

Boss OD-1 Replica Instructions (Based on the ITS8 PCB)

Version 2018May07

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This is the Boss OD-1 Overdrive Replica. Use the project documents provided, starting with the General Build Instructions. This uses the PCB originally designed for the Ibanez TS-808 replica. The circuit is similar, so it works well here. There is one resistor (R8) that needs to be installed “kitty cornered”, so pay close attention to the parts placement diagram. There are also two wire jumpers that need to be installed across some of the wiring pads as shown in the parts placement/wiring diagram.

D5 is optional, it is there to prevent reverse polarity power from destroying the IC. If you decide not to install D5, do not put a jumper in place of D5, just leave it blank. C12 is a power supply filter cap and is also somewhat optional. If you plan on only using battery power, you probably don't need C12. Again, if you don't install C12, do not install a jumper, leave it blank. If you have D5 installed and you do ever zap the unit with reverse power, hopefully all you have to do to fix it is replace or remove D5.

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Here's an inside view of the unit we built to show our construction details.



Here is a chart of voltages taken at the IC and transistor pins. This information can be used to help you find and fix problems if your OD-1 Replica doesn't work when you test it. The voltages are approximate, you may not get these exact readings, but they should be somewhere close.

Component	Location	Voltage
9 volt power supply		9.4v
IC	IC Pin 1	4.7v
	IC Pin 2	4.8v



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	IC Pin 3	4.7v
	IC Pin 4	0v
	IC Pin 5	4.7v
	IC Pin 6	4.7v
	IC Pin 7	4.7v
	IC Pin 8	9.4v
Q1	Collector	9.4v
	Base	4.2v
	Emitter	3.9v
Q2	Collector	9.4v
	Base	4.2v
	Emitter	3.9v

Comments and questions are welcome and can be sent to info@generalguitargadgets.com