# Tailgate spreaders

**TGSUVPROA**

**TGS02**

**TGS03**

**TGS06**

**TGS07**

# A. CONTROLLER

## 3011864B

### 1 Error codes

**A "J" CODE (Jam detected)**

1. When the jam code comes up on the spinner it is usually material related, with the material being too heavy.
2. The next step if the material is not too heavy would be to check the strength of the motor. Apply power directly to that and determine if that will spin at the high speed.
3. If you are unable to clear the jam, try another controller. This may be a controller giving a false indicator.

**B "F" CODE (Blown fuse)**

1. The F code will appear on the controller display.
2. On the bottom of the controller are several screws. You want to loosen the four innermost screws to gain access to the inside of the box. Once inside, you will find the 40 amp fuse. This is just a regular 40 amp automotive fuse.

**C "L" CODE (Low voltage)**

1. If the truck is diesel, ensure that all connections for the spreader are made on the primary battery. The controller will send false signals or error codes if this is not on the primary battery.
2. Verify that the truck is providing the controller 12 volts with the truck running.
3. Verify that the controller has 12 volts coming out of it.
4. Replace the controller if there are less than 12 volts coming out of the controller.

**D "H" CODE (Short circuit)**

1. Inspect the wires on the wire harness for a cut.
2. Verify that there is no corrosion or damaged terminals on the wire harness or controller.
3. If the wires look good and no short is found, put power directly to the pigtail of the motor with a secondary power source such as a battery and verify that the motor is not the issue. The motor will run at the high speed. If the motor does not power up then there is a short within the motor.
4. If the motor runs, then make that same connection where the wire harness meets the controller in the cab. If the motor does not run then the short is in the wire harness.
5. If you are unable to find a short as the controller is indicating, then replace the controller.

**E "P" CODE (Motor overload)**

1. Verify that the material is able to move or flow freely
2. Is the material jammed in any part of the spreader
3. Look at the bearing and verify that it is not seized or binding
4. Ensure that the connection to the motor is good.
5. Make sure that the motor / auger are rotating the correct direction
6. Verify that the pins are connected and not bent in the wire harness
7. Inspect the wires on the wire harness for a cut.
8. If the wires look good and no short is found, put power directly to the pigtail of the motor with a secondary power source such as a battery and verify that the motor is not the issue. The motor will run at the high speed. If the motor does not power up then there is a short within the motor and the motor will need to be replaced.
9. If the motor runs, then make that same connection where the wire harness meets the controller in the cab. If the motor does not run then the short is in the wire harness.

F **"C" CODE (Controller is over temperature)**
1. This is indicating that the controller is over temperature. The controller may be mounted near the heating vent for the cab.
2. Verify that the amperage of the motor is less than 54 amps under normal load
3. Look for corrosion on the wire harness

G **Vibrator switch blinking**
1. The vibrator fuse is blown.
   A. On the bottom of the controller are several screws. You want to loosen the four innermost screws to gain access to the inside of the box. Once inside, you will find the 40 amp fuse. This is just a regular 40 amp automotive fuse.
2. Look at the vibrator motor and ensure that it is connected to the wire harness. If the connections appears to being good, check for corrosion in the plug or a bent pin.

# B. AUGER

## 1 Not rotating

A Verify that the sheer pin did not break

B Check the bearing to ensure that it is freely rotating
1. Remove the bearing to properly inspect
2. Remove the motor / gearbox to inspect for issues

## 2 Rubbing against the trough

A The auger may be bent and out of round

## 3 Rotating backwards

A Check the connection from the auger motor into the wire harness. Flip the connection of the wires.

## 4 Finer material auger (TGSUVPROA only)

A This spreader is designed to work with #1 rock salt which translates to approximately 1/4" kennels. If you want to use other material such as calcium chloride pellets, magic salt or some other manufactured product, these are smaller than #1 rock salt in diameter. Therefore, we have a solution of an alternate auger. This will stop the free flow of the material once the hopper is loaded. The part number for the alternate auger is 3016233.

# C. SPINNER

## 1 Rotation

A The spinner should be spinning counterclockwise looking down from the top.
1. If it is not going counterclockwise looking down on it from the top, then reverse the connection on the pigtail of the motor to the wire harness.

# D. GEAR BOX

## 1 No power provided to the gearbox

A Look at the in cab controller for an error code. Reference section A1 of this document for further direction

## 2 Bent shaft (TGS03 and TGS07 only)

A The replacement number for this is 3027636. If you need assistance with replacing this spinner shaft, you can contact Buyers Products tech support team for detailed, step by step instructions.

# E. MOTORS

## 1 Replacement motors

A TGS02: 3027661
B TGS03 / TGS07: 3015377
C TGS06: 3009320
D TGSUVPROA / TGS01B / TGS05B: 3014441

## 2 Motor specs

A 3027661
- NORMAL LOAD
  - Power: 360 W
  - Current: 30 Amps
  - RPM: 120

B 3015377
- NORMAL LOAD
  - Power: 326 W
  - Current: 54 Amps
  - RPM: 125

C 3009320
- NORMAL LOAD
  - Power: 74 W
  - Current: 12 Amps
  - RPM: 1,000

D 3014441
- NORMAL LOAD
  - Power: 360 W
  - Current: 54 Amps
  - RPM: 620

# F. INVERTED VEE

**1** The inverted vee can be adjusted to accommodate different types of materials and dampness

A The material is flowing:
1 Too fast: Lower the inverted vee
2 Too slow: Raise the inverted vee

# G. VIBRATOR

## 1 Vibrator overload

A Ensure that the vibrator is tight to the plate and hopper. If this we to be loosse, this could damage the hopper.

# H. WIRE HARNESS

## 1 Repair ends

A Spinner: 3054945

B Vibrator: 3054942

## 2 Replacement orange weather plugs

A Spinner: 3065467

B Power harness: 3065438

## 3 Color codes

A White: Vibrator positive

B Green: Vibrator negative

C Red: Spinner positive

D Black: Spinner negative

# I. Truck

## 1 Voltage

A This spreader is a wire ground electrical system. There is no need for connections to the trucks frame or body. Always disconnect the battery before attempting to install the electrical components.

B To insure good performance of your spreader, check the condition of the trucks electrical system. Using a digital voltmeter, check the alternator and battery voltage. The voltage reading should be between 13.5 and 15.3 volts with the engine running, headlights and heater fan turned on. If the voltage reading falls out of this range, check and adjust your electrical system.

## 2 Diesel trucks

A For diesel trucks there are two batteries. All connections for the salt spreader should be connected to the primary battery.