

## PIL-Box modification

### Using pulse transformers for HP-IL signal coupling

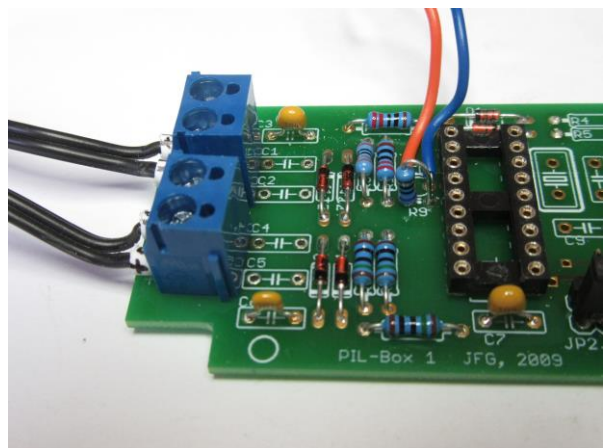
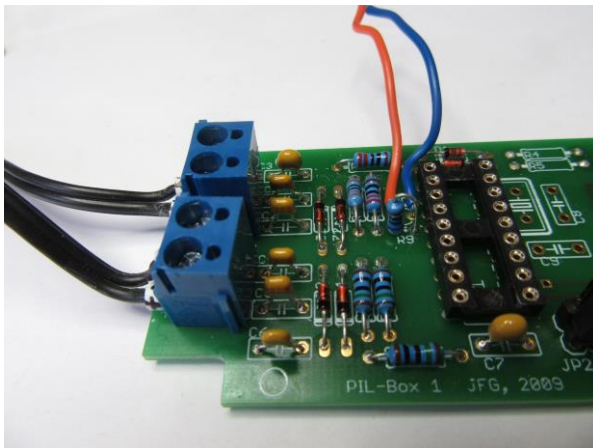
J-F Garnier, September 2020

(updated Nov. 2024)

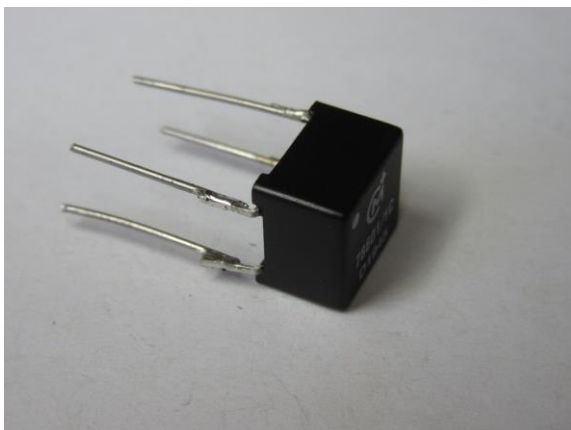
The modification consists in removing the capacitors C1, C2, C4 and C5 and installing two pulse transformers Murata 78601/1C

Since the footprint of the pulse transformer is larger than the two capacitors, some adaptation is needed.

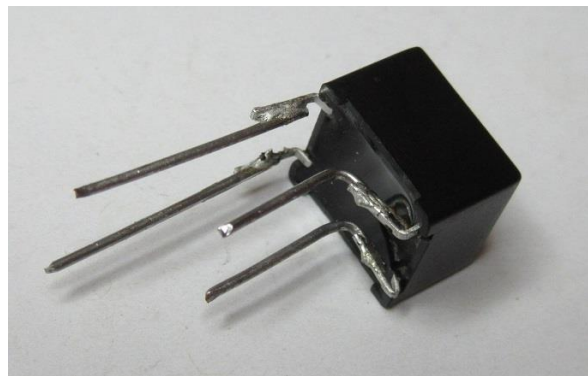
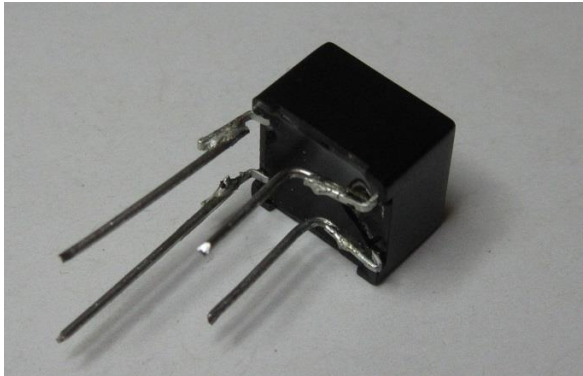
#### 1. Remove the capacitors C1, C2, C4 and C5



#### 2. Solder four short leads taken from resistor leads on each transformer pin



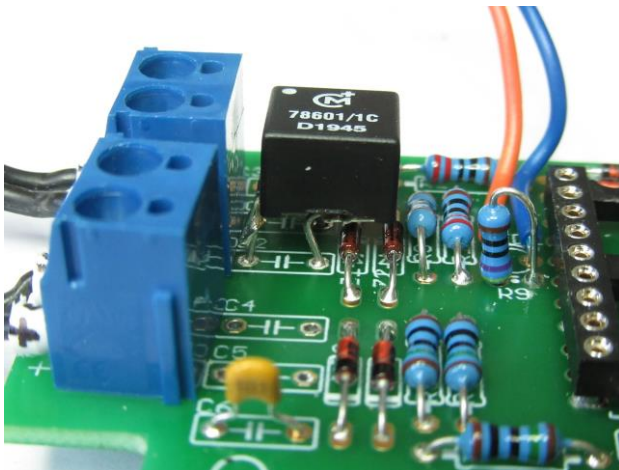
**3. Bend the right-side leads to fit the capacitor footprint spacing, at half the transform footprint:**



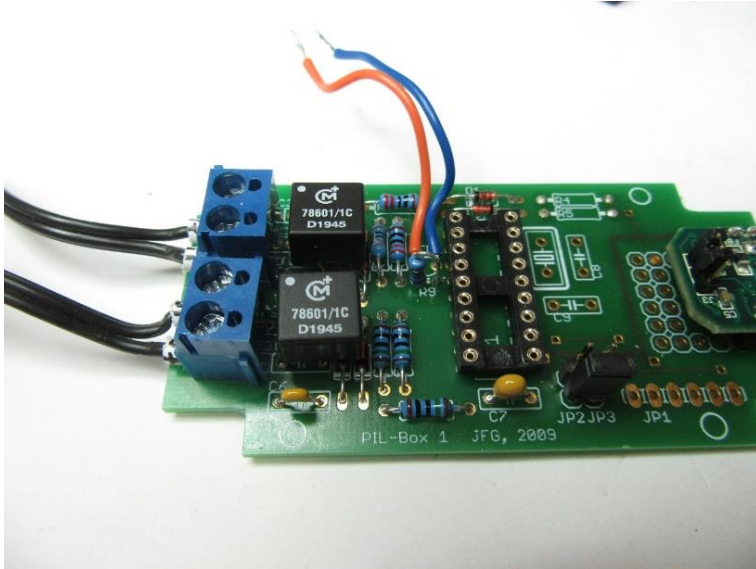
**4. Install the pulse transformers.**

Make sure the right-side pins don't touch the underlying components.

**Attention:** Solder the transformers as fast as possible to avoid melting the upper solders !



**5. Done !**



Reference schematic (corrected Nov.2024):

