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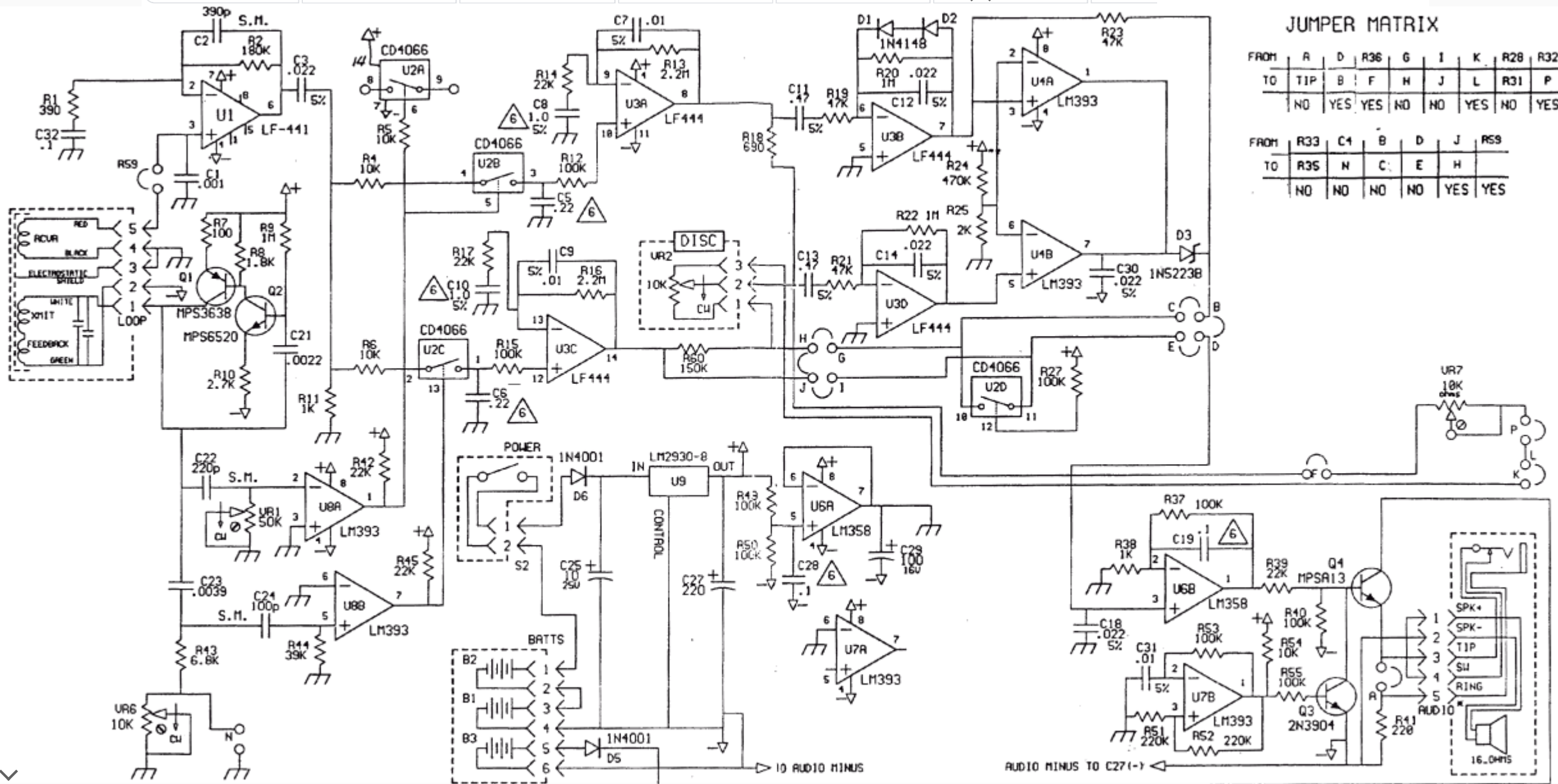
White's Classic I schematic diagram



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JUMPER MATRIX

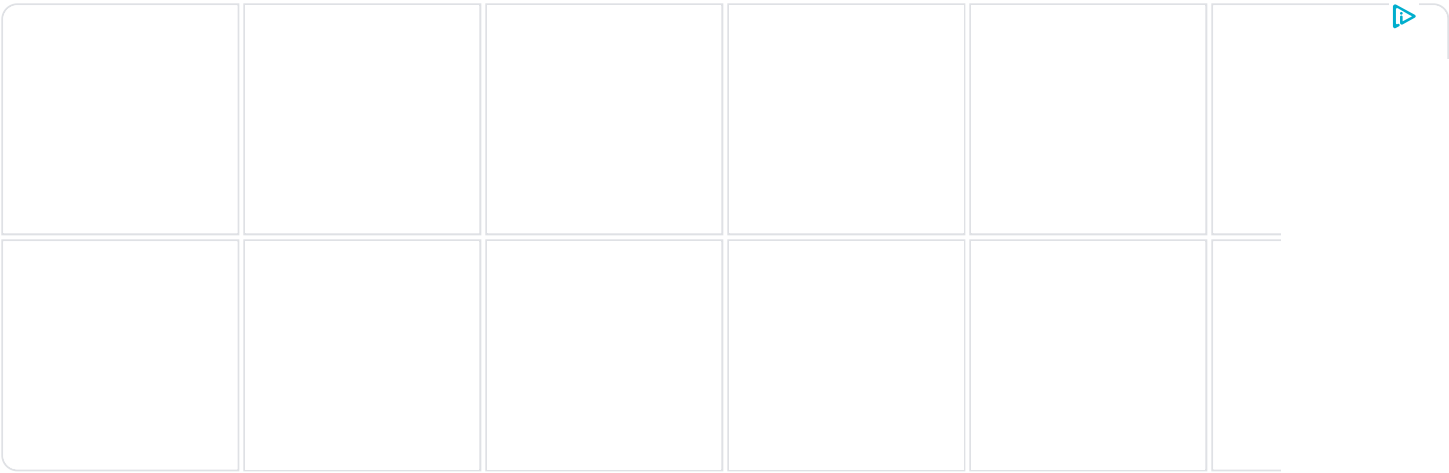
FROM	A	D	R36	G	I	K	R28	R32
TO	TIP	B	F	H	J	L	R31	P
	NO	YES	YES	NO	NO	YES	NO	YES

FROM	R33	C1	B	D	J	R59
TO	R35	N	C	E	H	
	NO	NO	NO	NO	YES	YES

with no bells or whistles, only an on/off switch and a turn knob for a discriminator. It did not have much depth but it did find coins, jewelry and relics in the hand of a skilled hobbyist. While the Classic I was good for its day, there are now better [beginner metal detectors](#) on the market.

The detector used 4 transistors (MPS3638, MPS6520, MPSA13 and 2N3904) and only a few ICs: a CD4066 digital switch, three LM393 dual comparators, LF444, LF441, LM358 op-amp ICs and an LM2930-8 3-terminal positive regulator.

All resistors in the schematic are 1/4 watt, +/- 5% tolerance and all capacitors are in microfarads unless marked otherwise. Capacitors greater than 1uF are aluminum electrolytics. Capacitors less than 1uF are polyester film type. Capacitors marked with a triangle are stacked polyester type. Areas inside dashed lines are not located on the main PCB.



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See also:

- [Heathkit Groundtrack GR-1290 VLF metal detector](#)
- [Heathkit Cointrack Gd-1190 Metal Locator](#)
- [White's Surfmaster PI metal detector schematic diagram](#)
- [Simple BFO metal detector schematic diagram](#)

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