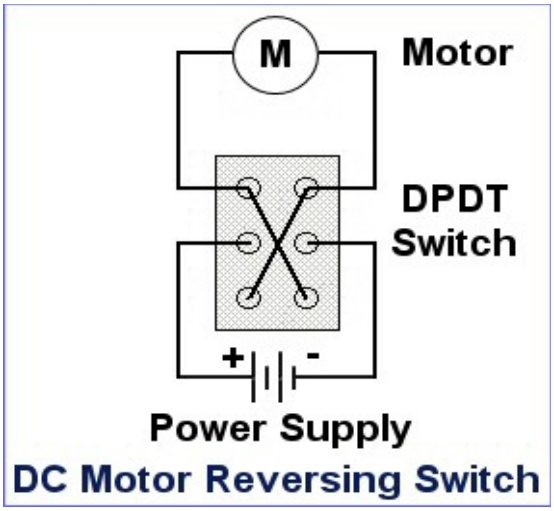
Reversing switch



How can one reverse the rotation of a DC motor, depends on what type of DC motor.

- A brushed DC motor - you simply change the polarity.

- For a 3-phase brushless DC motor, you'd need to change commutation order, this is slightly more complex because how to do that depends on what kind of position sensor is being used. For hobby-type brushless motors, like the ones you'd find in an RC car or quad copter, and other motors that use sensorless control for position detection, you can simply swap any two of the phase connections. For 3-phase brushless DC motors, if it tries to commutate in the wrong order, you can risk damaging the motor or the motor driver.

- For devices that use hall sensors or other low-resolution position sensors, you'd have to also switch one phase connection, and a corresponding hall sensor. Alternatively, you can reprogram the motor driver controller.

- For motors that use absolute position sensors like encoder wheels, you can only do this by reprogramming the motor driver controller.