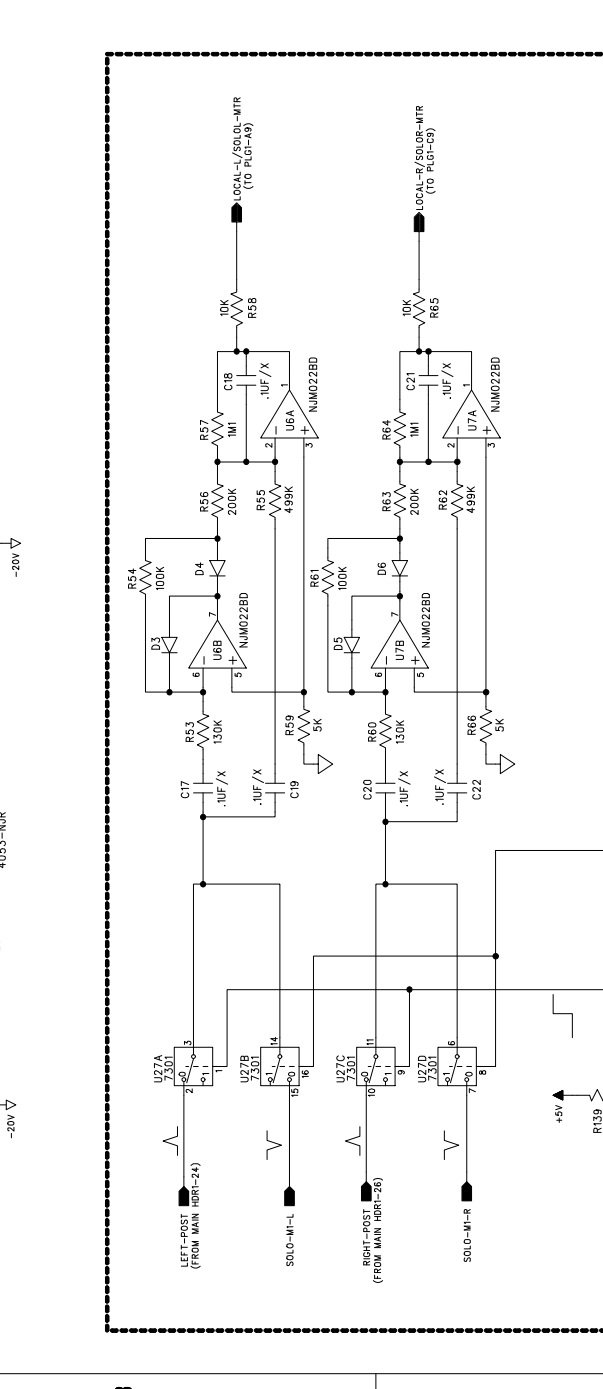
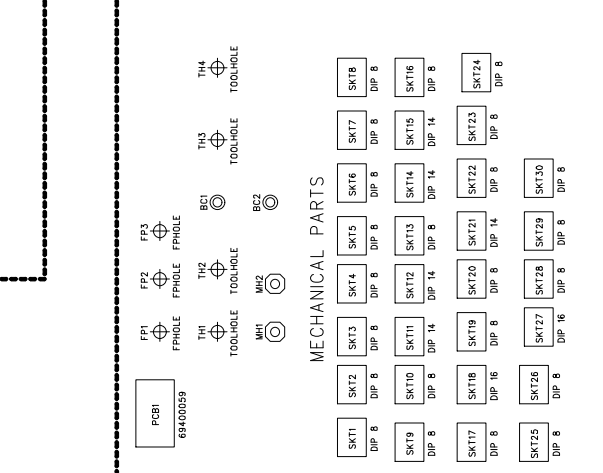
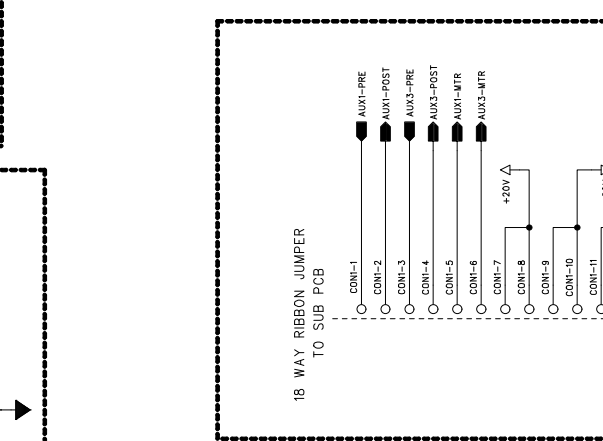
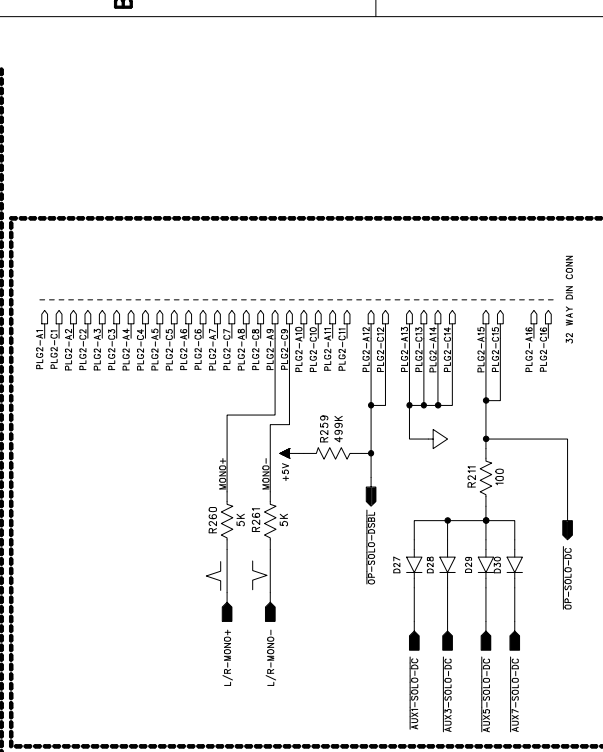
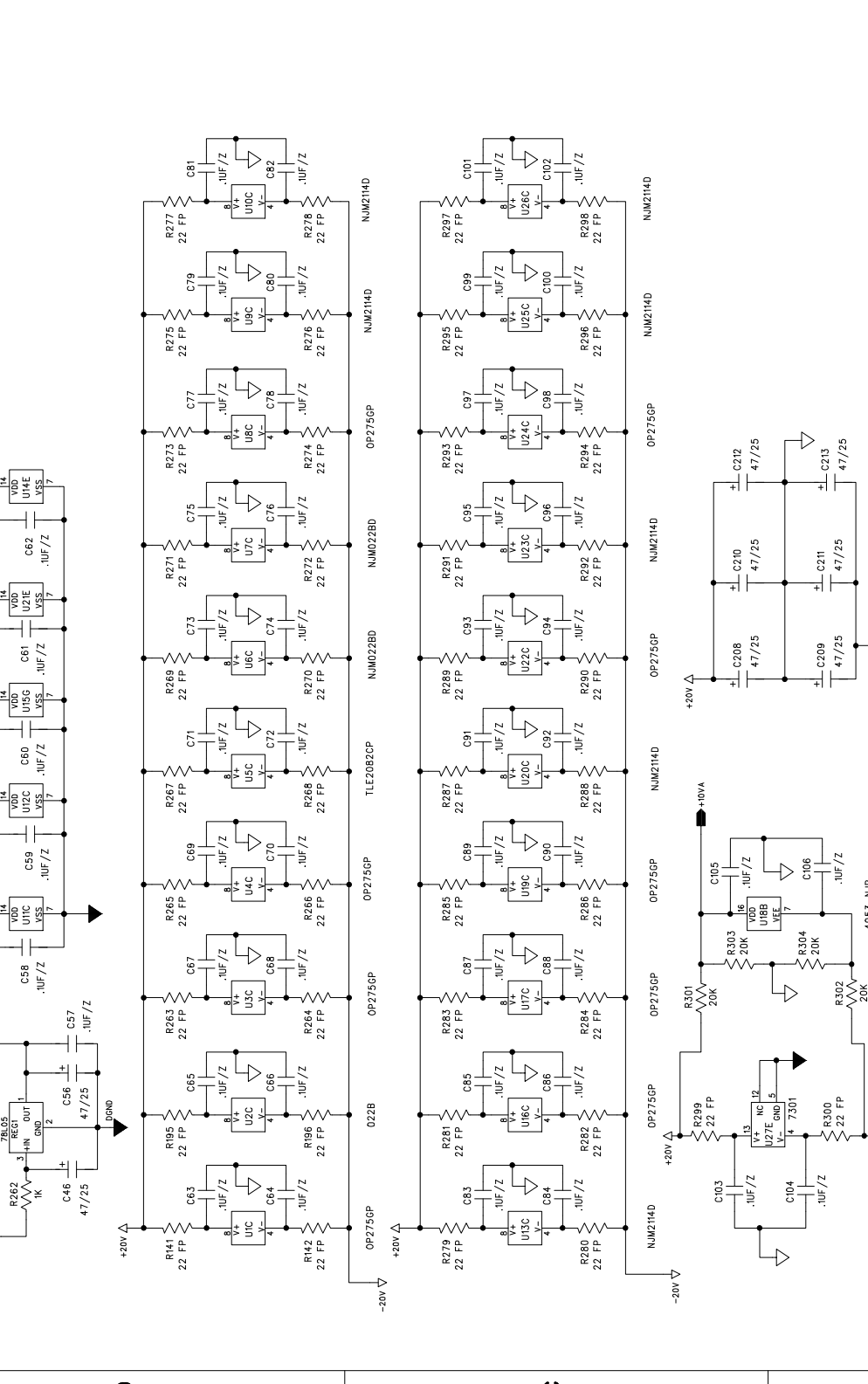
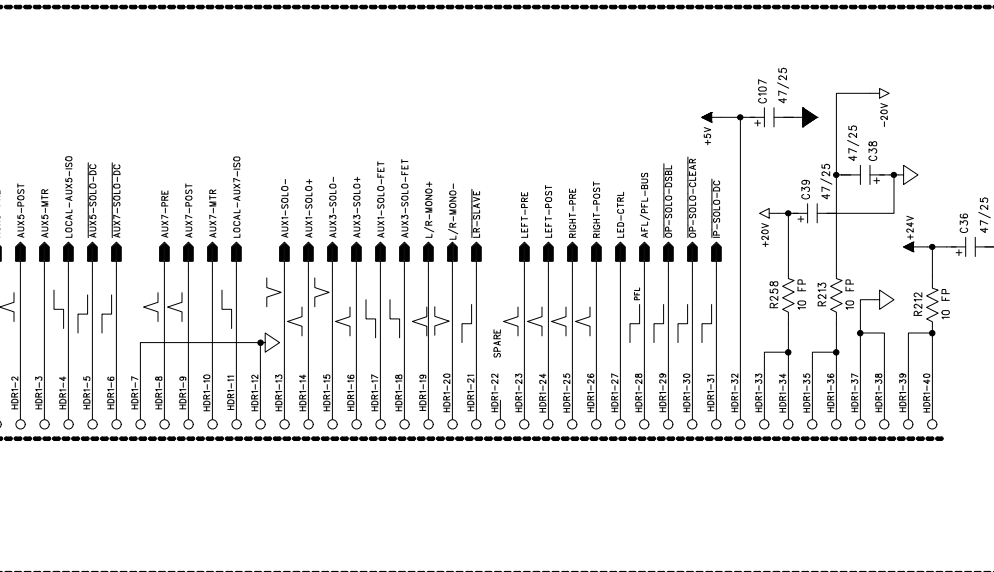
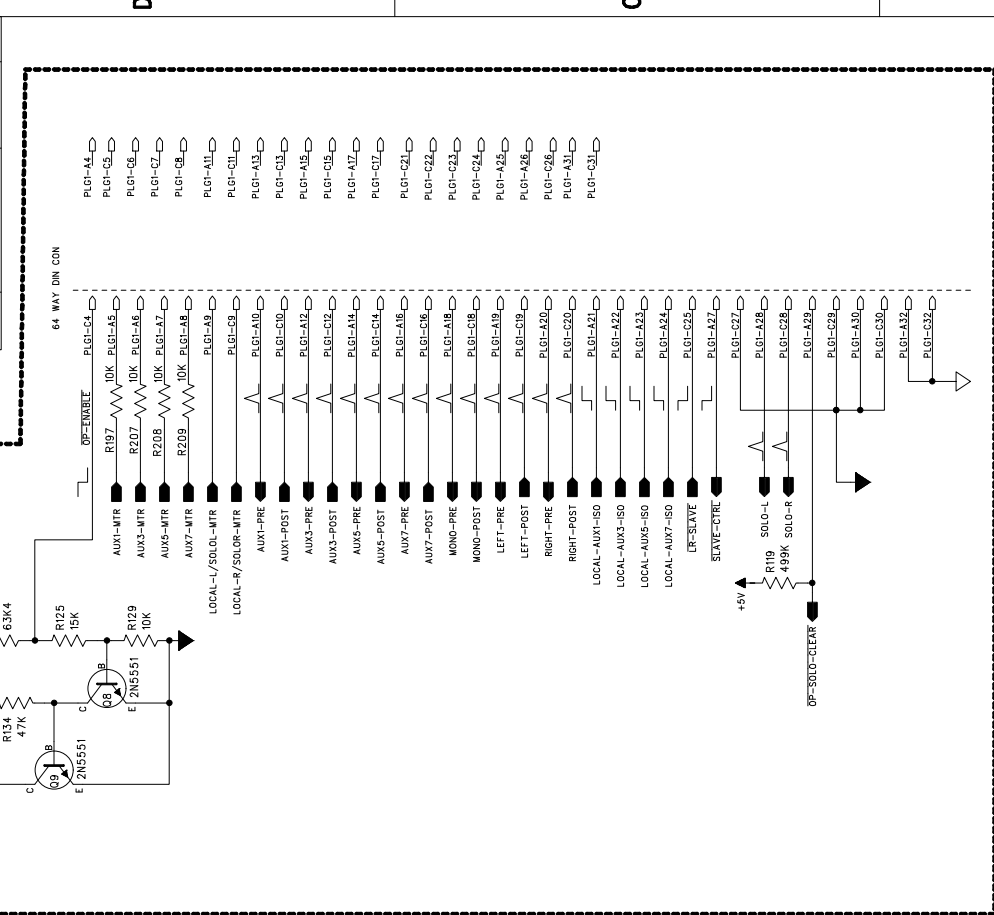
DRAWING NO: **76D4652**

FILE NAME: **V12SMICA.SCH**

SIZE: **D**

CODE:

REVISION RECORD	
LTR	APPROVED: DATE:
ECO NO:	



CRESTAUDIO

V12 SIDECAR MASTER 1 CONNECTOR

COMPANY: TITLE:

ORG DRAWN: TAZ DATE: 11/10/99

CHECKED: DATE:

CUR REV DRAWN: DATE:

RELEASED: DATE:

DATE: 11/10/99

DATE:

DATE:

DATE:

SIZE: D

CODE:

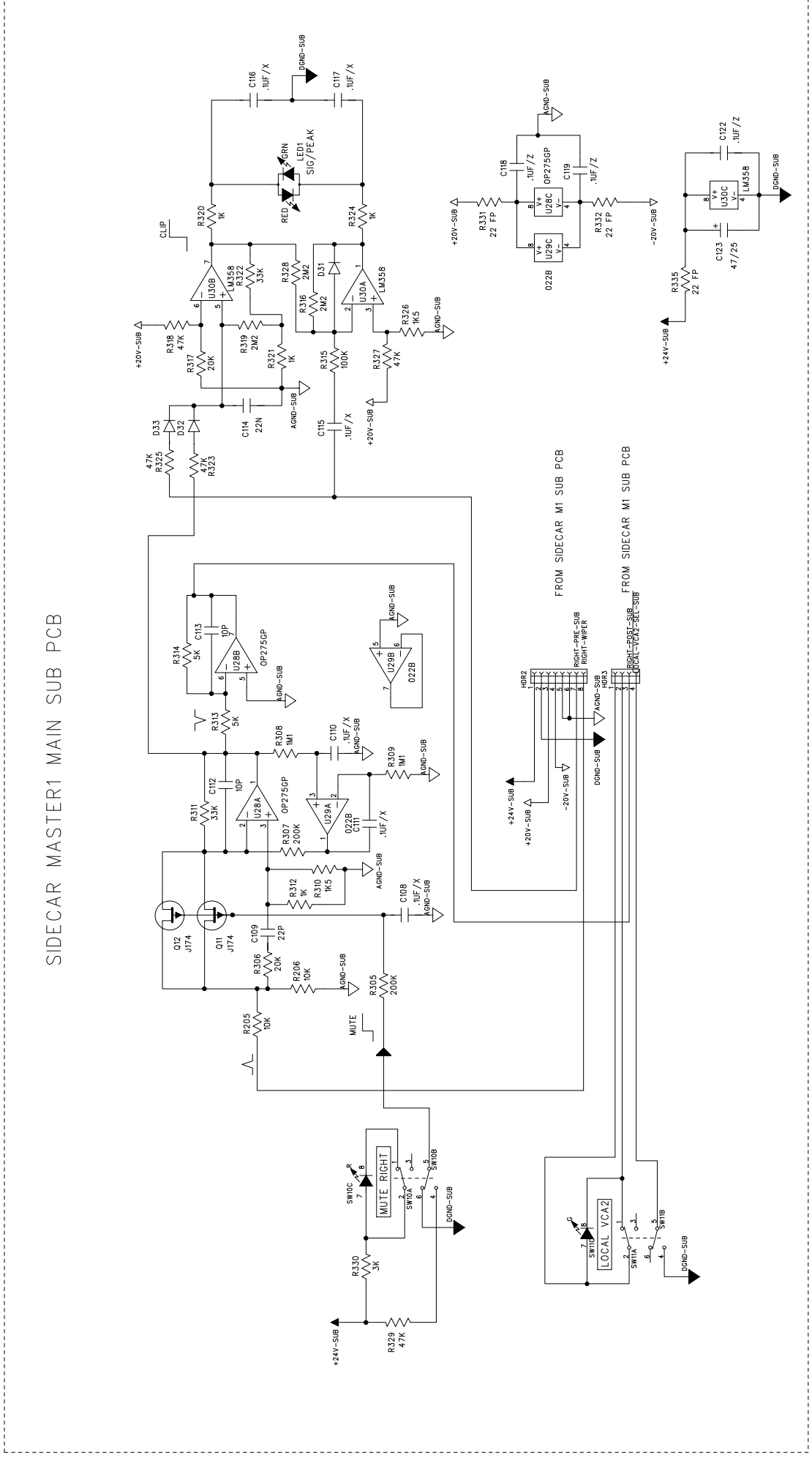
DRAWING NO: 76D4652

FILE NAME: V12SMICA.SCH

REV: A

SCALE: 3 OF 6

REVISION RECORD	
LTR	DATE



SIDECAR MASTER1 MAIN SUB PCB

COMPANY: CRESTAUDIO	
TITLE: V12 SIDECAR MASTER 1 CONNECTOR (SIDECAR MAST1 MAIN SUB PCB)	
ORG DRAWN: TAZ	DATED: 11/10/99
CHECKED:	DATED:
CUR REV DRAWN:	DATED:
RELEASED:	DATED:
CODE: D	DRAWING NO: 76D4652
SIZE: D	FILE NAME: V12SM1CA.SCH
REV: A	SHEET: 4 OF 6

D

C

B

A

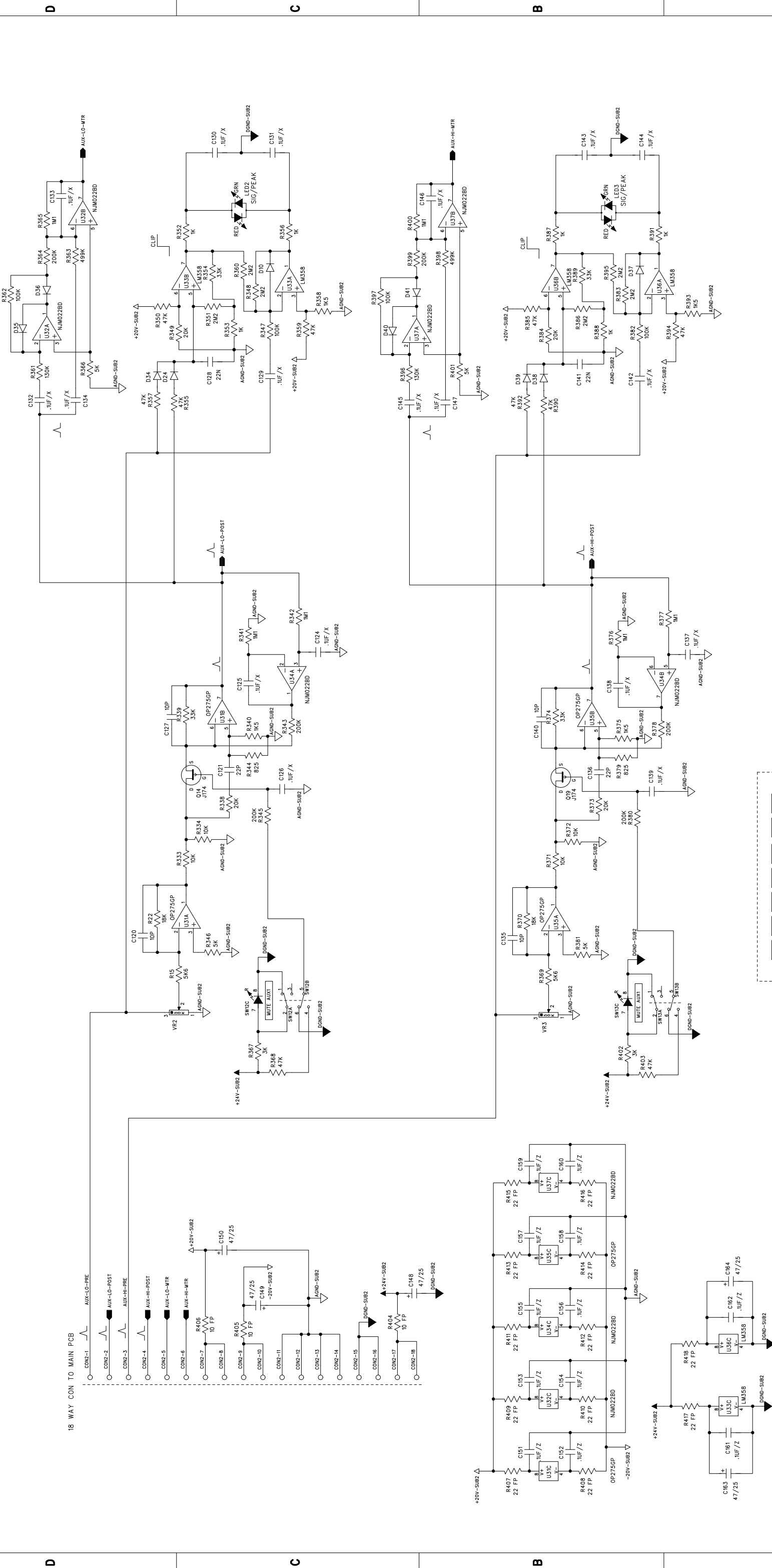
D

C

B

A

REVISION RECORD	
LTR	DATE



CRESTAUDIO

TITLE: V12 SIDECAR MASTER 1 CONNECTOR (SIDECAR MST1 AUX SUB PCB 1)

COMPANY: CRESTAUDIO

ORG DRAWN: TAZ

CHECKED: TAZ

CUR REV DRAWN: TAZ

RELEASED: TAZ

DATED: 11/10/99

DATED: TAZ

DATED: TAZ

DATED: TAZ

SCALE: 5 OF 6

REV: A

DRAWING NO: 76D4652

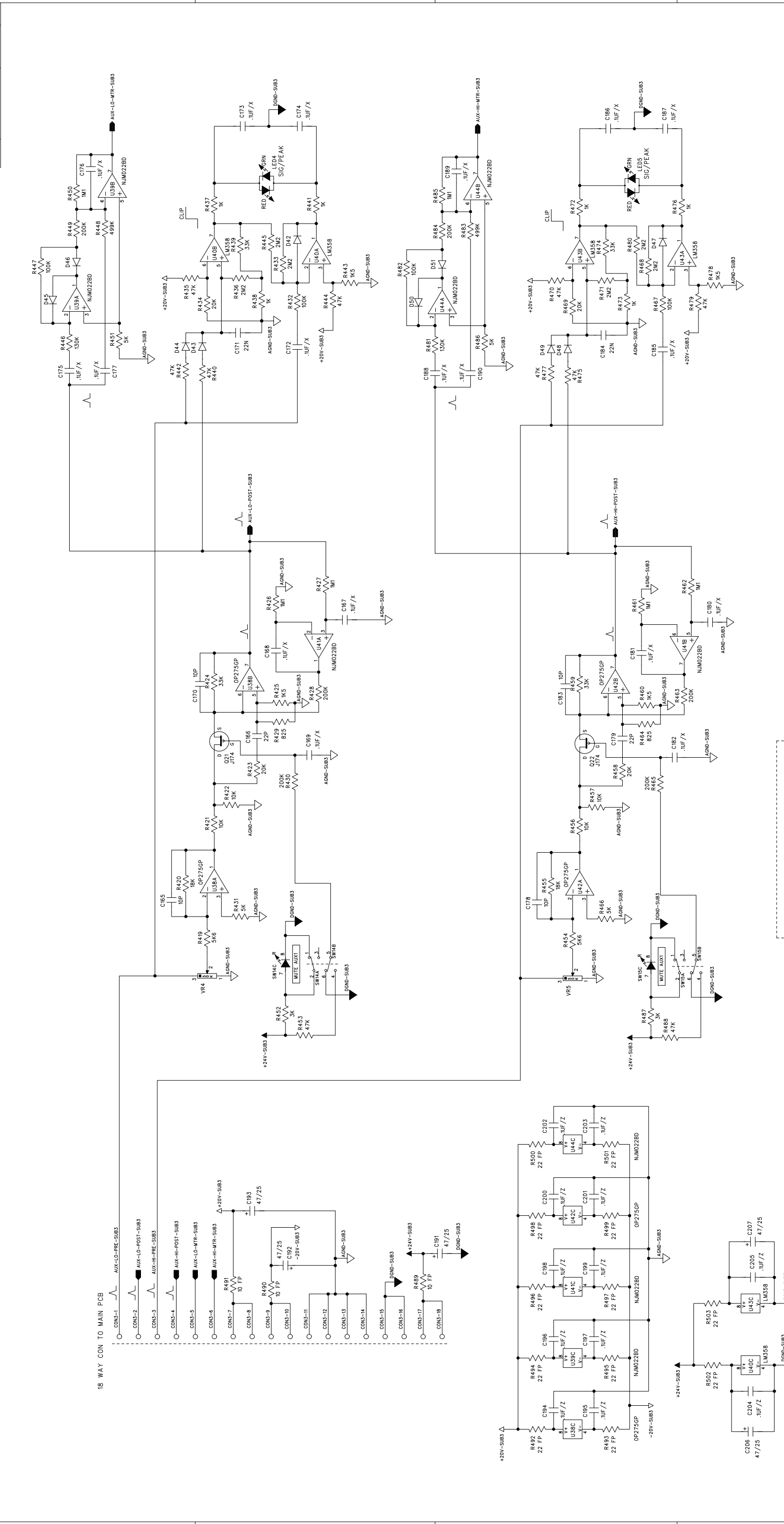
FILE NAME: V12SMICA.SCH

MH4
ST09F/440/790

MH3
ST09F/440/790

MECHANICAL PARTS

- SKT31 DIP 8
- SKT32 DIP 8
- SKT33 DIP 8
- SKT34 DIP 8
- SKT35 DIP 8
- SKT36 DIP 8
- SKT37 DIP 8



CRESTAUDIO

TITLE: V12 SIDECAR MASTER 1 CONNECTOR (SIDECAR MASTER AUX SUB PCB 2)

COMPANY: CRESTAUDIO

ORG DRAWN: TAZ DATED: 11/10/99

CHECKED: DATED:

CUR REV DRAWN: D DATED:

RELEASED: DATED:

DRAWING NO: 76D4652

FILE NAME: V12SMICA.SCH

REV: A

SIZE: D

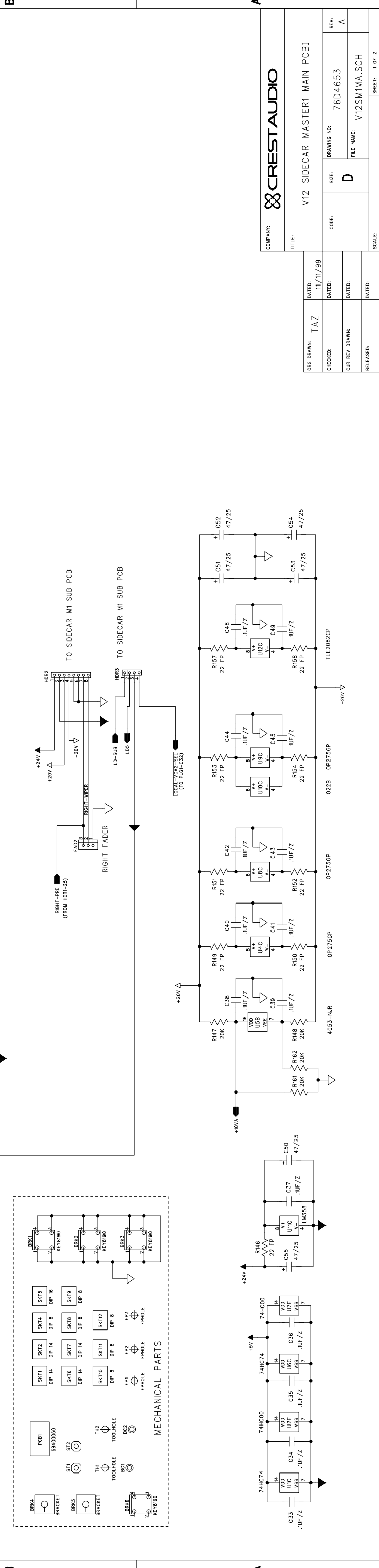
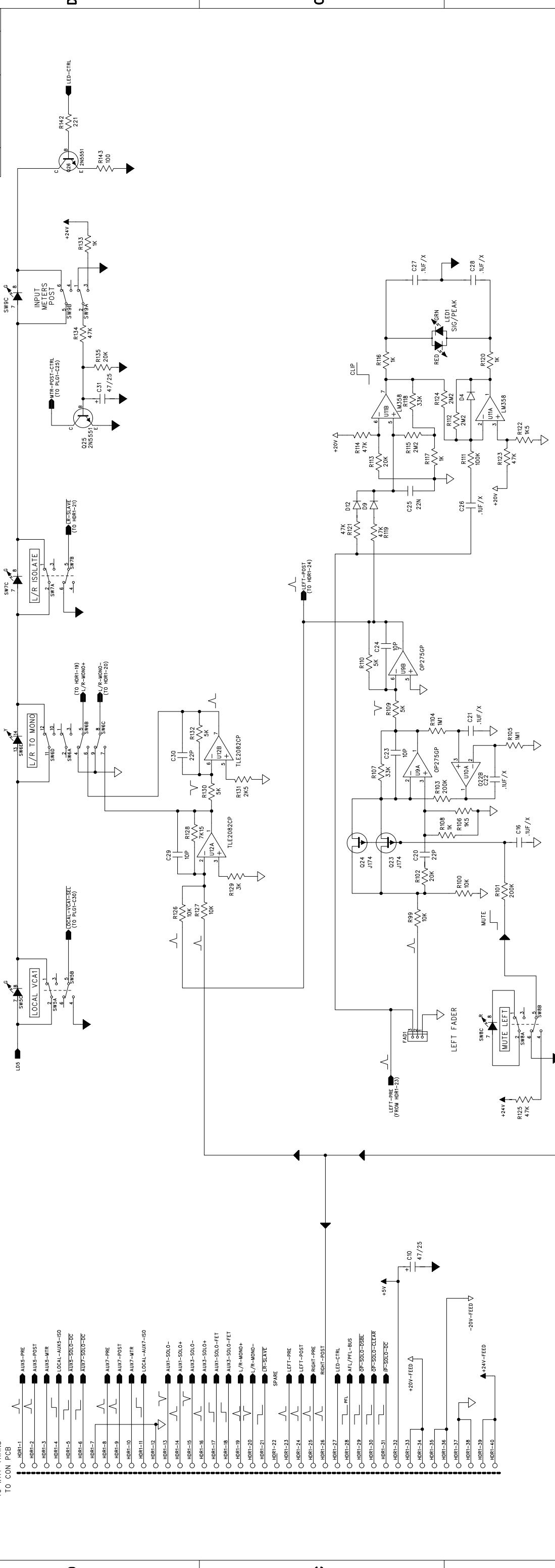
CODE: D

SCALE: 6 OF 6

MECHANICAL PARTS

- SKT138 DIP 8 SKT139 DIP 8 SKT140 DIP 8 SKT141 DIP 8 SKT142 DIP 8 SKT143 DIP 8 SKT144 DIP 8
- SW15C STOFF/440/790
- SW15D STOFF/440/790

REVISION RECORD		DATE:
LTR	ECO NO:	
	APPROVED:	



CRESTAUDIO

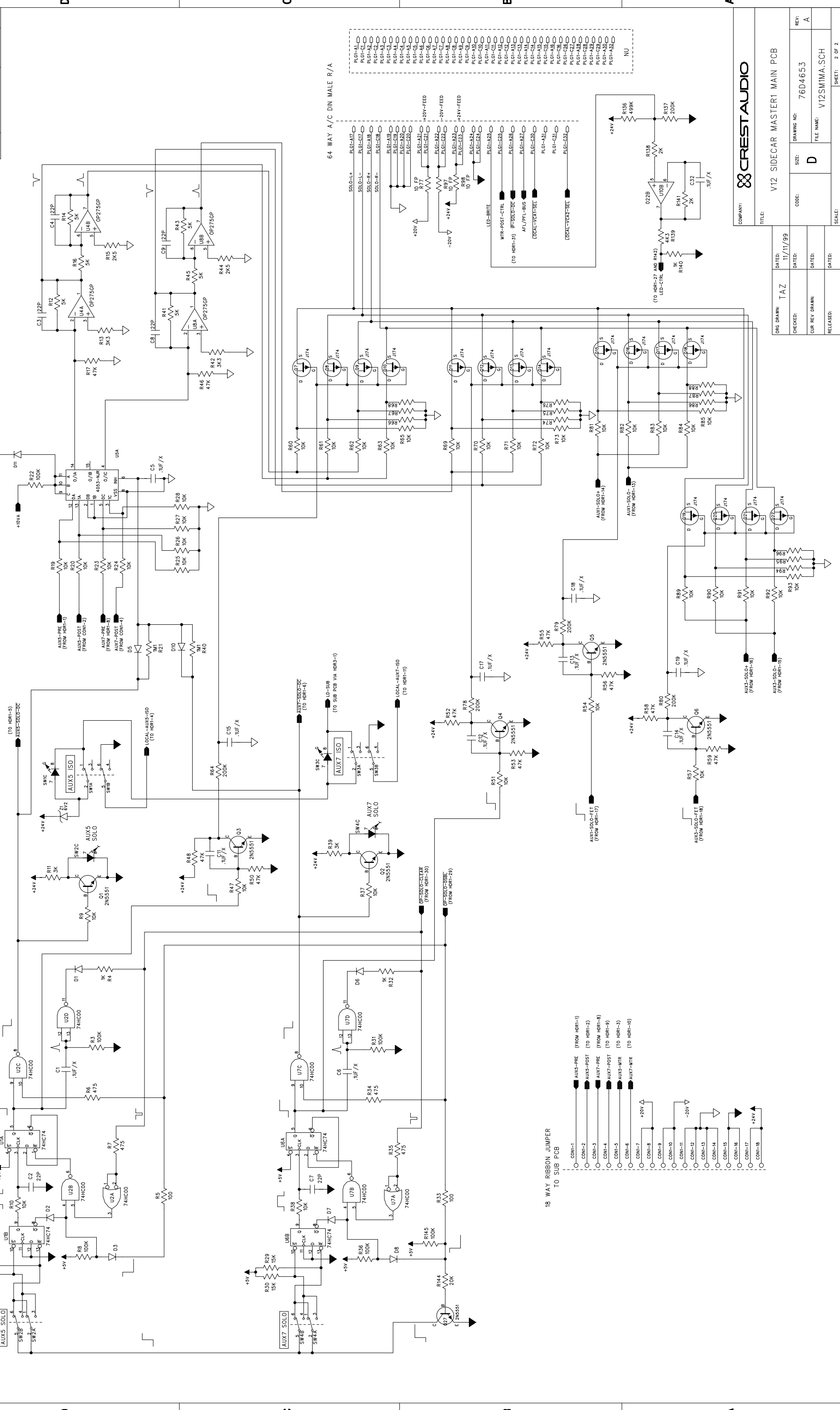
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 TITLE: V12 SIDECAR MASTER MAIN PCB

ORG DRAWN: TAZ
 CHECKED: []
 CUR REV DRAWN: []
 RELEASED: []

DATE: 11/11/99
 DATE: []
 DATE: []
 DATE: []

CODE: []
 SIZE: D
 DRAWING NO: 76D4653
 FILE NAME: V12SM1MA.SCH

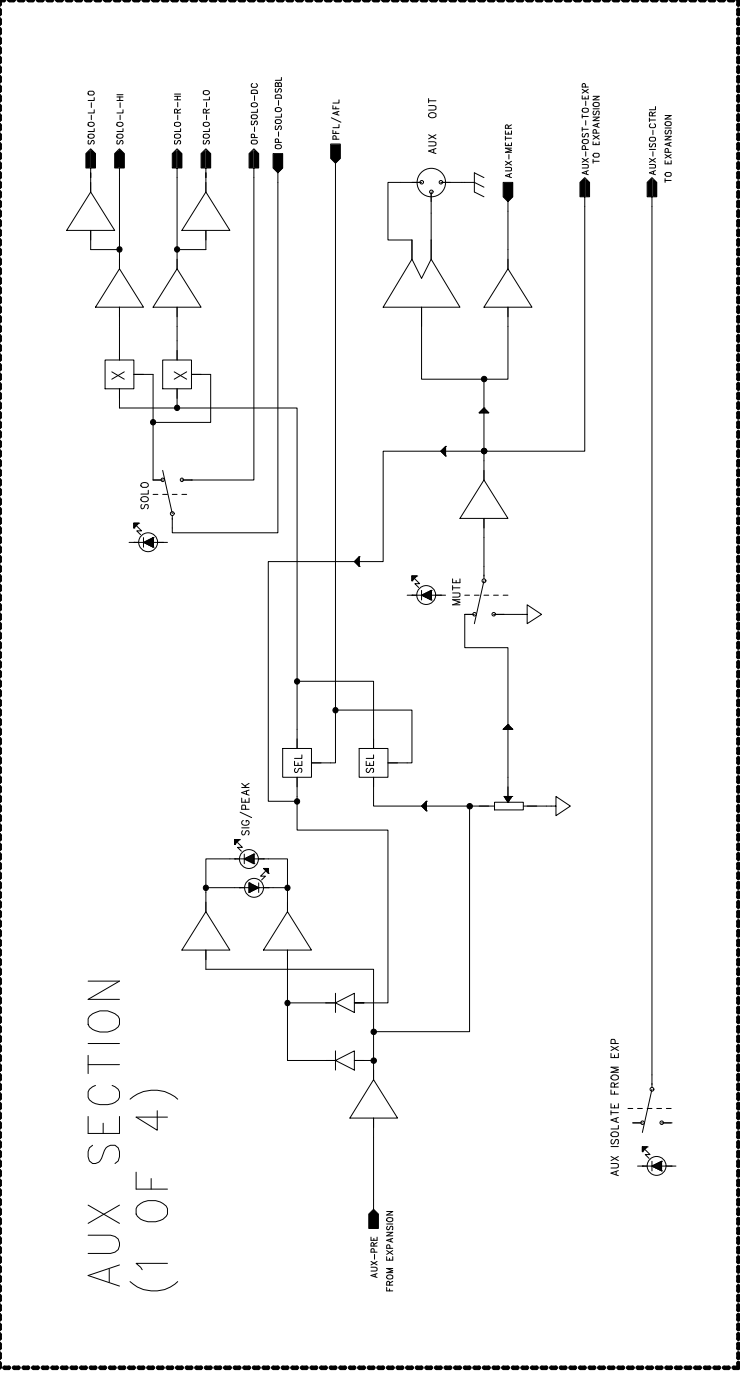
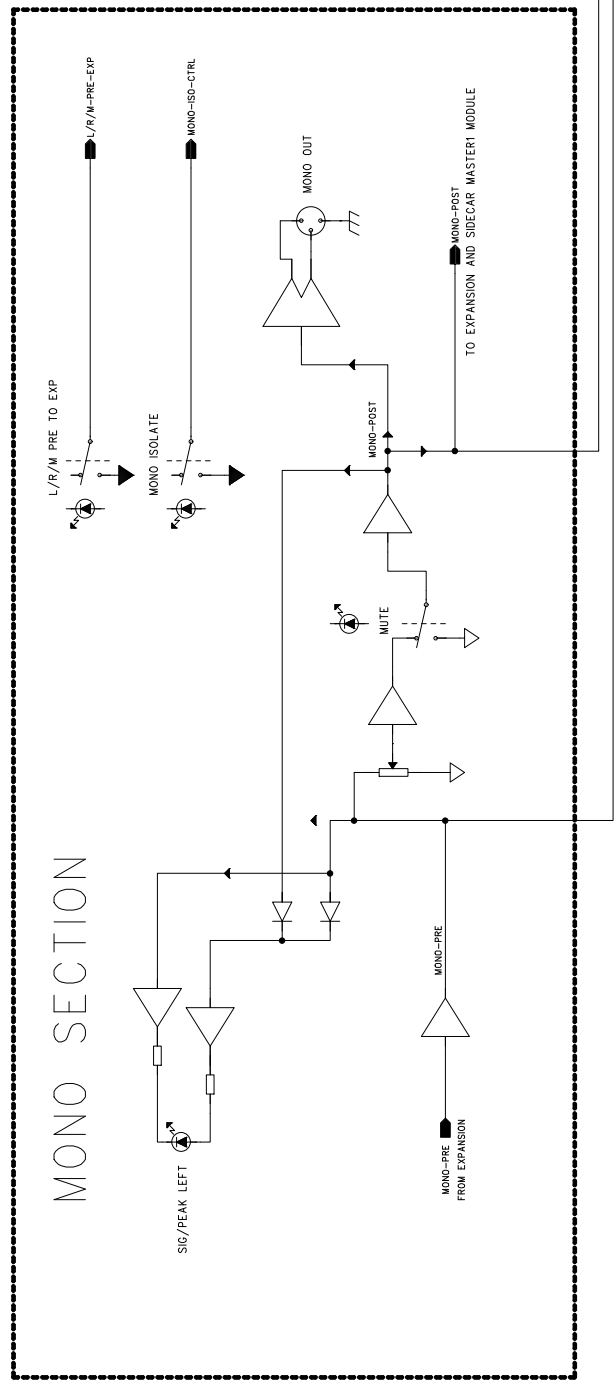
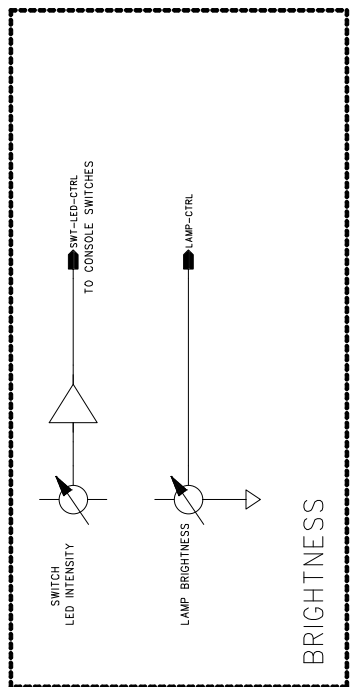
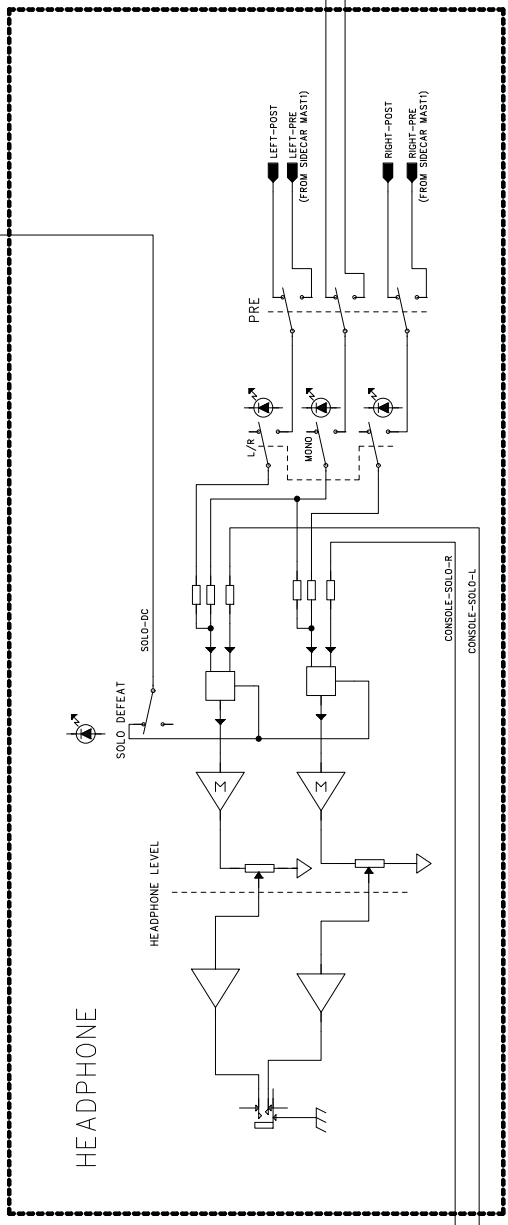
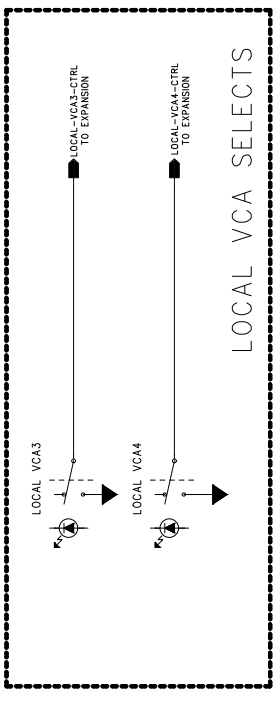
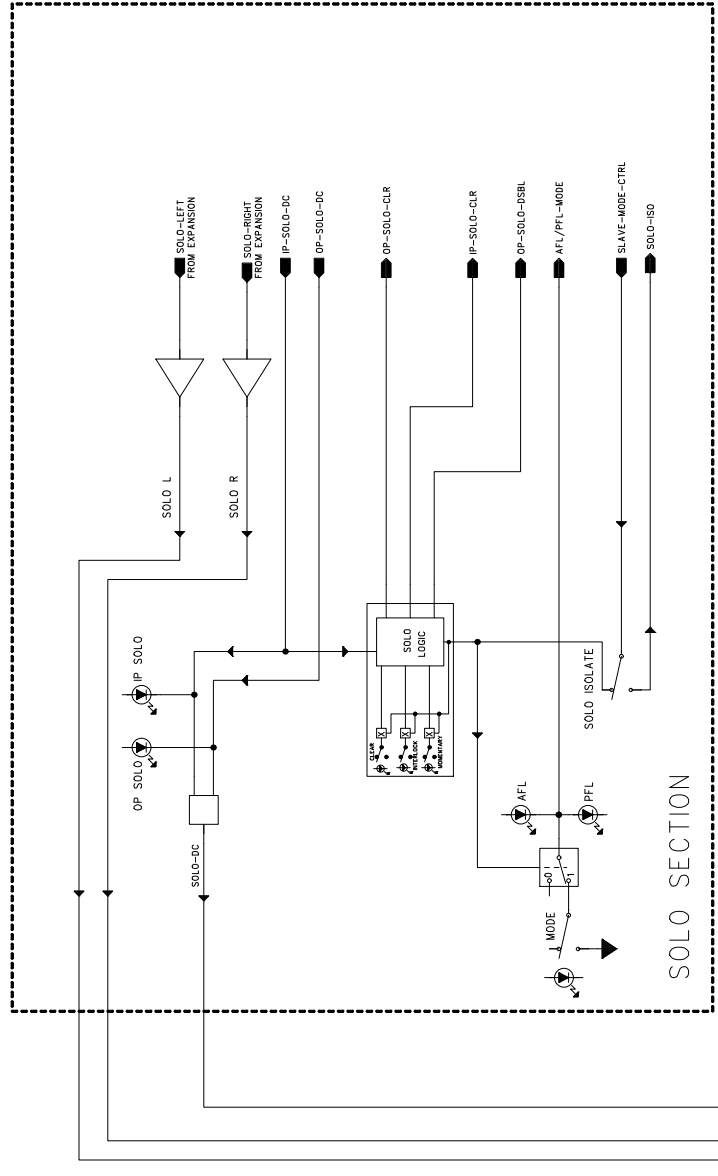
SCALE: 1 OF 2



- 64 WAY A/C DIN MALE R/A
- PLG1-A1
 - PLG1-A2
 - PLG1-A3
 - PLG1-A4
 - PLG1-A5
 - PLG1-A6
 - PLG1-A7
 - PLG1-A8
 - PLG1-A9
 - PLG1-A10
 - PLG1-A11
 - PLG1-A12
 - PLG1-A13
 - PLG1-A14
 - PLG1-A15
 - PLG1-A16
 - PLG1-A17
 - PLG1-A18
 - PLG1-A19
 - PLG1-A20
 - PLG1-A21
 - PLG1-A22
 - PLG1-A23
 - PLG1-A24
 - PLG1-A25
 - PLG1-A26
 - PLG1-A27
 - PLG1-A28
 - PLG1-A29
 - PLG1-A30
 - PLG1-A31
 - PLG1-A32
 - NU

- 18 WAY RIBBON JUMPER TO SUB PCB
- AUX5-PRE (FROM HDR1-1)
 - AUX5-POST (TO HDR1-2)
 - AUX7-PRE (FROM HDR1-3)
 - AUX7-POST (TO HDR1-4)
 - AUX5-MTR (TO HDR1-5)
 - AUX7-MTR (TO HDR1-6)
 - CONN-1
 - CONN-2
 - CONN-3
 - CONN-4
 - CONN-5
 - CONN-6
 - CONN-7
 - CONN-8
 - CONN-9
 - CONN-10
 - CONN-11
 - CONN-12
 - CONN-13
 - CONN-14
 - CONN-15
 - CONN-16
 - CONN-17
 - CONN-18

REVISION RECORD	
LTR	DATE



CRESTAUDIO

COMPANY: CRESTAUDIO
 TITLE: V12 SIDECAR MASTER2 SIG FLOW

ORG DRAWN: TAZ	DATED: 9/99
CHECKED:	DATED:
CUR REV DRAWN:	DATED:
RELEASED:	DATED:

CODE:	SIZE: D	DRAWING NO:	REV:
		FILE NAME: V12SM2BK.SCH	
			SCALE:

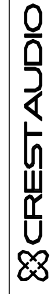
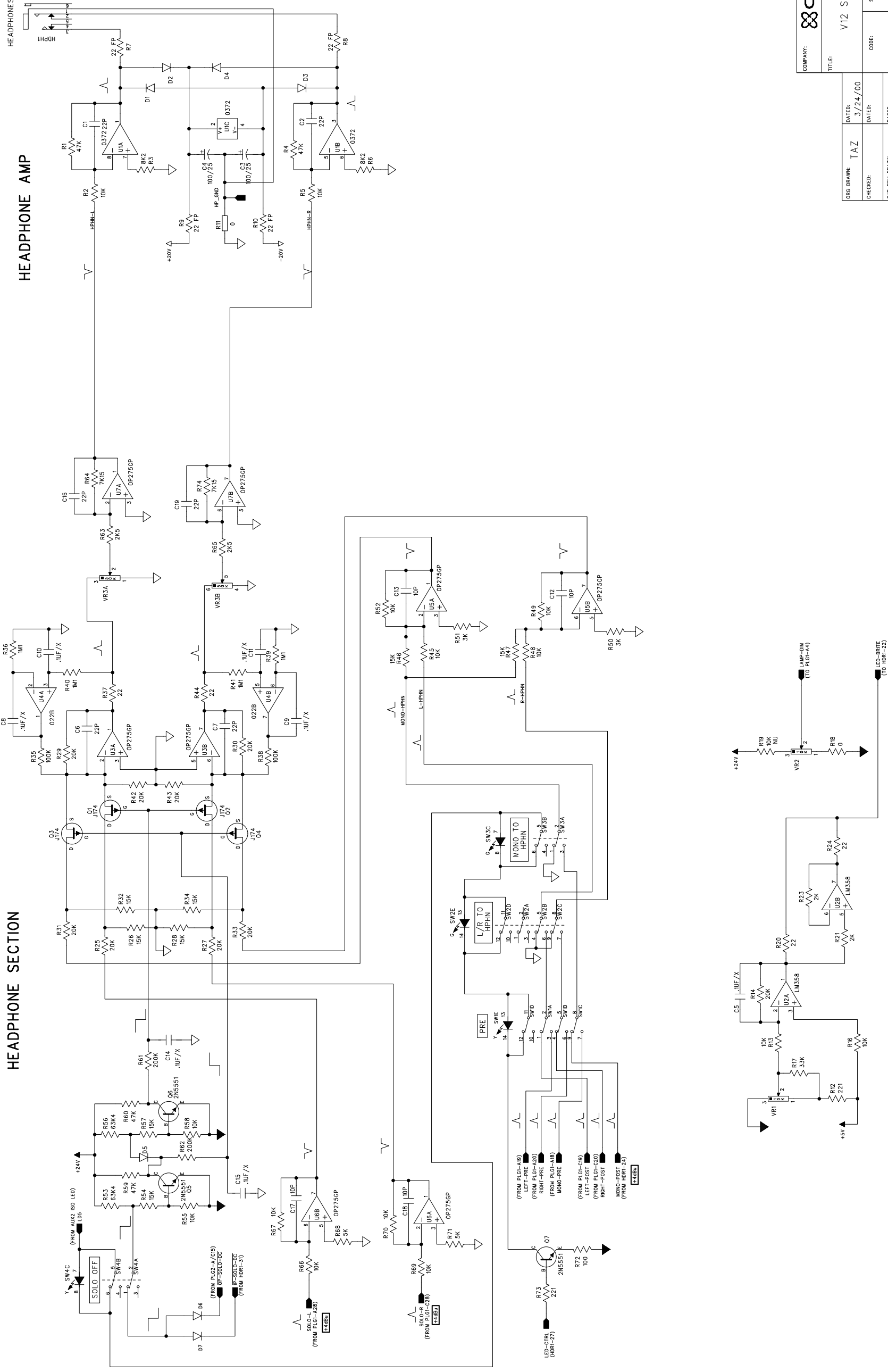
REVISION RECORD		DATE:
LTR	ECO NO:	
	APPROVED:	

HEADPHONE SECTION

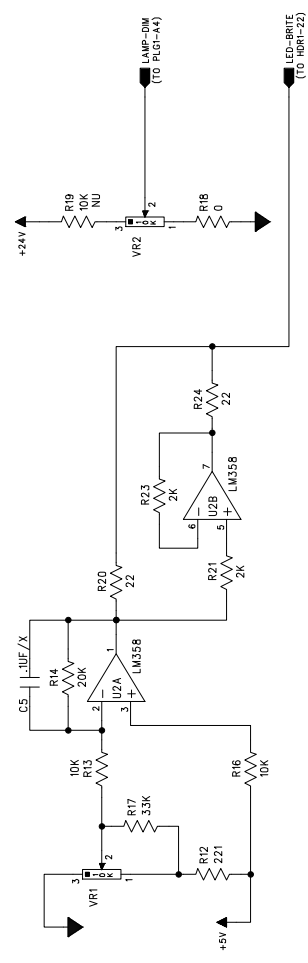
HEADPHONE AMP

HEADPHONES

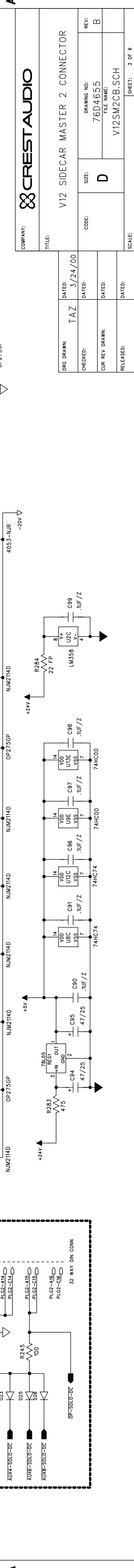
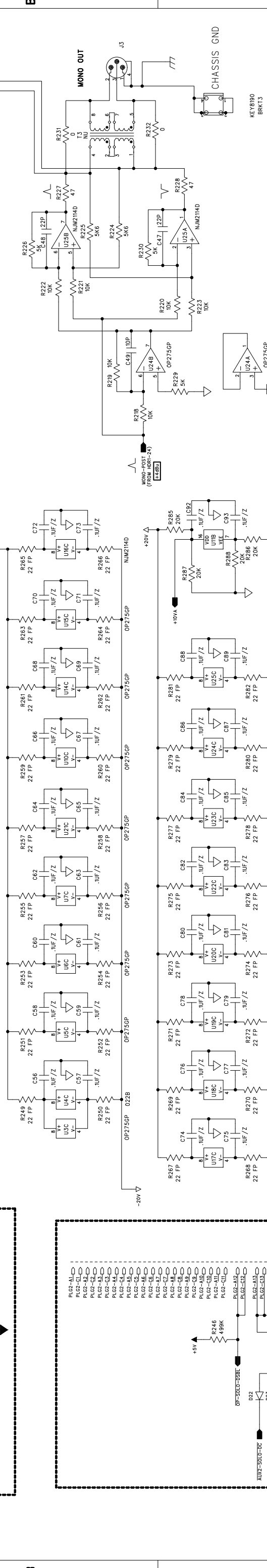
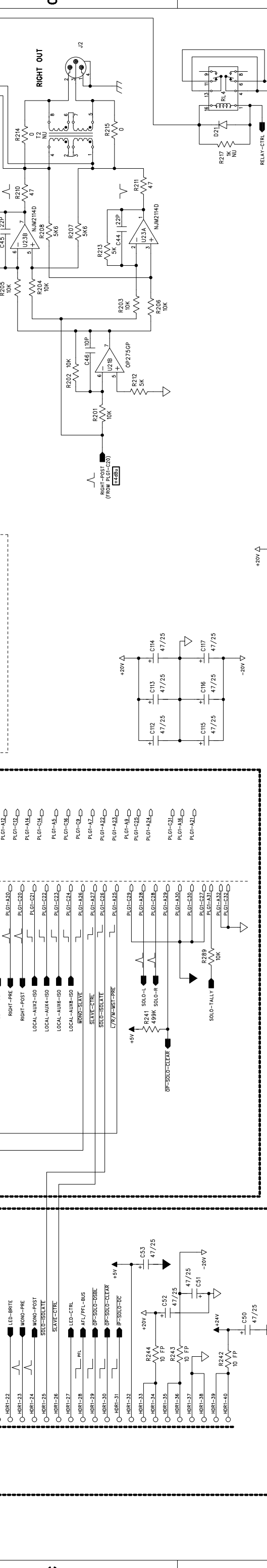
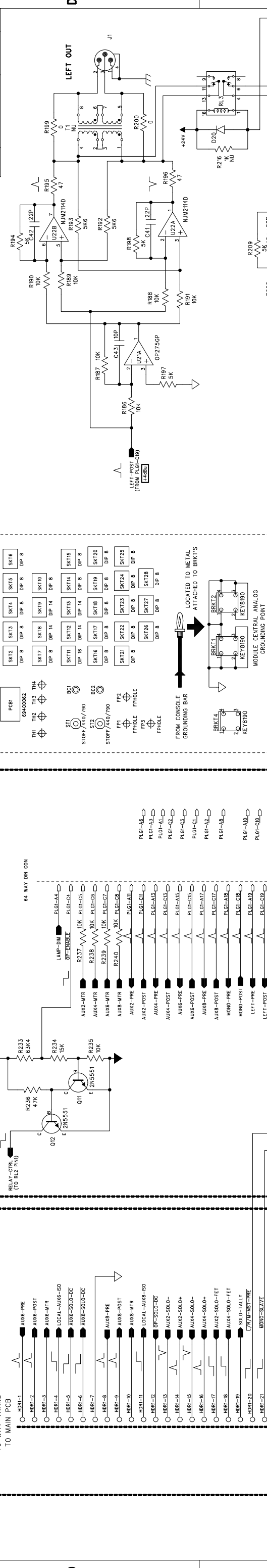
HEAT SINK - DIP8



COMPANY:	CRESTAUDIO		
TITLE:	V12 SIDECAR MASTER 2 CONNECTOR		
ORG DRAWN:	TAZ	DATED:	3/24/00
CHECKED:		DATED:	
CUR REV DRAWN:		DATED:	
RELEASED:		DATED:	
CODE:	D	SIZE:	D
DRIVING NO:	76D4655	REV:	B
FILE NAME:	V12SM2CB.SCH		
SCALE:	SHEET: 1 OF 6		



REVISION RECORD		DATE:
LTR	ECO NO:	



CREST AUDIO

TITLE: V12 SIDECAR MASTER 2 CONNECTOR

COMPANY: CREST AUDIO

DATE: 3/24/00

ORG DRAWN: TAZ

CHECKED: TAZ

DATE: 3/24/00

SIZE: D

CODE: D

REV: B

DRAWING NO: 76D4655

FILE NAME: V12SM2CB.SCH

SCALE: 3 OF 6

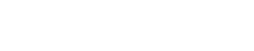
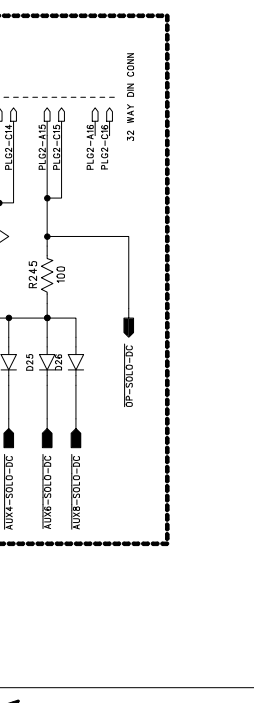
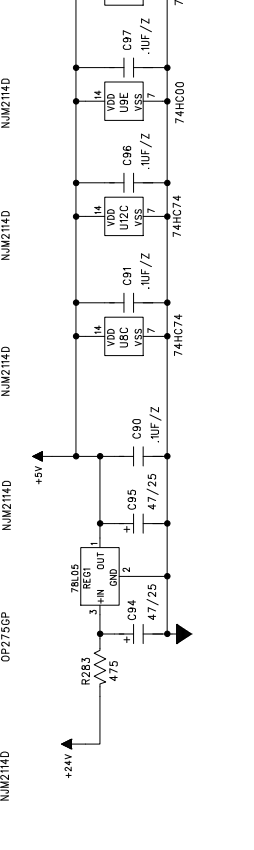
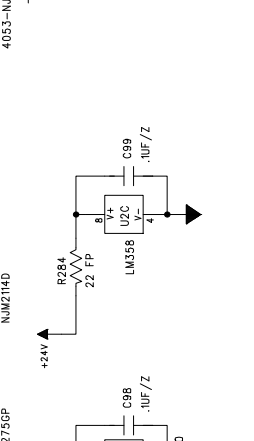
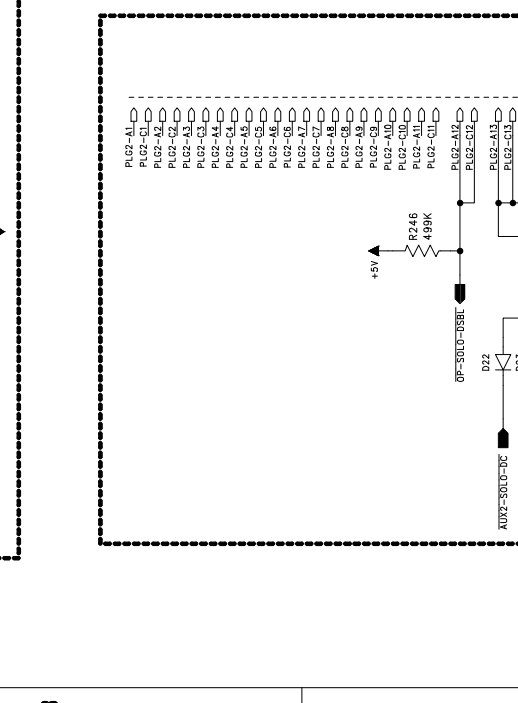
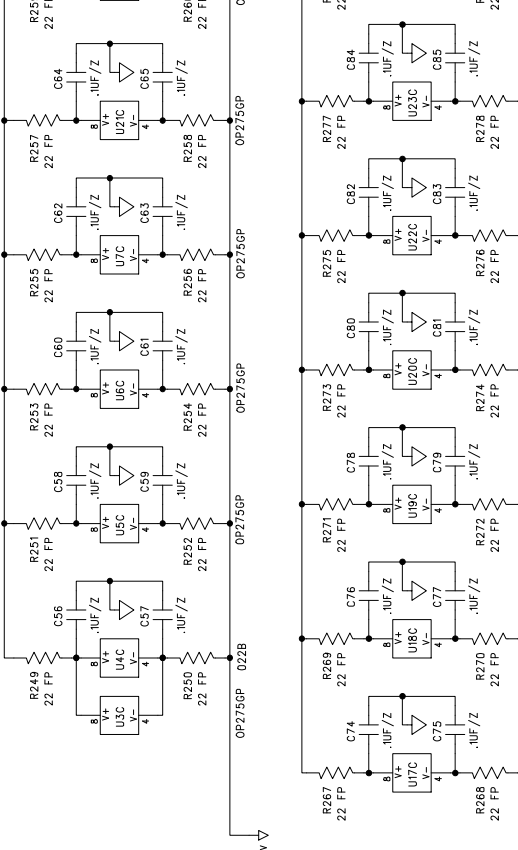
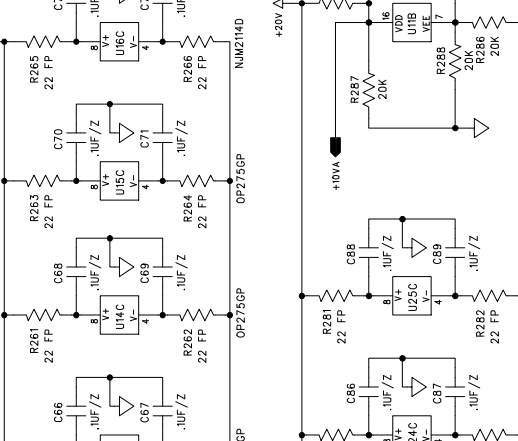
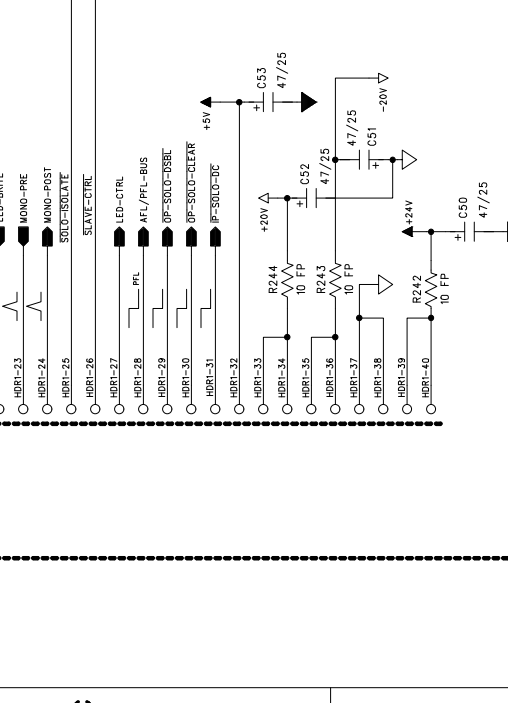
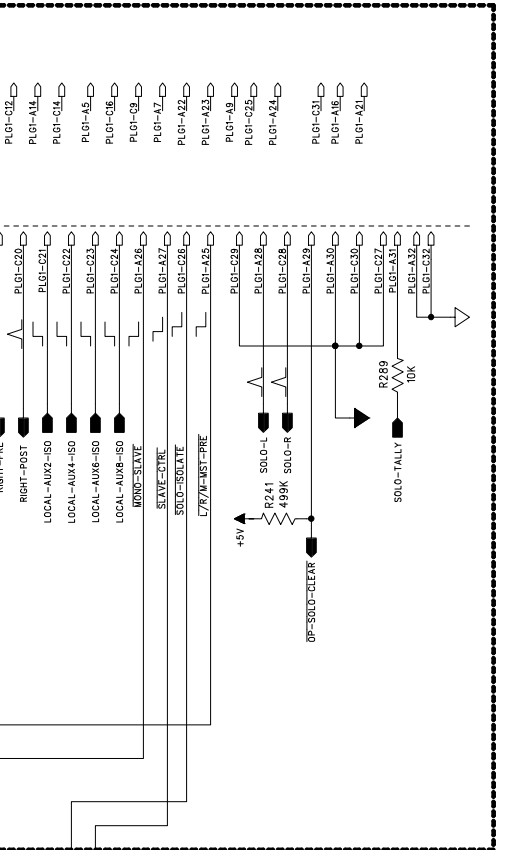
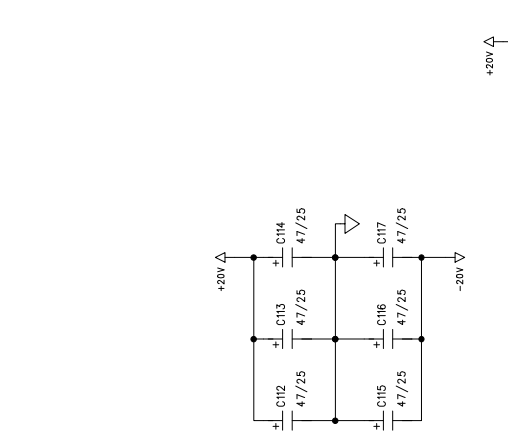
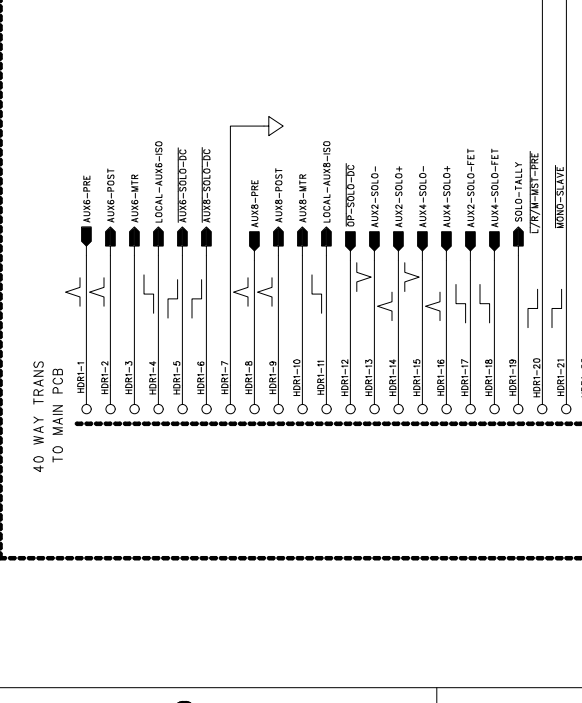
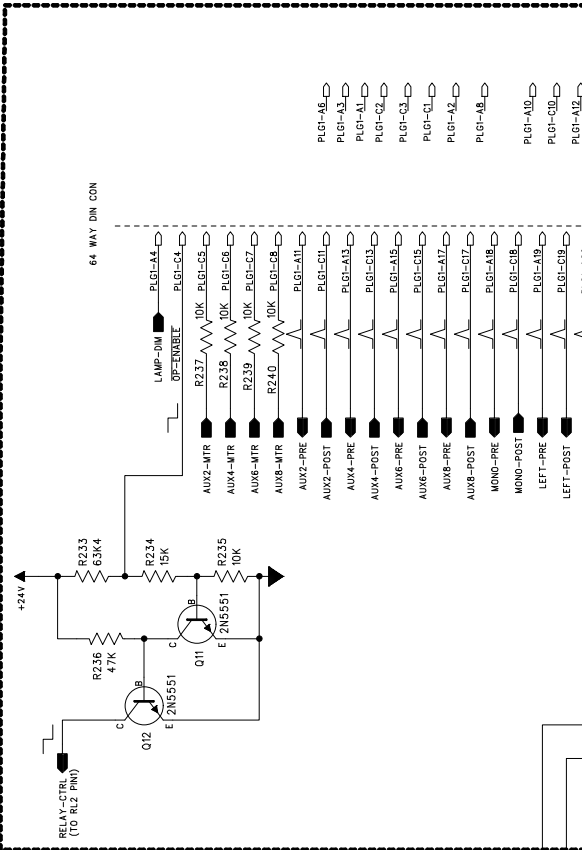
MECHANICAL PARTS

PCB1	TH1	TH2	TH3	TH4	SKT6
8940062	DIP 8	DIP 8	DIP 8	DIP 8	DIP 8
ST1	SKT7	SKT8	SKT9	SKT10	SKT15
ST07F/440/790	DIP 8	DIP 14	DIP 14	DIP 8	DIP 8
BC1	SKT11	SKT12	SKT13	SKT14	SKT20
BC2	DIP 8	DIP 14	DIP 14	DIP 8	DIP 8
FP1	SKT16	SKT17	SKT18	SKT19	SKT24
FP2	DIP 8	DIP 8	DIP 8	DIP 8	DIP 8
FP3	SKT21	SKT22	SKT23	SKT24	SKT25
FPHOLE	DIP 8	DIP 8	DIP 8	DIP 8	DIP 8
FPHOLE	SKT26	SKT27	SKT28	SKT29	SKT30
FPHOLE	DIP 8	DIP 8	DIP 8	DIP 8	DIP 8

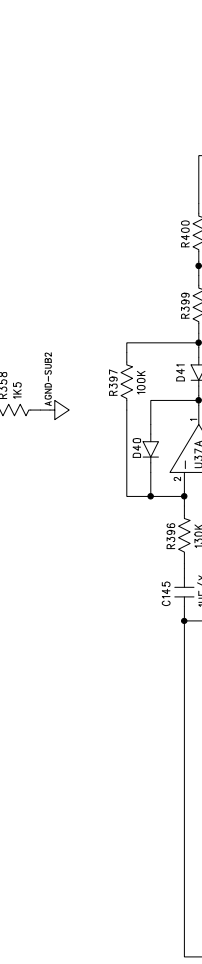
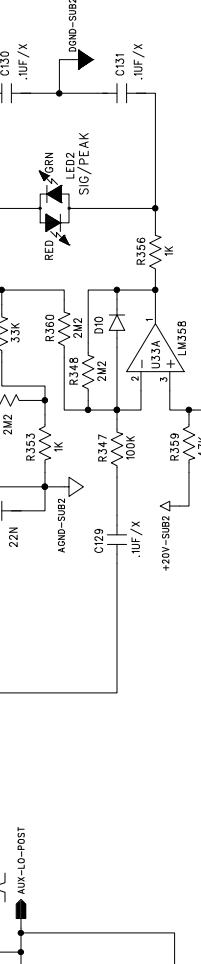
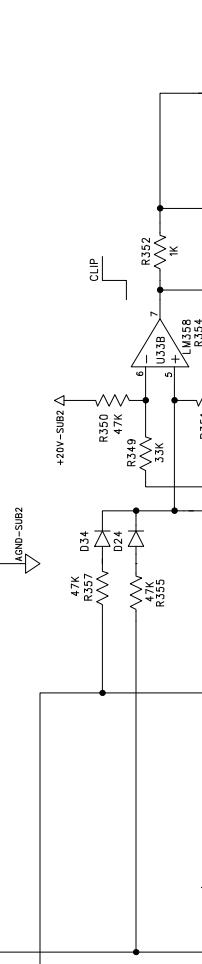
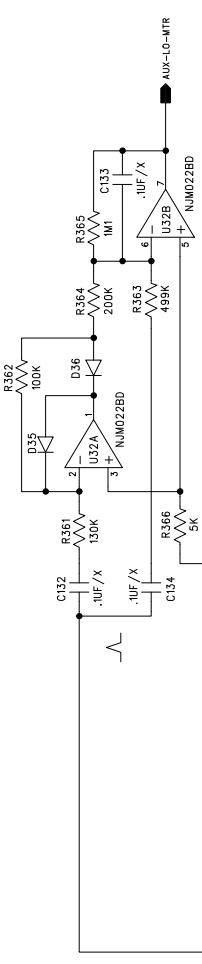
LOCATED TO METAL ATTACHED TO BRKT3

FROM CONSOLE GROUNDING BAR

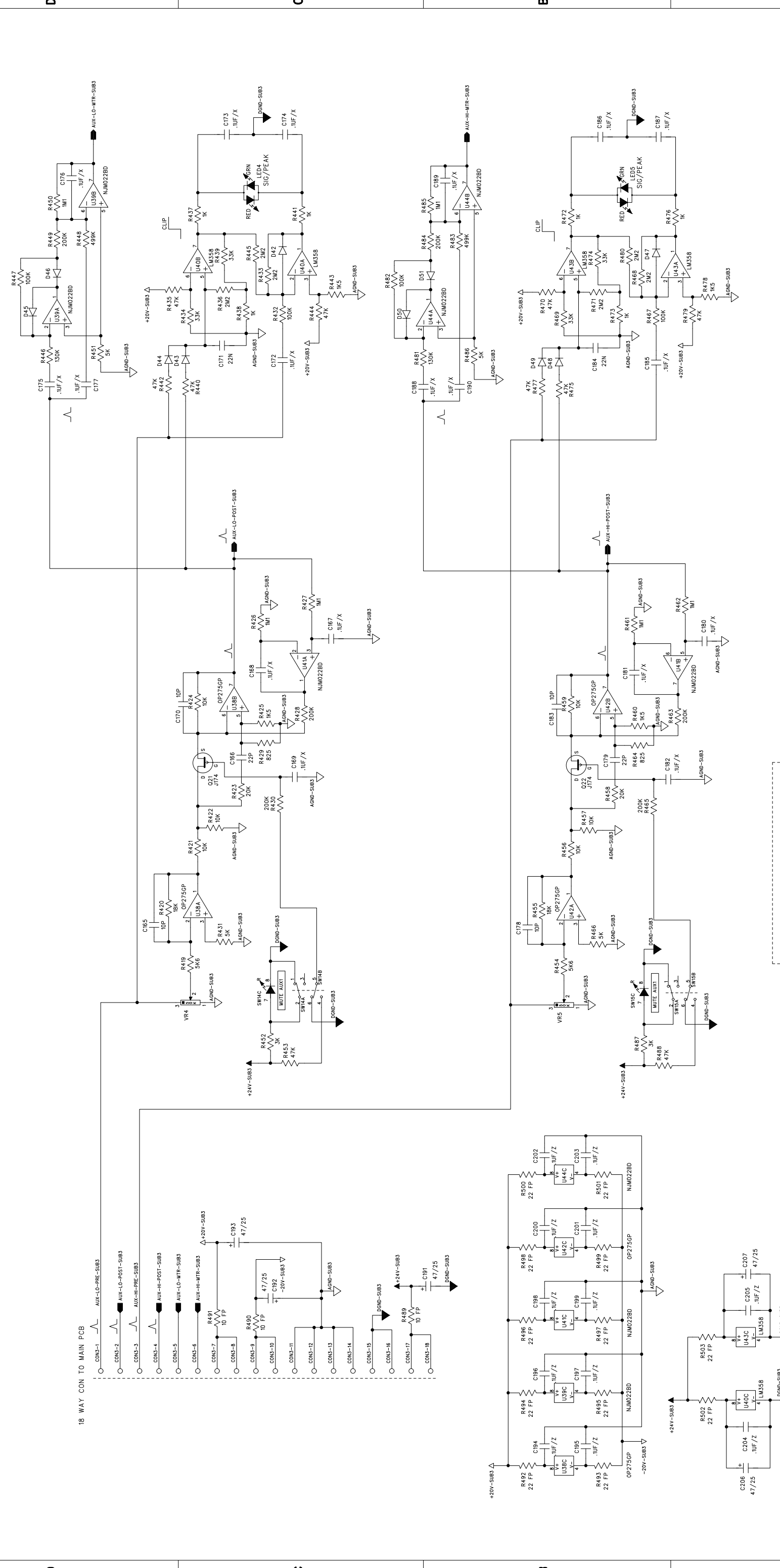
MODULE CENTRAL ANALOG GROUNDING POINT



REVISION RECORD	
LTR	DATE



REVISION RECORD	
LTR	DATE



CRESTAUDIO

TITLE: V12 SIDECAR MASTER 2 CONNECTOR (SIDECAR MST2 AUX SUB PCB 2)

COMPANY: CRESTAUDIO

DATE: 3/24/00

ORG DRAWN: TAZ

CHECKED:

CUR REV DRAWN:

RELEASED:

DRAWING NO: 76D4655

FILE NAME: V12SM2CB.SCH

SIZE: D

CODE:

SCALE:

SHEET: 6 OF 6

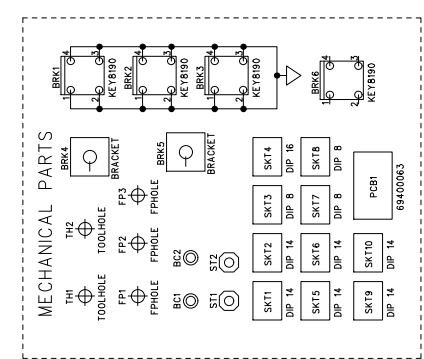
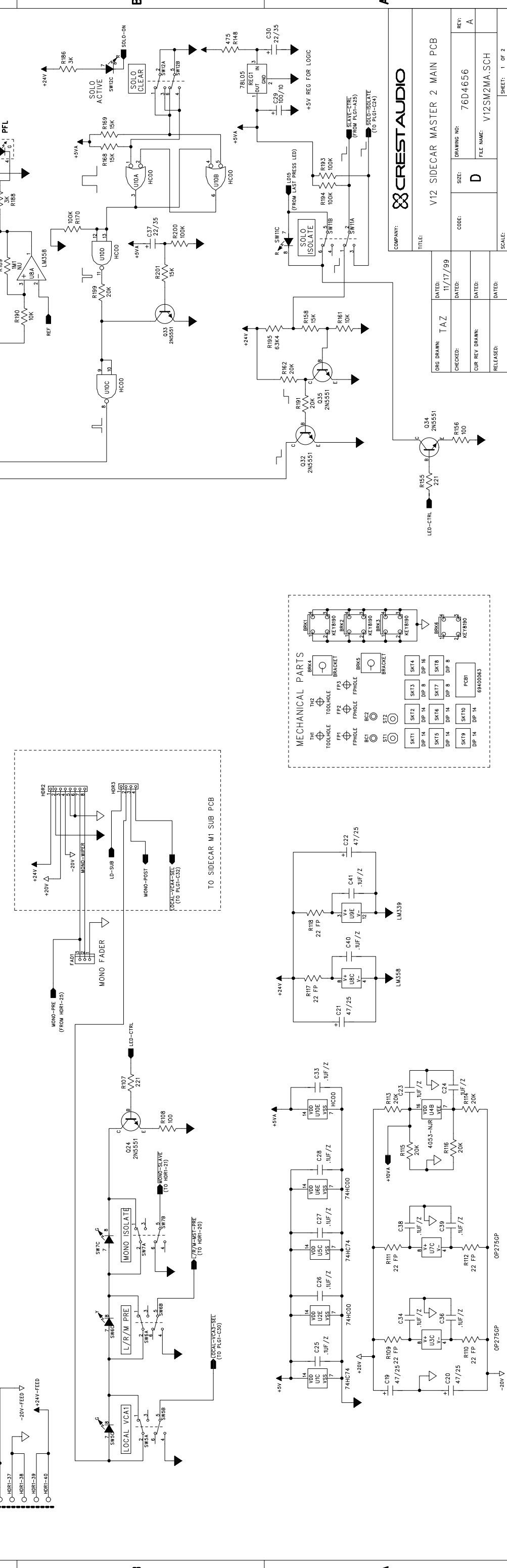
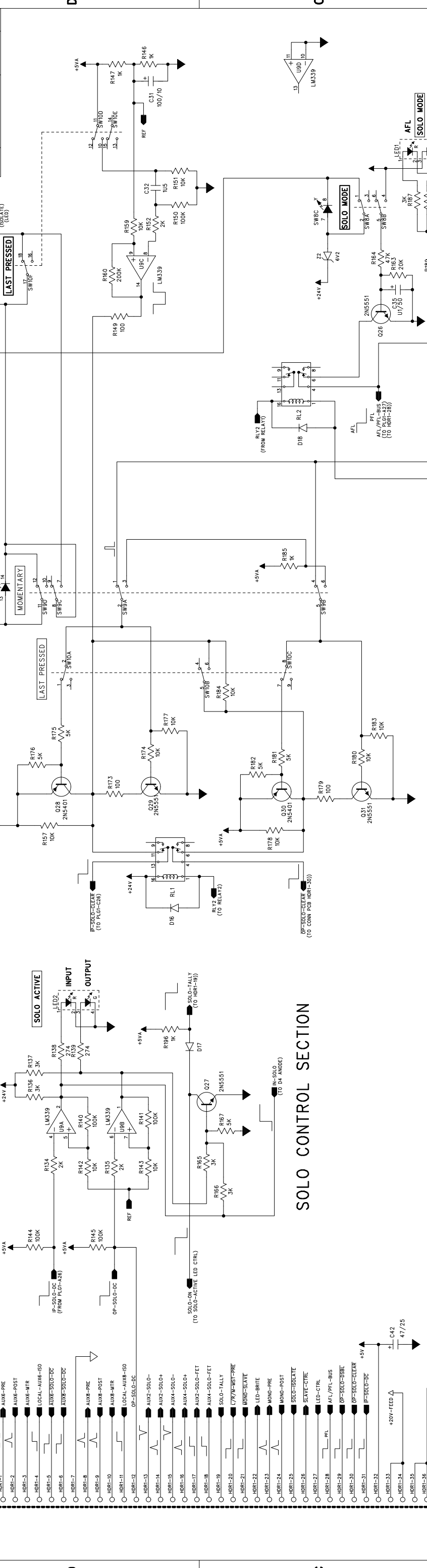
MECHANICAL PARTS

SKT138	SKT139	SKT140	SKT141	SKT142	SKT143	SKT144
DIP 8	DIP 8	DIP 8	DIP 8	DIP 8	DIP 8	DIP 8

ST0FF/440/790

ST0FF/440/790

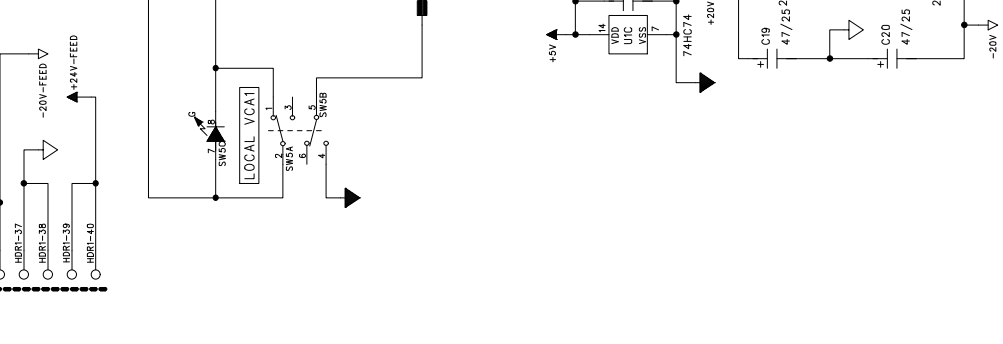
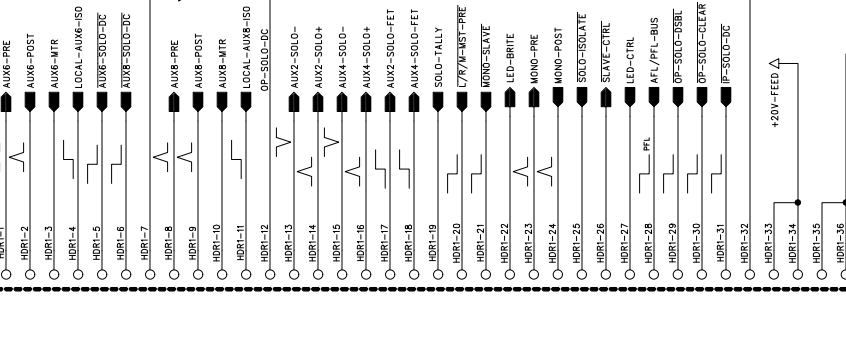
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LTR	ECO NO:	

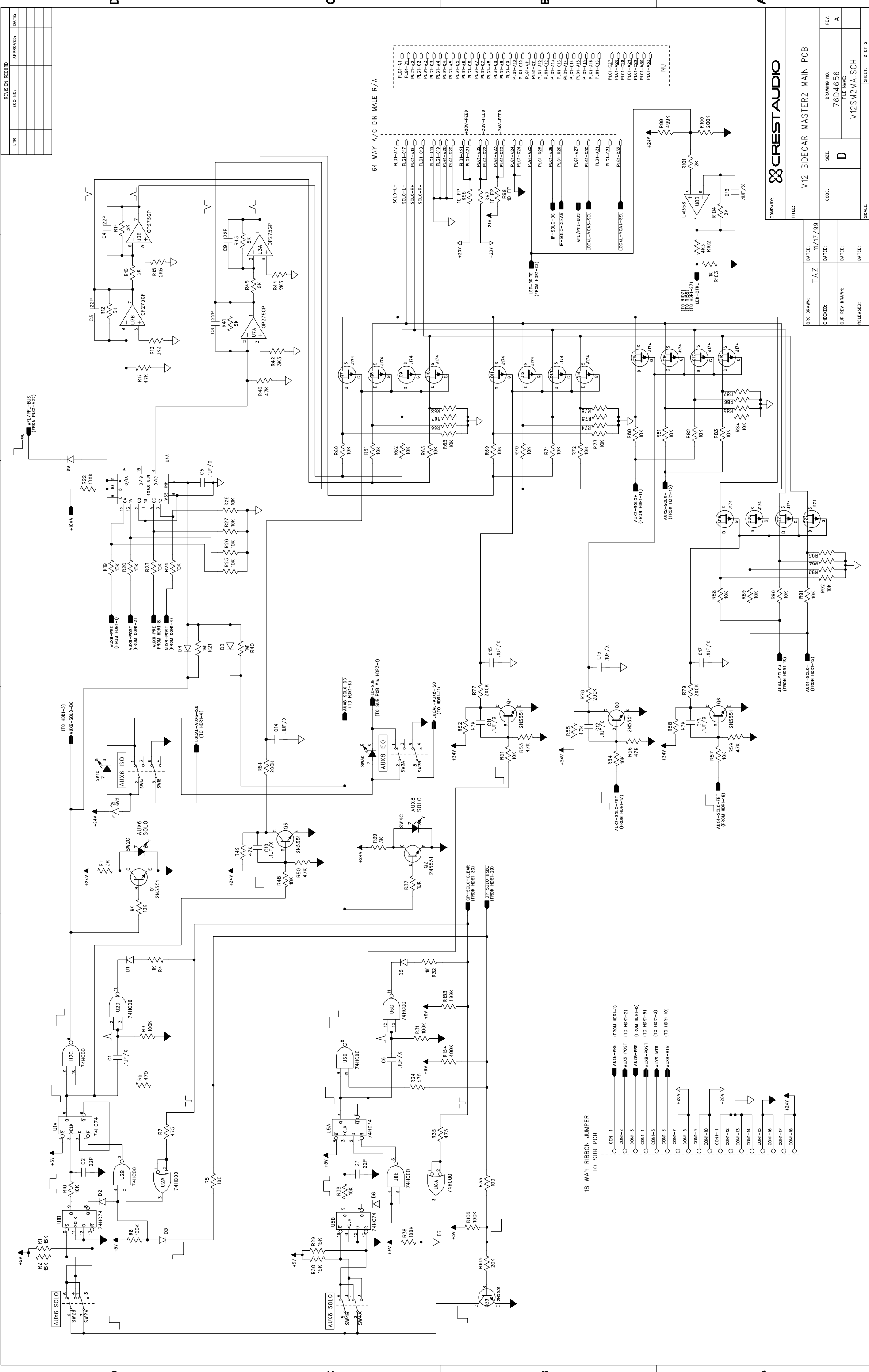


CRESTAUDIO

COMPANY: CRESTAUDIO
 TITLE: V12 SIDECAR MASTER 2 MAIN PCB
 ORG DRAWN: TAZ
 CHECKED: TAZ
 CUR REV DRAWN: TAZ
 RELEASED: TAZ
 DATED: 11/17/99
 CODE: D
 DRAWING NO: 76D4656
 FILE NAME: V12SM2MA.SCH
 SCALE: 1 OF 2

40 WAY TRANS TO CONN PCB





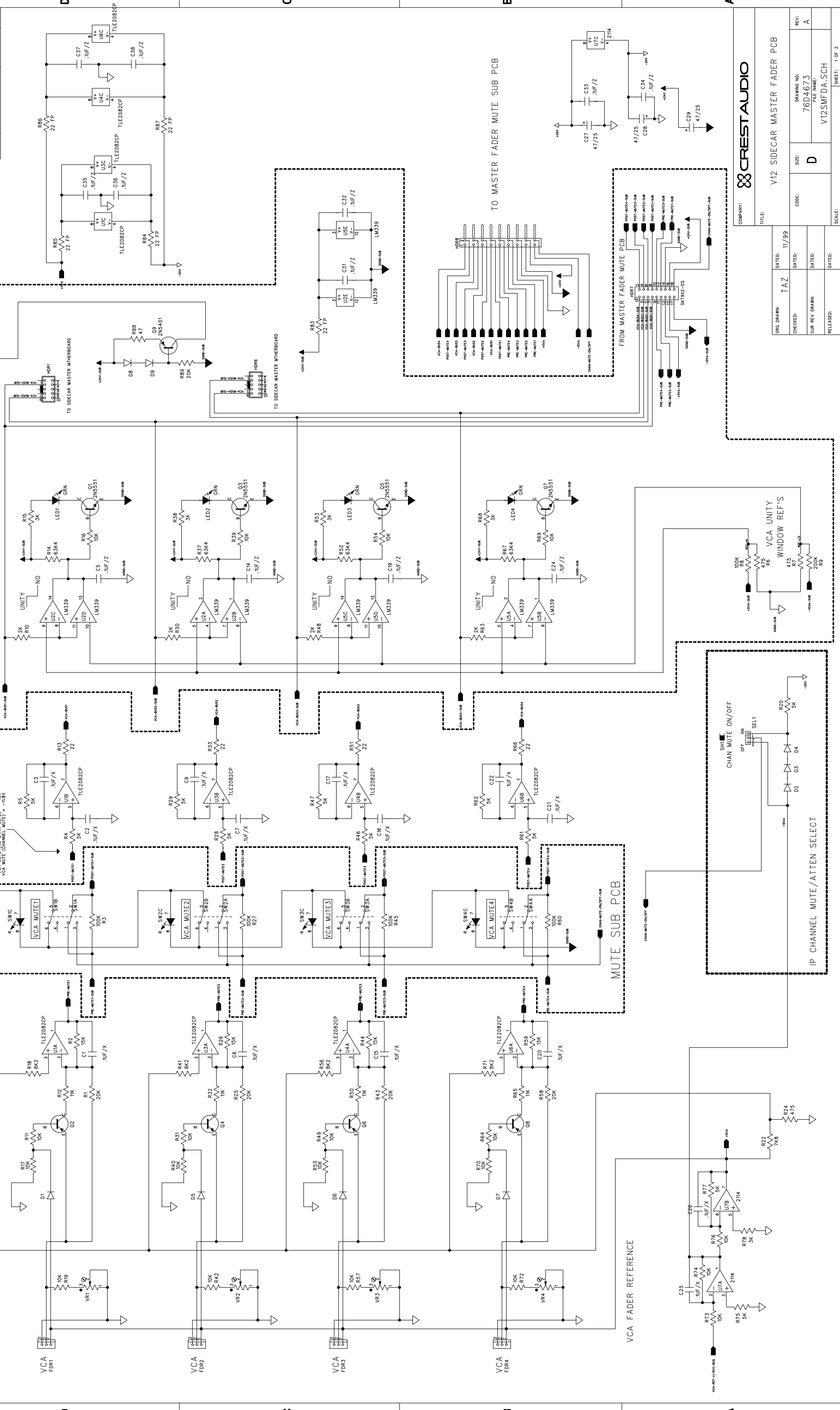
REVISION RECORD	
LTR	DATE

COMPANY: CRESTAUDIO	
TITLE: V12 SIDECAR MASTER2 MAIN PCB	
ORG DRAWN: T.A.Z.	DATE: 11/17/99
CHECKED: 	DATE:
CUR REV DRAWN: 	DATE:
RELEASED: 	DATE:
CODE: D	SIZE: D
DRAWING NO: 76D4656	REV: A
FILE NAME: V12SM2MA.SCH	
SCALE: 	SHEET: 2 OF 2

- PLG1-A1
- PLG1-A2
- PLG1-A3
- PLG1-A4
- PLG1-A5
- PLG1-A6
- PLG1-A7
- PLG1-A8
- PLG1-A9
- PLG1-A10
- PLG1-A11
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- PLG1-A98
- PLG1-A99
- PLG1-A100
- NU

- CONN-1
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- CONN-14
- CONN-15
- CONN-16
- CONN-17
- CONN-18

REVISION RECORD		DATE:
LTR	ECO NO:	
	APPROVED:	



CRESTAUDIO

TITLE: V12 SIDECAR MASTER FADER PCB

COMPANY: CRESTAUDIO

ORG DRAWN: TAZ

CHECKED: TAZ

CUR REV DRAWN: TAZ

RELEASED: TAZ

DATE: 11/99

DATE: 11/99

DATE: 11/99

DATE: 11/99

SIZE: D

CODE: D

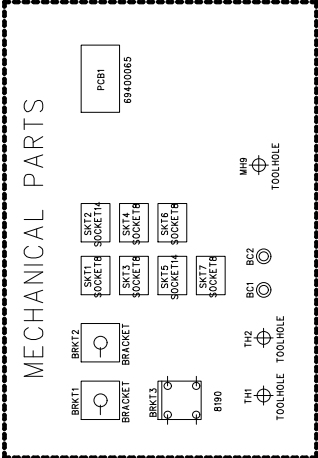
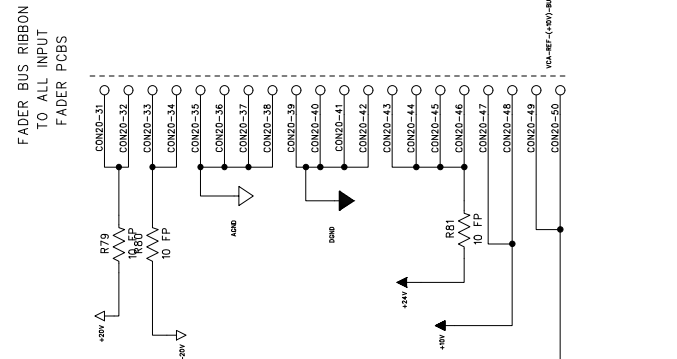
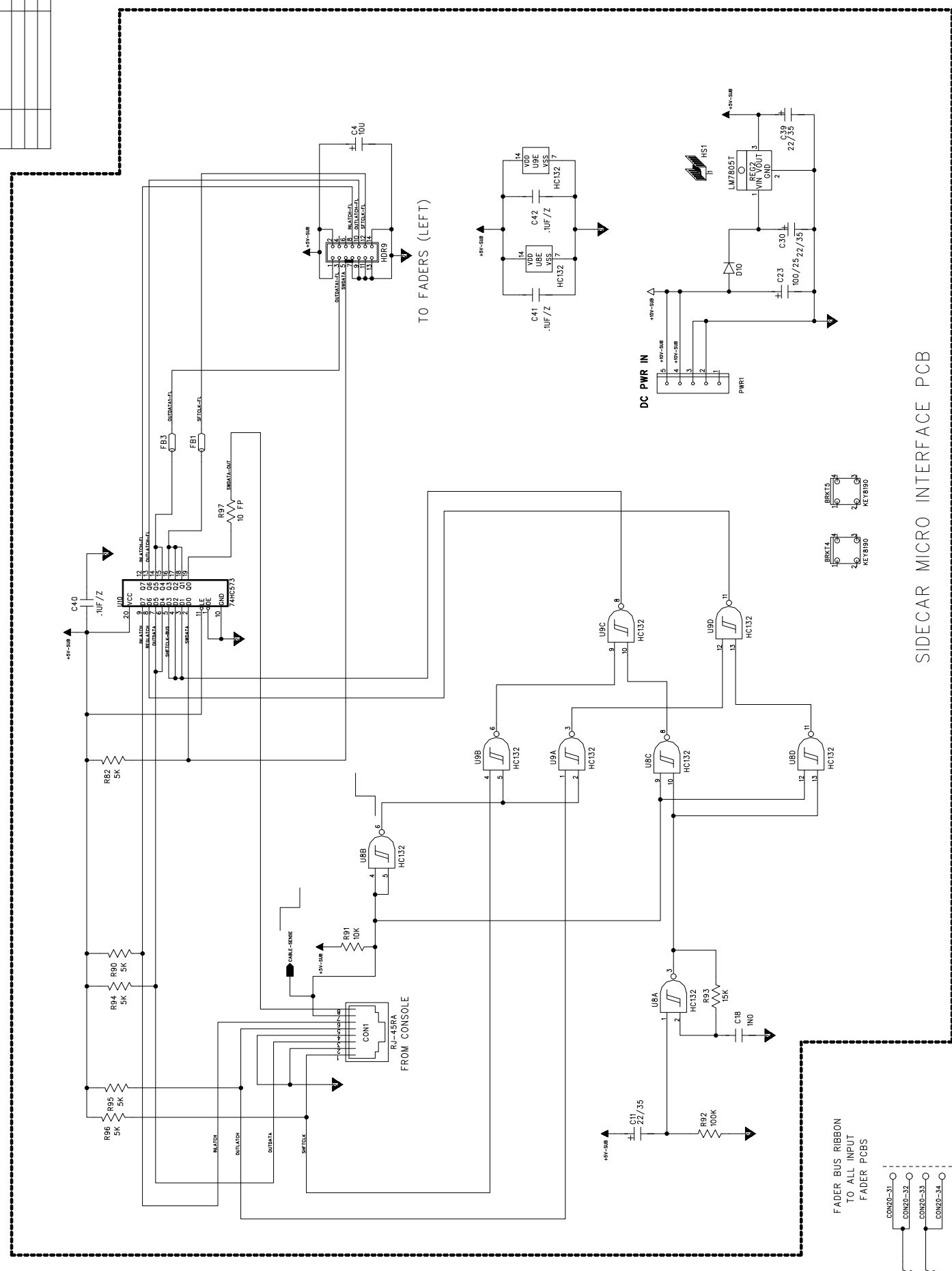
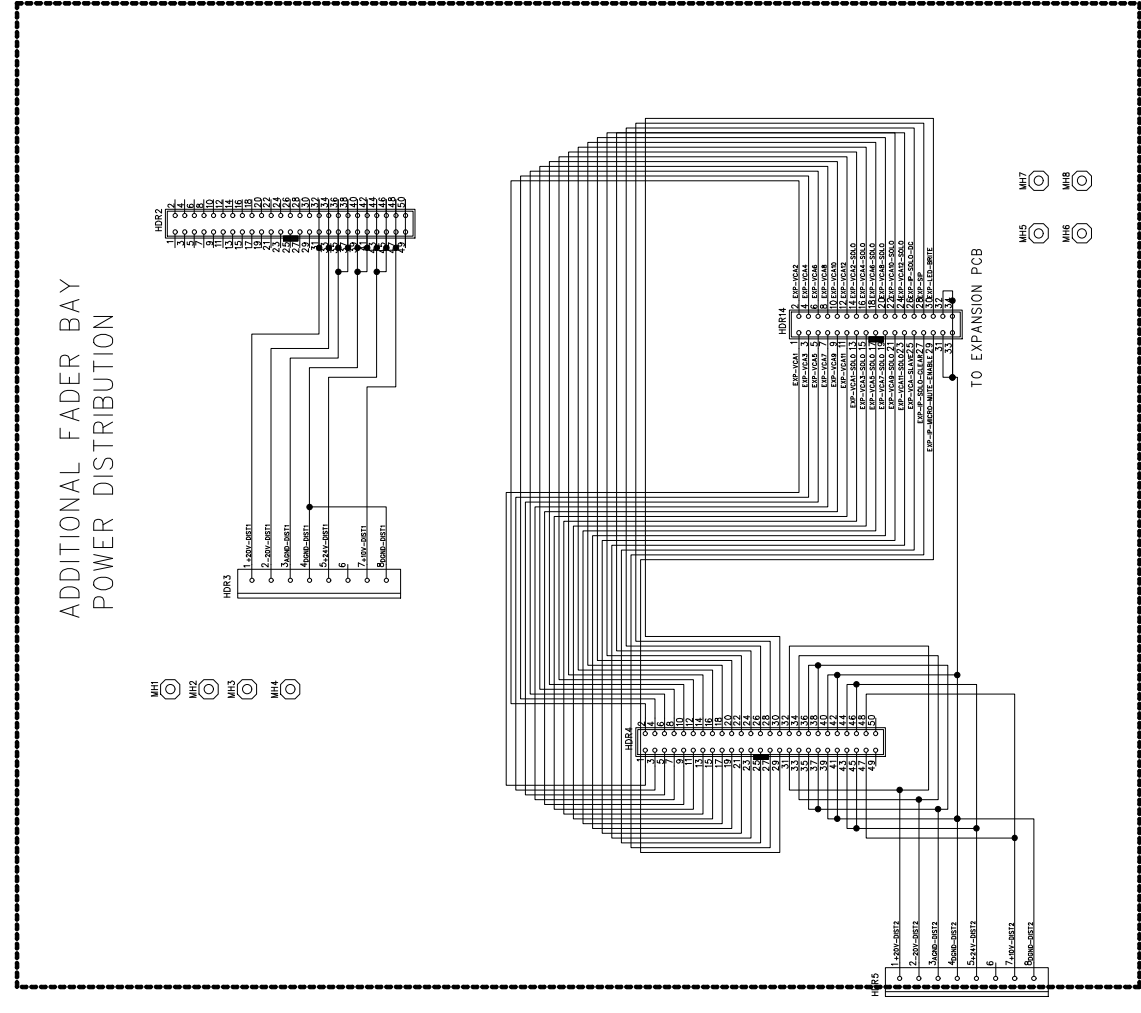
DRAWING NO: 76D4673

FILE NAME: V12SMFDA.SCH

REV: A

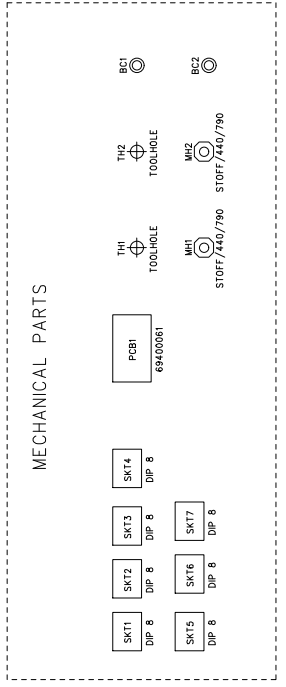
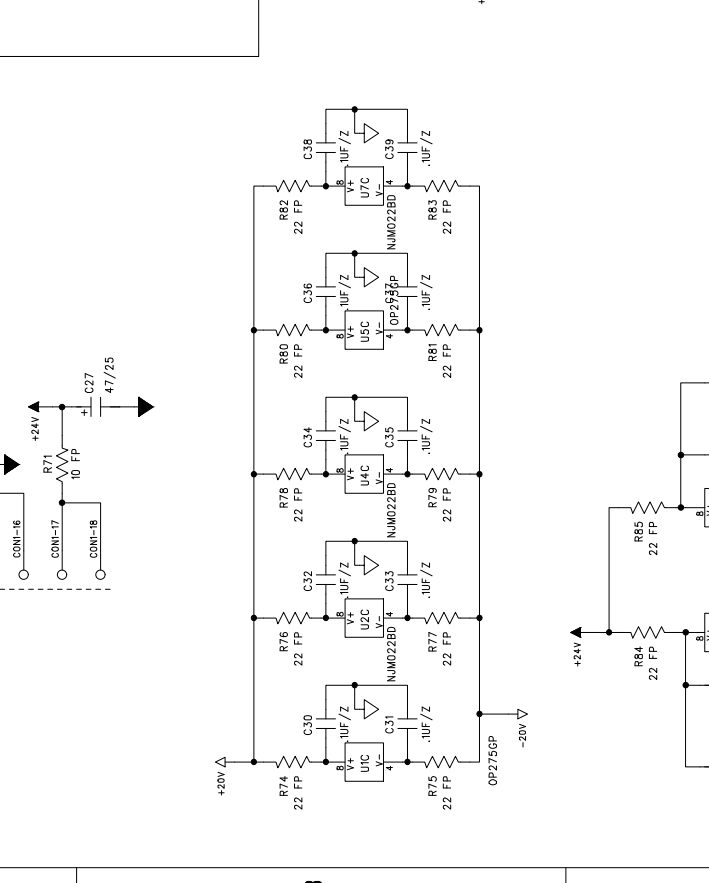
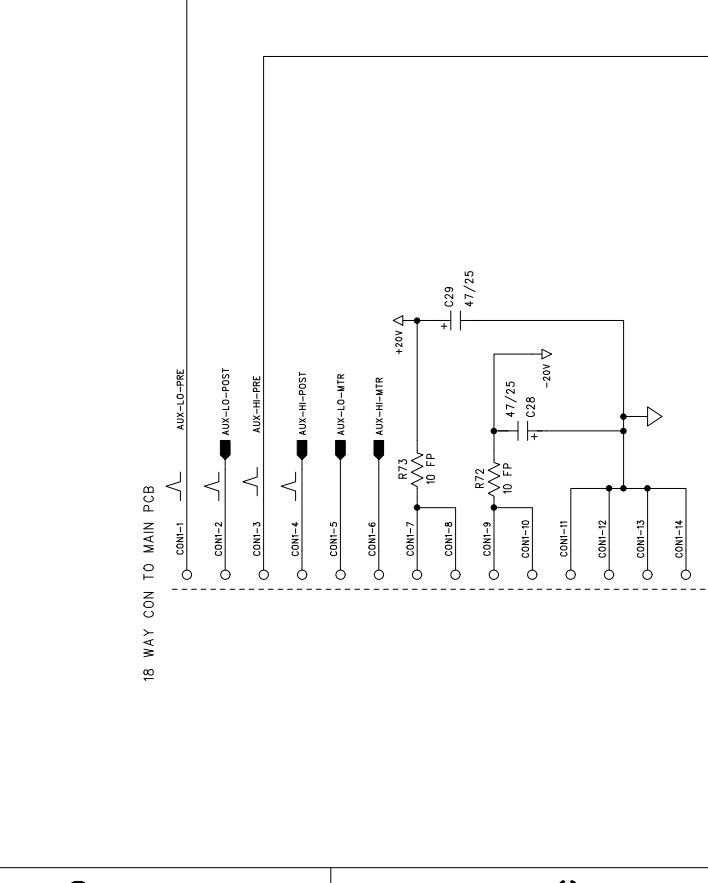
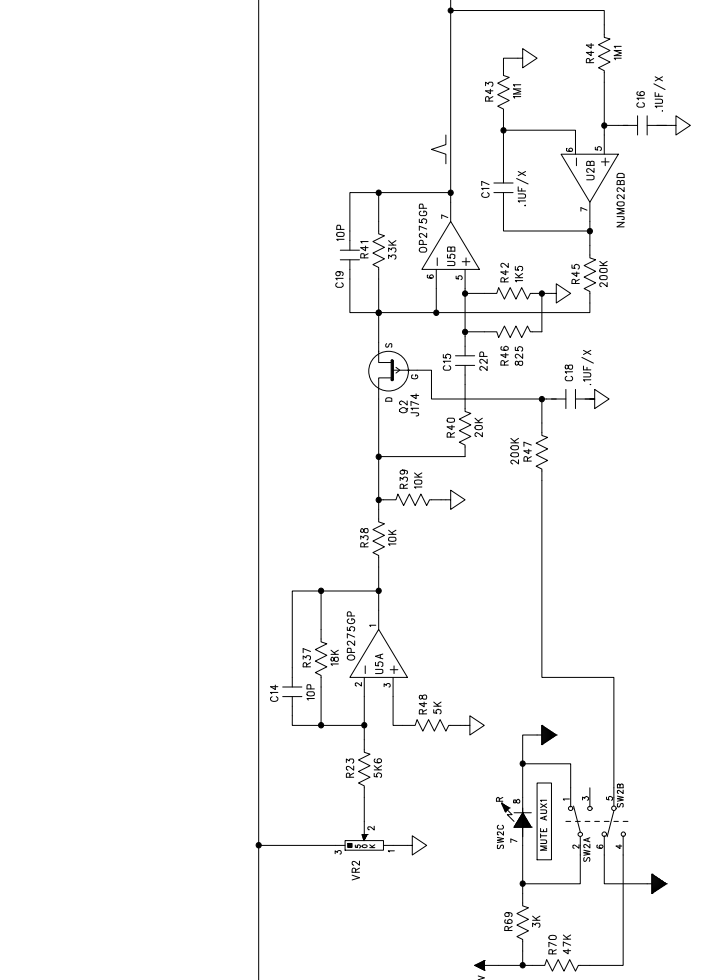
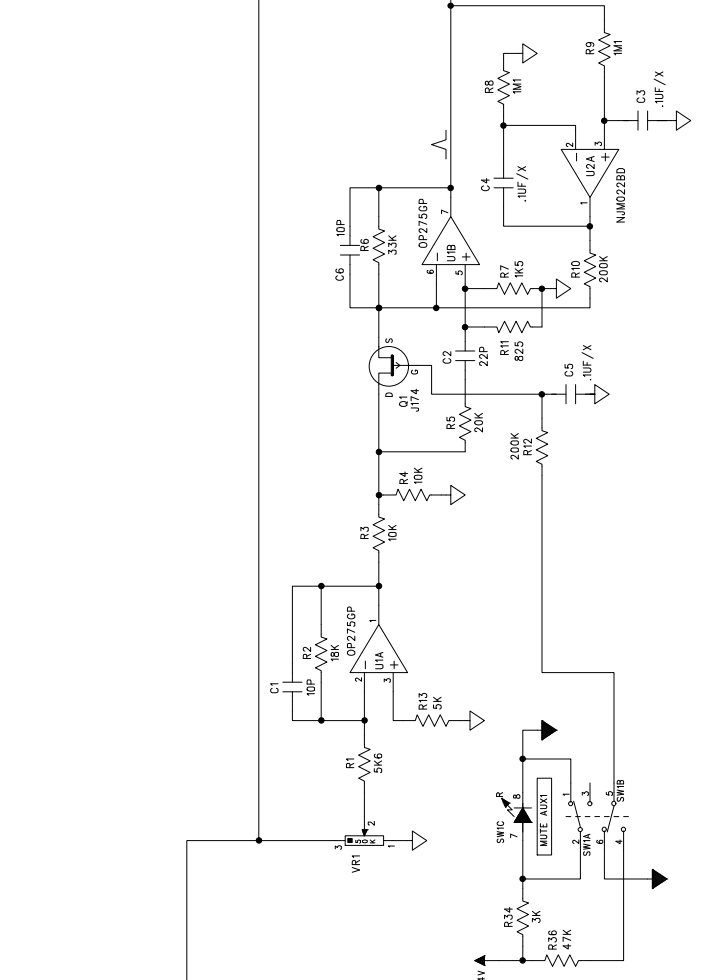
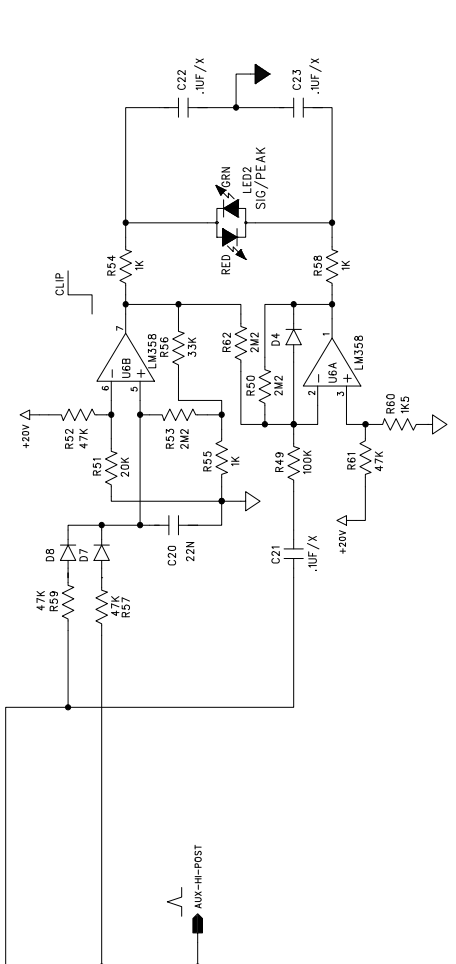
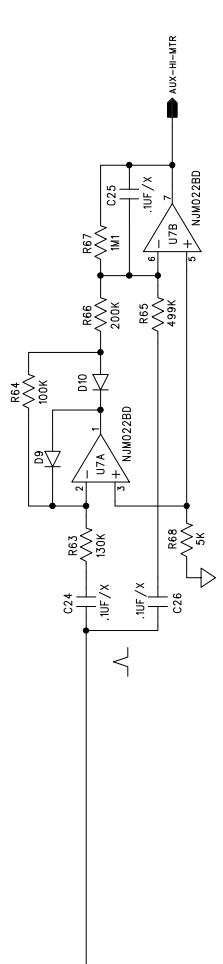
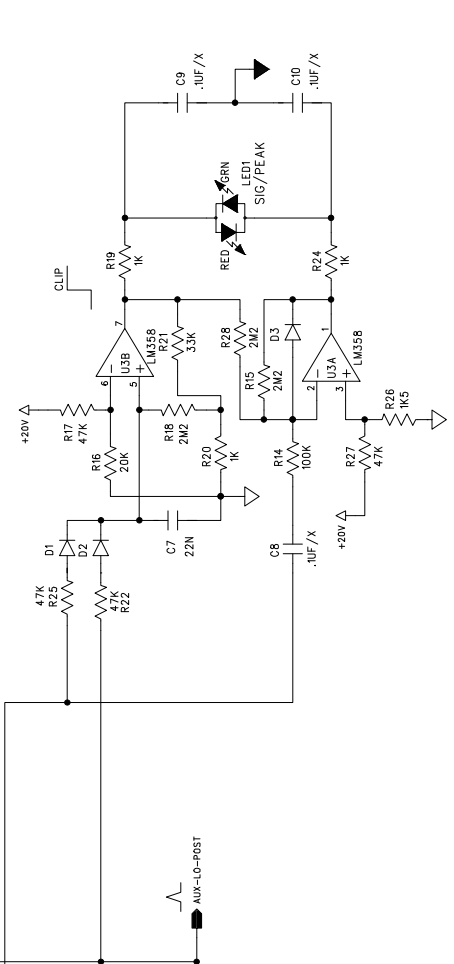
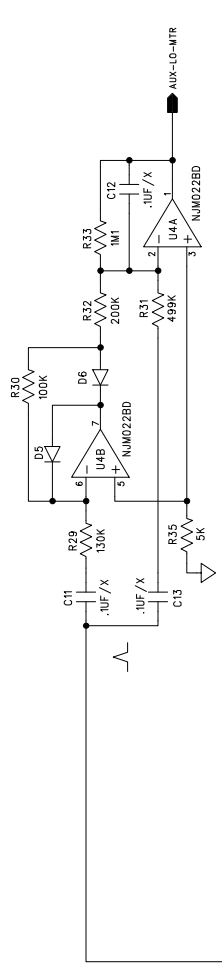
SHEET: 1 OF 2

REVISION RECORD	
LTR	DATE



COMPANY: CRESTAUDIO	
TITLE: V12 SIDECAR MASTER FADER PCB	
ORG DRAWN: TAZ	DATED: 11/99
CHECKED: TAZ	DATED: 11/99
CUR REV DRAWN: TAZ	DATED: 11/99
RELEASED: TAZ	DATED: 11/99
REV: A	DRAWING NO: 76D4673
FILE NAME: V12SMFDA.SCH	CODE: D
SCALE: 1:1	SHEET: 2 OF 2

REVISION RECORD	
LTR	DATE



COMPANY: **CRESTAUDIO**

TITLE: **V12 SIDECAR MASTERS AUX SUB PCB**

ORG DRAWN: TAZ

CHECKED: **D**

CUR REV DRAWN: **D**

RELEASED: **D**

DATE: 11/11/99

DATE: **D**

DATE: **D**

DATE: **D**

SCALE: 1 OF 1

DRIVING NO: 76D4654

FILE NAME: V12SMSBA.SCH

REV: A

DATE: 11/11/99

DATE: **D**

DATE: **D**

DATE: **D**

PCB1 69400061

SK11 DP 8

SK12 DP 8

SK13 DP 8

SK14 DP 8

SK15 DP 8

SK16 DP 8

SK17 DP 8

SK18 DP 8

SK19 DP 8

SK20 DP 8

SK21 DP 8

SK22 DP 8

SK23 DP 8

SK24 DP 8

SK25 DP 8

SK26 DP 8

SK27 DP 8

SK28 DP 8

SK29 DP 8

SK30 DP 8

SK31 DP 8

SK32 DP 8

SK33 DP 8

SK34 DP 8

SK35 DP 8

SK36 DP 8

SK37 DP 8

SK38 DP 8

SK39 DP 8

SK40 DP 8

SK41 DP 8

SK42 DP 8

SK43 DP 8

SK44 DP 8

SK45 DP 8

SK46 DP 8

SK47 DP 8

SK48 DP 8

SK49 DP 8

SK50 DP 8

SK51 DP 8

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SK83 DP 8

SK84 DP 8

SK85 DP 8

SK86 DP 8

SK87 DP 8

SK88 DP 8

SK89 DP 8

SK90 DP 8

SK91 DP 8

SK92 DP 8

SK93 DP 8

SK94 DP 8

SK95 DP 8

SK96 DP 8

SK97 DP 8

SK98 DP 8

SK99 DP 8

SK100 DP 8

18 WAY CON TO MAIN PCB

AUX-LO-PRE

AUX-LO-POST

AUX-HI-PRE

AUX-HI-POST

AUX-LO-MTR

AUX-HI-MTR

+20V

-20V

+24V

-20V

V12 SIDECAR INTERMASTER CON

Pin #	Signal	Notes	Pin #	Signal	Notes
A1	Meter Grp to Bank Sel	To Meter Mux	C1	Meter Aux1-8 to Bank Sel	To Meter Mux
A2	Meter Aux9-16 to Bank Sel	To Meter Mux	C2	Meter Mtx1-8 to Bank Sel	To Meter Mux
A3	Meter Mtx9-16 to Bank Sel	To Meter Mux	C3	Local Meter Control	To Sidecar Master Motherboard
A4	Lamp Ctrl	To Meter Mux	C4	OP (Relay) Disable	From Meter Mux (power sense)
A5	Local Aux1 to Meter	To Meter Mux	C5	Local Aux2 to Meter	To Meter Mux
A6	Local Aux3 to Meter	To Meter Mux	C6	Local Aux4 to Meter	To Meter Mux
A7	Local Aux5 to Meter	To Meter Mux	C7	Local Aux6 to Meter	To Meter Mux
A8	Local Aux7 to Meter	To Meter Mux	C8	Local Aux8 to Meter	To Meter Mux
A9	Local Monitor L to Meter	To Meter Mux	C9	Local Monitor R to Meter	To Meter Mux
A10	Local Aux 1 Pre	From Sidecar Mix-Amp PCB	C10	Local Aux 1 Post	To Sidecar Mix-Amp PCB
A11	Local Aux 2 Pre	From Sidecar Mix-Amp PCB	C11	Local Aux 2 Post	To Sidecar Mix-Amp PCB
A12	Local Aux 3 Pre	From Sidecar Mix-Amp PCB	C12	Local Aux 3 Post	To Sidecar Mix-Amp PCB
A13	Local Aux 4 Pre	From Sidecar Mix-Amp PCB	C13	Local Aux 4 Post	To Sidecar Mix-Amp PCB
A14	Local Aux 5 Pre	From Sidecar Mix-Amp PCB	C14	Local Aux 5 Post	To Sidecar Mix-Amp PCB
A15	Local Aux 6 Pre	From Sidecar Mix-Amp PCB	C15	Local Aux 6 Post	To Sidecar Mix-Amp PCB
A16	Local Aux 7 Pre	From Sidecar Mix-Amp PCB	C16	Local Aux 7 Post	To Sidecar Mix-Amp PCB
A17	Local Aux 8 Pre	From Sidecar Mix-Amp PCB	C17	Local Aux 8 Post	To Sidecar Mix-Amp PCB
A18	Local Mono Pre	From Sidecar Mix-Amp PCB	C18	Local Mono Post	To Sidecar Mix-Amp PCB
A19	Local Left Pre	From Sidecar Mix-Amp PCB	C19	Local Left Post	To Sidecar Mix-Amp PCB
A20	Local Right Pre	From Sidecar Mix-Amp PCB	C20	Local Right Post	To Sidecar Mix-Amp PCB
A21	Local Aux1 Isolate	Ctrl to Sidecar Mix-Amp PCB	C21	Local Aux2 Isolate	Ctrl to Sidecar Mix-Amp PCB
A22	Local Aux3 Isolate	Ctrl to Sidecar Mix-Amp PCB	C22	Local Aux4 Isolate	Ctrl to Sidecar Mix-Amp PCB
A23	Local Aux5 Isolate	Ctrl to Sidecar Mix-Amp PCB	C23	Local Aux6 Isolate	Ctrl to Sidecar Mix-Amp PCB
A24	Local Aux7 Isolate	Ctrl to Sidecar Mix-Amp PCB	C24	Local Aux8 Isolate	Ctrl to Sidecar Mix-Amp PCB
A25	L/R/M Pre to Master	Ctrl to Sidecar Mix-Amp PCB	C25	L/R Isolate	Ctrl to Sidecar Mix-Amp PCB
A26	Mono Isolate	Ctrl to Sidecar Mix-Amp PCB	C26	Solo Isolate	Ctrl to Sidecar Mix-Amp PCB
A27	Local Slave Control	Ctrl from Sidecar Mix-Amp PCB	C27	Local Master Module Sense	Ctrl To Sidecar Mix-Amp PCB
A28	Local Solo Left Pre	From Sidecar Mix-Amp PCB	C28	Local Solo Right Pre	From Sidecar Mix-Amp PCB
A29	OP Solo Clear	To Sidecar Mix-Amp PCB	C29	DGND (scar sense)	Sidecar Sense
A30	DGND		C30	DGND	
A31	SOLO-Tally	To Meter Mux	C31	Spare	
A32	AGND		C32	AGND	

V12 EXPANSION CABLE PINOUT PAGE1

CORE NUMBER	CORE JACKET COLOR	WIRE COLOR	SHIELD LINK	HYPERTRONICS PIN NUMBER	SIGNAL NAME
1	Black	Clear	1	K15	GROUP1
		Brown		K14	GROUP2
		Shield		F15	
2	Black	Clear	1	J15	GROUP3
		Red		J14	GROUP4
		Shield		F15	
3	Black	Clear	1	H15	GROUP5
		Orange		H14	GROUP6
		Shield		F15	
4	Black	Clear	1	G15	GROUP7
		Yellow		G14	GROUP8
		Shield		F15	
5	Black	Clear	2		NOT USED
		Green		F14	MONO
		Shield		C15	
6	Black	Clear	2	E15	LEFT
		Blue		E14	RIGHT
		Shield		C15	
7	Black	Clear	2	D15	SOLO LEFT
		Purple		D14	SOLO RIGHT
		Shield		C15	
8	Black	Clear	3	C14	AUX1
		Gray		B15	AUX2
		Shield		J1	
9	Black	Clear	3	B14	AUX3
		White		A15	AUX4
		Shield		J1	
10	Brown	Clear	3	A14	AUX5
		Black		K2	AUX6
		Shield		J1	
11	Brown	Clear	3	K1	AUX7
		Brown		J2	AUX8
		Shield		J1	
12	Brown	Clear	4	H2	AUX9
		Red		H1	AUX10
		Shield		D2	
13	Brown	Clear	4	G2	AUX11
		Orange		G1	AUX12
		Shield		D2	
14	Brown	Clear	4	F2	AUX13
		Yellow		F1	AUX14
		Shield		D2	
15	Brown	Clear	4	E2	AUX15
		Green		E1	AUX16
		Shield		D2	
16	Brown	Clear	5	B2	GLOBAL9/10
		Blue		B1	GLOBAL11/12
		Shield		C1	
CORE NUMBER	CORE JACKET COLOR	WIRE COLOR	SHIELD LINK	HYPERTRONICS PIN NUMBER	SIGNAL NAME
		Clear		A2	GLOBAL13/14

V12 EXPANSION CABLE PINOUT PAGE2

17	Brown	Purple Shield	5	A1 C1	GLOBAL15/16
18	Brown	Clear Gray Shield	6	K3 J4 D3	VCA CTRL1 VCA CTRL2
19	Brown	Clear White Shield	6	J3 H4 D3	VCA CTRL3 VCA CTRL4
20	Red	Clear Black Shield	6	H3 G4 D3	VCA CTRL5 VCA CTRL6
21	Red	Clear Brown Shield	6	G3 F4 D3	VCA CTRL7 VCA CTRL8
22	Red	Clear Red Shield	6	F3 E4 D3	VCA CTRL9 VCA CTRL10
23	Red	Clear Orange Shield	6	E3 D4 D3	VCA CTRL11 VCA CTRL12
24	Red	Clear Yellow Shield	7	C4 C3 D1	VCA SOLO1 VCA SOLO2
25	Red	Clear Green Shield	7	B4 B3 D1	VCA SOLO3 VCA SOLO4
26	Red	Clear Blue Shield	7	A4 A3 D1	VCA SOLO5 VCA SOLO6
27	Red	Clear Purple Shield	7	K13 K12 D1	VCA SOLO7 VCA SOLO8
28	Red	Clear Gray Shield	7	J13 J12 D1	VCA SOLO9 VCA SOLO10
29	Red	Clear White Shield	7	H13 H12 D1	VCA SOLO11 VCA SOLO12
30	Orange	Clear Black Shield	8	G13 G12 K4	IP SOLO DC IP SOLO CLR
31	Orange	Clear Brown Shield	8	F13 F12 K4	OP SOLO DC OP SOLO CLR
32	Orange	Clear Red Shield	8	E13 E12 K4	OP SOLO DSBL AFL/PFL MODE
CORE NUMBER	CORE JACKET COLOR	WIRE COLOR	SHIELD LINK	HYPERTRONICS PIN NUMBER	SIGNAL NAME
33	Orange	Clear Orange Shield	9	D13 D12 C2	LED BRITE MTR POST CTRL
		Clear		C13	SIP MODE

V12 EXPANSION CABLE PINOUT PAGE3

34	Orange	Yellow		C12	IP MICRO ENBL
		Shield		B13	SLAVE MODE
		Clear		J5	METER DATA+
35	Orange	Green		H5	METER DATA-
		Shield		K5	
		Clear		J11	METER CLK+
36	Orange	Blue		H11	METER CLK-
		Shield		K11	

CORE SHIELDS LINKING INFORMATION	
CORE NUMBER	HYPERTRONICS PIN NUMBER
1, 2, 3, 4	F15
5, 6, 7	C15
8, 9, 10, 11	J1
12,13,14,15	D2
16, 17	C1
18, 19, 20, 21, 22, 23	D3
24, 25, 26, 27, 28, 29	D1
30, 31, 32	K4
33	C2
34	B13
35	K5
36	K11

NOTE: THE ABOVE CORES HAVE THEIR SHIELDS COMBINED AND TIED TO THE INDICATED HYPERTRONICS PIN.

UN-USED HYPERTRONICS PINS			
G5	G11		
F5	F11	F12	F13
E5	E11	E13	
D5	D11		
C5	C11		
B5	B11		
A5	A11		

FIRST ISSUE ERRORS - THE FOLLOWING ERRORS WERE FOUND ON THE FIRST PRODUCED SNAKE CABLE.

- A) SHIELDS OF CORE 30, 31, 32, 35 WERE CONNECTED TOGETHER AND CONNECTED TO PIN K5 OF HYPERTRONICS CONNECTOR. CORRECT ARRANGEMENT IS THAT SHIELD CORE 35 CONNECTS

V12 EXPANSION CABLE PINOUT PAGE4
TO PIN K5 AND SHIELD OF CORES 30, 31, 32 CONNECT TO PIN K4

B) SHIELDS OF CORE 33 AND 34 WERE CONNECTED TOGETHER AND CONNECTED TO PIN C2 OF HYPERTRONICS CONNECTOR. CORRECT ARRANGEMENT IS THAT SHIELD OF CORE 33 CONNECTS TO PIN C2, AND SHIELD OF CORE 34 CONNECTS TO B13.

C) ADDITIONAL INFORMATION - IF AT ALL POSSIBLE WE WOULD LIKE TO SEE CORE 35 AND CORE 36 WIRES BE AS SHORT AS POSSIBLE. (I.E. EXPOSED WIRE BE AS SMALL AS POSSIBLE) . THE SIGNALS ON THESE WIRES NEED TO BE ISOLATED AS MUCH AS POSSIBLE AND SHIELDED AS MUCH AS POSSIBLE.