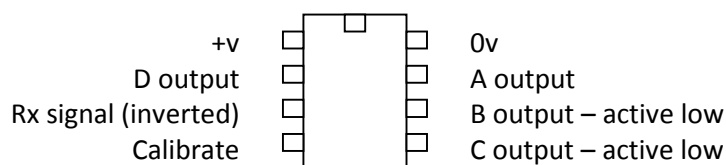


RC SPEED CONTROLLER IC

This is a pre-programmed PIC that will drive an H-bridge (half or full) driver for motor control as shown below. Outputs are programmed specifically for the polarities of the drivers shown.

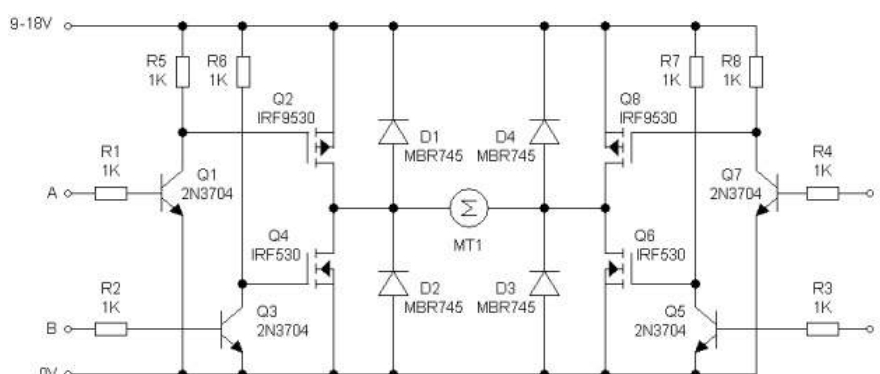
The connections are below.



NOTES:

- The 'Rx signal' input from the RC receiver to pin 3 must be inverted. This can be done with a standard logic inverter or transistor buffer/inverter.
- Outputs B and C are active low. If the IC is missing from the circuit or malfunctions, the outputs B and C will apply a braking action to the motor.
- Maximum voltage for the IC is 6v. Higher voltage will damage the IC.
- The 'calibrate' input should be kept high using a 1K resistor. A brief low pulse on this input will calibrate the IC.. This will take the current input signal – if present – and set that as the centre off pulse time. At first power up, ensure the transmitter and receiver are on and active. The motor may run until calibration is complete.

Suggested driver circuit.



MOSFET transistors can be replaced with higher current types and lower "Ron" values. Ensure polarities are correct.

Thank you for purchasing this product. For more information on the application of this controller, please visit:

http://www.edutek.ltd.uk/Circuit_Pages/RC_Speed_Controller.html