



**LIGHT TRUCK ELECTRIC
MATERIAL SPREADER
MODELS 635 & 835**

OPERATOR'S MANUAL

DO NOT USE OR OPERATE THIS EQUIPMENT UNTIL THIS MANUAL
HAS BEEN READ AND THOROUGHLY UNDERSTOOD

PART NUMBER 79203321

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79203321

6/11

Hiniker/79203321

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TO THE PURCHASER

This product is designed and manufactured to give years of dependable service, when properly maintained and used for the purpose for which it is intended. Never allow anyone to operate this equipment until they fully understand the complete contents of this manual. It is the responsibility of owners who do not operate this equipment to ensure the operator is properly instructed and understands the contents of this manual. It is also the owner's responsibility to ensure that anyone operating this equipment is mentally and physically capable of so doing.

Important information is contained in this manual to help ensure safe and efficient operation.

If you have any questions about this manual, or the equipment discussed herein, contact your Hiniker dealer.



This is the safety alert symbol. It alerts an operator to information concerning personal safety. Always observe and heed these instructions, otherwise death, or serious injury can result!

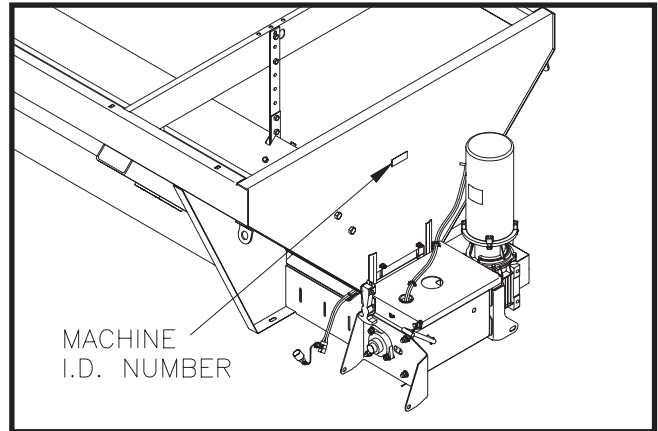
All references to LEFT or RIGHT mean viewing the spreader from the rear and facing the truck.

This Operator's manual is shipped with this equipment. Contact your Hiniker dealer for additional copies.

Always obtain original Hiniker service parts. Substitute parts could adversely affect equipment performance and warranty.

Check that your dealer has forwarded the Hiniker delivery report copy and the machine serial number to maintain maximum service and warranty benefits. This does not put you on any mailing list and information thereon is not available to others.

Your spreader's identification number plate is at the location shown below.



DWG. NO. 6723

Record the following information for later reference when obtaining service parts:

Purchase Date _____

Purchaser's Name _____

Dealer's Name _____

Machine Serial No. _____

SAFETY



This is the safety alert symbol. It alerts an operator to information concerning personal safety. Always observe and heed these instructions, otherwise death or serious injury can result!

Operator safety is a principle concern in equipment design and distribution. However, many accidents occur because a few seconds of thought, and a more careful approach to handling, were ignored.

Accidents can be avoided by knowing and following the precautions cited in this manual.

GENERAL SAFETY

1. Read this manual thoroughly. Make sure the operator understands it and knows how to operate this equipment safely. This equipment can kill or injure an untrained or careless operator and bystanders. If you sell this equipment, ensure the new owner acknowledges receipt of this manual.
2. Make sure all safety guards are securely mounted in place before operating this spreader.
3. Do not attempt to handle or service this equipment, or direct others to do the same, unless you know how to do it safely and have the proper tools for the job.
4. Keep hands, feet, hair, and clothing away from moving parts. Flying material can cause bodily injury. Wear eye protection.
5. Do not alter the equipment to the extent of compromising safety or performance.
6. Material to be spread can be dangerous. Improper selection, application, use or handling may be a hazard to persons, vehicle or other property. Follow instructions and precautions given by the material manufacturer.
7. Do not over-load your vehicle beyond payload limits. If there are any questions, contact the vehicle manufacturer.
8. Do not use side extensions on your spreader to increase salt storage capacity. Using side extensions may damage hopper and cause injury to personnel.
9. Do not drive motor vehicle with spinner unlatched. Make sure spinner is fully engaged in its working position or damage to your spreader or spinner may occur.
10. Make sure the spreader is securely fastened to the vehicle in accordance with this manual.
11. Do not operate a spreader in need of maintenance or repair.

BEFORE OPERATION

1. Discipline yourself to visually check for worn, damaged or cracked parts before starting use. Replace these with genuine Hiniker parts.
2. Check all controls and operating functions of the machine in a safe area before starting to work.
3. Do not lubricate, adjust or clean the machine while it is running. After making adjustments, check machine thoroughly for loose parts, hardware and tools.
4. Always disconnect wiring harness before removing or replacing any electrical components.

DURING OPERATION

1. Drive carefully and always wear seat belts when operating a motor vehicle. Braking distance may be increased and handling characteristics impaired due to extra weight of spreader.
2. Ensure everyone is clear of the machine, especially away from blind areas of the operator, before starting or operating this equipment.
3. Stay out of hopper when conveyor power source is engaged. If machine becomes blocked, do not attempt to remove blockage until machine has been shut off and conveyor and spinner movement have stopped.

Use a shovel or other long-handled tool to reach inside the hopper. Never attempt to break up material inside the hopper with hands or feet.

4. Do not ride in any part of spreader while vehicle is in motion.
5. Set the brakes and stop the truck's engine before adjusting or servicing your spreader.

AFTER OPERATION

1. Inspect the spreader for components that have become excessively worn or damaged and must be repaired or replaced.
2. Develop a regular maintenance schedule to ensure safe, dependable spreader operation.

OPERATING PROCEDURES

GENERAL INFORMATION

Hiniker spreaders are capable of dispersing a variety of dry materials for control of ice on roadways, walkways and parking lots.

Vehicle load carrying capacity limits the maximum load that can be safely transported, which could be less than the volumetric capacity of the spreader. Check the vehicle's load rating certification sticker and DO NOT overload the vehicle beyond its Gross Vehicle Weight Rating (GVWR) or its Gross Axle Weight Rating (GAWR). Spreaders are recommended to be mounted on trucks over 8,500 lb. GVWR.

An alternator rated for 135 amps or higher is recommended.

Use the following tables to calculate vehicle payload when material is loaded in the spreader.

VOLUMETRIC CAPACITY: (Cubic Yards, Approx.)

	LEVEL	HEAPED
Standard 8' Box	1.8	2.27
Standard 6 1/2' Box	1.5	1.84

WEIGHT: (Pounds, Approx.)

8' SS Standard Box	515
6 1/2' SS Standard Box	467
Short Spinner Kit	70
Long Spinner Kit	80

MATERIAL WEIGHTS: (Pounds Per Cubic Yard, Approx)

Very Coarse Rock Salt	950
Coarse Rock Salt	1,215
Coarse Sand - Dry	2,565
Coarse Sand - Wet	3,240

Calculate total material weight by multiplying pounds per cubic yard by cubic yards of material.

Local, state and federal regulations may require flashing lights, center high mounted stop light, or other additional equipment for operation on public roadways. It is the owners responsibility to know and follow laws as they apply in his area.

Always examine the spreader for worn or damaged components prior to operation. During operation, listen for unusual noise from the spreader that might indicate component failure. Never run a machine in need of repair.

Start the spreader for a short period of time before loading material to test for proper function of moving parts.

After loading, run the spreader in an isolated area, clear of people, to become familiar with the controls and to verify the correct spread pattern.



WARNING: Stop the conveyor and set the vehicle parking brake before leaving the vehicle to make adjustments.

If loading the hopper the night before an impending snowfall or ice storm, park the spreader indoors, if possible, to help prevent freeze-up of material before morning.

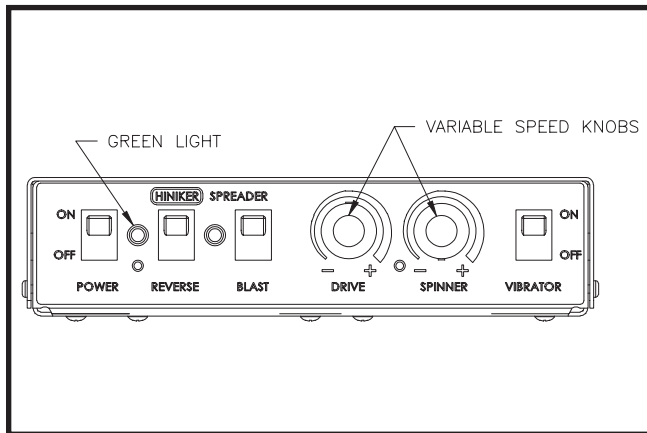
If the conveyor does not move because of dense material or a material jam, remove all material from the hopper.

If the material in the hopper freezes, move the spreader into a warm area to thaw.

To prevent material from freezing, do not store material in spreader.

Sander Control Box

The Hiniker controller is equipped with variable material feed and spinner speed, reverse, blast and a switch for the optional vibrator. The variable speed knobs are clearly marked with full counterclockwise (CCW) being minimum speed/power and full clockwise (CW) being maximum speed/power.



DWG. NO. 6738

To turn on the controller set the variable speed knobs for the material feed and spinner to the desired speed. Push the power button to the ON position. The green light next to the power switch will come on. The Hiniker controller will start for a few seconds at full speed to clear any jams or partially frozen material and then it will slow to the desired speed. The operator can then adjust the speed as necessary.

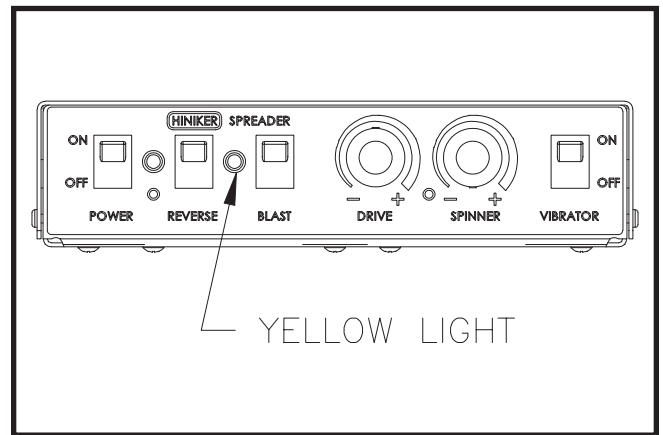
The optional vibrator will help keep a steady flow of material onto the spinner. It also slightly increases the rate at which the material is applied because the vibrator helps to put the maximum amount of material onto the conveying mechanism. This switch is recommended to be on when the hopper is getting close to empty.

The reverse button is for the material feed only. This feature is to help clear material feed drive jams/faults only. The spinner will not go into reverse as this feature is not designed to clear spinner jams/faults.

If the controller faults because of a material feed drive jam the reverse button can be pushed to clear the fault or held to try and clear the jam.

When the button is held, the material feed drive system moves in reverse for as long as the button is held. Once the reverse button is released the material feed drive system will attempt to resume going forward automatically.

The blast feature is used for slippery spots that need excess salt/sand. When the blast button is held down the material feed drive system runs at full power applying the maximum amount of material. Once the button is released the blast feature will stop, and normal preset application will resume.



DWG. NO. 6618

The Hiniker controller has safety features built into the controller to protect the electronic components. When a potential damaging occurrence happens the controller stops the two motors (fault). The yellow light on the controller will light up or blink when potentially damaging situations are present.

When the yellow light stays lit continuously there are two possible problems:

1. The material feed drive motor is drawing too many amps. This occurs when the drive system is jammed or frozen.
2. The controller temperature is too high. This happens when the controller is putting out near maximum power for an extended period of time or the controller is set near the heater.

6 Operating Procedures

If the light goes out when the reverse switch is pushed and the material feed drive motor starts running again, the drive system was drawing too many amps and a jam is/was present.

If the light remains on when the reverse button is pushed then it is a temperature fault and the controller is too hot. The controller then will not function and needs to be turned off and back on. If the controller is still too hot the light will come back on because of the temperature fault. The controller then should be turned off for an extended period and allowed to cool down in temperature.

When the motors stop and the yellow light is blinking the spinner has faulted and the controller needs to be turned off and the problem investigated. Once the jam is removed the controller can be turned on again.

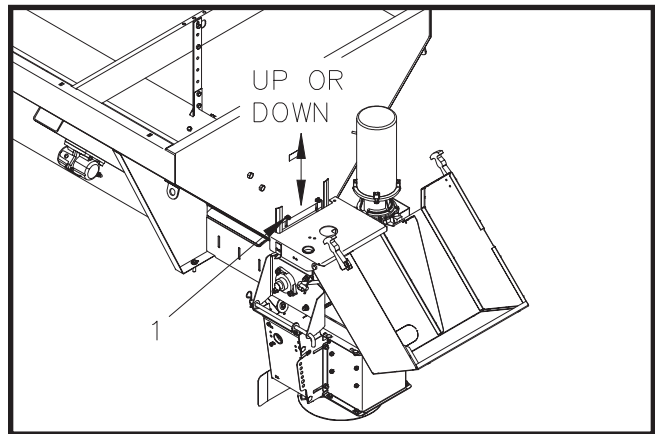
Spread Control

The spread pattern and thickness of material is controlled by (4) variables:

1. Drive Motor Speed:
A faster drive motor speed will deliver more material to the spinner.
2. Truck Speed:
The slower the truck travels, the more material covers the ground.
3. Spinner Motor Speed:
A faster spinner motor speed will produce a wider spread pattern producing a thinner material cover.
4. Gate Setting:
A higher gate setting allows more material to the spinner.

Gate Adjustment


The gate on the spreader can be adjusted by loosening the (2) nuts (item 1) at the rear of the spreader. Set the gate to the desired height and retighten the nuts.

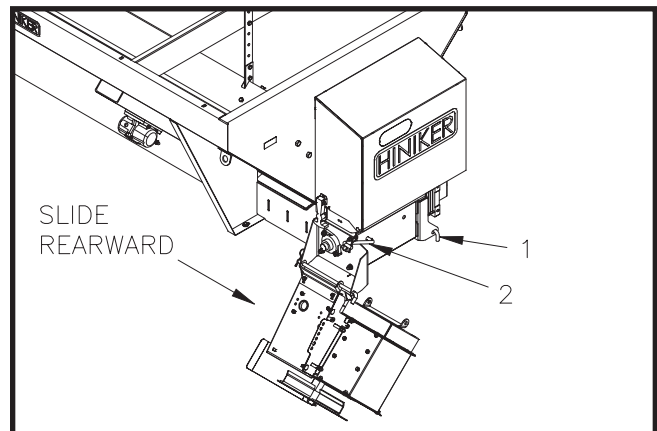


DWG. NO. 6724

Swing Away Chute

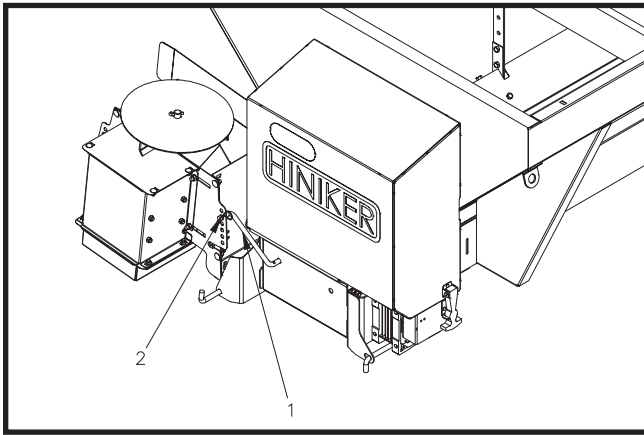
Hiniker spreaders are equipped with a swing away chute making cleaning of the hopper and storage much easier.

 **CAUTION: The swing away chute is for clean out and storage only. Do not drive the motor vehicle with swing away chute open or not fully engaged in its working position.**



DWG. NO. 6725

To utilize this option pull the pin (arrow 1) and allow the chute to swing open. Unplug the electrical connector. Slide the chute rearward about 2 1/2 inches. Pull the hair pin cotter from the formed rod (arrow 2).



DWG. NO. 6726

Rotate the chute assembly approximately 180 degrees. Insert the provided pin (arrow 1) into the hole (arrow 2) on body of the spinner. Insert the hair pin cotter into the pin hole to hold the chute in position. Hiniker wants to remind customers that the swing up position is only for storage and clean out purposes.

Do not drive motor vehicle with spinner in swing up position. Before driving motor vehicle, return spinner into its working position.

STORAGE

Store the spreader in a cool dry protected area when it will not be used for an extended period of time. Never attempt to remove spreader with material in hopper. Perform the following maintenance procedures at the end of the season to ensure that the machine remains in good operating condition.

1. Unload hopper completely and wash the spreader to flush out any remaining material to prevent material buildup. Do not pressure wash motor or electrical components or damage will occur.
2. Disconnect and remove controller from the spreader. Store in a cool dry place. The summer temperatures and climate could damage circuit boards and void warranty.





3. Apply a light coat of dielectric grease to all electrical terminals, and cap or tape loose terminals to prevent damage or corrosion.
4. Inspect for worn or damaged components. Repair or replace as needed.
5. Grease all bearings. Grease points are identified in the Maintenance & Service section of this manual.
6. Oil conveyor and roller chains.

MAINTENANCE & SERVICE PROCEDURES

Dependable spreader operation is the result of following good maintenance procedures. Inspect your spreader frequently to ensure that all parts are working smoothly, and develop a schedule for maintenance at required intervals.

GENERAL

Always disconnect power from wiring harness before servicing or replacing any electrical components. Prior to operation of a new spreader, or one that has been stored, inspect all hardware and verify proper torque on all bolts and nuts in accordance with the recommended torque specifications.

STANDARD MARKINGS AND TORQUE SPECIFICATIONS			
Manufacturer marks may vary. These are all SAE Grade 5 (3 - line). 			
SAE Grade Number	1 or 2	5	8
Capscrew Head Markings			

DWG. NO. 1935

TABLE 1 RECOMMENDED TORQUE VALUES FOR INCH FASTENERS (ZINC COATING & LUBRICATED)**				
Nominal Size	SAE 5 120,000 psi Min Tensile Str lbf - ft		SAE 8 150,000 psi Min Tensile Str lbf - ft	
	Dry	Lubricated	Dry	Lubricated
1/4-20	8	6	12	9
5/16-18	17	13	25	18
3/8-16	30	23	45	35
1/2-13	75	55	110	80
5/8-11	150	110	220	170

** MACHINE DESIGN FASTENER AND JOINT REFERENCE ISSUE

SET SCREW SEATING TORQUE

Socket Head	Torque In.-lbs. (Ft.-lbs)	Torque N-m
#8	20 (1.6)	2.25
#10	36 (3)	4
1/4	87 (7.25)	9.8
5/16	165 (13.5)	18.6
Square Head		
#10	100 (8.8)	11.3
1/4	212 (17.7)	24
5/16	420 (35)	47.5

Loose bolts can cause hole elongation and part failure resulting in dangerous operating conditions and equipment breakdown.

Check all hardware periodically during operation and keep tightened to specified torques. Replace worn bolts and locknuts with Grade 5 bolts and equivalent type B or F locknuts. Type B locknuts are plain hex; type F locknuts are flanged hex.

Apply a light coat of dielectric grease to all electrical connectors to prevent corrosion of contacts when the connectors are unplugged, and to make connecting and disconnecting plugs easier.

Remove all material from hopper and wash salt and dirt off spreader before storage. Do not pressure wash motor or electrical components or damage will occur.

Never leave material in hopper for extended period of time. Material may freeze and seriously damage spreader.

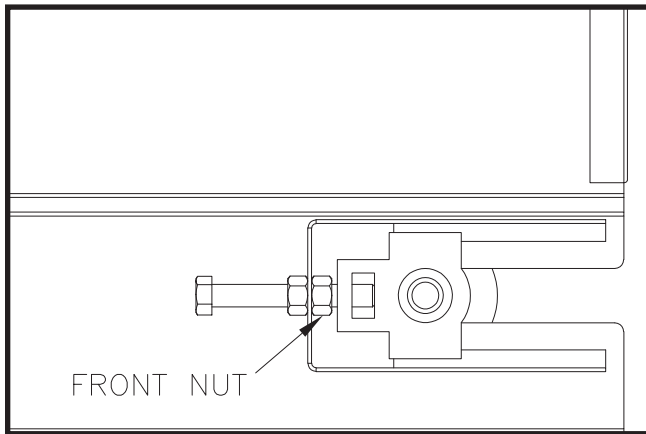
Controller is not serviceable. If controller does not function a new one must be purchased.

CHAIN TENSION

At the beginning of each season, and once a month during the season, verify spinner sprocket set screws are tight.

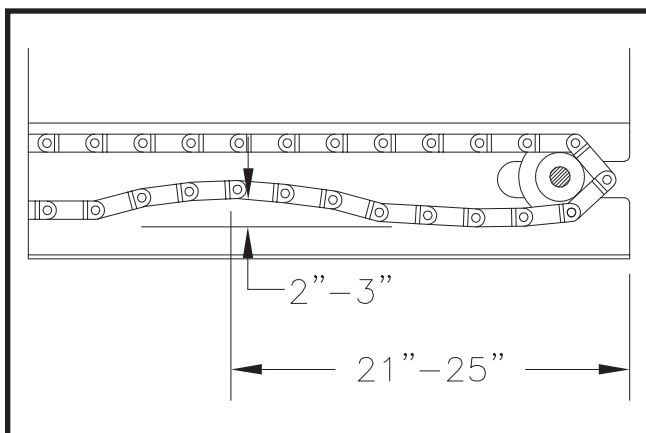


CAUTION: Over-tightening the roller chain will draw more power and may damage the bearings on the motor and/or the spinner shaft. Over-tightening will also shorten the life of the roller chain and sprockets.



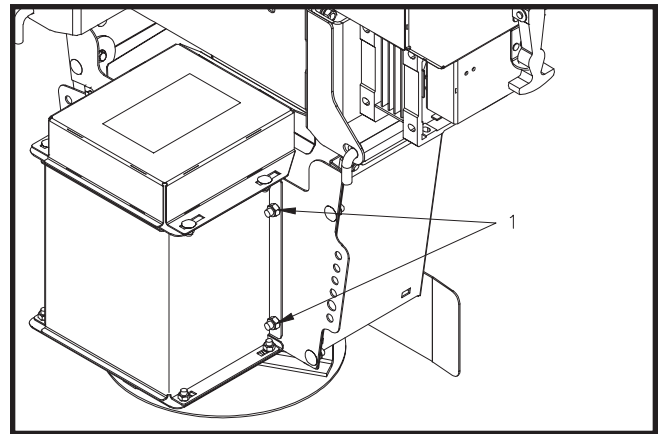
DWG. NO. 6026

When tightening the conveyor chain, adjust both sides the same amount to equalize the load on the chain. Loosen the front nut, then turn the adjustment bolt to take up the slack.



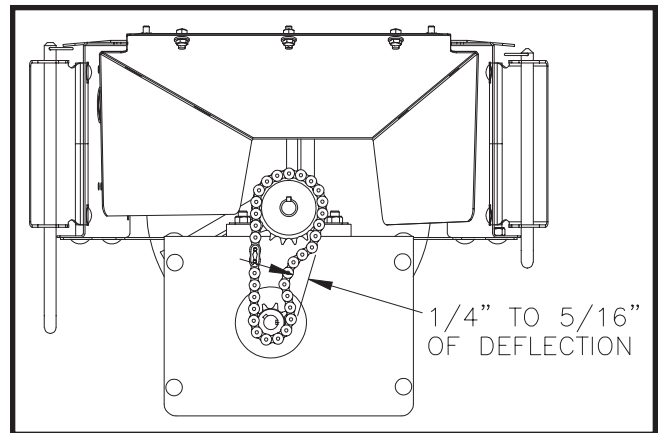
DWG. NO. 6596

Retighten the front nut after the chain is adjusted. A properly tensioned chain can be pulled up 2-3 inches about 24 inches from the back of the spreader side rails. A chain that is too tight will draw more power and cause excess stress on drive components.



DWG. NO. 6727

To adjust tension in the spinner chain, loosen the four nuts at location 1. Slide the entire motor assembly away from the spinner shaft (toward left side of the machine) and retighten nuts.



DWG. NO. 6639

Correct chain tension allows 1/4" to 5/16" deflection midway between sprockets.

LUBRICATION



CAUTION: Do not lubricate, adjust or clean the machine while it is running. Death or serious injury can result.

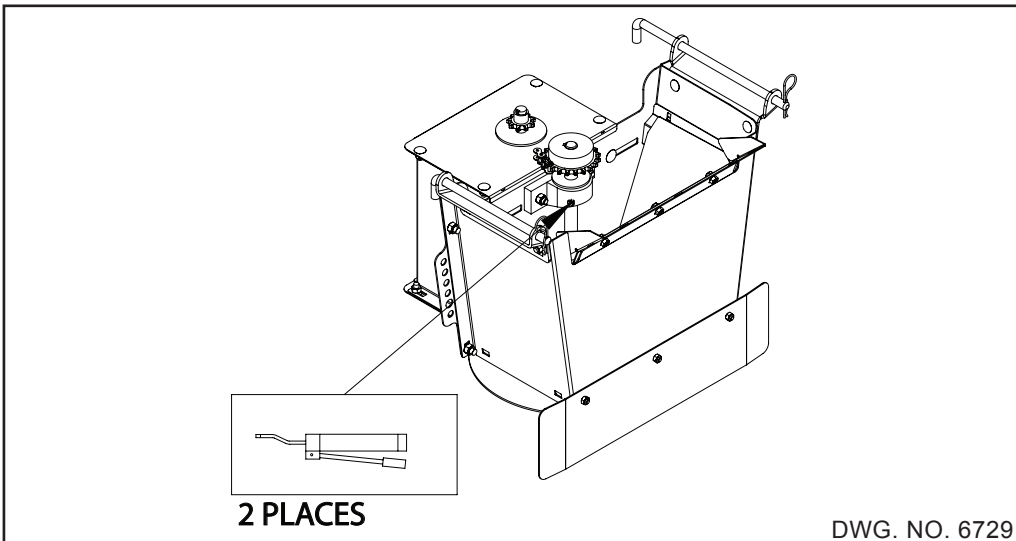
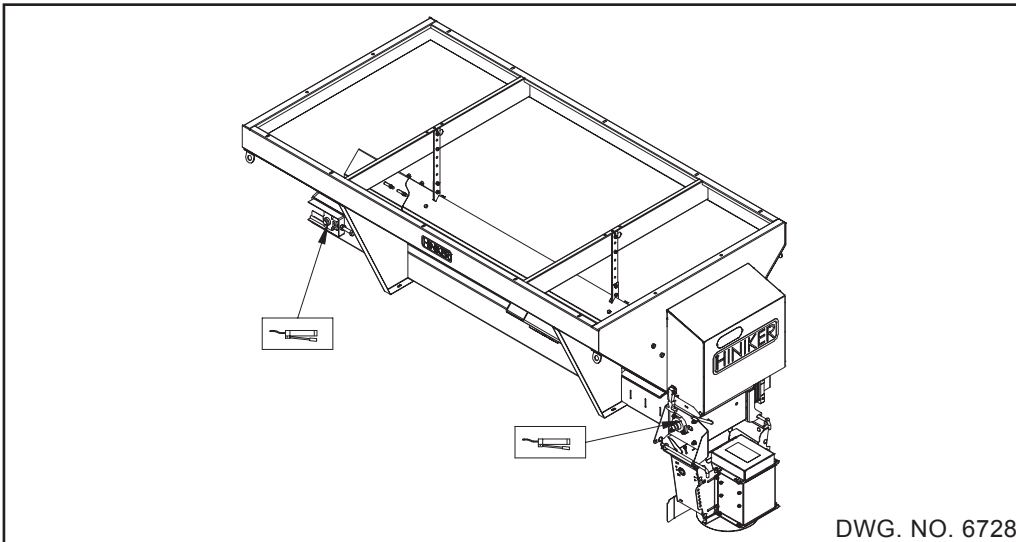
Prior to operation of a new machine, or one that has been stored, grease all bearing points with a high quality SAE multi-purpose grease and oil the roller chains.

Throughout the season, grease the idler and drive shaft bearings at about 20 hour intervals and oil roller chains often. Grease the spinner bearings every 10 hours of operation.

NOTE: Over-greasing may cause seal damage to bearings. Use only one pump of grease per fitting.

Grease the machine in accordance with the drawings below.

GREASE POINT LOCATIONS



TROUBLE SHOOTING

Preliminary Checks:

- Be sure all electrical connections are tight and clean.
- Be sure nothing is jammed in the hopper or spinner.

PROBLEM	POSSIBLE CAUSE	REMEDY
No power to cab Power switched to ON position No illumination of indicator light	Controller plug is loose	Check plug connection at cab control
	Blown fuse	Replace fuse
	Faulty battery	Check battery voltage should be between 13 - 15 Volts with vehicle running
Control Dial does not change speed Controller does not function	Vehicle wiring harness damaged between battery and controller	Repair/Replace damaged wires or harness as required.
	Malfunctioning cab control	Replace controller
Controller/Material feed motor does not operate Indicator light (yellow light) illuminated constantly	Wiring harness is damaged or has a short between cab control and spreader	Check plug connections at cab controller and spreader motors
	Material feed jam	Remove obstruction
	Frozen material	Thaw material
Controller/Spinner motor does not operate Indicator light (yellow light) illuminated blinking	Controller overheated	Turn off controller let cool and turn on again
	Spinner jam	Remove obstruction
Spinner Motor does not turn (Material feed motor is running)	Obstruction preventing rotation	Remove obstruction
	Sprocket loose on spinner shaft	Tighten set screw of sprocket
	Loose chain	Check and tighten chain
	Spinner bearings are dry or seized	Grease or replace bearings

PROBLEM	POSSIBLE CAUSE	REMEDY
Material feed Motor does not turn (Spinner motor is running)	Obstruction preventing rotation	Remove obstruction
	Gearbox is damaged	Replace gearbox if output shaft does not turn when motor runs/tries running
	Material feed chain is loose/damaged	Adjust material feed chain tension or replace
	Material feed bearings are seized or damaged	Grease or replace bearings
Motor doesn't run	Loose electrical connections	Check/tighten all connections
	Jammed material feed/spinner	Remove obstruction
	Motor seized	Replace motor
Material not flowing from hopper	Wet or Frozen material	Replace with Dry material
	Material feed jammed	Remove obstruction
	Material bridge	Remove bridge

INSTALLATION INSTRUCTIONS

STANDARD MARKINGS AND TORQUE SPECIFICATIONS			
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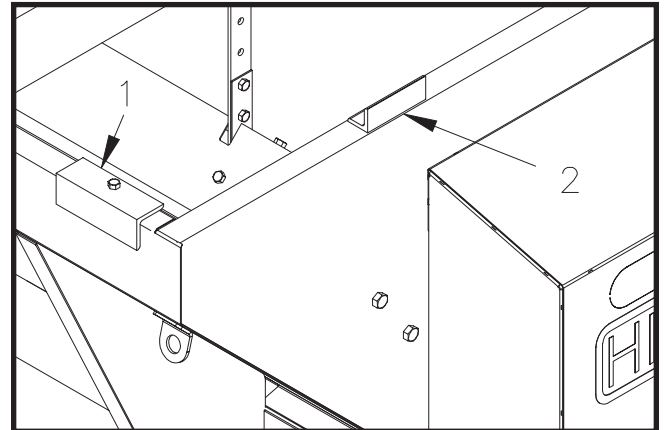
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Square Head		
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MOUNTING THE SPREADER

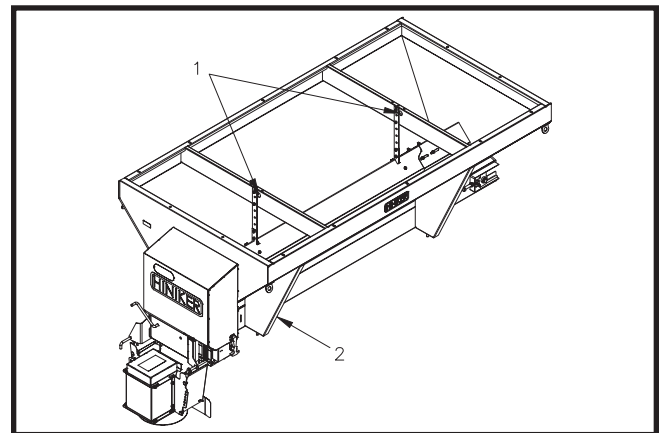
1. Remove the tailgate from the truck according to instructions from the vehicle manufacturer.



DWG. NO. 6734

2. Remove shipping brackets from hopper top (arrow 1 & 2).

WARNING: Never attempt to lift a spreader with material in the hopper. The lifting device must be adequately rated to lift a payload equal to or greater than the spreader weight. See the "Specifications" section for proper spreader weight.



DWG. NO. 6730

3. Lift the spreader by hooking the slots (arrow 1) in the hopper cross members.
4. Center the spreader on the truck with the rear rails extending behind the furthest point of interference (back of the truck, bumper, trailer hitch, etc.) Verify the rear legs (arrow 2) of the spreader rest securely on the bed of the truck.

Place lumber as needed between the back of the truck cab and the front of the spreader to help hold the sander in position and protect the truck from damage due to shifting of the spreader.

For conveyor sanders placing lumber under the spreader center and side gussets will help with removal of excess material that accumulates under the spreader.

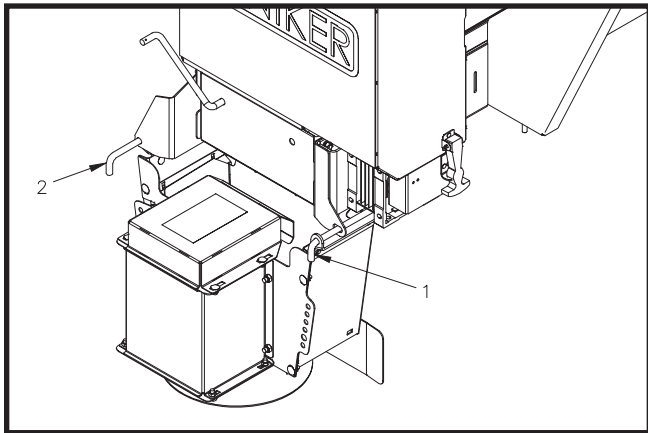
- Attach the sander to the truck bed using 3/8" hardware through the slot in the sanders (4) legs. Ratchet tie-down straps must be used to secure the spreaders (4) tie down eyes located at each corner of the spreader to the vehicles factory installed anchor points.

Ratchet tie down straps must be used to properly secure hopper to vehicle. Do not use cam buckle or other forms of straps where adequate tension to secure hopper against load shifting cannot be achieved.

NOTE: Inspect hold-downs and tie down straps periodically for wear or loosening, and retighten or repair as required.

Do not add side extensions to the spreader.

CHUTE ASSEMBLY



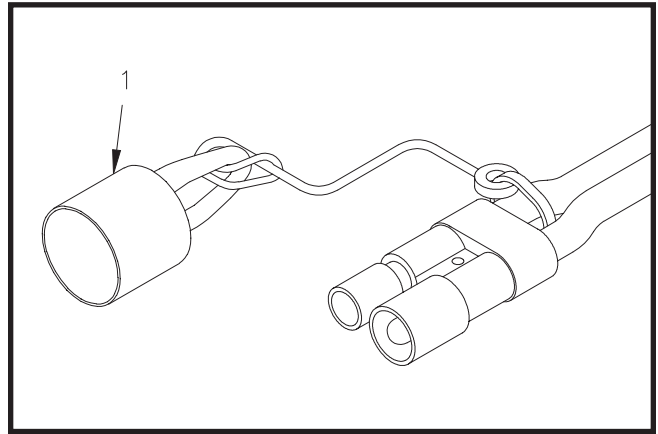
DWG. NO. 6731

- Attach the chute assembly to the spreader by inserting the pins through the clevis and chute hinge at locations 1 and 2.

CONTROL BOX AND VEHICLE WIRING INSTALLATION

Locate the parts box that was shipped with the spreader. This contains all of the wiring harness and electrical controller components.

To insure good performance of your spreader, check the condition of trucks electrical system. Using a voltmeter, check alternator and battery voltage. With engine running and headlights and heater fan on good voltage reading should fall between 13.0 and 15.3 volts. If the reading falls out of this range, check and adjust your electrical system.



DWG. NO. 6737

Use the provided nylon lanyards and zip ties to attach the dust caps (arrow 1) to the drive motor cable ends. Refer to drawing 6624 for dust cap locations.

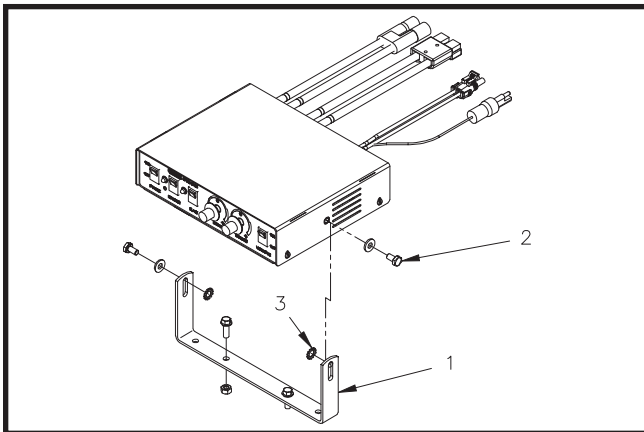
Refer to drawing 6624. Layout a wiring path for the vehicle wiring harness. Connect the wiring harness connectors to their mating connectors on the drive motor, spinner motor, and vibrator. Drill all necessary holes or use existing ones to pass the connectors into the truck cab. Attach harness to truck frame. Do not route wiring harness near exhaust system, harness may melt and short electrical system.

Mount the controller mounting bracket in a convenient location in the truck cab. Do not mount the controller directly in front of the heater vents, this will raise temperature of controller significantly and may cause damage to your spreader controller.

Do not install controller in the deployment path of an air bag. Refer to vehicle manufacturers manual for air bag deployment areas.

Refer to drawing 6732. Assemble the controller onto the controller mounting bracket (arrow 1) using the 1/4 x 1/2 cap screws (arrow 2).

Assemble the flat washer on the outside of the bracket and the external tooth lock washer between the controller and mounting bracket (arrow 3).



DWG. NO. 6732

Attach the mating connectors between the wiring harness and the cab controller.

CAUTION: Make sure power switch on controller is off before connecting power cable.

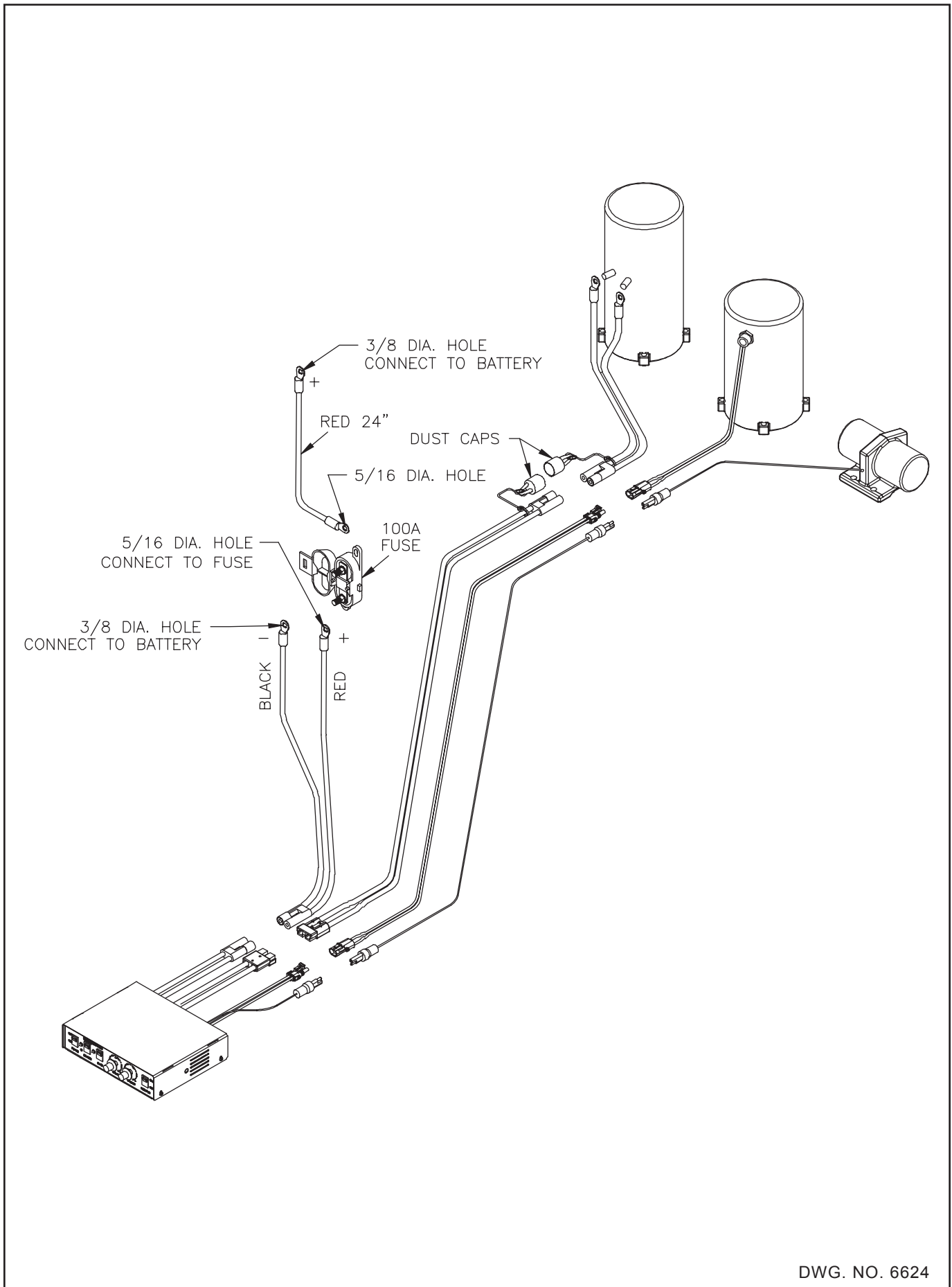
Layout a path for the power cable in the truck's engine compartment. Drill a hole in the firewall or use an existing one to pass wiring harness. It is recommended to pass the power cable from the inside of the cab to the battery due to the large high amperage connector. Do not route close to exhaust system, harness may melt and short electrical system.

Mount the fuse holder in a convenient location. Remove the nuts on the fuse holder assembly and insert the 100 amp fuse.

Refer to drawing 6624. Connect the black lead to the battery ground (-) terminal. The red (red stripe) is attached to the fuse holder assembly. Connect the 24" red wire from the fuse assembly to the positive (+) post of the battery.

Connect the power cable to the controller.

Push the on/off button on controller to check for power. When power has been confirmed turn power off, the electrical installation is complete. Refer to "Operating Procedures Section" for more information on controller function.



SPECIFICATIONS

DIMENSIONS:	(835) 8 FT. HOPPER	(635) 6 1/2 FT. HOPPER
Length Inside	95 3/8 In.	77 3/8 In.
Length Overall	115 In.	97 In.
Width	50 1/2 In.	50 1/2 In.
Height	32 1/4 In.	32 1/4 In.
CAPACITY: Cubic Yards		
Level	1.8	1.5
Heaped	2.27	1.84
Weight: Model Hopper Only	515 lbs. (Approximately)	467 lbs. (Approximately)
CONVEYOR:		
Trough Width:	13 Inches	
Flight Bars:	3/16" x 3/4" on 11 9/16 Inch Centers	
Model 635 & 835 Electric Drive		
Drive Motor	3/4 HP DC Electric Motor	
SPINNER:		
Spinner Motor	1/3 HP DC Electric Motor	
Disc Diameter:	12 Inches	
Shaft Diameter:	3/4 Inch	
Spreader Pattern	8 - 40 Feet	
ELECTRICAL COMPONENTS:		
Fuse	100 AMP Bussman BK/AMG-100	

HINIKER WARRANTY

HINIKER SPREADER LIMITED WARRANTY

The only warranty Hiniker Company (Hiniker) gives and the only warranty that any Hiniker dealer is authorized to give on behalf of Hiniker is as follows: **(NO EMPLOYEE OR REPRESENTATIVE IS AUTHORIZED TO CHANGE THIS WARRANTY IN ANY WAY OR GRANT ANY OTHER WARRANTY.)**

Hiniker warrants to the original purchaser of a Hiniker spreader that Hiniker will repair or replace any defects in material and workmanship that occur within two years from date of retail delivery except the following items: Hiniker warrants that it will repair or replace any defects in materials or workmanship with respect to the paint finish, any accessories, and service parts and components for a period of one year from date of retail delivery.

Hiniker's obligation and liability under this warranty is expressly limited to repairing or replacing, at Hiniker's option, at an authorized Hiniker dealer location, the defective parts at no charge to the original purchaser. **HINIKER MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED AND MAKES NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR ANY PARTICULAR PURPOSE.**

HINIKER'S OBLIGATION UNDER THIS WARRANTY SHALL NOT INCLUDE ANY TRANSPORTATION CHARGES TO OR FROM THE AUTHORIZED HINIKER DEALER LOCATION OR ANY LIABILITY FOR INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGE OR DAMAGES OF ANY KIND FOR LOST PROFITS OR DELAY. If requested by Hiniker, products or parts for which a warranty claim is made are to be returned freight prepaid to our factory. Any improper use, operation beyond rated capacity, substitution of parts not approved by Hiniker Company, or any alteration or repair in such manner as in our judgment affects the product materially and adversely shall void this warranty.

Hiniker reserves the right to make improvements or changes to any of its products without notice. Such improvements or changes shall not trigger any obligation by Hiniker to update, modify or change any products previously sold by Hiniker.

HINIKER does not warrant the following:

1. The electric motor. (The electric motor warranty is the responsibility of the electric motor manufacturer.)
2. Used products.
3. Any product that has been repaired, modified or altered in a way not approved by Hiniker Company.
4. Depreciation or damage caused by normal wear, lack of reasonable and proper maintenance, failure to follow Operators Manual Instructions, misuse, lack of proper protection during storage, or accident.
5. Parts replacement and service necessitated by normal wear or maintenance including, but not limited to, conveyor chain, roller chain, bearings, and spinner disc.
6. Paint finish damage caused by normal wear.

Hiniker does not assume any liability for any damage to a motor vehicle resulting from the attachment or use of a Hiniker spreader. Compliance with applicable motor vehicle regulations is the responsibility of the installer. Attachment of a Hiniker spreader to a motor vehicle is at the risk of the purchaser.

It is the responsibility of the original spreader purchaser to verify the original date of purchase.

A DELIVERY REPORT FORM must be filled out and received by Hiniker with 30 days of retail delivery at the address below to initiate the warranty coverage.

**HINIKER COMPANY
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