

Southern Lights

One board, two three dirts.



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It contains all the information you need for a successful outcome.



Schematic + BOM



If it works, milk it...

The Southern Drive is almost identical to the 186,282Mps Drive, but we decided to design a new PCB for it rather than have to hack in the two extra diodes required to make the former.

For the Southern Drive follow the standard BOM in black. For the 186,282Mps substitute the parts in blue.

...and the Dark Hill version



Same circuit, another pedal. A few value tweaks and we have something with a lot more crunch, based on EL34-powered British amps post-Plexi. Needs a small hack to get C10 in there, but it isn't worth putting together another board just for that.

C10 needs to piggyback across R7. Just leave a little extra leg showing when you solder the resistor in so you have something to tack it to.

+ leg of C6 goes into the pad marked in red.







The power and signal pads on the PCB conform to the FuzzDog Direct Connection format, so can be paired with the appropriate daughterboard for quick and easy offboard wiring. Check the separate daughterboard document for details.

Be very careful when soldering the diodes and LED. They're very sensitive to heat. You should use some kind of heat sink (crocodile clip or reverse action tweezers) on each leg as you solder them. Keep exposure to heat to a minimum (under 2 seconds). The same goes for the IC if you aren't using a socket.

Snap the small metal tag off the pots so they can be mounted flush in the box.

You should solder all other board-mounted components before you solder the pots. Once they're in place you'll have no access to much of the board. Make sure your pots all line up nicely. The best way to do that is to solder a single pin of each pot in place then melt and adjust if necessary before soldering in the other two pins. If your pots don't have protective plastic jackets ensure you leave a decent gap between the pot body and the PCB otherwise you risk shorting out the circuit.



Recommended drill sizes:

Drilling template

Hammond 1590B

60 x 111 x 31mm

It's a good idea to drill the pot and toggle switch holes 1mm bigger if you're board-mounting them. Wiggle room = good! Pots 7mm Jacks 10mm Footswitch 12mm DC Socket 12mm Toggle switches 6mm



This template is a rough guide only. You should ensure correct marking of your enclosure before drilling. You use this template at your own risk. Pedal Parts Ltd can accept no responsibility for incorrect drilling of enclosures.

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