

This mod increases the **volume of the synth level** and also the **guitar volume** out of the **iPD MIX socket**. I have always had trouble with the low volume levels out of this socket, especially with how it affects **distortion pedal drive**, in comparison to the straight guitar output socket. This mod helps to even up the **iPD mix socket levels** in relation to the straight guitar out socket. The mod simply adds **2 resistors in parallel** to the ones on the **output circuit board** to increase the volumes.

Guitar volume output line: To the 22k resistor on the output board, solder a **10K resistor** in parallel.

Synth volume output line: To the 4.7K resistor, solder a **1.5K resistor** in parallel.

**Synth volume** - I found if you reduce the synth line's resistance to less than about 1k, you start getting **digital noise artifacts** coming through when the synth volume pot is at the maximum and minimum positions (it disappears at all other positions). A 1.5K resistor increased the volume but didn't add noise. It still isn't quite as loud as I would like but it is better than before.

**Guitar volume** – you can use a **lower resistor** than the 10K recommended to get even louder straight guitar volume out of the iPD socket. 10K is a good volume match for the **synth volume**, which is restricted by the digital noise if you go lower than 1.5K

