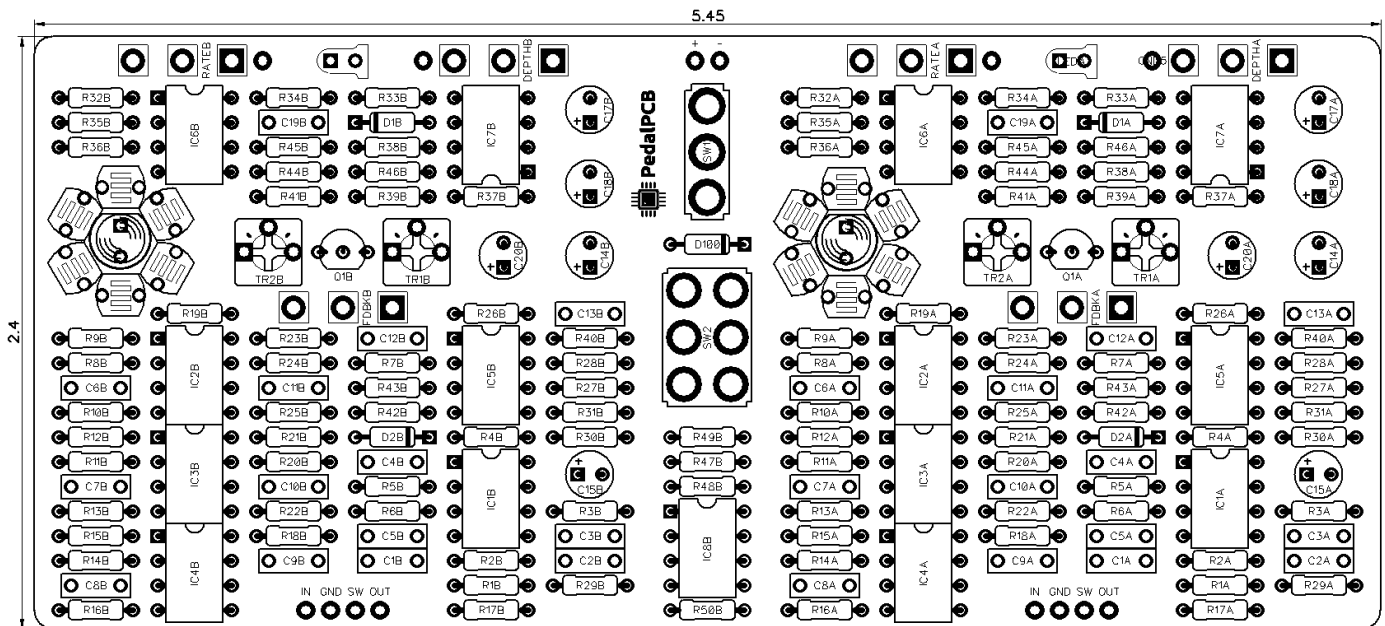


PedalPCB **Duo-Phase**

Revision 07.02.18



Introduction

The Duo-Phase was inspired by the legendary Mu-Tron Bi-Phase.

Controls

- **Rate A** – Sets the LFO speed of Phaser A
- **Depth A** – Sets the LFO depth of Phaser A
- **Feedback A** – Sets the regeneration of Phaser A
- **Rate B** – Sets the LFO speed of Phaser B
- **Depth B** – Sets the LFO depth of Phaser B
- **Feedback B** – Sets the regeneration of Phaser B
- **Sync** (Toggle switch) – Sets the LFO synchronization of Phaser B (Normal / Reverse)
- **Sweep** (Toggle switch) – Selects the LFO source of Phaser B (LFO A / LFO B)

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RESISTORS (1/4W)

R1A 390K
 R1B 390K
 R2A 3K9
 R2B 3K9
 R3A 390K
 R3B 390K
 R4A 4K7
 R4B 4K7
 R5A 4K7
 R5B 4K7
 R6A 4K7
 R6B 4K7
 R7A 8K2
 R7B 8K2
 R8A 4K7
 R8B 4K7
 R9A 4K7
 R9B 4K7
 R10A 220K
 R10B 220K
 R11A 4K7
 R11B 4K7
 R12A 4K7
 R12B 4K7
 R13A 220K
 R13B 220K
 R14A 4K7
 R14B 4K7
 R15A 4K7
 R15B 4K7
 R16A 220K
 R16B 220K
 R17A 4K7
 R17B 4K7
 R18A 4K7
 R18B 4K7
 R19A 220K
 R19B 220K
 R20A 4K7
 R20B 4K7
 R21A 4K7
 R21B 4K7
 R22A 220K
 R22B 220K
 R23A 4K7
 R23B 4K7
 R24A 4K7
 R24B 4K7
 R25A 220K
 R25B 220K
 R26A 10K
 R26B 10K
 R27A 8K2
 R27B 8K2
 R28A 18K
 R28B 18K
 R29A 560R
 R29B 560R
 R30A 10K

R30B 10K
 R31A 8K2
 R31B 8K2
 R32A 68K
 R32B 68K
 R33A 4K7
 R33B 4K7
 R34A 120R
 R34B 120R
 R35A 39K
 R35B 39K
 R36A 47K
 R36B 47K
 R37A 560R
 R37B 560R
 R38A 68K
 R38B 68K
 R39A 47K
 R39B 47K
 R40A 2K2
 R40B 2K2
 R41A 2K2
 R41B 2K2
 R42A 10K
 R42B 10K
 R43A 68K
 R43B 68K
 R44A 220K
 R44B 220K
 R45A 330R
 R45B 330R
 R46A 3K9
 R46B 3K9
 R47B 39K
 R48B 39K
 R49B 47K
 R50B 18K

SWITCHES

SW1 SPDT Toggle
 (On / On)
 SW2 DPDT Toggle
 (On / On)

POTENTIOMETERS

RATEA B25K
 RATEB B25K
 DEPTHA B10K
 DEPTHB B10K
 FDBKA A10K
 FDBKB A10K

TRIM POTS

TR1A 10K Trim (3362P)
 TR1B 10K Trim (3362P)
 TR2A 1K Trim (3362P)
 TR2B 1K Trim (3362P)

CAPACITORS

C1A 100n
 C1B 100n
 C20A 220u
 C20B 220u
 C2A 47p
 C2B 47p
 C3A 100n
 C3B 100n
 C4A 1n
 C4B 1n
 C5A 3n3
 C5B 3n3
 C6A 6n8
 C6B 6n8
 C7A 6n8
 C7B 6n8
 C8A 6n8
 C8B 6n8
 C9A 6n8
 C9B 6n8
 C10A 6n8
 C10B 6n8
 C11A 6n8
 C11B 6n8
 C12A 470n
 C12B 470n
 C13A 820p
 C13B 820p
 C14A 10u
 C14B 10u
 C15A 1u
 C15B 1u
 C17A 10u
 C17B 10u
 C18A 10u
 C18B 10u
 C19A 470n
 C19B 470n

OPTICAL

LDR1A LDR
 LDR1B LDR
 LDR2A LDR
 LDR2B LDR
 LDR3A LDR
 LDR3B LDR
 LDR4A LDR
 LDR4B LDR
 LDR5A LDR
 LDR5B LDR
 LDR6A LDR
 LDR6B LDR

INTEGRATED CIRCUITS

IC1A TL072
 IC1B TL072
 IC2A TL072
 IC2B TL072
 IC3A TL072
 IC3B TL072
 IC4A TL072
 IC4B TL072
 IC5A TL072
 IC5B TL072
 IC6A TL072
 IC6B TL072
 IC7A TC1044SCPA
 IC7B TC1044SCPA
 IC8B TL072

TRANSISTORS

Q1A 2N4401
 Q1B 2N4401

DIODES

D100 1N5817
 D1A 1N4148
 D1B 1N4148
 D2A 1N4148
 D2B 1N4148
 D3A Yellow 5mm LED
 D3B Yellow 5mm LED

LEDA Indicator LED
 LEDB Indicator LED

Common offboard components (enclosure, footswitch, jacks, etc) are not listed

RESISTORS (1/4W)

2	120R
2	330R
4	560R
4	2K2
4	3K9
32	4K7
6	8K2
6	10K
3	18K
4	39K
5	47K
6	68K
14	220K
4	390K

CAPACITORS

2	47p	(Ceramic)
2	820p	(Ceramic)
2	1n	(Film)
2	3n3	(Film)
12	6n8	(Film)
4	100n	(Film)
4	470n	(MLCC or Film)
2	1u	(Electrolytic)
6	10u	(Electrolytic)
2	220u	(Electrolytic)

INTEGRATED CIRCUITS

13	TL072
2	TC1044SCPA

TRANSISTORS

2	2N4401
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DIODES

1	1N5817
4	1N4148
2	Yellow LED
2	Indicator LED

OPTICAL

12	LDR
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POTENTIOMETERS

2	B25K
2	B10K
2	A10K

TRIM POTS

2	10K Trim	(3362P)
2	1K Trim	(3362P)

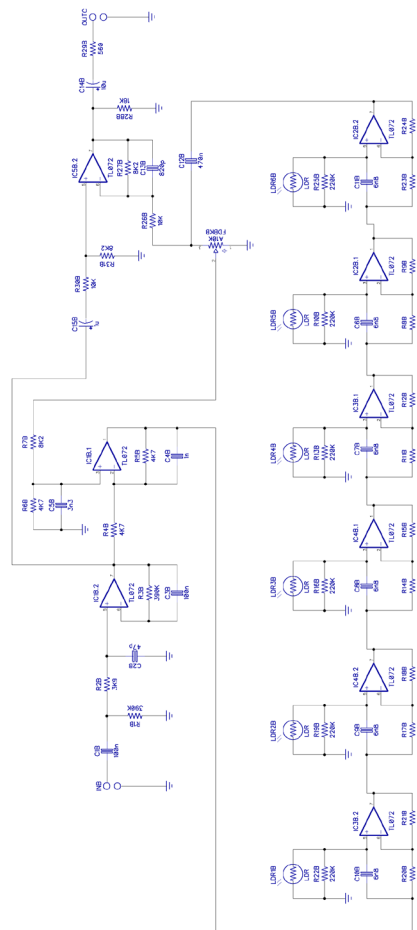
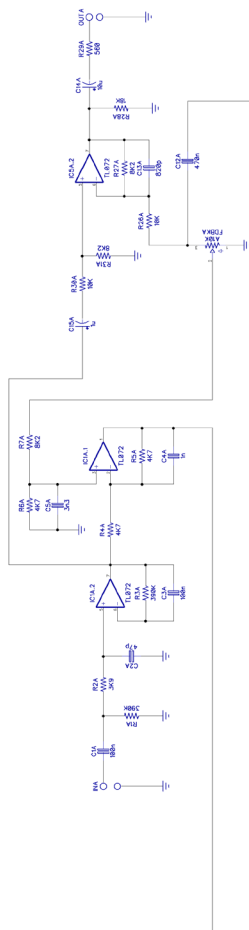
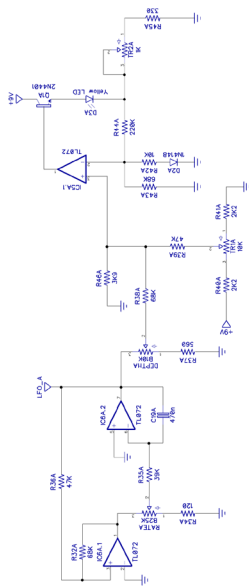
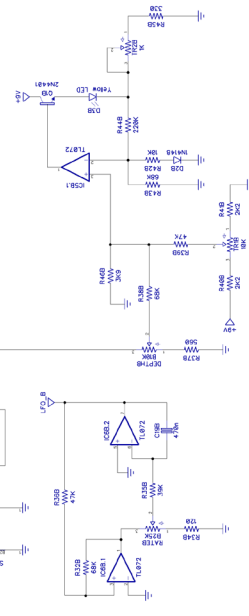
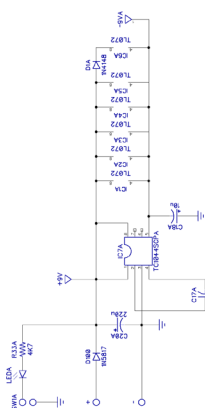
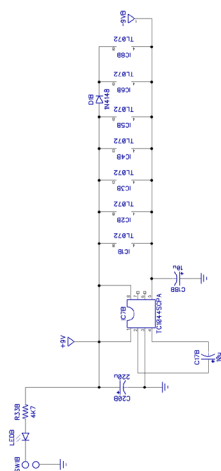
SWITCHES

1	SPDT (On/On)
1	DPDT (On/On)

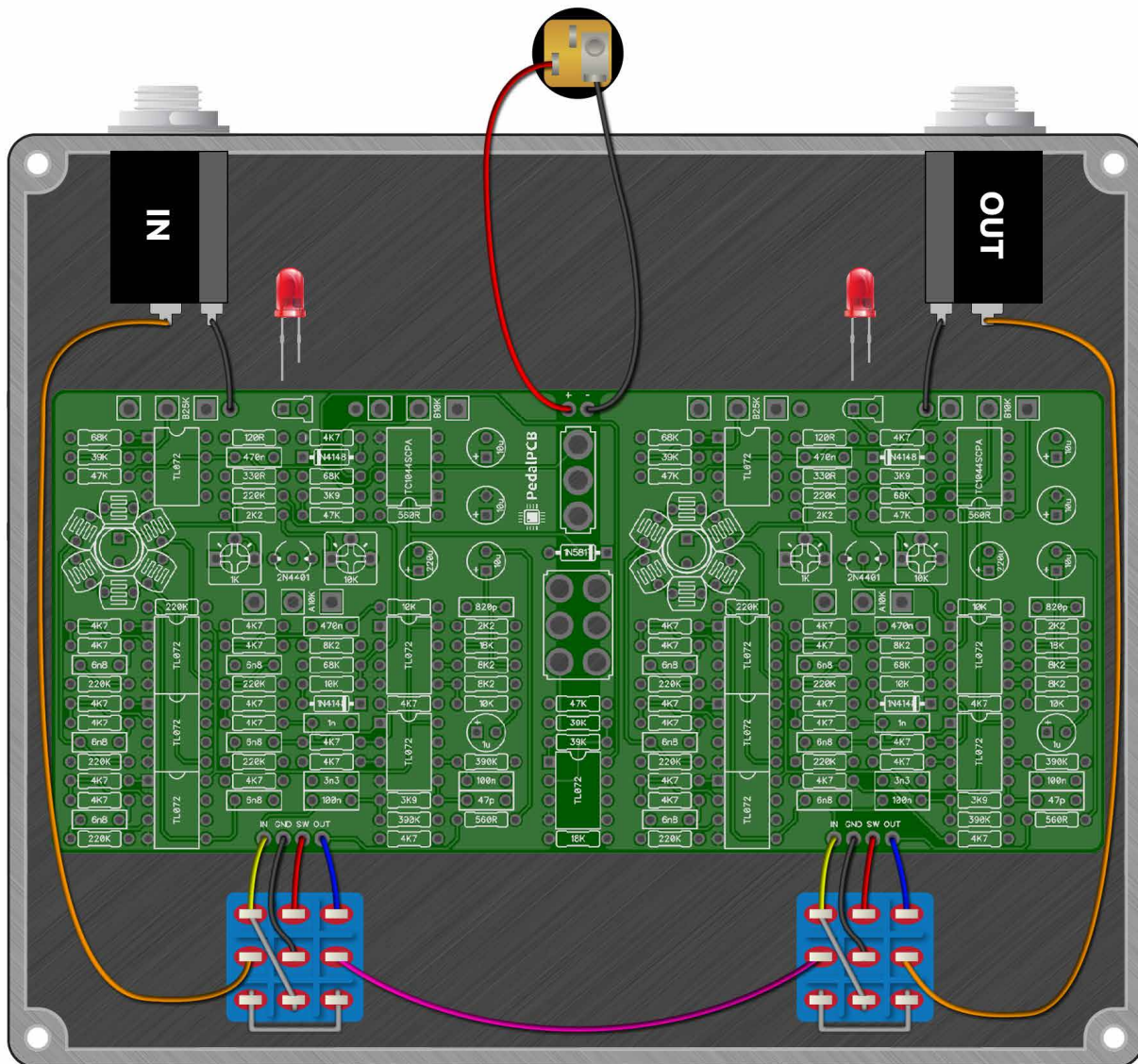
Common offboard components (enclosure, footswitch, jacks, etc) are not listed



Duo-Phase



One Input / One Output (Series Operation)

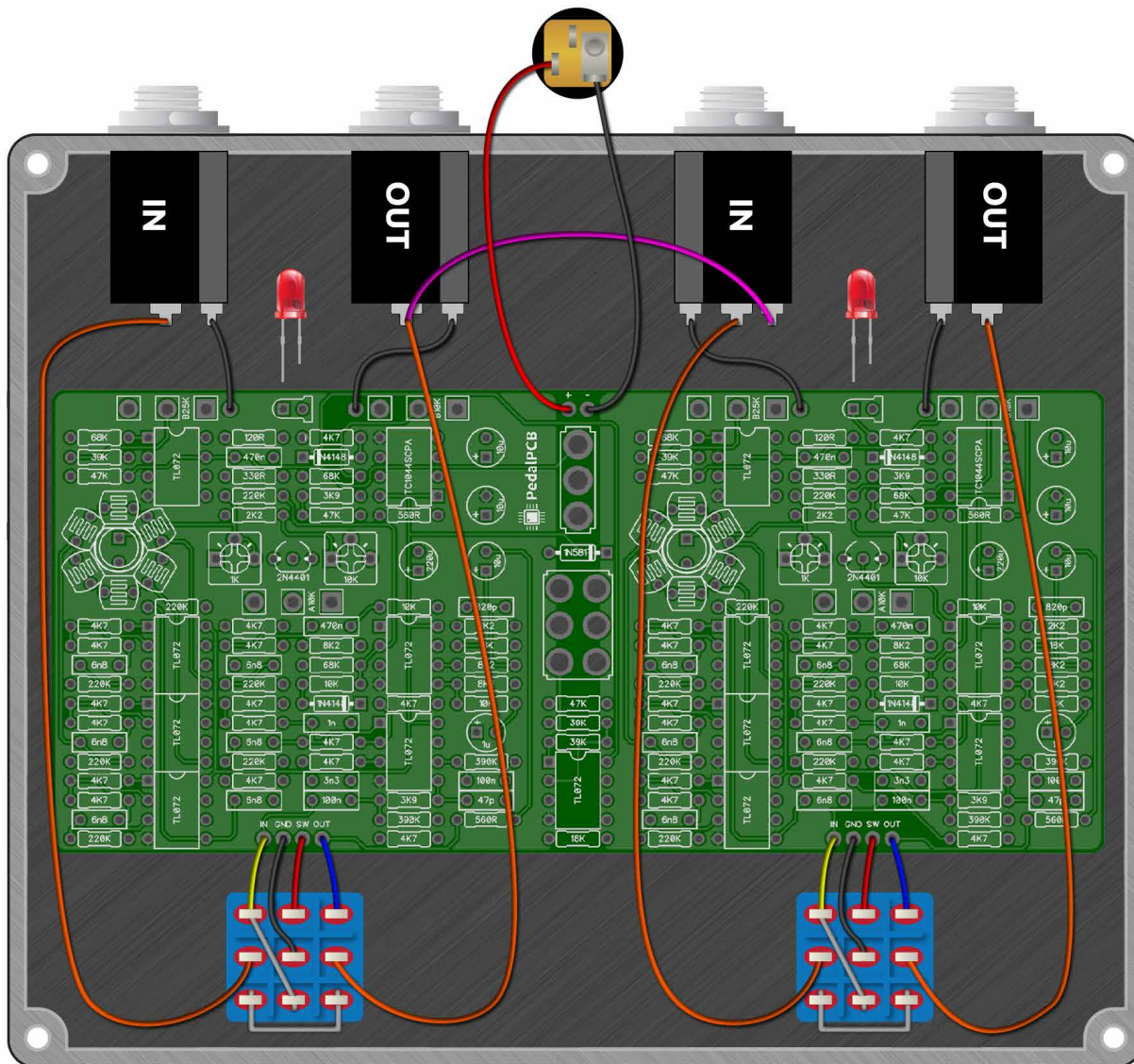


Using this wiring method the pedal will function as a basic “two-in-one” series phaser.

Requirements:

2 x 1/4" Jacks

Two Inputs / Two Outputs (Internally Normalled Series Operation)



Using this method the pedal can function as a series “two-in-one” pedal, or each side can be patched independently in the signal chain by using the corresponding pair of IN/OUT jacks.

When no cable is plugged into the right input the two sides will be internally jumpered by way of the switched input jack.

Requirements:

4 x 1/4" Jacks (**one must be the switched input type**)

