

Bonus PCB based on the MXR IL Diavolo – Custom Shop

This PCB is only available as a **Free Bonus PCB** with qualifying orders and **not available for sale**.

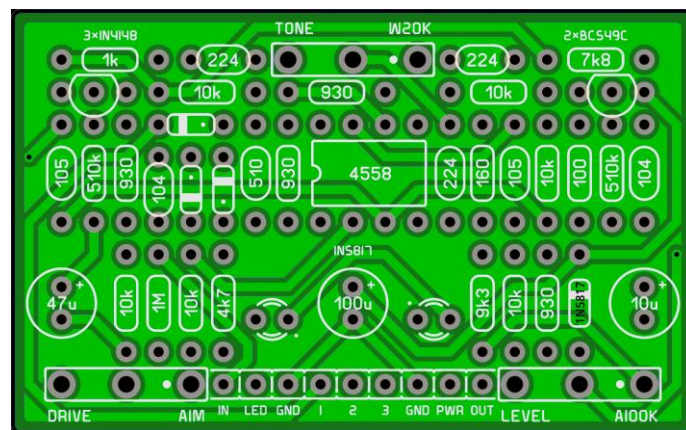
MXR IL Diavolo – Custom Shop (inspired)

A dynamic, amp-like overdrive that ranges from edge-of-breakup grit to saturated, singing lead tones. It's touch-sensitive, cleans up from your guitar's volume, and stacks well with boosts or other drives. A Voice toggle lets you choose between a warmer, smoother character and a more open, biting response.

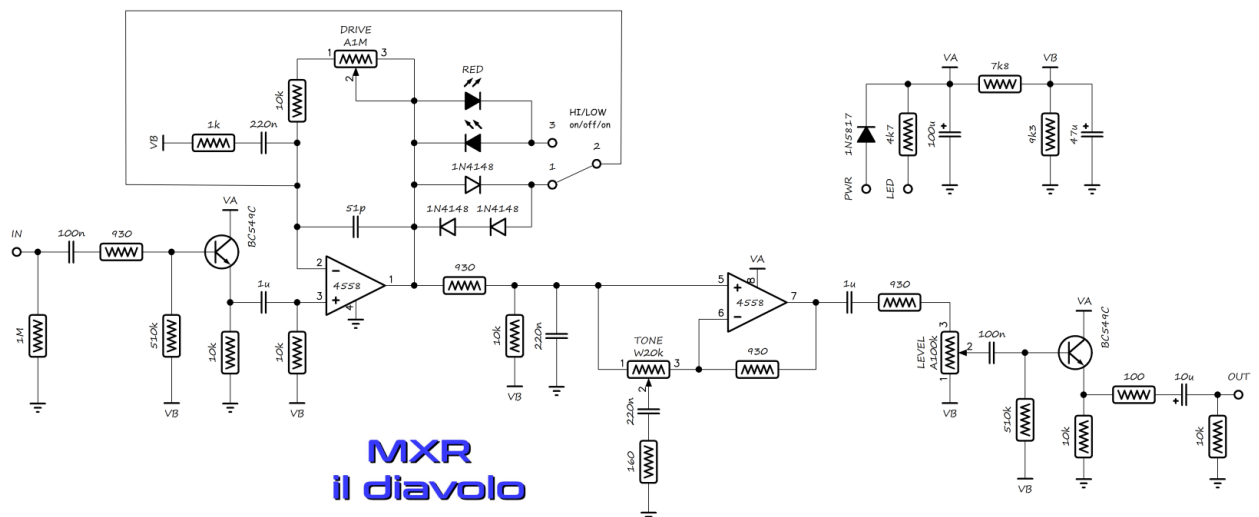
Controls

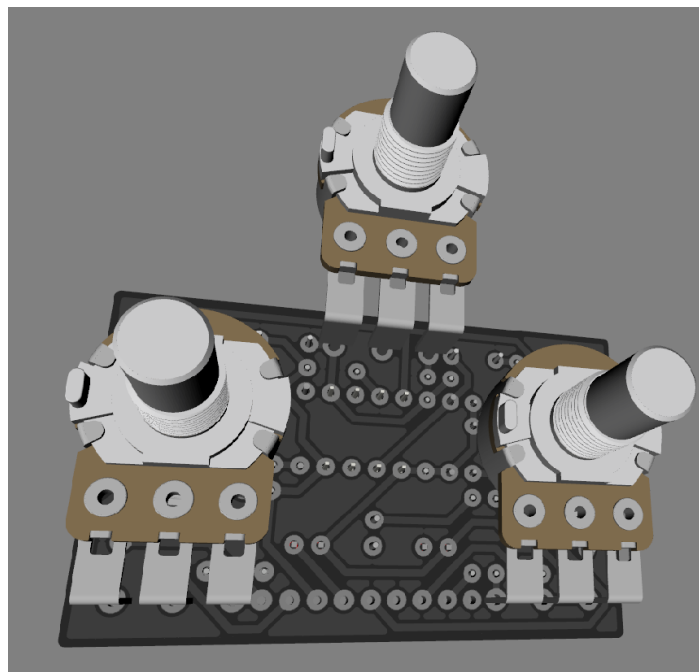
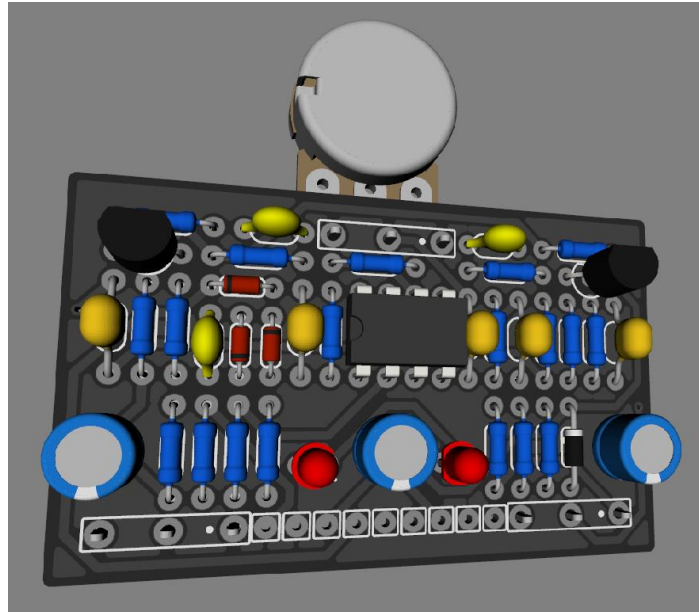
- **Level** – Overall output.
- **Drive** – Sets gain/saturation.
- **Tone** – Global treble roll-off/brightness.
- **Voice (3-way)** – Selects the clipping style: Silicon asymmetrical clipping (tighter, more compression, classic OD feel), LED symmetrical clipping (louder, more tube amp like), or Open (no diodes; op-amp clipping for the most headroom and Boost).

All component values and capacitor codes are printed directly on the PCB. Use this information in conjunction with the provided schematic and reference photos for assembly.



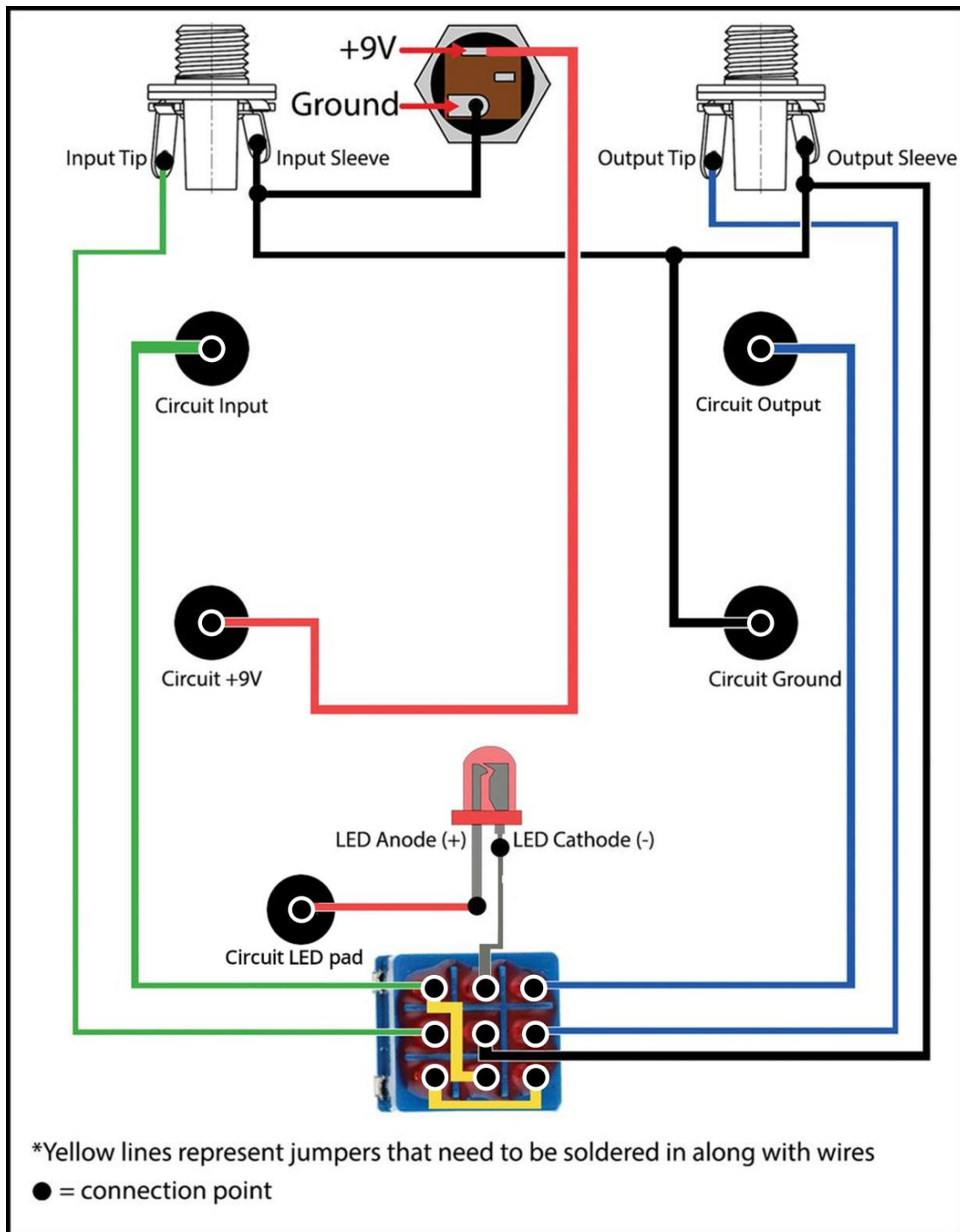
Note: An SPDT On/Off/ON switch is required and is connected to pads 1, 2, & 3 on the PCB. LED dots indicate Cathode.





Use the link below to download a handy capacitor code chart:

<https://tinyurl.com/capacitor-codes>

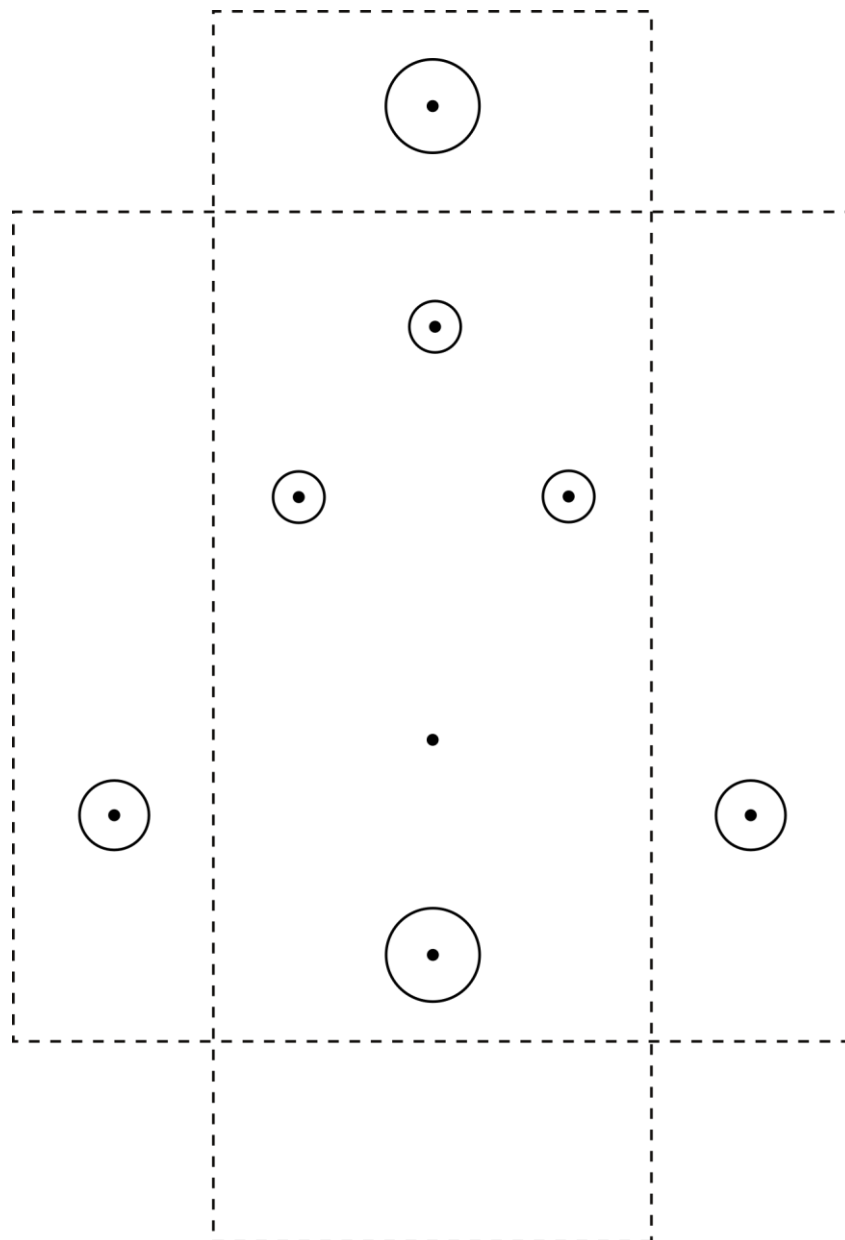


Wiring Guide Notes

This generic wiring diagram covers all required connections, though grounding methods can vary. I personally prefer making **star ground connections to the jack sleeve lugs**, as they are larger and more mechanically secure — but any method that maintains proper continuity is acceptable.

The ground wire connecting the Input and Output jacks is optional but recommended. While not strictly necessary, it adds reliability in case a jack loses contact with the enclosure.

If troubleshooting is needed, you can use a **Digital Multimeter (DMM) in continuity mode** to verify that all ground and signal connections are properly made using this chart.



Drill Template Note

You will need to add a location for your SPDT switch.

A drill template is included for enclosure layout. Be sure to print at **100% scale** (Actual Size) — do **not** use “Fit to Page.”

 **Always verify the template against your actual PCB and assembled build** before drilling.

Attribution

This PCB layout was shared publicly on PCBWay by user **“Glory to Ukraine”**. It’s included here solely as a non-commercial bonus project. Thank you for making this available to the DIY community.

Note: 10% of the PCB cost is donated to the designer by the manufacturer.