

PHANTOM COIL DIY PCB

Hey! Thanks for grabbing a Phantom Coil PCB.

Phantom Coil is a lofi dirty reverb that is built around a genuine spring reverb tank. It should just about fit into a 1590XX enclosure with the tank although you may want to house the circuit separately in a smaller enclosure and add send/return jacks to try out a few different tanks. I built it around the Accutronics AMC2EF3 as it's cheap and readily available and is about the only tank small enough inside a pedal enclosure. You may want to try it out with other tanks although I can't guarantee they'll work.

There are four controls on the pcb. Master sets the overall output volume, Gain sets the drive for both wet and dry signals, Wet sets the volume of the signal returning from the tank and Colour is a tone control that affects both wet and dry signals.

I've added artwork below if you want to apply some to the pedal or just print it out and use it as a drill guide.

[ARTWORK](#)

[SCHEMATIC](#)

[WIRING DIAGRAM](#)

RESISTORS

- 1 100R - R1
- 2 100K - R23, R26
- 2 10K - R9, R17
- 2 10M - R11, R12
- 1 10R - R10
- 1 1K - R15
- 1 1M - R6
- 2 220K - R2, R3
- 2 22K - R8, R27
- 1 330K - R19
- 3 3K3 - R14, R24, R25
- 1 3M3 - R18
- 1 47K - R22

- 3 4K7 - R4, R21, R28
- 1 5K1 - R13

CAPACITORS

- 1 220N - C24
- 5 100N - C5, C9, C10, C13, C20
- 1 47N - C1
- 1 22NF - C21
- 1 10N - C16

- 3 120PF - C12, C17, C18

- 2 1UF - C14, C15
- 2 10UF - C19, C22
- 3 100UF - C3, C4, C11
- 1 47UF - C6

DIODES

- 1 1N5817 - D1

POTS

- 2 A100K - WET, MASTER
- 1 B100K - COLOUR
- 1 C500K - GAIN
- 1 100K - TRIMMER - INPUT

IC'S

- 1 LM386 IC1
- 1 TL074 IC2

TRANSISTOR

- 1 BS170 Q1

REVERB TANK

ACCUTRONICS AMC2EF3