

Control All Wireless.

RF-600DC Wireless Variable Speed DC Motor Controller

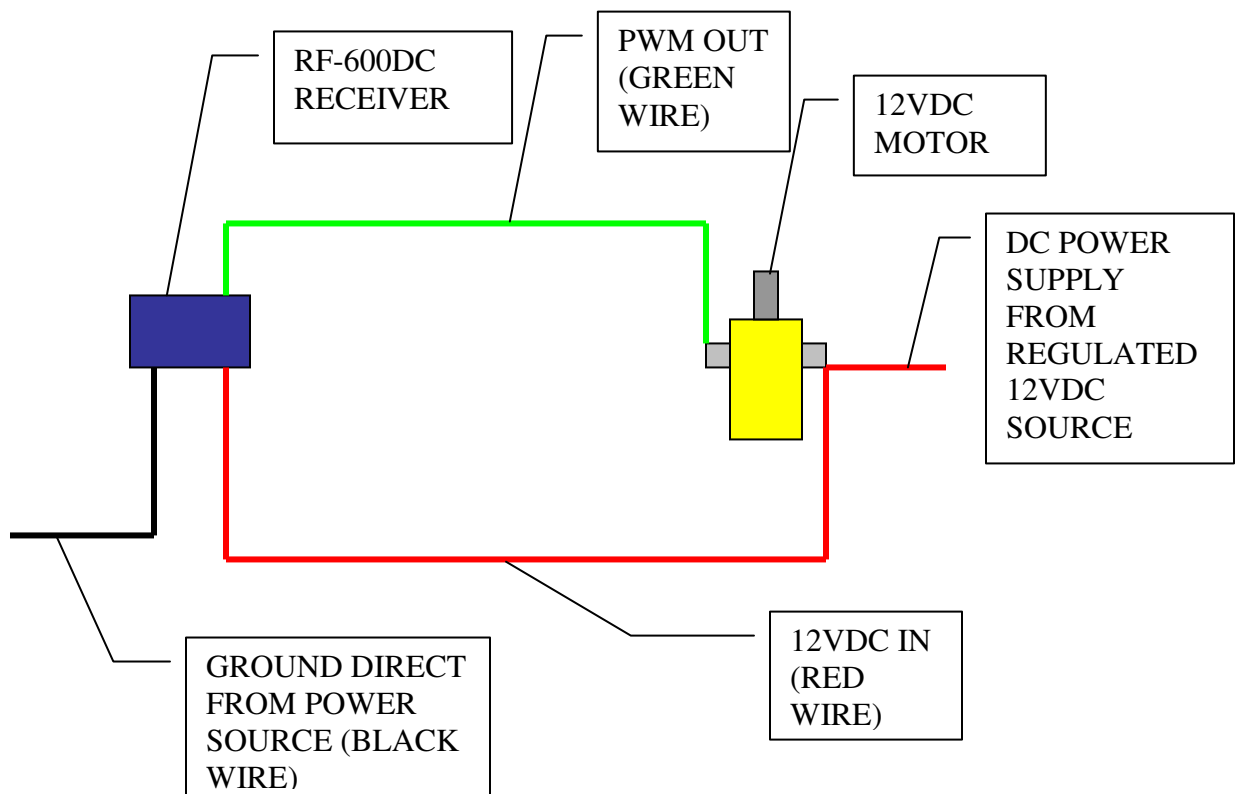
How it Works:

The RF-600DC Wireless DC Motor Controller provides RPM control for a single, 2 pole DC motor that can output 180 amps for up to 5 seconds and a continuous amperage of up to 80 amps. The speed or RPM control is done by providing the user 5 outputs, approximately 1/5 of the maximum motor RPM. The RF-600DC also incorporates a full RPM feature that runs the motor full speed for 6 seconds and then automatically shuts off and an E-Stop.

To protect the motor and electronics, the RF-600DC has built-in safety circuits. These include:

- Automatic shut down if motor is locked up. How this is done is if the receiver senses a current draw of more than 180 amps for more than 10mS the unit will shut down from 1 to 30 seconds.
- Automatic shut off if the current draw does not drop below 80 amps after 5 seconds. Once again, the receiver will shut down for 1 to 30 seconds.

Typical Wiring Connection Diagram



button. The red LED will begin to flash for 15 seconds. Take the Transmitter while the red LED is flashing and firmly depress the ON button within the 15 seconds. Now the unique address of the Transmitter will only be recognized by that matched receiver. The red LED will automatically shut off after 15 seconds. To make sure the programming procedure was successful, depress any of the Transmitter buttons and the red LED in the receiver should light. Re-install the cover noting drain hole position and re-connect the PWM (green wire) to the motor. The RF-600 is now ready to operate the DC motor.

Specifications:

- Up to 180 amp output for up to 5 seconds.
- Continuous output of up to 80 amps.
- 5 motor speed outputs of approximately 1/5, 2/5, 3/5, 4/5 and 5/5ths of motor current draw.
- Built in E-Stop using OFF button.
- Built-in over current safety protection. If a lock-up condition occurs at the motor causing the motor to draw more than 200 amps the unit will automatically shut down and must be turned back on using the ON button after the circuit temperature drops to an acceptable range taking 1 to 30 seconds. **Warning:** If this situation continues to re-occur the operator needs to check for reasons why the motors will not turn.