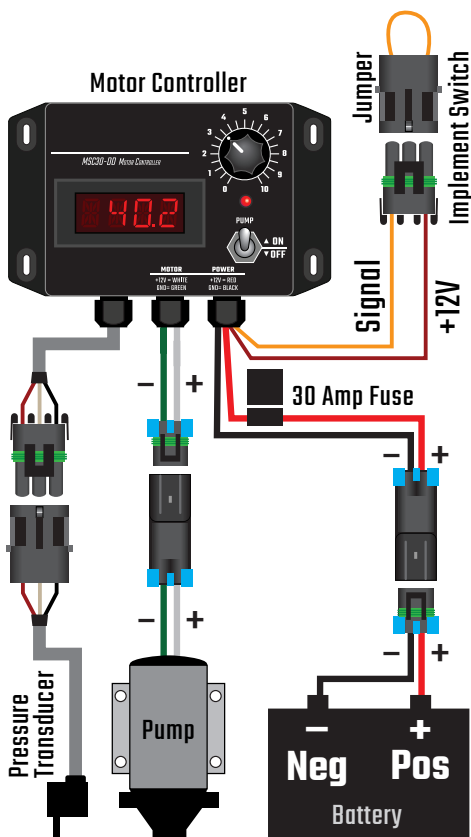


DIGITAL DISPLAY CONTROLLER

12V MOTOR CONTROL UNIT

MSC30-DD Motor Controller Wiring Diagram



INSTALLATION & SETUP INSTRUCTION

- Mount the motor control unit in a location that the power switch can be accessed and the digital display can be seen.
- Connect wiring using description from below:

A) Connect 2 pin Metri-Pack connector with the **RED** and **BLACK** leads to the battery:

NOTE: When extending wires use 12GA wire or recommended power cables from your dealer.

NOTE: Do not power the unit from a battery charger.

NOTE: Do not hook to power strips or convenience plugs.

Wiring Color Code to **Battery:**

12 gauge Red = 12V

12 gauge Black = Ground

**** Ground must be hooked up to BATTERY, NOT to the frame ****

B) Connect 2 pin Metri-Pack connector with the **WHITE** and **GREEN** leads to the 12V motor:

NOTE: When extending wires use 12GA wire or recommended power cables from your dealer.

Wiring Color Code to **Motor:**

12 gauge White = 12V

12 gauge Green = Ground

**** Ground wire on the pump must be hooked up to the Ground wire from the controller, NOT to the frame ****

- Optional power cables and extension cables are available.

C) Connect the implement switch.

- Disconnect the jumper plug and connect the 3-pin Weather-Pack connector to your implement switch.
- The **red** wire is positive 12V output and the **orange** wire is the Master / Signal wire.
- Applying 12V power from an external switch to the **ORANGE SIGNAL WIRE ONLY** can be used as a remote turn on for the unit.
- Optional remote style switches are available.

NOTE: If you are not using a remote switch, use the supplied jumper.

NOTE: Supplying power to the +12V wire **WILL CAUSE UNIT DAMAGE.**

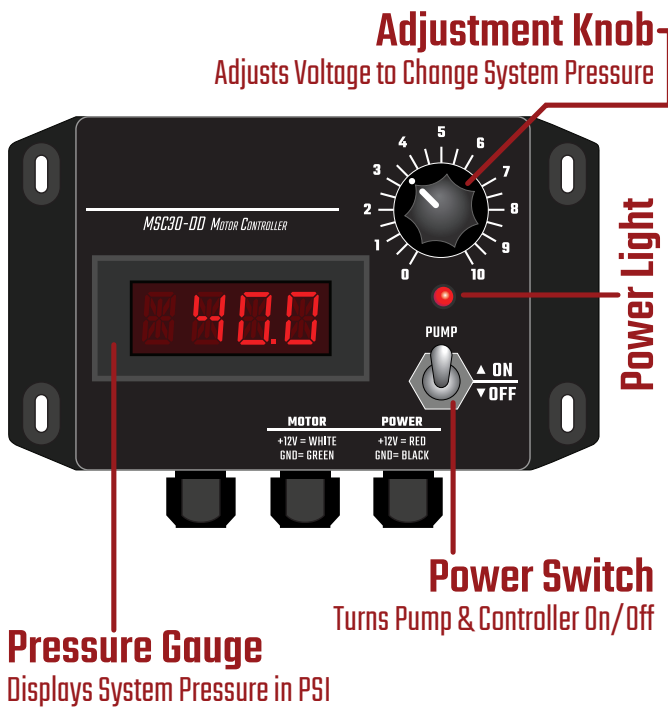
NOTE: Grounding the +12V or Signal wire **WILL CAUSE UNIT DAMAGE.**

D) Connect the 3 Pin Weather-Pack connector to the Pressure Transducer cable.

- Connect the Pressure Transducer into a 1/4" OD hose.

NOTE: Be careful when plugging the hose to the Pressure Transducer to avoid snapping off the inlet.

- Optional extension cables are available.



Operation of the Motor Control

When it is time to check or test your motor control:

- Turn ON the power switch to the motor control.
The display will light up indicating it has correct power.
- If a remote switch is being used, make sure that it is activated or on.
- The Red light above the power switch will light when power is being supplied to the pump.
- Turn the adjustment knob until desired pressure is reached.

Trouble Shooting

If the unit does not turn on:

- Check if the display lights up, if it is not the unit is not getting correct power.
- Check if the implement switch jumper is in place. If using an implement switch, make sure it is activated.
- Check wiring for bad connections.
- Check wiring for correct polarity of battery connections.
- Check the fuse.

NOTE: If power wires are reversed to the battery it will not damage the control unit or the motor. It may blow the fuse if not hooked up correctly.

NOTE: If the White and Green wires (Pump wires) are connected to the battery the motor control unit **WILL BE DAMAGED**.

If the pump will not run:

- Check if the red light is on above the power switch. If it is not, the remote switch is not activated.
- Check the remote switch.
- Check wiring for bad connections.
- If remote switch is not being used, make sure the jumper is in place and properly connected.