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# MD12HDSR Installation Instructions

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## Application:

The **MD12HDSR** is a Heavy Duty Motor Speed Control specifically designed for 12 Volt PMDC (Permanent Magnet DC) motors, rated up to 2/3 h.p.

The Wind and Unwind function is performed electronically eliminating the use of mechanical double pole / double pole switch to handle the high motor current, eliminating contact arcing and contact fatigue.

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**Mounting:** Remove the nuts from the mounting studs and use these nuts, with your 1/4" lock washers to secure the box to your mounting site. Grounding the control is not required.

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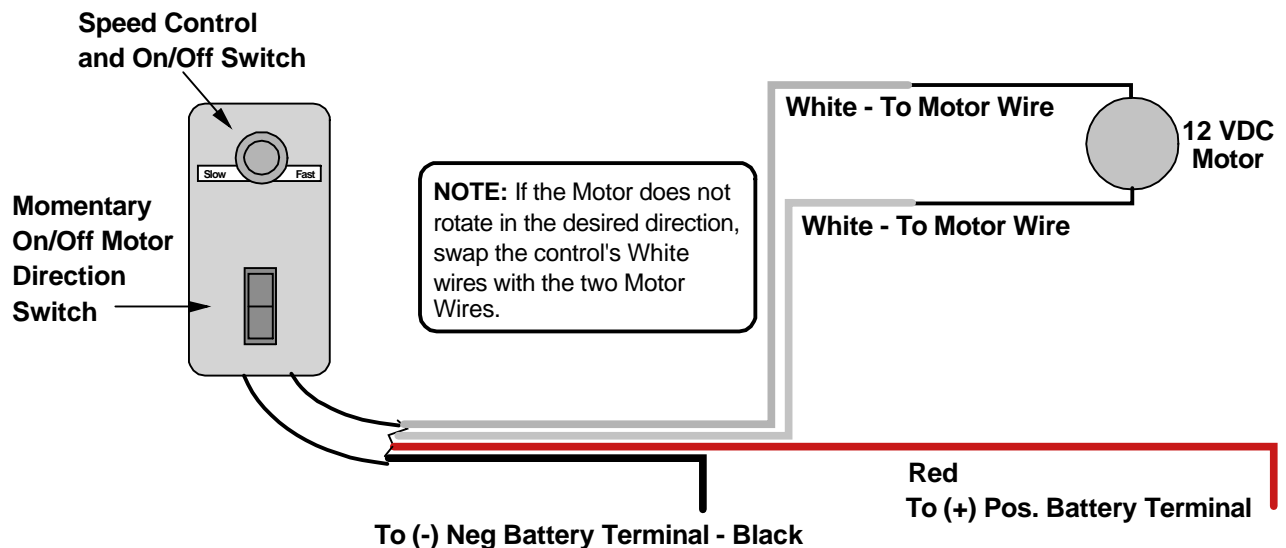
## Wiring Instructions:

The Control's Red wire and Black wire must be connected directly to the vehicle battery with 10 gauge wire if less than 8 feet to the battery. 8 gauge wire if 8 to 20 feet. 6 gauge if over 20 feet to the battery.

Grounding the Black wire to the truck body is too high resistance and will cause a control failure.

If using ring terminals, use the appropriate crimper to acquire a secure crimp and/or solder the barrel of the connector. Use dielectric grease for all bolt on electrical connections.

**CAUTION:** The Motor wires must not be connected to anything on the vehicle. They are to be connected to the Speed Control wires only.



## Warranty:

The control is warranted by the manufacturer to be defect free from faulty materials or workmanship. If any defect is found within the 1 year Warranty period, the company will repair the equipment without charge for materials and labor if it is determined to be a workmanship problem or faulty material. If it is determined that the cause of fail was due to poor battery connections, or mis-wiring, we will provide a repair quote prior to repairing.