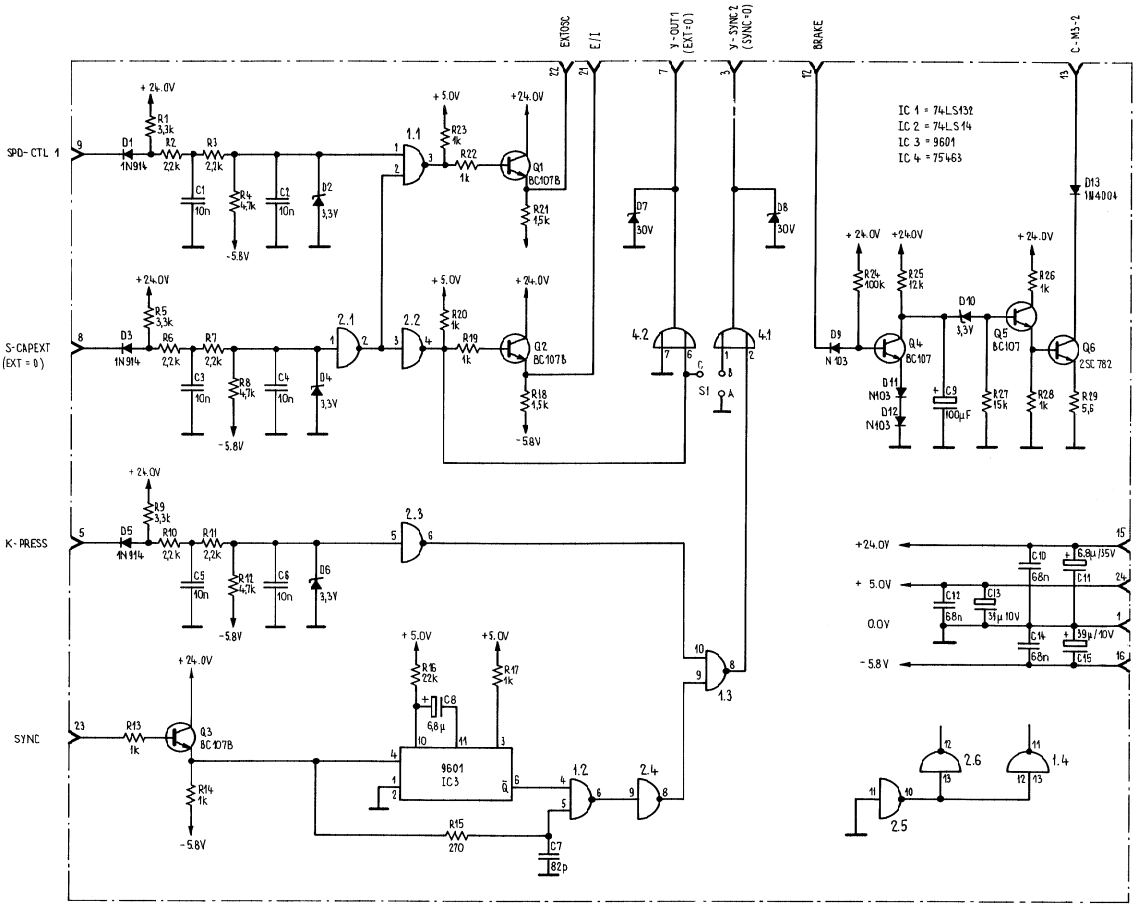
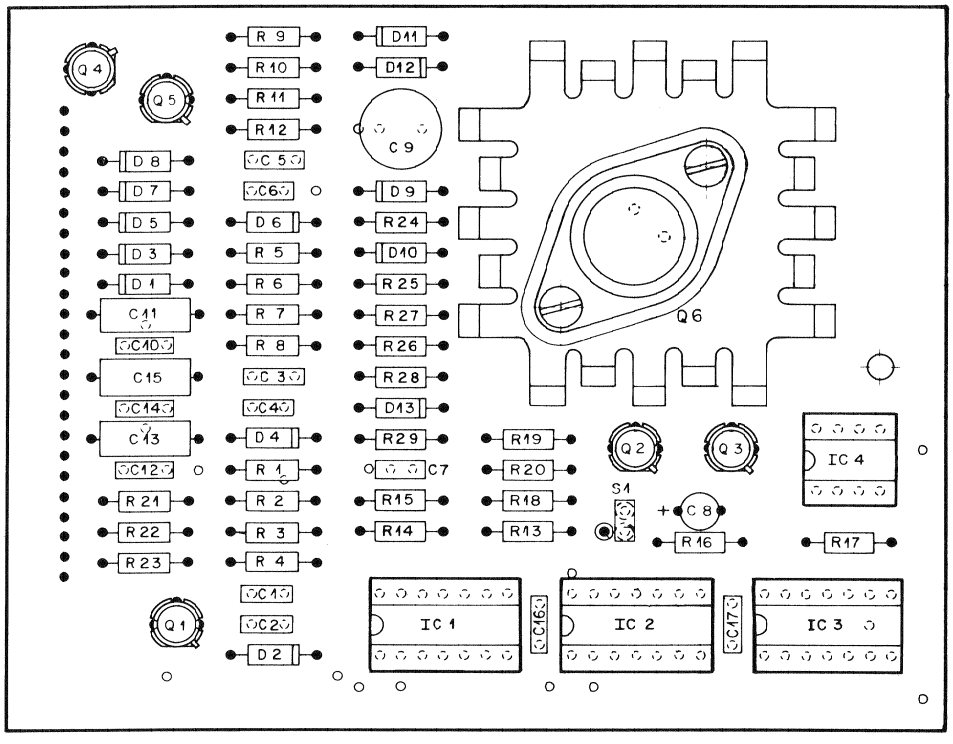
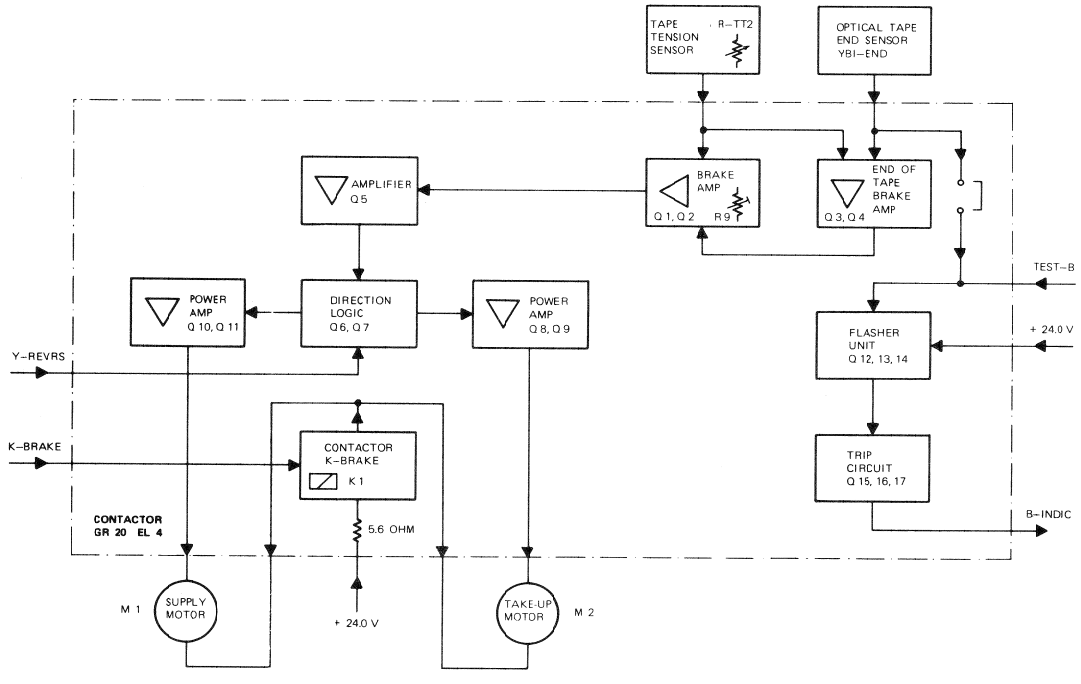
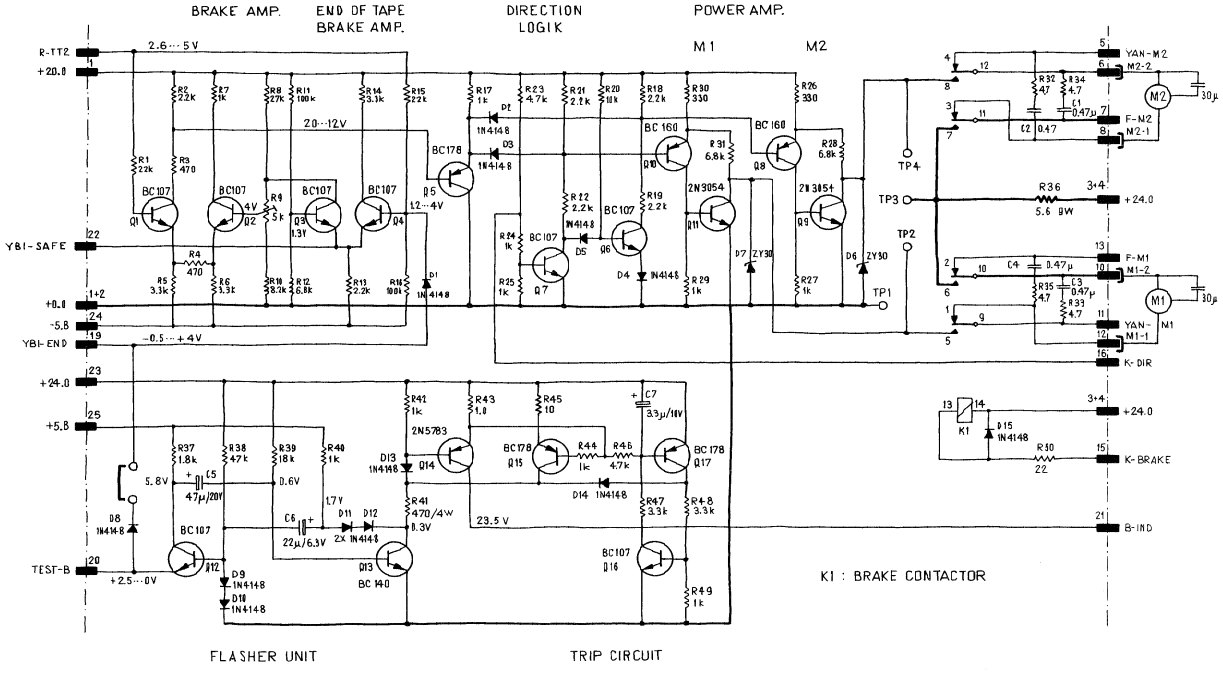


STUDER	1.081.372
ADDITIONAL CAPSTAN BOARD	
TLS 2000 (A80/VU, GR 20/EL 6)	ED 2 7.77

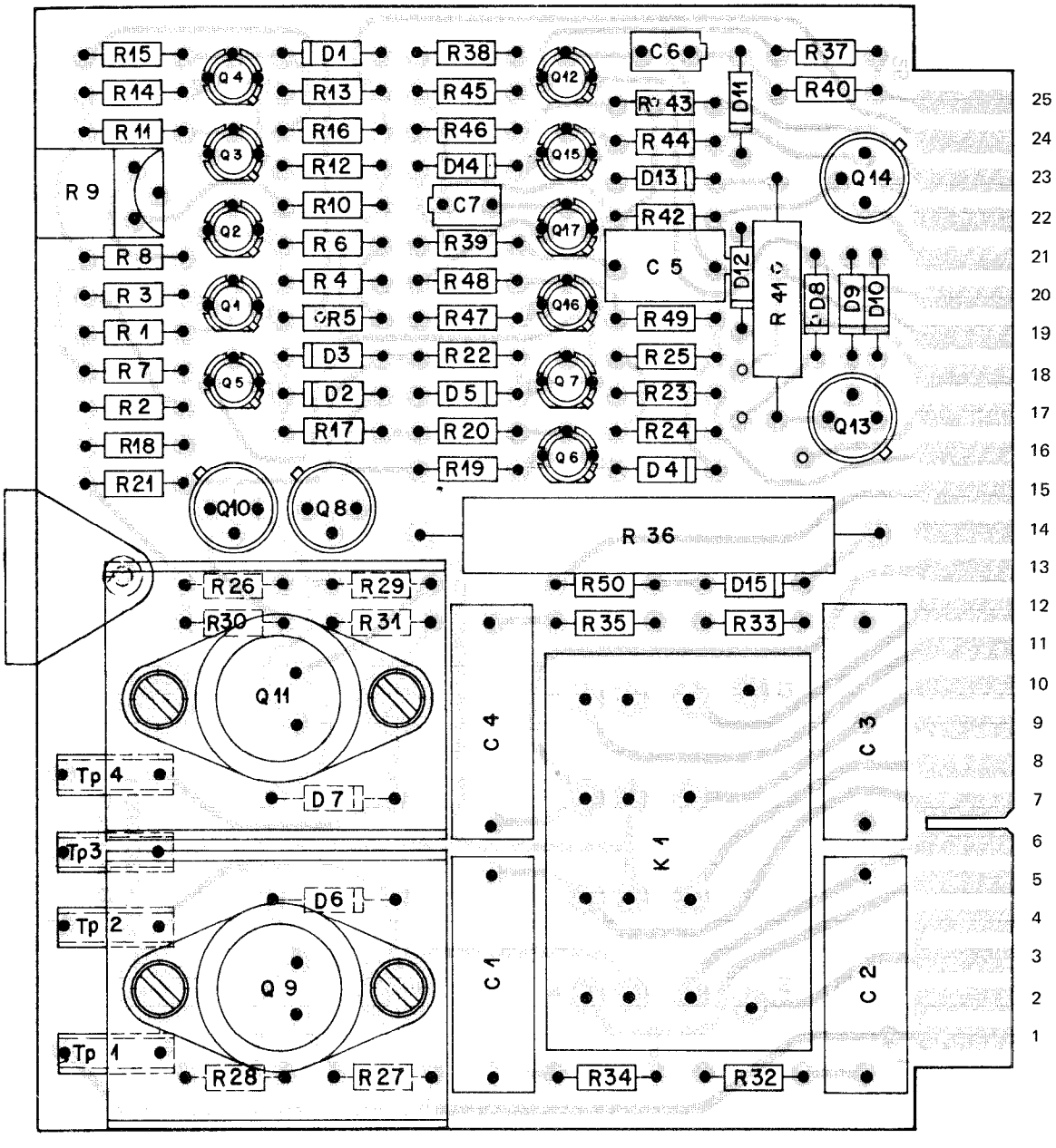


	FIRST	LAST
C	1	17
D	1	13
IC	1	4
R	1	29
Q	1	6


TAPE TENSION SENSOR
R–TT2
OPTICAL TAPE END SENSOR
YBI–END
AMPLIFIER Q5
BRAKE AMP
Q1, Q2
R9
END OF TAPE BRAKE AMP
Q3, Q4
TEST–B
POWER AMP Q10, Q11
DIRECTION LOGIC Q6, Q7
POWER AMP Q8, Q9
FLASHER UNIT Q12, 13, 14
+ 24.0 V
Y–REVRS
K–BRAKE
CONTACTOR K–BRAKE
K1
TRIP CIRCUIT Q15, 16, 17
B–INDIC
CONTACTOR GR 20 EL 4
5.6 OHM
M1
SUPPLY MOTOR
+ 24.0 V
TAKE-UP MOTOR
M2



CONTACTOR "A" **GR 20 EL 4**
PC CARD **1.080.381**

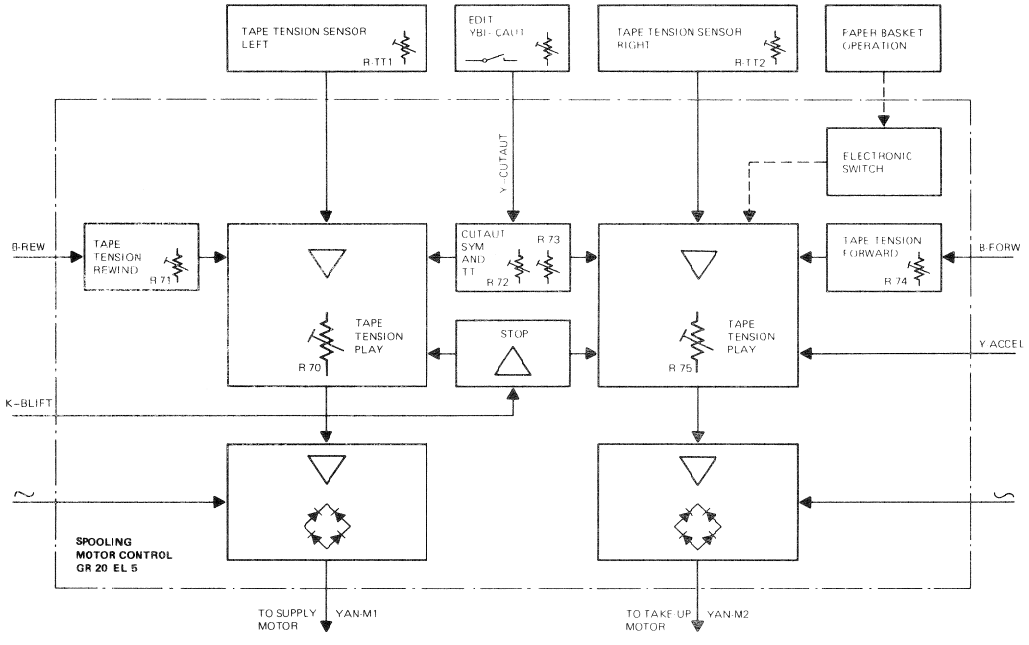


	FIRST	LAST	MISSING
C	1	7	—
D	1	15	—
Q	1	17	—
R	1	50	—

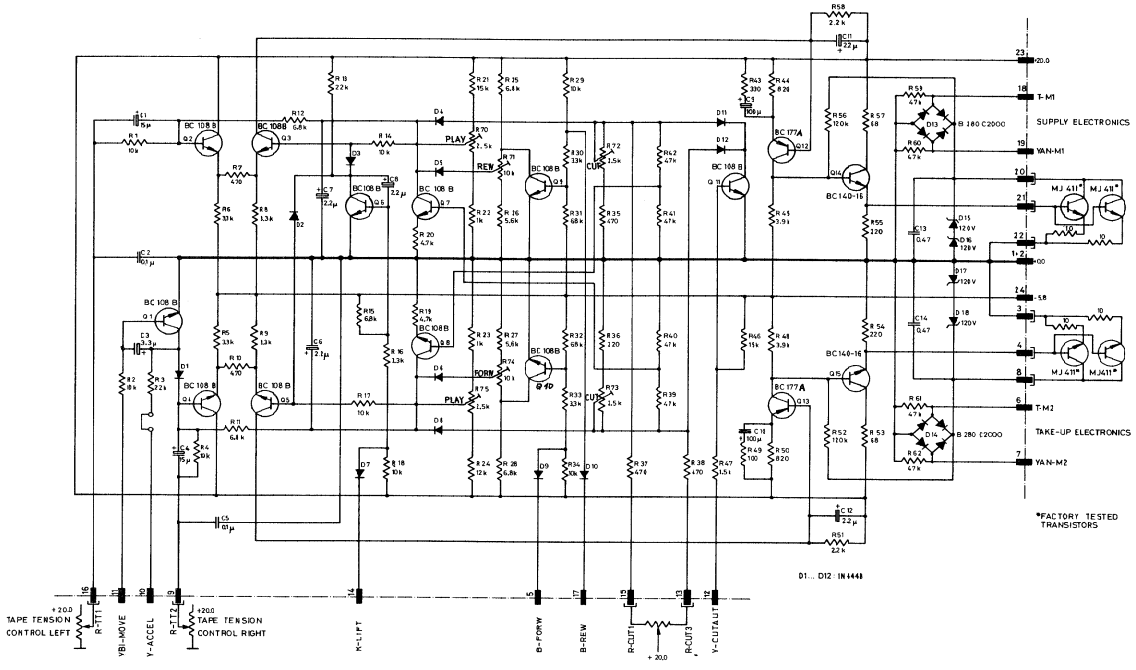
			Unspezified carbon film resistors: 1/8 W – 5%	* * Commercial types
IDENTIFICATION	PART NAME	TYPE / REMARKS	SPECIFICATIONS	ORDER NUMBER
	Contactor "A"	Board assembled		1.080.381
C 1	Capacitor	metallized paper	0,47 µ F – 10% – 150 V	* *
C 2	Capacitor	metallized paper	0,47 µ F – 10% – 150 V	* *
C 3	Capacitor	metallized paper	0,47 µ F – 10% – 150 V	* *
C 4	Capacitor	metallized paper	0,47 µ F – 10% – 150 V	* *
C 5	Capacitor	tantalum	47 µ F – 20% – 20 V	* *
C 6	Capacitor	tantalum	22 µ F – 20% – 6,3 V	* *
C 7	Capacitor	tantalum	3,3 µ F – 20% – 20 V	* *
D 1	Si – Diode	1 N 914		* *
D 2	Si – Diode	1 N 914		* *
D 3	Si – Diode	1 N 914		* *
D 4	Si – Diode	1 N 914		* *
D 5	Si – Diode	1 N 914		* *
D 6	Zener – Diode		30 V – 5% – 1,3 W	* *
D 7	Zener – Diode		30 V – 5% – 1,3 W	* *
D 8	Si – Diode	1 N 914		* *
D 9	Si – Diode	1 N 914		* *
D 10	Si – Diode	1 N 914		* *
D 11	Si – Diode	1 N 914		* *
D 12	Si – Diode	1 N 914		* *
D 13	Si – Diode	1 N 914		* *
D 14	Si – Diode	1 N 914		* *
D 15	Si – Diode	1 N 914		* *
K 1	Contactor	24 V		56.02.0108
Q 1	Transistor	BC 107 A		* *
Q 2	Transistor	BC 107 A		* *
Q 3	Transistor	BC 107 A		* *
Q 4	Transistor	BC 107 A		* *
Q 5	Transistor	BC 178 B		* *
Q 6	Transistor	BC 107 A		* *
Q 7	Transistor	BC 107 A		* *
Q 8	Transistor	BC 160 – 16		* *
Q 9	Transistor	2 N 5054		* *
Q 10	Transistor	BC 160 – 16		* *
Q 11	Transistor	2 N 5054		* *
Q 12	Transistor	BC 107 A		* *
Q 13	Transistor	BC 140 – 16		* *
Q 14	Transistor	2 N 5783		* *
Q 15	Transistor	BC 178 B		* *
Q 16	Transistor	BC 107 A		* *
Q 17	Transistor	BC 178 B		* *

			Unspezified carbon film resistors: 1/8 W – 5%	* * Commercial types
IDENTIFI-CATION	PART NAME	TYPE / REMARKS	SPECIFICATIONS	ORDER NUMBER
R 1	Resistor	carbon film	22 k	* *
R 2	Resistor	carbon film	2,2 k	* *
R 3	Resistor	carbon film	470	* *
R 4	Resistor	carbon film	470	* *
R 5	Resistor	carbon film	3,3 k	* *
R 6	Resistor	carbon film	3,3 k	* *
R 7	Resistor	carbon film	1 k	* *
R 8	Resistor	carbon film	33 k	* *
R 9	Potentiometer		5 k lin.– 10% – 0,5 W	* *
R 10	Resistor	carbon film	8,2 k	* *
R 11	Resistor	carbon film	100 k	* *
R 12	Resistor	carbon film	6,8 k	* *
R 13	Resistor	carbon film	2,2 k	* *
R 14	Resistor	carbon film	3,3 k	* *
R 15	Resistor	carbon film	22 k	* *
R 16	Resistor	carbon film	100 k	* *
R 17	Resistor	carbon film	1 k	* *
R 18	Resistor	carbon film	2,2 k	* *
R 19	Resistor	carbon film	2,2 k	* *
R 20	Resistor	carbon film	10 k	* *
R 21	Resistor	carbon film	2,2 k	* *
R 22	Resistor	carbon film	2,2 k	* *
R 23	Resistor	carbon film	4,7 k	* *
R 24	Resistor	carbon film	1 k	* *
R 25	Resistor	carbon film	1 k	* *
R 26	Resistor	carbon composition	330 – 10% –0,25 W	* *
R 27	Resistor	carbon composition	1 k – 10% –0,25 W	* *
R 28	Resistor	carbon composition	6,8 k – 10% –0,25 W	* *
R 29	Resistor	carbon composition	1 k – 10% –0,25 W	* *
R 30	Resistor	carbon composition	330 – 10% –0,25 W	* *
R 31	Resistor	carbon composition	6,8 k – 10% –0,25 W	* *
R 32	Resistor	carbon composition	4,7 – 10% –0,25 W	* *
R 33	Resistor	carbon composition	4,7 – 10% –0,25 W	* *
R 34	Resistor	carbon composition	4,7 – 10% –0,25 W	* *
R 35	Resistor	carbon composition	4,7 – 10% –0,25 W	* *
R 36	Resistor	wire – wound	5,6 – 10% – 10 W	* *
R 37	Resistor	carbon film	1,8 k	* *
R 38	Resistor	carbon film	47 k	* *
R 39	Resistor	carbon film	18 k	* *
R 40	Resistor	carbon film	1 k	* *
R 41	Resistor	wire – wound	470 – 5% – 4,2 W	* *
R 42	Resistor	carbon film	1 k	* *
R 43	Resistor	carbon film	1	* *
R 44	Resistor	carbon film	1 k	* *
R 45	Resistor	carbon film	10	* *
R 46	Resistor	carbon film	4,7 k	* *
R 47	Resistor	carbon film	3,3 k	* *
R 48	Resistor	carbon film	3,3 k	* *
R 49	Resistor	carbon film	1 k	* *

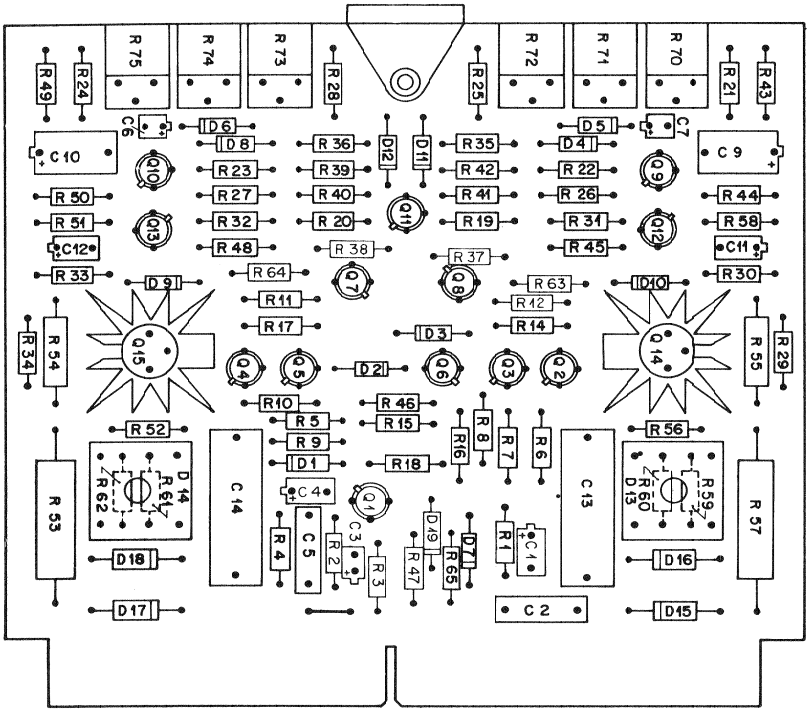
			Unspezified carbon film resistors: 1/8 W – 5%	* * Commercial types
IDENTIFI-CATION	PART NAME	TYPE / REMARKS	SPECIFICATIONS	ORDER NUMBER
R 50	Resistor	carbon composition	22 – 10% –0,25 W	* *
TP 1	Jack		2 mm – blk	54.01.0010
TP 2	Jack		2 mm – yel	54.01.0014
TP 3	Jack		2 mm – wht	54.01.0019
TP 4	Jack		2 mm – blu	54.01.0016

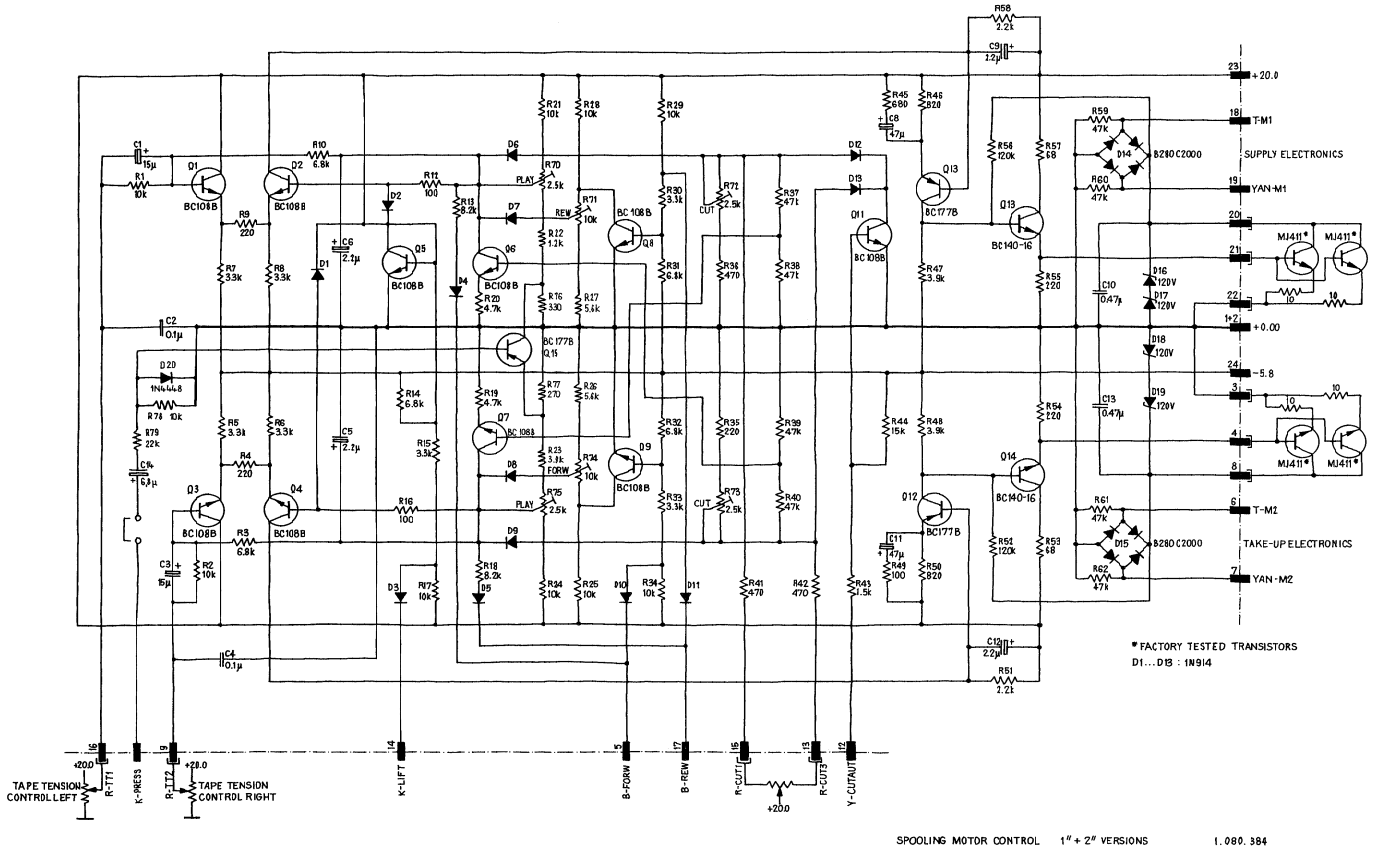


SPOOLING MOTOR CONTROL
1.080.383/384



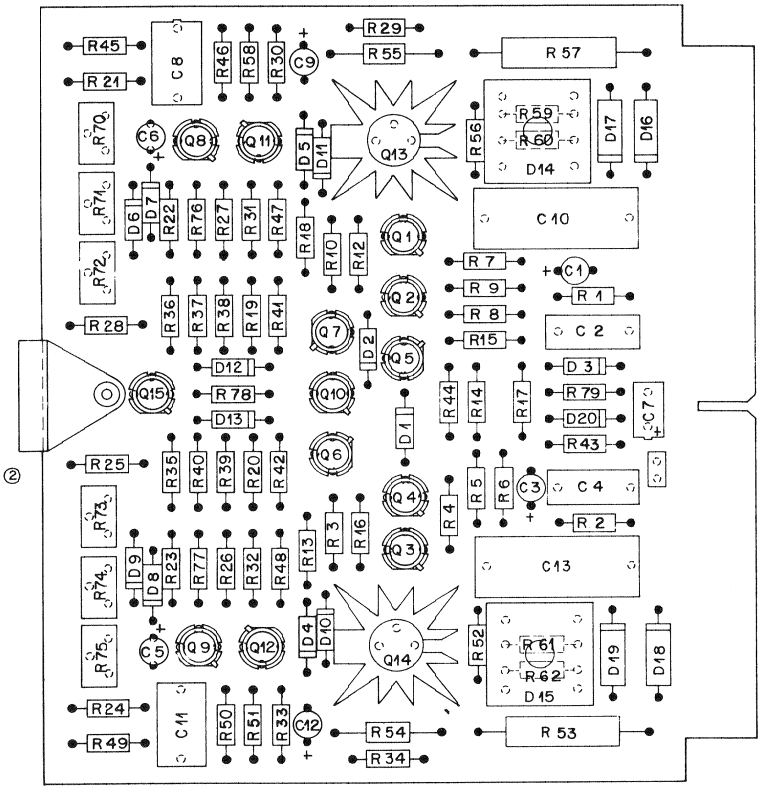
STUDER	1.080.383
SPOOLING MOTOR CONTROL	
A 80 RC	Ed.3 3.77

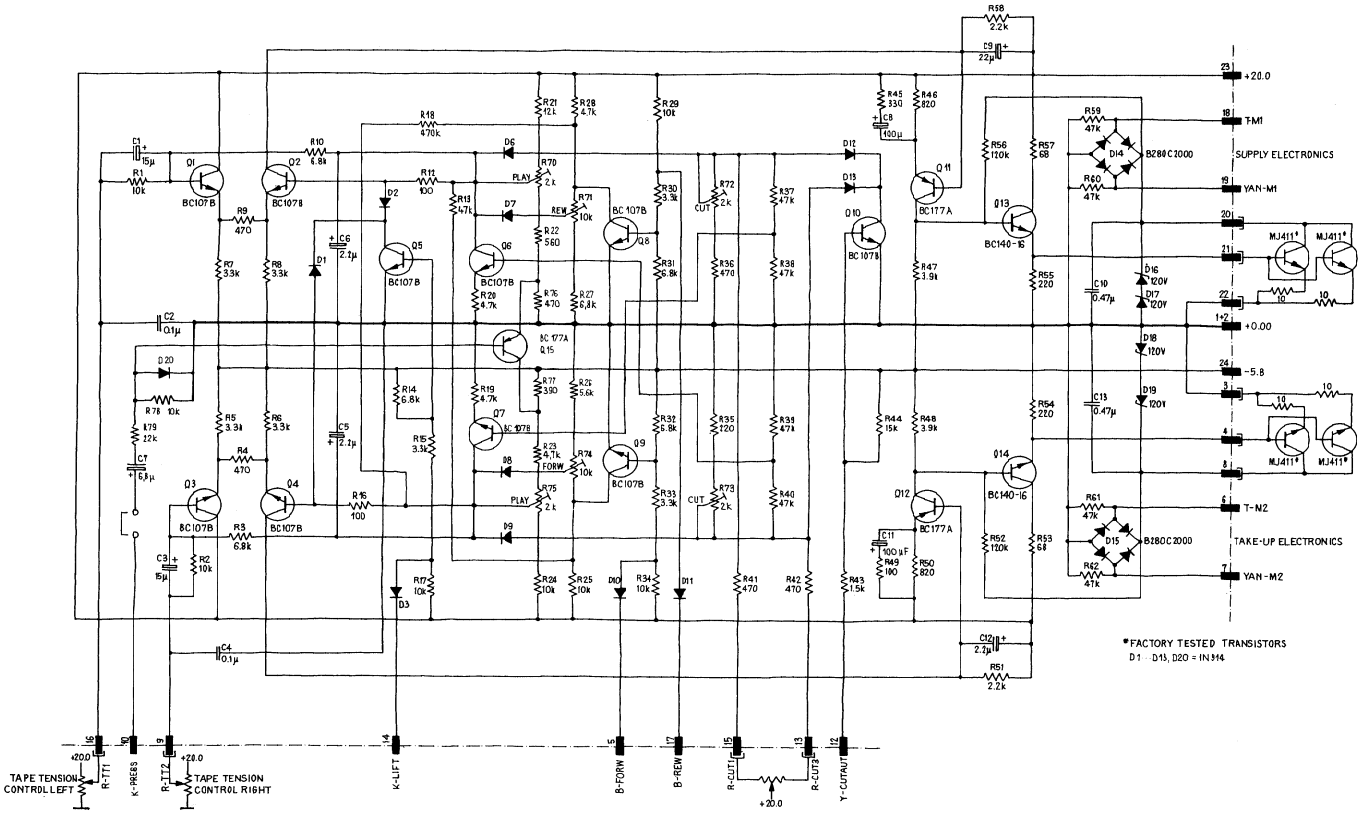

R 75
R 74
R 73
R 72
R 71
R 70
R 49
R 24
R 28
R 25
R 21
R 43
C6
C7
C 10
C 9
D 6
D 8
D 5
D 4
R 36
R 39
R 40
R 20
R 35
R 42
R 41
R 19
R 22
R 26
R 31
R 44
R 58
R 50
R 51
R 23
R 27
R 32
R 48
R 38
R 37
R 64
R 63
R 12
R 45
C12
C11
R 33
R 30
D 9
D10
R 11
R 17
R 14
D 3
D 2
R 34
R 54
R 55
R 29
R10
R 46
R 15
R 52
R 5
R 9
D 1
R 18
R16
R 8
R 7
R 6
R 56
R 53
C 14
C 4
C 5
C 3
R 4
R 2
R 3
R 47
D19
R 65
D 7
R 1
C 1
C 13
R 57
D 18
D 16
D 17
C 2
D 15



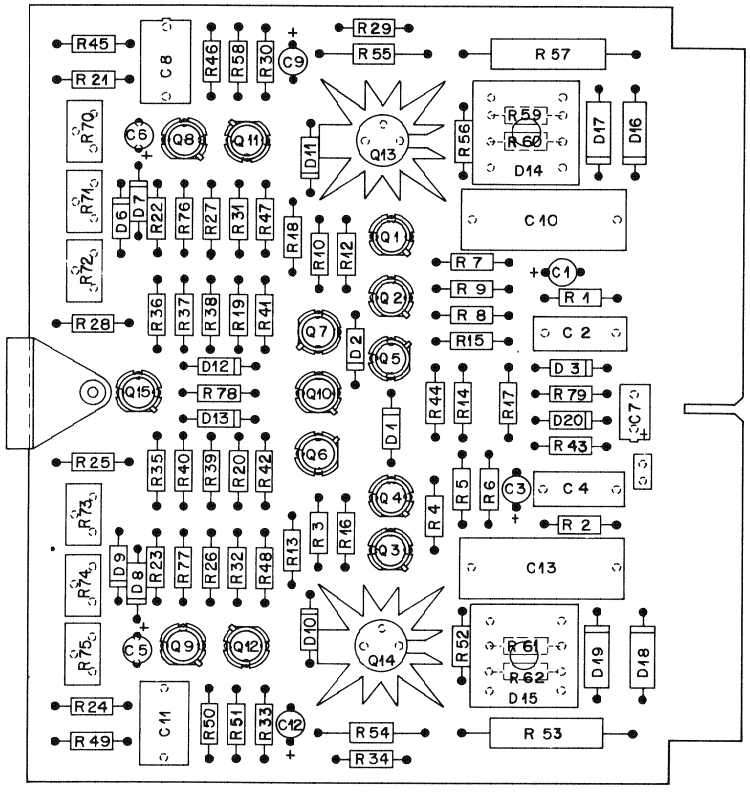
SPOOLING MOTOR CONTROL 1" + 2" VERSIONS 1.080.384

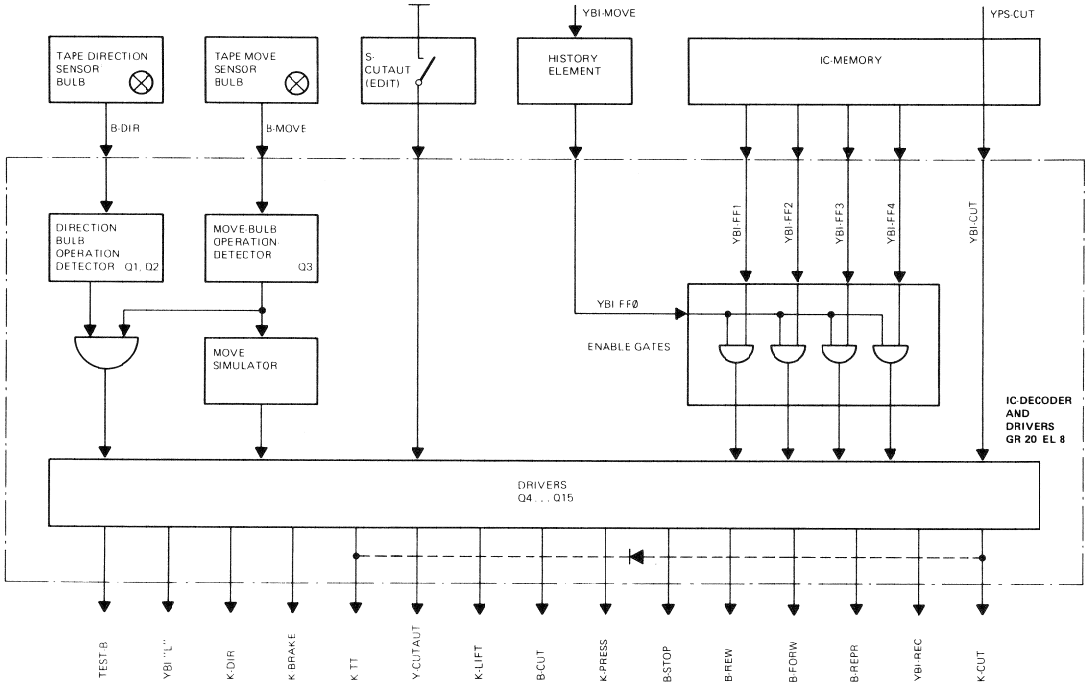
STUDER	1.080.384
SPOOLING MOTOR CONTROL 1" + 2"	
A80/VU MK I / MK II	ED 3 8.77


R45
R21
C8
R46
R58
R30
C9
R29
R55
R57
R59
R60
D14
D17
D16
R56
C6
Q8
Q11
Q13
D5
D11
R70
R71
R72
D6
D7
R22
R76
R27
R31
R47
R18
R10
R12
Q1
C10
R7
C1
R1
R28
R36
R37
R38
R19
R41
Q2
R9
R8
R15
C2
Q7
D2
Q5
D3
D12
Q15
R78
Q10
R44
R14
R17
R79
D20
C7
D13
D1
R43
R25
R35
R40
R39
R20
R42
Q6
Q4
R5
R6
C3
C4
R2
R73
R74
R75
D9
D8
R23
R77
R26
R32
R48
R13
R3
R16
Q3
R4
C13
C5
Q9
Q12
D4
D10
Q14
R52
R61
R62
D15
D19
D18
R24
R49
C11
R50
R51
R33
C12
R54
R34
R53
②

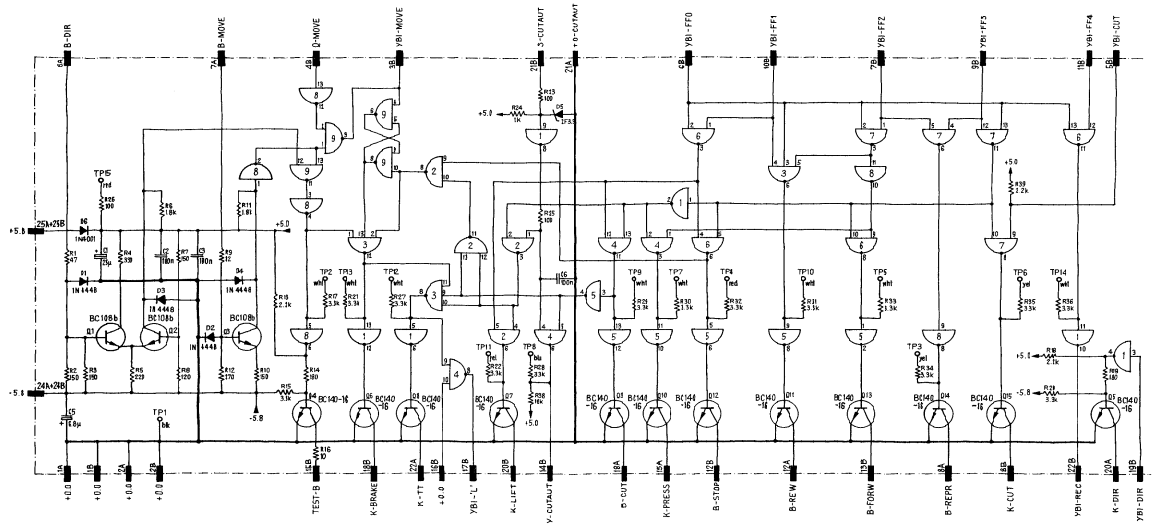


STUDER	1.080.385
SPOOLING MOTOR CONTROL	
7,5 ips.....30 ips	1/4'' + 1/2''
A 80 R / A 80 VU MK II	ED 2 5.77

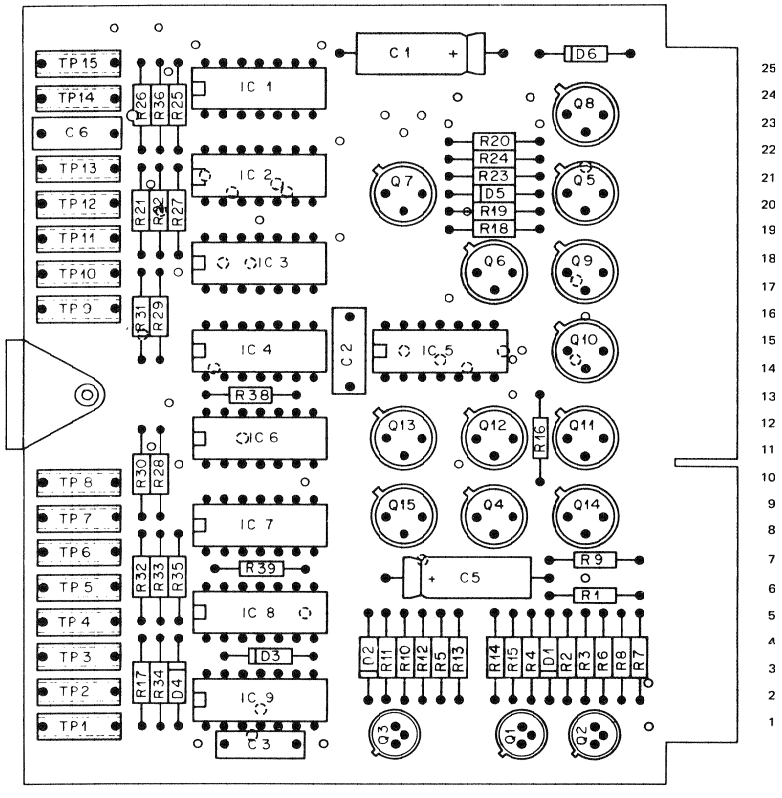

R45
R21
C8
R46
R58
R30
C9
R29
R55
R57
R70
R71
R72
C6
Q8
Q11
D11
Q13
R59
R60
D14
R56
D17
D16
D6
D7
R22
R76
R27
R31
R47
R18
R10
R12
Q1
C10
R7
R9
R8
R15
C1
R1
C2
R28
R36
R37
R38
R19
R41
Q7
D2
Q5
D3
D12
R78
D13
Q15
Q10
R44
R14
R17
R79
D20
R43
C7
D1
R25
R35
R40
R39
R20
R42
Q6
R5
R6
C3
C4
R2
R73
R74
R75
D9
D8
R23
R77
R26
R32
R48
R13
R3
R16
Q4
Q3
R4
C13
C5
Q9
Q12
D10
Q14
R52
R61
R62
D15
D19
D18
R24
R49
C11
R50
R51
R33
C12
R54
R34
R53

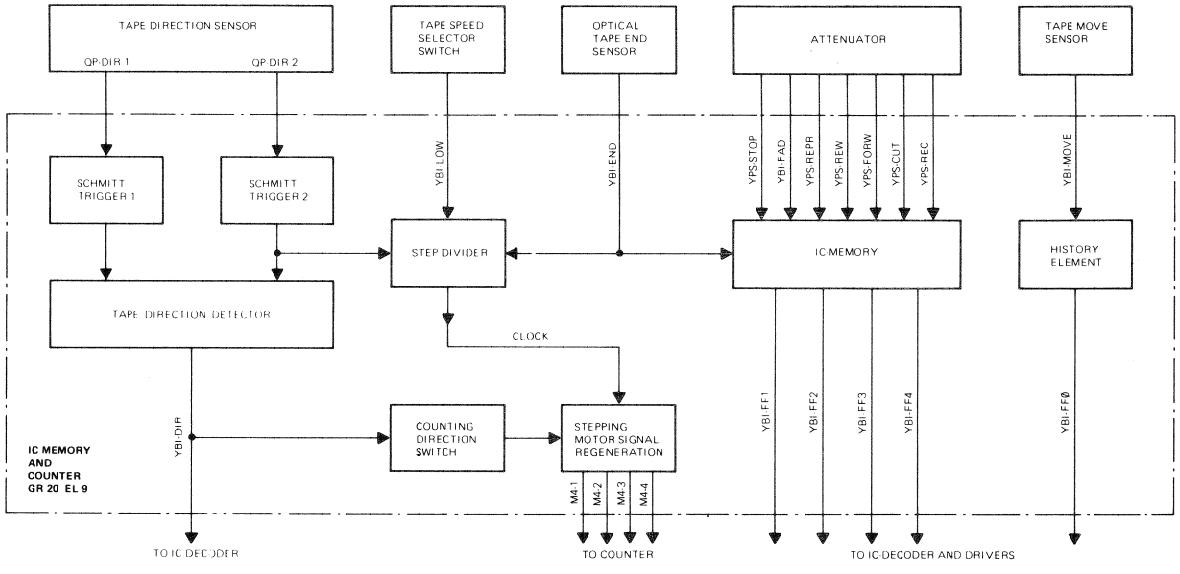


IC DECODER AND DRIVERS
1.080.390

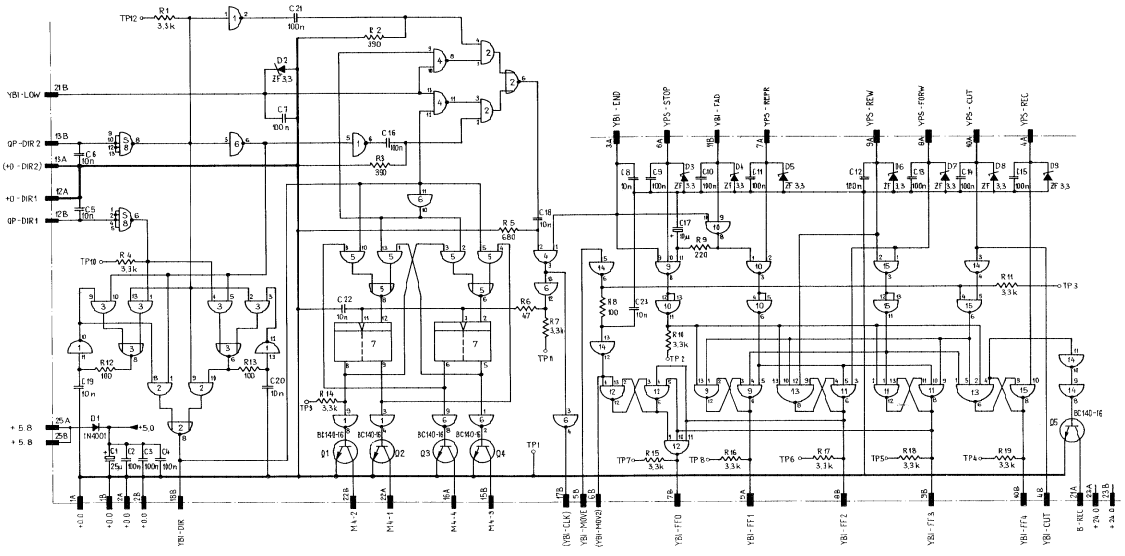


STUDER	1.080.390
IC DECODER	
A80/VU MK I / MK II	ED 3 8.77


TP15
TP14
C6
TP13
TP12
TP11
TP10
TP9
TP8
TP7
TP6
TP5
TP4
TP3
TP2
TP1
R26
R36
R25
R21
R22
R27
R31
R29
R30
R28
R32
R33
R35
R17
R34
D4
IC 1
IC 2
IC 3
IC 4
IC 6
IC 7
IC 8
IC 9
C3
R38
R39
D3
C1
+
D6
C2
IC 5
C5
R20
R24
R23
D5
R19
R18
Q7
Q8
Q5
Q6
Q9
Q10
Q13
Q12
Q11
R16
Q15
Q4
Q14
R9
R1
C4
R11
R10
R12
R5
R13
R14
R15
R4
D1
R2
R3
R6
R8
R7
Q3
Q1
Q2
25
24
23
22
21
20
19
18
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16
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8
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6
5
4
3
2
1

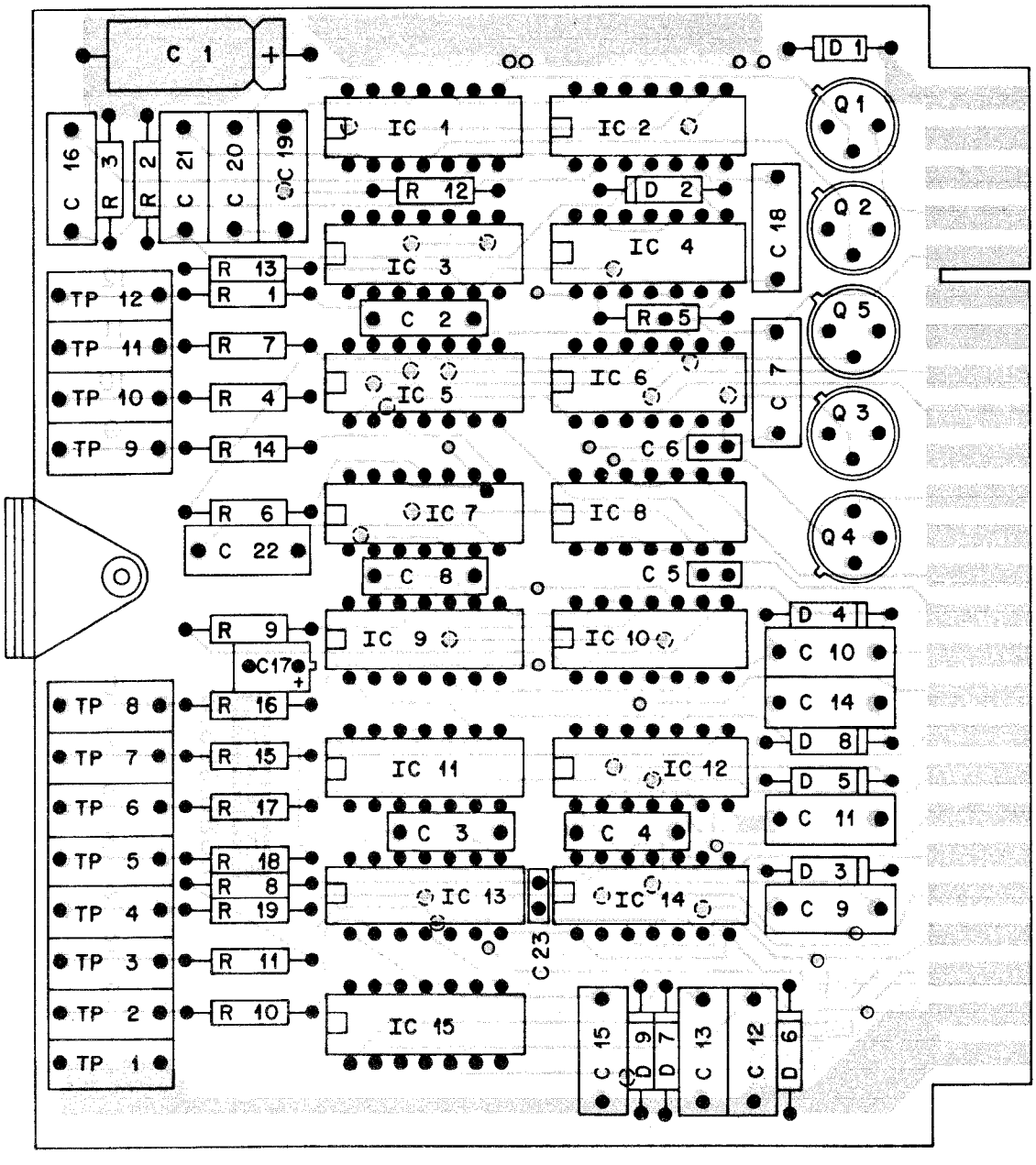


IC MEMORY AND COUNTER
1.080.393



IC MEMORY AND COUNTER
PC CARD

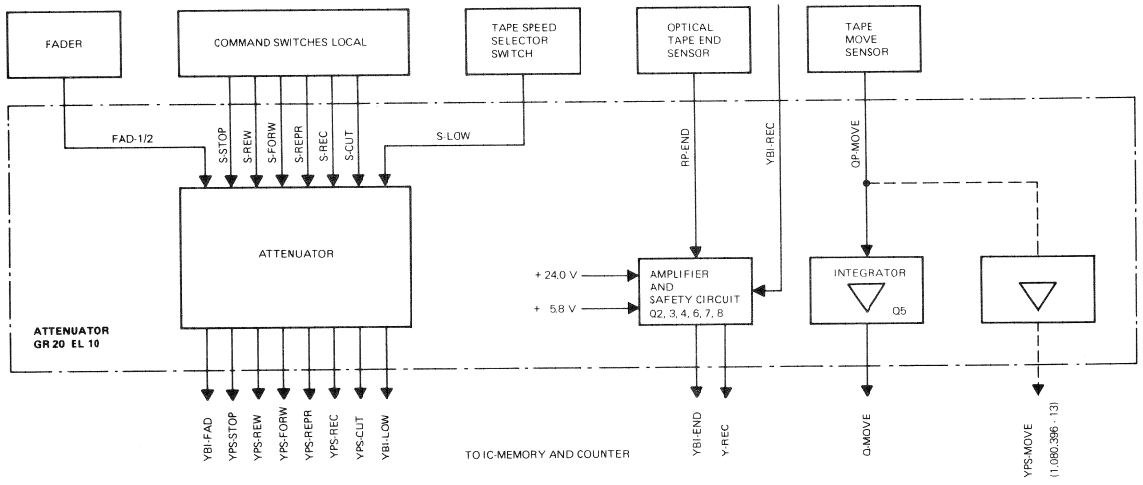
GR 20 EL 9
1.080.393



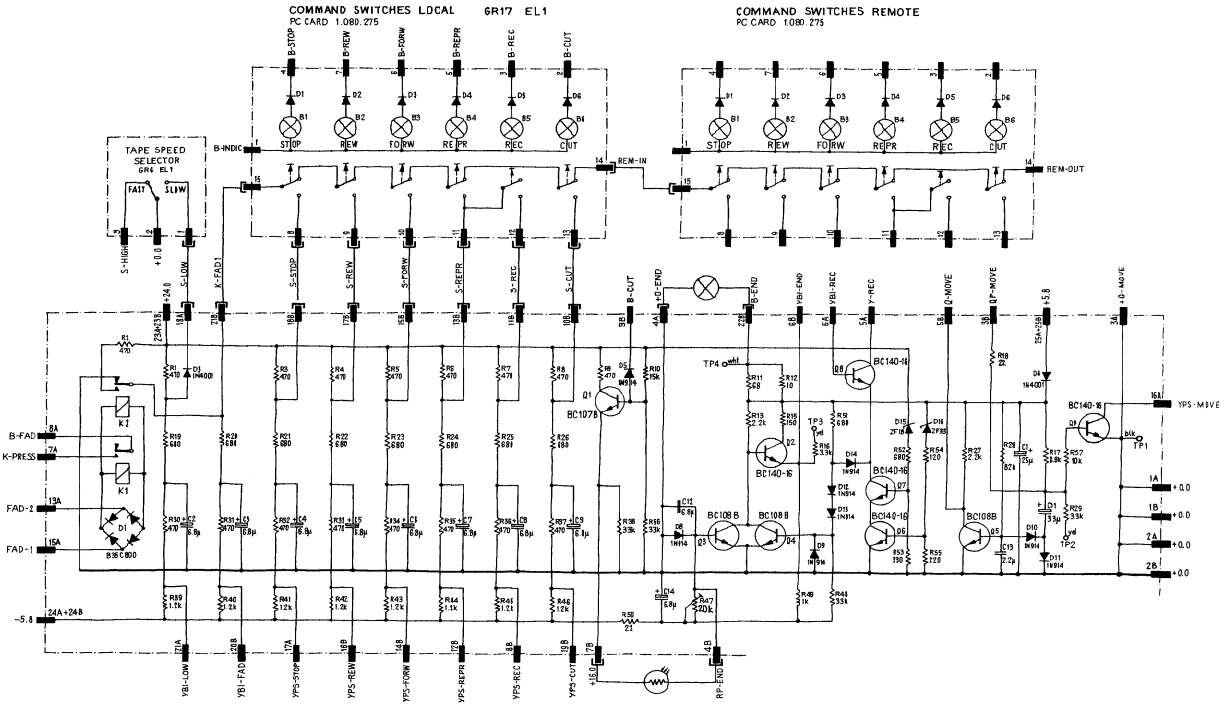
	FIRST	LAST	MISSING
C	1	23	
D	1	9	
IC	1	15	
Q	1	5	
R	1	19	
TP	1	12	

			Unspezified carbon film resistors: 1/8 W – 5%	* * Commercial types
IDENTIFI-CATION	PART NAME	TYPE / REMARKS	SPECIFICATIONS	ORDER NUMBER
	IC Memory and Counter	Board assembled		1.080.393
C 1	Capacitor	elektrolytic	25 µ F – +50% – 25 V	* *
C 2	Capacitor	polycarbonat	100 n F – 10% – 160 V	* *
C 3	Capacitor	polycarbonat	100 n F – 10% – 160 V	* *
C 4	Capacitor	polycarbonat	100 n F – 10% – 160 V	* *
C 5	Capacitor	ceramic	10 n F – +80% – 50 V	* *
C 6	Capacitor	ceramic	10 n F – +80% – 50 V	* *
C 7	Capacitor	polycarbonat	100 n F – 10% – 160 V	* *
C 8	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 9	Capacitor	polycarbonat	100 n F – 10% – 160 V	* *
C 10	Capacitor	polycarbonat	100 n F – 10% – 160 V	* *
C 11	Capacitor	polycarbonat	100 n F – 10% – 160 V	* *
C 12	Capacitor	polycarbonat	100 n F – 10% – 160 V	* *
C 13	Capacitor	polycarbonat	100 n F – 10% – 160 V	* *
C 14	Capacitor	polycarbonat	100 n F – 10% – 160 V	* *
C 15	Capacitor	polycarbonat	100 n F – 10% – 160 V	* *
C 16	Capacitor	polycarbonat	100 n F – 10% – 160 V	* *
C 17	Capacitor	tantalum	10 µ F – 20% – 16 V	* *
C 18	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 19	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 20	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 21	Capacitor	polycarbonat	100 n F – 10% – 160 V	* *
C 22	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 23	Capacitor	ceramic	10 n F – +80% – 50 V	* *
D 1	Si – Diode	1 N 4001		* *
D 2	Zener – Diode		3,3 V – 10% – 0,4 W	* *
D 3	Zener – Diode		3,3 V – 10% – 0,4 W	* *
D 4	Zener – Diode		3,3 V – 10% – 0,4 W	* *
D 5	Zener – Diode		3,3 V – 10% – 0,4 W	* *
D 6	Zener – Diode		3,3 V – 10% – 0,4 W	* *
D 7	Zener – Diode		3,3 V – 10% – 0,4 W	* *
D 8	Zener – Diode		3,3 V – 10% – 0,4 W	* *
D 9	Zener – Diode		3,3 V – 10% – 0,4 W	* *
IC 1	Integrated Circuit	SN 7404 N		* *
IC 2	Integrated Circuit	SN 7451 N		* *
IC 3	Integrated Circuit	SN 7451 N		* *
IC 4	Integrated Circuit	SN 7400 N		* *
IC 5	Integrated Circuit	SN 7451 N		* *
IC 6	Integrated Circuit	SN 7404 N		* *
IC 7	Integrated Circuit	SN 7474 N		* *
IC 8	Integrated Circuit	SN 7413 N		* *
IC 9	Integrated Circuit	SN 7410 N		* *
IC 10	Integrated Circuit	SN 7400 N		* *

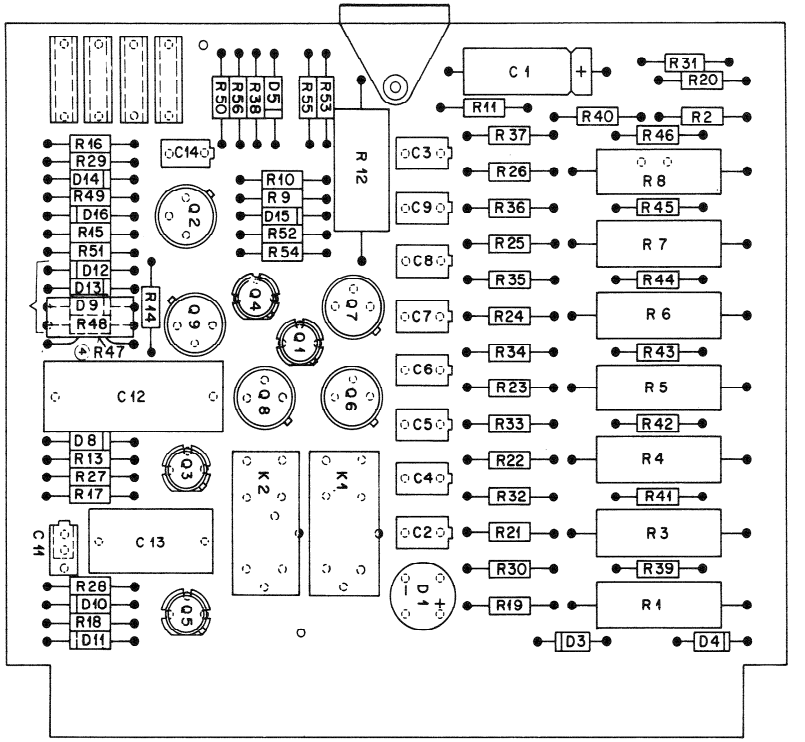
			Unspezified carbon film resistors: 1/8 W – 5%	* * Commercial types
IDENTIFI-CATION	PART NAME	TYPE / REMARKS	SPECIFICATIONS	ORDER NUMBER
IC 11	Integrated Circuit	SN 7410 N		* *
IC 12	Integrated Circuit	SN 7410 N		* *
IC 13	Integrated Circuit	SN 7420 N		* *
IC 14	Integrated Circuit	SN 7404 N		* *
IC 15	Integrated Circuit	SN 7400 N		* *
Q 1	Transistor	BC 140 – 16		* *
Q 2	Transistor	BC 140 – 16		* *
Q 3	Transistor	BC 140 – 16		* *
Q 4	Transistor	BC 140 – 16		* *
Q 5	Transistor	BC 140 – 16		* *
R 1	Resistor	carbon composition	3,3 k – 10% –0,25 W	* *
R 2	Resistor	carbon composition	390 – 10% –0,25 W	* *
R 3	Resistor	carbon composition	390 – 10% –0,25 W	* *
R 4	Resistor	carbon composition	3,3 k – 10% –0,25 W	* *
R 5	Resistor	carbon composition	680 – 10% –0,25 W	* *
R 6	Resistor	carbon composition	47 – 10% –0,25 W	* *
R 7	Resistor	carbon composition	3,3 k – 10% –0,25 W	* *
R 8	Resistor	carbon composition	100 – 10% –0,25 W	* *
R 9	Resistor	carbon composition	220 – 10% –0,25 W	* *
R 10	Resistor	carbon composition	3,3 k – 10% –0,25 W	* *
R 11	Resistor	carbon composition	3,3 k – 10% –0,25 W	* *
R 12	Resistor	carbon composition	100 – 10% –0,25 W	* *
R 13	Resistor	carbon composition	100 – 10% –0,25 W	* *
R 14	Resistor	carbon composition	3,3 k – 10% –0,25 W	* *
R 15	Resistor	carbon composition	3,3 k – 10% –0,25 W	* *
R 16	Resistor	carbon composition	3,3 k – 10% –0,25 W	* *
R 17	Resistor	carbon composition	3,3 k – 10% –0,25 W	* *
R 18	Resistor	carbon composition	3,3 k – 10% –0,25 W	* *
R 19	Resistor	carbon composition	3,3 k – 10% –0,25 W	* *
TP 1	Jack		2 mm – blk	54.01.0010
TP 2	Jack		2 mm – red	54.01.0012
TP 3	Jack		2 mm – wht	54.01.0019
TP 4	Jack		2 mm – yel	54.01.0014
TP 5	Jack		2 mm – yel	54.01.0014
TP 6	Jack		2 mm – yel	54.01.0014
TP 7	Jack		2 mm – blu	54.01.0016
TP 8	Jack		2 mm – yel	54.01.0014
TP 9	Jack		2 mm – wht	54.01.0019
TP 10	Jack		2 mm – wht	54.01.0019
TP 11	Jack		2 mm – wht	54.01.0019
TP 12	Jack		2 mm – wht	54.01.0019

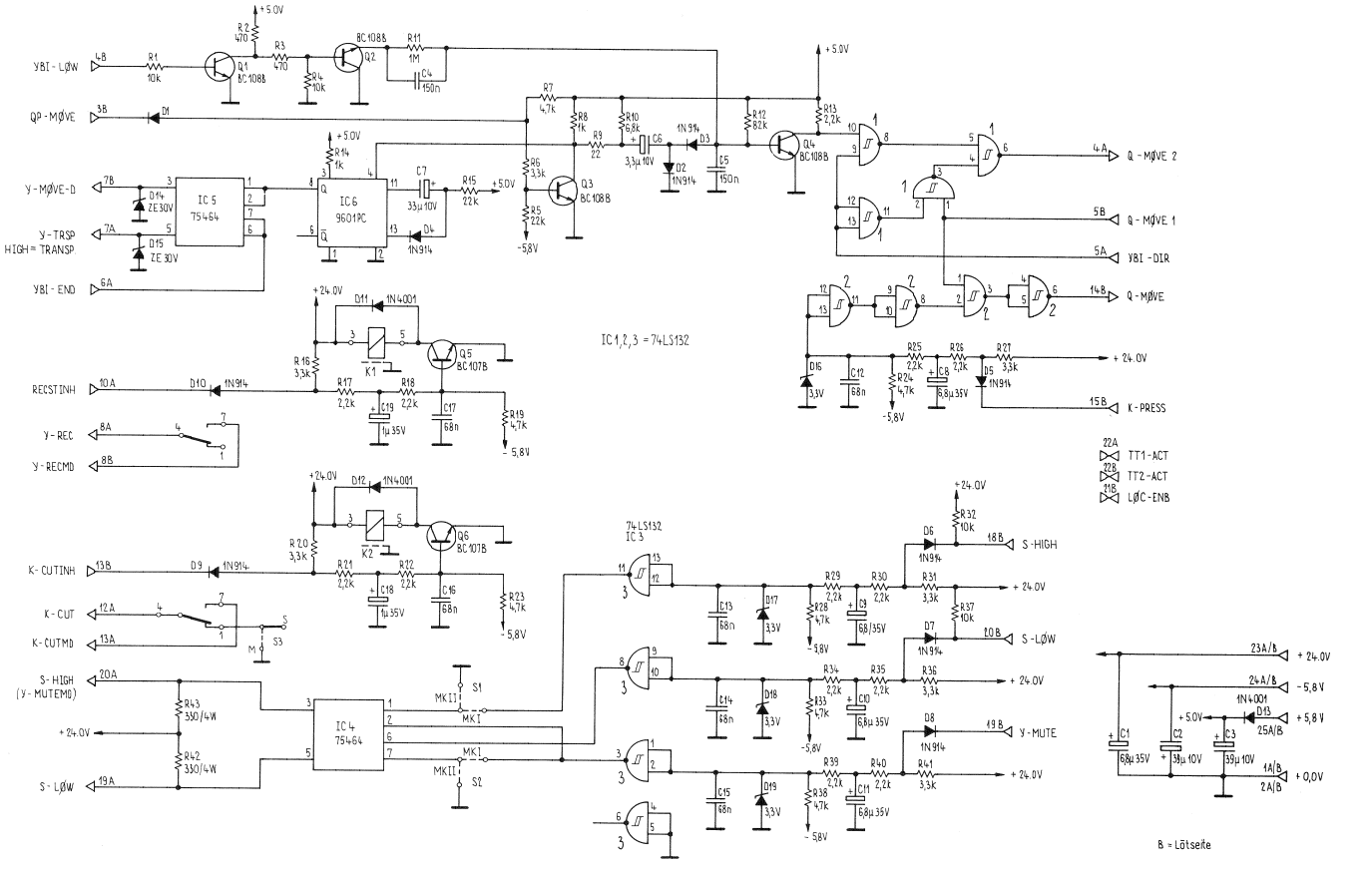


ATTENUATOR AND PREAMPLIFIER
1.080.396

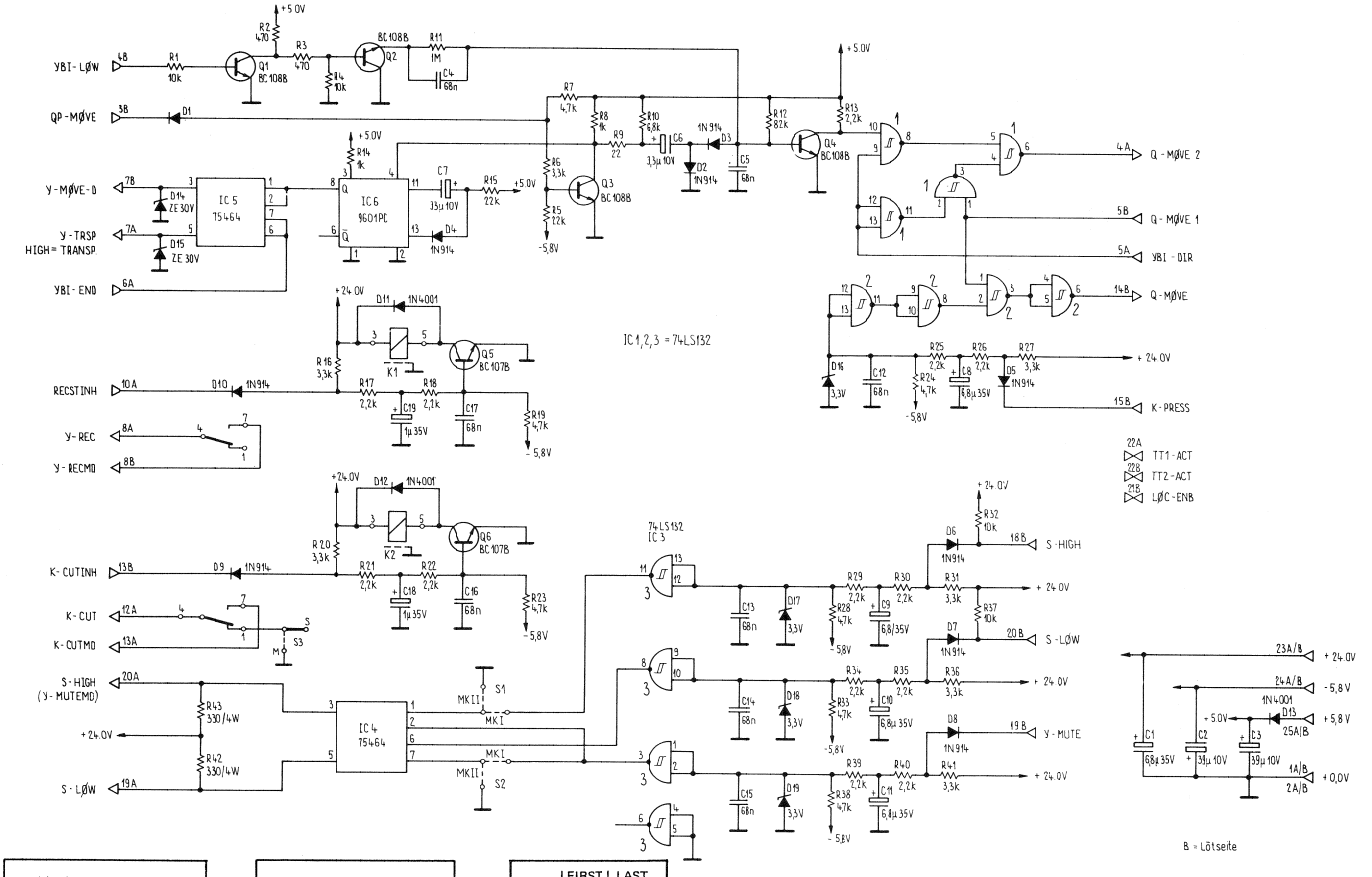


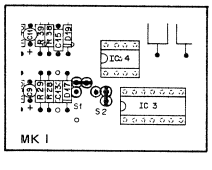
STUDER	1.080.396
ATTENUATOR AND PREAMPLIFIER	
A 80 R / A 80 VU MK II / A 81	ED 4 5.77

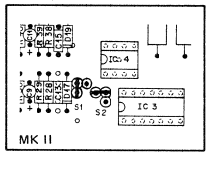

C 1
R 31
R 20
R 11
R 40
R 2
R 37
R 46
R 16
R 29
D 14
R 49
D 16
R 45
R 51
D 12
D 13
D 9
R 48
R 47
C14
R 50
R 56
R 38
D 5
R 55
R 53
R 12
R 10
R 9
D 15
R 52
R 54
C3
C9
C8
C7
C6
C5
C4
C2
R 26
R 36
R 25
R 35
R 24
R 34
R 23
R 33
R 22
R 32
R 21
R 30
R 19
R 8
R 45
R 7
R 44
R 6
R 43
R 5
R 42
R 4
R 41
R 3
R 39
R 1
D 3
D 4
Q 2
Q 9
Q 4
Q 7
Q 1
Q 8
Q 6
Q 3
Q 5
R 14
C 12
D 8
R 13
R 27
R 17
C 13
C 11
R 28
D 10
R 18
D 11
K 2
K 1
D 1



STUDER	1.080.397
A80 INTERFACE TO TLS 2000 7,5/15"	
A80/VU MK I/MK II (GR 20, EL 11) ED 3 4.77	

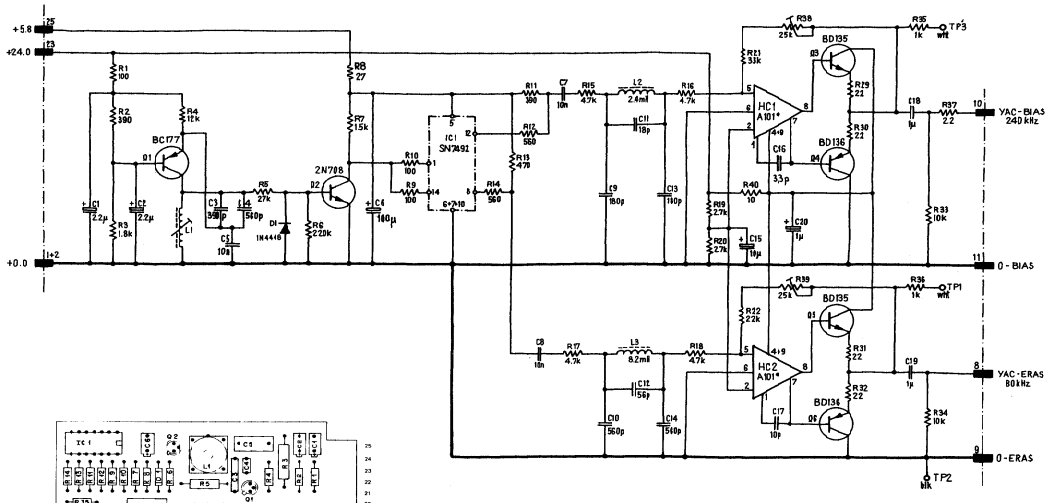


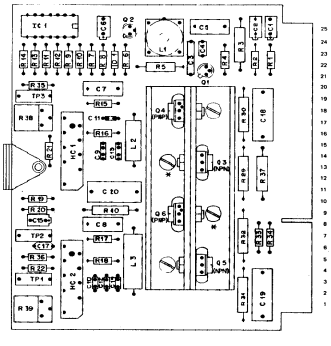




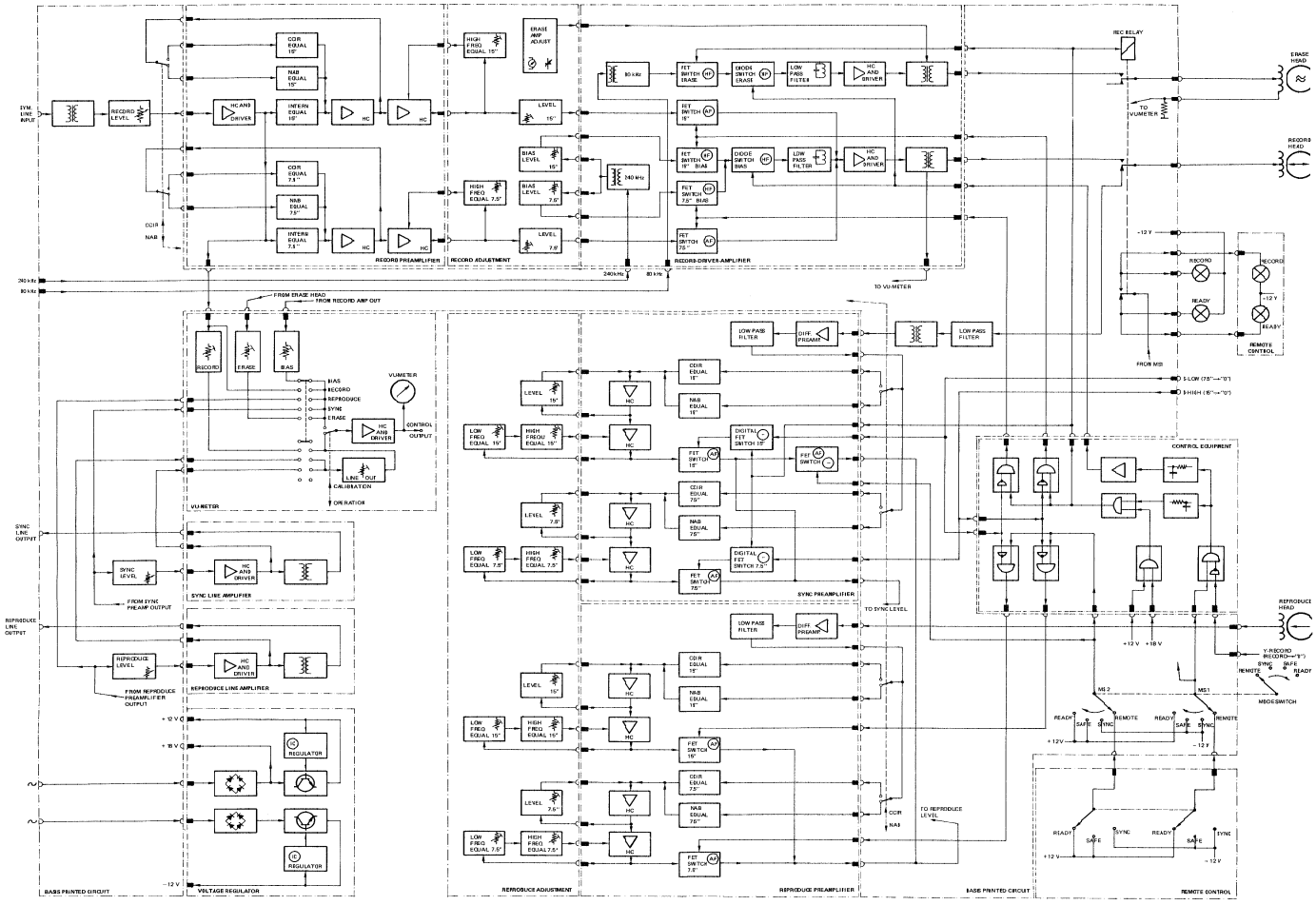
	FIRST	LAST
C	1	19
D	1	19
IC	1	6
R	1	43
Q	1	6

STUDER	1.080.398
A80 INTERFACE TO TLS 2000 15/30''	
A80/VU MK I/MK II (GR 20, EL 11) ED 1 4.77	





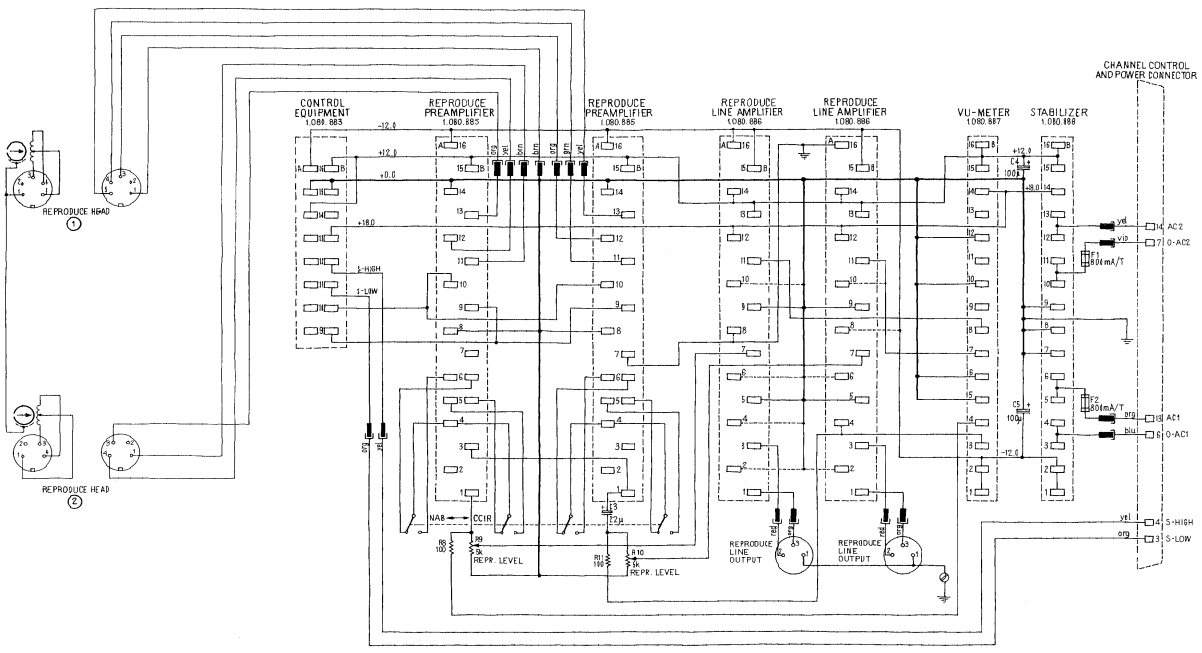
STUDER	1.080.399
MASTER OSCILLATEUR	
A 80 VU MK II	ED 2 5.77



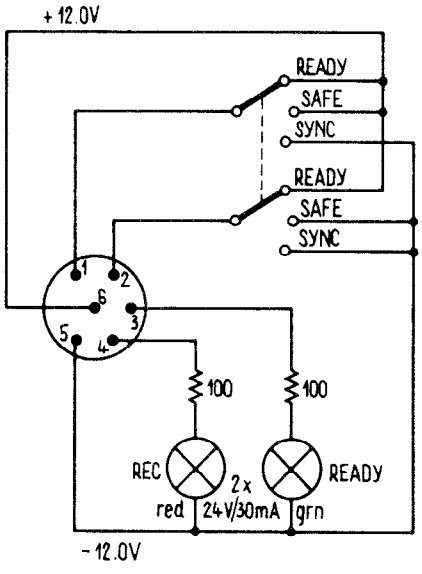
STUDER

AMPLIFIER SECTION FUNCTIONAL DIAGRAM

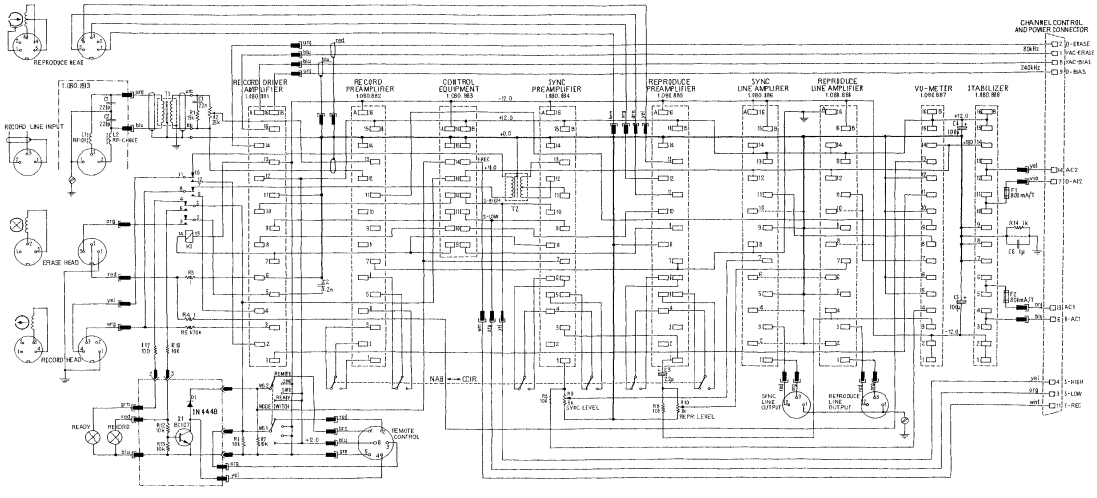
A80/VU MK I ED 3 10.77



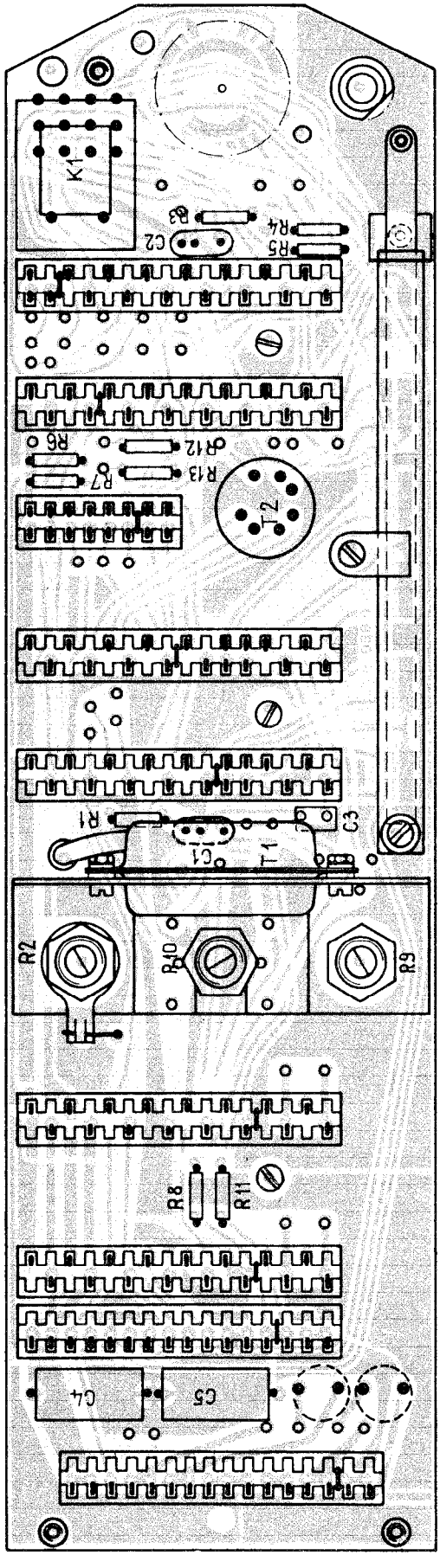
PRELISTENING CHANNEL BASIS PRINTED CIRCUIT 1.080.878



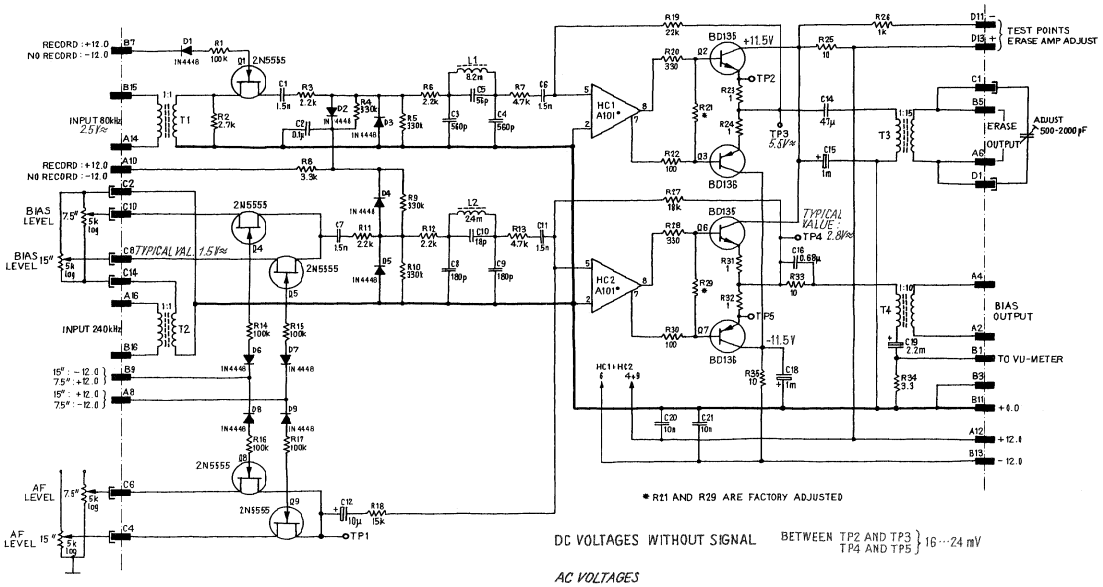
REMOTE CONTROL



CHANNEL BASIS PRINTED CIRCUIT GR 51 EL 10
1.080.880


K1
R3
C2
R4
R5
R6
R12
R7
R13
T2
R1
C3
C1
T1
R2
R10
R9
R8
R11
C4
C5

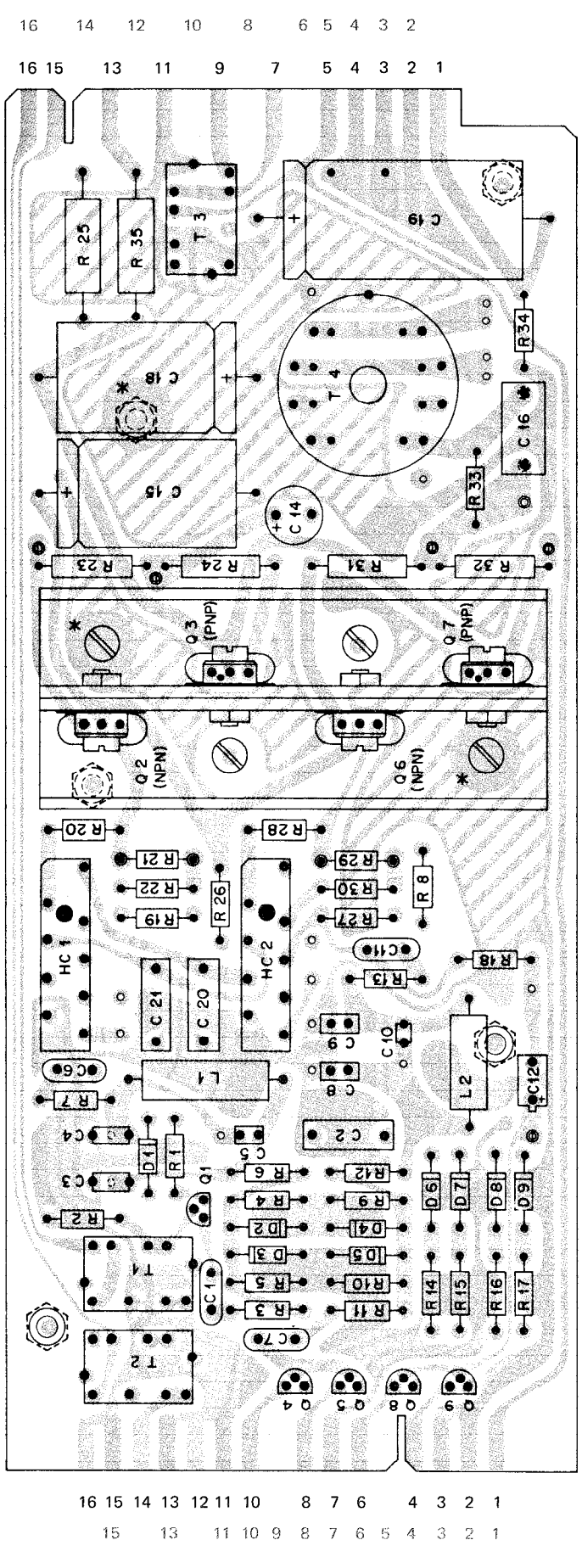
			Unspezified carbon film resistors: 1/8 W – 5%	* * Commercial types
IDENTIFICATION	PART NAME	TYPE / REMARKS	SPECIFICATIONS	ORDER NUMBER
	Channel Basis Printed Circuit	Board assembled		1.080.880
	Connector	for 1.080.883	1 Piece	1.012.080
	Connector	for 1.080.882	1 Piece	1.012.161
	Connector	for 1.080.886	1 Piece	1.012.161
	Connector	for 1.080.886	1 Piece	1.012.161
	Connector	for 1.080.881	1 Piece	1.012.163
	Connector	for 1.080.884	1 Piece	1.012.164
	Connector	for 1.080.885	1 Piece	1.012.164
	Connector	for 1.080.887	1 Piece	1.012.165
	Connector	for 1.080.888	1 Piece	1.012.165
	Coding Piece		9 Pieces	1.077.435 – 10
	Fuse Element		2 Pieces	53.03.0116
C 1	Capacitor	polystyrol	2,2 n F – 1% – 63 V	* *
C 2	Capacitor	ceramic	1,2 n F – 10% – 500 V	* *
C 3	Capacitor	tantalum	22 µ F – 20% – 6,3 V	* *
C 4	Capacitor	elektrolytic	100 µ F – 50% – 25 V	* *
C 5	Capacitor	elektrolytic	100 µ F – 50% – 25 V	* *
F 1	Fuse		800 m A T	* *
F 2	Fuse		800 m A T	* *
K 1	Relay		24 V – 0,03 A	56.04.0120
R 1	Resistor	carbon film	15 k	* *
R 2	Potentiometer	carbon film	25 k log – 10% – 2 W	* *
R 3	Resistor	carbon film	1	* *
R 4	Resistor	carbon film	1	* *
R 5	Resistor	carbon film	470 k	* *
R 6	Resistor	carbon film	10 k	* *
R 7	Resistor	carbon film	10 k	* *
R 8	Resistor	carbon film	100	* *
R 9	Potentiometer	carbon film	5 k log – 10% – 2 W	* *
R 10	Potentiometer	carbon film	5 k log – 10% – 2 W	* *
R 11	Resistor	carbon film	100	* *
R 12	Resistor	carbon film	100	* *
R 13	Resistor	carbon film	100	* *
T 1	Input Transformer		1 : 1	1.022.300
T 2	Sync Input Transformer			1.022.104



	FIRST	LAST	MISSING
C	1	21	13/17
D	1	9	
HC	1	2	
L	1	2	
Q	1	9	
R	1	35	
T	1	4	

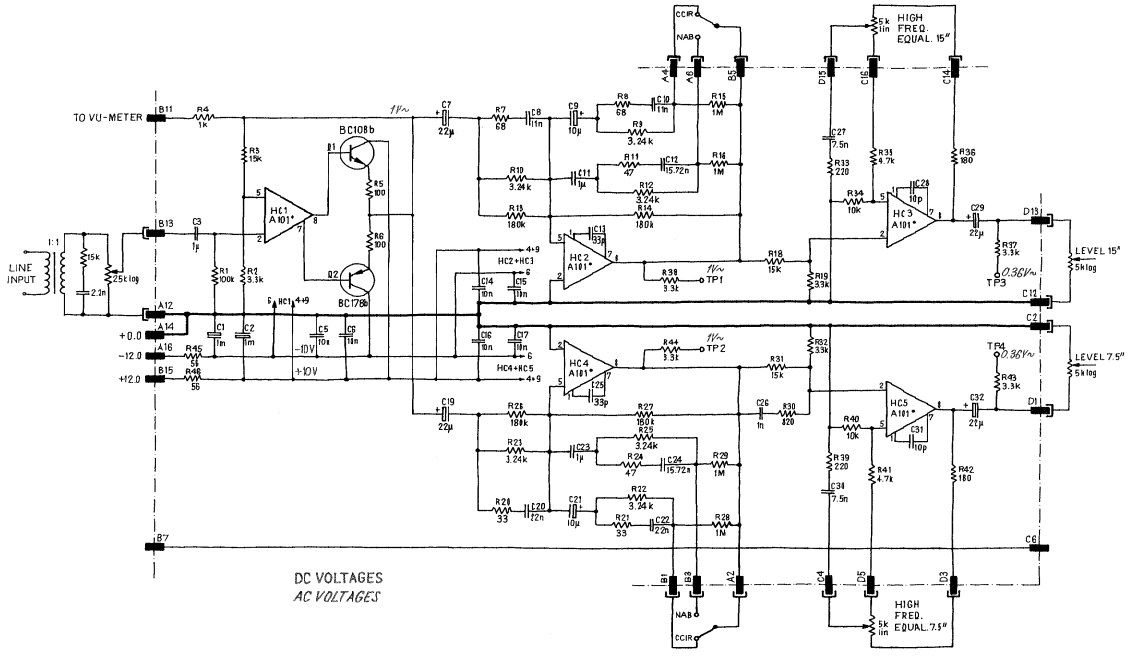
RECORD DRIVER AMPLIFIER
PC CARD

GR 51 EL 1
1.080.881


16 14 12 10 8 6 5 4 3 2
16 15 13 11 9 7 5 4 3 2 1
R 25
R 35
T 3
C 19
R34
C 18
T 4
C 16
C 15
C 14
R33
R 23
R 24
R 31
R 32
Q3 (PNP)
Q7 (PNP)
Q2 (NPN)
Q6 (NPN)
R 20
R 28
R 21
R 22
R 19
R 26
R 29
R 30
R 27
R 8
HC 1
HC 2
C11
R 18
R 13
C 21
C 20
C 9
C 10
L2
C12
C6
L1
C 8
R 7
C 2
C4
C5
D1
R 1
Q1
R 6
R12
C3
R 4
R 9
D6
D7
D8
D9
R 2
D2
D4
T1
D 3
D5
R 5
R10
R14
R15
R16
R17
C1
R 3
R 11
C7
T2
Q4
Q5
Q8
Q9
16 15 14 13 12 11 10 8 7 6 4 3 2 1
15 13 11 10 9 8 7 6 5 4 3 2 1

			Unspezified carbon film resistors: 1/8 W – 5%	** Commercial types
IDENTIFI-CATION	PART NAME	TYPE / REMARKS	SPECIFICATIONS	ORDER NUMBER
	Record Driver Amplifier	Board assembled		1.080.881
C 1	Capacitor	ceramic	1,5 n F – 10% – 500 V	* *
C 2	Capacitor	polycarbonat	100 n F – 10% – 160 V	* *
C 3	Capacitor	ceramic	560 p F – 5% – 100 V	* *
C 4	Capacitor	ceramic	560 p F – 5% – 100 V	* *
C 5	Capacitor	ceramic	56 p F – 2% – 63 V	* *
C 6	Capacitor	ceramic	1,5 n F – 10% – 500 V	* *
C 7	Capacitor	ceramic	1,5 n F – 10% – 500 V	* *
C 8	Capacitor	ceramic	180 p F – 2% – 63 V	* *
C 9	Capacitor	ceramic	180 p F – 2% – 63 V	* *
C 10	Capacitor	ceramic	18 p F – 2% – 63 V	* *
C 11	Capacitor	ceramic	1,5 n F – 10% – 500 V	* *
C 12	Capacitor	tantalum	10 µ F – 20% – 16 V	* *
C 14	Capacitor	elektrolytic (bipolar)	47 µ F – 100% – 16 V	59.99.0401
C 15	Capacitor	elektrolytic	1000 µ F – 50% – 18 V	* *
C 16	Capacitor	polycarbonat	680 n F – 5% – 63 V	* *
C 18	Capacitor	elektrolytic	1000 µ F – 50% – 18 V	* *
C 19	Capacitor	elektrolytic	2200 µ F – 50% – 6 V	* *
C 20	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 21	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
D 1	Si – Diode	1 N 4448		* *
D 2	Si – Diode	1 N 4448		* *
D 3	Si – Diode	1 N 4448		* *
D 4	Si – Diode	1 N 4448		* *
D 5	Si – Diode	1 N 4448		* *
D 6	Si – Diode	1 N 4448		* *
D 7	Si – Diode	1 N 4448		* *
D 8	Si – Diode	1 N 4448		* *
D 9	Si – Diode	1 N 4448		* *
HC 1	Hybrid Circuit	A 101 (wht)	6 dB	1.010.102.50
HC 2	Hybrid Circuit	A 101 (wht)	6 dB	1.010.102.50
L 1	Choke Coil		8,2 m H – 3%	62.01.0121
L 2	Choke Coil		2,4 m H – 3%	62.01.0120
Q 1	FET	2 N 5555		* *
Q 2	Transistor	BD 135 (2 SC 496)		* *
Q 3	Transistor	BD 136 (2 SA 496)		* *
Q 4	FET	2 N 5555		* *
Q 5	FET	2 N 5555		* *
Q 6	Transistor	BD 135 (2 SC 496)		* *
Q 7	Transistor	BD 136 (2 SA 496)		* *

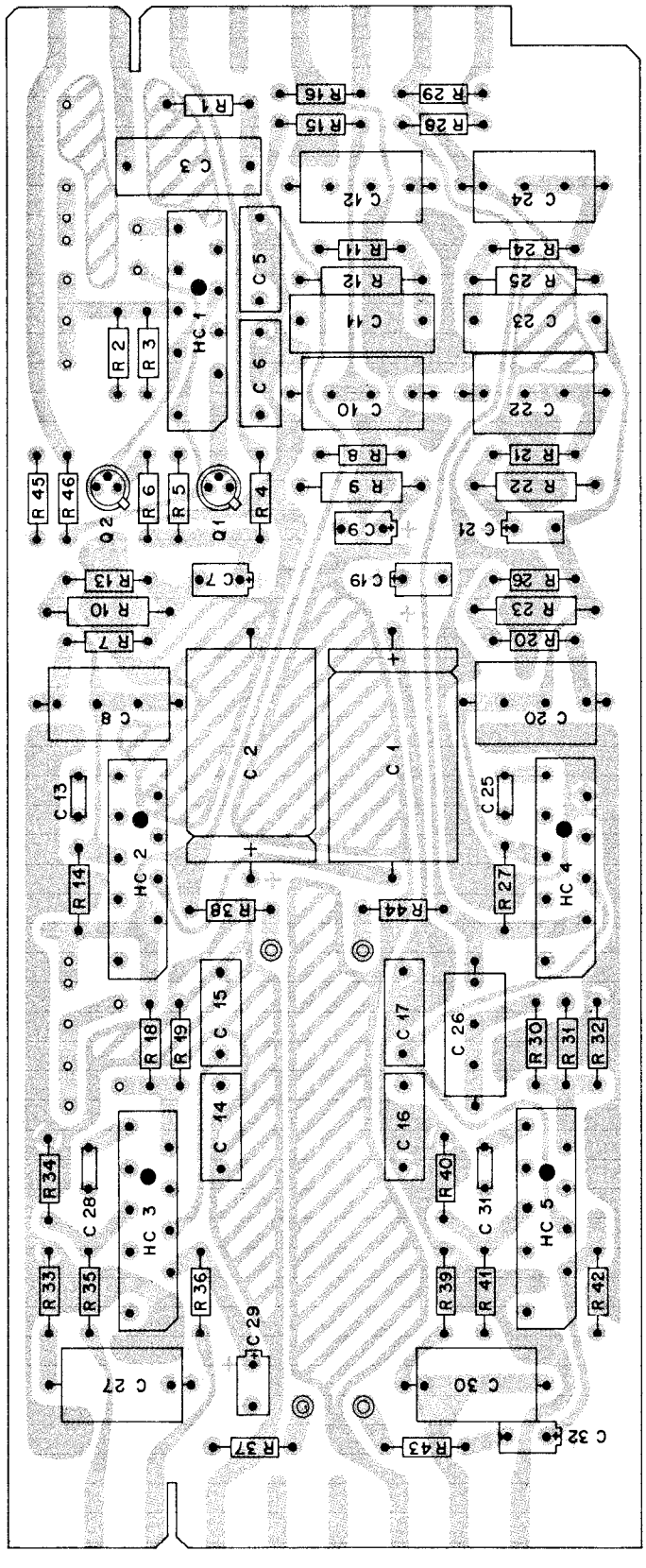
			Unspezified carbon film resistors: 1/8 W – 5%	* * Commercial types
IDENTIFI-CATION	PART NAME	TYPE / REMARKS	SPECIFICATIONS	ORDER NUMBER
Q 8	FET	2 N 5555		* *
Q 9	FET	2 N 5555		* *
R 1	Resistor	carbon film	100 k	* *
R 2	Resistor	carbon film	2,7 k	* *
R 3	Resistor	carbon film	2,2 k	* *
R 4	Resistor	carbon film	330 k	* *
R 5	Resistor	carbon film	330 k	* *
R 6	Resistor	carbon film	2,2 k	* *
R 7	Resistor	carbon film	4,7 k	* *
R 8	Resistor	carbon film	3,3 k	* *
R 9	Resistor	carbon film	330 k	* *
R 10	Resistor	carbon film	330 k	* *
R 11	Resistor	carbon film	2,2 k	* *
R 12	Resistor	carbon film	2,2 k	* *
R 13	Resistor	carbon film	4,7 k	* *
R 14	Resistor	carbon film	100 k	* *
R 15	Resistor	carbon film	100 k	* *
R 16	Resistor	carbon film	100 k	* *
R 17	Resistor	carbon film	100 k	* *
R 18	Resistor	carbon film	15 k	* *
R 19	Resistor	carbon film	22 k	* *
R 20	Resistor	carbon film	330 k	* *
R 21	Resistor	carbon film	balancing value	* *
R 22	Resistor	carbon film	100	* *
R 23	Resistor	carbon film	1 – 5% –0,33 W	* *
R 24	Resistor	carbon film	1 – 5% –0,33 W	* *
R 25	Resistor	wire – wound	10 – 5% – 4 W	* *
R 26	Resistor	carbon film	1 k	* *
R 27	Resistor	carbon film	18 k	* *
R 28	Resistor	carbon film	330	* *
R 29	Resistor	carbon film	balancing value	* *
R 30	Resistor	carbon film	100	* *
R 31	Resistor	carbon film	1 – 5% –0,33 W	* *
R 32	Resistor	carbon film	1 – 5% –0,33 W	* *
R 33	Resistor	carbon film	10	* *
R 34	Resistor	carbon film	3,3	* *
R 35	Resistor	wire – wound	10 – 5% – 4 W	* *
T 1	Input Transformer		240 kHz	1.022.100.00
T 2	Input Transformer		80 kHz	1.022.100.00
T 3	Output Transformer		80 kHz	1.022.101.00
T 4	Output Transformer		240 kHz	1.022.102.00



	FIRST	LAST	MISSING
C	1	32	4/18
HC	1	5	—
Q	1	2	—
R	1	46	17

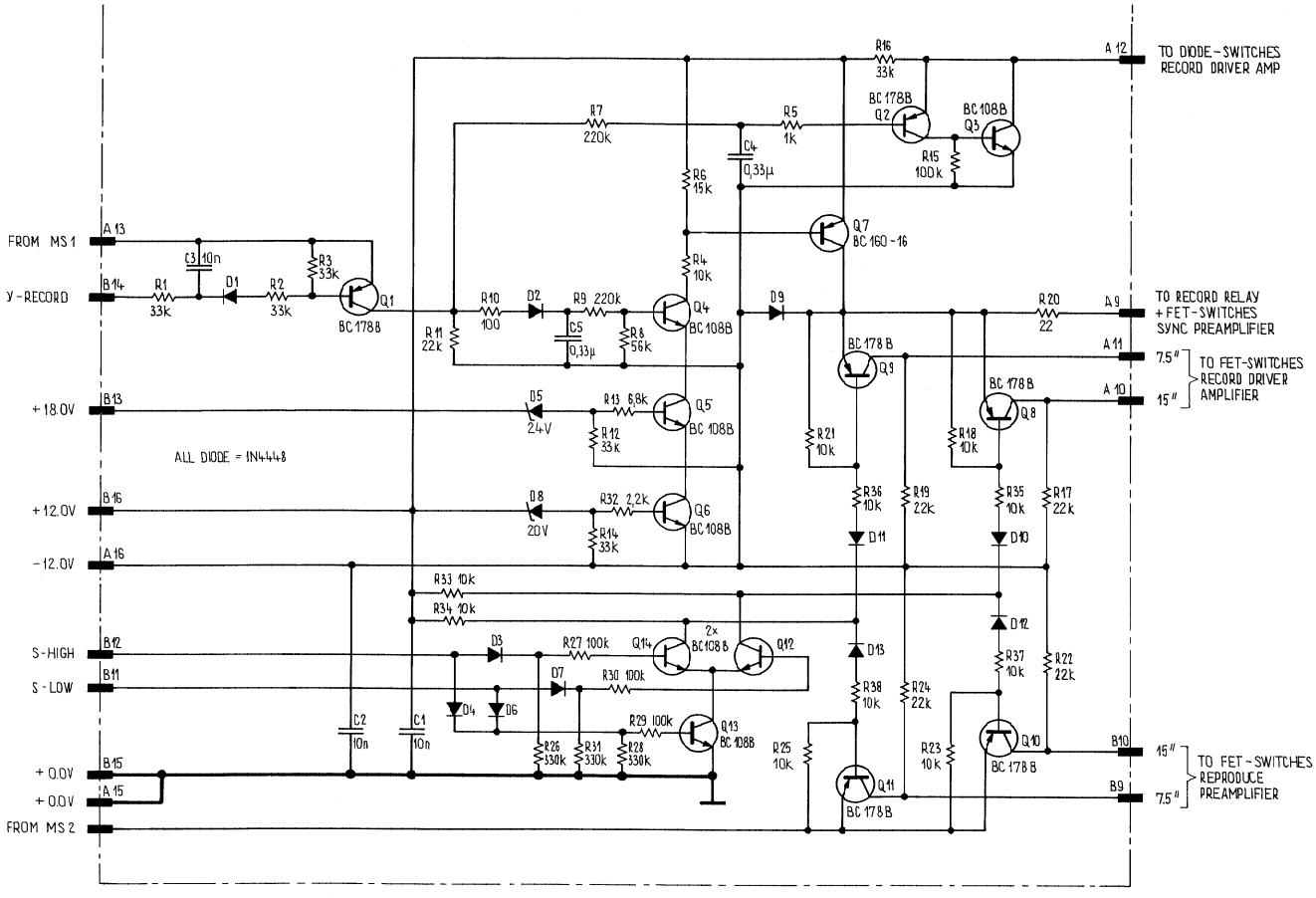
RECORD PREAMPLIFIER
PC CARD

GR 51 EL
1.080.882

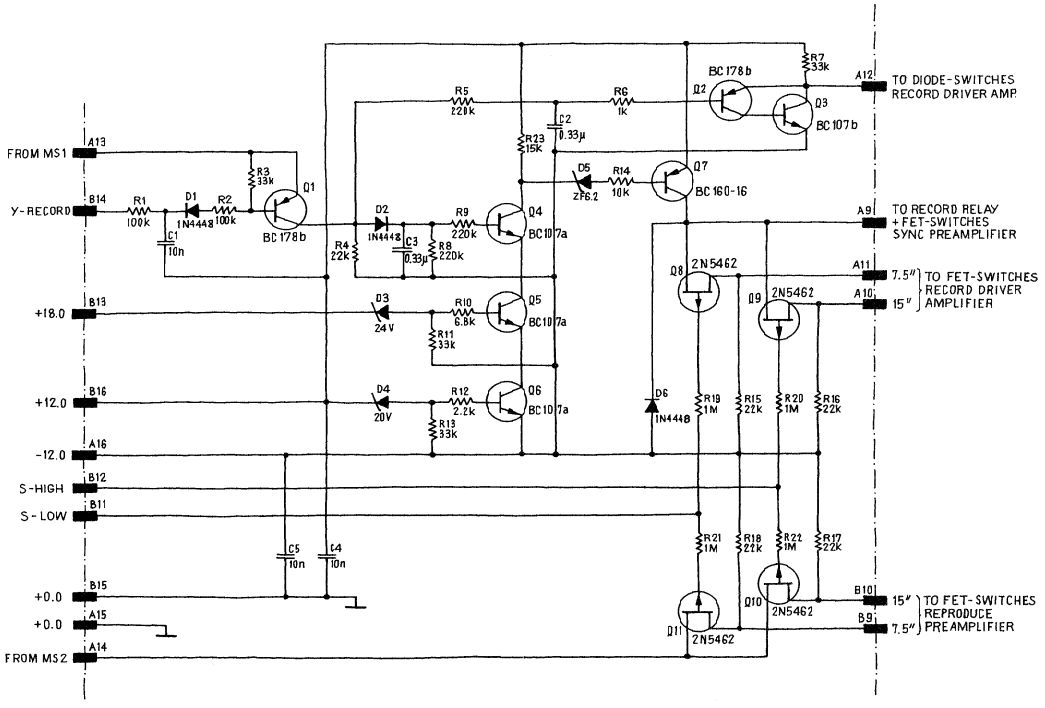

16 14 12 10 8 6 4 2
15 13 11 9 7 5 3 1
R 1
R 16
R 15
R 29
R 28
C 3
C 12
C 24
C 5
R 11
R 12
R 24
R 25
C 11
C 23
HC 1
R 2
R 3
C 6
C 10
C 22
R 8
R 21
R 45
R 46
Q 2
R 6
R 5
Q 1
R 4
R 9
R 22
C 9
C 21
C 7
C 19
R 26
R 13
R 10
R 23
R 7
R 20
C 8
C 2
C 1
C 20
C 13
C 25
HC 2
HC 4
R 14
R 27
R 38
R 44
C 15
C 17
C 26
R 18
R 19
R 30
R 31
R 32
C 14
C 16
R 34
C 28
HC 3
R 40
C 31
HC 5
R 33
R 35
R 36
R 39
R 41
R 42
C 29
C 27
C 30
C 32
R 37
R 43
16 14 12 10 8 6 4 2
15 13 11 9 7 5 3 1

			Unspezified carbon film resistors: 1/8 W – 5%	* * Commercial types
IDENTIFICATION	PART NAME	TYPE / REMARKS	SPECIFICATIONS	ORDER NUMBER
	Record Preamplifier	Board assembled		1.080.882
C 1	Capacitor	elektrolytic	1000 µ F – 50% – 18 V	* *
C 2	Capacitor	elektrolytic	1000 µ F – 50% – 18 V	* *
C 3	Capacitor	polycarbonat	1 µ F – 10% – 63 V	* *
C 5	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 6	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 7	Capacitor	tantalum	22 µ F – 20% – 6,3 V	* *
C 8	Capacitor	polystyrol	11 n F – 1,2% – 63 V	59.04.0001
C 9	Capacitor	tantalum	10 µ F – 20% – 16 V	* *
C 10	Capacitor	polystyrol	11 n F – 1,2% – 63 V	59.04.0001
C 11	Capacitor	polycarbonat	11 µ F – 2% – 63 V	* *
C 12	Capacitor	polystyrol	15,7 n F – 1,2% – 63 V	59.04.0002
C 13	Capacitor	ceramic	33 p F – 10% – 500 V	* *
C 14	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 15	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 16	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 17	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 19	Capacitor	tantalum	22 µ F – 20% – 6,3 V	* *
C 20	Capacitor	polystyrol	22 n F – 1% – 63 V	* *
C 21	Capacitor	tantalum	10 µ F – 20% – 16 V	* *
C 22	Capacitor	polystyrol	22 n F – 1% – 63 V	* *
C 23	Capacitor	polycarbonat	1 µ F – 2% – 63 V	* *
C 24	Capacitor	polystyrol	15,7 n F – 1,2% – 63 V	59.04.0002
C 25	Capacitor	ceramic	33 p F – 10% – 500 V	* *
C 26	Capacitor	polystyrol	1 n F – 1% – 500 V	* *
C 27	Capacitor	polystyrol	7,5 n F – 1% – 125 V	* *
C 28	Capacitor	ceramic	10 p F – 20% – 500 V	* *
C 29	Capacitor	tantalum	22 µ F – 20% – 6,3 V	* *
C 30	Capacitor	polystyrol	7,5 n F – 1% – 125 V	* *
C 31	Capacitor	ceramic	10 p F – 20% – 500 V	* *
C 32	Capacitor	tantalum	22 µ F – 20% – 6,3 V	* *
HC 1	Hybrid Circuit	A 101 (wht)	6 dB	1.010.102.50
HC 2	Hybrid Circuit	A 101 (wht)	6 dB	1.010.102.50
HC 3	Hybrid Circuit	A 101 (wht)	6 dB	1.010.102.50
HC 4	Hybrid Circuit	A 101 (wht)	6 dB	1.010.102.50
HC 5	Hybrid Circuit	A 101 (wht)	6 dB	1.010.102.50
Q 1	Transistor	BC 108 B		* *
Q 2	Transistor	BC 178 B		* *
R 1	Resistor	carbon film	100 k	* *
R 2	Resistor	carbon film	3,3 k	* *
R 3	Resistor	carbon film	15 k	* *
R 4	Resistor	carbon film	1 k	* *

			Unspezified carbon film resistors: 1/8 W — 5%	* * Commercial types
IDENTIFI-CATION	PART NAME	TYPE / REMARKS	SPECIFICATIONS	ORDER NUMBER
R 5	Resistor	carbon film	100	* *
R 6	Resistor	carbon film	100	* *
R 7	Resistor	carbon film	68	* *
R 8	Resistor	carbon film	68	* *
R 9	Resistor	metal film	3,24 k — 1% —0,33 W	57.39.3241
R 10	Resistor	metal film	3,24 k — 1% —0,33 W	57.39.3241
R 11	Resistor	carbon film	47	* *
R 12	Resistor	metal film	3,24 k — 1% —0,33 W	57.39.3241
R 13	Resistor	carbon film	180 k	* *
R 14	Resistor	carbon film	180 k	* *
R 15	Resistor	carbon film	1 M	* *
R 16	Resistor	carbon film	1 M	* *
R 18	Resistor	carbon film	15 k	* *
R 19	Resistor	carbon film	3,3 k	* *
R 20	Resistor	carbon film	33	* *
R 21	Resistor	carbon film	33	* *
R 22	Resistor	metal film	3,24 k — 1% —0,33 W	57.39.3241
R 23	Resistor	metal film	3,24 k — 1% —0,33 W	57.39.3241
R 24	Resistor	carbon film	47	* *
R 25	Resistor	metal film	3,24 k — 1% —0,33 W	57.39.3241
R 26	Resistor	carbon film	180 k	* *
R 27	Resistor	carbon film	180 k	* *
R 28	Resistor	carbon film	1 M	* *
R 29	Resistor	carbon film	1 M	* *
R 30	Resistor	carbon film	820	* *
R 31	Resistor	carbon film	15 k	* *
R 32	Resistor	carbon film	3,3 k	* *
R 33	Resistor	carbon film	220	* *
R 34	Resistor	carbon film	10 k	* *
R 35	Resistor	carbon film	4,7 k	* *
R 36	Resistor	carbon film	180	* *
R 37	Resistor	carbon film	3,3 k	* *
R 38	Resistor	carbon film	3,3 k	* *
R 39	Resistor	carbon film	220	* *
R 40	Resistor	carbon film	10 k	* *
R 41	Resistor	carbon film	4,7 k	* *
R 42	Resistor	carbon film	180	* *
R 43	Resistor	carbon film	3,3 k	* *
R 44	Resistor	carbon film	3,3 k	* *
R 45	Resistor	carbon film	56	* *
R 46	Resistor	carbon film	56	* *



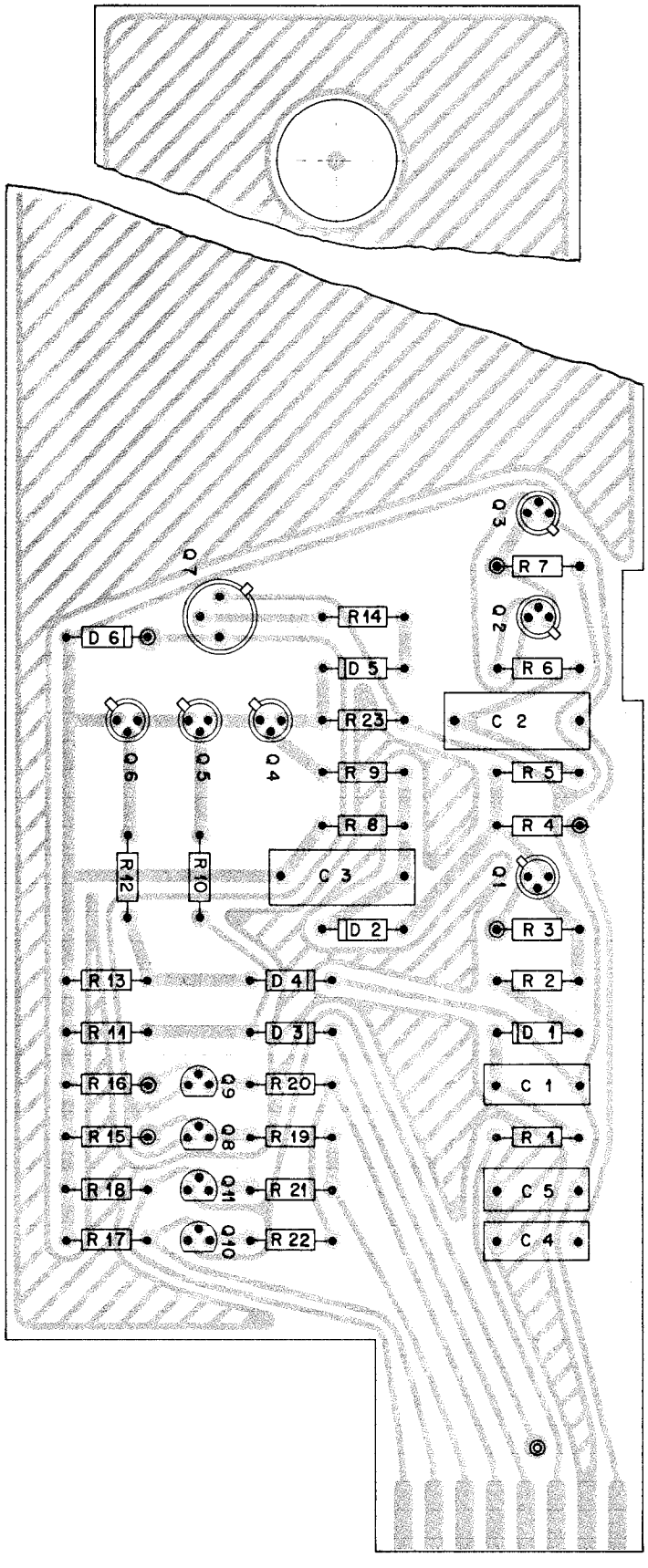
STUDER	1.080.797
CONTROL EQUIPMENT	
TLS 2000 / A80/VU MK I	ED 1 4.77



	FIRST	LAST	MISSING
C	1	5	
D	1	6	
Q	1	11	
R	1	23	

CONTROL EQUIPMENT
PC CARD

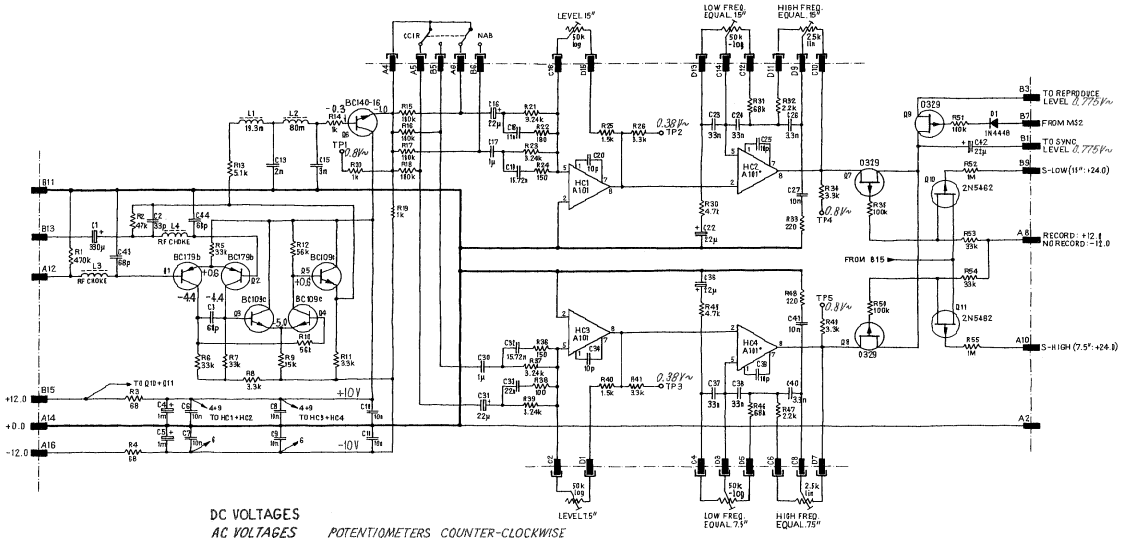
GR 51 EL 3
1.080.883



9 10 11 12 13 14 15 16

			Unspezified carbon film resistors: 1/8 W – 5%	* * Commercial types
IDENTIFI-CATION	PART NAME	TYPE / REMARKS	SPECIFICATIONS	ORDER NUMBER
	Control Equiqment	Board assembled		1.080.883
C 1	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 2	Capacitor	polycarbonat	0,33 µ F – 10% – 100 V	* *
C 3	Capacitor	polycarbonat	0,33 µ F – 10% – 100 V	* *
C 4	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 5	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
D 1	Si – Diode	1 N 4448		* *
D 2	Si – Diode	1 N 4448		* *
D 3	Zener – Diode		24 V – 5% – 0,4 W	* *
D 4	Zener – Diode		20 V – 5% – 0,4 W	* *
D 5	Zener – Diode		6,2 V – 5% – 0,4 W	* *
D 6	Si – Diode	1 N 4448		* *
Q 1	Transistor	BC 178 B		* *
Q 2	Transistor	BC 178 B		* *
Q 3	Transistor	BC 107 B		* *
Q 4	Transistor	BC 107 A		* *
Q 5	Transistor	BC 107 A		* *
Q 6	Transistor	BC 107 A		* *
Q 7	Transistor	BC 160 – 16		* *
Q 8	FET	2 N 5462		* *
Q 9	FET	2 N 5462		* *
Q 10	FET	2 N 5462		* *
Q 11	FET	2 N 5462		* *
R 1	Resistor	carbon film	100 k	* *
R 2	Resistor	carbon film	100 k	* *
R 3	Resistor	carbon film	33 k	* *
R 4	Resistor	carbon film	22 k	* *
R 5	Resistor	carbon film	220 k	* *
R 6	Resistor	carbon film	1 k	* *
R 7	Resistor	carbon film	33 k	* *
R 8	Resistor	carbon film	220 k	* *
R 9	Resistor	carbon film	220 k	* *
R 10	Resistor	carbon film	6,8 k	* *
R 11	Resistor	carbon film	33 k	* *
R 12	Resistor	carbon film	2,2 k	* *
R 13	Resistor	carbon film	33 k	* *
R 14	Resistor	carbon film	10 k	* *
R 15	Resistor	carbon film	22 k	* *
R 16	Resistor	carbon film	22 k	* *
R 17	Resistor	carbon film	22 k	* *
R 18	Resistor	carbon film	22 k	* *
R 19	Resistor	carbon film	1 M	* *

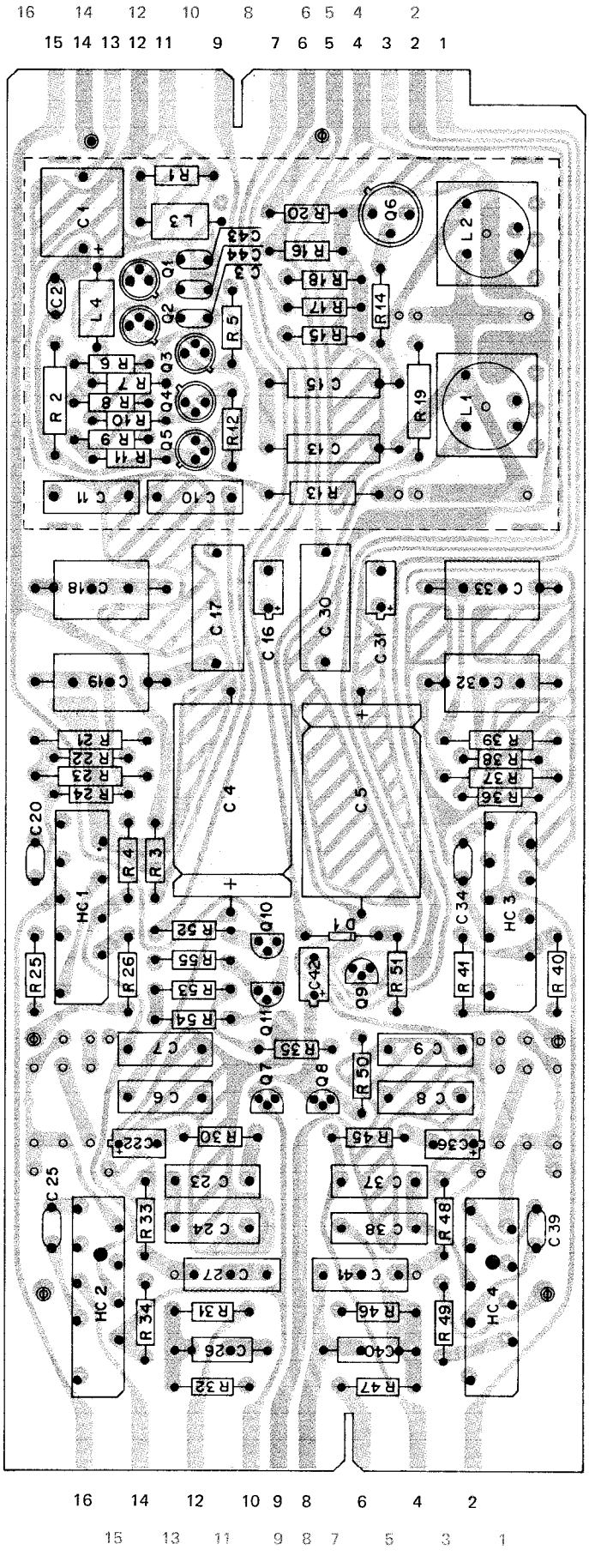
			Unspezified carbon film resistors: 1/8 W – 5%	* * Commercial types
IDENTIFI-CATION	PART NAME	TYPE / REMARKS	SPECIFICATIONS	ORDER NUMBER
R 20	Resistor	carbon film	1 M	* *
R 21	Resistor	carbon film	1 M	* *
R 22	Resistor	carbon film	1 M	* *
R 23	Resistor	carbon film	15 k	* *



DC VOLTAGES
AC VOLTAGES *POTENTIOMETERS COUNTER-CLOCKWISE*

	FIRST	LAST	MISSING
C	1	44	12/14/21/28/29/35
D	1	–	
HC	1	4	
L	1	4	
Q	1	11	
R	1	55	27/28/29/42/43/44

SYNC PREAMPLIFIER **GR 51 EL 4**
PC CARD **1.080.884**

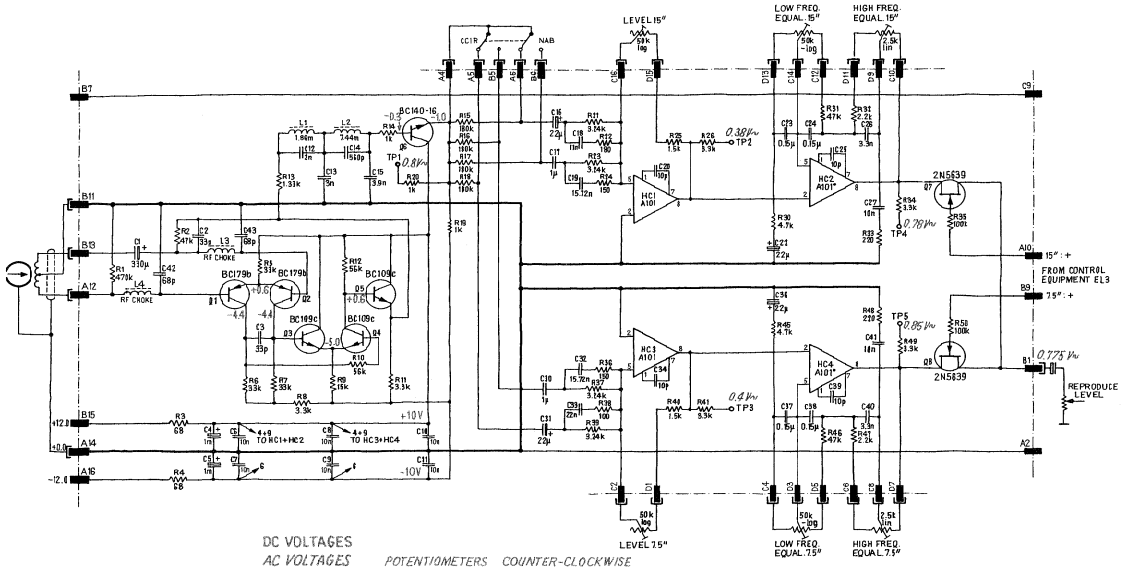

16 14 12 10 8 6 5 4 2
15 14 13 12 11 9 7 6 5 4 3 2 1
C 1
L 3
R 1
C 43
C 44
C 3
Q 1
Q 2
Q 3
Q 4
Q 5
C 2
L 4
R 5
R 12
R 2
R 6
R 7
R 8
R 10
R 9
R 11
C 11
C 10
R 20
R 16
R 18
R 17
R 15
R 14
Q 6
L 2
C 15
C 13
R 19
L 1
R 13
C 18
C 17
C 16
C 30
C 31
C 33
C 19
C 32
R 21
R 22
R 23
R 24
R 39
R 38
R 37
R 36
C 20
C 4
C 5
HC 1
R 4
R 3
HC 3
C 34
R 52
Q 10
D 1
R 25
R 26
R 55
R 53
R 54
Q 11
C 42
Q 9
R 51
R 41
R 40
C 7
R 35
C 9
Q 7
Q 8
R 50
C 6
C 8
C 22
R 30
R 45
C 36
C 25
C 23
C 37
R 33
R 48
C 24
C 38
C 39
HC 2
C 27
C 41
R 34
R 31
R 46
HC 4
C 26
C 40
R 49
R 32
R 47
16 14 12 10 9 8 6 4 2
15 13 11 9 8 7 5 3 1

		Unspezified carbon film resistors: 1/8 W – 5%	* * Commercial types

IDENTIFICATION	PART NAME	TYPE / REMARKS	SPECIFICATIONS	ORDER NUMBER
	Sync Preamplifier	Board assembled		1.080.884
C 1	Capacitor	tantalum	330 µ F – 20% – 6,3 V	* *
C 2	Capacitor	ceramic	33 p F – 10% – 500 V	* *
C 3	Capacitor	ceramic	68 p F – 10% – 500 V	* *
C 4	Capacitor	elektrolytic	1000 µ F – 50% – 18 V	* *
C 5	Capacitor	elektrolytic	1000 µ F – 50% – 18 V	* *
C 6	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 7	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 8	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 9	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 10	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 11	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 13	Capacitor	polystyrol	2 n F – 1% – 125 V	* *
C 15	Capacitor	polystyrol	3 n F – 1% – 125 V	* *
C 16	Capacitor	tantalum	22 µ F – 20% – 6,3 V	* *
C 17	Capacitor	polycarbonat	1 µ F – 2% – 63 V	* *
C 18	Capacitor	polystyrol	11 n F – 1,2% – 63 V	59.04.0001
C 19	Capacitor	polystyrol	15,7 n F – 1,2% – 63 V	59.04.0002
C 20	Capacitor	ceramic	10 p F – 20% – 500 V	* *
C 22	Capacitor	tantalum	22 µ F – 20% – 6,3 V	* *
C 23	Capacitor	polycarbonat	33 n F – 2% – 63 V	* *
C 24	Capacitor	polycarbonat	33 n F – 2% – 63 V	* *
C 25	Capacitor	ceramic	10 p F – 20% – 500 V	* *
C 26	Capacitor	polystyrol	3,3 n F – 10% – 63 V	* *
C 27	Capacitor	polycarbonat	10 n F – 5% – 250 V	* *
C 30	Capacitor	polycarbonat	1 µ F – 2% – 63 V	* *
C 31	Capacitor	tantalum	22 µ F – 20% – 6,3 V	* *
C 32	Capacitor	polystyrol	15,7 n F – 1,2% – 63 V	59.04.0002
C 33	Capacitor	polystyrol	22 n F – 1% – 63 V	* *
C 34	Capacitor	ceramic	10 p F – 20% – 500 V	* *
C 36	Capacitor	tantalum	22 µ F – 20% – 6,3 V	* *
C 37	Capacitor	polycarbonat	33 n F – 2% – 63 V	* *
C 38	Capacitor	polycarbonat	33 n F – 2% – 63 V	* *
C 39	Capacitor	ceramic	10 p F – 20% – 500 V	* *
C 40	Capacitor	polystyrol	3,3 n F – 10% – 63 V	* *
C 41	Capacitor	polycarbonat	10 n F – 5% – 250 V	* *
C 42	Capacitor	tantalum	22 µ F – 20% – 6,3 V	* *
C 43	Capacitor	ceramic	68 p F – 10% – 500 V	* *
C 44	Capacitor	ceramic	68 p F – 10% – 500 V	* *
D 1	Si – Diode	1 N 4448		* *
HC 1	Hybrid – Circuit	A 101	4 dB	1.010.101.50
HC 2	Hybrid – Circuit	A 101 (wht)	6 dB	1.010.102.50
HC 3	Hybrid – Circuit	A 101	4 dB	1.010.101.50
HC 4	Hybrid – Circuit	A 101 (wht)	6 dB	1.010.102.50

			Unspezified carbon film resistors: 1/8 W – 5%	* * Commercial types
IDENTIFICATION	PART NAME	TYPE / REMARKS	SPECIFICATIONS	ORDER NUMBER
L 1	Choke Coil		19,3 m H – 3%	1.022.122.00
L 2	Choke Coil		80 m H – 3%	1.022.124.00
L 3	Choke Coil	wideband		62.01.0115
L 4	Choke Coil	wideband		62.01.0115
Q 1	Transistor	BC 179 B		* *
Q 2	Transistor	BC 179 B		* *
Q 3	Transistor	BC 109 C		* *
Q 4	Transistor	BC 109 C		* *
Q 5	Transistor	BC 109 C		* *
Q 6	Transistor	BC 140 – 16		* *
Q 7	FET	P 1087 E		* *
Q 8	FET	P 1087 E		* *
Q 9	FET	P 1087 E		* *
Q 10	FET	2 N 5462		* *
Q 11	FET	2 N 5462		* *
R 1	Resistor	carbon film	470 k	* *
R 2	Resistor	metal film	47 k – 2% – 0,33 W	* *
R 3	Resistor	carbon film	68	* *
R 4	Resistor	carbon film	68	* *
R 5	Resistor	carbon film	33 k	* *
R 6	Resistor	carbon film	33 k	* *
R 7	Resistor	carbon film	33 k	* *
R 8	Resistor	carbon film	3,3 k	* *
R 9	Resistor	carbon film	15 k	* *
R 10	Resistor	carbon film	56 k	* *
R 11	Resistor	carbon film	3,3 k	* *
R 12	Resistor	carbon film	56 k	* *
R 13	Resistor	metal film	5,1 k – 1% – 0,33 W	* *
R 14	Resistor	carbon film	1 k	* *
R 15	Resistor	carbon film	180 k	* *
R 16	Resistor	carbon film	180 k	* *
R 17	Resistor	carbon film	180 k	* *
R 18	Resistor	carbon film	180 k	* *
R 19	Resistor	carbon film	1 k – 5% – 0,33 W	* *
R 20	Resistor	carbon film	1 k	* *
R 21	Resistor	metal film	3,24 k – 1% – 0,33 W	57.39.3241
R 22	Resistor	carbon film	180	* *
R 23	Resistor	metal film	3,24 k – 1% – 0,33 W	57.39.3241
R 24	Resistor	carbon film	150	* *
R 25	Resistor	carbon film	1,5 k	* *
R 26	Resistor	carbon film	3,3 k	* *
R 30	Resistor	carbon film	4,7 k	* *
R 31	Resistor	carbon film	68 k	* *
R 32	Resistor	carbon film	2,2 k	* *
R 33	Resistor	carbon film	220	* *
R 34	Resistor	carbon film	3,3 k	* *
R 35	Resistor	carbon film	100 k	* *

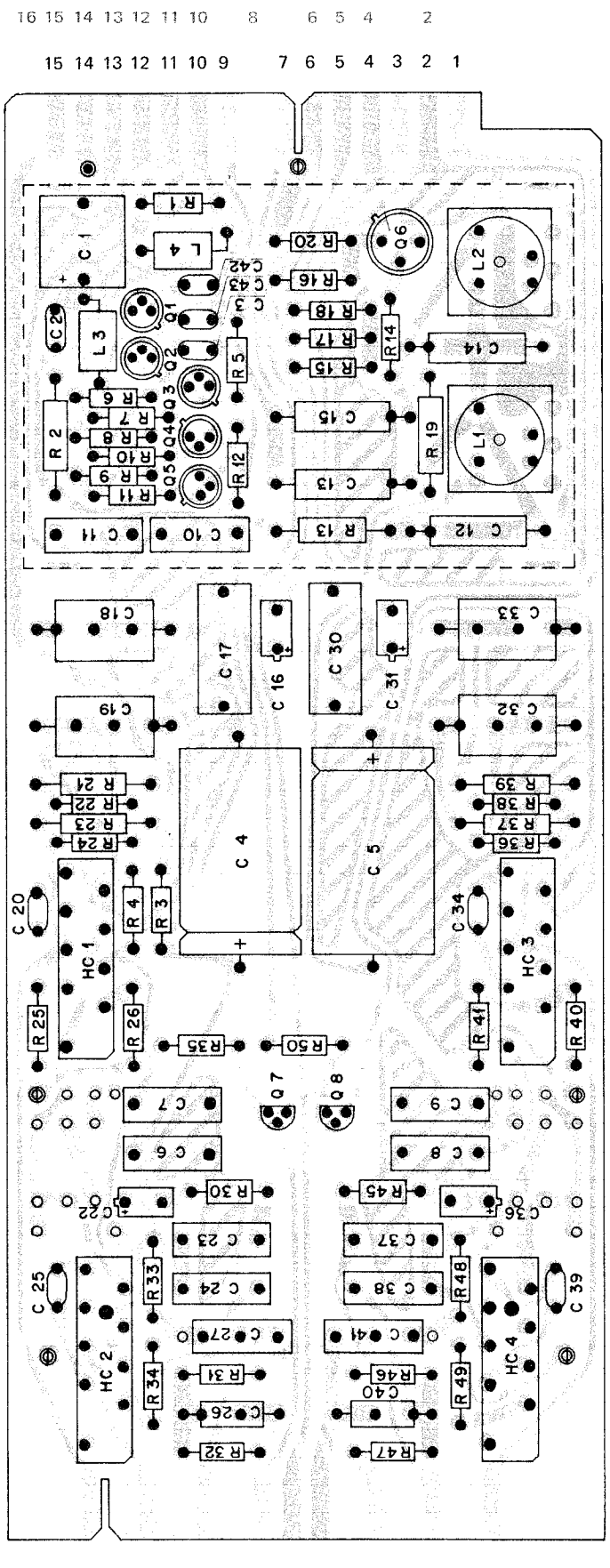
			Unspezified carbon film resistors: 1/8 W – 5%	* * Commercial types
IDENTIFI-CATION	PART NAME	TYPE / REMARKS	SPECIFICATIONS	ORDER NUMBER
R 36	Resistor	carbon film	150	* *
R 37	Resistor	metal film	3,24 k – 1% –0,33 W	57.39.3241
R 38	Resistor	carbon film	100	* *
R 39	Resistor	metal film	3,24 k – 1% –0,33 W	57.39.3241
R 40	Resistor	carbon film	1,5 k	* *
R 41	Resistor	carbon film	3,3 k	* *
R 45	Resistor	carbon film	4,7 k	* *
R 46	Resistor	carbon film	68 k	* *
R 47	Resistor	carbon film	2,2 k	* *
R 48	Resistor	carbon film	220	* *
R 49	Resistor	carbon film	3,3 k	* *
R 50	Resistor	carbon film	100 k	* *
R 51	Resistor	carbon film	100 k	* *
R 52	Resistor	carbon film	1 M	* *
R 53	Resistor	carbon film	33 k	* *
R 54	Resistor	carbon film	33 k	* *
R 55	Resistor	carbon film	1 M	* *



	FIRST	LAST	MISSING
C	1	43	21/28/29/35
HC	1	4	
L	1	4	
Q	1	8	
R	1	50	27 – 29/42 – 44

REPRODUCE PREAMPLIFIER PC CARD

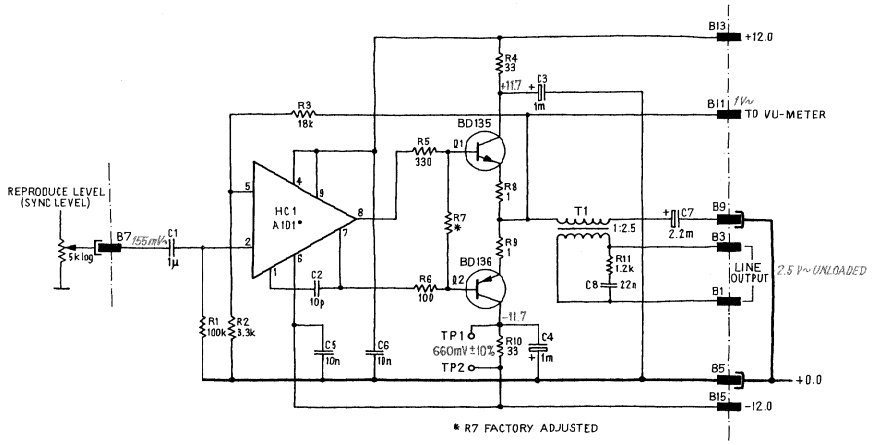
GR 51 EL 5
1.080.885


16 15 14 13 12 11 10 8 6 5 4 2
15 14 13 12 11 10 9 7 6 5 4 3 2 1
C 1
L 4
R 1
C 42
C 43
C 3
Q1
Q2
Q3
Q4
Q5
C 2
L 3
R 5
R 6
R 7
R 8
R 10
R 9
R 11
R 12
R 2
C 11
C 10
Q6
R 20
R 16
R 18
R 17
R 15
R14
C 14
C 15
R 19
C 13
R 13
C 12
L2
L1
C 18
C 17
C 16
C 30
C 31
C 33
C 19
C 32
R 21
R 22
R 23
R 24
R 39
R 38
R 37
R 36
C 4
C 5
C 20
C 34
R 4
R 3
HC 1
HC 3
R 25
R 26
R 41
R 40
R35
R50
Q7
Q8
C 7
C 6
C 9
C 8
R 30
R 45
C22
C36
C 23
C 24
C 37
C 38
C 25
C 39
R 33
R 34
R 48
R 49
HC 2
HC 4
C 27
C 26
R 31
R 32
C 41
R 46
C40
R 47
16 14 12 10 9 8 6 4 2
15 13 11 9 8 7 5 3 1

			Unspezified carbon film resistors: 1/8 W – 5%	* * Commercial types
IDENTIFI-CATION	PART NAME	TYPE / REMARKS	SPECIFICATIONS	ORDER NUMBER
	Reproduce Preamplifier	Board assembled		1.080.885
C 1	Capacitor	tantalum	330 µ F – 20% – 6,3 V	* *
C 2	Capacitor	ceramic	33 p F – 10% – 500 V	* *
C 3	Capacitor	ceramic	33 p F – 10% – 500 V	* *
C 4	Capacitor	elektrolytic	1000 µ F – 50% – 18 V	* *
C 5	Capacitor	elektrolytic	1000 µ F – 50% – 18 V	* *
C 6	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 7	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 8	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 9	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 10	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 11	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 12	Capacitor	polystyrol	2 n F – 1% – 125 V	* *
C 13	Capacitor	polystyrol	3 n F – 1% – 125 V	* *
C 14	Capacitor	polystyrol	560 p F – 1% – 63 V	* *
C 15	Capacitor	polystyrol	3,9 n F – 1% – 63 V	* *
C 16	Capacitor	tantalum	22 µ F – 20% – 6,3 V	* *
C 17	Capacitor	polycarbonat	1 µ F – 2% – 63 V	* *
C 18	Capacitor	polystyrol	11 n F – 1,2% – 63 V	59.04.0001
C 19	Capacitor	polystyrol	15,7 n F – 1,2% – 63 V	59.04.0002
C 20	Capacitor	ceramic	10 p F – 20% – 500 V	* *
C 22	Capacitor	tantalum	22 µ F – 20% – 6,3 V	* *
C 23	Capacitor	polycarbonat	150 n F – 2% – 63 V	* *
C 24	Capacitor	polycarbonat	150 n F – 2% – 63 V	* *
C 25	Capacitor	ceramic	10 p F – 20% – 500 V	* *
C 26	Capacitor	polystyrol	3,3 n F – 10% – 63 V	* *
C 27	Capacitor	polycarbonat	10 n F – 5% – 250 V	* *
C 30	Capacitor	polycarbonat	1 µ F – 2% – 63 V	* *
C 31	Capacitor	tantalum	22 µ F – 20% – 6,3 V	* *
C 32	Capacitor	polystyrol	15,7 n F – 1,2% – 63 V	59.04.0002
C 33	Capacitor	polystyrol	22 n F – 1% – 63 V	* *
C 34	Capacitor	ceramic	10 p F – 20% – 500 V	* *
C 36	Capacitor	tantalum	22 µ F – 20% – 6,3 V	* *
C 37	Capacitor	polycarbonat	150 n F – 2% – 63 V	* *
C 38	Capacitor	polycarbonat	150 n F – 2% – 63 V	* *
C 39	Capacitor	ceramic	10 p F – 20% – 500 V	* *
C 40	Capacitor	polystyrol	3,3 n F – 10% – 63 V	* *
C 41	Capacitor	polycarbonat	10 n F – 5% – 250 V	* *
C 42	Capacitor	ceramic	68 p F – 10% – 500 V	* *
C 43	Capacitor	ceramic	68 p F – 10% – 500 V	* *
HC 1	Hybrid Circuit	A 101	4 dB	1.010.101.50
HC 2	Hybrid Circuit	A 101 (wht)	6 dB	1.010.102.50
HC 3	Hybrid Circuit	A 101	4 dB	1.010.101.50
HC 4	Hybrid Circuit	A 101 (wht)	6 dB	1.010.102.50

			Unspezified carbon film resistors: 1/8 W – 5%	* * Commercial types
IDENTIFI-CATION	PART NAME	TYPE / REMARKS	SPECIFICATIONS	ORDER NUMBER
L 1	Choke Coil		1,86 m H – 3%	1.022.108.00
L 2	Choke Coil		7,44 m H – 3%	1.022.106.00
L 3	Choke Coil	wideband		62.01.0115
L 4	Choke Coil	wideband		62.01.0115
Q 1	Transistor	BC 179 B		* *
Q 2	Transistor	BC 179 B		* *
Q 3	Transistor	BC 109 C		* *
Q 4	Transistor	BC 109 C		* *
Q 5	Transistor	BC 109 C		* *
Q 6	Transistor	BC 140 – 16		* *
Q 7	FET	2 N 5639		* *
Q 8	FET	2 N 5639		* *
R 1	Resistor	carbon film	470 k	* *
R 2	Resistor	metal film	47 k – 2% –0,33 W	* *
R 3	Resistor	carbon film	68	* *
R 4	Resistor	carbon film	68	* *
R 5	Resistor	carbon film	33 k	* *
R 6	Resistor	carbon film	33 k	* *
R 7	Resistor	carbon film	33 k	* *
R 8	Resistor	carbon film	3,3 k	* *
R 9	Resistor	carbon film	15 k	* *
R 10	Resistor	carbon film	56 k	* *
R 11	Resistor	carbon film	3,3 k	* *
R 12	Resistor	carbon film	56 k	* *
R 13	Resistor	metal film	1,33 k – 1% –0,33 W	57.39.1331
R 14	Resistor	carbon film	1 k	* *
R 15	Resistor	carbon film	180 k	* *
R 16	Resistor	carbon film	180 k	* *
R 17	Resistor	carbon film	180 k	* *
R 18	Resistor	carbon film	180 k	* *
R 19	Resistor	carbon film	1 k – 5% –0,33 W	* *
R 20	Resistor	carbon film	1 k	* *
R 21	Resistor	metal film	3,24 k – 1% –0,33 W	57.39.3241
R 22	Resistor	carbon film	180	* *
R 23	Resistor	metal film	3,24 k – 1% –0,33 W	57.39.3241
R 24	Resistor	carbon film	150	* *
R 25	Resistor	carbon film	1,5 k	* *
R 26	Resistor	carbon film	3,3 k	* *
R 30	Resistor	carbon film	4,7 k	* *
R 31	Resistor	carbon film	47 k	* *
R 32	Resistor	carbon film	2,2 k	* *
R 33	Resistor	carbon film	220	* *
R 34	Resistor	carbon film	3,3 k	* *
R 35	Resistor	carbon film	100 k	* *
R 36	Resistor	carbon film	150	* *
R 37	Resistor	metal film	3,24 k – 1% –0,33 W	57.39.3241

			Unspezified carbon film resistors: 1/8 W – 5%	* * Commercial types
IDENTIFI-CATION	PART NAME	TYPE / REMARKS	SPECIFICATIONS	ORDER NUMBER
R 38	Resistor	carbon film	100	* *
R 39	Resistor	metal film	3,24 k – 1% –0,33 W	57.39.3241
R 40	Resistor	carbon film	1,5 k	* *
R 41	Resistor	carbon film	3,3 k	* *
R 45	Resistor	carbon film	4,7 k	* *
R 46	Resistor	carbon film	47 k	* *
R 47	Resistor	carbon film	2,2 k	* *
R 48	Resistor	carbon film	220	* *
R 49	Resistor	carbon film	3,3 k	* *
R 50	Resistor	carbon film	100 k	* *

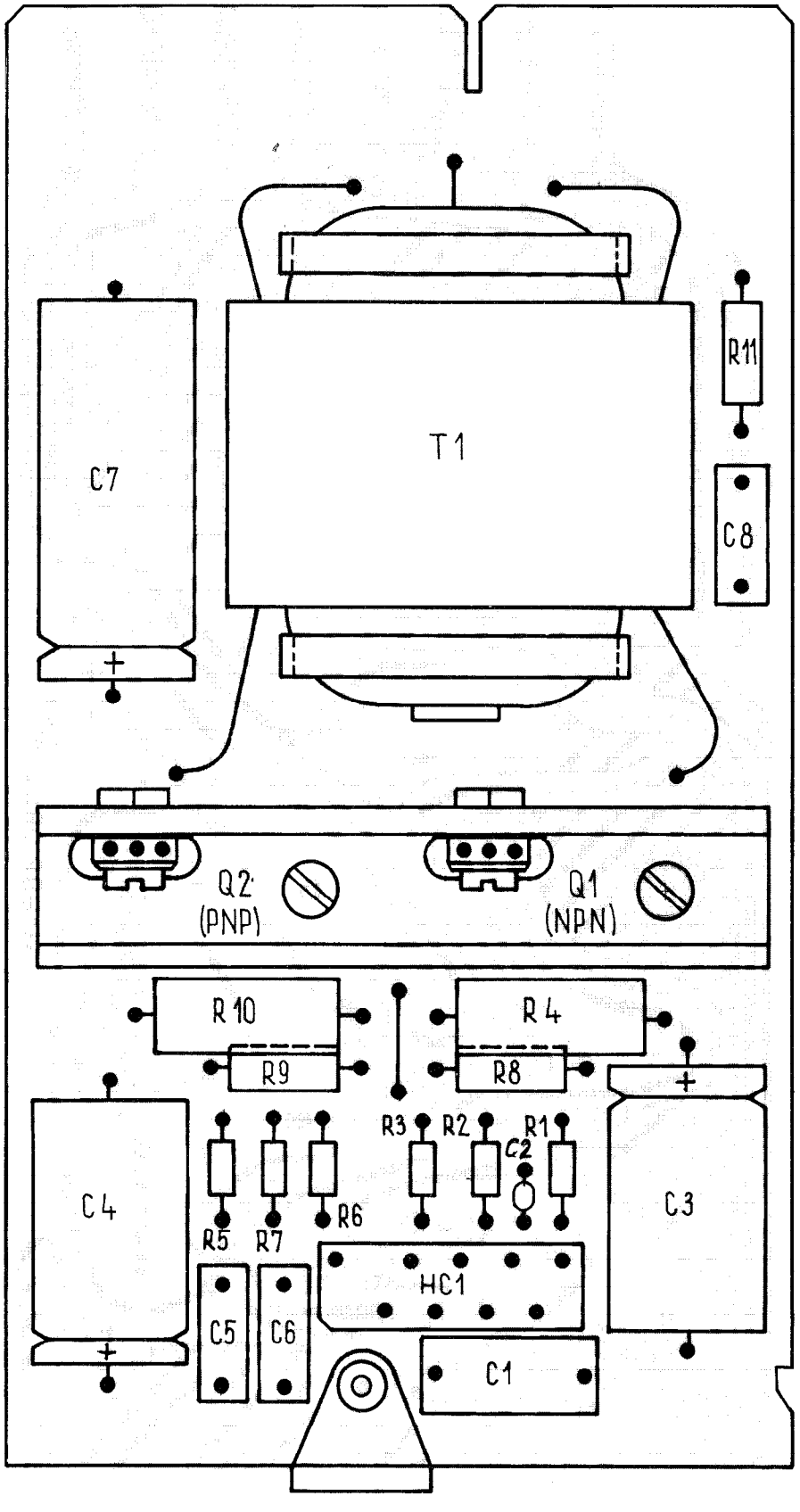


DC VOLTAGES
AC VOLTAGES

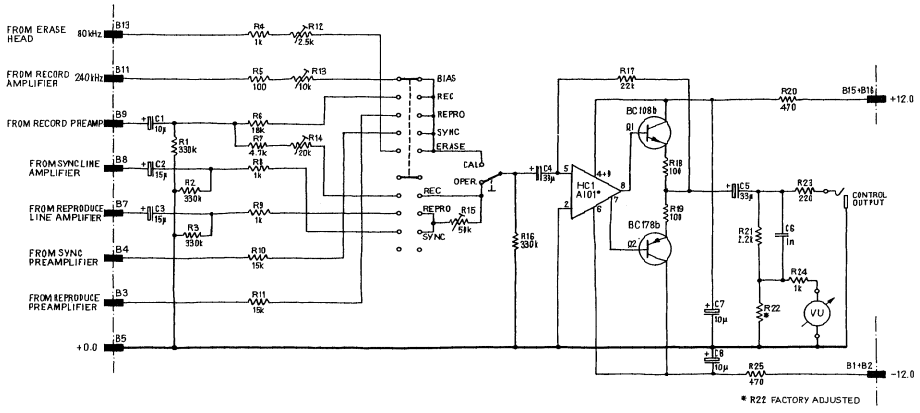
	FIRST	LAST	MISSING
C	1	8	
HC	1	–	
Q	1	2	
R	1	11	
T	1	–	

REPRODUCE LINE AMPLIFIER	GR 51 EL 7
SYNC LINE AMPLIFIER	GR 51 EL 6
PC CARD	1.080.886

15 13 11 9 7 5 3 1

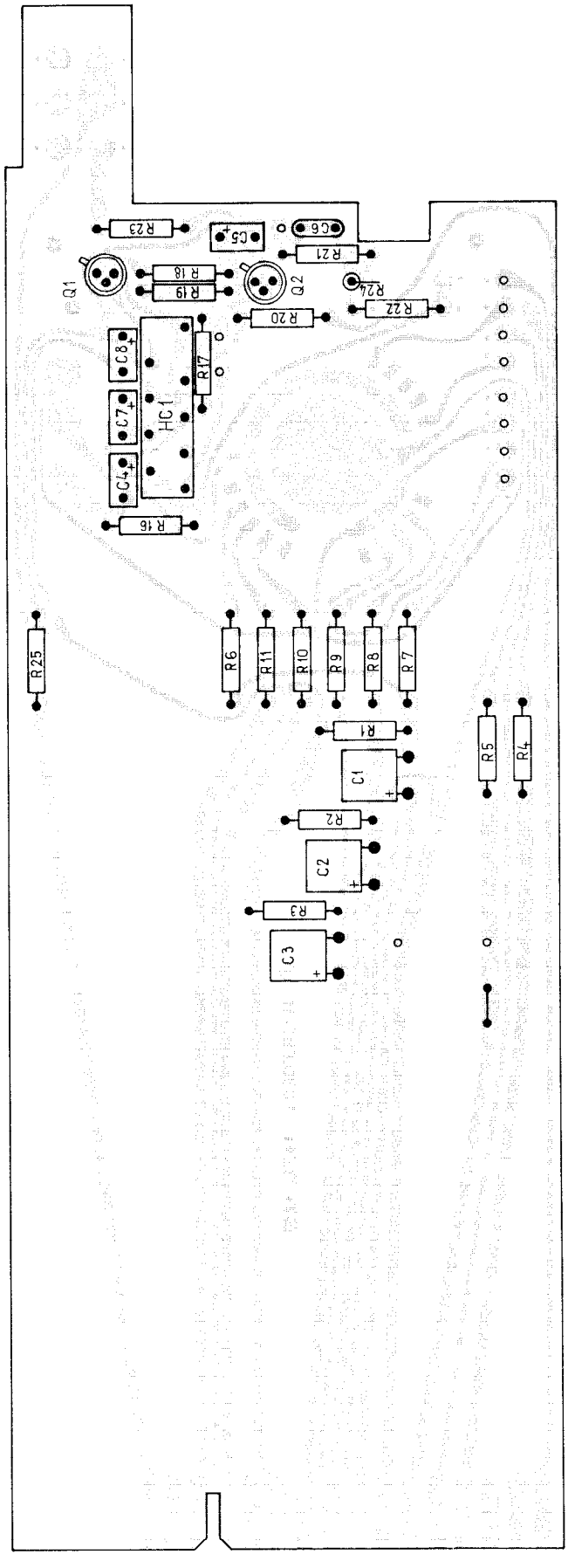


			Unspezified carbon film resistors: 1/8 W – 5%	* * Commercial types
IDENTIFI-CATION	PART NAME	TYPE / REMARKS	SPECIFICATIONS	ORDER NUMBER
	Reproduce Line Applifier	Board assembled		1.080.886
	Sync. Line Amplifier	Board assembled		1.080.886
C 1	Capacitor	polycarbonat	1 µF – 10% – 63 V	* *
C 2	Capacitor	ceramic	10 pF – 20% – 500 V	* *
C 3	Capacitor	elektrolytic	1000 µF – 50% – 18 V	* *
C 4	Capacitor	elektrolytic	1000 µF – 50% – 18 V	* *
C 5	Capacitor	polycarbonat	10 nF – 10% – 250 V	* *
C 6	Capacitor	polycarbonat	10 nF – 10% – 250 V	* *
C 7	Capacitor	elektrolytic	2200 µF – 50% – 6 V	* *
C 8	Capacitor	polycarbonat	22 nF – 10% – 250 V	* *
HC 1	Hybrid Circuit	A 101 (wht)	6 dB	1.010.102.50
Q 1	Transistor	BD 135 (2 SC 496)		* *
Q 2	Transistor	BD 136 (2 SA 496)		* *
R 1	Resistor	carbon film	100 k	* *
R 2	Resistor	carbon film	3,3 k	* *
R 3	Resistor	carbon film	18 k	* *
R 4	Resistor	carbon film	33 – 5% – 1 W	* *
R 5	Resistor	carbon film	330	* *
R 6	Resistor	carbon film	100	* *
R 7	Resistor	carbon film	balancing value	* *
R 8	Resistor	carbon film	1 – 5% –0,33 W	* *
R 9	Resistor	carbon film	1 – 5% –0,33 W	* *
R 10	Resistor	carbon film	33	* *
R 11	Resistor	carbon film	1,2 k – 5% –0,33 W	* *
T 1	Line Transformer		1 : 2,5	1.090.201



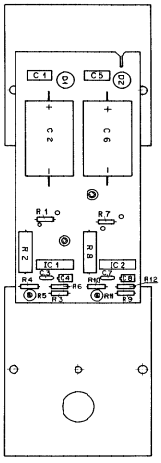
VU–METER

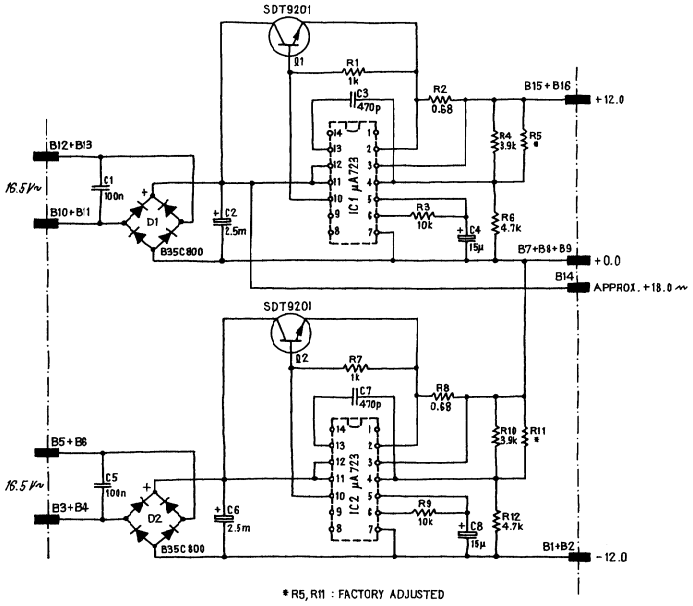
GR 51 EL 8
1.080.887



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

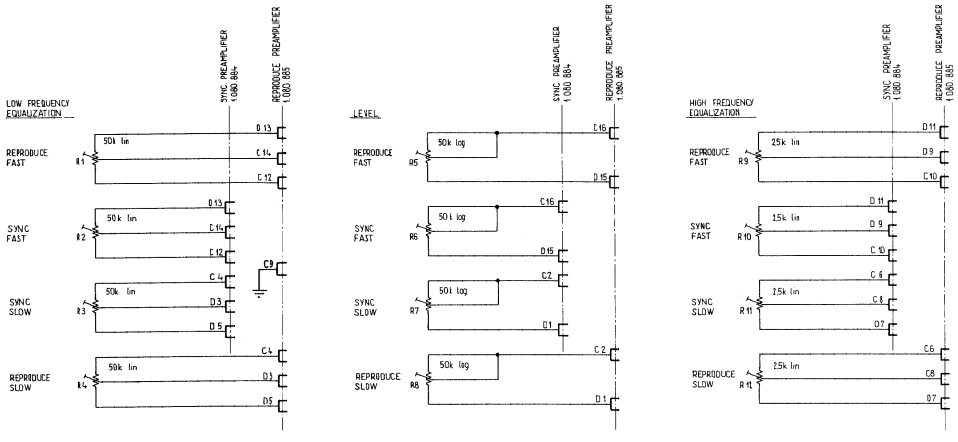
			Unspezified carbon film resistors: 1/8 W – 5%	* * Commercial types
IDENTIFI-CATION	PART NAME	TYPE / REMARKS	SPECIFICATIONS	ORDER NUMBER
	VU-Meter	Board assembled		1.080.887
C 1	Capacitor	tantalum	10 µF – 20% – 16 V	* *
C 2	Capacitor	tantalum	15 µF – 20% – 10 V	* *
C 3	Capacitor	tantalum	15 µF – 20% – 10 V	* *
C 4	Capacitor	tantalum	33 µF – 20% – 10 V	* *
C 5	Capacitor	tantalum	33 µF – 20% – 10 V	* *
C 6	Capacitor	ceramic	1 nF – 20% – 500 V	* *
C 7	Capacitor	tantalum	10 µF – 20% – 16 V	* *
C 8	Capacitor	tantalum	10 µF – 20% – 16 V	* *
HC 1	Hybrid Circuit	A 101 (wht)	6 dB	1.010.102.50
Q 1	Transistor	BC 108 B		* *
Q 2	Transistor	BC 178 B		* *
R 1	Resistor	carbon film	330 k – 5% –0,25 W	* *
R 2	Resistor	carbon film	330 k – 5% –0,25 W	* *
R 3	Resistor	carbon film	330 k – 5% –0,25 W	* *
R 4	Resistor	carbon film	1 k – 5% –0,25 W	* *
R 5	Resistor	carbon film	100 – 5% –0,25 W	* *
R 6	Resistor	carbon film	18 k – 5% –0,25 W	* *
R 7	Resistor	carbon film	4,7 k – 5% –0,25 W	* *
R 8	Resistor	carbon film	1 k – 5% –0,25 W	* *
R 9	Resistor	carbon film	1 k – 5% –0,25 W	* *
R 10	Resistor	carbon film	15 k – 5% –0,25 W	* *
R 11	Resistor	carbon film	15 k – 5% –0,25 W	* *
R 16	Resistor	carbon film	330 k – 5% –0,25 W	* *
R 17	Resistor	carbon film	22 k – 2% –0,25 W	* *
R 18	Resistor	carbon film	100 – 5% –0,25 W	* *
R 19	Resistor	carbon film	100 – 5% –0,25 W	* *
R 20	Resistor	carbon film	470 – 5% –0,25 W	* *
R 21	Resistor	carbon film	2,2 k – 5% –0,25 W	* *
R 22	Resistor	carbon film	balancing value	* *
R 23	Resistor	carbon film	220 – 5% –0,25 W	* *
R 24	Resistor	carbon film	1 k – 5% –0,25 W	* *
R 25	Resistor	carbon film	470 – 5% –0,25 W	* *



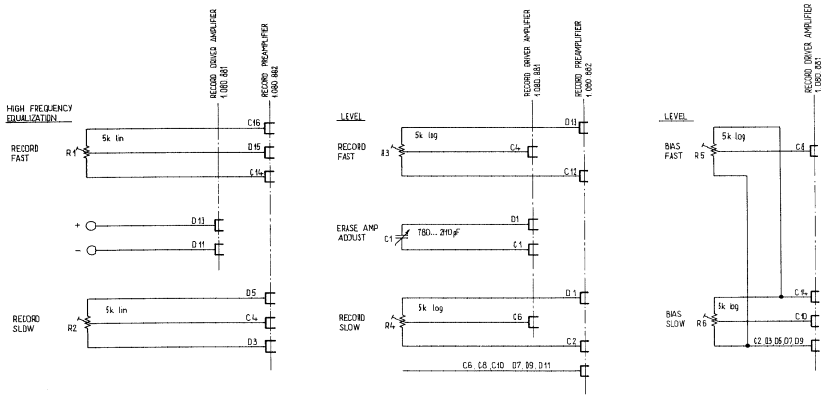


* R5, R11 : FACTORY ADJUSTED

STUDER	1.080.888
STABILIZER	
A80/VU MK I / MK II	ED 3 8.77



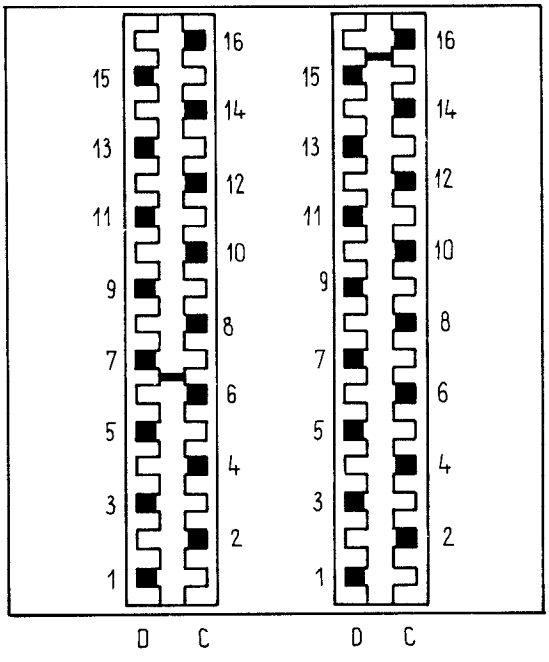
STUDER	1.080.889
REPRODUCE ADJUSTMENT	
A80/VU MK II	ED 2 5.77



STUDER	1.080.890
RECORD ADJUSTMENT	
A80/VU MK II	ED 2 5.77

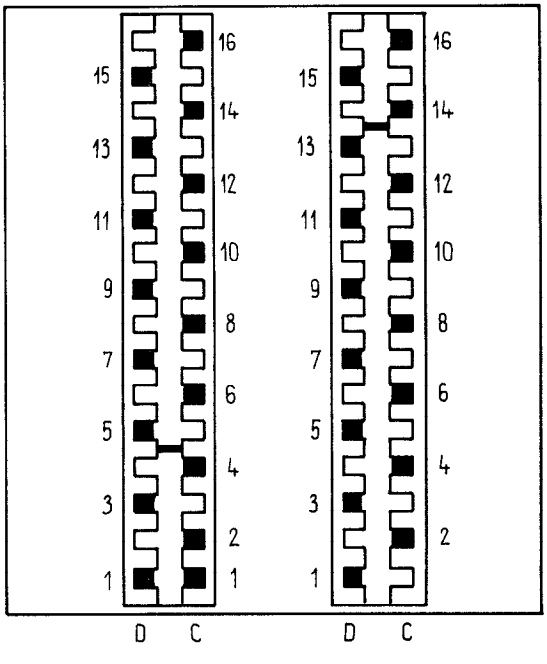
SYNC
PREAMP
1.080.884

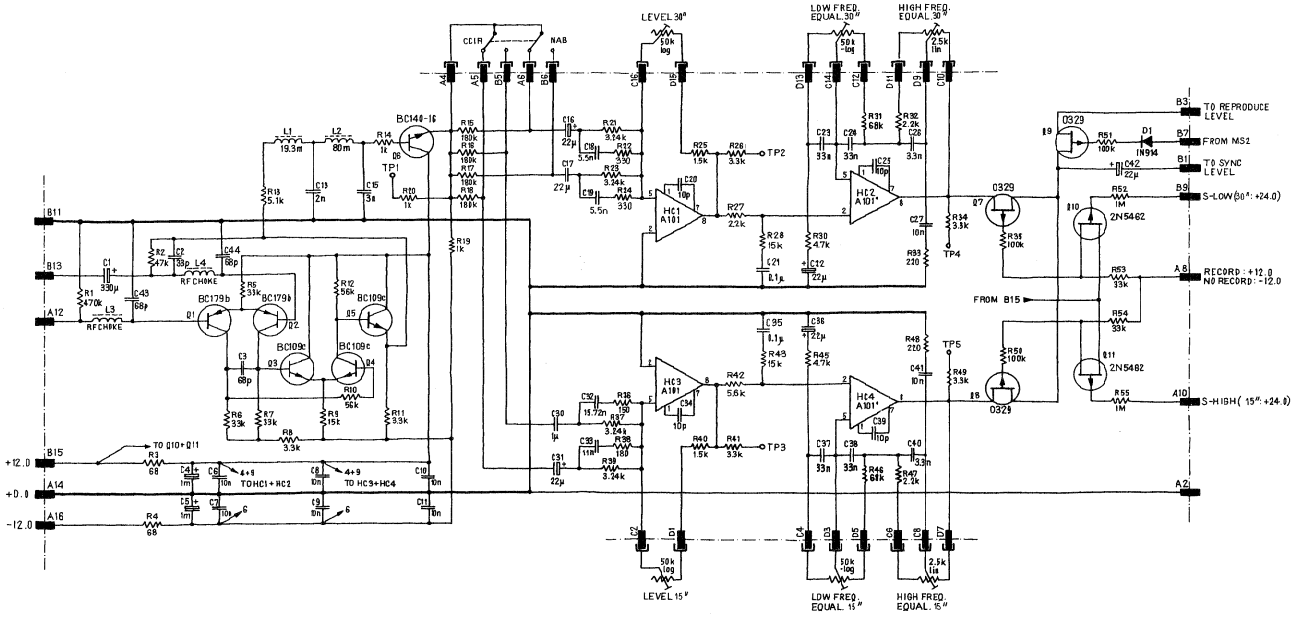
REPRODUCE
PREAMP
1.080.885



RECORD
DRIVER AMP
1.080.881

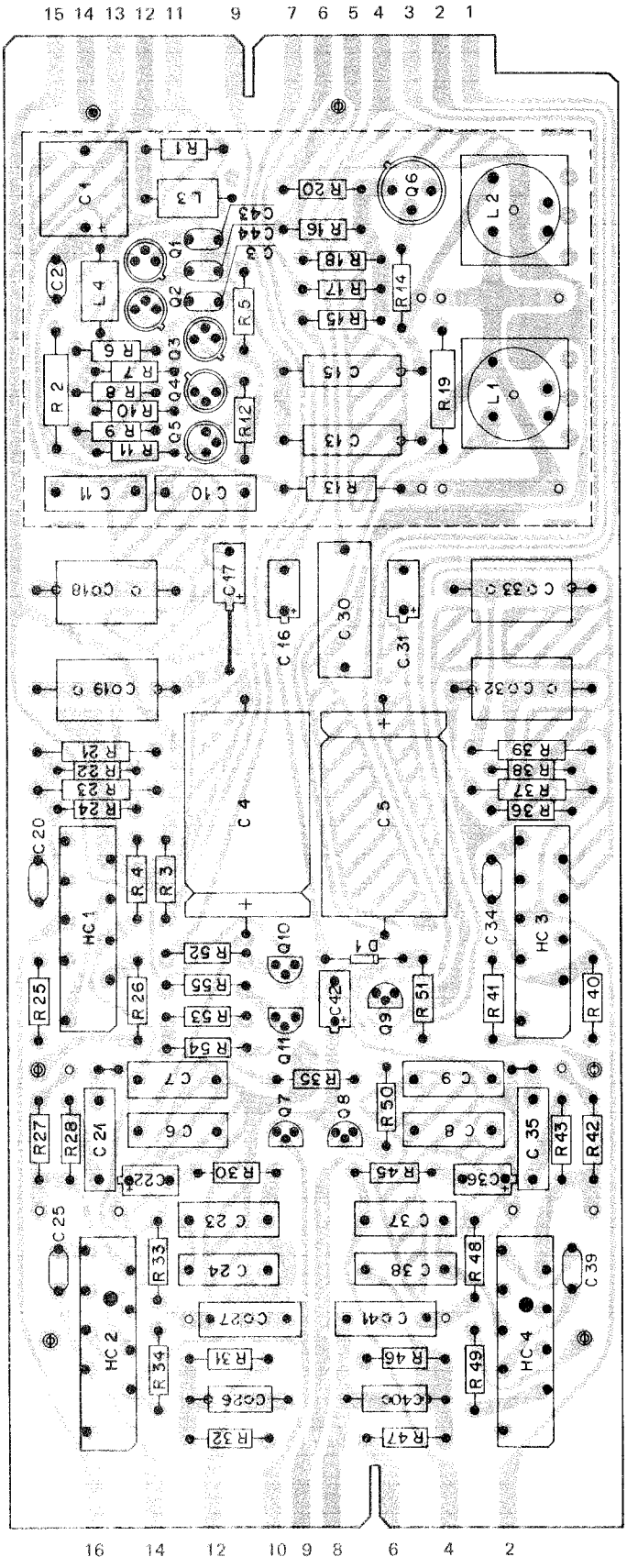
RECORD
PREAMP
1.080.882





	FIRST	LAST	MISSING
C	1	44	12 / 14 / 28 / 29
D	1	–	
HC	1	4	
L	1	4	
Q	1	11	
R	1	55	29 / 44

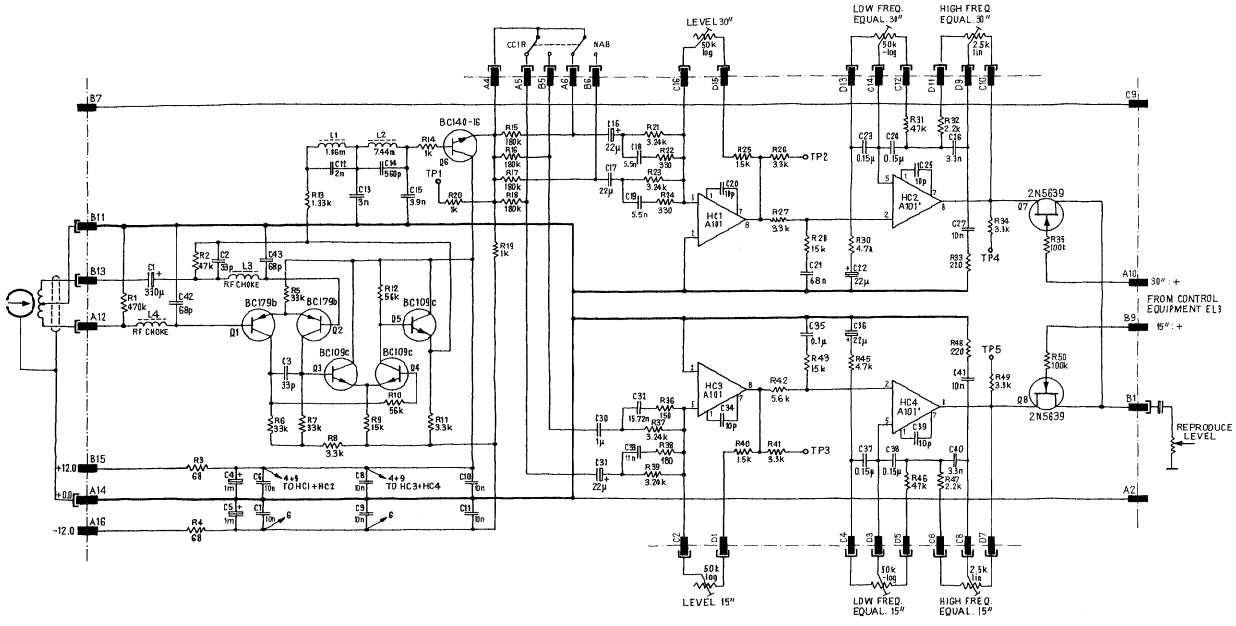
SYNC PREAMPLIFIER 15/30 ips **GR 51 EL 4**
PC CARD **1.080.894**


15 14 13 12 11 9 7 6 5 4 3 2 1
C1
R1
L3
C43
C44
Q1
Q2
Q3
Q4
Q5
C2
L4
R5
R6
R7
R8
R10
R9
R11
R2
R12
Q6
R20
R16
R18
R17
R15
R14
L2
L1
R19
C15
C13
R13
C11
C10
C18
C19
C17
C16
C30
C31
C33
C32
R21
R22
R23
R24
R39
R38
R37
R36
C4
C5
HC1
HC2
HC3
HC4
HC20
HC25
R4
R3
R25
R26
R52
R55
R53
R54
Q10
Q11
D1
C42
Q9
R51
C34
R41
R40
C7
C6
C21
R27
R28
C22
R30
Q7
Q8
R35
C9
C8
R50
R45
C36
C35
R43
R42
C23
C24
C27
R31
C26
R32
C37
C38
C41
R46
C40
R47
R33
R34
R48
R49
C39
16 14 12 10 9 8 6 4 2

			Unspezified carbon film resistors: 1/8 W – 5%	* * Commercial types
IDENTIFICATION	PART NAME	TYPE / REMARKS	SPECIFICATIONS	ORDER NUMBER
	Sync Preamplifier 15/30 ips	Board assembled		1.080.894
C 1	Capacitor	tantalum	330 µ F – 20% – 6,3 V	* *
C 2	Capacitor	ceramic	33 p F – 10% – 500 V	* *
C 3	Capacitor	ceramic	68 p F – 10% – 500 V	* *
C 4	Capacitor	elektrolytic	1000 µ F – 50% – 18 V	* *
C 5	Capacitor	elektrolytic	1000 µ F – 50% – 18 V	* *
C 6	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 7	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 8	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 9	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 10	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 11	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 13	Capacitor	polystyrol	2 n F – 1% – 125 V	* *
C 15	Capacitor	polystyrol	3 n F – 1% – 125 V	* *
C 16	Capacitor	tantalum	22 µ F – 20% – 6,3 V	* *
C 17	Capacitor	tantalum	22 µ F – 20% – 6,3 V	* *
C 18	Capacitor	polystyrol	5500 p F – 1,2% – 63 V	* *
C 19	Capacitor	polystyrol	5500 p F – 1,2% – 63 V	* *
C 20	Capacitor	ceramic	10 p F – 20% – 500 V	* *
C 21	Capacitor	polycarbonat	0,1 µ F – 10% – 100 V	* *
C 22	Capacitor	tantalum	22 µ F – 20% – 6,3 V	* *
C 23	Capacitor	polycarbonat	33 n F – 2% – 63 V	* *
C 24	Capacitor	polycarbonat	33 n F – 2% – 63 V	* *
C 25	Capacitor	ceramic	10 p F – 20% – 500 V	* *
C 26	Capacitor	polystyrol	3,3 n F – 10% – 63 V	* *
C 27	Capacitor	polycarbonat	10 n F – 5% – 250 V	* *
C 30	Capacitor	polycarbonat	1 µ F – 2% – 63 V	* *
C 31	Capacitor	tantalum	22 µ F – 20% – 6,3 V	* *
C 32	Capacitor	polystyrol	15,8 n F – 1,2% – 63 V	59.99.0307
C 33	Capacitor	polystyrol	11 n F – 1% – 63 V	* *
C 34	Capacitor	ceramic	10 p F – 20% – 500 V	* *
C 35	Capacitor	polycarbonat	0,1 µ F – 10% – 100 V	* *
C 36	Capacitor	tantalum	22 µ F – 20% – 6,3 V	* *
C 37	Capacitor	polycarbonat	33 n F – 2% – 63 V	* *
C 38	Capacitor	polycarbonat	33 n F – 2% – 63 V	* *
C 39	Capacitor	ceramic	10 p F – 20% – 500 V	* *
C 40	Capacitor	polystyrol	3,3 n F – 10% – 63 V	* *
C 41	Capacitor	polycarbonat	10 n F – 5% – 250 V	* *
C 42	Capacitor	tantalum	22 µ F – 20% – 6,3 V	* *
C 43	Capacitor	ceramic	68 p F – 10% – 500 V	* *
C 44	Capacitor	ceramic	68 p F – 10% – 500 V	* *
D 1	Si – Diode	1 N 914		* *

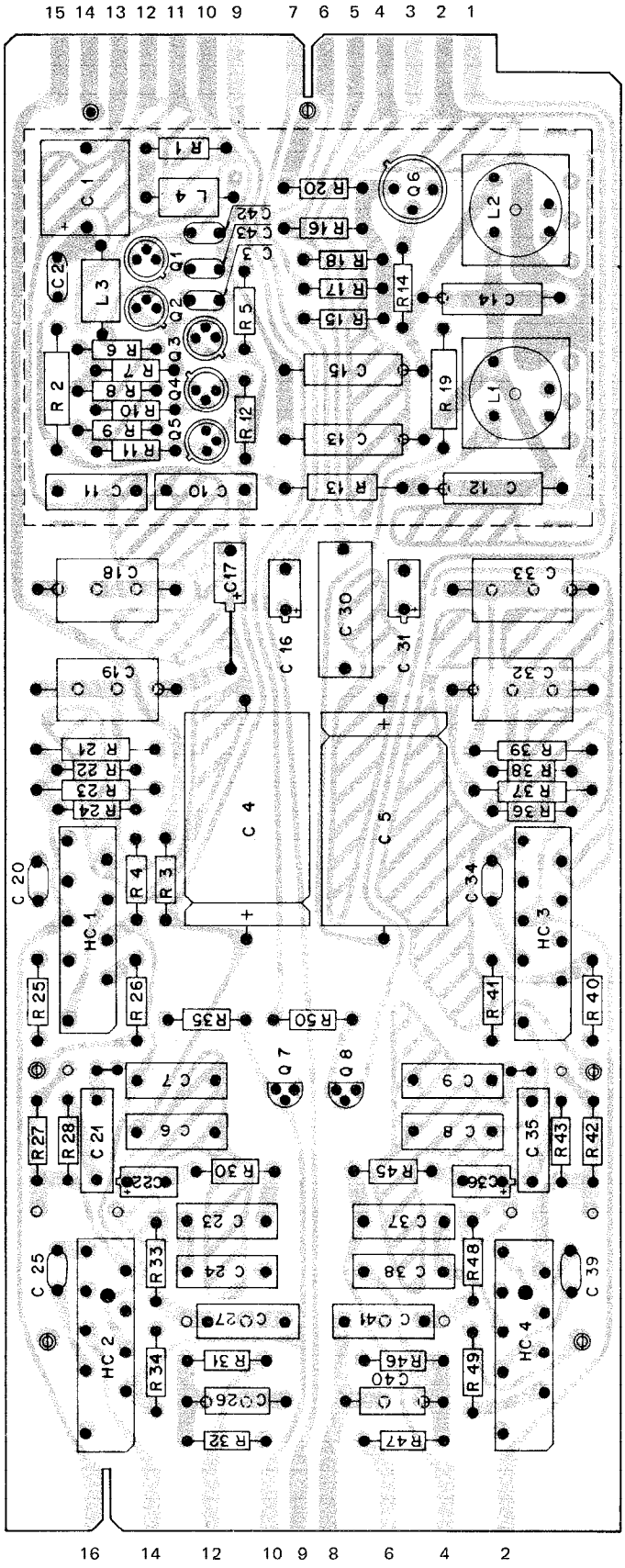
			Unspezified carbon film resistors: 1/8 W – 5%	* * Commercial types
IDENTIFI-CATION	PART NAME	TYPE / REMARKS	SPECIFICATIONS	ORDER NUMBER
HC 1	Hybrid – Circuit	A 101	4 dB	1.010.101.50
HC 2	Hybrid – Circuit	A 101 (wht)	6 dB	1.010.102.50
HC 3	Hybrid – Circuit	A 101	4 dB	1.010.101.50
HC 4	Hybrid – Circuit	A 101 (wht)	6 dB	1.010.102.50
L 1	Choke Coil		19,3 m H – 3%	1.022.122.00
L 2	Choke Coil		80 m H – 3%	1.022.124.00
L 3	Choke Coil	wideband		62.01.0115
L 4	Choke Coil	wideband		62.01.0115
Q 1	Transistor	BC 179 B		* *
Q 2	Transistor	BC 179 B		* *
Q 3	Transistor	BC 109 C		* *
Q 4	Transistor	BC 109 C		* *
Q 5	Transistor	BC 109 C		* *
Q 6	Transistor	BC 140 – 16		* *
Q 7	FET	P 1087 E		* *
Q 8	FET	P 1087 E		* *
Q 9	FET	P 1087 E		* *
Q 10	FET	2 N 5462		* *
Q 11	FET	2 N 5462		* *
R 1	Resistor	carbon film	470 k	* *
R 2	Resistor	metal film	47 k – 2% –0,33 W	* *
R 3	Resistor	carbon film	68	* *
R 4	Resistor	carbon film	68	* *
R 5	Resistor	carbon film	33 k	* *
R 6	Resistor	carbon film	33 k	* *
R 7	Resistor	carbon film	33 k	* *
R 8	Resistor	carbon film	3,3 k	* *
R 9	Resistor	carbon film	15 k	* *
R 10	Resistor	carbon film	56 k	* *
R 11	Resistor	carbon film	3,3 k	* *
R 12	Resistor	carbon film	56 k	* *
R 13	Resistor	metal film	5,1 k – 1% –0,33 W	* *
R 14	Resistor	carbon film	1 k	* *
R 15	Resistor	carbon film	180 k	* *
R 16	Resistor	carbon film	180 k	* *
R 17	Resistor	carbon film	180 k	* *
R 18	Resistor	carbon film	180 k	* *
R 19	Resistor	carbon film	1 k – 5% –0,33 W	* *
R 20	Resistor	carbon film	1 k	* *
R 21	Resistor	metal film	3,24 k – 1% –0,33 W	57.39.3241
R 22	Resistor	carbon film	330	* *
R 23	Resistor	metal film	3,24 k – 1% –0,33 W	57.39.3241
R 24	Resistor	carbon film	330	* *
R 25	Resistor	carbon film	1,5 k	* *
R 26	Resistor	carbon film	3,3 k	* *

			Unspezified carbon film resistors: 1/8 W – 5%	* * Commercial types
IDENTIFI-CATION	PART NAME	TYPE / REMARKS	SPECIFICATIONS	ORDER NUMBER
R 27	Resistor	carbon film	2,2 k	* *
R 28	Resistor	carbon film	15 k	* *
R 30	Resistor	carbon film	4,7 k	* *
R 31	Resistor	carbon film	68 k	* *
R 32	Resistor	carbon film	2,2 k	* *
R 33	Resistor	carbon film	220	* *
R 34	Resistor	carbon film	3,3 k	* *
R 35	Resistor	carbon film	100 k	* *
R 36	Resistor	carbon film	150	* *
R 37	Resistor	metal film	3,24 k – 1% –0,33 W	57.39.3241
R 38	Resistor	carbon film	180	* *
R 39	Resistor	metal film	3,24 k – 1% –0,33 W	57.39.3241
R 40	Resistor	carbon film	1,5 k	* *
R 41	Resistor	carbon film	3,3 k	* *
R 42	Resistor	carbon film	5,6 k	* *
R 43	Resistor	carbon film	15 k	* *
R 45	Resistor	carbon film	4,7 k	* *
R 46	Resistor	carbon film	68 k	* *
R 47	Resistor	carbon film	2,2 k	* *
R 48	Resistor	carbon film	220	* *
R 49	Resistor	carbon film	3,3 k	* *
R 50	Resistor	carbon film	100 k	* *
R 51	Resistor	carbon film	100 k	* *
R 52	Resistor	carbon film	1 M	* *
R 53	Resistor	carbon film	33 k	* *
R 54	Resistor	carbon film	33 k	* *
R 55	Resistor	carbon film	1 M	* *



	FIRST	LAST	MISSING
C	1	43	28 / 29
HC	1	4	—
L	1	4	—
Q	1	8	—
R	1	50	29 / 44

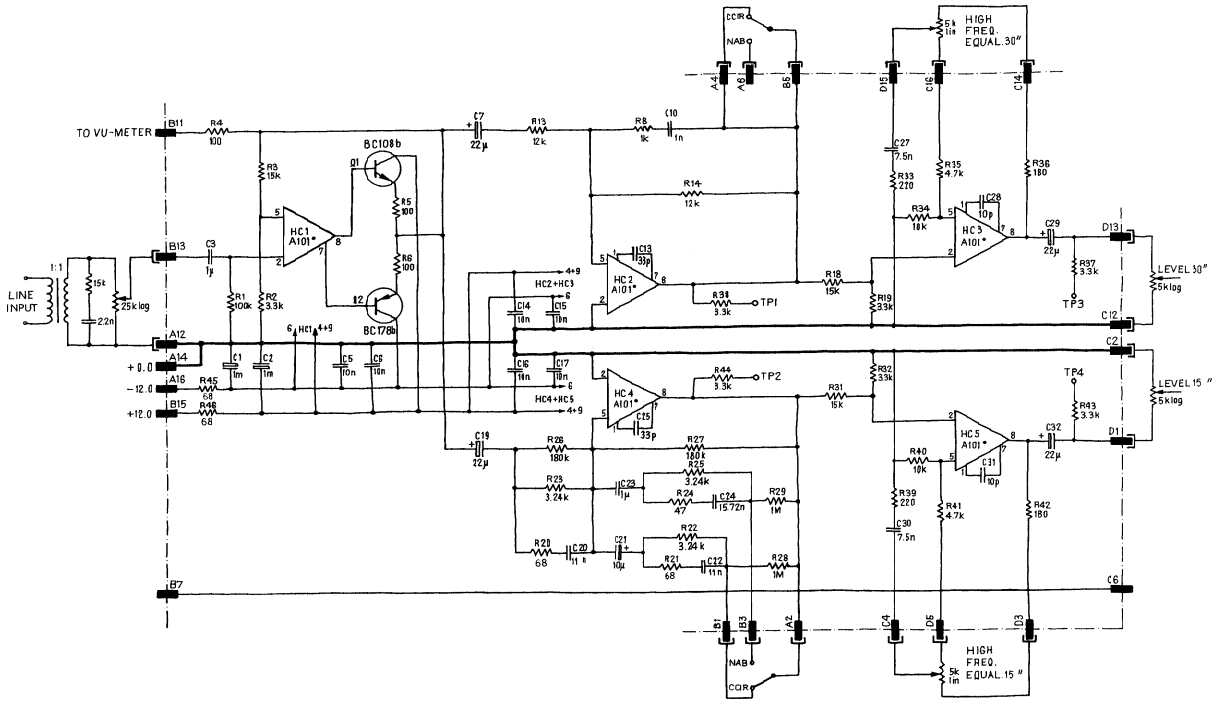
REPRODUCE PREAMPLIFIER 15/30 ips GR 51 EL 5
PC CARD 1.080.895


15 14 13 12 11 10 9 7 6 5 4 3 2 1
16 14 12 10 9 8 6 4 2
C 1
L 4
R 1
C 42
C 43
C 3
Q 1
Q 2
Q 3
Q 4
Q 5
C 29
L 3
R 6
R 7
R 8
R 10
R 9
R 11
R 2
R 5
R 12
Q 6
R 20
R 16
R 18
R 17
R 15
R 14
C 14
C 15
C 13
R 19
L 2
L 1
C 12
R 13
C 10
C 11
C 18
C 17
C 16
C 30
C 31
C 33
C 19
C 32
R 21
R 22
R 23
R 24
R 39
R 38
R 37
R 36
C 4
C 5
C 20
HC 1
R 4
R 3
C 34
HC 3
R 25
R 26
R 35
R 50
R 41
R 40
Q 7
Q 8
C 7
C 9
C 6
C 8
C 21
R 27
R 28
C 22
R 30
R 45
C 36
C 35
R 43
R 42
C 23
C 37
C 25
R 33
C 24
C 38
R 48
C 39
C 27
C 41
HC 2
R 34
R 31
C 26
R 46
C 40
R 49
HC 4
R 32
R 47

			Unspezified carbon film resistors: 1/8 W – 5%	* * Commercial types
IDENTIFICATION	PART NAME	TYPE / REMARKS	SPECIFICATIONS	ORDER NUMBER
	Reproduce Preamplifier 15/30 ips	Board assembled		1.080.895
C 1	Capacitor	tantalum	330 µ F – 20% – 6,3 V	* *
C 2	Capacitor	ceramic	33 p F – 10% – 500 V	* *
C 3	Capacitor	ceramic	33 p F – 10% – 500 V	* *
C 4	Capacitor	elektrolytic	1000 µ F – 50% – 18 V	* *
C 5	Capacitor	elektrolytic	1000 µ F – 50% – 18 V	* *
C 6	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 7	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 8	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 9	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 10	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 11	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 12	Capacitor	polystyrol	2 n F – 1% – 125 V	* *
C 13	Capacitor	polystyrol	3 n F – 1% – 125 V	* *
C 14	Capacitor	polystyrol	560 p F – 1% – 63 V	* *
C 15	Capacitor	polystyrol	3,9 n F – 1% – 63 V	* *
C 16	Capacitor	tantalum	22 µ F – 20% – 6,3 V	* *
C 17	Capacitor	tantalum	22 µ F – 20% – 6,3 V	* *
C 18	Capacitor	polystyrol	5500 p F – 1,2% – 63 V	* *
C 19	Capacitor	polystyrol	5500 p F – 1,2% – 63 V	* *
C 20	Capacitor	ceramic	10 p F – 20% – 500 V	* *
C 21	Capacitor	polycarbonat	68 n F – 10% – 160 V	* *
C 22	Capacitor	tantalum	22 µ F – 20% – 6,3 V	* *
C 23	Capacitor	polycarbonat	150 n F – 2% – 63 V	* *
C 24	Capacitor	polycarbonat	150 n F – 2% – 63 V	* *
C 25	Capacitor	ceramic	10 p F – 20% – 500 V	* *
C 26	Capacitor	polystyrol	3,3 n F – 10% – 63 V	* *
C 27	Capacitor	polycarbonat	10 n F – 5% – 250 V	* *
C 30	Capacitor	polycarbonat	1 µ F – 2% – 63 V	* *
C 31	Capacitor	tantalum	22 µ F – 20% – 6,3 V	* *
C 32	Capacitor	polystyrol	15,8 n F – 1,2% – 63 V	59.99.0307
C 33	Capacitor	polystyrol	11 n F – 1% – 63 V	* *
C 34	Capacitor	ceramic	10 p F – 20% – 500 V	* *
C 35	Capacitor	polycarbonat	0,1 µ F – 10% – 100 V	* *
C 36	Capacitor	tantalum	22 µ F – 20% – 6,3 V	* *
C 37	Capacitor	polycarbonat	150 n F – 2% – 63 V	* *
C 38	Capacitor	polycarbonat	150 n F – 2% – 63 V	* *
C 39	Capacitor	ceramic	10 p F – 20% – 500 V	* *
C 40	Capacitor	polystyrol	3,3 n F – 10% – 63 V	* *
C 41	Capacitor	polycarbonat	10 n F – 5% – 250 V	* *
C 42	Capacitor	ceramic	68 p F – 10% – 500 V	* *
C 43	Capacitor	ceramic	68 p F – 10% – 500 V	* *
HC 1	Hybrid Circuit	A 101	4 dB	1.010.101.50
HC 2	Hybrid Circuit	A 101 (wht)	6 dB	1.010.102.50

			Unspezified carbon film resistors: 1/8 W – 5%	* * Commercial types
IDENTIFI-CATION	PART NAME	TYPE / REMARKS	SPECIFICATIONS	ORDER NUMBER
HC 3	Hybrid Circuit	A 101	4 dB	1.010.101.50
HC 4	Hybrid Circuit	A 101 (wht)	6 dB	1.010.102.50
L 1	Choke Coil		1,86 m H – 3%	1.022.108.00
L 2	Choke Coil		7,44 m H – 3%	1.022.106.00
L 3	Choke Coil	wideband		62.01.0115
L 4	Choke Coil	wideband		62.01.0115
Q 1	Transistor	BC 179 B		* *
Q 2	Transistor	BC 179 B		* *
Q 3	Transistor	BC 109 C		* *
Q 4	Transistor	BC 109 C		* *
Q 5	Transistor	BC 109 C		* *
Q 6	Transistor	BC 140 – 16		* *
Q 7	FET	2 N 5639		* *
Q 8	FET	2 N 5639		* *
R 1	Resistor	carbon film	470 k	* *
R 2	Resistor	metal film	47 k – 2% –0,33 W	* *
R 3	Resistor	carbon film	68	* *
R 4	Resistor	carbon film	68	* *
R 5	Resistor	carbon film	33 k	* *
R 6	Resistor	carbon film	33 k	* *
R 7	Resistor	carbon film	33 k	* *
R 8	Resistor	carbon film	3,3 k	* *
R 9	Resistor	carbon film	15 k	* *
R 10	Resistor	carbon film	56 k	* *
R 11	Resistor	carbon film	3,3 k	* *
R 12	Resistor	carbon film	56 k	* *
R 13	Resistor	metal film	1,33 k – 1% –0,33 W	57.39.1331
R 14	Resistor	carbon film	1 k	* *
R 15	Resistor	carbon film	180 k	* *
R 16	Resistor	carbon film	180 k	* *
R 17	Resistor	carbon film	180 k	* *
R 18	Resistor	carbon film	180 k	* *
R 19	Resistor	carbon film	1 k – 5% –0,33 W	* *
R 20	Resistor	carbon film	1 k	* *
R 21	Resistor	metal film	3,24 k – 1% –0,33 W	57.39.3241
R 22	Resistor	carbon film	330	* *
R 23	Resistor	metal film	3,24 k – 1% –0,33 W	57.39.3241
R 24	Resistor	carbon film	330	* *
R 25	Resistor	carbon film	1,5 k	* *
R 26	Resistor	carbon film	3,3 k	* *
R 27	Resistor	carbon film	3,3 k	* *
R 28	Resistor	carbon film	15 k	* *
R 30	Resistor	carbon film	4,7 k	* *
R 31	Resistor	carbon film	470	* *
R 32	Resistor	carbon film	2,2 k	* *
R 33	Resistor	carbon film	220	* *

			Unspezified carbon film resistors: 1/8 W – 5%	* * Commercial types
IDENTIFI-CATION	PART NAME	TYPE / REMARKS	SPECIFICATIONS	ORDER NUMBER
R 34	Resistor	carbon film	3,3 k	* *
R 35	Resistor	carbon film	100 k	* *
R 36	Resistor	carbon film	150	* *
R 37	Resistor	metal film	3,24 k – 1% –0,33 W	57.39.3241
R 38	Resistor	carbon film	180	* *
R 39	Resistor	metal film	3,24 k – 1% –0,33 W	57.39.3241
R 40	Resistor	carbon film	1,5 k	* *
R 41	Resistor	carbon film	3,3 k	* *
R 42	Resistor	carbon film	5,6 k	* *
R 43	Resistor	carbon film	15 k	* *
R 45	Resistor	carbon film	4,7 k	* *
R 46	Resistor	carbon film	470	* *
R 47	Resistor	carbon film	2,2 k	* *
R 48	Resistor	carbon film	220	* *
R 49	Resistor	carbon film	3,3 k	* *
R 50	Resistor	carbon film	100 k	* *



	FIRST	LAST	MISSING
C	1	33	4, 8 – 12, 18, 26
HC	1	5	–
Q	1	2	–
R	1	46	7, 9 – 12, 15, 16, 17, 30

RECORD PREAMPLIFIER 15/30 ips **GR 51 EL 2**
PC CARD **1.080.896**

15 13 11 9 7 5 3 1
R 1
C 3
HC 1
C 5
C 6
R 2
R 3
R 45
R 46
Q 2
R 6
R 5
Q 1
R 4
R 13
C 7
C 33
R 8
C 19
R 29
R 28
C 24
R 24
R 25
C 23
C 22
R 21
R 22
C 21
R 26
R 23
R 20
C 20
C 2
C 1
C 13
HC 2
R 14
R 38
R 44
C 25
R 27
HC 4
R 31
R 32
C 15
C 14
C 17
C 16
R 18
R 19
R 34
C 28
HC 3
R 33
R 35
R 36
C 29
C 27
R 37
R 40
C 31
HC 5
R 39
R 41
R 42
C 30
R 43
C 32
16 14 12 10 8 6 4 2

			Unspezified carbon film resistors: 1/8 W – 5%	* * Commercial types
IDENTIFICATION	**PART NAME**	**TYPE / REMARKS**	**SPECIFICATIONS**	**ORDER NUMBER**
	Record Preamplifier 15/30 ips	Board assembled		1.080.896
C 1	Capacitor	elektrolytic	1000 µ F – 50% – 18 V	* *
C 2	Capacitor	elektrolytic	1000 µ F – 50% – 18 V	* *
C 3	Capacitor	polycarbonat	1 µ F – 10% – 63 V	* *
C 5	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 6	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 7	Capacitor	tantalum	22 µ F – 20% – 6,3 V	* *
C 13	Capacitor	ceramic	33 p F – 10% – 500 V	* *
C 14	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 15	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 16	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 17	Capacitor	polycarbonat	10 n F – 10% – 250 V	* *
C 19	Capacitor	tantalum	22 µ F – 20% – 6,3 V	* *
C 20	Capacitor	polystyrol	11 n F – 1% – 63 V	* *
C 21	Capacitor	tantalum	10 µ F – 20% – 16 V	* *
C 22	Capacitor	polystyrol	11 n F – 1% – 63 V	* *
C 23	Capacitor	polycarbonat	1 µ F – 2% – 63 V	* *
C 24	Capacitor	polystyrol	15,8 n F – 1,2% – 63 V	59.99.0307
C 25	Capacitor	ceramic	33 p F – 10% – 500 V	* *
C 27	Capacitor	polystyrol	7,5 n F – 1% – 125 V	* *
C 28	Capacitor	ceramic	10 p F – 20% – 500 V	* *
C 29	Capacitor	tantalum	22 µ F – 20% – 6,3 V	* *
C 30	Capacitor	polystyrol	7,5 n F – 1% – 125 V	* *
C 31	Capacitor	ceramic	10 p F – 20% – 500 V	* *
C 32	Capacitor	tantalum	22 µ F – 20% – 6,3 V	* *
C 33	Capacitor	polystyrol	1 n F – 1% – 500 V	* *
HC 1	Hybrid Circuit	A 101 (wht)	6 dB	1.010.102.50
HC 2	Hybrid Circuit	A 101 (wht)	6 dB	1.010.102.50
HC 3	Hybrid Circuit	A 101 (wht)	6 dB	1.010.102.50
HC 4	Hybrid Circuit	A 101 (wht)	6 dB	1.010.102.50
HC 5	Hybrid Circuit	A 101 (wht)	6 dB	1.010.102.50
Q 1	Transistor	BC 108 B		* *
Q 2	Transistor	BC 178 B		* *
R 1	Resistor	carbon film	100 k	* *
R 2	Resistor	carbon film	3,3 k	* *
R 3	Resistor	carbon film	15 k	* *
R 4	Resistor	carbon film	100	* *
R 5	Resistor	carbon film	100	* *
R 6	Resistor	carbon film	100	* *
R 8	Resistor	carbon film	1 k	* *
R 13	Resistor	carbon film	12 k	* *
R 14	Resistor	carbon film	12 k	* *