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Manual for Unidrive

Based on the classic Unifox - Unidrive

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Some important components





Example: Resistor MF207 10K 1% Value: 10000 Ohm = 10KOhm 1 0 0 2x0 1%

> Breaking nose at the potentiometer Nase am Poti mit einer Flachzange abbrechen



Materialliste / bill of material

Quantity	Description
	Mechanic
1	PCB Unidrive
1	Mono jack 6,35mm
1	Stereo jack 6,35mm
1	3PDT Switch
1	Pot 10K-A (logarithmic) - Volume
1	Pot 100K-B (linear) - Drive
1	Pot 250K-B (linear) - Bottom
1	DC-jack isolated 5,5/2,1mm
1	Battery connector
1	Some colored wire
1	LED bezel 3mm crome
3	Steel washer 7,4mm (Potentiometer)
2	Steel washer 10,4mm (Audio jacks)
3	Self-adhesive buffer 8x3mm (back of the pots)
	Transistors
1	MPSA18
2	2N5088
-	Dioden
1	BAT-41 (Cathode line)
1	LED red 3mm (Low Current) short leg cathode
-	
	Resistors
1	Resistor 10R (brown/black/black/gold/brown)
1	Resistor 100R (brown/black/black/black/brown)
1	Resistor 1K (brown/black/black/brown/Braun)
1	Resistor 1K8 (brown/grav/black/brown/brown)
1	Resistor 2K2 (red/red/black/brown/brown) - LED
1	Resistor 3K3 (orange/orange/black/brown/brown)
1	Resistor 3K9 (orange/white/black/brown/brown)
1	Resistor 10K (brown/black/black/red/brown)
2	Resistor 100K (brown/black/black/orange/black)
1	Resistor 150K (brown/green/black/orange/black)
1	Trimmer 50K Copal
	Capacitors
	-
1	Ceramic cap 39pF (391)
1	Foil cap 1nF MKT (102)
1	Foil cap 4,7nF MKT (472)
4	Electrolytic 10µF/25
1	Electrolytic 47µF/16v
1	Electrolytic 100µF/16



Assembling the PCB

First, the printed circuit board is assembled according to the printed values. For this you should start with the lowest components, i.e. first the resistors, the diode, the capacitors and finally the transistors. Clean work, especially the design of the solder joints, should have top priority in order to generally rule out assembly and soldering errors from the outset.

Once the printed circuit board is fully assembled, the mechanical components are mounted in the enclosure and the external wiring is carried out. Provided that the enclosure is already prepared with all holes.

The input jack should be wired beforehand. (2 wires to ground (sleeve), ring \rightarrow black wire from the battery clip and a wire from tip, which then goes to the switch.



You can shorten the wires of the battery clip and use the black one for a tip. The connection between the switch and the output socket is made with a piece of cut off component wire.



Notes on the mechanical structure:

The small noses on the potentiometers are simply broken off with pliers (see illustration: page 2). You should use knobs with a maximum diameter of 20mm if you use a structure as shown in the pattern. The holes of the jacks are located 13mm from the bottom of the case, the DC jack 11.5mm from the bottom.

The following drill diameters should be used: Potentiometer : 7.5mm Audio jack : 9.3mm 3PDT-Switch: 12mm DC-jack: 12mm LED bezel: 6mm







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