

Heathkit Cointrack GD-1190



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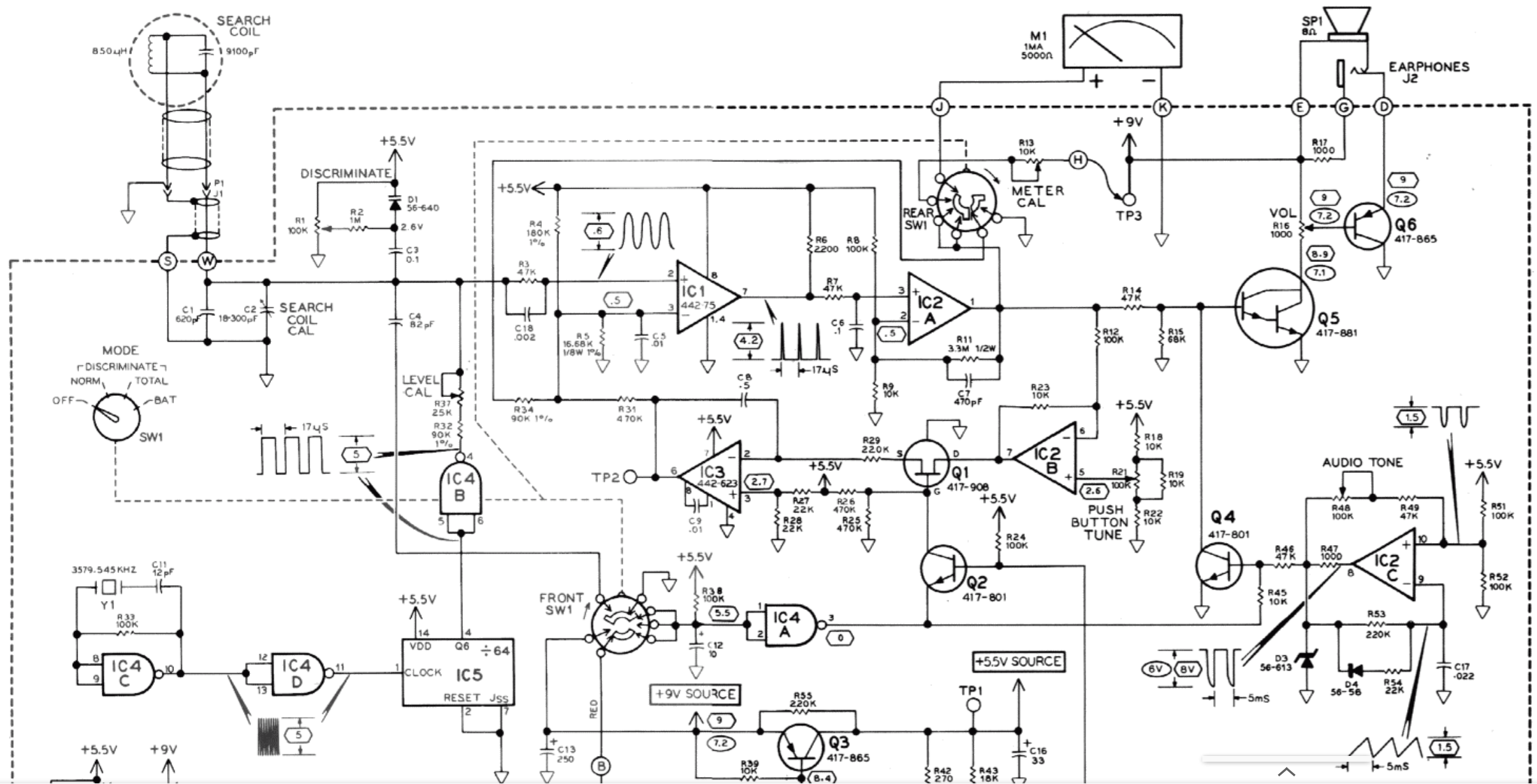




Fig. 1: Heathkit Cointrack GD-1190 metal detector schematic diagram

Notes

All resistors are 1/4 watt, 5% tolerance and all capacitors are in microfarads (uF) unless marked otherwise.

Voltages were taken with a 9 Volt supply and a setting with no sound coming from the speaker. The controls were set as follows:

- Volume -- fully counterclockwise
- Pushbutton tune -- center of rotation
- Discriminate -- center of rotation
- Audio Tune -- center of rotation.

More metal detector schematics:

- [Heathkit Groundtrack GR-1290 VLF metal detector](#)
- [Heathkit GD-48 metal detector schematic](#)
- [Tesoro Bandido II metal detector schematic](#)
- [White's Classic I metal detector schematic](#)
- [White's Surfmaster PI metal detector schematic diagram](#)
- [Simple BFO metal detector schematic diagram](#)

Parts list

ICs:

- IC1: LF211 (FET input voltage comparator IC)
- IC2: LM2902 (Quad Operational Amplifier)
- IC3: CA3130 (BiMOS Operational Amplifier)
- IC4: CD4011 (Quad 2-Input NAND)
- IC5: CD4024 (7-Stage Ripple Carry Binary Counter)

Transistors:

- Q1: 2N4117 (N-channel JFET transistor)
- Q2, Q4: MPSA20 (NPN 40V 100mA TO-92)
- Q3, Q6: MPSA55 (PNP 60V 500mA TO-92)
- Q5: MPSA13 (NPN Darlington Transistor)

Diodes:

- D1: MV2110 (30V Vrrm, 39pf Varactor Diode)
- D2, D3: 1N5230B (4.7V, 0.5W Zener Diode)
- D4: 1N4149 or 1N4148 (switching diode)

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