

# Installation Instructions

## 3011864 TGS Controller

Serial Number 26000 and higher.

### IMPORTANT!

Before installation, check your truck's battery and alternator using load tester. Do not proceed to installation if truck electrical system does not function properly!

**Note:** Always disconnect battery before attempting to install electrical components on your vehicle.

1. Mount the controller in a convenient location in the truck cab. It is recommended not to mount the controller directly in front of heat vents. Allow ample air space around controller.

### CAUTION!

Do not mount controller in the way of air bag deployment!

2. Route both wire harnesses into truck cab through firewall (it maybe necessary to drill holes). Insulate hole to avoid water leaks. Insure no wires are nicked or damaged during installation.

3. Connect the 4-pin connector on the wire harness to the control box.

4. Connect the 2-pin connector on the power cable to the control box.

5. Lay out a path for the power cable to the battery, use quick ties to secure power cable.

**DO NOT CONNECT TO BATTERY AT THIS TIME!**

6. Lay out path for wire harness to the rear of the vehicle. Stay clear of the exhaust system. Excess heat can damage the wire harnesses. Use quick ties to secure harness to underbody.

7. Connect the wire harness to the motor and vibrator (if equipped).

8. Connect red wire to battery positive terminal. Connect black wire to battery negative terminal.

**THIS IS A WIRE GROUND ELECTRICAL SYSTEM! NO CONNECTIONS TO TRUCK'S FRAME OR BODY ALLOWED!**

In trucks with dual battery systems always connect power cable to primary battery (larger capacity/ truck starting battery).

### Controller Operation

1. To start spreader, be sure that truck engine is running to prevent battery from discharging. Flip power switch into ON position. Controller switches will get illuminated. Spreader motor will start with full speed for short time and then drop to the speed settings selected.

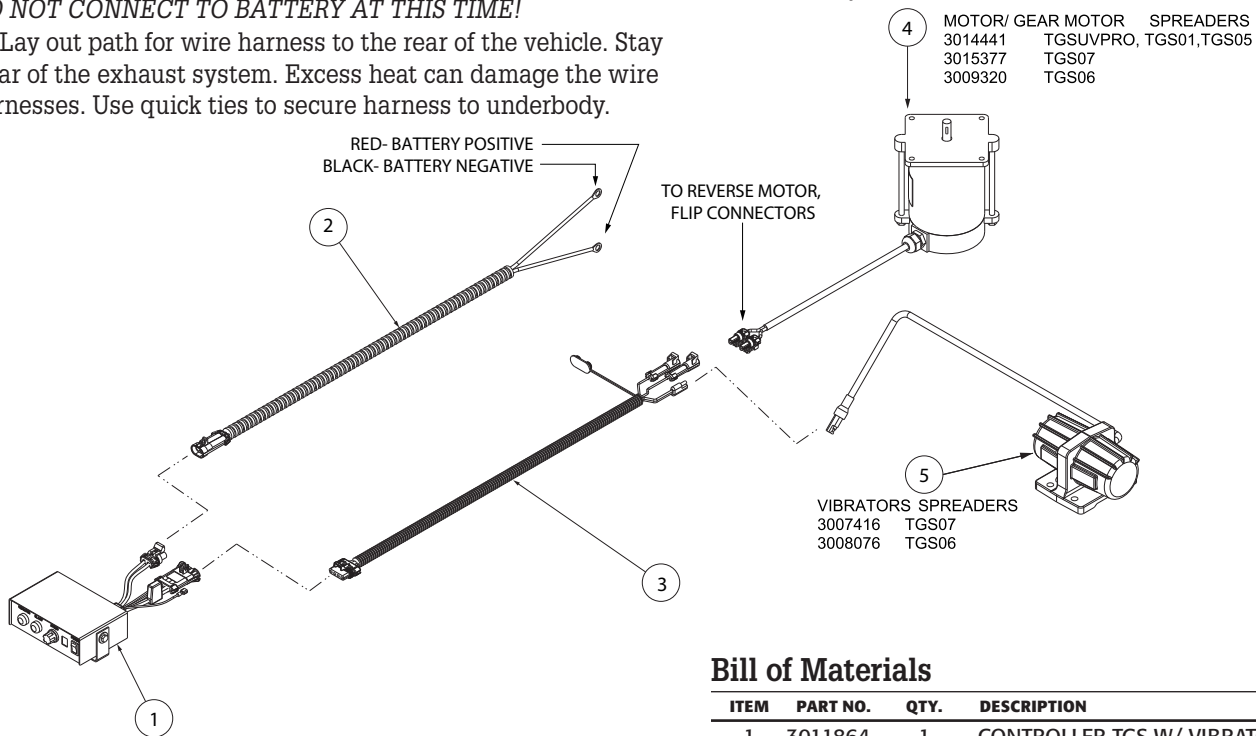
2. To adjust speed simply rotate speed knob until desired speed number will be achieved.

3. Push Blast button if full motor speed is needed. Blast is momentary function, releasing Blast button will return controller into original speed setting.

4. To activate vibrator depress vibrator button for about 2 seconds. To stop vibrator repeat same action.

5. To turn controller OFF, simply flip power switch into OFF position.

6. If battery voltage drops below 10 VDC, controller shuts off automatically.



### Bill of Materials

ITEM	PART NO.	QTY.	DESCRIPTION
1	3011864	1	CONTROLLER TGS W/ VIBRATOR SWITCH
2	3008615	1	WIRE HARNESS, POWER TGS
3	3008620	1	WIRE HARNESS MAIN W/ VIBRATOR, TGS
4	3014441	1	MOTOR 12 VDC, TGS
5	3007416	1	VIBRATOR 200 LBS 12 VDC for TGS07
5	3008076	1	VIBRATOR 200 LBS 12 VDC for TGS06

## Controller Codes

	<b>SPEED DISPLAY</b>	<b>VIBRATOR SWITCH</b>	<b>MOTOR, WIRE HARNESS, CONTROLLER STATUS</b>	<b>ACTION REQUIRED</b>
1	⌋		Controller out of calibration	Replace controller
2	E		Internal error.	Turn controller OFF for 30 sec. Turn controller ON. If reboot doesn't work, replace.
3	L		Ignition wire connected to 12 VDC source, positive harness wire is disconnected from battery	Connect red wire to battery
4			Truck's battery is low.	Check truck electrical system
5	F		Wire harness positive wire short to truck's body/ frame. Motor internal fuse (40 AMP) blown.	Find and eliminate short circuit. Replace fuse.
6	H		Wire harness motor wires short to each other (red to black).	Find and eliminate short circuit.
7	U		Short circuit in vibrator or in wire harness connected to vibrator. Outside fuse (30 AMP) is blown. Vibrator disconnected.	Find and eliminate short circuit. Replace fuse. Connect vibrator.
8		Light blinking	Internal vibrator fuse blown.	Find and eliminate short.
9	Speed number blinking, motor turns slow or stopped.		Motor is overloaded. Motor wires in wire harness shorted to each other.	Clear jam. Find and eliminate short.
10	P		No contact in spinner motor circuit.	Find and correct broken connection.
11	C		Controller temperature over 160F.	Turn OFF controller. Reposition controller for better temperature control.

### WARRANTY

Buyers Products Co. warrants all truck/trailer hardware manufactured or distributed by it, to be free from defects in material and workmanship for a period of one year from date of shipment. Parts must be properly installed and used under normal conditions. Any product which has been altered, including modification, misuse, accident or lack of maintenance will not be considered under warranty. Normal wear is excluded. The sole responsibility of Buyers Products Co. under this warranty is limited to repairing or replacing any part or parts which are returned, prepaid, and are found to be defective by Buyers Products Co. Authorization from Buyers Products Co. must be obtained before returning any part. No charges for transportation or labor performed on Buyers' products will be allowed under this warranty.