

625DC MANUAL WITH VIBRATOR OPTION

625DC1 typical use is for a SINGLE MOTOR SALT SPREADER WITH VIBRATOR CONTROL.

NOTE TRANSMITTER **HAS** BEEN PROGRAMMED TO THE RECEIVER SEE PAGE 4 FOR PROGRAMING INSTRUCTIONS AND TROUBLESHOOTING.

For use with 12-volt DC only

625DC1 Wireless Variable Speed DC Motor Controller

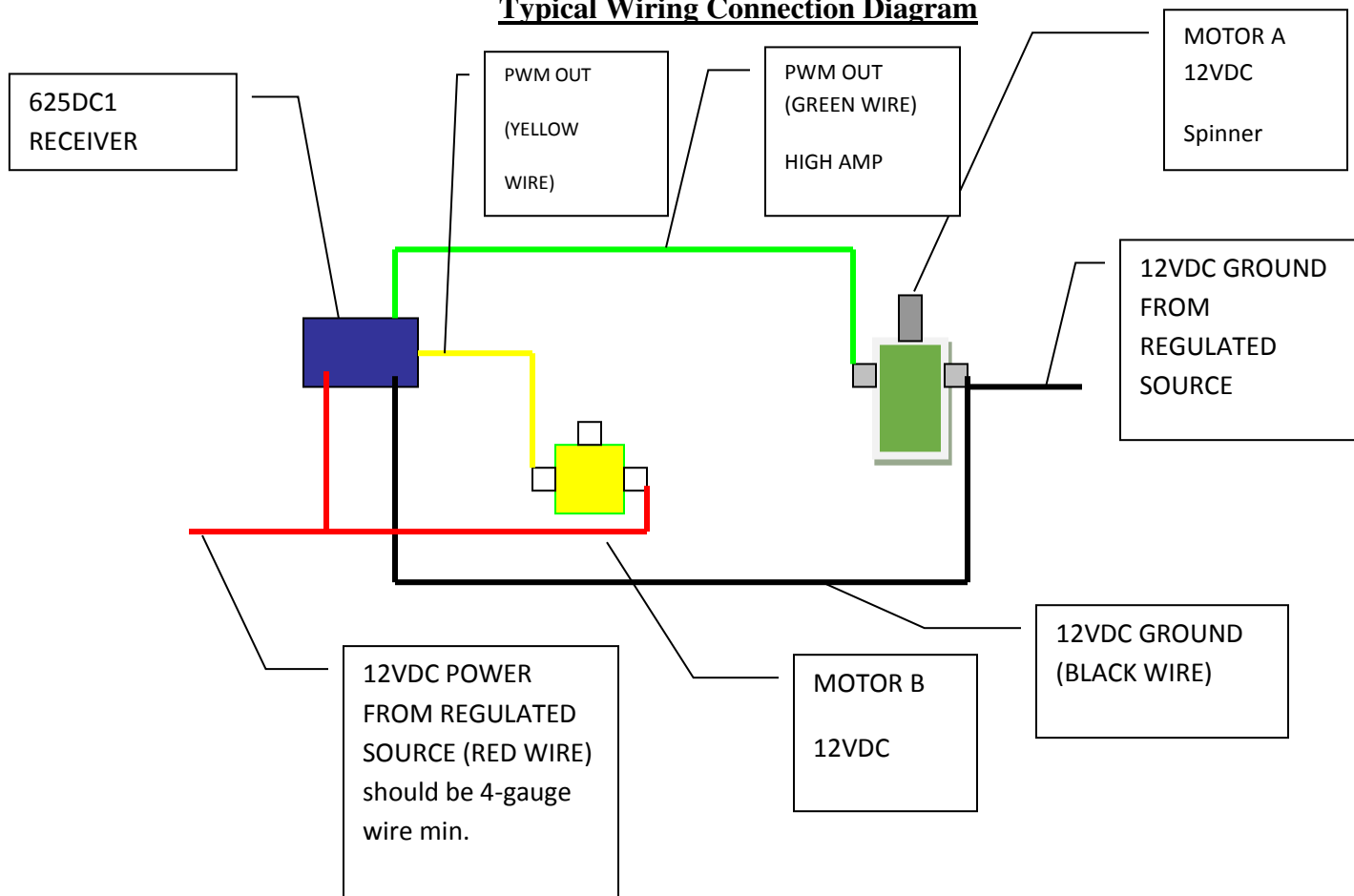
How it Works:

The 625DC1 Wireless DC Motor Controller provides RPM control for a single, 2 pole DC motor that can output up to over 1500 amps for up to 1 seconds and a continuous amperage of up to 75 amps. The speed or RPM control is done by providing the user 4 outputs, approximately 1/4 of the maximum motor RPM. The 625DC1 also incorporates a on off vibrator function or can be used for a light etc....

To protect the motor and electronics, the 625DC1 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 100 amps at start up for more than approximately 1000mS, the unit will shut down from 1 to 30 seconds.
- Automatic shut off if the current draw does not drop below 75 amps after 6 to 8 seconds. Once again, the receiver will shut down for 1 to 30 seconds.

Typical Wiring Connection Diagram



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We highly recommend the use of Alumiconn #18 - #10 awg connectors only. Available at snowplowsplus.com or controlallwireless.com

Do not use the 7 prong plug on your truck as power and ground for this unit. You need to run a minimum of 6-gauge wire (power and ground) directly from your battery to the unit.

Connect the red wire from the receiver to the power source and to 1 post on the vibrator motor.

Connect the black wire from the receiver to the ground source and to 1 post on the spinner motor.

Connect the yellow wire from the receiver to the open post on the vibrator

Connect the green wire from the receiver to the open post on the spinner motor.

Transmitter operation- Note button 8 is a on off single button for the spinner only.

*****User must maintain good, clean connections for proper operation and to avoid damage to the receiver and void the warranty*****

Programming Transmitter to Receiver:

The following are the step by step procedures for setting the unique address between the transmitter and receiver or adding extra transmitters to the receiver (up to 40 transmitters).

[Video link](#)

1. On the backside of the Transmitter, use a paperclip and insert it in the hole next to the clear blue window. Once the programming button is depressed, a blue LED will begin to blink for 15 seconds. Flip the Transmitter over and firmly depress all 8 buttons starting with the ON button within 15 seconds. Now the Transmitter has acquired a 1 in 16 million address. **WAIT UNTIL THE BLUE LIGHT STOPS BLINKING BEFORE YOU CONTINUE.**
2. Next step is to remove the receiver box cover noting the drain hole positions in the cover. Hook up the Power (red wire) and Ground (black wire) to a 12VDC power source. Inside the box next to the red LED depress the black programming 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.

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OPERATION:



**625DC1 blue ringed
TRANSMITTER not actual**

Shown above is a typical transmitter for wireless operation of a 12VDC motor. The button functions are as follows:

ON VIBRATOR This button turns the vibrator on

OFF VIBRATOR This button turns the vibrator off

ON/OFF shuts down the spinner only

Numbered buttons- speed control

****** It is recommended that when the DC motor/s is under high loads that the control first be started at medium to high speed for the first 1 to 5 seconds of operation to avoid damage to the motor or control and may void the warranty******

END 625 DC MANUAL