

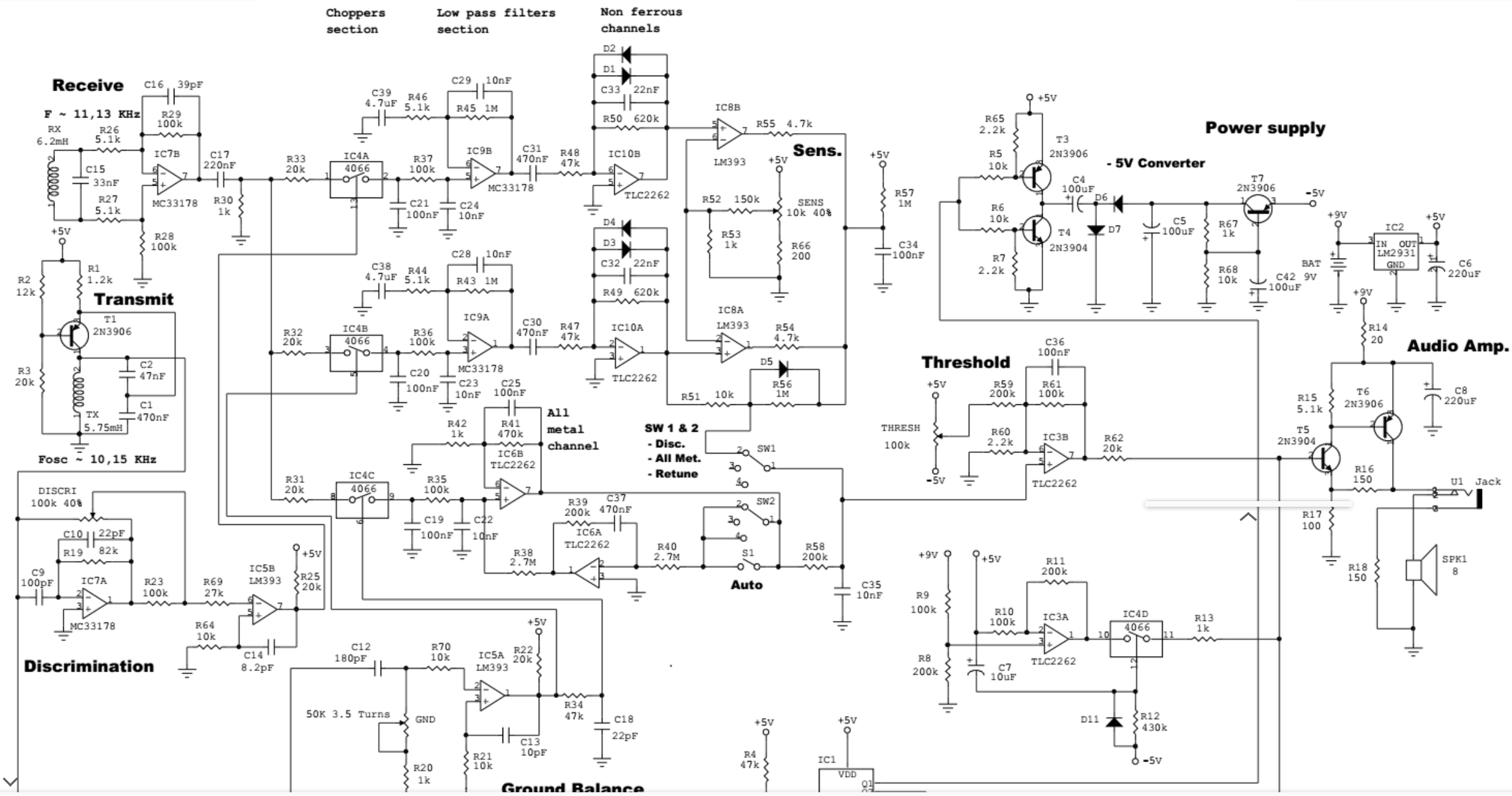
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Tesoro Bandido II metal detector



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The Bandido II is a Transmitter-Receiver type of detector that operates in the Very Low Frequency (VLF) portion of RF spectrum. It provides true mineral free operation in both "All Metal" and "Discriminate" modes.

It's sensitive to small gold particles, is powerful enough to serve as a relic and cache hunter, and is plenty fast enough for competition hunting.

The Discriminate mode is motion based, but the amount of motion required is so slight that pinpointing is easily accomplished. The All Metal mode is not motion based, so it's excellent for searching as well as pinpointing.

It is equipped with an 8" concentric coil, although other coil sizes and types are available.

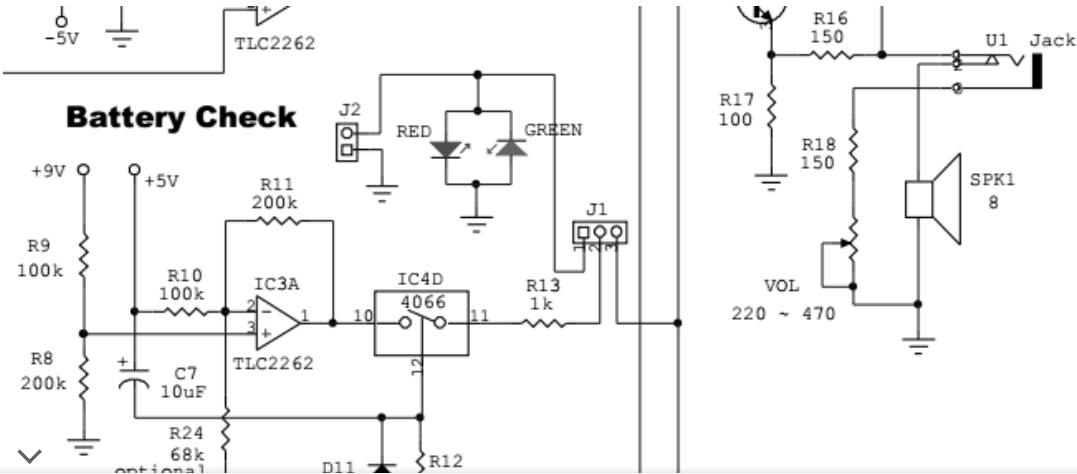
Battery mod

Battery check modification (see the schematic below):

- Add R24 (68k)
- Change R11 from 200k to 2M
- Swap R8 with R9
- Put a jumper properly on J1
- Put a bicolor LED on J2

Volume mod

You can optionally add a pot in the audio stage (220-470ohm) to control the header volume.



Parts list

ICs:

- IC1: 4024
- IC2: LM2931
- IC3, IC6, IC10: TLC2262
- IC4: 4066
- IC5, IC8: LM393
- IC7, IC9: MC33178

Transistors:

- T1, T3, T6, T7: 2N3906 (small signal, PNP)
- T2, T4, T5: 2N3904 (small signal, NPN)

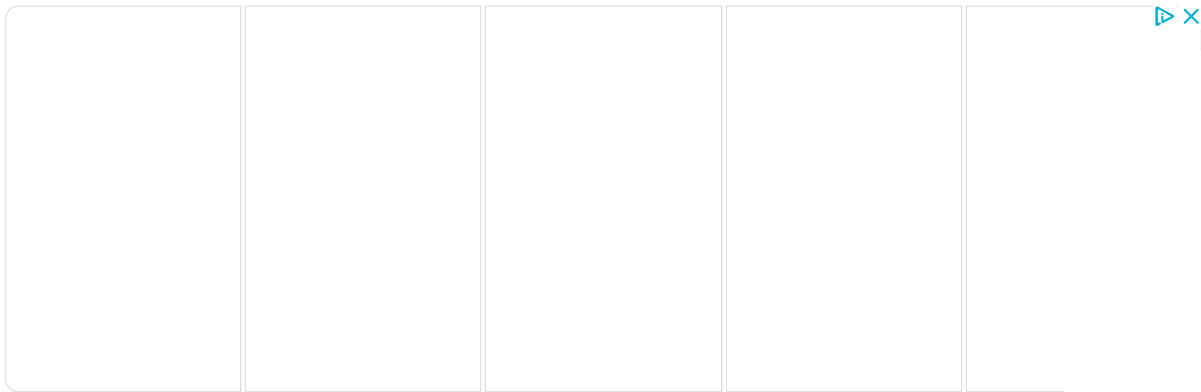
Diodes:

- D1-D10: 1N4149 or 1N4148 (switching diodes)

Notes

- All ICs except IC1 use dual power supply.
- All resistors are metal film.
- C1, C2 and C15 must be MKS like WIMA series
- WIMA capacitor series are recommended for all caps with values in nF

[Heathkit Cointrack Gd-1190 Metal Locator](#)
[Heathkit Groundtrack GR-1290 VLF metal detector](#)
[Heathkit GD-48 metal detector schematic](#)
[White's Classic I metal detector schematic](#)
[White's Surfmaster PI metal detector schematic](#)
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