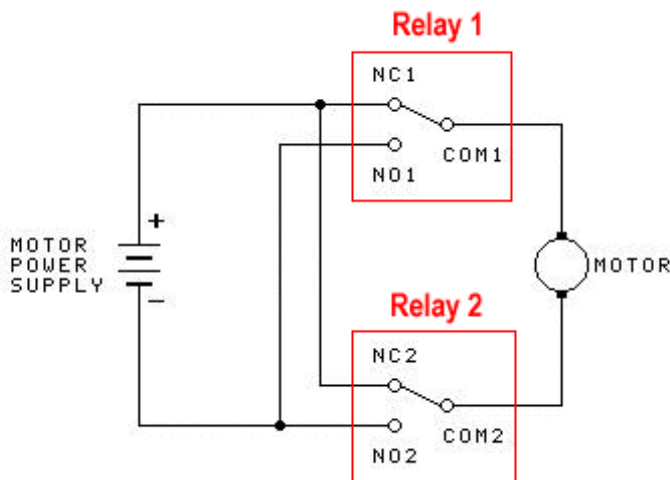


# DC Voltage Polarity Reversal Motor Relay Diagram

The wiring diagram below shows how two SDPT relays can be used to reverse the polarity of a DC supply voltage, making it possible to control the direction of a DC motor.



- Activating Relay1 will make the motor turn in one direction (COM1 will be connected to power supply negative and COM2 to positive).
- Activating Relay2 will make the motor run in the opposite direction (COM1 will be connected to power supply positive and COM2 to negative).
- When both relays are either Off or On, there will be no potential difference across the motor so it will not run.

## Suitable Relay Boards from [QuasarElectronics.co.uk](https://quasarelectronics.co.uk)

We have a choice of 2-channel relay boards that can be utilised in different applications. Here are a few options – see our website for the full range.

### Standard Relay Boards

3156 - 2-Channel Hi/Lo Switched Relay Board - <https://quasarelectronics.co.uk/3156.htm>

8045 - 2-Channel 5A Handy Relay Board - <https://quasarelectronics.co.uk/8045.htm>

CT005 - 2-Channel Isolated IO SPDT Relay Board - <https://quasarelectronics.co.uk/ct005.htm>

These boards could be made to operate automatically using a cyclical relay timer board like those listed at <https://quasarelectronics.co.uk/Category/kits-modules-cyclical-timers>.

### Timer Relay Boards

Cebek I-27 - 2-Channel Sequential Relay Timer, 1 to 180 second - <https://quasarelectronics.co.uk/ci027.htm>

Cebek I-28 - 2-Channel Sequential Relay Timer, 2 to 45 minute - <https://quasarelectronics.co.uk/ci028.htm>

### RF Remote Control Boards

3157 - 2-Channel High Current RF Remote Control Set - <https://quasarelectronics.co.uk/3157.htm>

3180 - 4-Channel RF Remote Control Relay Board - <https://quasarelectronics.co.uk/3180.htm>

### Other Solutions

Alternative solutions for reversing DC voltage can be found at

<https://quasarelectronics.co.uk/dc-motor-reversing-circuits-automatic-remote-control>