



P45 (MXR Phase 45™ Replica) Instructions

Version 2015 August 19

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This is a replica of the MXR™ Phase 45™ referred to as **P45** in these documents. This is a replica of the original, vintage, real MXR™ unit, not the Dunlop™ reissue.

This is an under-rated and a most excellent phase shifter. Sometimes wrongly written off as "too subtle", with the properly tuned JFETs, it is just a beautiful sounding phase shifter.

Use the project documents provided, starting with the General Build Instructions. It will fit in a 1590B or similar enclosure, with a little planning, although you would have to use plastic enclosed jacks and fit the PCB over those. The kit and photos here are of a 125B enclosure to make it easier to fit together. If you use the 1590B or 1290B, the holes for the jacks need to be drilled as close to the top of the enclosure as possible and enclosed jacks should be used so that the populated PCB will fit over the jacks as the original did.

The JFETS need to be matched. You can use the information at the geofex.com site to do that. The kit comes with a great sounding set of matched 2N5485 transistors. The original units had 2N5952 JFET transistors. **Note that the pin out of these transistors may vary.** The 2N5952 will probably have to be installed backwards from what the layout shows.

When the unit is completely assembled, plug it in and adjust the trimmer for the best

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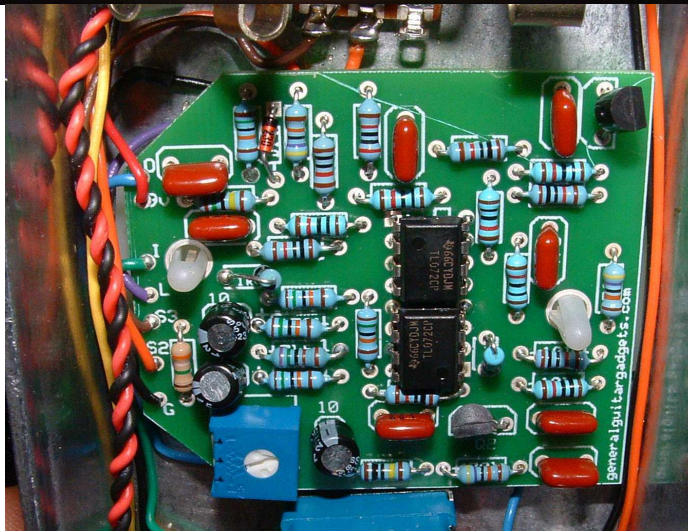
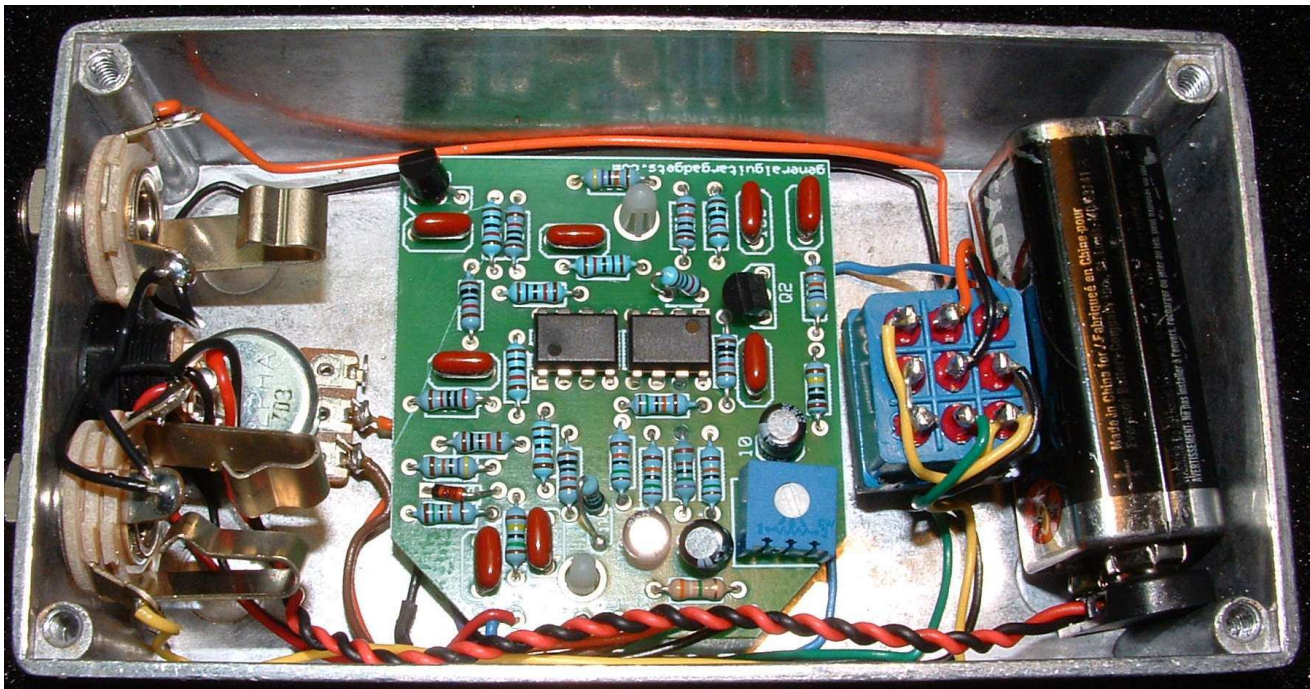
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sounding phase shift. You will definitely hear the sweet spot in the trimmer setting.

Following are some photos of the inside of the unit. Comments and questions are welcome and can be sent to info@generalguitargadgets.com





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Component	Location	Voltage
9 volt power supply		9.4v
Q1	Gate	2.2v plus or minus some
	Source	4.0v
	Drain	4.0v
Q2	Gate	2.2v plus or minus some
	Source	4.0v
	Drain	4.0v
IC1	Pin 1	4.0v
	Pin 2	4.0v
	Pin 3	3.8v
	Pin 4	0v
	Pin 5	4.0v
	Pin 6	4.0v
	Pin 7	4.0v
	Pin 8	9.4v
IC2	Pin 1	4.0v
	Pin 2	4.0v
	Pin 3	Varies with Speed Control
	Pin 4	0v
	Pin 5	Varies with Speed Control
	Pin 6	Varies with Speed Control
	Pin 7	Varies with Speed Control
	Pin 8	9.4