COMPANY	SAMSON	APPLICANT	REVISED NUMBER AND DATE			SIGN	DRAWN	CHECKED	APPROVED	NOTE	SIZE	SHEET NO.	SCHEMATIC DIAGRAM
TYPE CODE		M.P	1.	4.	7.		KU		JK	A-GND CHGND D-GND	A3	1/5	MODEL: XM-610 POWER B'D
APPROVED DATE	2004.02.24		2.	5.	8.								
			3.	6.	9.								

POWER SUPPLY B'D

PCB1 POWER_BD 197X247mm CEM-1

CN104 CON ASS'Y 3P: +B2 1, GND 2, -B2 3

CN204 CON ASS'Y 3P: +B2 1, GND 2, -B2 3

AN304: GND 1, GND 2

AN101 TO CN101(AMP CH1): GND 1, +5V 2, -24V 3, GND 4, +24V 5, -15V 6, GND 7, +15V 8, GND1 9, SIG2 10, CLIP2 11, PROTECTION2 12

AN201 TO CN201(AMP CH2): PROTECTION2 12, CLIP2 11, SIG2 10, GND1 9, +15V 8, GND 7, -15V 6, +24V 5, GND 4, -24V 3, +5V 2, GND 1

WAF - WAF

D101 GBPC-W 2504; C106 10000/80; C107 10000/80; C102 0.22/250(M); C103 0.22/250(M)

AN302: 1, 2, 3, 4

GND2 GND TAB — A-GND CH-GND

D105 1N 4006; D106 1N 4006

IC101 7815; IC102 7915

C120 0.1/50; C121 0.1/50; C118 470/35; C119 220/50; C116 0.01/50; C117 0.01/50; C114 2200/35; C115 2200/35; C112 220/50; C113 220/50

D103 KBPC 203G; C110 0.01/50; C111 0.01/50

F103 T1AL/250V

AN303: 1, 2, 3, 4, 5

F104 T2AL/250V

IC103 7805; C124 0.01/50; C125 0.01/50; C122 0.01/50; C123 0.01/50; C127 220/50; C126 3300/16

D104 KBPC 203G

F101 T6.3AL; F102 T6.3AL

PT1: 115V, 0V, 115V, 0V, COM(0V)

( )230V: T3 X/(BK), T6 BK/(BL), T5 RD/(RD), T2 WH/(WH), T1 BL/(X), T8 WH/(WH)

AC INLET B'D

T7 WH/(WH) ( )230V; T4 GY/(GY) ( )230V

C101 0.01/500

SW101-A

JK101 INLET AC115V/230V(50/60Hz)

GND1 CON ASS'Y 1P

AC INPUT	115V	230V
T1	BLUE	X
T2	WHT	WHT
T3	BLK	X
T4	GRY	GRY
T5	RED	RED
T6	BLK	BLUE
T7	WHT	WHT
T8	WHT	WHT

*SERVICE INFORMATION

1.RESISTANCE VALUES ARE INDICATED IN OHMS UNLESS OTHERWISE SPECIFIED.
(K=1.000, M=1.000.000)
2.CAPACITANCE VALUES ARE SHOWN IN MICROFARADS UNLESS OTHERWISE NOTED.
(P=MICRO-MICROFARADS)
3.ALL VOLTAGES ARE REFFERED TO GROUND UNDER THE FOLLOWING CONDITIONS.
DC:NO SIGNAL EXCEPT WHERE INDICATED.
AC:RMS
4.-PRECAUTION-
A)ALL COMPONENTS MARKED MUST BE REPLACED ONLY WITH ORIGINAL TYPE SPECIFIED BY THE MANUFACTURER. SAMSON TECHNOLOGIES CORPORATION AND INSTALLED AS THE ORIGINAL SPACERS AND POSITIONED AWAY FROM ADJACENT COMPONENTS WHERE APPLICABLE.
B)ALL SOLDERING MUST BE DONE IN A PROFESSIONAL MANNER USING ROSIN CORE SOLDER ONLY.
C)ALL COVERS. SHIELD AND INSULATING SPACERS MUST BE REPLACED BEFORE RETURNING UNIT TO CUSTOMER.
D)A DAMAGE POWER SUPPLY CORD MUST BE REPLACED BEFORE RETURNING TO CUSTOMER.
E)DIELECTRIC TEST CONSISTING OF 120V AC 60HZ IS TO BE APPLIED BETWEEN BOTH BLADES OF THE POWER SUPPLY CORD ATTACHMENT PLUG AND THE EXPOSED CONDUCTIVE SURFACE OF THE UNIT FOR A PERIOD OF NOT LESS THAN ONE SECOND BEFORE RETURNING UNIT TO CUSTOMER.
F)THE MARKED RESISTORS ARE MOUNTED TO THE P.C.B ON SLEEVES.

OUTPUT JACK B'D

JK1401 A, JK1402 B — AMP2

JK1601 BRIDGED

JK1502 A, JK1501 B — AMP1

TO CN103 CON B'DIN 2P-PIN: AMP2 OUT 1, GND 2 — AN103, AN105

TO CN203 CON B'DIN 2P-PIN: AMP1 OUT 1, GND 2 — AN203, AN205

CPU B'D

FFC CON ASS'Y 18P: DS0, DS1, DS2, DS3, DS4, DS5, DS6, DS7, DIGIT1, DIGIT2, LEFT, RIGHT, VCC, GND, VIN, EFX_ON, VOUTL, VOUTR

CN301: DO0 R101 560, DO1 R102 560, DO2 R103 560, DO3 R104 560, DO4 R105 560, DO5 R106 560, DO6 R107 560, DO7 R108 560

D[00:07]

IC104 S3C9454 (P0.0/AD8/INT0, P0.1/AD9/INT1, P0.2/AD2, P0.3/AD3, P0.4/AD4, P0.5/AD5, P0.6/AD6/PWM, P0.7/AD7, P2.0/AD8/CK)

R112 47K; R109 10; C130 0.1

IC106 HC573 (OE, D0-D7, Q0-Q7, LE, VDD, GND); C132 0.1

DS[0:7]: DS3, DS2, DS1, DS3, DS4, DS0, DS5, DS7, DS6, DS4, DS5

IC105 93C46 (CS, SK, DI, DO, VCC, NC, NC, GND); R111 47K; C131 0.1

R110 47K

C128 220/10; C129 0.1

CN304: GND 1, GND 2

AN2: 1 NC, 2 VOUTL, 3 DS3, 4 VOUTR, 5 DS2, 6 VINL, 7 DS1, 8 VCC, 9 DS0, 10 GND, 11 DS7, 12 VINR, 13 DS6, 14 DS4, 15 DS5, 16 CS

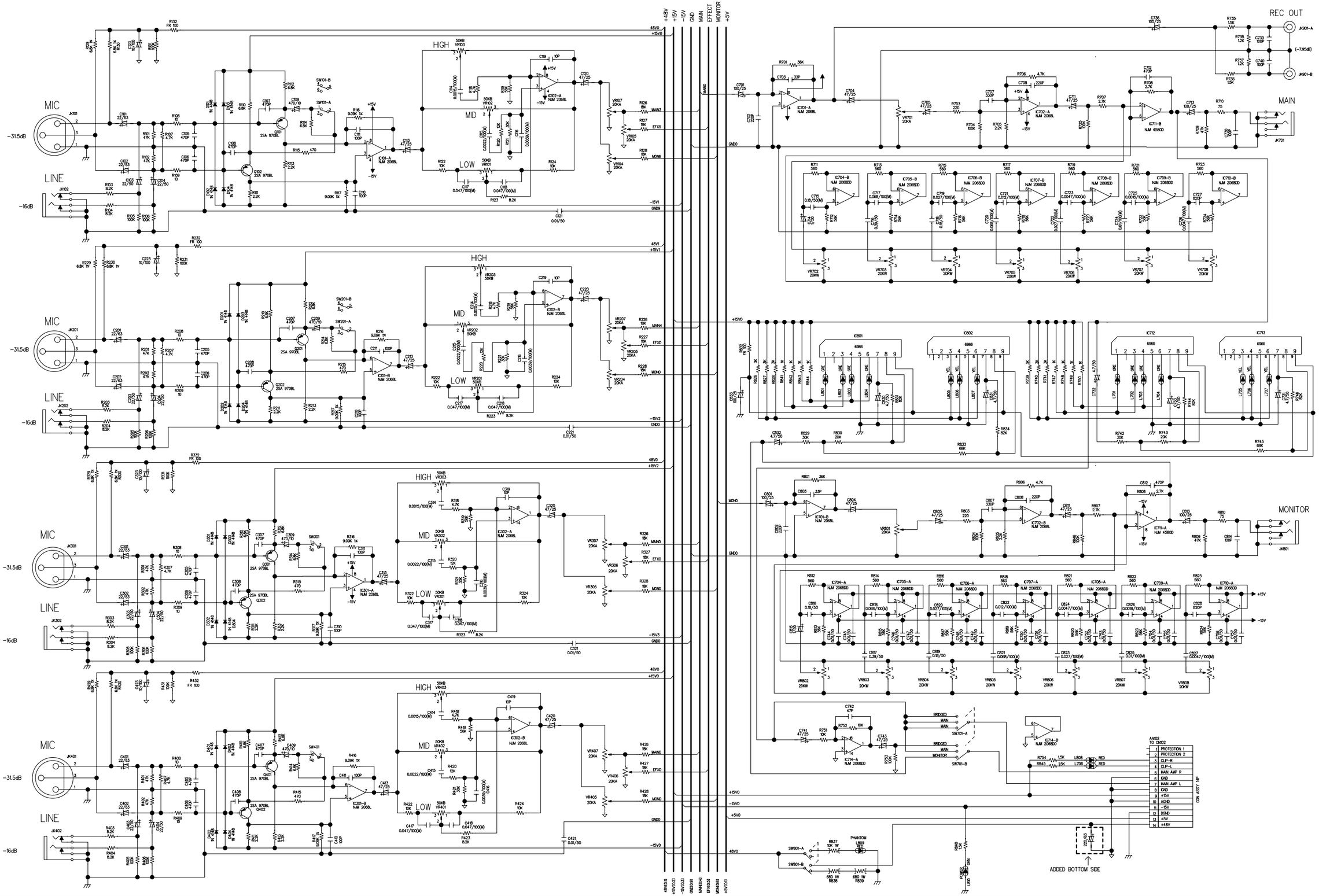
CN2: NC 1, VOUTL 2, DS3 3, VOUTR 4, DS2 5, VINL 6, DS1 7, VCC 8, DS0 9, GND 10, DS7 11, VINR 12, DS6 13, DS4 14, DS5 15, CS 16

DSP B'D

PCB2 DSP_BD

COMPANY	SAMSON	APPLICANT	REVISED NUMBER AND DATE			SIGN	DRAWN	CHECKED	APPROVED	NOTE	SIZE	SHEET NO.	SCHEMATIC DIAGRAM
TYPE CODE		M.P	1. 2004.12.20	4.	7.		KU		JK	1. C123,C223,C323,C423 are changed from 47uF/63V to 10uF/100V 2. Added 470uF/63V for phantom power inrush trouble	A2	4/5	MODEL : XM-610 MIXER B'D1
APPROVED DATE	2004.02.24		2. 2005.02.17	5.	8.								
			3.	6.	9.								

A-GND CHGND D-GND



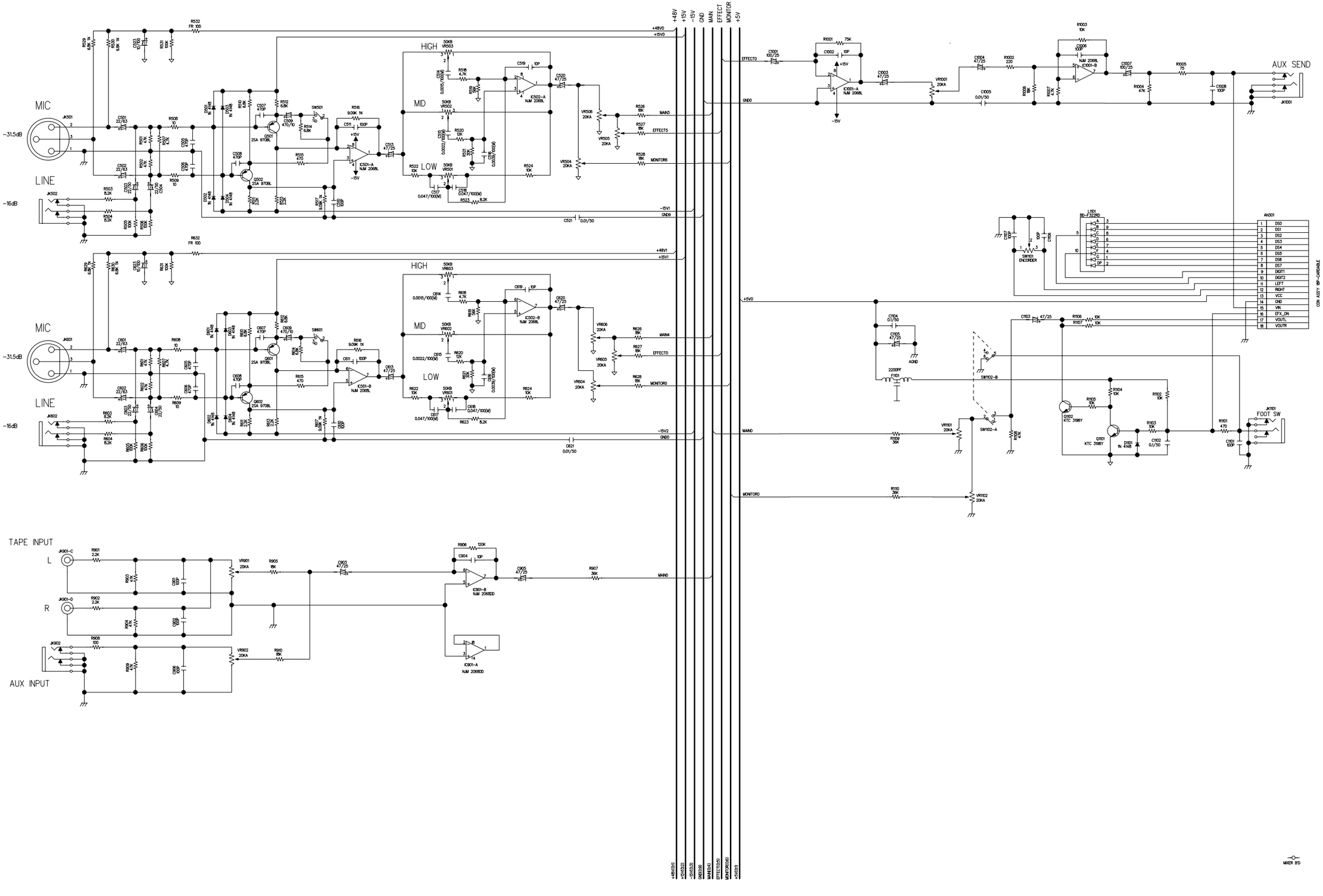
COMPANY	SAMSON	APPLICANT	REVISED NUMBER AND DATE			SIGN	DRAWN	CHECKED	APPROVED	NOTE
TYPE CODE		M.P	1. 2004.12.20	4.	7.		KU		JK	1. C523,C623 are changed from 47uF/63V to 10uF/100V
APPROVED DATE	2004.02.24		2. 2005.02.17	5.	8.					2. Added 470uF/50V for phantom power inrush trouble
			3.	6.	9.					

A-GND CHGND D-GND

SIZE	SHEET NO.
A2	5/5

SCHEMATIC DIAGRAM

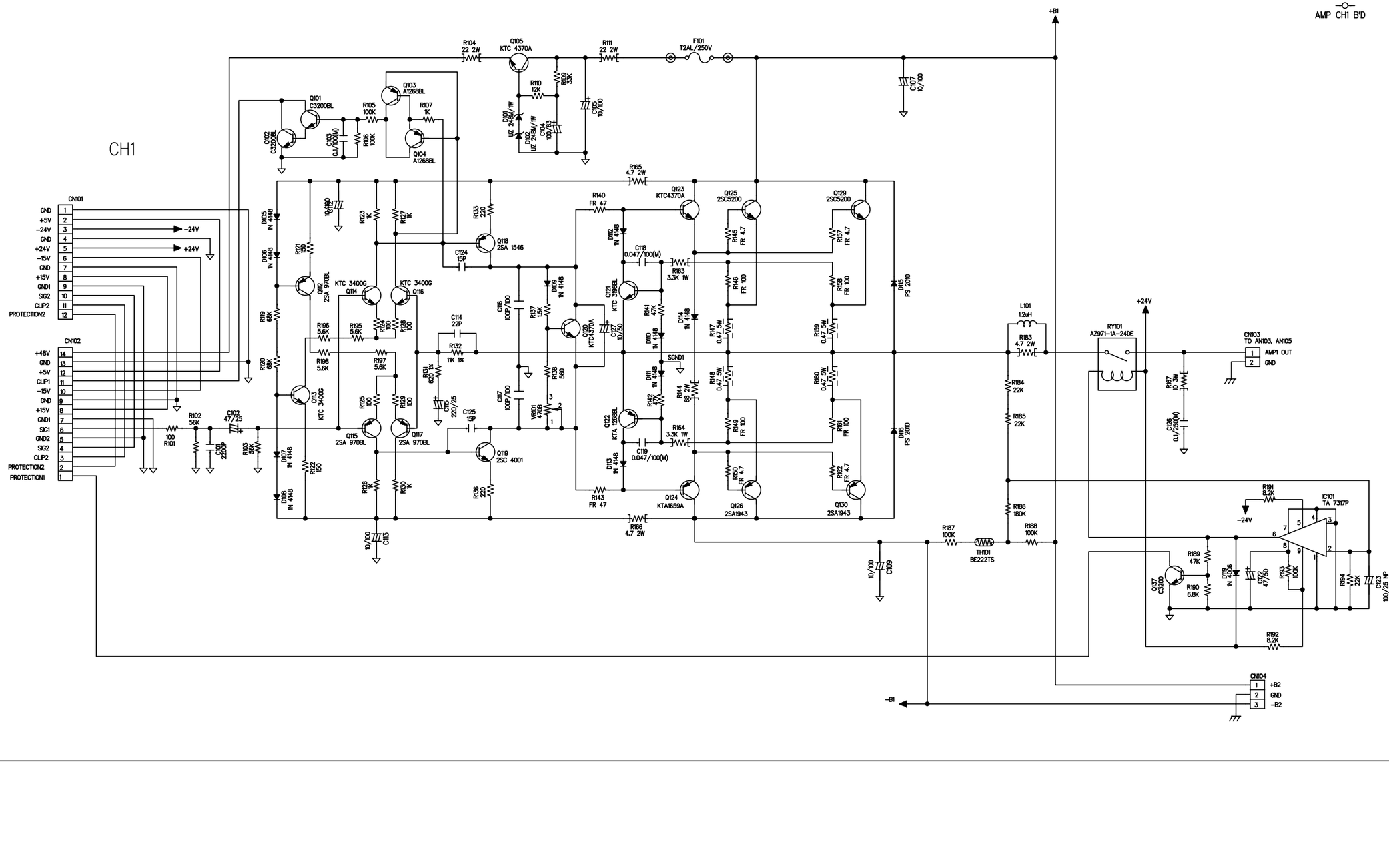
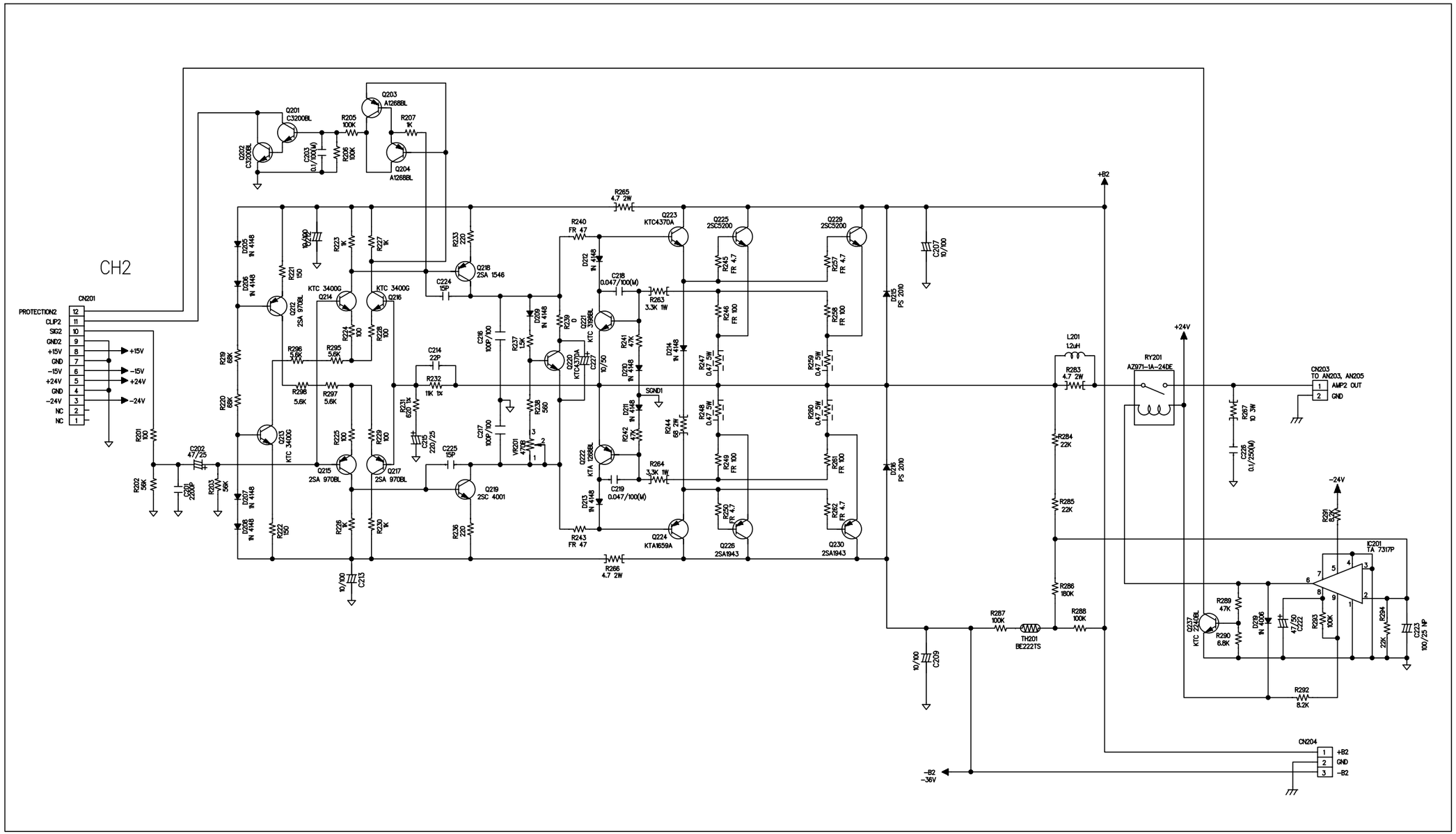
MODEL : XM-610 MIXER B'D2



COMPANY	SAMSON	APPLICANT	REVISED NUMBER AND DATE			S	DRAWN	CHECKED	APPROVED	NOTE	SIZE	SHEET NO.	SCHEMATIC DIAGRAM
TYPE CODE		M.P	1. 2004.12.20	4.	7.	I	KU		JK	D101,102 are changed from 1/4 watt to 1 watt	A3	2/5	MODEL: XM-610 AMP CH1 B'D
APPROVED DATE	2004.02.24		2.	5.	8.	G							
			3.	6.	9.	N							

AMP CH1 B'D

CH1



COMPANY	SAMSON	APPLICANT	REVISED NUMBER AND DATE			SIGN	DRAWN	CHECKED	APPROVED	NOTE	SIZE	SHEET NO.	SCHEMATIC DIAGRAM
TYPE CODE		M.P	1.	4.	7.		KU		JK	A-GND CHGND D-GND	A3	3/5	MODEL: XM-610 AMP CH2 B'D
APPROVED DATE	2004.02.24		2.	5.	8.								
			3.	6.	9.