



# TAILGATE SPREADER

## Owner's Manual



### **⚠ CAUTION**

Read this manual before installing or operating  
the spreader.

This manual supersedes all editions with an earlier date.  
This manual is for FISHER® SPEED-CASTER™ Spreaders with serial numbers  
(115297 - )



# TABLE OF CONTENTS

PREFACE .....	1
SAFETY INFORMATION .....	2
Before You Begin .....	2
Torque Chart .....	3
Under-Frame Mount Assembly Labels .....	4
Warning/Caution Label .....	4
LOADING .....	5
Certification .....	5
Load Weights .....	5
Approximate Salt Weight .....	5
Approximate Sand Weight .....	5
MOUNTING THE SPREADER .....	6
In-Bed Mount .....	6
Under-Frame Mount .....	7
OPERATING THE SPREADER .....	9
Driving and Spreading on Snow and Ice .....	9
Accessory Circuit .....	9
Adjusting the Gates and the Deflector .....	10
Deflector Effect .....	10
Gate Effect .....	10
Variable Speed (PWM) Control .....	11
Starting and Stopping the Motor .....	11
Adjusting the Spinner Speed .....	11
Blast/Maximum Speed .....	11
Spinner Indicator Lights .....	11
ON/OFF Control .....	12
Starting and Stopping the Motor .....	12
Blast Position .....	12
REMOVING THE SPREADER .....	13
In-Bed Mount .....	13
Under-Frame Mount .....	14
RECEIVER HITCH .....	15
Safety .....	15
Important Information on Towing .....	15
Ball Mounts/Drawbars .....	15
Hitch Balls .....	15
Trailer Couplers .....	15
Safety Chains .....	15
Electrical Connections .....	15
Sway Controls .....	16
Other Useful Equipment .....	16
Tire Inflation .....	16
Equipment and Parts Check .....	16
No Passengers in Trailers! .....	16
Trailer Loading .....	16
Driving .....	16
Excessive Sway .....	16
Controlling Trailer Sway .....	16
MAINTENANCE .....	17
After each use: .....	17
At the end of each season (or extended storage) .....	17
Recycle .....	17
4 PIN HARNESS WIRING DIAGRAM .....	18
3 PIN HARNESS WIRING DIAGRAM .....	19
TROUBLESHOOTING GUIDE .....	20



## PREFACE

---

This manual has been prepared to acquaint you with the safety information, operation and maintenance of your new tailgate spreader. Please read this manual carefully and follow all recommendations. This will help ensure profitable and trouble-free operation of your spreader. Keep this manual accessible. It is a handy reference in case minor service is required.

When service is necessary, bring your spreader to your local outlet. They know your spreader best and are interested in your complete satisfaction.

---

**NOTE: This spreader is designed to spread snow and ice control materials only. Do not use it for purposes other than those specified in this manual.**

---

## SAFETY INFORMATION

---

### **⚠ WARNING**

Indicates a potentially hazardous situation that, if not avoided, could result in death or personal injury.

### **⚠ CAUTION**

Indicates a situation that, if not avoided, could result in minor personal injury and/or damage to product or property.

---

**NOTE:** Identifies tips, helpful hints and maintenance information the owner/operator should know.

---

### **Before You Begin**

- Park the vehicle on a level surface, place shift lever in PARK or NEUTRAL and set the parking brake.

### **⚠ WARNING**

- Driver to keep bystanders minimum of 25 feet away from operating spreader.
- Before working with the spreader, secure all loose-fitting clothing and unrestrained hair.
- Before operating the spreader, verify all safety guards are in place.
- Before servicing the spreader, wait for conveyor or spinner to stop.
- Do not climb into or ride on spreader.

### **⚠ WARNING**

Overloading could result in an accident or damage. Do not exceed GVWR or GAWR ratings as found on the driver-side door cornerpost of the vehicle. See Loading Section to determine maximum volumes of spreading material.

### **⚠ CAUTION**

If rear directional/brake lights are obstructed when mounting the spreader, the lights must be relocated, or auxiliary directional/brake lights must be installed to the side of the spreader.

### **⚠ CAUTION**

- Do not operate a spreader in need of maintenance.
- Before operating the spreader, reassemble any parts or hardware removed for cleaning or adjusting.
- Before operating the spreader, remove materials such as cleaning rags, brushes, and hand tools from the spreader.
- While operating the spreader, use auxiliary warning lights, except when prohibited by law.
- Tighten all fasteners according to the Torque Chart. Refer to Torque Chart for the recommended torque values.

## SAFETY INFORMATION

### CAUTION

Disconnect electric power at spreader electrical wiring harness connection and tag out if required before servicing or performing maintenance.

### CAUTION

DO NOT leave unused material in hopper. Material can freeze or solidify, causing unit to not work properly. Empty and clean after each use.




**NOTE:** Maintain proper belt tension for correct belt functioning.

**NOTE:** Lubricate grease fittings after each use. Use a low temperature synthetic grease.

**NOTE:** Airborne noise emission during use is below 70 dB(A) for the spreader operator.

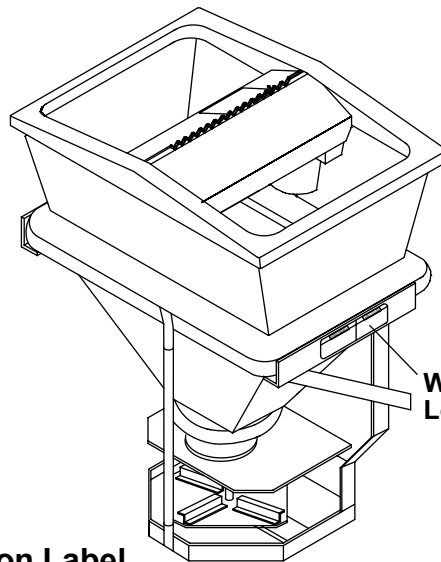
When tightening fasteners, refer to Torque Chart for the recommended fastener values.

### Torque Chart

Recommended Fastener Torque Chart (Ft.-Lb.)			
Size	 SAE Grade 2	 SAE Grade 5	 SAE Grade 8
1/4-20	6	9	13
5/16-18	11	18	28
3/8-16	19	31	46
3/8-24	24	46	68
7/16-14	30	50	75
1/2-13	45	75	115
9/16-12	66	110	165
5/8-11	93	150	225
3/4-10	150	250	370
7/8-9	202	378	591
1-8	300	583	893
Metric Grade 8.8 (Ft.-Lb.)			
Size	Torque	Size	Torque
M 6	7	M 12	60
M 8	17	M 14	95
M 10	35	M 16	155
These torque values apply to mount assembly fasteners except those noted in the instruction.			



## SAFETY INFORMATION

Please become familiar with the Warning and Caution labels on the spreader!



Warning/Caution Label  
Located on both sides

### Warning/Caution Label

 <b>WARNING</b>	 <b>CAUTION</b>
<ul style="list-style-type: none"><li>• DO NOT EXCEED GVWR OR GAWR WITH SPREADER AND LOAD.</li><li>• TURN SPREADER OFF BEFORE FILLING, ADJUSTING, OR CLEANING.</li><li>• BYSTANDERS TO STAY A MINIMUM OF 25 FEET AWAY FROM OPERATING SPREADER.</li><li>• DO NOT CLIMB INTO OR RIDE ON SPREADER.</li><li>• KEEP HANDS, FEET, CLOTHING AWAY FROM MOVING CONVEYOR AND SPINNER.</li></ul>	<ul style="list-style-type: none"><li>• READ OWNER'S MANUAL BEFORE OPERATING OR SERVICING SPREADER.</li><li>• EMPTY AND CLEAN SPREADER AFTER EACH USE.</li></ul>

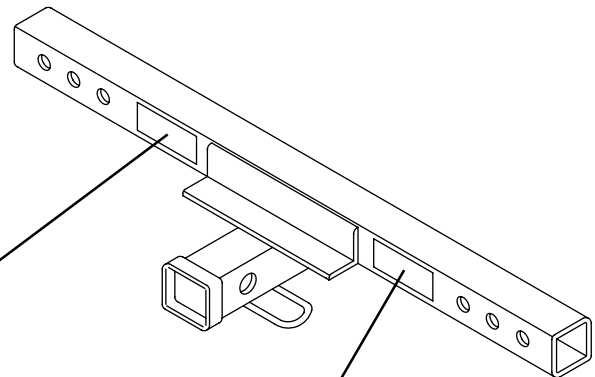
66584

### Under-Frame Mount Assembly Labels

The diagram below indicates the location of the safety and identification labels.

HITCH TYPE	MAX. GROSS TRAILER WEIGHT (LB.)	MAX. TONGUE WEIGHT (LB.)
WEIGHT DISTRIBUTING	10,000	1,000
WEIGHT CARRYING BALL MOUNT	10,000	1,000

67181



### **WARNING**

**DO NOT cut, drill, weld  
or modify this tube**

67182



## LOADING

This manual covers vehicles which have been recommended for carrying the spreader. Please see your local dealer for proper vehicle applications.

### Certification

All new vehicle installations require NHTSA Altered Certification Labeling. Installer to verify struck load of snow or ice control material does not exceed vehicle GVWR or GAWR ratings.

#### **⚠ WARNING**

Overloading could result in an accident or damage. Do not exceed GVWR or GAWR ratings as found in the driver-side cornerpost of the vehicle.

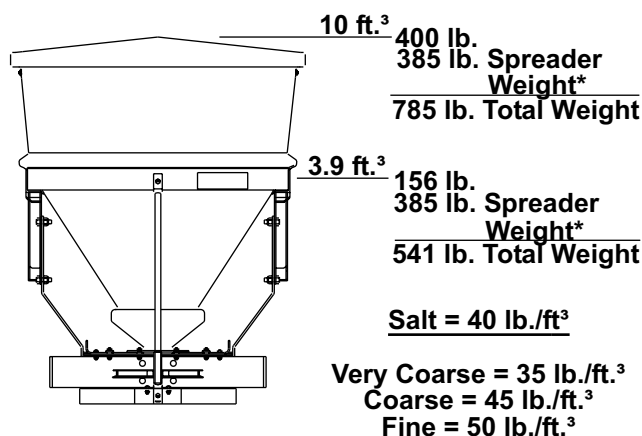
#### **⚠ WARNING**

The use of under-frame or in-bed mounts on half-ton trucks is restricted to spreading only salt or calcium chloride. (max. 50 lb. per cu. ft.) Failure to comply could result in exceeding the payload capacity.

**NOTE:** If spreader and ice control material loading is in doubt, weigh vehicle for compliance with vehicle ratings.

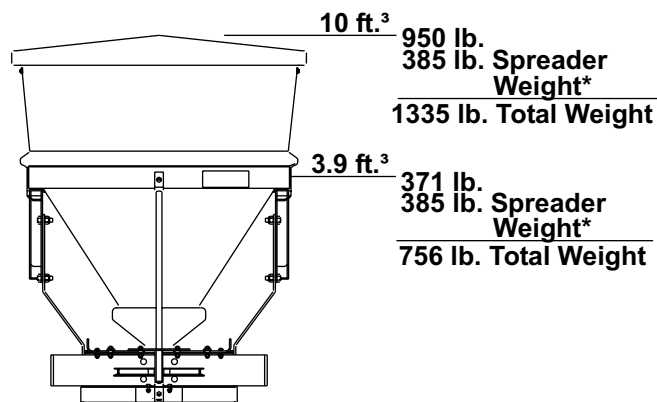
### Load Weights

#### Approximate Salt Weight



Salt = 40 lb./ft.<sup>3</sup>

#### Approximate Sand Weight



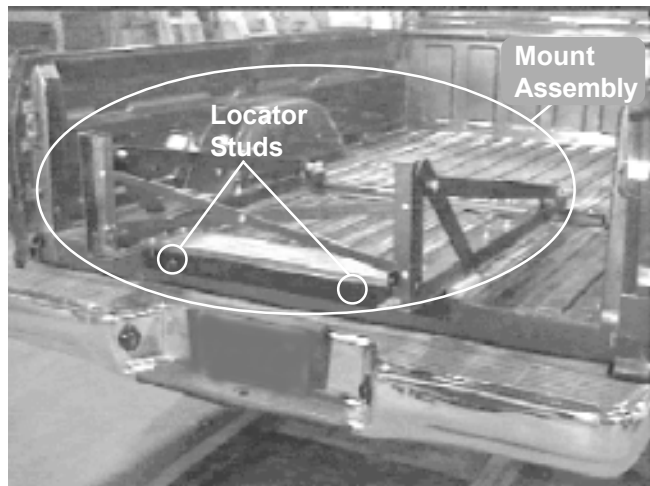
Sand = 95 lb./ft.<sup>3</sup>

\* Spreader weight includes Under Frame Mount.  
Subtract 100 lb. if using an In-Bed Mount.

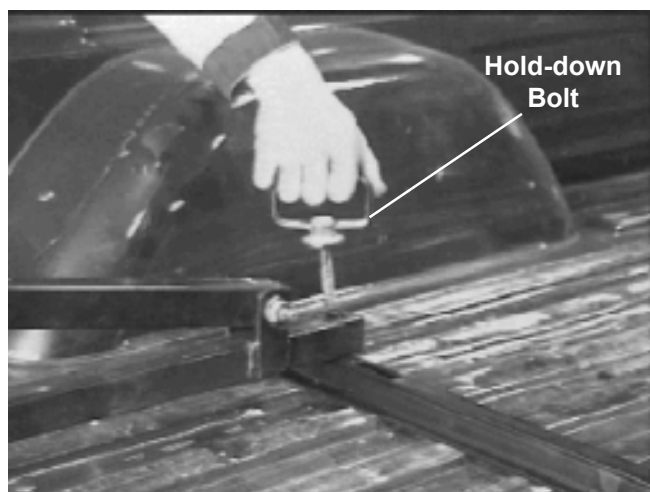
## MOUNTING THE SPREADER

### In-Bed Mount

1. Remove the tailgate from the vehicle.
2. Place the mount assembly into the bed of the vehicle.
3. Slide the assembly forward engaging the locator studs.



4. Secure the front of the mount assembly to the channel using hold-down bolts. Hand tighten.



**NOTE:** Apply a small amount of grease to the bolt thread periodically to ensure easy removal.

5. Lift the hopper assembly using a hoist or two people, and tip slightly forward.



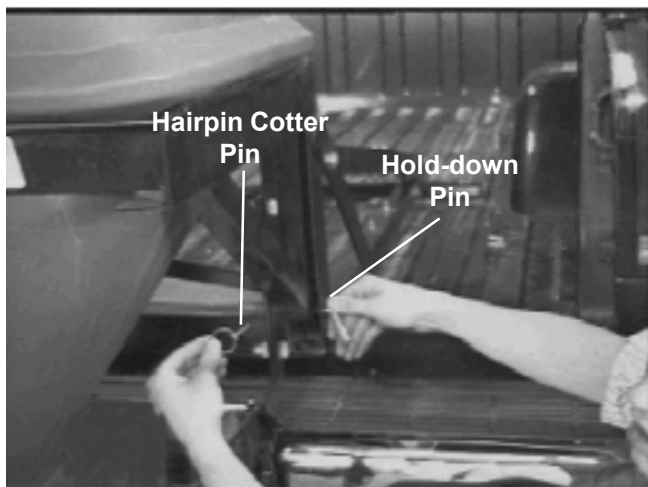
6. Position the tabs of the hopper assembly over the top of the mount assembly, and lower.



7. Allow the hopper assembly to lower into position.

## MOUNTING THE SPREADER

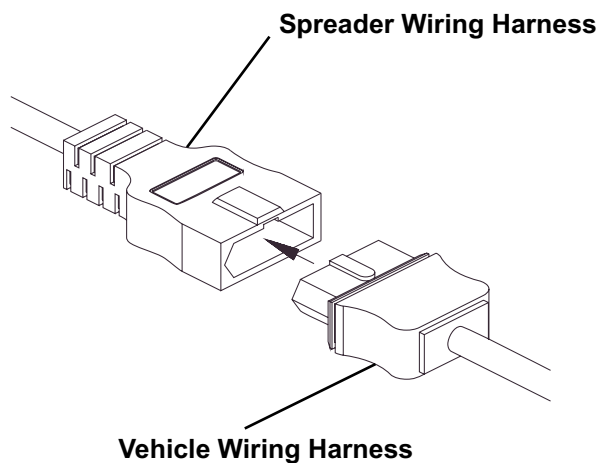
8. Insert hold-down pins and secure with hairpin cotter pins.



### **⚠ CAUTION**

Both hold-down pins must be in place and secured with hairpin cotter pins. The hopper assembly may become unstable if the pins are not properly secure while the vehicle is in motion. Never use a finger to check alignment.

9. Connect the spreader wiring harness to the vehicle wiring harness.

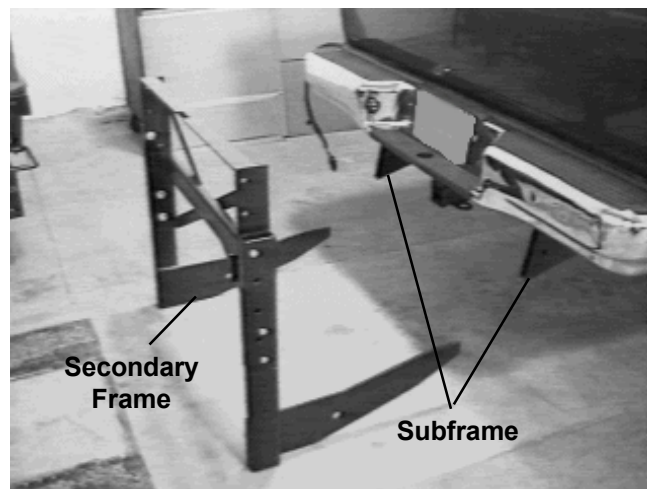


10. Verify proper stoplight and spreader operation.

**NOTE:** Grease all electrical connections with dielectric grease.

### **Under-Frame Mount**

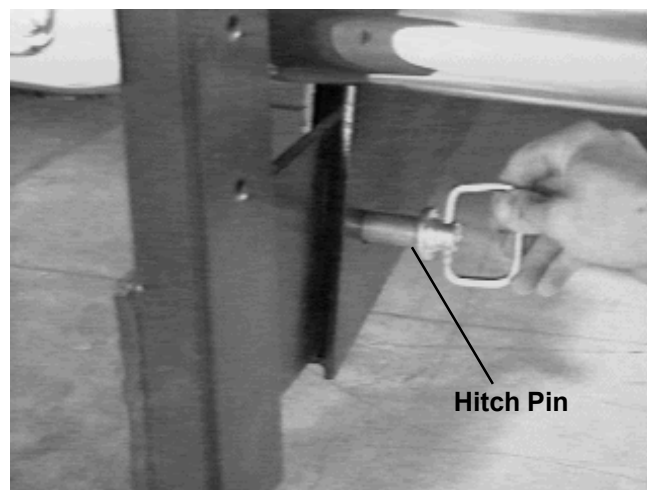
1. Install the secondary frame into the subframe.



### **⚠ CAUTION**

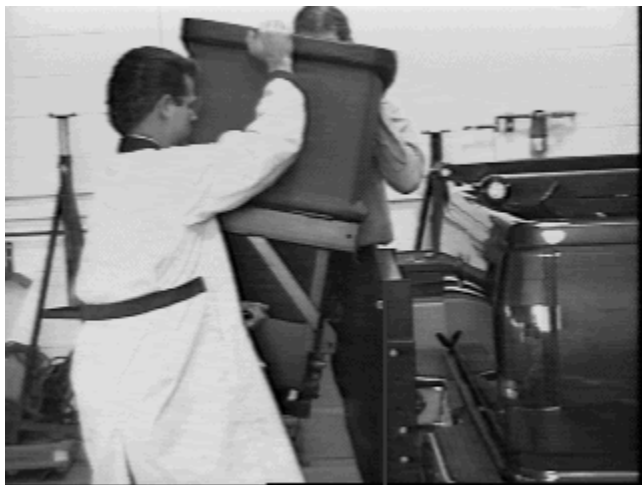
Visually check Hitch Pin holes before assembly. Never use a finger to check alignment.

2. Insert the hitch pin on each side, and secure with linch pins.



## MOUNTING THE SPREADER

3. Lift the hopper assembly using a hoist or two people, and tip slightly forward.



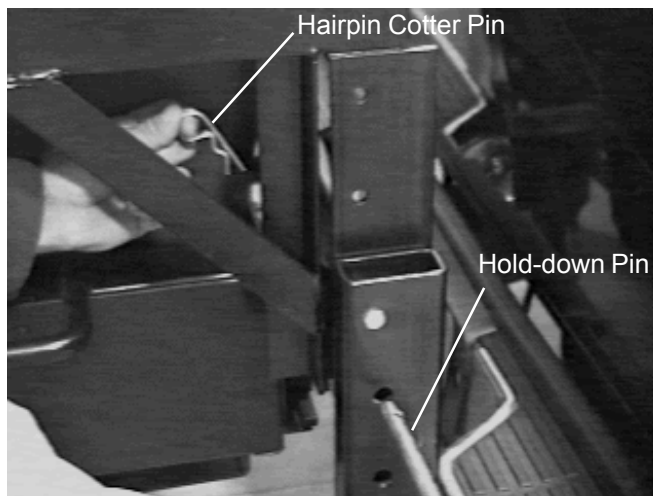
### ⚠ CAUTION

Visually align tabs into the secondary frame.

4. Position tabs on the hopper assembly over the top of the mount assembly, and lower the assembly.



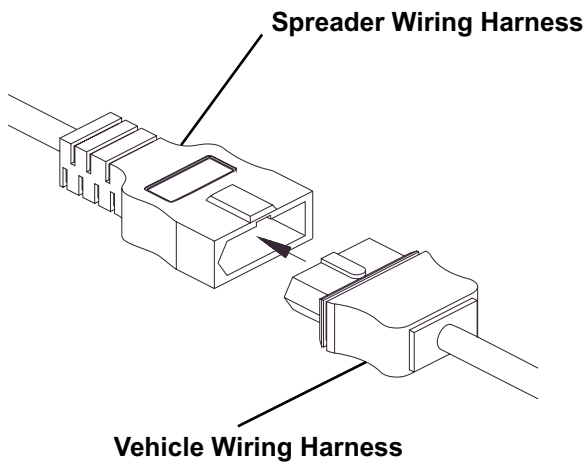
5. Insert pin on each side and secure with hairpin cotter pin.



### ⚠ CAUTION

Both hold-down pins must be in place and secured with hairpin cotter pins. The hopper assembly may become unstable if the pins are not properly secure while the vehicle is in motion. Never use a finger to check alignment.

6. Connect spreader wiring harness to the vehicle wiring harness.



**NOTE:** Grease all electrical connections with dielectric grease.

7. Verify proper stoplight and spreader operation.

# OPERATING THE SPREADER

---

## Driving and Spreading on Snow and Ice

### **⚠ CAUTION**

**Drinking and then driving or spreading is very dangerous. Your reflex, perceptions, attentiveness and judgement can be affected by even a small amount of alcohol. You can have a serious or even fatal collision if you drive after drinking. Please do not drink, then drive or spread ice control materials.**

Follow your vehicle owner's manual instructions for driving in snow and ice conditions. Remember when you drive on snow or ice, your wheels will not get good traction. You cannot accelerate as quickly, turning is more difficult and you will need longer braking distance. Wet and hard packed snow or ice offers the worst tire traction. It is very easy to lose control. You will have difficulty accelerating. If you do get moving, you may have poor steering and difficult braking which can cause you to slide out of control.

Here are some tips for driving in these conditions.

- Drive defensively.
- Do not drink, then drive or spread snow and ice control materials.
- Spread or drive only when you have good visibility for operating a vehicle.
- If you cannot see well due to snow or icy conditions, you will need to slow down and keep more space between you and other vehicles.
- Slow down, especially on higher speed roads. Your headlamps can light up only so much road ahead.
- If you are tired, pull off in a safe place and rest.
- Spreader size reduces driver visibility to the rear of the vehicle due to spreader size and location. We recommend an OSHA compliant backup alarm for all governed employers.
- Keep your windshield and all glass on your vehicle clean to see around you.
- Dress properly for the weather. Wear layers of clothing, as you get warm, you can take off layers.

## Accessory Circuit

The yellow wire in the vehicle harness is provided for accessory use of 12 AMPS or less.

# OPERATING THE SPREADER

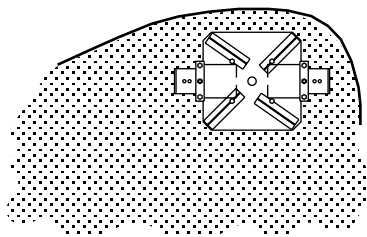
## Adjusting the Gates and the Deflector

Spread pattern, pattern width, and the amount of material dispensed are dependent on the spinner speed, gate position, and deflector position.

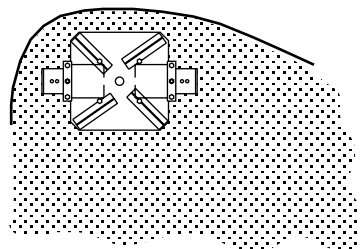
### ⚠ WARNING

Before making any adjustments to the gate/deflector settings, turn the spreader off. Wait for all conveyor or spinner movement to stop.

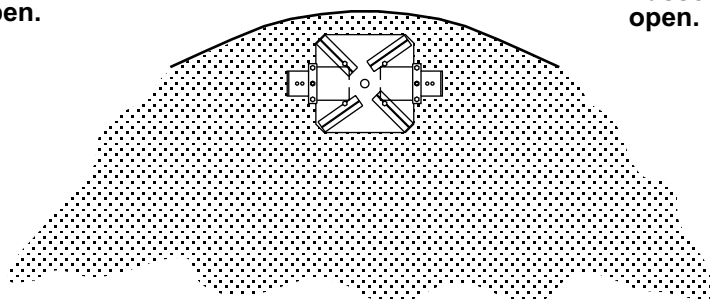
### Deflector Effect



**Driver side open.**

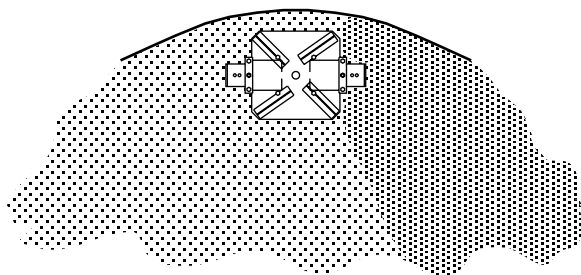


**Passenger side open.**

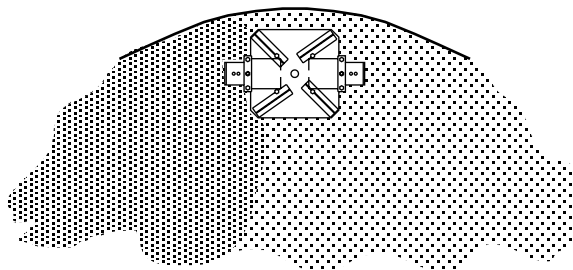


**Both sides open.**

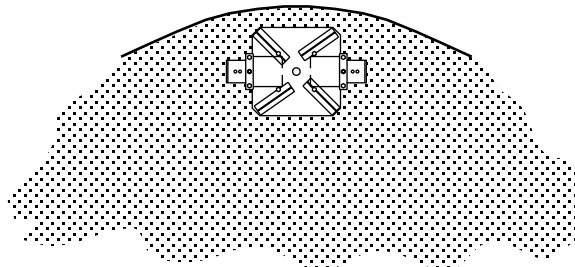
### Gate Effect



**Passenger side gate closed.  
Heavy on passenger side.**



**Driver side gate closed.  
Heavy on driver side.**

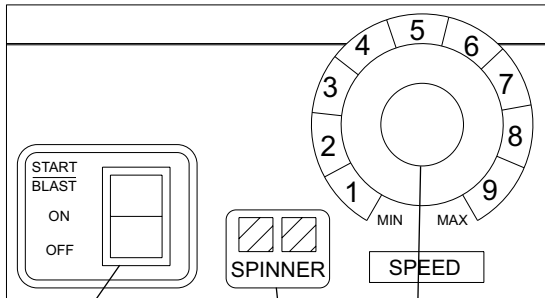


**Both Gates Open.**

# OPERATING THE SPREADER

There are two control options. They are the Variable Speed (PWM) Control and the ON/OFF Control.

## Variable Speed (PWM) Control



**Power Switch**  
Used to start and stop the spinner  
OFF position operates as emergency stop when required.

**Indicator Lights**  
Indicate whether the spinner is in motion.  
Left light is red and indicates a fault.  
Right light is green and indicates power is on.

**Speed Dial**  
Used to change the speed of the spinner

## Starting and Stopping the Motor

### ⚠ WARNING

**Before starting the motor, be sure all personnel and equipment are clear of the discharge area.**

1. To start the spreader motor, press the power switch to the START/BLAST position and release. This is a momentary position and the power switch will automatically return to the ON position when released. The spreader will operate at the speed selected on the speed dial.
2. Press the power switch to the OFF position to stop the motor. The power switch will remain in this position. The power switch OFF position operates as emergency stop when required.

**NOTE: The truck ignition must be on to start the spreader.**

**NOTE: If the truck ignition is turned off while the spreader is running, the power to the motor will stop.**

## Adjusting the Spinner Speed

The speed setting can be adjusted when the spreader is either on or off.

1. Turn the speed dial clockwise. As the numbers on the speed dial increase, so will the speed.
2. Turn the speed dial counterclockwise. As the numbers on the speed dial decrease, so will the speed.

## Blast/Maximum Speed

1. Press and hold the power switch to the START/BLAST position for as long as maximum speed is needed.
2. Release the power switch when maximum speed is no longer needed. When released, it will automatically return to the ON position and to the speed shown on the speed dial.

**NOTE: When blast is used, the speed dial will remain at the preset speed and will not move to the maximum speed setting.**

## Spinner Indicator Lights

Two lights on the cab control indicate the status of the motor:

- When the red (left) light is on, the power is on and the motor is not running.
- When the green (right) light is on, there is power to the controller and the motor is running.

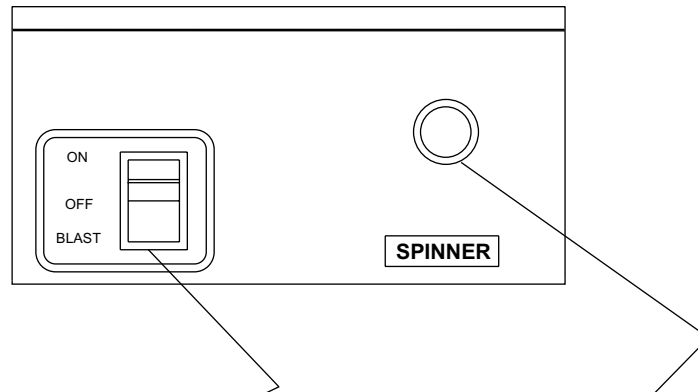
If there are problems while operating the spreader, refer to the Troubleshooting section of this manual.

**NOTE: Always place the vinyl cover over the hopper to prevent moisture buildup. Do not let the spreader sit idle with material in the hopper for an extended period of time. This can cause the material to compact and reduce or stop the flow of material.**

# OPERATING THE SPREADER

---

## ON/OFF Control



**On/Off Control Switch**  
Used to start and stop the spinner. OFF position operates as emergency stop when required.

**Spinner Indicator Light**  
Illuminated light indicates power to the motor.

## Starting and Stopping the Motor

### **⚠ WARNING**

Before starting the motor, be sure all personnel and equipment are clear of the discharge area.

1. Move the power switch to the on position to start the motor. Motor will start immediately. The power switch will remain in this position.
2. Move the power switch to the OFF position to stop the motor. The power switch will remain in this position. The power switch OFF position operates as emergency stop when required.

## Blast Position

Move and hold the power switch to the BLAST position for as long as momentary operation is needed. When released, the switch will automatically return to the OFF position and stop the motor.

---

**NOTE:** The truck ignition must be on to start the spreader.

---

---

**NOTE:** If the truck ignition is turned off while the spreader is running, the motor will automatically stop.

---

If there are problems while operating the spreader, refer to the Troubleshooting section in this manual.

---

**NOTE:** Always place the vinyl cover over the hopper to prevent moisture buildup. Do not let the spreader sit idle with material in the hopper for an extended period of time. This can cause the material to compact and reduce or stop the flow of material.

---

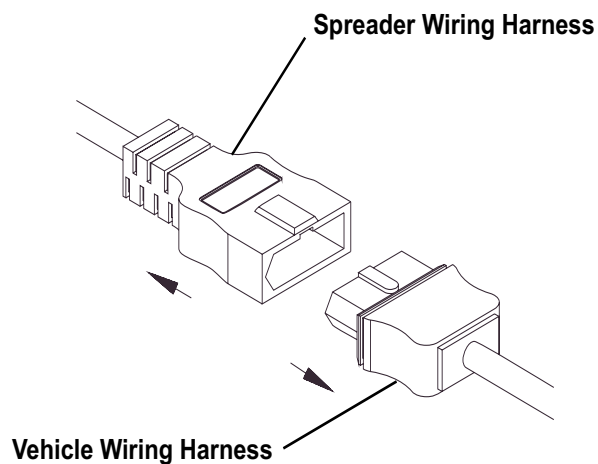


## REMOVING THE SPREADER

### In-Bed Mount

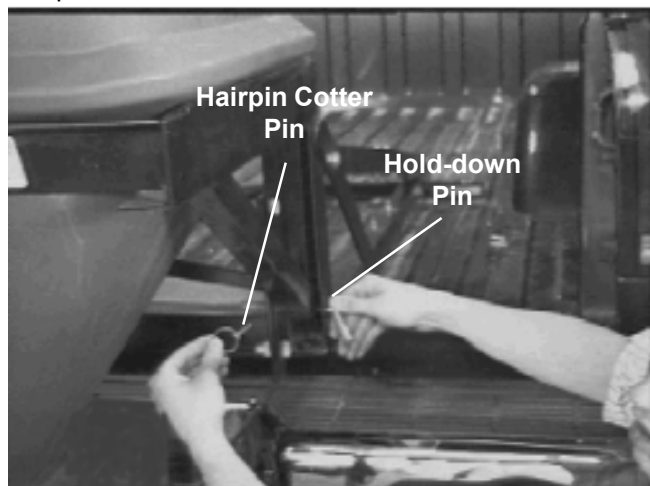
**NOTE: Empty the hopper before removing the spreader.**

1. Disconnect the spreader wiring harness from the vehicle wiring harness.



**NOTE: Grease the electrical connections using dielectric grease.**

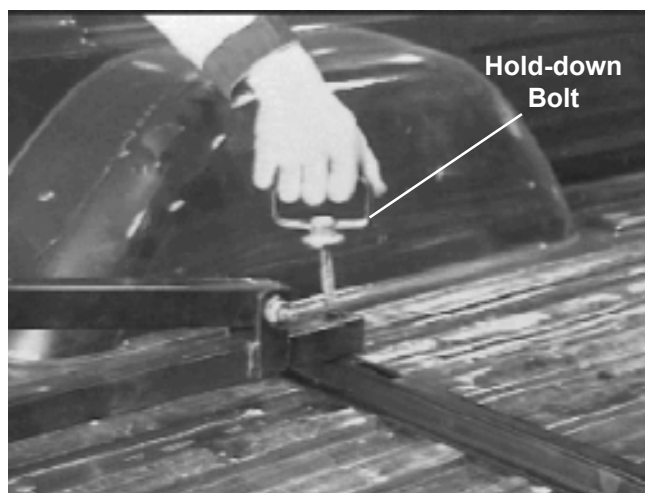
2. Install the plug cover over the vehicle harness plug.
3. Remove the hairpin cotter pins and hold-down pins.



4. Using a hoist or two people, tip the hopper assembly forward and lift it off of the mount assembly.



5. Loosen and remove the hold-down bolts from the front of the mount assembly.



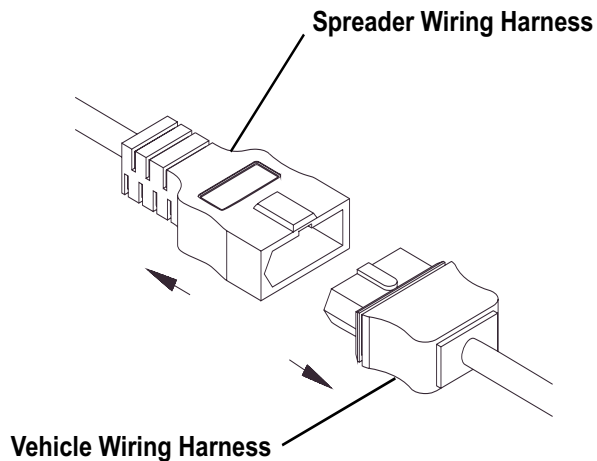
6. Remove the mount assembly from the vehicle.
7. Install the tailgate.

## REMOVING THE SPREADER

### Under-Frame Mount

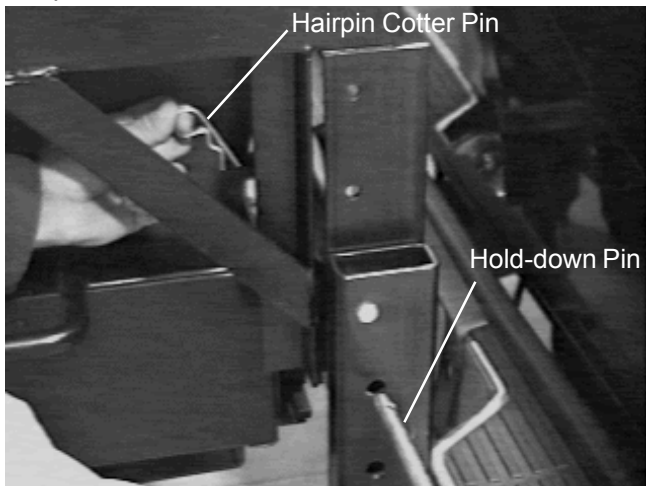
**NOTE:** Empty the hopper before removing the spreader.

1. Disconnect the spreader wiring harness from the vehicle wiring harness.



**NOTE:** Grease the electrical connections using dielectric grease.

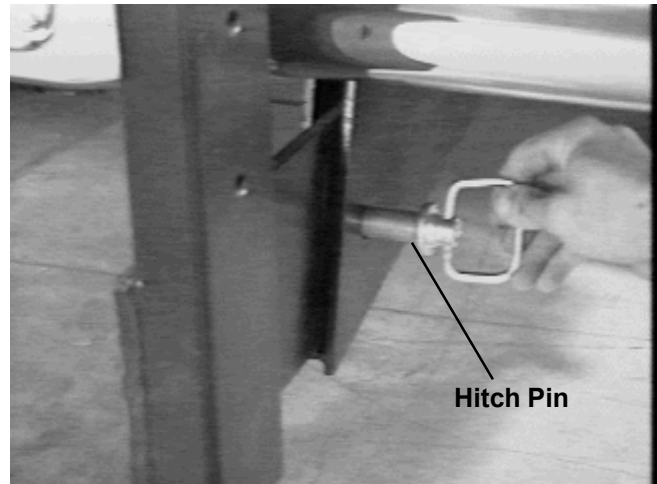
2. Install the plug cover over the vehicle harness plug.
3. Remove the hairpin cotter pins and the hold-down pins.



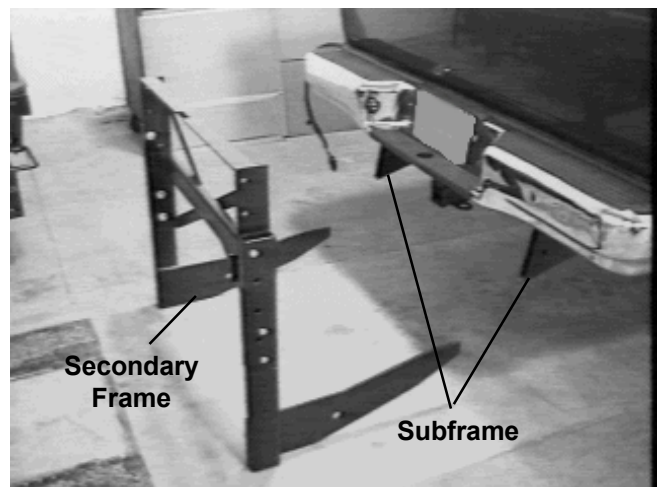
4. Using a hoist or two people, tip the hopper assembly forward and lift it off of the mount assembly.



5. Remove the linchpins and hitch pins retaining the secondary frame.



6. Remove the secondary frame assembly from the subframe.



# RECEIVER HITCH

## Safety

### **⚠ WARNING**

- **Do not overload any part of your towing system.**
- **Do not modify your hitch. Install only on specified vehicles which are in good condition.**
- **This product is designed to tow trailers. Do not use as cargo carriers, motorcycle carriers, boat hoists, or coupler alignment devices. Do not use as a jacking point. Do not attach anything with or in place of the ball.**
- **Do not pull multiple trailers. Towing one trailer behind another may cause severe instability and loss of control.**

## Important Information on Towing

Make sure all operators of your equipment read and understand this information before towing. This information will help you properly select, use, and maintain your towing equipment. Learn the capabilities and limitations of each part.

### **⚠ CAUTION**

**Never exceed the gross trailer weight or tongue weight of this equipment. Never exceed the lowest weight rating of any part of your towing system. See the Label - information (rating) area in the Safety Section of this manual.**

Gross trailer weight is the weight of the trailer plus the weight of the cargo. Measure gross trailer weight by putting the fully loaded trailer on a vehicle scale. Tongue weight is measured by placing the fully loaded trailer on a level surface with the coupler at normal towing height. Use a commercial scale to measure the weight at the coupler.

## Ball Mounts/Drawbars

Select these products by their gross trailer weight and tongue weight ratings. Select hitches and receivers for specific vehicles. Do not purchase a ball mount or drawbar which will give more than a four inch drop or seven inch extension as measured from the lower rear edge of the receiver.

## Hitch Balls

Select by gross trailer weight rating, coupler socket size, and mounting platform thickness and hole size. Hole must not exceed threaded shank diameter by more than 1/16 inch. Use lock washer. Tighten according to instructions. When tightened, shank must protrude beyond bottom of nut. Gross trailer weight rating and ball diameter are marked on balls.

## Trailer Couplers

The coupler socket should be smooth, clean and lightly lubricated. Tighten or adjust according to the coupler manufacturer's instructions.

## Safety Chains

Connect safety chains properly every time you tow. Cross chains under coupler. Attach securely to the hitch or tow vehicle so they cannot bounce loose. Leave only enough slack to permit full turning. Too much slack may prevent chains from maintaining control if other connections separate. Do not allow chains to drag the road.

## Electrical Connections

Make these safety-critical connections every time you tow, no matter how short the trip. Check operation, including electric brake manual control, before getting on the road.

---

# RECEIVER HITCH

---

## Sway Controls

Sway controls can lessen the effects of sudden maneuvers, wind gusts, and buffeting caused by other vehicles. We recommend sway controls for trailers with large surface areas, such as travel trailers. Adjustable friction models can help control the sway of travel trailers with low tongue weight percentages.

## Other Useful Equipment

Air springs, air shocks, or helper springs are useful for some hitch applications. A transmission cooler may be necessary for heavy towing. Many states require towing mirrors on both sides.

## Tire Inflation

Check often. Follow tow vehicle and trailer manufacturer's recommendations. Improper tire inflation can cause trailer sway.

## Equipment and Parts Check

Check ball, coupler, chains, retaining pins and clips and all other connections every time you tow. Re-check at fuel and rest stops.

## No Passengers in Trailers!

Under no circumstances should people be allowed in trailers while towing.

## Trailer Loading

Proper loading helps prevent sway. Place heavy objects on the floor ahead of the axle. Balance the load side to side and secure it to prevent shifting. Tongue weight should be 10-15 percent of gross weight for most trailers. Too low a percentage of tongue weight can cause sway. Never load the trailer rear-heavy; load the trailer front heavy.

## Driving

The additional weight of a trailer affects acceleration, braking and handling. Allow extra time for passing, stopping, and changing lanes. Severe bumps can damage your towing vehicle, hitch, and trailer. Drive slowly on rough roads. Stop and make a thorough inspection if any part of your towing system strikes the road. Correct any problems before resuming travel.

## Excessive Sway

Excessive sway can lead to loss of control. Sway motion should settle out quickly. Sway tends to increase on a downgrade. Starting slowly, increase the speed in gradual steps. If sway occurs, reduce speed slowly, stop, and adjust your trailer load and equipment. Repeat until the trailer is stable at highway speed. Do this whenever your trailer loading changes.

## Controlling Trailer Sway

Turbulence from another vehicle, a wind gust, or a downgrade can cause sudden sway along with shift of the trailer's load or a trailer tire blowout. If the trailer sways, it is the driver's responsibility to assess the situation and take appropriate action. Below are the suggestions that may apply when assessing the situation. If your trailer starts to sway:

- reduce your speed gradually
- hold steering wheel as steady as possible
- and if your trailer has electric brakes, apply the trailer brakes alone without using the tow vehicles brakes.
- do not hit your brake pedal hard unless absolutely necessary.
- do not try to steer out of the sway condition. Sudden or violent steering can worsen the sway.
- do not speed up or swaying will increase.
- do not continue towing a trailer that tends to sway or you may lose control.

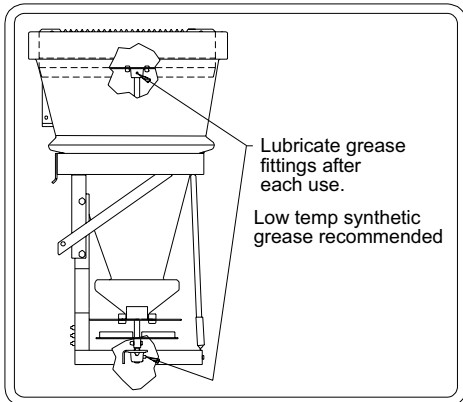
## MAINTENANCE

### **⚠ WARNING**

**Always disconnect electric power before servicing or performing any maintenance. Electric shock can cause death or injury.**

To keep your spreader running smoothly, observe the following recommendations:

- Lubricate grease fittings after each use and at the end of each season.



- Maintain proper motor to shaft belt tension.

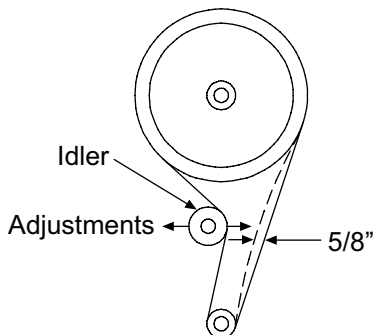
To adjust belt tension:

1. Loosen the carriage bolt that holds down the idler.
2. Slide the carriage bolt to increase or decrease tension.
3. After adjusting the idler, tighten the carriage bolt.

### **⚠ CAUTION**

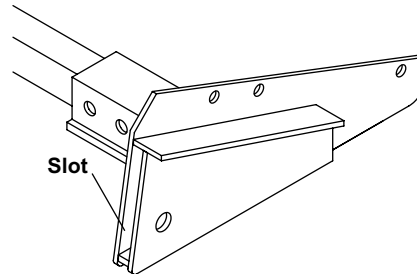
**Overtightening the belt may result in damage to the motor bearing.**

4. After tightening the carriage bolt, the belt should deflect 5/8" between the pulleys.



### **After each use:**

- Wash out hopper and rinse off all external surfaces.
- Wash out the secondary frame slots in the under-frame mount to prevent build-up of material.



- Use dielectric grease on all electrical connections to prevent corrosion at the beginning and end of the season and after each use.
- Lubricate all grease fittings.

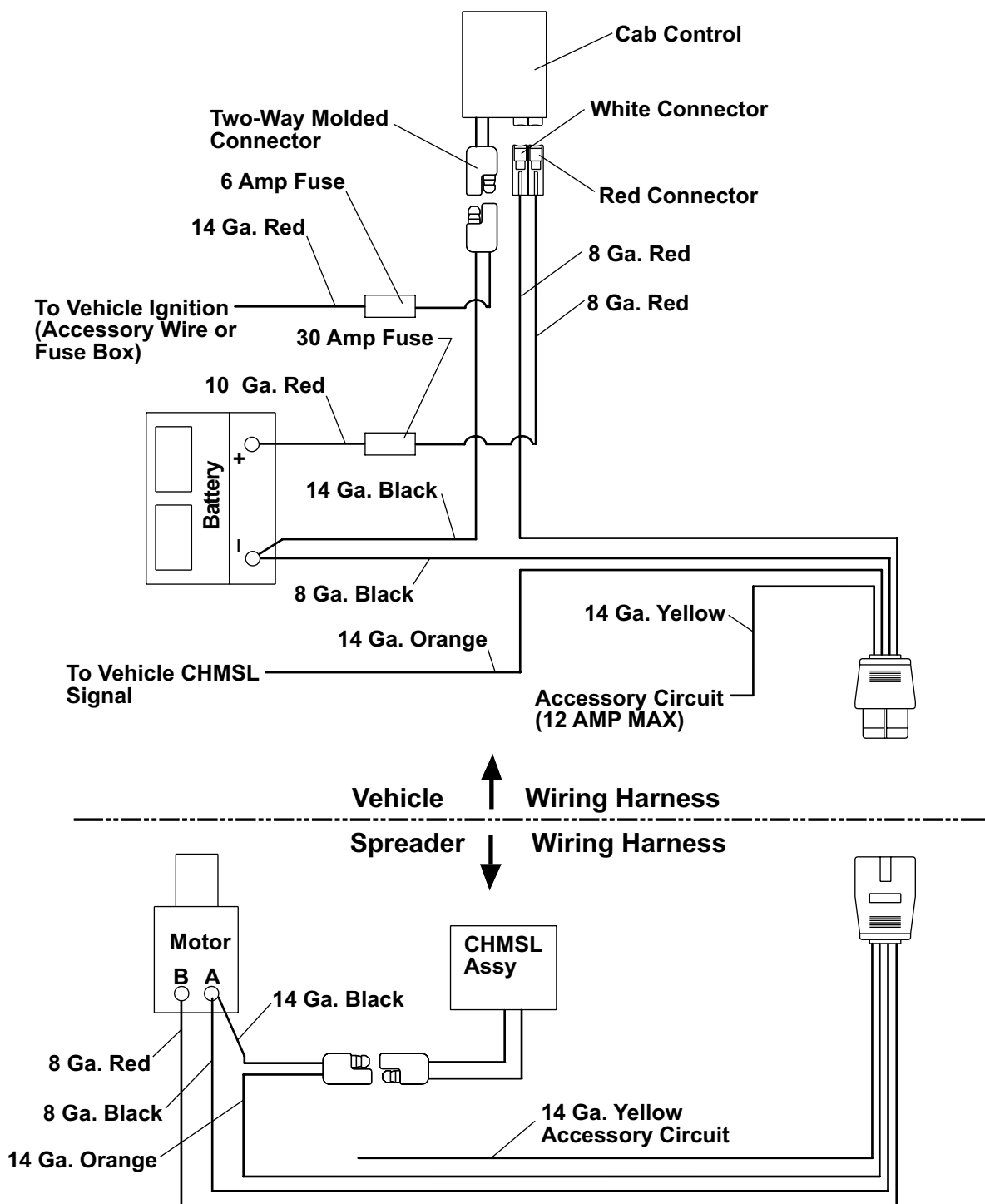
### **At the end of each season (or extended storage)**

- Wash out hopper and rinse off all external surfaces.
- Apply dielectric grease on all electrical connections to prevent corrosion.
- Lubricate all grease fittings.
- Oil or paint all bare metal surfaces.

### **Recycle**

When your spreader has performed its useful life, the majority of its components can be recycled as steel. Gear oil shall be disposed of according to local regulations. Balance of parts made of plastic shall be disposed of in customary manner.

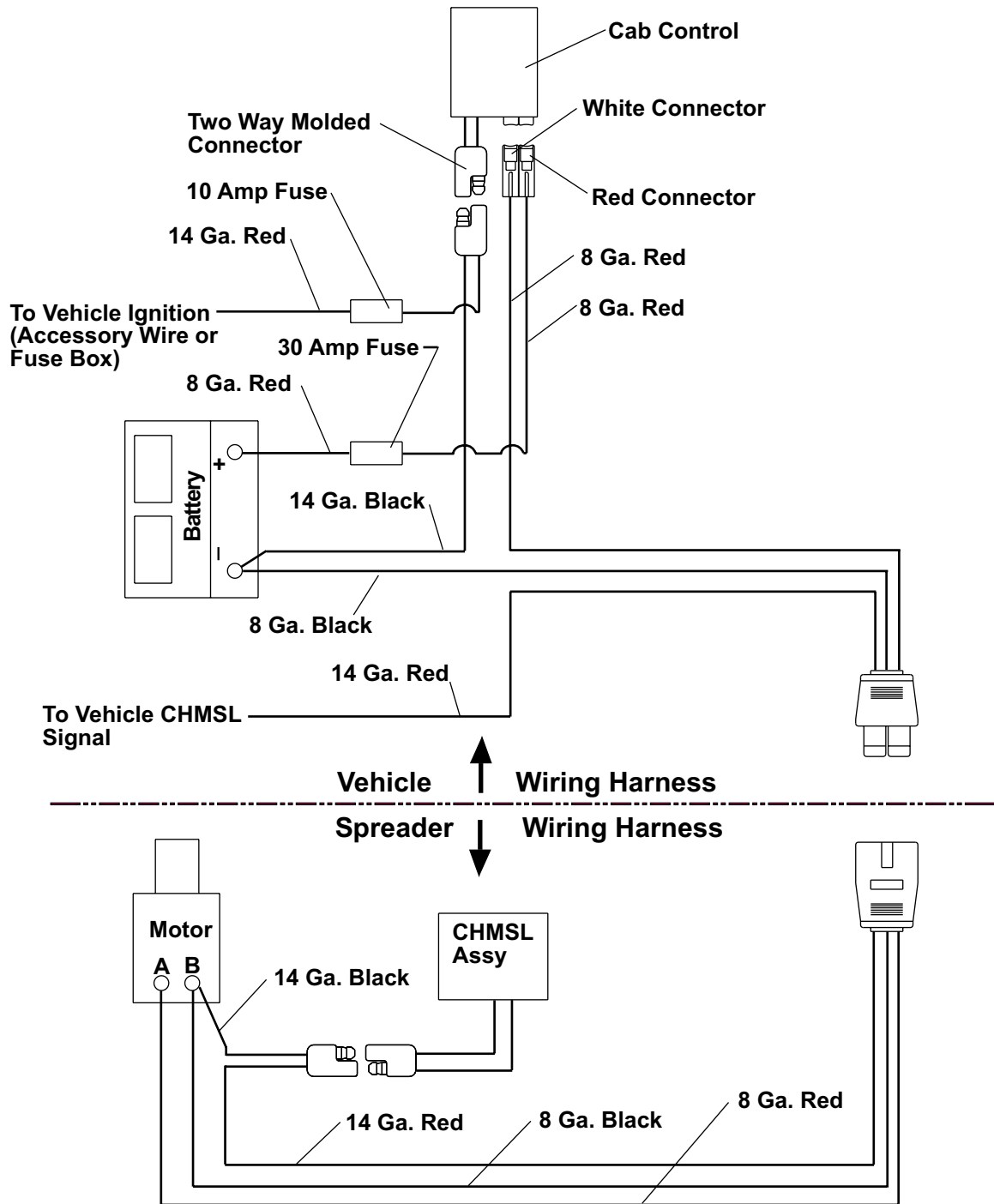
## 4 PIN HARNESS WIRING DIAGRAM



### Motor Specification:

12 Volt DC, .56 kW Motor

## 3 PIN HARNESS WIRING DIAGRAM



### Specification:

12 Volt DC, .56 kW Motor

## TROUBLESHOOTING GUIDE

VARIABLE SPEED (PWM) CONTROL TROUBLE SHOOTING GUIDE			
CONDITION		PROBLEM	EXPLANATION / POSSIBLE SOLUTIONS
Left (Red) Light	Right (Green) Light		
OFF	OFF	Spinner does not turn	No power to the cab control: Turn the ignition switch on. Turn the cab control on. Check for power to the cab control.
OFF	ON	Spinner does not turn	If the motor <b>is</b> turning: Disconnect the power Remove the belt cover. Check for a broken belt or a loose idler pulley. If the motor <b>is not</b> turning: Set the cab control to full speed. Check for voltage at the motor terminal. If voltage is present, the problem is in the motor. If no voltage is present, problem is in the harness or the connections.
ON	OFF	Spinner does not turn	Overload condition is causing over-current protection to activate: Reset the cab control by turning the power switch to OFF. Depress START/BLAST switch. If the problem continues: Turn the power off at the cab control. Disconnect the electrical plug at the spreader. Try to manually turn the spinner. If the shaft <b>will not</b> turn manually, clear spinner/shaft of obstructions and lubricate the bearings. If the shaft turns freely and the condition continues, the problem is in the motor or the cab control.











FISHER ENGINEERING  
P.O. BOX 529  
ROCKLAND, MAINE 04841



A DIVISION OF DOUGLAS DYNAMICS, L.L.C.



Copyright© 2001 Douglas Dynamics, L.L.C. All rights reserved. This material may not be reproduced or copied, in whole or in part, in any printed, mechanical, electronic, film or other distribution and storage media, without the written consent of Fisher Engineering. Authorization to photocopy items for internal or personal use by Fisher Engineering outlets is granted.

Fisher Engineering reserves the right under its product improvement policy to change construction or design details and furnish equipment when so altered without reference to illustrations or specifications used herein. Fisher Engineering and the vehicle manufacturer may require and/or recommend optional equipment for tailgate spreaders. The FISHER® spreader is manufactured under patent 5,501,405. Fisher Engineering offers a limited warranty for all spreaders and accessories. See separately printed page for this important information. The following are registered® and unregistered™ trademarks of Douglas Dynamics, L.L.C.: FISHER® and SPEED-CASTER™.

Printed in USA