

SPECIFICATIONS [K, W type]

GENERAL

Semiconductors:	Transistors: 48 (K), 47 (W) FETs: 9 ICs: 17 Diodes: 88 (K), 77 (W)
Frequency Range:	144.00 to 147.995 MHz (K), 144.00 to 145.995 MHz (W)
Frequency Synthesizer:	Digital control of phase locked VCO
Synthesizer Stability:	Better than ± 750 Hz at 25°C
Mode:	FM
No. of Channels:	800 (K), 400 (W)
Operating Temperature:	-20 to +50°C
Power Voltage:	11.5V DC to 16.0V DC (13.8V DC standard)
Grounding:	Negative grounding
Antenna Impedance:	50 Ω
DC Current:	Less than 0.5A in receive with no input signal Less than 6A in HI transmit (at 13.8V DC)
Dimensions:	161 mm (6-5/16") wide 61 mm (2-3/8") high 230 mm (9-1/16") deep
Weight:	1.75 kg (3.85 lbs) Approx.

TRANSMITTER SECTION

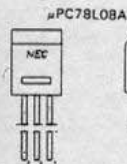
RF Output Power:	High: 25 watts (min.) Low: 5 watts approx. (adjustable to 25 watts)
Modulation:	Variable reactance direct shift
Max. Frequency Deviation:	± 5 kHz
Spurious Radiation:	Less than -60 dB
Touch Tone Input Impedance:	600 Ω
Microphone:	Dynamic microphone with PTT switch, 500 Ω

RECEIVER SECTION

Circuitry:	Double superheterodyne
Intermediate Frequency:	1st: IF 10.7 MHz 2nd: IF 455 kHz
Sensitivity:	Less than 0.4 μ V for 20 dB quieting (Less than 1 μ V for 30 dB S/N)
Squelch Sensitivity:	Less than 0.25 μ V
Pass Band Width:	Better than 12 kHz at 6 dB down
Selectivity (2 Signal):	Better than 76 dB at 30 kHz (K), 70 dB at 25 kHz (W) of adjacent channel
Image Rejection:	Better than 70 dB
Spurious Interference:	Better than 60 dB
Intermodulation:	Better than 66 dB (K), 60 dB (W)
Audio Output:	More than 1.5 watts across 3 Ω load (10% distortion)

NOTE: The circuit and ratings may change without notice due to developments in technology.

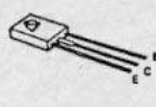
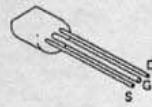
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 Postbus 4228
 5604 EE Eindhoven



- 1: INPUT
- 2: OUTPUT
- 3: GND

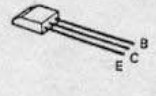
2SK30A(GR)

2SA496(Y)



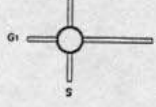
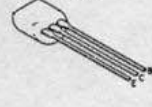
2SK19(GR)

2SC460(B)



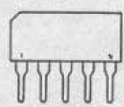
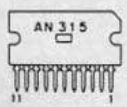
2SA1015(Y)
 2SC1345(E)
 2SC1815(Y)
 2SC1923(O)
 2SC1959(Y)
 2SC224(OGR)

3SK74(L)



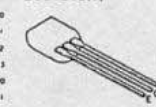
AN315

TA7060P



SM5111A

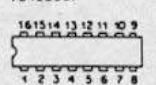
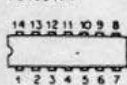
2SA1015(Y)
 2SC1815(Y)



FS-7806M

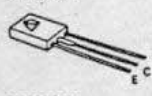
TC4081P.

TC5022BP
 TC4019BP
 TC4035BP



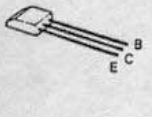
2SA496(Y)
 2SC496(Y)

2SK19(GR)



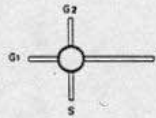
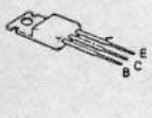
2SC458(B)
 2SC460(B)

2SA1015(Y)
 2SC1815(Y)
 2SC1959(Y)



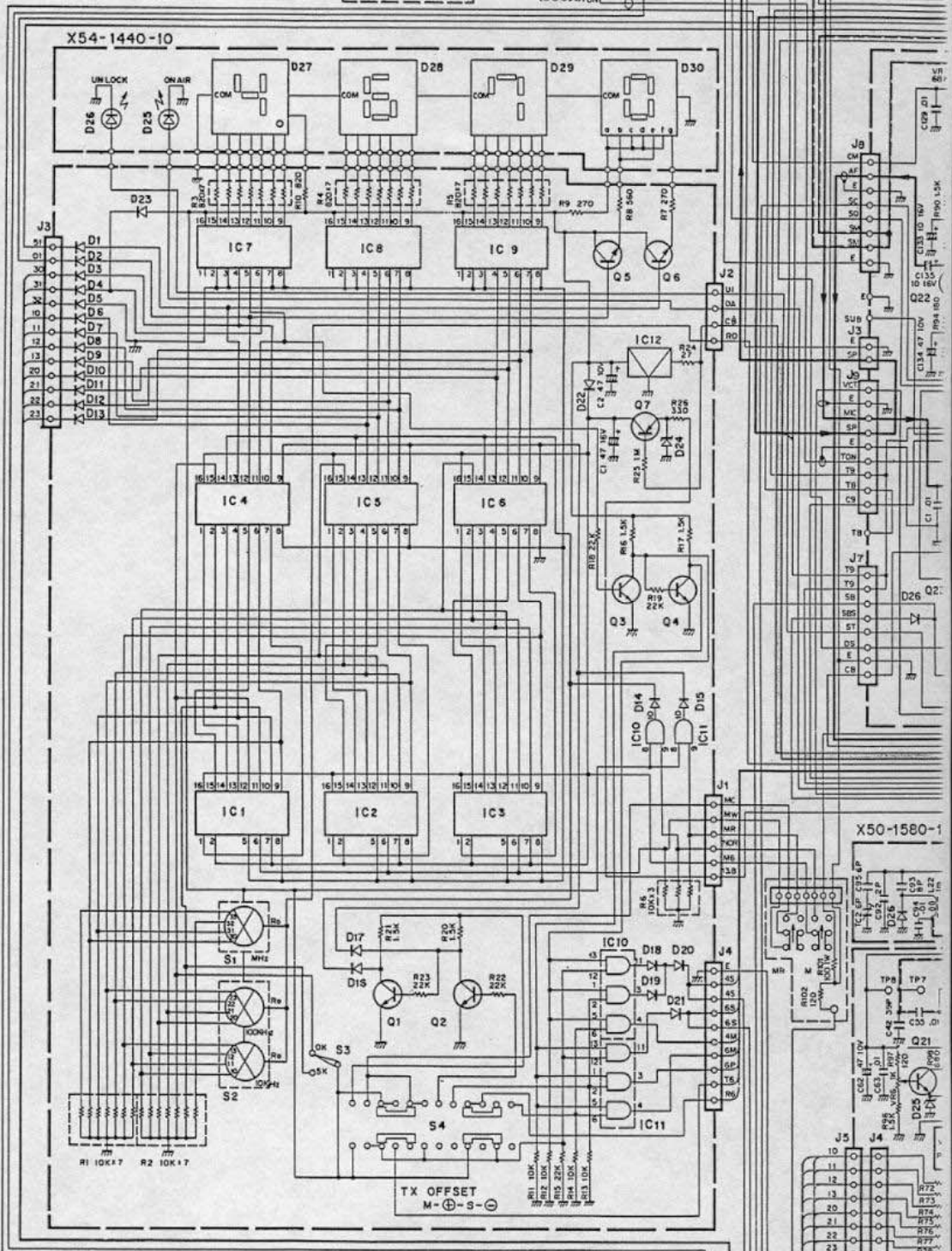
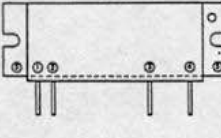
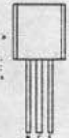
2SD235(Y)

3SK74(L)



2SC2538

M57712H



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|----------|---------------|--------------|--------------|
| IC1-3 | : TC4035BP | Q1-6 | : 2SC1815(Y) |
| IC4-6 | : TC4019BP | Q7 | : 2SA1015(Y) |
| IC7-9 | : TC5022BP | D1-13, 15-22 | : 1N60 |
| IC10, 11 | : TC4081P*3/4 | D23 | : 1S1555 |
| IC10, 11 | : TC4081P*1/4 | D24 | : WZ-150 |
| IC12 | : FS-7806M | D25 | : TLG-205 |
| | | D26 | : TLR-205 |
| | | D27-30 | : 5130K |

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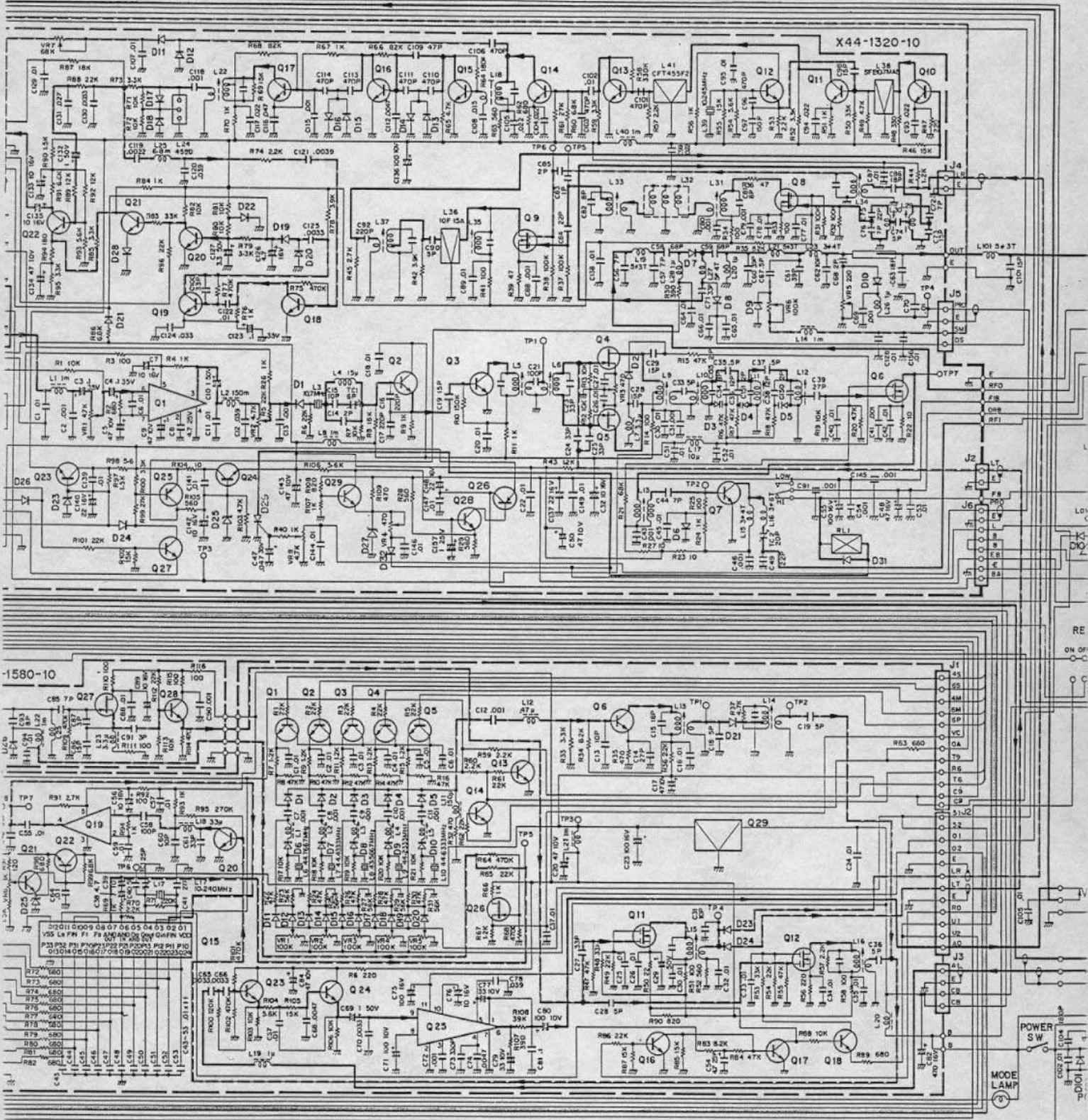
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K TYPE

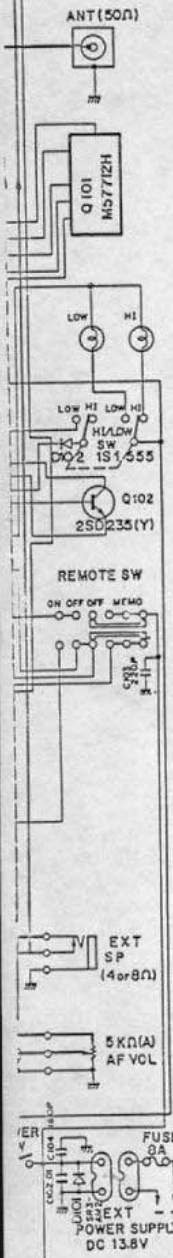
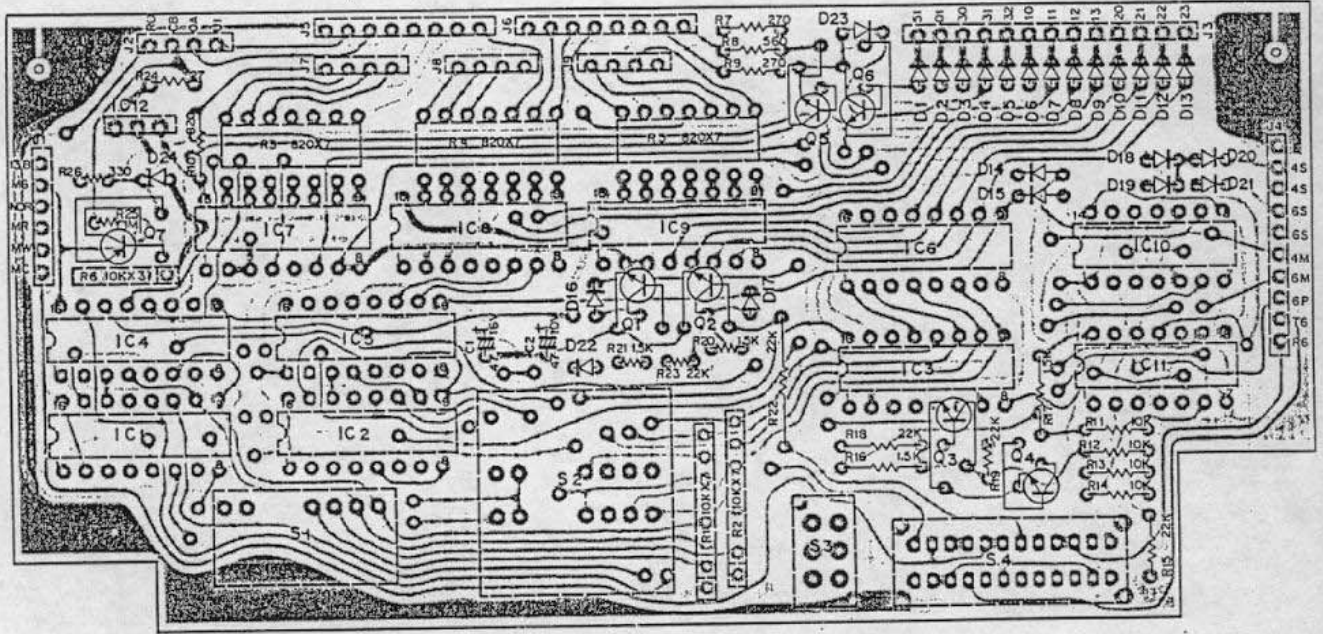
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Postbus 4228
5604 EE Eindhoven

- | | | | | | |
|---------------|------------------|--------------------|-----------------------------|--------|------------------|
| MIC CONNECTOR | Q1 : TA7061AP | Q18,22,28,29, | D1-5 : | :S2208 | D23 : XZ-086 |
| SUBTON SW | Q2,3,10-17 | :25C1815(Y) | D6,13,16,21,24,25,28,31,32: | :S1555 | D25 : WZ-100 |
| | Q4,5 : 25C460(B) | Q23,24 : 25C496(Y) | D7 : | :M1402 | D27 : XZ-064 |
| | Q6,8 : 35K74(L) | Q25 : 2SA1015(Y) | D8 : | :S2588 | D29 : CRO2AM-2-1 |
| | Q7 : 25C253B | Q26 : 2SA496(Y) | D9,11,12,17,18,19,20 | :N60 | D10 : S5S16 |
| | | | D22 : | :S1212 | |

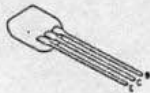


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|------------------|-------------------|----------------------|-----------------------|----------------|----------------|
| Q1-3,4,5 : | 13,14,16,18,21,22 | Q11,12 : 35K74 (L) | Q23,24 : 25C2240 (GR) | D1-5 : S2588 | D23-24 : S2588 |
| Q6 : 25C1815 (Y) | | Q15 : SM511A | Q25 : AN315 | D6-10 : S9V53A | D25 : WZ-040 |
| | | Q17 : 25C1345 (E) | Q26 : 25K30A (GR) | D11-20 : S1555 | D26 : S2208 |
| | | Q19 : TA7060P | Q27 : 25K19 (GR) | D21 : S5S16 | |
| | | Q20,28 : 25C1923 (O) | Q29 : μPC76LOBA | | |

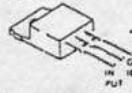
■ CONTROL UNIT (X54-1440-10)



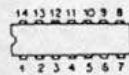
2SA1015(Y)
2SC1815(Y)



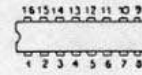
FS-7806M



TC4081P



TC5022BP
TC4019BP
TC4035BP

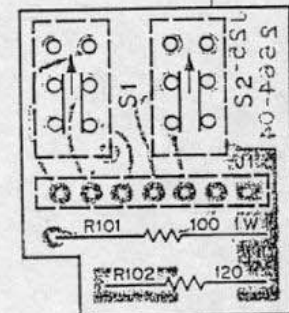
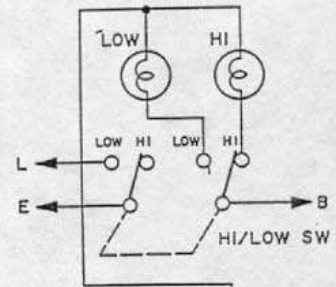
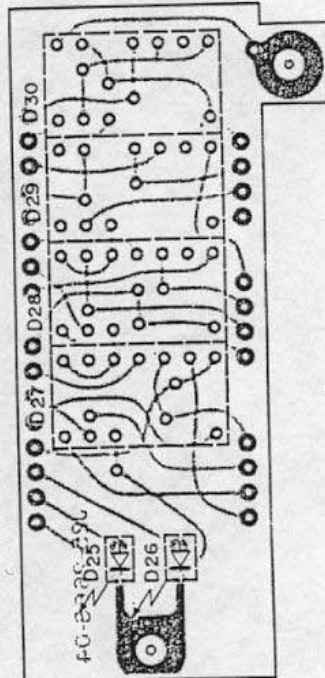


- IC1-3 : TC4035BP
- IC4-6 : TC4019BP
- IC7-9 : TC3022BP
- IC10,11 : TC4081P*3/4
- IC10,11 : TC4081P*1/4
- IC12 : FS-7806M
- Q1-6 : 2SC1815(Y)
- Q7 : 2SA1015(Y)
- D1-22 : 1N60
- D23 : 1S1555
- D24 : WZ-150
- D25 : TLG-205
- D26 : TLR-205
- D27-30 : 5130K

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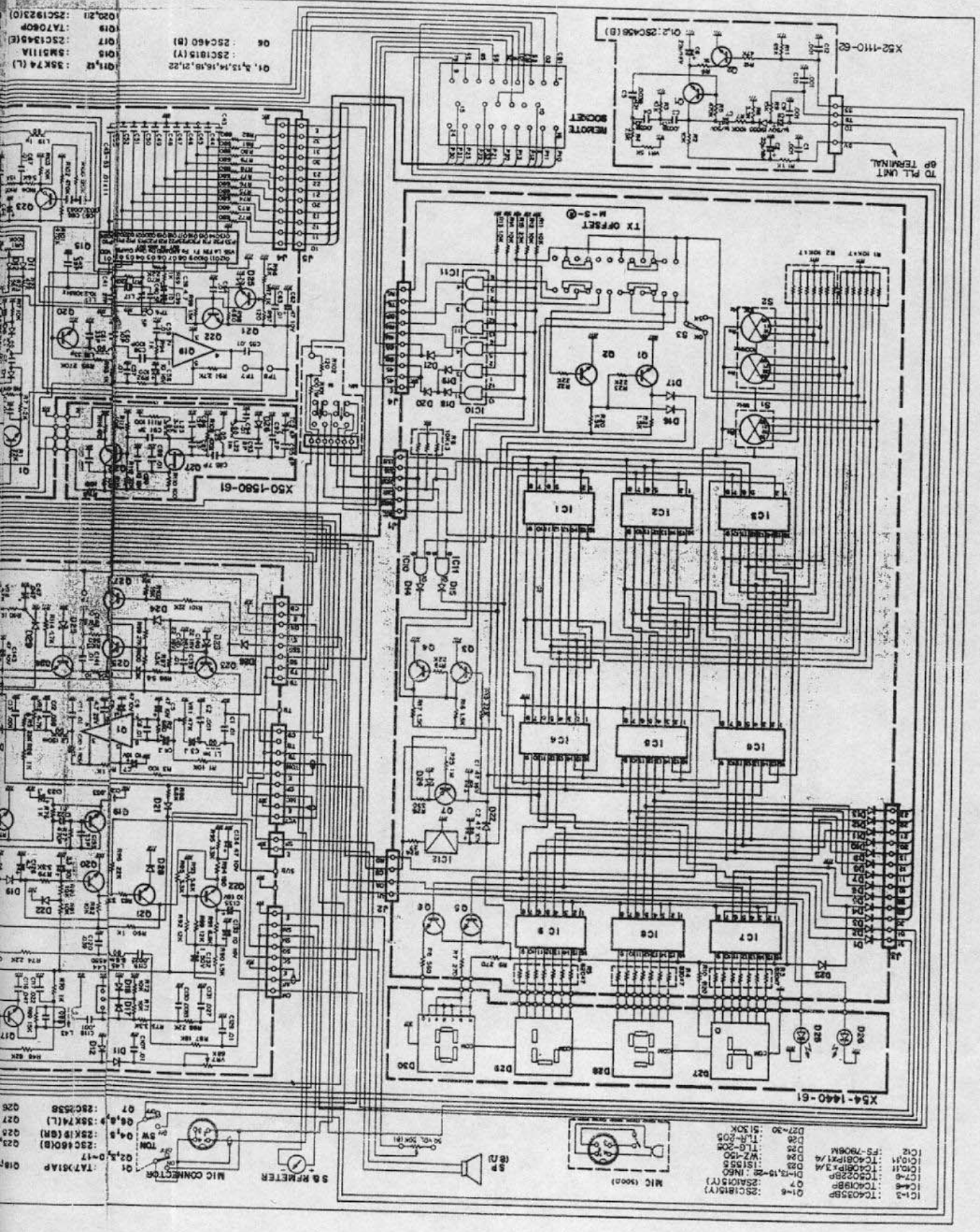
J25-2668-04 (Indicator)

J25-2664-04 (Switch)



2-METER FM-TRANSCEIVER "KENWOOD"

TR-7625 SCHEMATIC



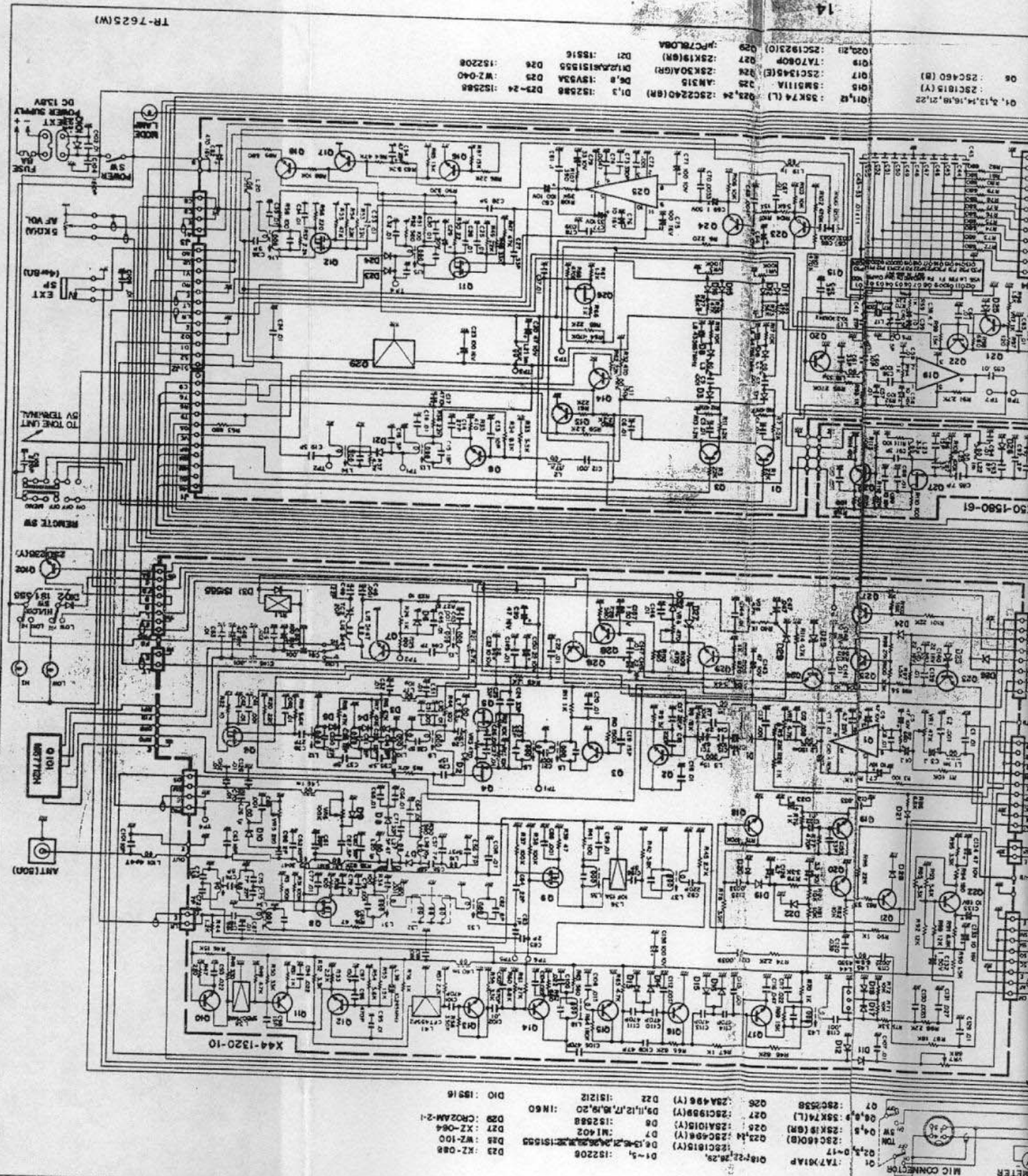
- IC1-3 : 74C03BP
- IC4 : 74C01
- IC5 : 74C02
- IC6 : 74C01
- IC7 : 74C02
- IC8 : 74C01
- IC9 : 74C02
- IC10 : 74C01
- IC11 : 74C01
- IC12 : 74C02
- D1-3 : 1N4001
- D4 : 1N4148
- D5 : 1N4148
- D6 : 1N4148
- D7 : 1N4148
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- D100 : 1N4148

- Q1 : 2N3858
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- Q98 : 2N3858
- Q99 : 2N3858
- Q100 : 2N3858

TR-7625 SCHEMATIC DIAGRAM

HANDLE WITH CARE

Circuits and specifications are subject to change for improvement.



- Q1 : T7701AP
- Q2 : 6X4
- Q3 : 6X4
- Q4 : 6X4
- Q5 : 6X4
- Q6 : 6X4
- Q7 : 6X4
- Q8 : 6X4
- Q9 : 6X4
- Q10 : 6X4
- D1 : 6X4
- D2 : 6X4
- D3 : 6X4
- D4 : 6X4
- D5 : 6X4
- D6 : 6X4
- D7 : 6X4
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- D9 : 6X4
- D10 : 6X4
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- R6 : 6X4
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- C98 : 6X4
- C99 : 6X4
- C100 : 6X4
- SW1 : 6X4
- SW2 : 6X4
- SW3 : 6X4
- SW4 : 6X4
- L1 : 6X4
- L2 : 6X4