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H-Bridge Motor Control Board



This board will allow you to run a DC motor forward or in reverse by using 2 TTL signals - one for forward, one for reverse. Will control motors that use up to 30V and 5A (with adequate heat sinking). There are 2 pushbuttons on the board that you can use manually control the motor, too.

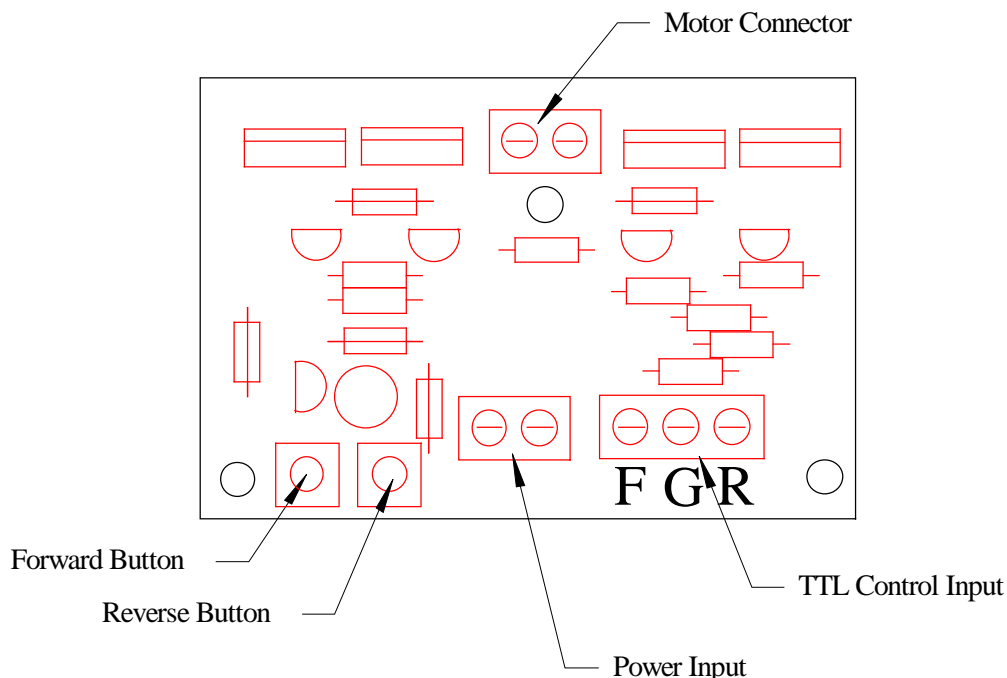
Miscellaneous Information:

This board is based on the original design by Bob Blick.

(<http://www.bobblick.com/techref/projects/hbridge/hbridge.html>)

It uses 2 TTL signals – one for each direction. The terminal marked “G” gets connected to the DAC ground pin and the terminals marked “F” and “R” get connected to two of your digital outputs on your DAC. When the appropriate terminal gets a high TTL signal, the motor will move in that direction. It will move only as long as the TTL signal is provided. On the board are two small pushbutton switches. This allows the manual control of the motor without the use of TTL signals. If you would want to use limit switches, use normally closed limit switches to break the TTL signals when activated. Please see the web site listed above for more information on the use and capabilities of this board.

Board Diagram:



Specifications:

- Input Power: 12 VDC
- Output (A): 5A max
- Board Dimensions: 2.6 x 1.75 inches

Disclaimer:

These boards are designed for educational use only. In no circumstances should these circuit boards be used in critical situations where failure could mean injury or property damage.

Please check out the other circuit board designs that I offer at www.SimpleCircuitBoards.com. Here are just a few examples:

- Thermocouple Amplifiers
- 8-Bit Digital to Analog Converter
- DC to DC Converters
- TTL-Driven Relay Boards – 1 Amp and 10 Amp
- Voltage Amplifier Board
- Water Level Monitors and Control Boards
- Motor Control Boards
- Programmable Relay boards
- Programmable Servo Controllers

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