LINE AMPLIFIER | MICROPHONE AMPLIFIER | 10 WATTS POWER AMPLIFIER | TONE CONTROLS | DC VOLTAGE REGULATOR | POWER SUPPLY

AMPLIFIER BOARD NO. 15000

INPUTS
R1 1M
R12 47k
PREAMP OUTPUT
PICK UP (HIGH LEV)
RADIO (LOW LEV)

Q101 BC149 B
Q102 BC149 B
Q103 BC149 B
R102 1M
R105 10k
R108 220k
R110 39k
R114 1M
R116 4,7k
C101 2µ 50V
C102 180p
C104 2µ 50V
C105 22µ 25V
C106 180p
C107 2µ 50V
C108 100µ 12V
C109 2µ 50V
C111 80µ 25V
R103 100k
R106 1k
R107 1k
R109 100k
R111 56
R112 27k
R113 22k
R115 100k
R117 470
C112 2µ 50V
1,7V
10,7V
1V
6,5V
12,7V
6V
1,5V
12,4V
0,9V

MICROPHONE 200 OHMS
CHASSIS GND VIA UPPER MOUNTING PLATE ONLY
LINE LEVEL R2 10k log
R3 10k
R4 10k
R5 10k log MIC LEVEL
R6 10k log VOLUME

R118 1k
R126 1k
R120 330k
R123 3,3k
C115 80µ 25V
C116 470p
R127 470k BALANCE ADJ
C114 2µ 50V
C113 0,22µ
R119 1k
R121 12k
R122 330
R124 68
R125 22k
Q104 BC147 B
16,4V
0,7V
0,1V
Q105 BC147 B
0,6V
R129 2k LIN CURRENT ADJ
11,6
R130 130 NTC
Q106 AC127
12,2V
R128 2,2k
R131 56
23,8V
R133 0,47 1W
Q108 AD150
12V
R132 56
R134 0,47 1W
11,8V
Q107 AC 152
Q109 AD 150
C117 1000µ 25V
R135 220
R136 33
C119 0,47µ
C118 0,022µ
C120 350µ 3V
R137 330
C122 2µ 50V
R138 1k
C121 0,33µ
R139 100
CHASSIS GROUND VIA HEAT SINK
T R7 10k SPEC TAPER + TREBLE − B
T R8 10k SPEC TAPER + BASS − B

C123 1000µ 35V
D101 ZF 24
+ 24V
Q112 AD 131
39,5V
C124 0,01µ
R142 18k 1W
R144 130 NTC
Q111 BC 107 B
3V
0,8V
R141 1k
Q110 BC 147 B
2,2V
R145 39k
R140 510
R143 680 1W
C125 1000µ 55V
INT SPEAKER 3 OHMS
INT
BOTH
EXT
R9 4 5W
EXT SPKR 4 OHMS
ALTERNATIVE SPKR JACK

+ 40V
PILOT LAMP 24V 0,05A
SEL RECT B 36 C1200/650 AEG 10747
TRANSF TYPE 291
FUSE 1,6A
MOTOR SP 24,32-2-950
MOTOR SWITCH
C3 0,1µ 250V AC
R10 47
OFF ON
230V~ 50Hz AC 50 WATTS

TRACK SELECTOR CIRCUIT | BUFFER AMP | EQUALIZED REC/PLAY PREAMP | PLAYBACK BOOSTER | IND. AMP | ERASE OSCILLATOR 85,5kHz

REC/PLAY HEAD 39H
CH 1
CH 2
C2 10-60p
BIAS ADJ CH 1
ERASE HEAD 69H
CHASSIS GROUND
FREE HEAD

REC/PLAY HEAD 40H
C1 10-60p
CH 2 BIAS ADJ
C2 10-60p CH 1 BIAS ADJ
ERASE HEAD 41H
R11 51
DUO NORM. EXTRA
CHASSIS GROUND
FREE HEAD

PREAMPLIFIER BOARD NO. 15001

R235 68k
C 126 2µ 50V
R234 1M
R236 680
R237 10k
Q208 BC 149 B
1,1V
0,5V
13,5V
C228 1000p
C227 2µ 50V
REC
PB
AMP

Q201 BC149B
C201 5µ
C232 180p
0,6V (0,85)
C202 80µ 25V
R201 68k
19,5V
1,5V (1,8V)
0,05V (0,25)
C203 68p
R202 680
C224 22µ
R203 10k
R206 10k
Q202 BC149B
11,5V (10V)
1V (1,1V)
R204 100
R205 220k
R233 510
R207 510

C204 0,022µ 5%
R208 56
R209 39 5%
C205 0,047µ 5%
C206 0,15µ 5%
L201
C207 0,022µ
R210 120
R211 120
R212 5,6k 5%
R213 47k
R214 3,3k 5%
R215 33k
C208 0,1µ
C209 2200p
C210 0,022µ
R238 2,2k
R239 100
C225 2,5µ
R216 150k
C211 470p
AMP
PB
REC

Q203 BC107B
11V (9,5)
C212 470p
R217 1k
C213 2µ 50V
20,5V

C214 80µ 25V
C215 0,1µ
R219 68k
C216 2µ 50V
C230 180p
R218 22k
R220 1M 12,7V
R223 4,7k
C217 2µ 50V
Q204 BC 147 B
1V
R225 47k
IND. ADJ.
R221 100k
R224 390
R222 300
24V

R226 1M
(0,5V)
Q205 BC 147 B
(0,1V)
C231 470p
R227 8,2k
C218 8µ
R228 8,2 k

C220 1000p
C221 150-750p
FREQ ADJ.
C229 3300p
T201
C222 1000p
R230 47k
R231 47k
Q206 BC 107 B
Q207 BC107 B
C219 3300p
C223 3300p
R229 120
R232 120
24V (0)

100µA + −
IND.
24 V 0,05A
RECORD INDICATOR

2 TRACK
4 TRACK

Transformer connections
230V
115V

Motor connections
230V
115V

NOTES:

○23 = connection point

Resistors indicated in ohms unless otherwise specified.
k = 1000 ohms M = 1000 000 ohms

All DC-voltages measured without signal.

Voltages given in paranthesis refer to record position

SENSITIVITY 400 Hz

○	RECORD		PLAYBACK	AMPLIFIER	
	LINE	MIC		LINE	MIC
1	5mV			5 mV	
2	22mV			22 mV	
3		0,15mV			0,15mV
4		5mV			5mV
5		22mV			22mV
6	10 mV			10 mV	
7	55 mV			55 mV	
8	55m V		0,25 mV		
9	2,5 V		55 mV		
10	2,5 V		55 mV		
11			300 mV		
12	55 mV		55 mV	55 mV	
13	6,3 V		6,3V	6,3 mV	

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Ned. Ver. v. Historie v/d Radio

Schematic series 15, 2-track and 4-track models.