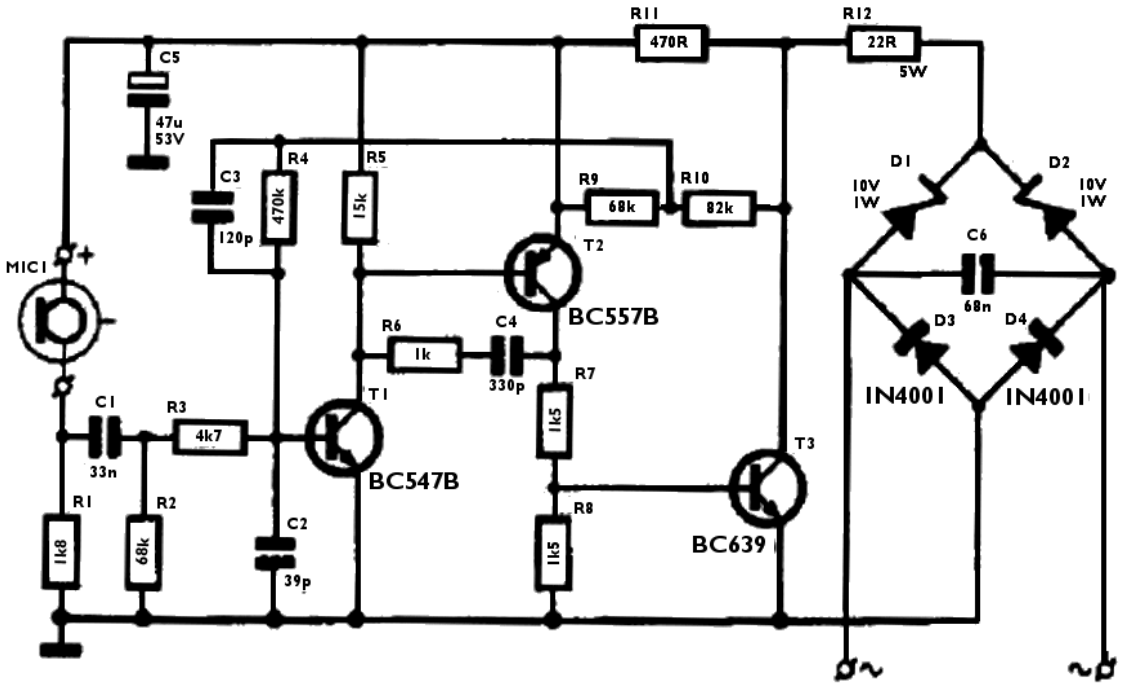
Electrect Telephone Transmitter



Resistors:—

R1 = 1.8kΩ
R2 = 68kΩ
R3 = 4.7kΩ
R4 = 470 kΩ
R5 = 15kΩ
R6 = 1kΩ
R7, R8 = 1.5kΩ
R9 = 68kΩ
R10 = 82kΩ
R11 470Ω
R12 = 22Ω 5W (½W)

Capacitors:—

C1 = 33nF
C2 = 39pF (33pF)
C3 = 120pF (100pF)
C4 = 220pF
C5 = 47µF 53V (16V)
C6 = 68nF (47nF)

Semiconductors:—

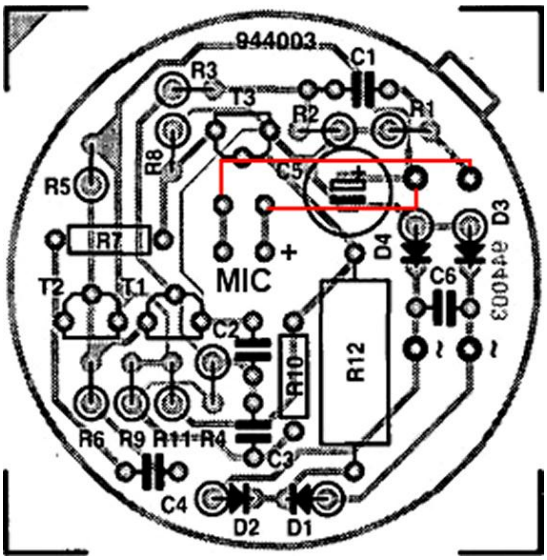
D1, D2 = 10V 1W Zener diode (1N4740A)
D3, D4 = 1N4001
T1 = BC547B (BC337)
T2 = BC557B (BC327)
T3 = BC639 (BC337*)

Miscellaneous:—

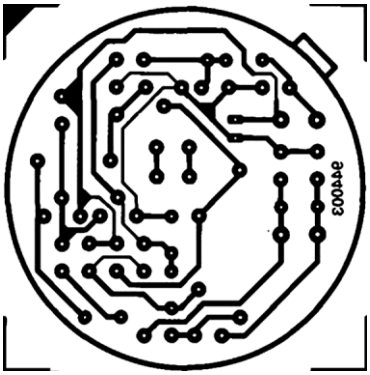
MIC = CM 105-8 electrect microphone
dia 10mm ZO = 2kΩ (Whatever I can get off e-Bay)

Values in brackets are substitutions I know to work.

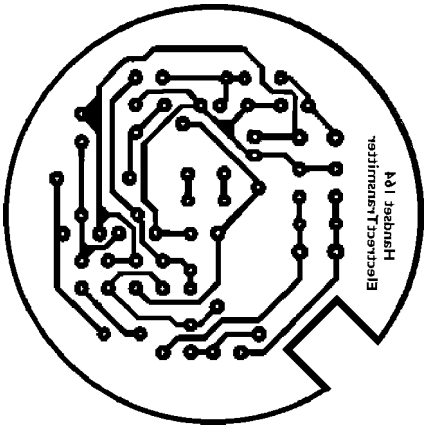
***WARNING:** The Collector and Emitter, Base and Collector, and Emitter and Base are reversed in relation to the BC639.



Component Layout
Red lines are wire links



PCB Artwork



Artwork for version to fit a Handset 164