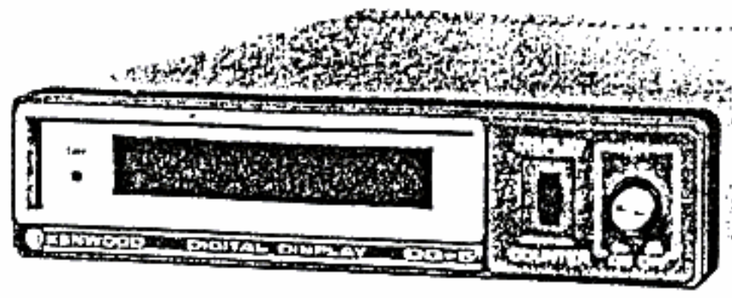


SPECIFICATIONS

Countable Digits	Six decimal digits.
Type	Light-emitting diode frequency display with hold memory.
DISPLAY (in combination with TS-520S)	
Frequency Range	All TS-520S transmit and receive channel frequencies as precise as 0.1 kHz digit.
Accuracy	Reference time ±0.2 count.
Input	TS-520S heteryodne local oscillator signal, VFO signal, and all carrier oscillator signals.
COUNTER	
Measurable Frequency Range	100 Hz to 40 MHz
Input Sensitivity	50 mV r.m.s. at 10 kHz to 10 MHz
(at Room Temperature)	200 mV r.m.s. at 100 Hz to 40 MHz
Absolute Max. Input	200V (DC + peak).
Level	5V r.m.s. (continuous at 100 Hz to 40 MHz).
Input Impedance	Approx. 5 kΩ, less than 22pF.
Accuracy	Reference time ±0.1 count.
Count Time	0.1 sec.
Least Significant Digit	0.1 kHz.
REFERENCE TIME	
Frequency	10 MHz
Error	Less than 1×10^{-5} (at room temperature).
Temperature Stability	Greater than 3×10^{-5} (at 0°C to +50°C).
Aging Rate	Lower than 1×10^{-6}/month (at room temperature).
GENERAL	
Ambient Temperature	−10°C to +50°C.
Power	Supplied from TS-520S.
External Power	12 to 16V, 0.9A DC (with 13.8V reference).
Dimensions	167mm (6-9/16") wide X 260 mm (10-1/64") [268mm (10-1/16"), max.] deep X (1-37/64") [43mm (1-11/16"), max.] high
Net Weight	1.27 kg (2.8 lbs.)
Semiconductors Used	42 ICs, 31 transistors, 19 diodes, 3 two-digit LEDs, and 1 LED indicator.

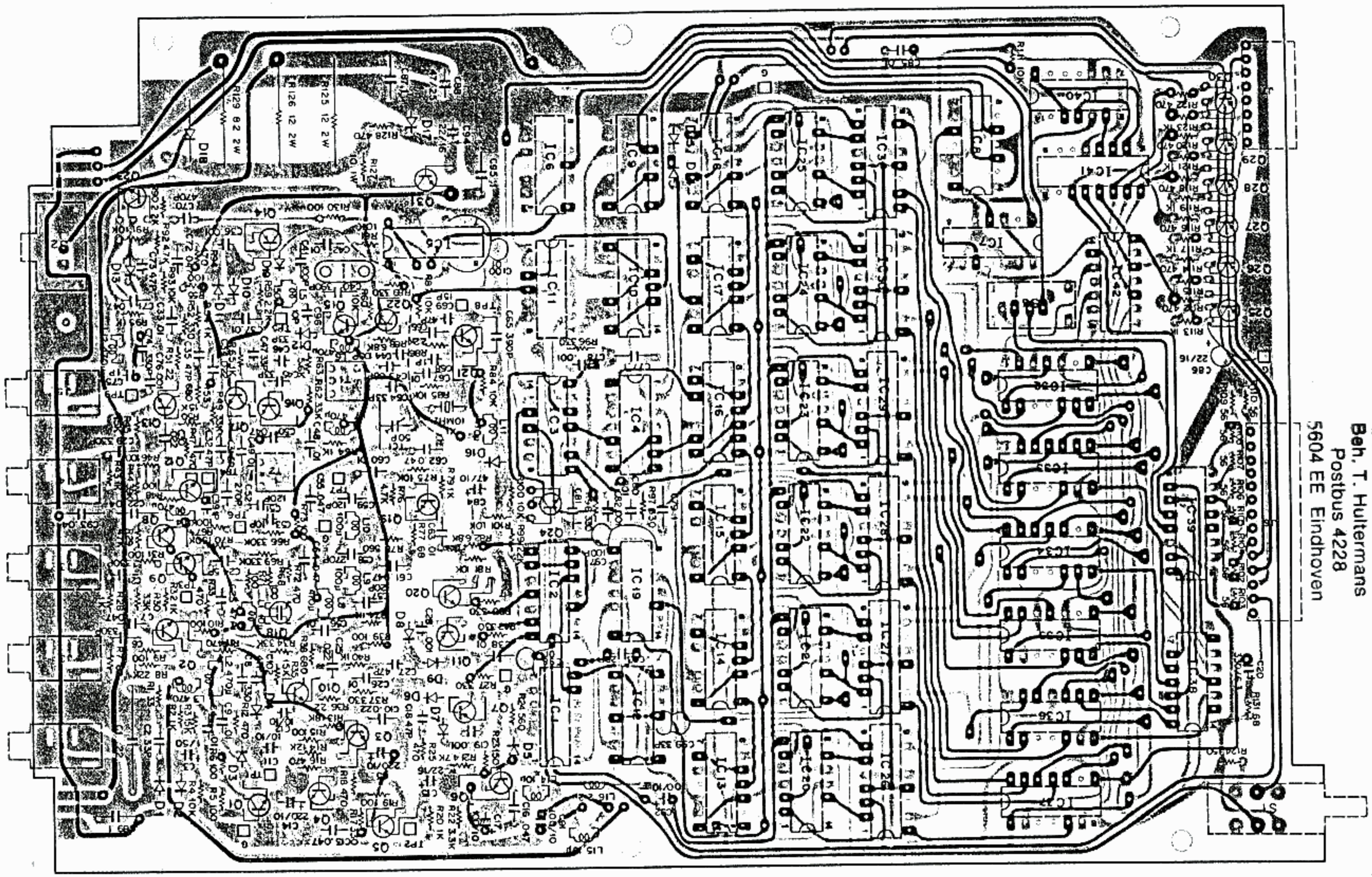
9

DG-5

KENWOOD

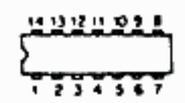
▼ Counter Unit (X54-1260-00)

SCHEMATHEEK
Beh. T. Hultermans
Postbus 4228
5604 EE Eindhoven

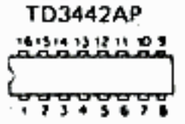


IC1:SN74S00N, IC2~4, 38:TD3400AP, IC5~10, 13~18:SN74LS90N, IC11:TD3472AP, IC12:SN74196N, IC19~25:SN74176N, IC26~31:SN74LS75N, IC32, 34, 35, 37:SN7454N, IC33, 36:TD3451AP, IC39:TD3447AP, IC40:TD3492BP, IC41:TD3442AP, IC42:TD3404AP, Q1~3, 5, 6, 9, 10, 12, 13, 19, 20, 22, 24:2SC945(R), Q4, 8, 15~17, 21, 23:2SC460(B), Q7, 11, 14, 25~30:2SA733(R), Q18:3SK41(L), Q31:2SD235(Y), D1~5, 12~16, 19:1S1587, D6~11:1N60, D17:WZ-090, D18:U05B

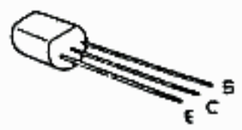
SN74S00N SN74176N
TD3400AP SN7454N
SN74LS90N TD3451AP
TD3472AP TD3492BP
SN74196N TD3404AP



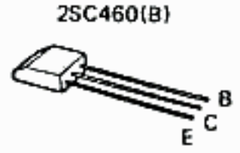
SN74LS75N
TD3447AP
TD3442AP



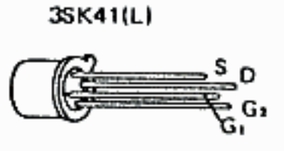
2SC945(R)
2SA733(R)



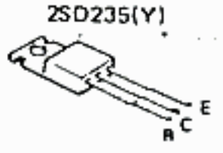
2SC460(B)



3SK41(L)



2SD235(Y)



With regard to the numbers in this diagram, refer to the the wave forms on page 37.

——— Signal line ·····

D E F G

Signal line ---------- Control signal line

X54-1270-00

2SD235

D1~3 : GL-7R201
D4 : SEL-103W

DISPLAY
COUNTER

BLANKING
ON ⟷ OFF

DIM
DH
ON ⟷ OFF

IC1 : SN74S00N
IC2,3,4,38 : TD3400AP
IC5~10, 13~18 : SN74LS90N
IC11 : TD3472AP
IC12 : SN74196N
IC19~25 : SN74176N
IC26~31 : SN74LS75N
IC32,34,35,37 : SN7454N
IC33,36 : TD3451AP
IC39 : SN74247N
IC40 : TD3492BP
IC41 : TD3442AP
IC42 : TD3404AP