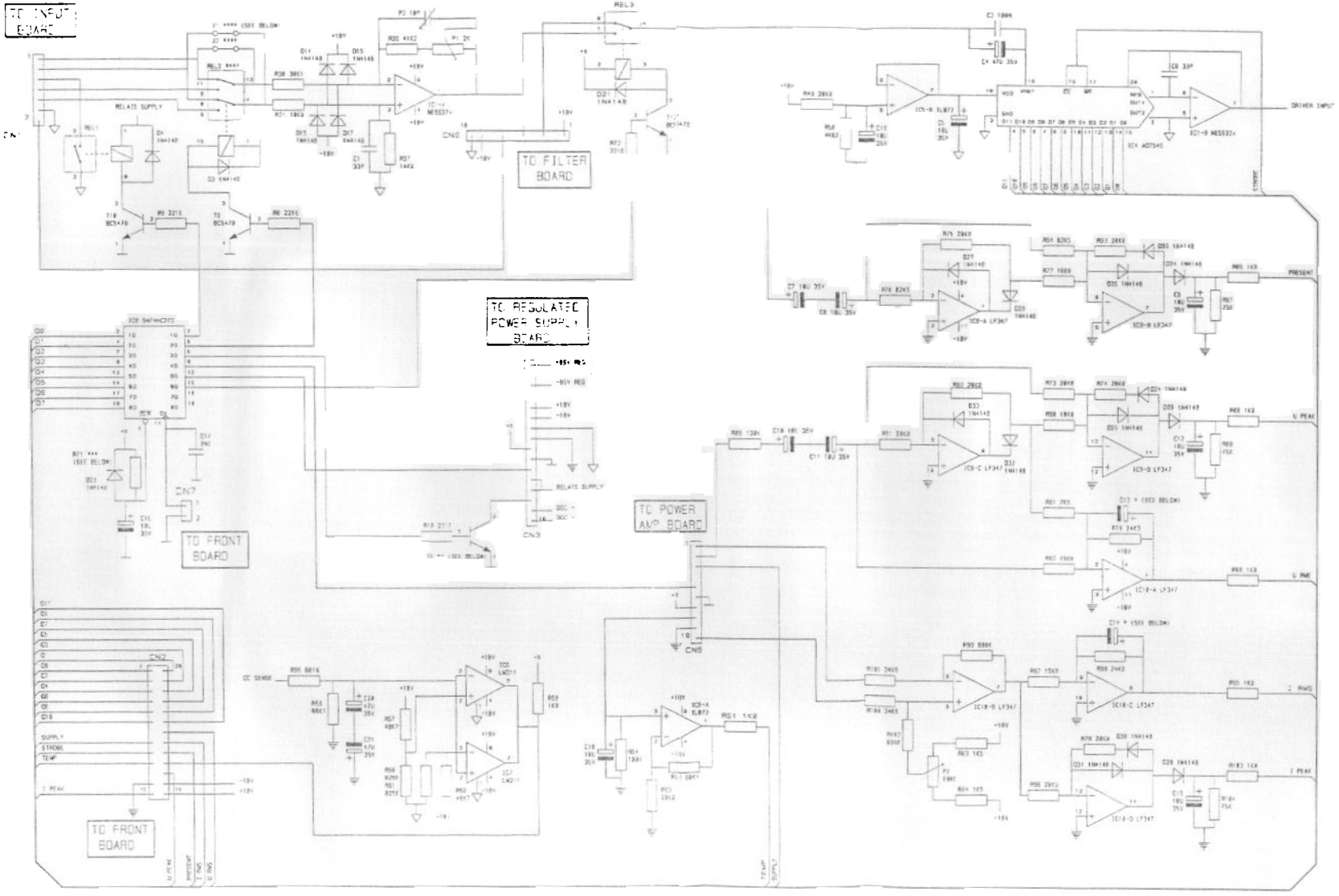
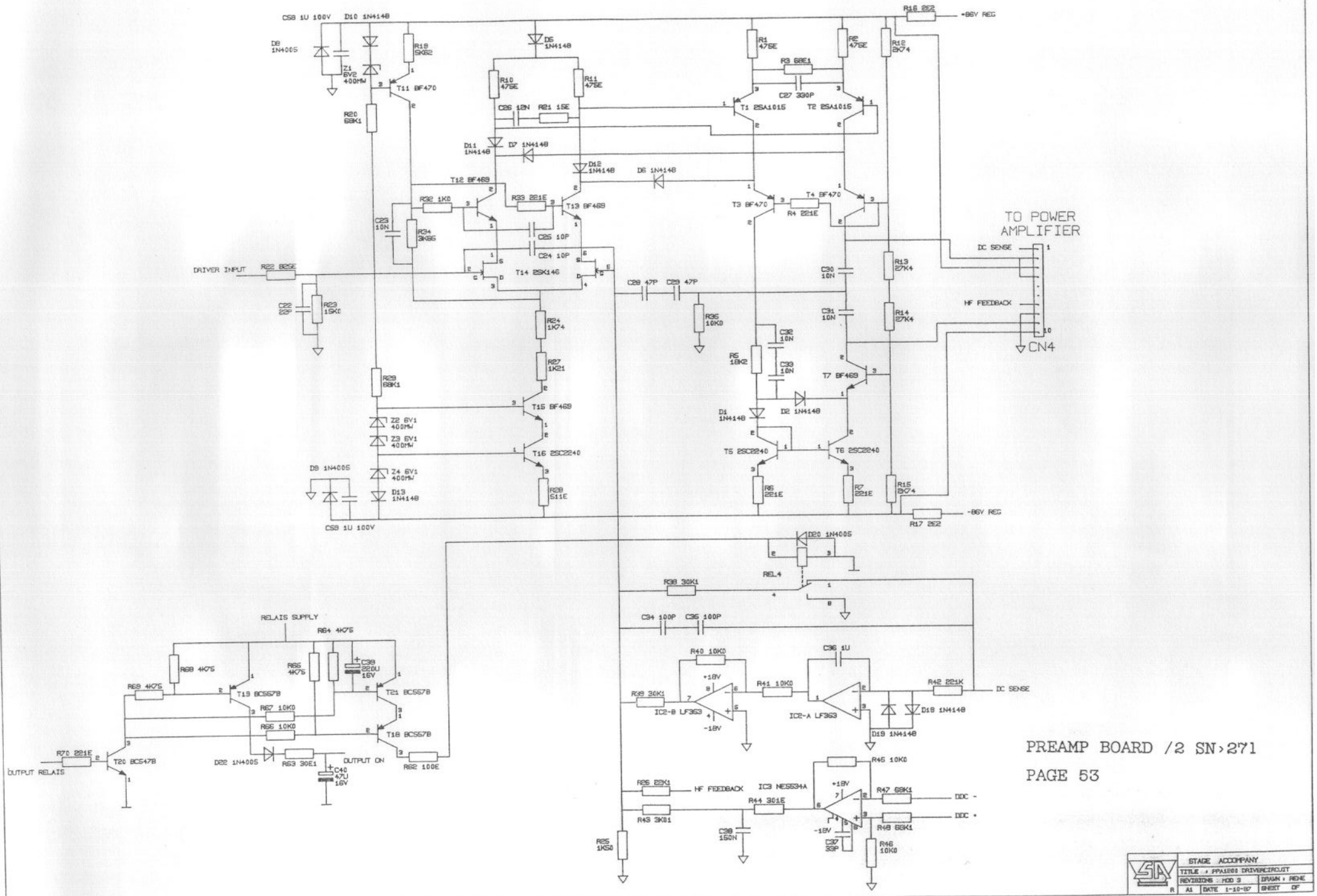


PREAMP BOARD /1 SN>271

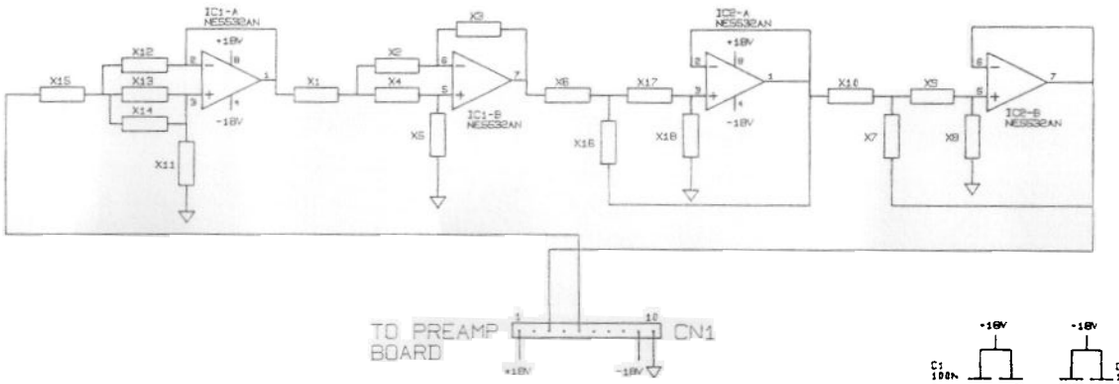
	STAGE ACCOMPANY	HOORN THE NETHERLANDS
	PROJECT: PPA 1200	
	CIRCUIT: PREAMP BOARD	
A3	DRAWING NO:	UPDATE FROM: 22-08-87
	PCB NO: 1285 1282	DRAWN: R. KUIPERS
	REMARKS: C13, C14 & R71 UPDATES	DATE: 12-03-93

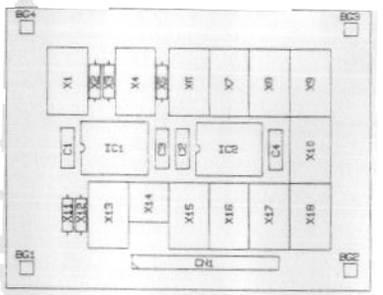


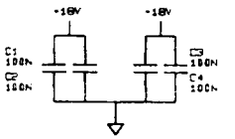
PREAMP BOARD /2 SN>271

PAGE 53

	STAGE ACCOMPANY	
	TITLE : PPA1000 DRIVERCIRCUIT	
	REVISIONS : MOD 3	DRAWN : RENE
R	A1 DATE 1-10-87	SHEET OF







STANDARD VERSION
LOW PASS
4549 LO MID

COMPONENT	TYPE	VALUE
X15	C MKM	470N
X12	R	28K7
X13	C MKM	470N
X14	/	/
X11	R	31K6
X1	C MKM	470N
X2	R	21K5
X4	C MKM	470N
X5	R	54K9
X3	R	0E
X6	R	19K4
X16	C FOIL	10N
X17	R	13K0
X18	C FOIL	10N
X10	R	21K5
X7	C FOIL	10N
X9	R	21K5
X8	C FOIL	3N9

STANDARD VERSION
HIGH PASS

COMPONENT	TYPE	VALUE
X15	R	0E
X12	/	/
X13	R	0E
X14	/	/
X11	/	/
X1	R	0E
X2	R	10K0
X4	/	/
X5	/	0E
X3	R	10K0
X6	C FOIL	10N
X16	R	16K5
X17	C FOIL	10N
X18	R	17K8
X10	C FOIL	10N
X7	R	18K1
X9	R	16K2
X8	R	36K1

4549 SUB LOW

COMPONENT	TYPE	VALUE
X15	C MKM	470N
X12	R	28K7
X13	C MKM	470N
X14	/	/
X11	R	31K6
X1	C MKM	470N
X2	R	21K5
X4	C MKM	470N
X5	R	54K9
X3	R	0E
X6	R	0E
X16		
X17	R	0E
X18		
X10	R	0E
X7		
X9	R	16K2
X8	C MKM	150N

4549 HIGH PASS

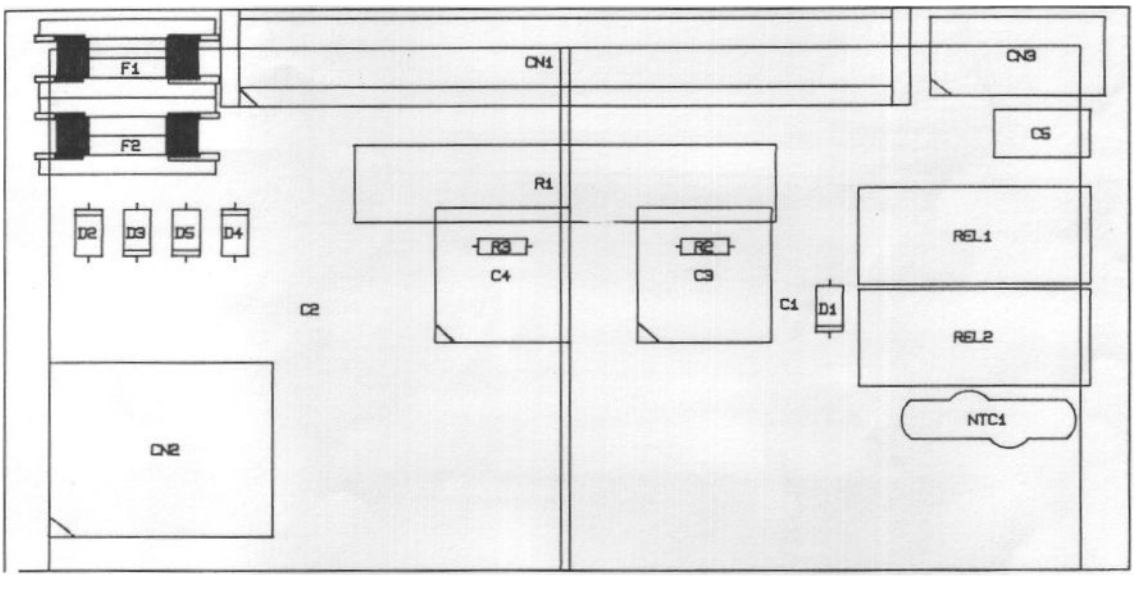
COMPONENT	TYPE	VALUE
X15	R	0E
X12	/	/
X13	R	10K0
X14	C FOIL	4N7
X11	R	10K0
X1	R	0E
X2	R	10K0
X4	/	/
X5	/	0E
X3	R	10K0
X6	C FOIL	10N
X16	R	16K5
X17	C FOIL	10N
X18	R	17K8
X10	C FOIL	10N
X7	R	18K1
X9	C FOIL	10N
X8	R	36K1

4528 SUB LOW

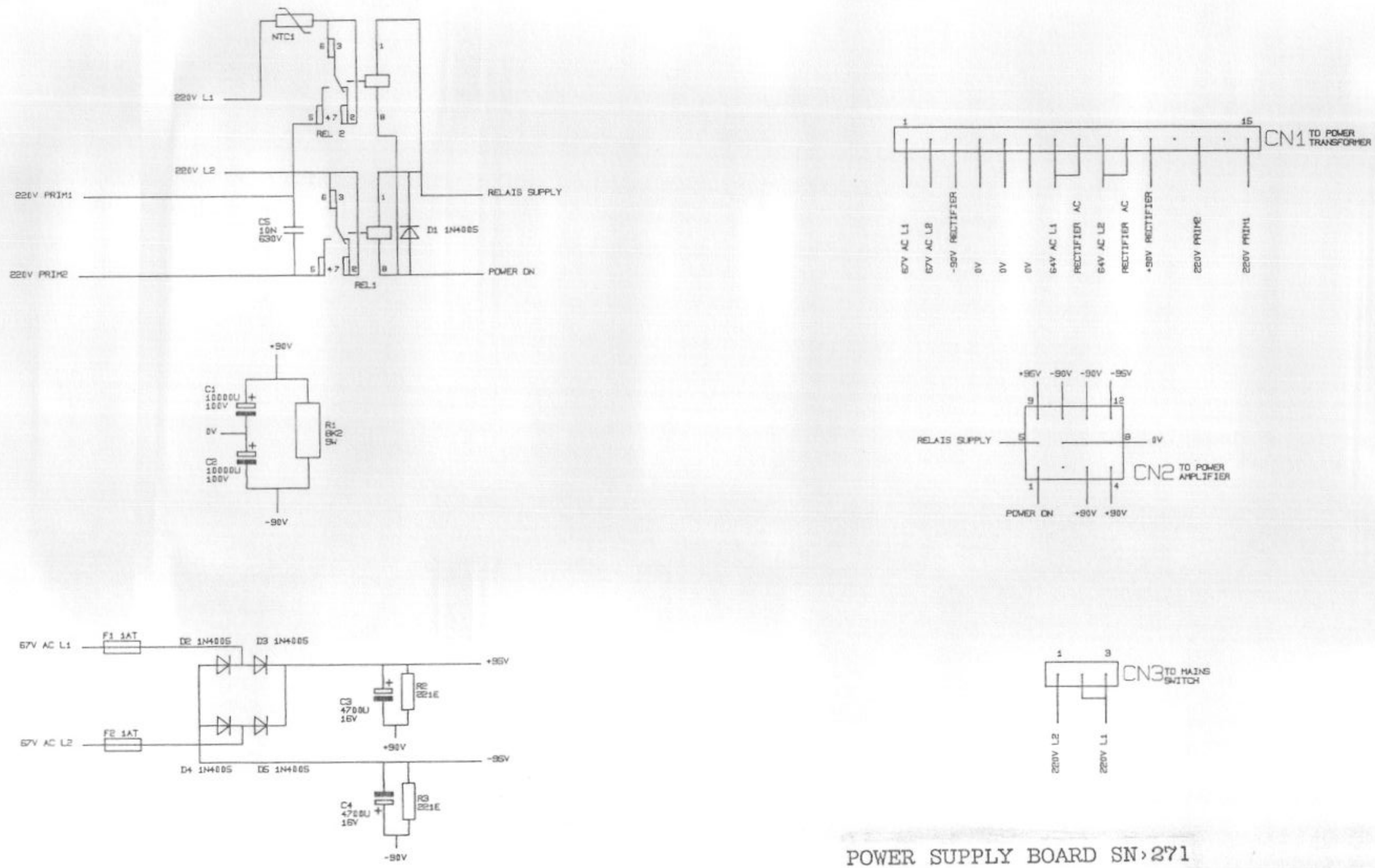
COMPONENT	TYPE	VALUE
X15	C MKM	470N
X12	R	28K7
X13	C MKM	470N
X14	/	/
X11	R	31K6
X1	C MKM	470N
X2	R	21K5
X4	C MKM	470N
X5	R	54K9
X3	R	0E
X6	R	10K
X16	C MKM	144N
X17	R	10K
X18	C MKM	100N
X10	R	0E
X7		
X9	R	0E
X8		OPEN

FILTER BOARD SN›271

STAGE ACCOMPANY
TITLE: PPA1200 FILTERCIRCUIT
REVISIONS MOD 3 | DRAWN: RENE
R | A3 | DATE 02-08-07 | SHEET OF



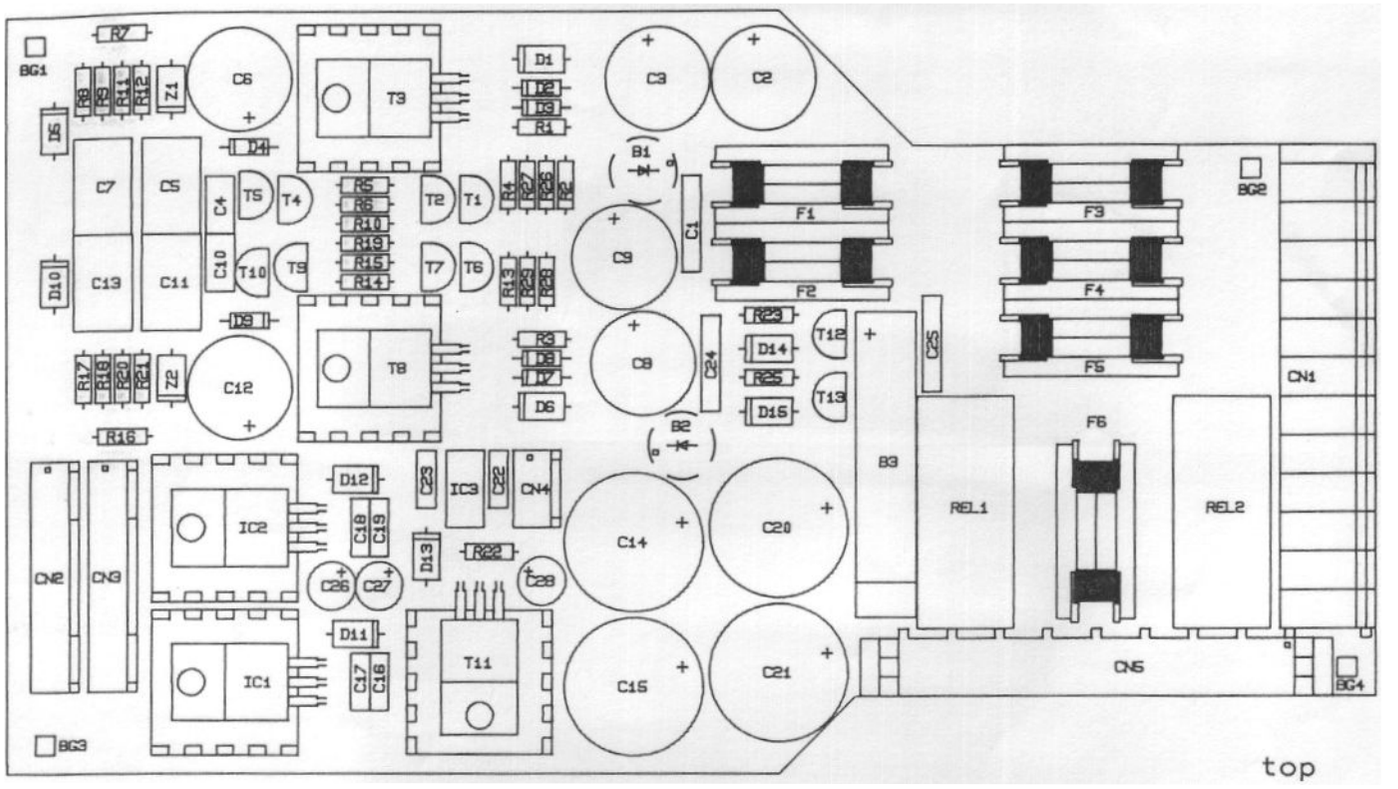
POWER SUPPLY BOARD SN>271

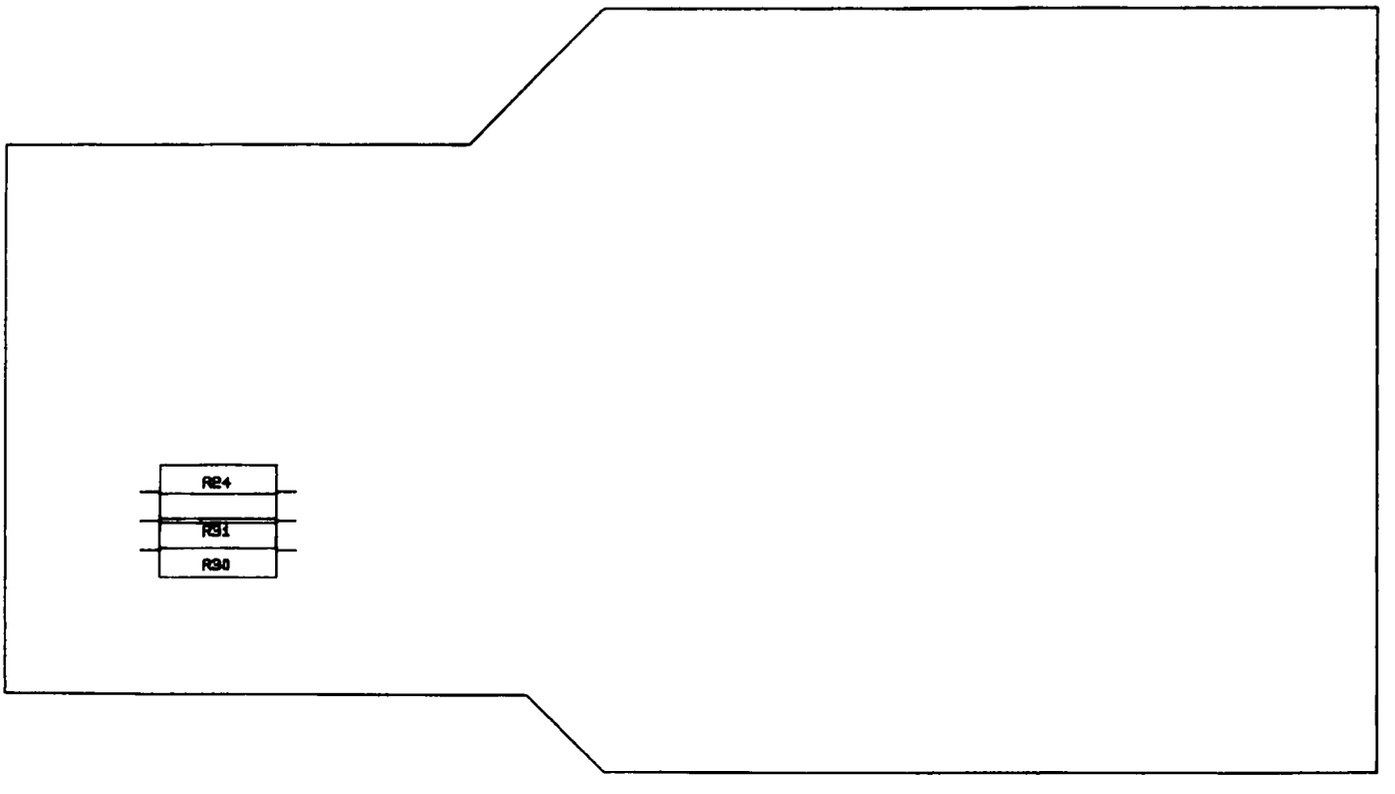


POWER SUPPLY BOARD SN›271

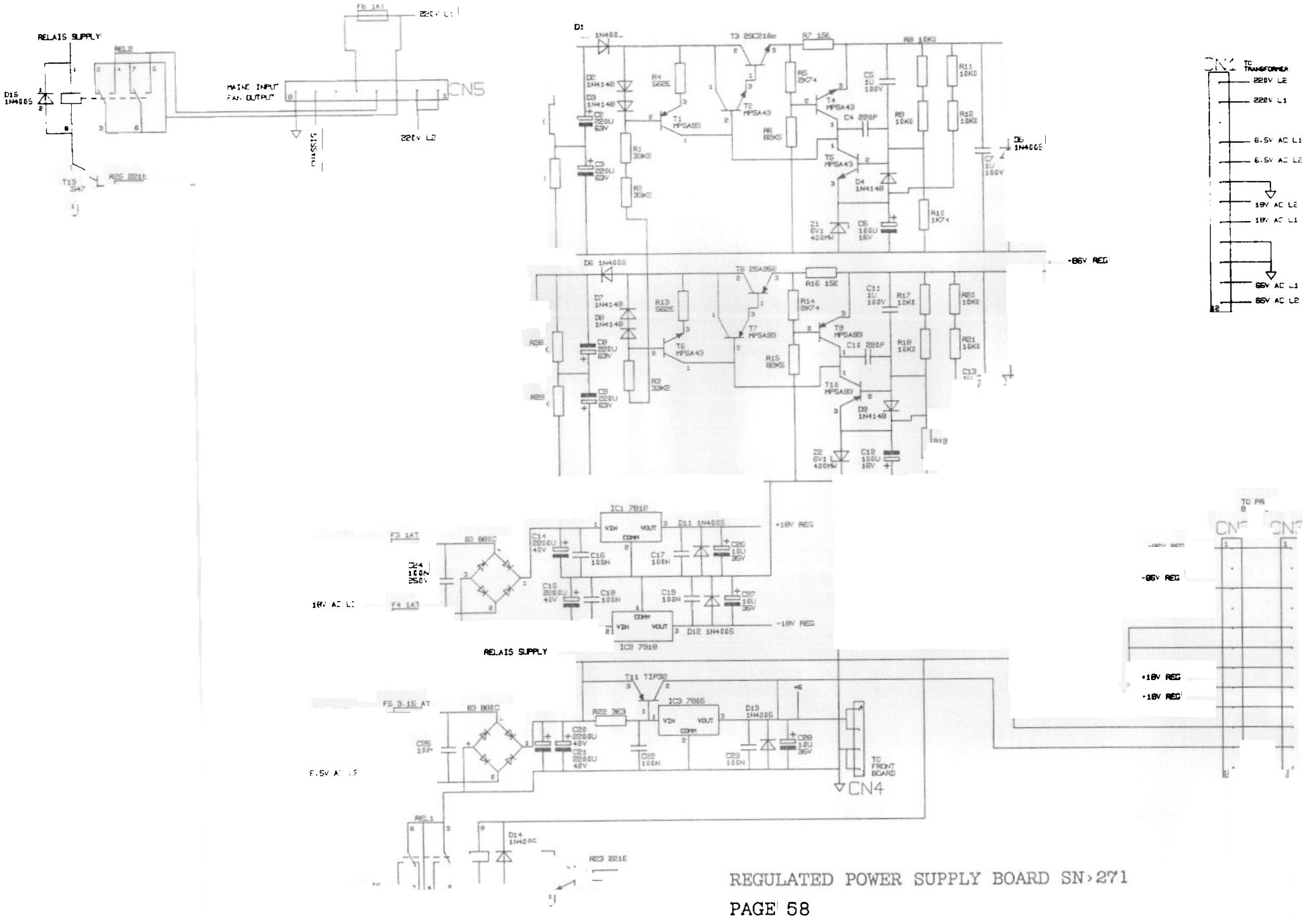
PAGE 56

STAGE ACCOMPANY		
TITLE: PPA1200 POWERSUPPLY CIRCUIT		
REVISIONS		DRAWN: RENE
A1	DATE 20-08-87	SHEET OF



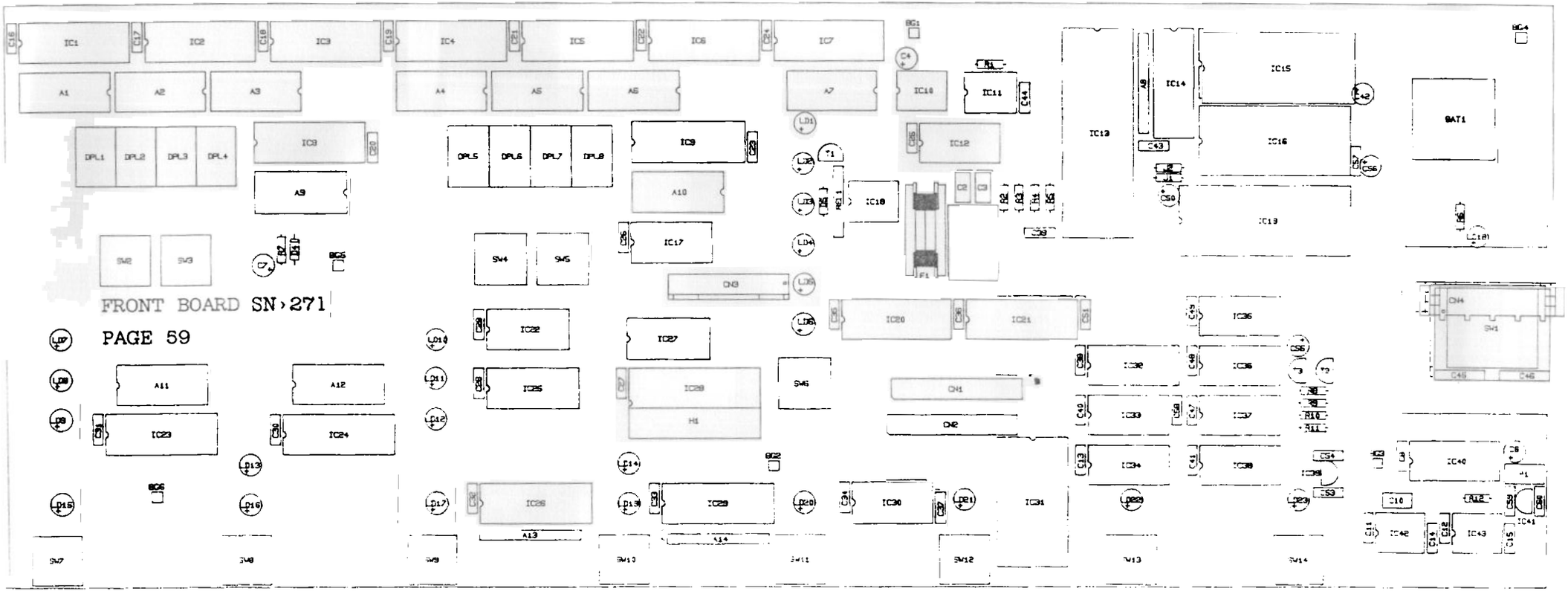


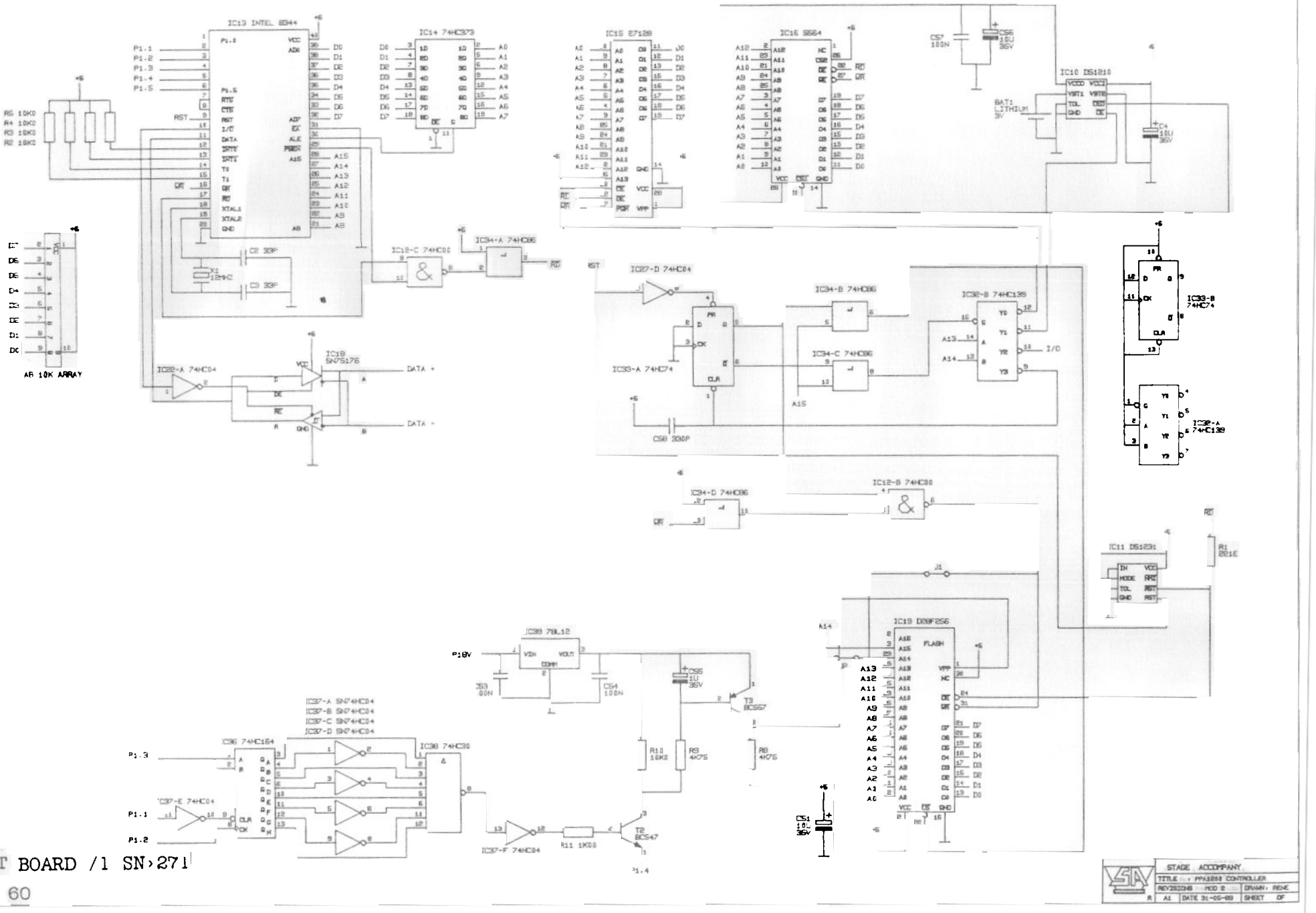
REGULATED POWER SUPPLY BOARD SN>271



REGULATED POWER SUPPLY BOARD SN>271

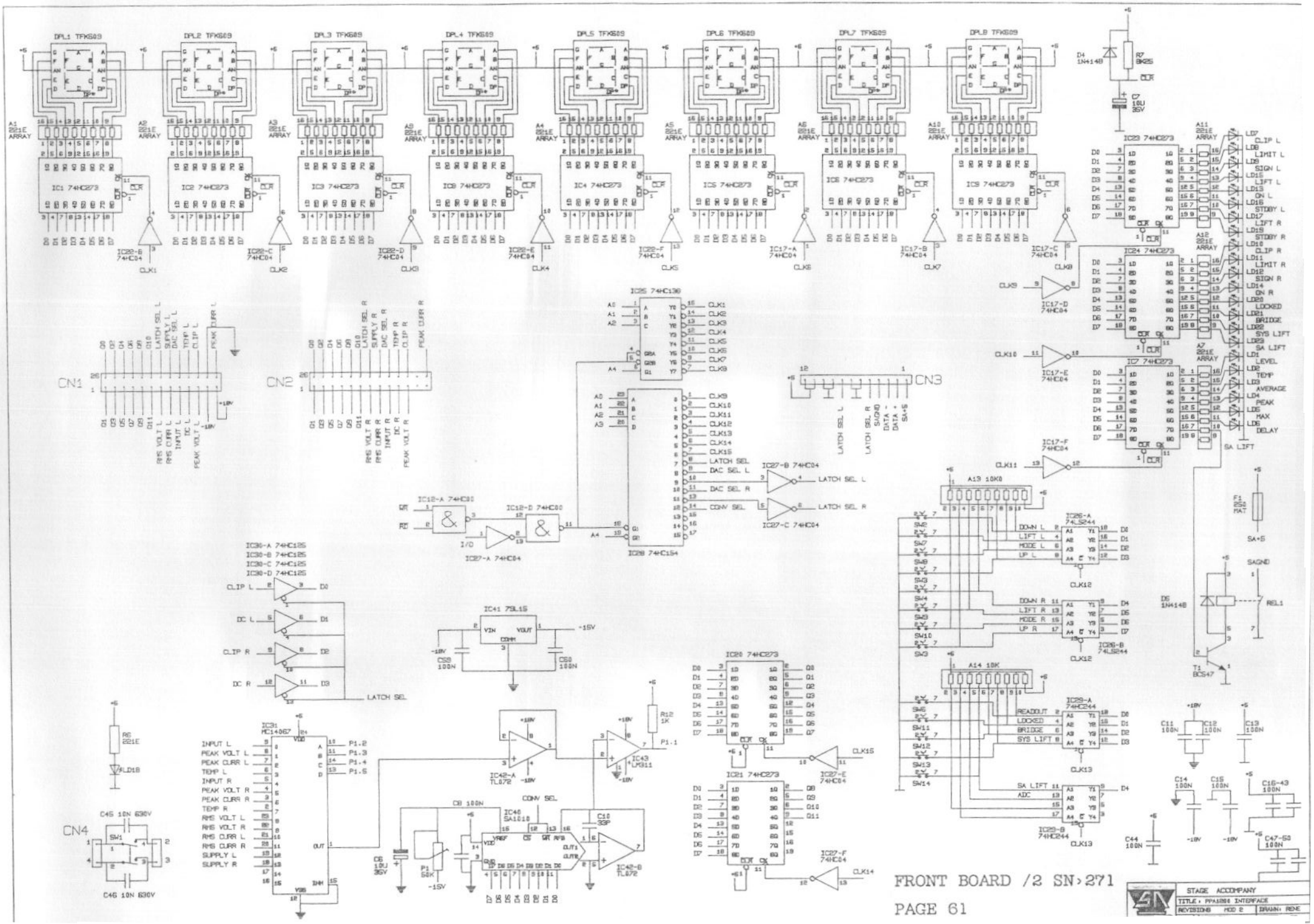
STAGE ACCOMPANY


FRONT BOARD SN›271
PAGE 59



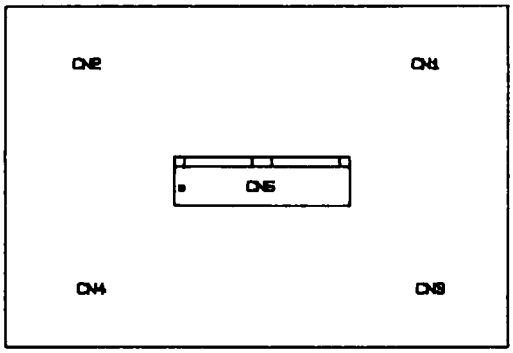
FRONT BOARD /1 SN>271

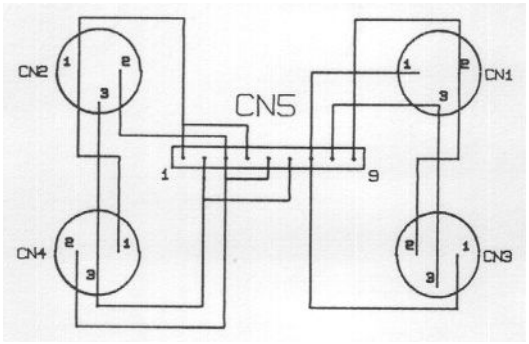
PAGE 60



FRONT BOARD /2 SN>271

PAGE 61





INPUT CONNECTOR BOARD

14 Supplement 4

14.1 Filter board

With the introduction of the Performer series PA systems, four new filter configurations have been designed.

On page 65, all existing filter configurations can be found.

Each software version is matched to a set of filter boards, being:

Standard PPA 1200

Ch.1	Standard version low pass
Ch.2	Standard version high pass
Software	V 2.9

4549 Sub Low PPA 1200

Ch.1	4549 Sub low
Ch.2	4549 Sub low
Software	V 10.8

4549 Mid High PPA 1200

Ch.1	Standard version low pass
Ch.2	4549 / Performer high pass
Software	V 11.8

4528 Sub Low PPA 1200

Ch.1	4528 Sub low version
Ch.2	4528 Sub low version
Software	V 14.8

Performer 4816 Sub low PPA 1200

Ch.1	Performer 4816 version
Ch.2	Performer 4816 version
Software	V 16.0

Performer 4817 Sub low PPA 1200

Ch.1	Performer 4817 version
Ch.2	Performer 4817 version
Software	V 17.0

Performer X-24 & X-26 Mid high PPA 1200

Ch.1	Performer 24/26 low mid version
Ch.2	4549 / Performer high pass
Software	V 18.0

Performer X-27 & X-29 Mid high PPA 1200

Ch.1	Performer 27/29 low mid version
Ch.2	4549 / Performer high pass
Software	V 19.0

14.2 Regulated power supply board

Due to the fact that the PPA 1200 is controlled by a micro processor, the amplifier as a whole is more sensitive to mains voltage variations than a regular amplifier.
As published in our newsletters, Stage Accompany offered an upgrade set for the PPA 1200's 5 volt supply to increase the minimum mains voltage from 180 Volts to 140 Volts.

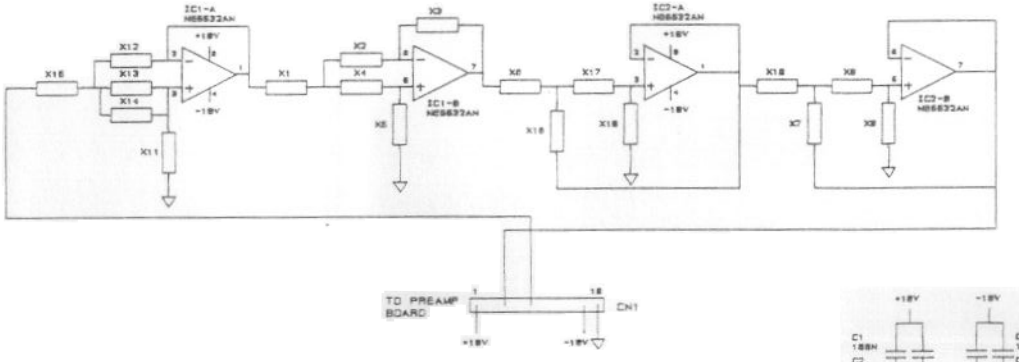
Because of the fact that the upgrade set caused some production problems, the circuit has been removed.

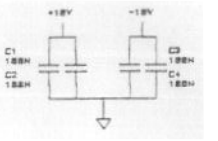
The mains problem has now been solved by a different approach. The transformer voltage has been slightly increased and all relays in the PPA 1200 have been replaced by 12 Volts types (previously 6 Volts). Because of this, the current consumption of the relais supply rail has dropped resulting in more headroom in the 5 volts power supply.

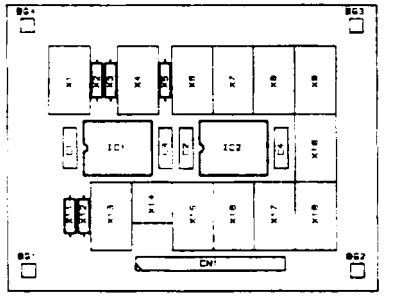
> All PPA 1200's with serial number 9011120503 or higher are equiped with 12 V relays

Because the board was allready redesigned for an integrated upgrade set, you might find either PCB 1531.1201/2 or 1531.1201/3 in PPA 1200's. The component layout of board 1531.1201/2 can be found on pages 66 and 67, those of 1531.1201/3 on page 68 and 69.
Both boards contain identical electronics, of which the schematics can be found on page 70.

Note that pins 2 and 3 of transistor T11 had to be swapped on board 1531.1201/2.







STANDARD VERSION
LOW PASS
4549 LOW MID

COMPONENT	TYPE	VALUE
X16	C MKM	47BN
X12	R	39K7
X13	C MKM	47BN
X14	/	/
X11	R	31K6
X1	C MKM	47BN
X2	R	21K5
X4	C MKM	47BN
X5	R	64K9
X3	R	8E
X8	R	16K4
X15	C FOIL	18N
X17	R	13K8
X18	C FOIL	18N
X18	R	21K5
X7	C FOIL	18N
X9	R	21K5
X8	C FOIL	3N9

STANDARD VERSION
HIGH PASS

COMPONENT	TYPE	VALUE
X16	R	8E
X12	/	/
X13	R	8E
X14	/	/
X11	/	/
X1	R	8E
X2	R	18K8
X4	/	/
X5	/	8E
X3	R	18K8
X8	C FOIL	18N
X15	R	18K8
X17	C FOIL	18N
X18	R	17K8
X18	C FOIL	18N
X7	R	12K1
X9	C FOIL	18N
X8	R	38K1

4549 SUB LOW

COMPONENT	TYPE	VALUE
X16	C MKM	47BN
X12	R	39K7
X13	C MKM	47BN
X14	/	/
X11	R	31K6
X1	C MKM	47BN
X2	R	21K5
X4	C MKM	47BN
X5	R	64K9
X3	R	8E
X8	R	8E
X15		
X17	R	8E
X18		
X18	R	8E
X7		
X9	R	16K2
X8	C MKM	15BN

4549 HIGH PASS
PERFORMER HIGH PASS

COMPONENT	TYPE	VALUE
X16	R	8E
X12	/	/
X13	R	18K8
X14	C FOIL	4N7
X11	R	18K8
X1	R	8E
X2	R	18K8
X4	/	/
X5	/	8E
X3	R	18K8
X8	C FOIL	18N
X15	R	18K8
X17	C FOIL	18N
X18	R	17K8
X18	C FOIL	18N
X7	R	12K1
X9	C FOIL	18N
X8	R	38K1

4528 SUB LOW

COMPONENT	TYPE	VALUE
X16	C MKM	47BN
X12	R	39K7
X13	C MKM	47BN
X14	/	/
X11	R	31K6
X1	C MKM	47BN
X2	R	21K5
X4	C MKM	47BN
X5	R	64K9
X3	R	8E
X8	R	18K
X15	C MKM	144N
X17	R	18K
X18	C MKM	18BN
X18	R	8E
X7		
X9	R	8E
X8		OPEN

PERFORMER
4816

COMPONENT	TYPE	VALUE
X16	C MKM	47BN
X12	R	8K87
X13	C MKM	47BN
X14	/	
X11	R	18K8
X1	C MKM	47BN
X2	R	3K74
X4	C MKM	47BN
X5	R	34K9
X3	R	8E
X8	R	16K4
X15	C MKM	15BN
X17	R	13K8
X18	C MKM	18BN
X18	R	21K5
X7	C MKM	18BN
X9	R	21K5
X8	C MKM	39N

PERFORMER
4817

COMPONENT	TYPE	VALUE
X16	C MKM	47BN
X12	R	8K87
X13	C MKM	47BN
X14	/	
X11	R	18K8
X1	C MKM	47BN
X2	R	3K74
X4	C MKM	47BN
X5	R	34K9
X3	R	8E
X8	R	22K1
X15	C MKM	18BN
X17	R	18K7
X18	C MKM	18BN
X18	R	38K9
X7	C MKM	18BN
X9	R	38K9
X8	C MKM	39N

PERFORMER 24/26
LOW MID

COMPONENT	TYPE	VALUE
X16	C MKM	18BN
X12	R	18K9
X13	C MKM	18BN
X14	/	/
X11	R	17K8
X1	C MKM	18BN
X2	R	13K1
X4	C MKM	18BN
X5	R	38K1
X3	R	8E
X8	R	16K4
X15	C FOIL	18N
X17	R	13K8
X18	C FOIL	18N
X18	R	21K5
X7	C FOIL	18N
X9	R	21K5
X8	C FOIL	3N9

PERFORMER 27/29
LOW MID

COMPONENT	TYPE	VALUE
X16	C MKM	18BN
X12	R	23K7
X13	C MKM	18BN
X14	/	/
X11	R	26K8
X1	C MKM	18BN
X2	R	17K4
X4	C MKM	18BN
X5	R	43K2
X3	R	8E
X8	R	16K4
X15	C FOIL	18N
X17	R	13K8
X18	C FOIL	18N
X18	R	21K5
X7	C FOIL	18N
X9	R	21K5
X8	C FOIL	3N9

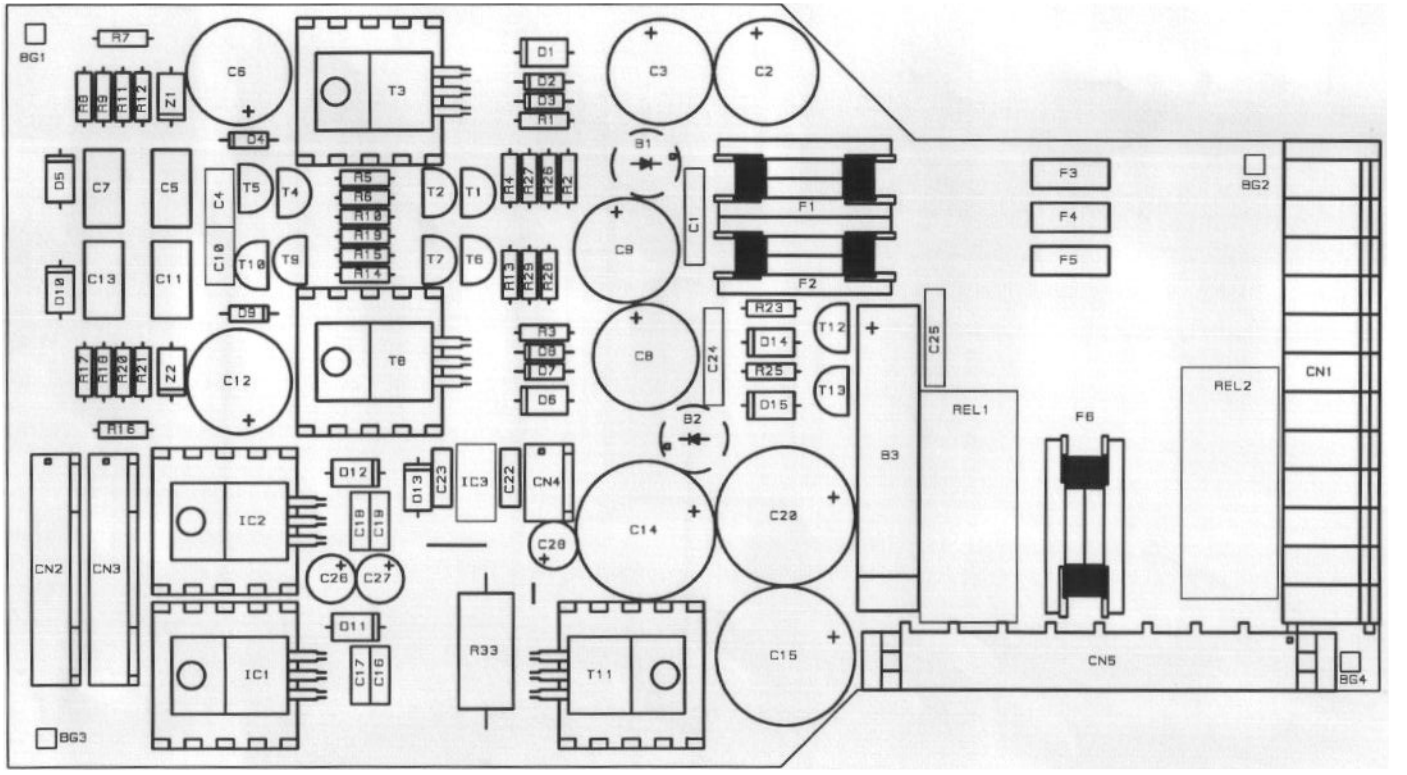
FILTER BOARD

PAGE 65

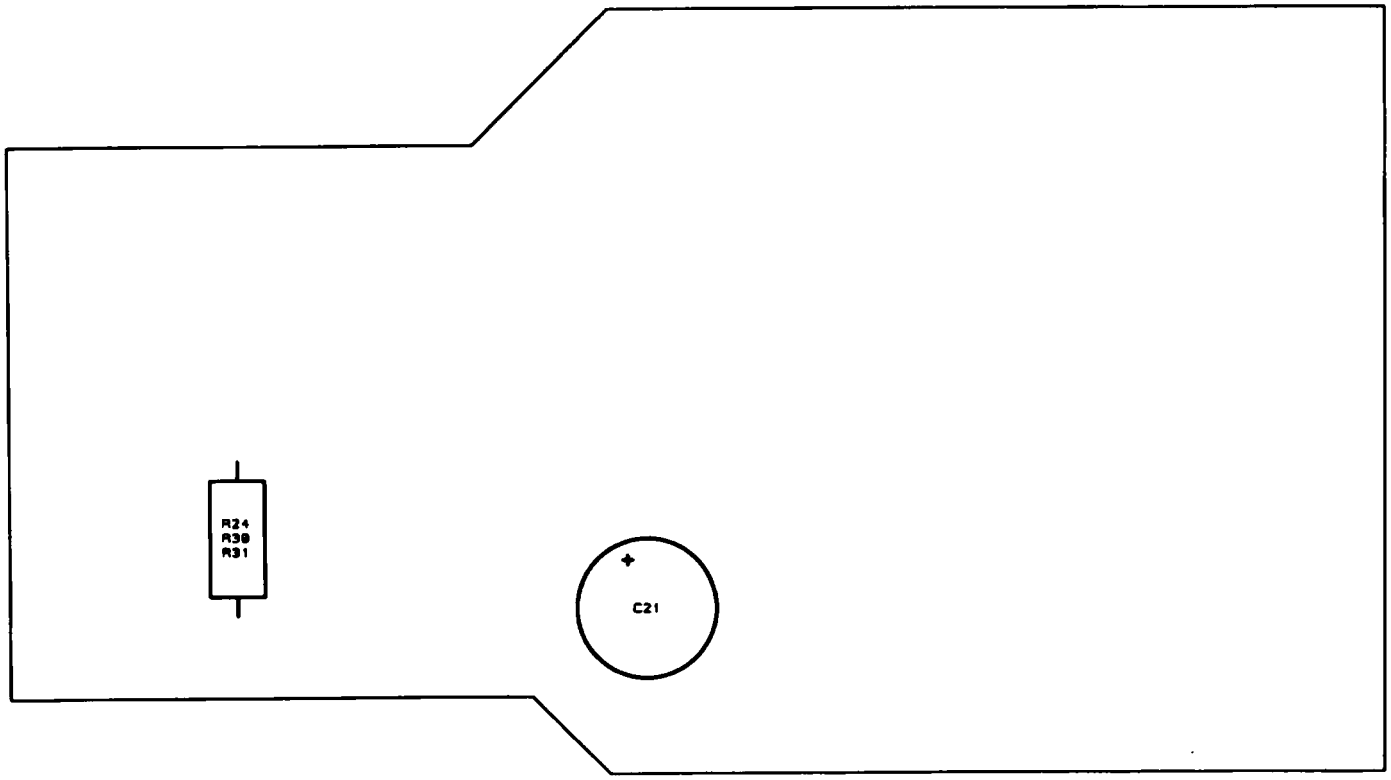
STAGE ACCOMPANY HOORN THE NETHERLANDS

PROJECT: PPA 1288	
CIRCUIT: FILTER CIRCUIT	
DRAWING NO:	UPDATE FROM:
PCB NO: 1631.1285	DRAWN: R. KUIPERS
REMARKS:	DATE: 88-12-02

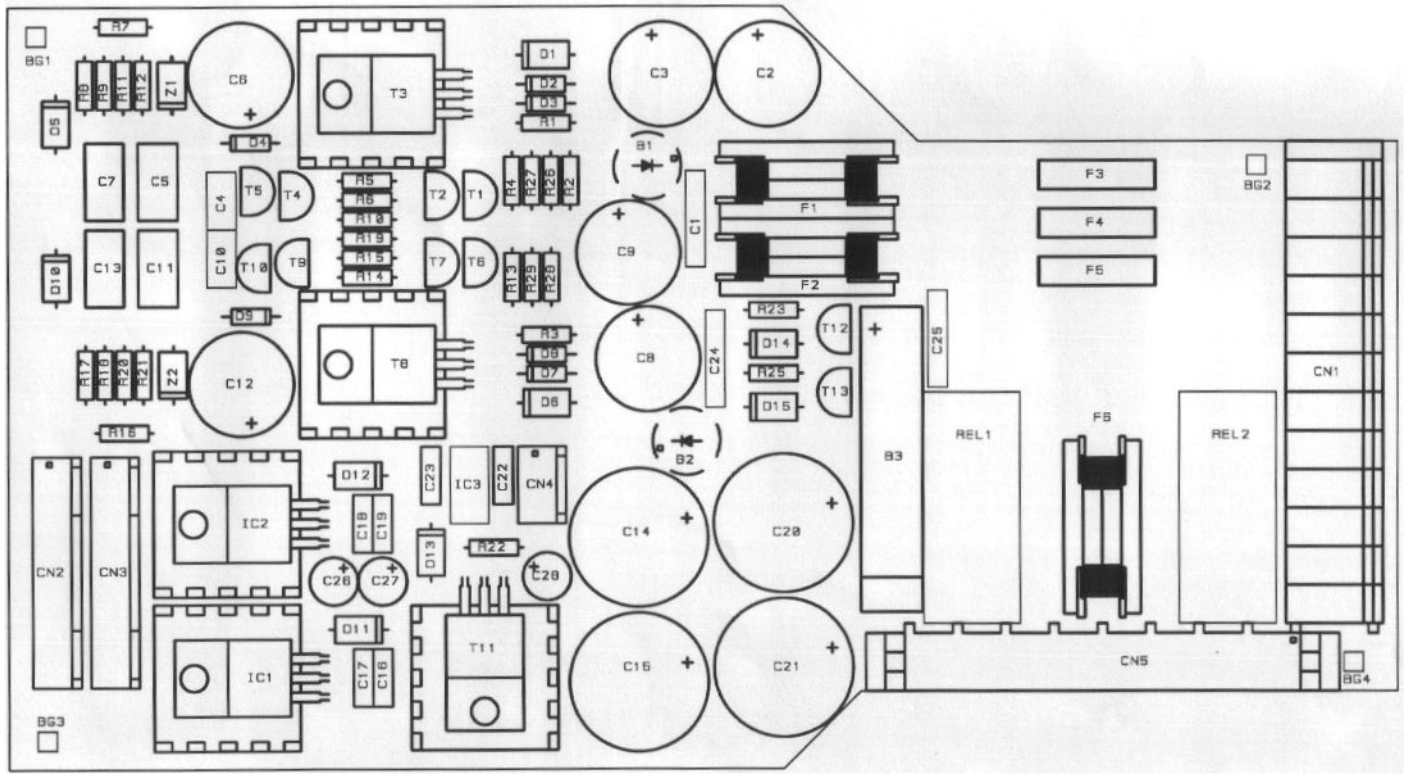
A3



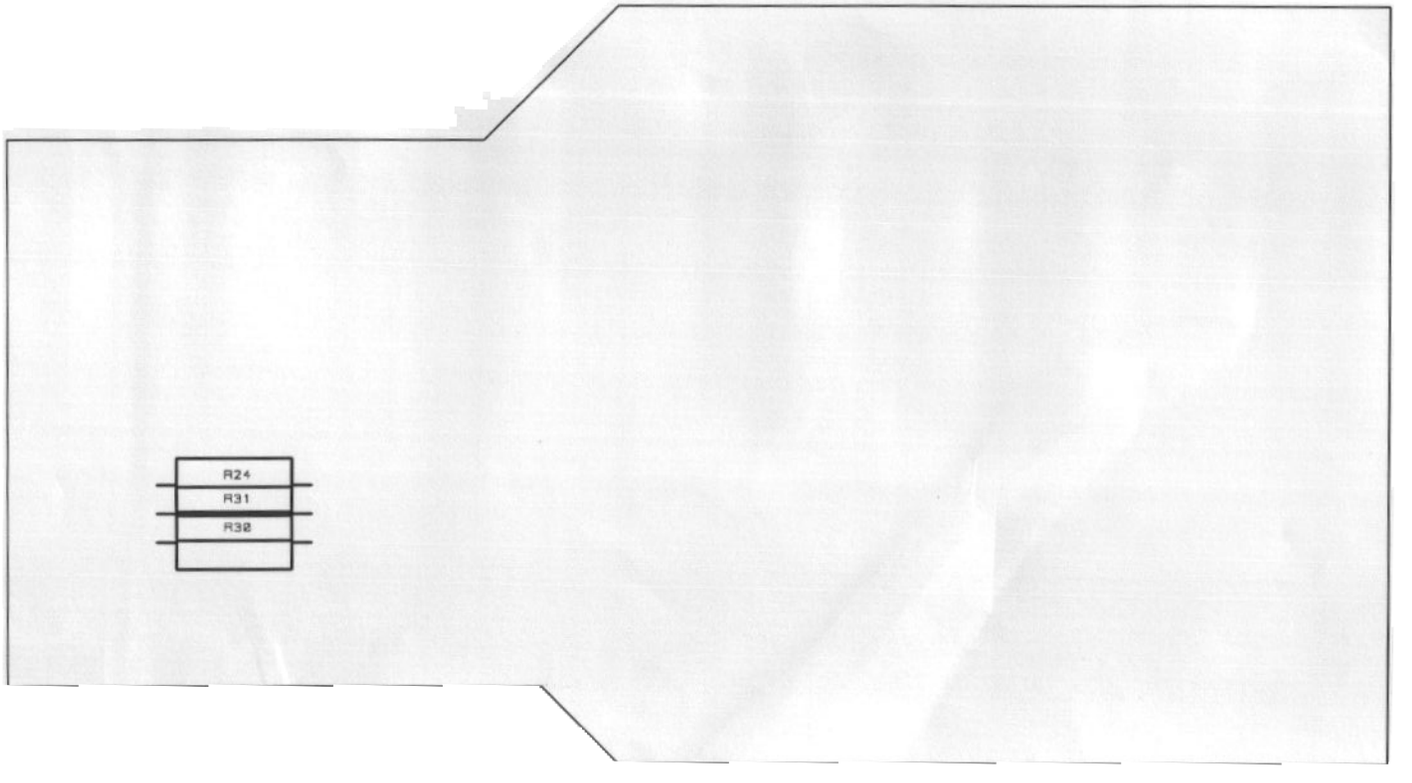
REGULATED POWER
SUPPLY BOARD 1201/2
PAGE 66



REGULATED POWER
SUPPLY BOARD 1201/2



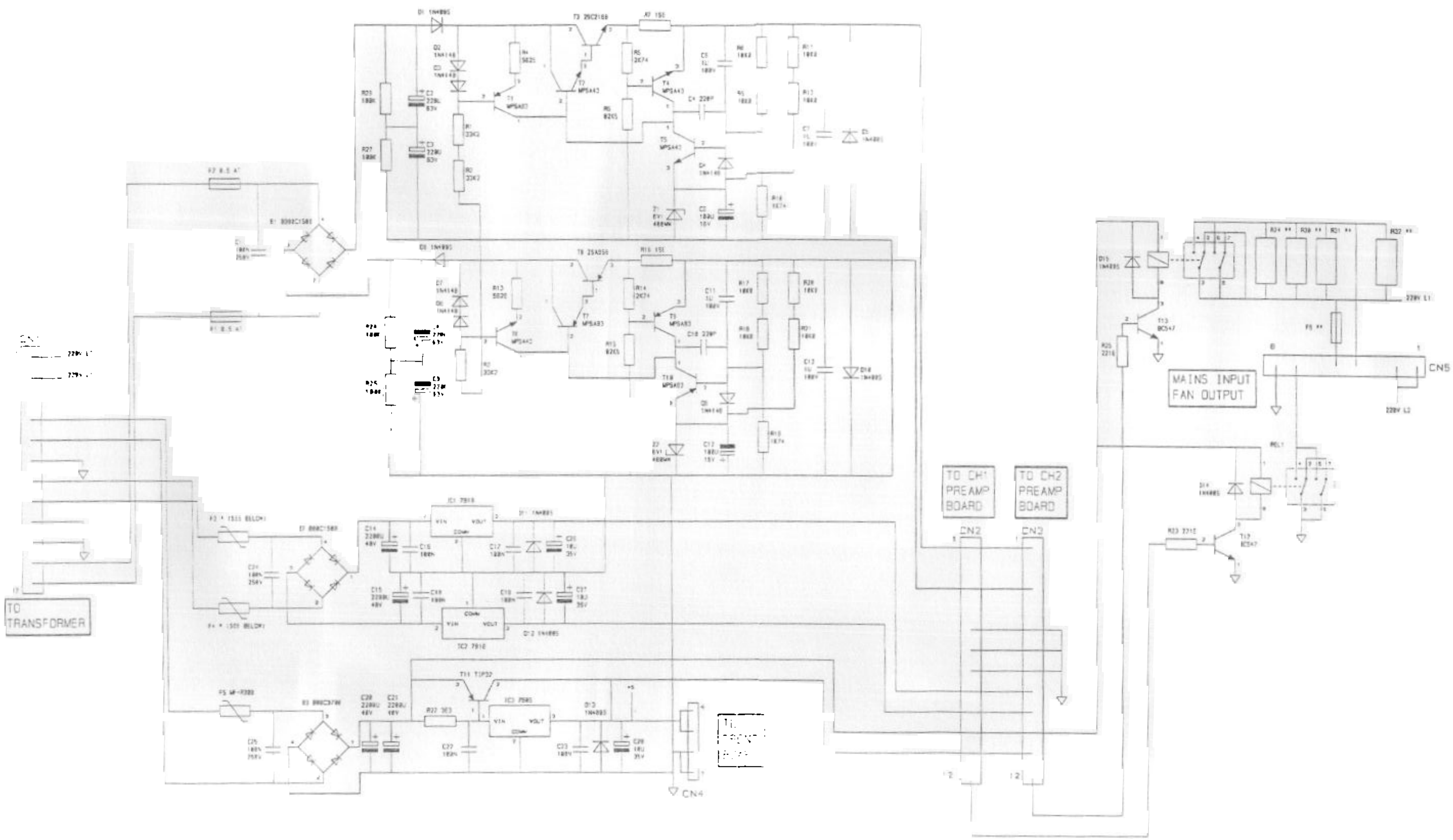
REGULATED POWER
SUPPLY BOARD 1201/3



REGULATED POWER

SUPPLY BOARD 1201/3

PAGE 69



REGULATED POWER SUPPLY BOARD
PAGE 70

SA	STAGE ACCOMPANY	HOORN THE NETHERLANDS
	PROJECT: PPA 1200	
	CIRCUIT: REGULATED POWER SUPPLY	
	DRAWING NO:	UPDATE FROM: 10-06-91
A3	PCB NO: 1531 1281/2,/3	DRAWN: R. KUIPERS
	REMARKS:	DATE: 10-03-93

14.3 Fuses

All fuses in this manual are specified for 220/240V. For 100/110 Volts operation, all fuses at the primary side should be doubled in value.
This means the two fuses on the back of the PPA 1200 and fuse F6 on the regulated power supply board!

Fuse	220/240	100/110	
F6	1AT	2AT	(regulated power supply board)
Channel 1/2	8AT	16AT	(back of amplifier)

Fuses at the secondary side of the transformers remain unchanged.
Note that all fuses are of the slow type, fast types will survive only a few on/off cycles.