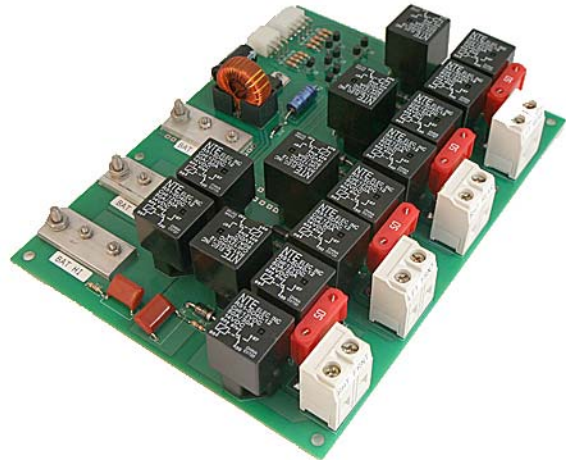




## HEAVY DUTY MOTOR CONTROL (HDMC)

- Low Cost control of up to 4 motors
- Ideal for battery powered systems
- Bi-directional h-bridge relay circuit
- Amperage up to 50A depending on relay
- Automotive style fuse for all circuits
- Relays in sockets for easy swap out
- Operation to 60v
- Connection for high and low DC levels
- Terminal blocks accept up to 6 awg wire
- Digital inputs for switches or control
- 12v regulated supply for auxiliary circuits



### FUNCTIONAL DESCRIPTION

The HD Motor Switch is designed for applications where low cost, on-off, bi-directional motor control is required, with operating voltages up to 60V. The design uses relays in an h-bridge configuration with an on-off relay in the ground leg. Applications range from construction equipment to battery powered watercraft where precision speed control is not required.

Two DC voltage connections are provided to support dual speed requirements. The motors are connected through heavy duty terminal blocks that support up to 6 awg wire with currents up to 50A depending on relay selection. The relays plug into sockets with a standard footprint available from several manufacturers. Each circuit is protected by a plug in automotive style fuse. The board can be configured for 1-4 motors.

A 12V regulator circuit provides coil side power for external control circuitry. External circuits can be simple toggle switches or sophisticated microprocessor circuits. Connection is through connectors with the relay coils driven by on-board transistor circuits.

Customized control and relay circuits can be provided to qualified OEM customers.