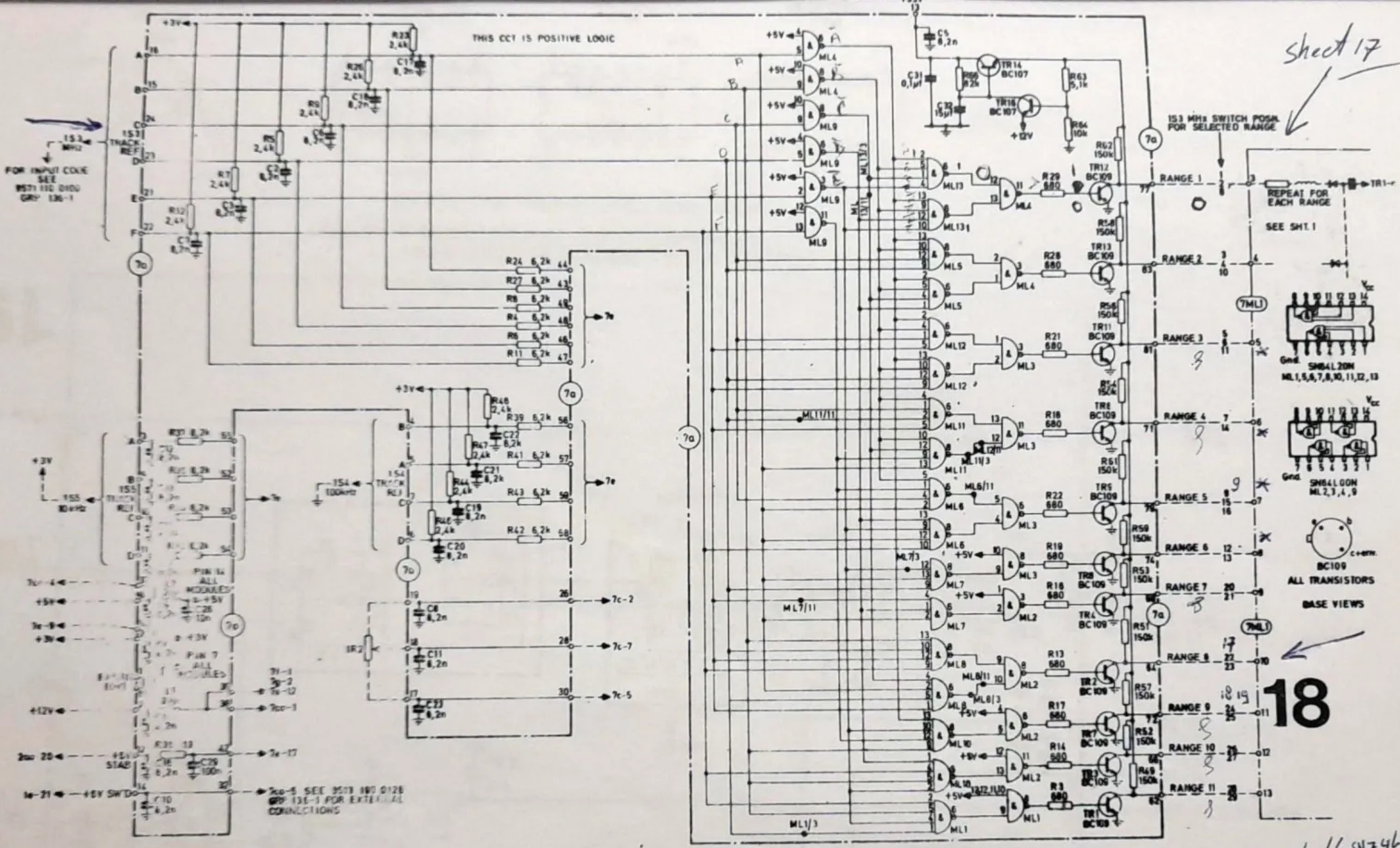
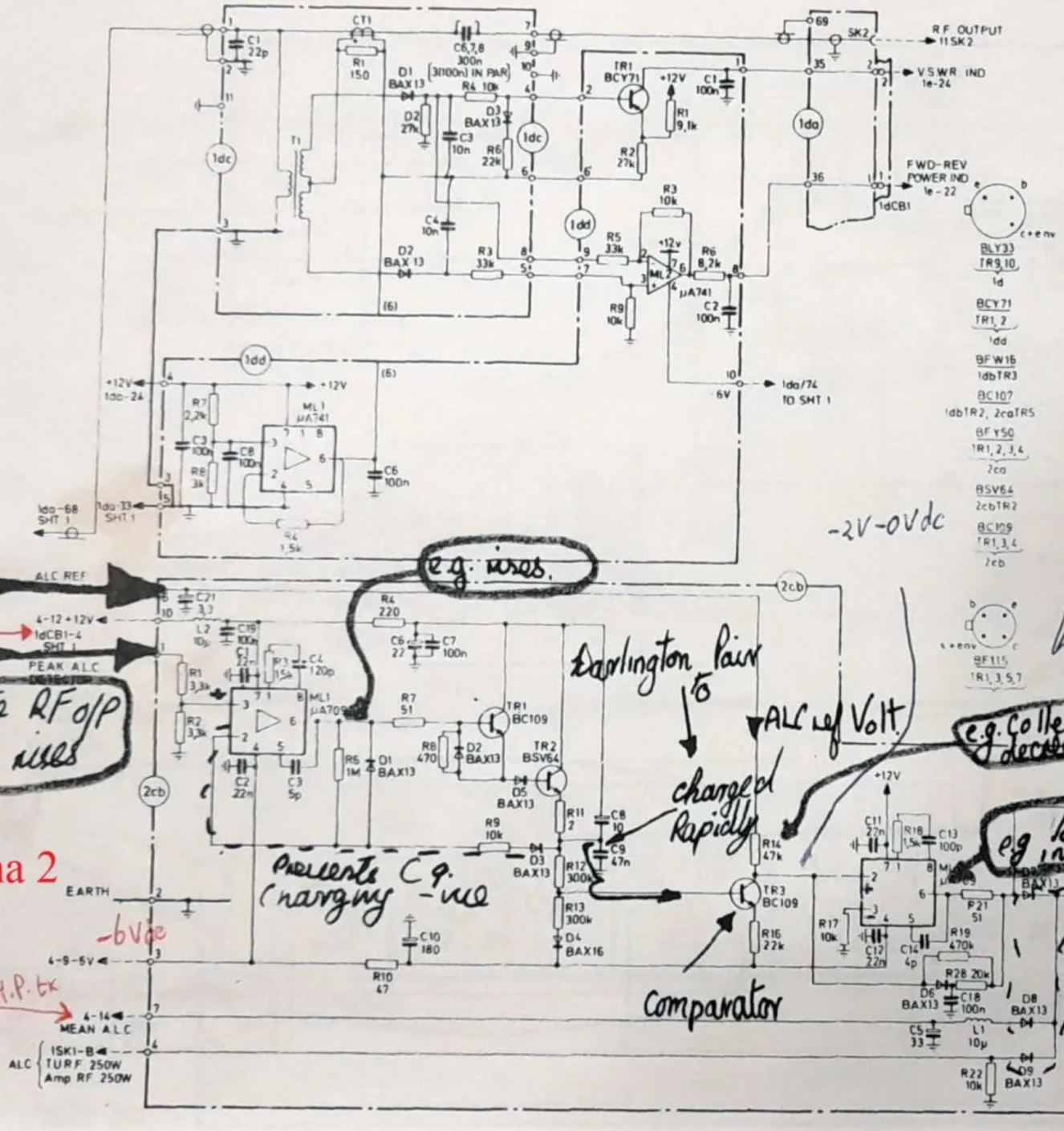


Schema 1

ML5 ML 12/11/6 SN74L20N
ML8
ML2 SN7400N
ML9 SN7400N ML3
ML4

CN515T ↔ µA709 = LM709
equivalent
LM741A/LM741C/MC1439
LM748
µA741



Amp meter in series

Limits Current Biasing for TR6 on PA board

Mounted on PA, TR6

100 mA

50 mA

.7V

200 - 320 mA

Total current between bias setting potentiometers

I = 50mA

100 mA

PA BIAS CONTRL (THERMALLY COMPENSATED)

POWER AMPLIFIER SHT 1

HEAT SENSOR MOUNTED ON 1dTR2 (SHT 1)

HEAT SENSOR MOUNTED ON 1dTR5 (SHT 1)

HEAT SENSOR MOUNTED ON 1dTR4 (SHT 1)

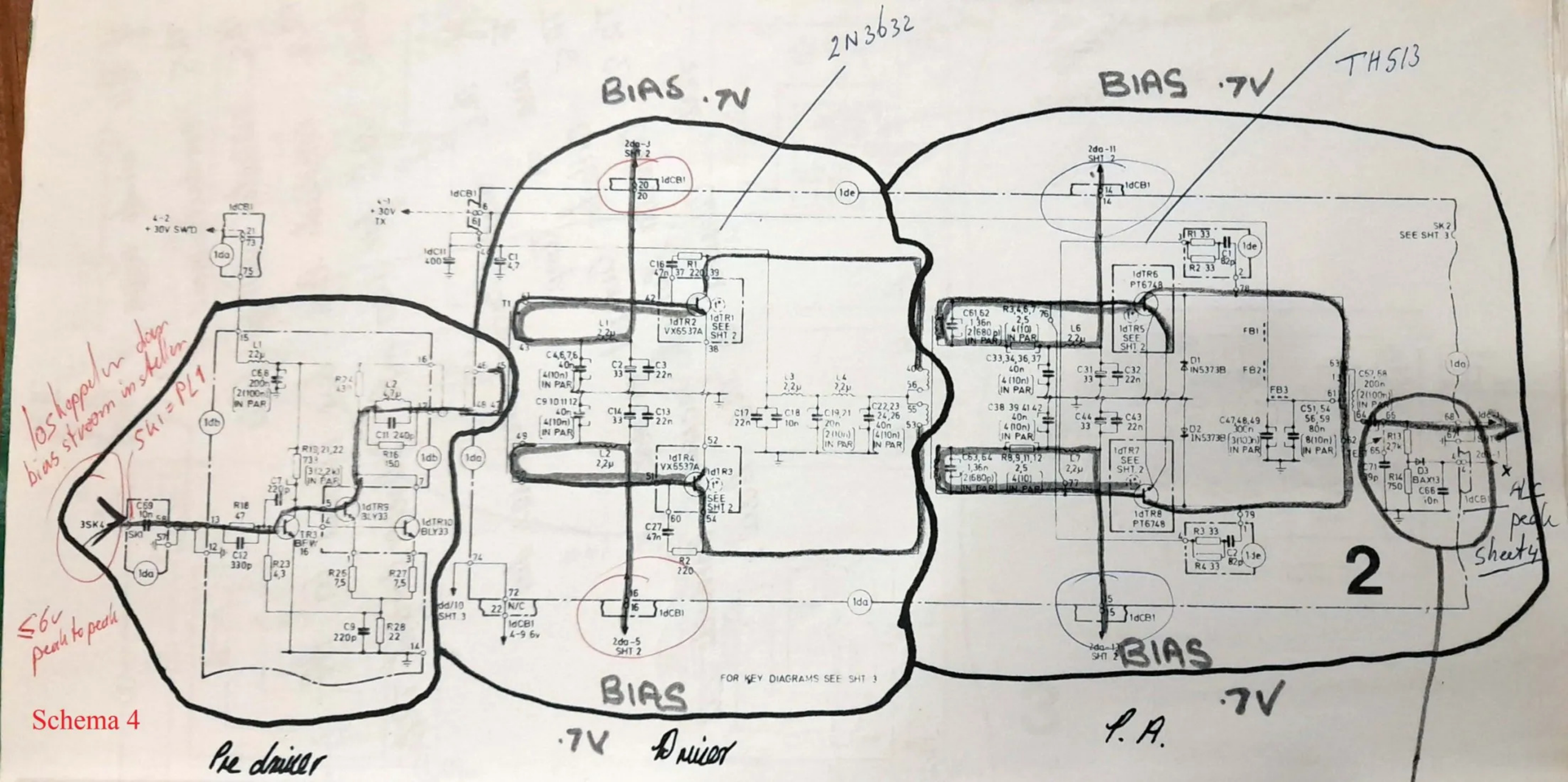
HEAT SENSOR MOUNTED ON 1dTR8 (SHT 1)

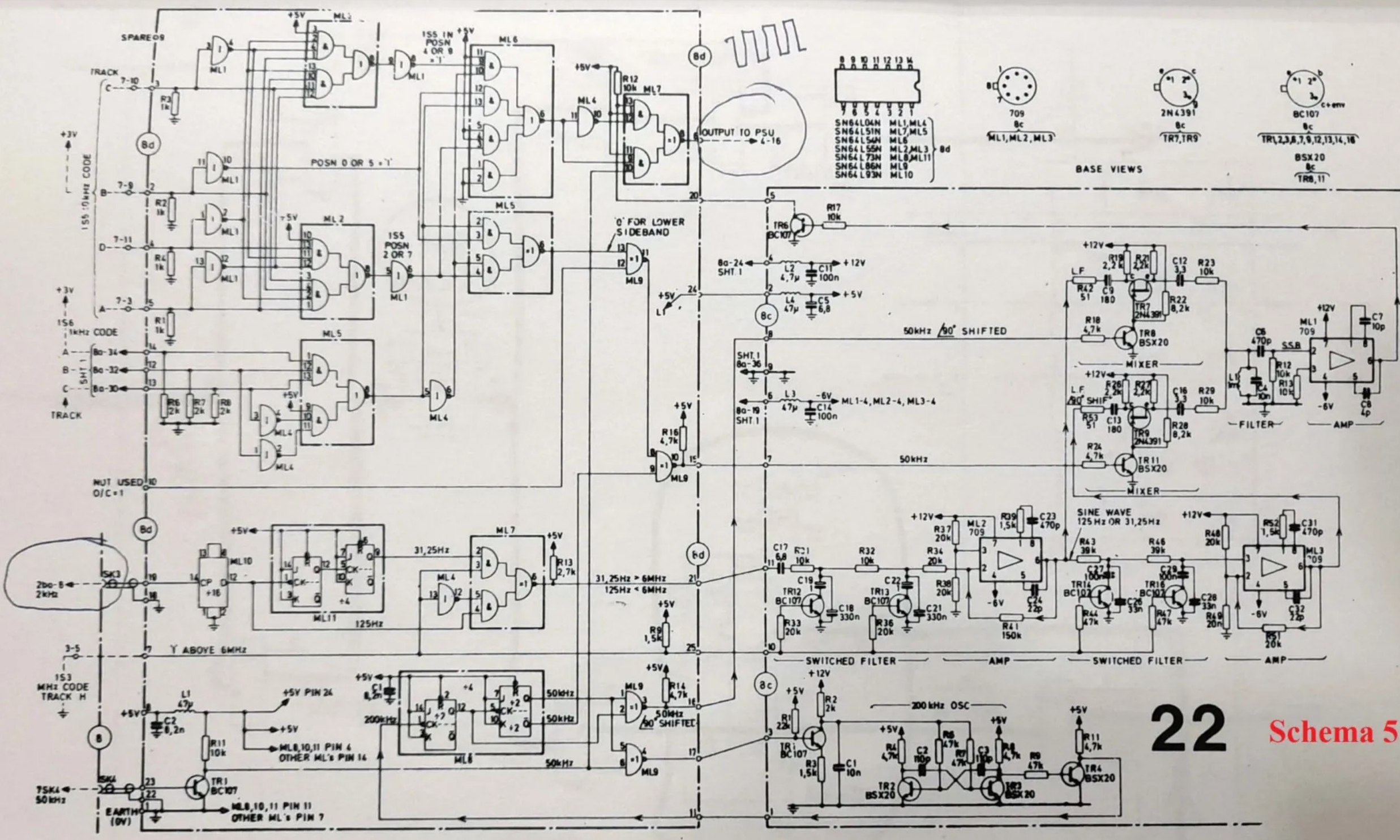
THERMAL A.L.C

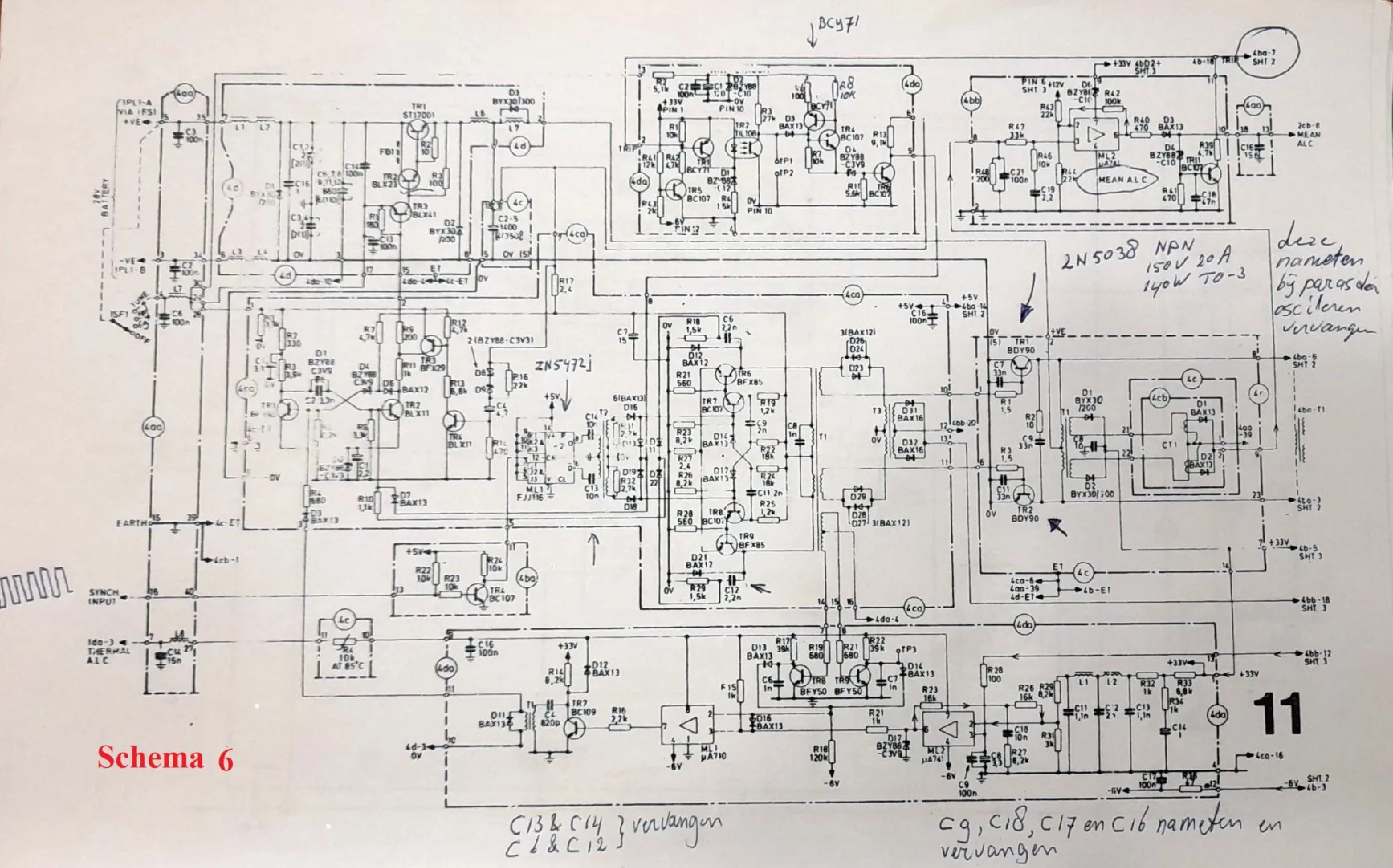
FOR KEY DIAGRAMS SEE SHT 3

3

Schema 3


2N3632
BIAS .7V
BIAS .7V
TH513
4-2 +30V SWTD
4-1 +30V TX
1dCB1
1da
1db
1dc
1de
2da-3 SHT 2
2da-5 SHT 2
2da-11 SHT 2
2da-13 SHT 2
1dTR1 SEE SHT 2
1dTR2 VX6537A
1dTR3 SEE SHT 2
1dTR4 VX6537A
1dTR5 BLY33
1dTR6 PT6748
1dTR7 SEE SHT 2
1dTR8 PT6748
1dTR10 BLY33
TR3 BFW 16
D1 IN5373B
D2 IN5373B
D3 BAX13
FB1
FB2
FB3
SK2 SEE SHT 3
3SK4
FOR KEY DIAGRAMS SEE SHT 3
BIAS .7V
BIAS .7V
2
Schema 4
Pre driver
Driver
P.A.


SPARE 09
TRACK
7-10
7-9
7-11
7-3
1S5 10kHz CODE
1S6 1kHz CODE
TRACK
+3V
+5V
R1 1k
R2 1k
R3 1k
R4 1k
R16 2k
R7 2k
R8 2k
SHT 1
8a-34
8a-32
8a-30
ML1
ML2
ML3
ML4
ML5
ML6
ML7
ML8
ML9
ML10
ML11
1S5 IN POSN 4 OR 9 = '1'
POSN 0 OR 5 = '1'
1S5 POSN 2 OR 7
'0' FOR LOWER SIDEBAND
OUTPUT TO PSU 4-16
R12 10k
R17 10k
TR6 BC107
8a-24 SHT 1
L2 4,7µ
C11 100n
L4 47µ
C5 6,8
+12V
50kHz 90° SHIFTED
SHT 1 8a-36
8a-19 SHT 1
L3 47µ
-6V
C14 100n
ML1-4, ML2-4, ML3-4
R16 4,7k
50kHz
MIXER
R18 4,7k
TR8 BSX20
R19 2,2k
R21 2,2k
C12 3,3
R23 10k
R22 8,2k
LF
R42 51
C9 180
C6 470p
SSB
R12 10k
R13 10k
C7 10p
C8 4p
FILTER
AMP
-6V
R27 2,2k
R26 2,2k
C16 3,3
R29 10k
R53 51
C13 180
R28 8,2k
TR9 2N4391
R24 4,7k
TR11 BSX20
SINE WAVE 125Hz OR 31,25Hz
R43 39k
R46 39k
R48 20k
R52 1,5k
C31 470p
C27 100n
C29 100n
C26 33n
C28 33n
R44 47k
R47 47k
R49 20n
R51 20k
C32 22p
TR14 BC107
TR16 BC107
SWITCHED FILTER
AMP
SWITCHED FILTER
AMP
R37 20k
R34 20k
R39 1,5k
C23 470p
R38 20k
R41 150k
C24 22p
C17 6,8
R31 10k
R32 10k
C19 1
C18 330n
C22
C21 330n
TR12 BC107
TR13 BC107
R33 20k
R36 20k
31,25Hz
125Hz
31,25Hz > 6MHz
125Hz < 6MHz
R13 2,7k
R9 1,5k
R14 4,7k
50kHz SHIFTED
Y ABOVE 6MHz
1S3 MHz CODE TRACK H
200kHz
C1 8,2n
C2 8,2n
L1 47µ
+5V PIN 24
ML8,10,11 PIN 4
OTHER ML's PIN 14
R11 10k
TR1 BC107
ML8,10,11 PIN 11
OTHER ML's PIN 7
EARTH (0V)
7SK4 50kHz
1SK3 2kHz
NOT USED O/C = 1
200kHz OSC
R2 2k
R1 22k
R3 1,5k
C1 10n
TR3 BC107
TR2 BSX20
TR4 BSX20
R4 4,7k
C2 110p
R7 4,7k
C3 110p
R8 4,7k
R9 47k
R11 4,7k
SN64L04N ML1,ML4
SN64L51N ML7,ML5
SN64L54N ML6
SN64L55N ML2,ML3
SN64L73N ML8,ML11
SN64L86N ML9
SN64L93N ML10
8d
709 8c ML1,ML2,ML3
2N4391 8c TR7,TR9
BC107 8c TR1,2,3,5,7,9,12,13,14,16
BSX20 8c TR8,11
BASE VIEWS


BCY71
ZN5472j
2N5038 NPN
150V 20A
140W TO-3
deze nameten bij paras dan osciliren vervangen
C13 & C14
C6 & C12 } vervangen
C9, C18, C17 en C16 nameten en vervangen
28V BATTERY
EARTH
SYNCH INPUT
THERMAL ALC
MEAN ALC
11

Schema 6