



Installation instructions for the Eyb Megaswitch® 3.0

It is necessary to know:

- which magnets of different pickup coils are of equal or opposite polarity
- which cables lead to these coils

To achieve hum elimination, pickup coils with opposite magnetic polarity must be combined in parallel or serial mode. Equal poles repel, opposite poles attract each other. To identify the polarities, you can take a magnet or a singlecoil pickup and hold one side of it on top of the coils of the pickup to be used for the Megaswitch wiring. If the magnets attract each other they are reversed polarity. If they repel each other they are equal polarity. If you are using humbuckers you have to identify cable assignments. Normally those are given by pickup manufacturers. You can identify these by connecting them to an electrical multimeter (set to 200 mV). Knock the top of the coil with a magnetic item like a screw driver. If the multimeter reacts the cables belong to this coil. This can also be done acoustically by connecting the cables to an amplifier.

If the correct coils are on but the sound is out of phase (thin and nasal) cables are to be changed as follows: single coil pickups – exchange hot and ground wires. Humbuckers – disconnect the serial link wires, combine former hot and ground wires and connect instead of former serial link. Connect the wires according to the identifications made before to hot and ground.

Recommended polarities to receive hum cancelling:

Pickups			Polarity			Type
bridge	mid	neck	St	M	H	
Single Coil /		Single Coil	N		S	E, T, S, M
Single Coil /	Single Coil /	Single Coil	N	S	N	E, S, M
Single Coil /	Single Coil /	Humbucker	N	S	SN	E, S, M
Single Coil /		Humbucker	N		NS	E, T, S, M
Humbucker/		Humbucker	NS		SN	E, T, S, M
Humbucker/		Humbucker	NS		NS	P*
Humbucker/		Single Coil	NS		N	E, T, S, M
Humbucker /	Single Coil /	Humbucker	NS	S	SN	E, T, S, M

* for Megaswitch P it might be necessary to turn the magnets of one of the pickups to get the wanted configuration. **We highly recommend the have this done by an experienced guitar tech!**

The mentioned configurations can also be reversed. N = S and S = N will give the same results.

Mount the Megaswitch with the pcb (print conductor board) facing the centre of the instrument. In left hand guitars reversed if there is enough space. If not all types of Megaswitches can be installed and wired in a left hand mode. Terminals are assigned:

1 – 12	Type E
1 – 8 and A, B, C and D	Type S and T
1 – 7	Type P
A 1 – 5, B 1 – 5, C 1 – 5, D 1 – 5	Type M

Neighbouring terminals can be connected with soldering bridges. Heat both ends with a soldering gun and then connect with solder. Using flux or solder with flux is recommended. It might take some practise to do this but it saves the effort of attaching jumper cables.