

625DC MANUAL WITH VIBRATOR OPTION

625DC typical use is for a SINGLE MOTOR SALT SPREADER WITH OPTIONAL VIBRATOR .

NOTE IF TRANSMITTER NEEDS TO BE PROGRAMMED TO THE RECEIVER SEE PAGE 4 FOR PROGRAMING INSTRUCTIONS AND TROUBLESHOOTING.

For use with 12-volt DC only. **MUST USE INLINE FUSE/BREAKER BETWEEN BATTERY AND RECEIVER POWER.** Use minimum of 6 gauge wire with quick disconnect. Never jump start or put a charger on the vehicle while power is connected to the receiver. This will permanently damage the receiver (no warranty)

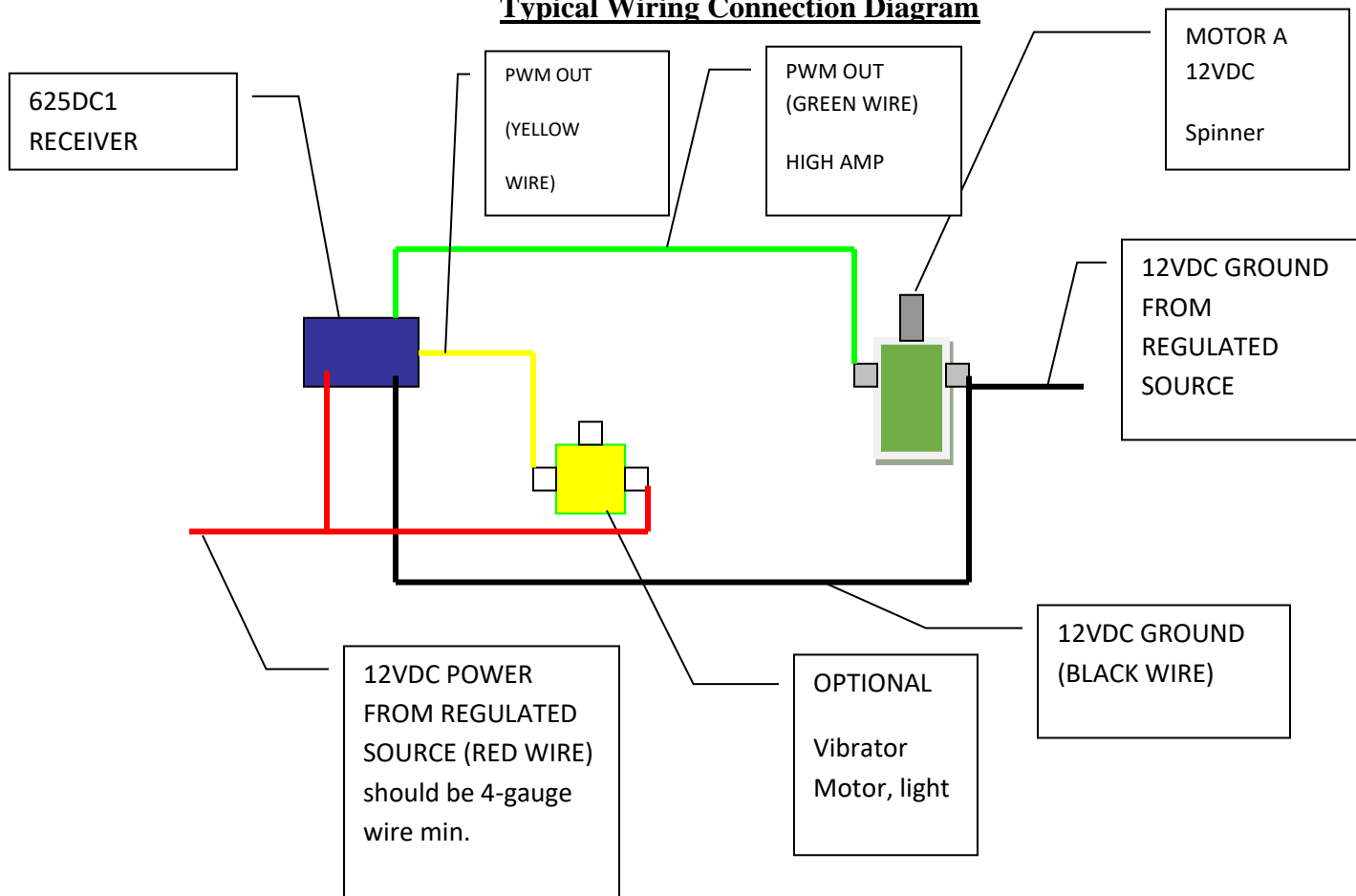
How it Works:

The 625DC Wireless DC Motor Controller provides RPM control for a single, 2 pole DC motor that can output up to over 60 amps. The speed or RPM control is done by providing the user 3 outputs, approximately 1/3 increments of the maximum motor RPM. The 625DC also incorporates a on off vibrator function or can be used for a light etc....

To protect the motor and electronics, the 625DC 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. Investigate the problem and do not continue to override the control or permanent damage will be caused.

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 IF USING AN ACCESSORY. You need to run a minimum of 6-gauge wire (power and ground) directly from your battery to the unit.

MUST USE INLINE FUSE/BREAKER BETWEEN BATTERY AND RECEIVER POWER.

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, proper wire sizing, for proper operation and to avoid damage to the receiver and void the warranty We have no control over the method the end user may take to install our controllers. For any warranty consideration, all units must be sent back for inspection and testing. Burnt boards of any type means that failure to follow the proper installation has occurred. We are sorry but with any type of electronics, care needs to be taken and directions need to be followed

Note: certain non FCC approved accessories and LED lighting may cause interference with wireless units.

Make sure your spinner/augers turn freely before attempting operation

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](#)

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 keychain remote over and push and release each button individually. **WAIT UNTIL THE BLUE LIGHT STOPS BLINKING BEFORE YOU CONTINUE.** Next step is to remove the receiver box cover noting the drain hole positions in the cover. Inside the box next to the red LED depress the black programming button. The red LED will begin to flash for 15 seconds. Push and release any single button and release on the keychain remote. The red LED will automatically shut off after 15 seconds. You are now programmed.

READ***Troubleshooting.**

DO NOT CHANGE YOUR TRANSMITTER BATTERY UNLESS YOU HAVE FOLLOWED PROPER TROUBLESHOOTING.see transmitter programming above. Always test your functions before loading your spreader so you can visually see and hear the different rpm functions. Make sure your discharge chutes are open and baffles adjusted to the material you are using.

Keep transmitter out of extreme cold or warm up before using.

To verify power to the receiver remove cover press the black button if it blinks red there is power to the unit.

Keep power/ ground connections clean and tight, use dielectric grease, seal backside of connections.

Always disconnect power and ground cable when not in use

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

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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
speed controls slow med fast and blast

****** 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******

Control trouble shooting, red light blinks dim on receiver, bad power or ground being supplied to unit power wire needs to be at least 6 gauge.

Spreader works when empty but not when full- Power wire being supplied for spreader is to small use at least a 6 gauge wire

Limited 90 day warranty on electronics see wireless warranty on the website for details

Optional on some applications for reference only

Relay to be used with higher amp latching circuits. Use a typical sealed 40/60 automotive relay available at most auto parts stores or from us.

A relay is basically a switching device. The difference is that it can handle more amperage than a typical switch allowing a typical switching device to power high amperage devices.

1. **12-volt power from battery connects to pin 30**
2. **Battery ground connects to pin 85**
3. **Power in from activation switch or remote connects to pin 86**
4. **Pin 87 connects to device that needs to be operated. Example valve, motor, lights....**

Note wire that connects to pin 30 must be as large or larger than the device you need to operate that's connected to pin 87

You should fuse or diode protect pin 85 and 87 to prevent back feed.

87a will have power when the unit is idle. This pin is not typically used in applications.

