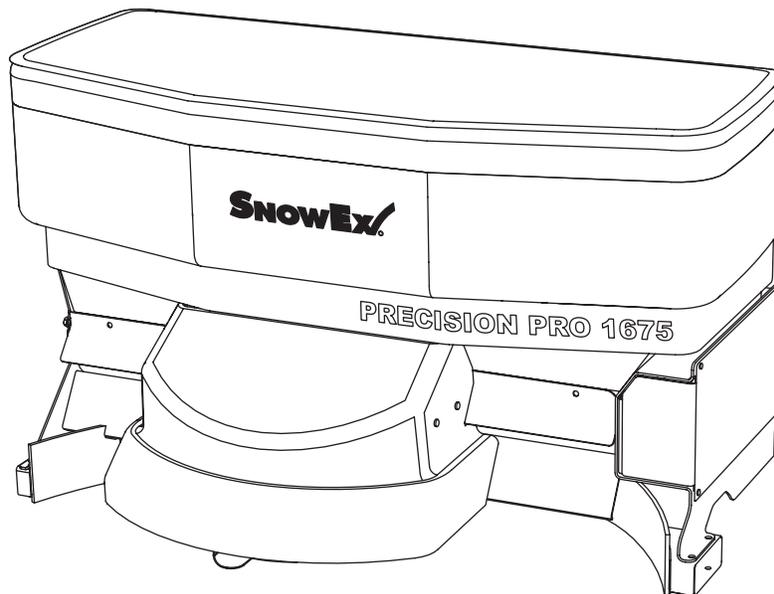




Precision Pro Spreader SP-1675

Owner's Manual
Original Instructions



▲ CAUTION

Read this document before operating or
servicing spreader.

This Owner's Manual is for SP-1675 Precision Pro spreaders
with serial numbers X4-100000 to X4-999999,
and serial numbers beginning with 150918 and higher.

This document supersedes all editions with an earlier date.

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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 tailgate spreader. Keep this manual accessible. It is a handy reference in case minor service is required.

When service is necessary, bring your tailgate spreader to your distributor. 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.

Register your spreader online at www.snowexproducts.com

OWNER'S INFORMATION

Owner's Name: _____

Date Purchased: _____

Distributor Name: _____ Phone: _____

Distributor Address: _____

Vehicle Model: _____ Year: _____

Spreader Model: _____ Serial #: _____

Spreader Weight: _____ lb/kg

SAFETY

SAFETY DEFINITIONS

⚠ WARNING

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

⚠ CAUTION

Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

NOTE: Indicates a situation or action that can lead to damage to your spreader and vehicle or other property. Other useful information can also be described.

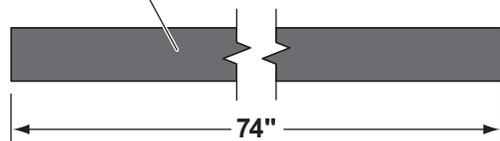
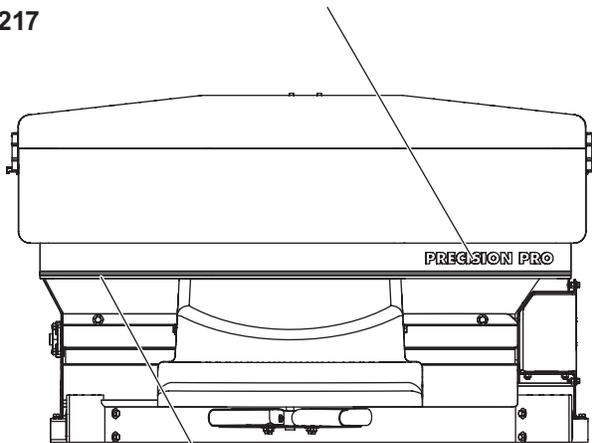
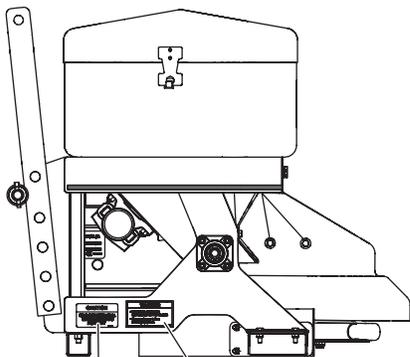
WARNING/CAUTION LABELS

Become familiar with and inform users about the warning and caution labels on the spreader.

NOTE: If labels are missing or cannot be read, see your sales outlet.

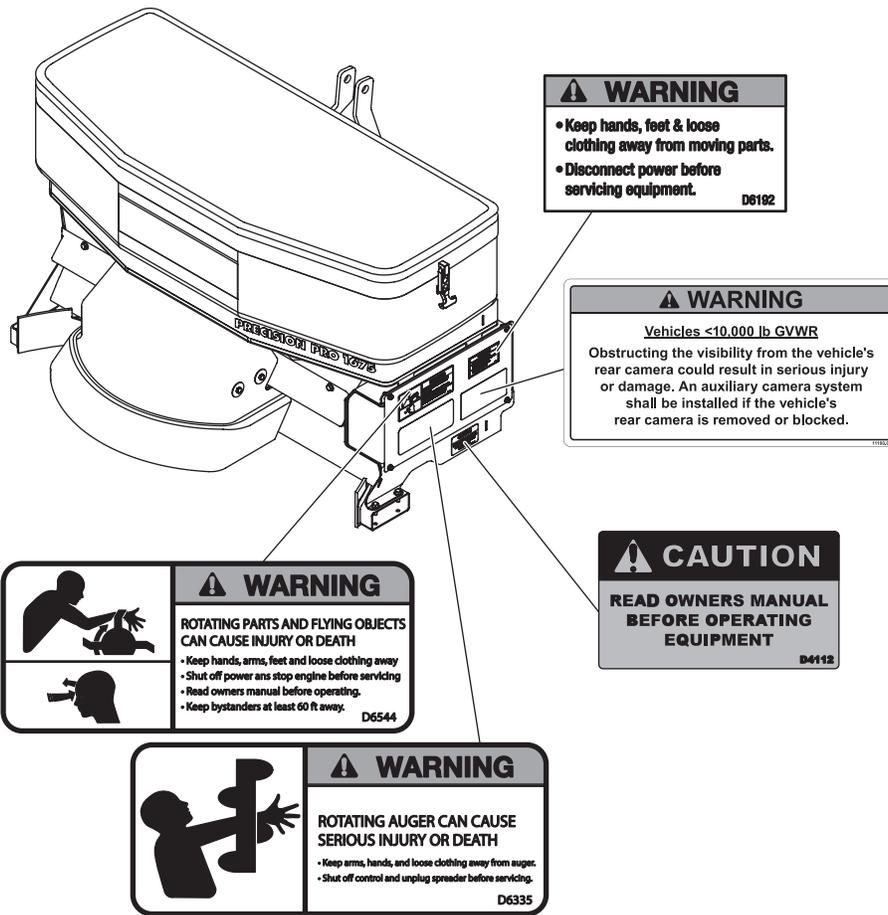
PRECISION PRO 1675

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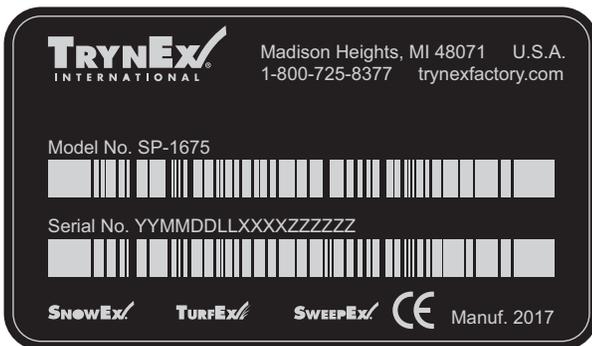


D6229-74 [SP-1675]

SAFETY



SERIAL NUMBER LABEL (PLATE)



Code	Definition
YY	2-Digit Year
MM	2-Digit Month
DD	2-Digit Day
LL	2-Digit Location Code
XXXX	4-Digit Sequential Number
ZZZZZ	5- to 7-Digit Assembly PN

SERIAL NUMBER LABEL (CONTROL)



SAFETY

SAFETY PRECAUTIONS

Improper installation and operation could cause personal injury and/or equipment and property damage. Read and understand labels and the Owner's Manual before installing, operating, or making adjustments.

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 that all safety guards are in place.
- Before servicing the spreader, wait for conveyor, auger, and 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 vehicle door cornerpost. See Loading section to determine maximum volumes of spreading material.

WARNING

Do not install the control for this product in the deployment path of an air bag. Refer to vehicle manufacturer's manual for air bag deployment area(s).

WARNING

Vehicles <10,000 lb GVWR: Obstructing the visibility from the vehicle's rear camera could result in serious injury or damage. An auxiliary camera system shall be installed if the vehicle's rear camera is removed or blocked.

CAUTION

If rear directional, CHMSL light, or brake stoplights are obstructed by the spreader, the lights shall be relocated, or auxiliary directional or brake stoplights shall be installed.

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.
- Before operating the spreader, read the engine owner's manual, if so equipped.
- 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.

CAUTION

Disconnect electric and/or hydraulic power 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: Lubricate grease fittings after each use. Use a good quality multipurpose grease.

FUSES

The electrical system contains several automotive-style fuses. If a problem should occur and fuse replacement is necessary, the replacement fuse must be of the same type and amperage rating as the original. Installing a fuse with a higher rating can damage the system and could start a fire. Fuse Replacement, including fuse ratings and locations, is located in the Maintenance section of this Owner's Manual.

SAFETY

PERSONAL SAFETY

- Remove ignition key and put the vehicle in PARK or in gear to prevent others from starting the vehicle during installation or service.
- Wear only snug-fitting clothing while working on your vehicle or spreader.
- Do not wear jewelry or a necktie, and secure long hair.
- Wear safety goggles to protect your eyes from battery acid, gasoline, dirt, and dust.
- Avoid touching hot surfaces such as the engine, radiator, hoses, and exhaust pipes.
- Always have a fire extinguisher rated BC handy, for flammable liquids and electrical fires.

WARNING

Gasoline is highly flammable and gasoline vapor is explosive. Never smoke while working on vehicle. Keep all open flames away from gasoline tank and lines. Wipe up any spilled gasoline immediately.

FIRE AND EXPLOSION

Be careful when using gasoline. Do not use gasoline to clean parts. Store only in approved containers away from sources of heat or flame.

CELL PHONES

A driver's first responsibility is the safe operation of the vehicle. The most important thing you can do to prevent a crash is to avoid distractions and pay attention to the road. Wait until it is safe to operate mobile communication equipment such as cell phones, text messaging devices, pagers, or two-way radios.

VENTILATION

WARNING

Vehicle exhaust contains lethal fumes. Breathing these fumes, even in low concentrations, can cause death. Never operate a vehicle in an enclosed area without venting exhaust to the outside.

BATTERY SAFETY

CAUTION

Batteries normally produce explosive gases which can cause personal injury. Therefore, do not allow flames, sparks, or lit tobacco to come near the battery. When charging or working near a battery, always cover your face and protect your eyes, and also provide ventilation.

- Batteries contain sulfuric acid, which burns skin, eyes, and clothing.
- Disconnect the battery before removing or replacing any electrical components.

NOISE

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

VIBRATION

Operating spreader vibration does not exceed 2.5 m/s² to the hand-arm or 0.5 m/s² to the whole body.

SAFETY

TORQUE CHART

⚠ CAUTION

Read instructions before assembling. Fasteners should be finger tight until instructed to tighten according to the Torque Chart. Use standard methods and practices when attaching spreader, including proper personal protective safety equipment.

Recommended Fastener Torque Chart

Inch Fasteners Grade 5 and Grade 8

Size	Torque (ft-lb)		Size	Torque (ft-lb)	
	 Grade 5	 Grade 8		 Grade 5	 Grade 8
1/4-20	8.4	11.9	9/16-12	109	154
1/4-28	9.7	13.7	9/16-18	121	171
5/16-18	17.4	24.6	5/8-11	150	212
5/16-24	19.2	27.3	5/8-18	170	240
3/8-16	30.8	43.6	3/4-10	269	376
3/8-24	35.0	49.4	3/4-16	297	420
7/16-14	49.4	69.8	7/8-9	429	606
7/16-20	55.2	77.9	7/8-14	474	669
1/2-13	75.3	106.4	1-8	644	909
1/2-20	85.0	120.0	1-12	704	995

Metric Fasteners Class 8.8 and 10.9

Size	Torque (ft-lb)		Size	Torque (ft-lb)	
	 Class 8.8	 Class 10.9		 Class 8.8	 Class 10.9
M6 x 1.00	7.7	11.1	M20 x 2.50	325	450
M8 x 1.25	19.5	26.9	M22 x 2.50	428	613
M10 x 1.50	38.5	53.3	M24 x 3.00	562	778
M12 x 1.75	67	93	M27 x 3.00	796	1139
M14 x 2.00	107	148	M30 x 3.50	1117	1545
M16 x 2.00	167	231	M33 x 3.50	1468	2101
M18 x 2.50	222	318	M36 x 4.00	1952	2701

These torque values apply to fasteners except those noted in the instructions.

LOADING

This Owner's Manual covers vehicles that have been recommended for carrying the tailgate spreader. Please see your local dealer for proper vehicle applications.

CERTIFICATION

⚠ WARNING

New untitled vehicle installation of a spreader requires National Highway Traffic Safety Administration altered vehicle certification labeling. Installer to verify that struck load of snow or ice control material does not exceed GVWR or GAWR rating label and complies with FMVSS.

⚠ WARNING

The use of under-frame or in-bed mounts on half-ton trucks is restricted to spreading only salt or calcium chloride. (Max. 80 lb per cu ft.) Failure to comply could result in exceeding the payload capacity.

⚠ WARNING

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

⚠ CAUTION

Never use wet materials or materials with foreign debris with any of these spreaders. These units are designed to handle dry, clean, free flowing material.

⚠ CAUTION



Read and adhere to manufacturer's ice-control material package labeling, including Material Safety Data Sheet requirements.

MATERIAL WEIGHTS

Material	Density		
	(lb/ft ³)	(lb/yd ³)	(kg/m ³)
Salt	80	2160	1282
Sand	100	2700	1602

Material densities are approximate and are based on dry, loose material. It is the responsibility of the operator to know the weight of the material to be spread and the vehicle carrying capacity.

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

SPREADER SPECIFICATIONS

Model	Overall Length (in)	Overall Height (in)	Empty Weight (lb)	Overall Width (in)	Hopper Width (in)	Capacity Struck (ft ³)
SP-1675	30	30	290	49-1/2	48	6.0

Leave the screen in the hopper when loading the spreader to prevent large chunks of material and large objects from entering the hopper and damaging the spreader.

LOADING

DETERMINING VEHICLE PAYLOAD

⚠ 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.

1. Install the spreader and optional equipment according to the installation instructions.
2. Install or attach any other equipment that will be on the vehicle while the spreader will be in use (step bumper, trailer hitch, snowplows, etc.). Fill gas tanks.
3. Obtain the Gross Vehicle Weight Rating (GVWR), Front Gross Axle Weight Rating (FGAWR), and Rear Gross Axle Weight Rating (RGAWR) from the certification label located inside the driver-side door jamb or door.
4. With the occupants in the vehicle for normal spreader operation, weigh the vehicle to obtain gross vehicle weight (GVW).
5. Subtract the GVW from the GVWR to determine the available material payload.
6. Obtain the weight per cubic foot (lb/ft³) of the desired material. Divide the weight into the payload to determine the maximum volume of material that can be carried.
7. Compare the maximum volume to determine the maximum height of the material in the spreader.
8. Fill the hopper with material to the calculated level. Reweigh the vehicle with occupants and verify that the Loaded Gross Vehicle Weight, Front Gross Axle Weight, and Rear Gross Axle Weight are less than the vehicle's ratings.
9. Repeat Steps 6–8 for each type of material.

MOUNTING THE SPREADER

ATTACHING TO VEHICLE

⚠ CAUTION

Before lifting, verify that the hopper is empty of material. The lifting device must be able to support the spreader's weight as shown in the spreader specifications table.

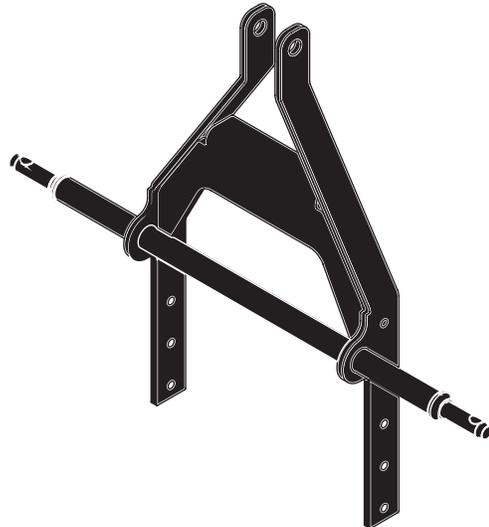
If you are using a TPR-020-1 Hitch Adapter (not included with the SP-1675 spreader): Insert the hitch into the receiver. Lock with the hitch pin and clip (included with PN TPR-020-1). Plug the spreader harness in to the vehicle plug.

To attach the spreader to a 3-Point Mount:

Simply back up to the spreader frame. Lower the hitch until the lower arms are at the same height as the pins on the frame. Remove the linchpins from the lift pin. Slide the arms onto the pins, and put the linchpin through the lift pin. Tie the top link to spreader frame with the hitch pin. Secure with hitch clip. Plug in and begin spreading.



TPR-020-1 Hitch Adapter



TPD-020-1 3-Point Mount



Adjust the top link so the spreader is vertical.



View of attachment points.

OPERATING THE SPREADER – CONTROL

⚠ WARNING

Never operate equipment when under the influence of alcohol, drugs, or medications that might alter your judgment and/or reaction time.

⚠ WARNING

Never exceed 45 mph (72 km/h) when loaded spreader is attached to vehicle. Braking distances may be increased and handling characteristics may be impaired at speeds above 45 mph (72 km/h).

⚠ WARNING

Never allow children to operate or climb on equipment.

Adjust SPINNER and AUGER speeds with the two knobs. Speed will be displayed on the screens. Adjust to get the desired spread width and application rate or "Spread Pattern."

Use the vibrator to loosen bridged material and improved flow to the auger with the VIBRATE switch. The vibrator does not have to be on continuously.

Turn the spreader OFF with the POWER switch when you are done spreading, or need to pause. The spread pattern will not change as long as the knobs are left in the same position.

NOTE: The vehicle ignition must be ON to start the spreader.

NOTE: If vehicle ignition is turned OFF while spreader is running, the motors will stop.

POWERING THE CONTROL

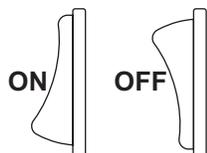
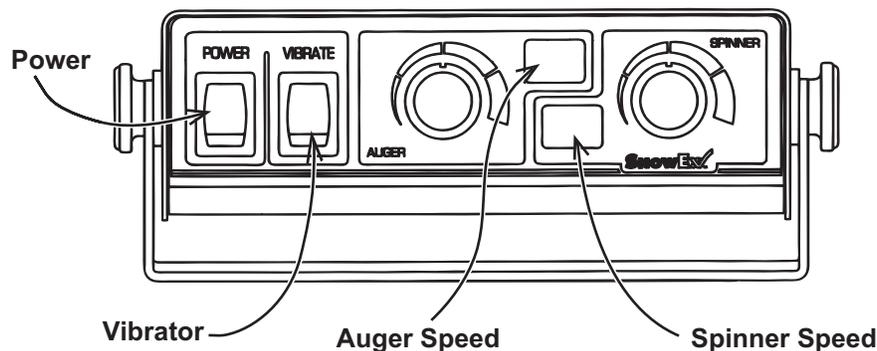
Power is not applied to the control until the vehicle ignition is turned to ACC or ON.

STARTING AND STOPPING SPREADER

⚠ WARNING

Before starting the spreader, the driver shall verify that all bystanders are a minimum of 25 feet away from operating spreader.

To start the spreader, press the POWER switch.



OPERATING THE SPREADER

SPREADING TIPS

- Spread ice melters with the storm to prevent unmanageable levels of ice.
- Never exceed 10 mph (16 km/h) when spreading.
- For a wider pass, increase spinner speed.
- For a heavier pass, drive slower or increase auger speed.
- Never operate spreader near pedestrians or pets.
- Calculate spread pattern when near vegetation.

NOTE: The spinner motor is not designed for continuous duty. Allow the motor to cool between long cycle times.

The application rate, which is the amount of material spread on a given area, depends on three variables: vehicle speed, spinner speed, and auger speed.

For consistency in spreading results, it is best to drive at a constant speed.

The spinner speed changes the spread width. This determines how much area the same material fed by the auger will cover.

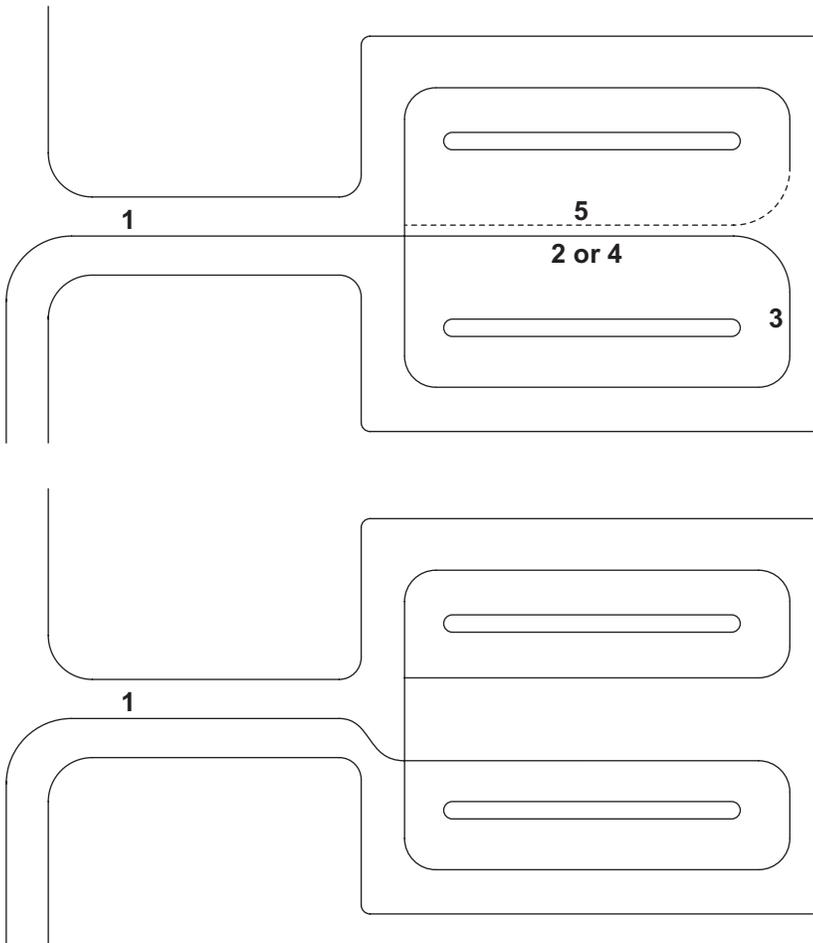
Auger speed changes how much material is fed to the spinner. Changing this rate will change the amount of material being spread in the same area.

Wider spread patterns will spread the same material over a larger area, so the application rate will be decreased unless the auger speed is increased, or you drive slower. A narrower spread pattern requires the opposite action—a slower auger speed or driving faster.

To maintain the application rate with a wider spread pattern, increase the auger speed, drive slower, or spread the area twice.

To maintain the application rate with a narrower spread pattern, decrease the auger speed or drive faster.

EXAMPLES:



KEY

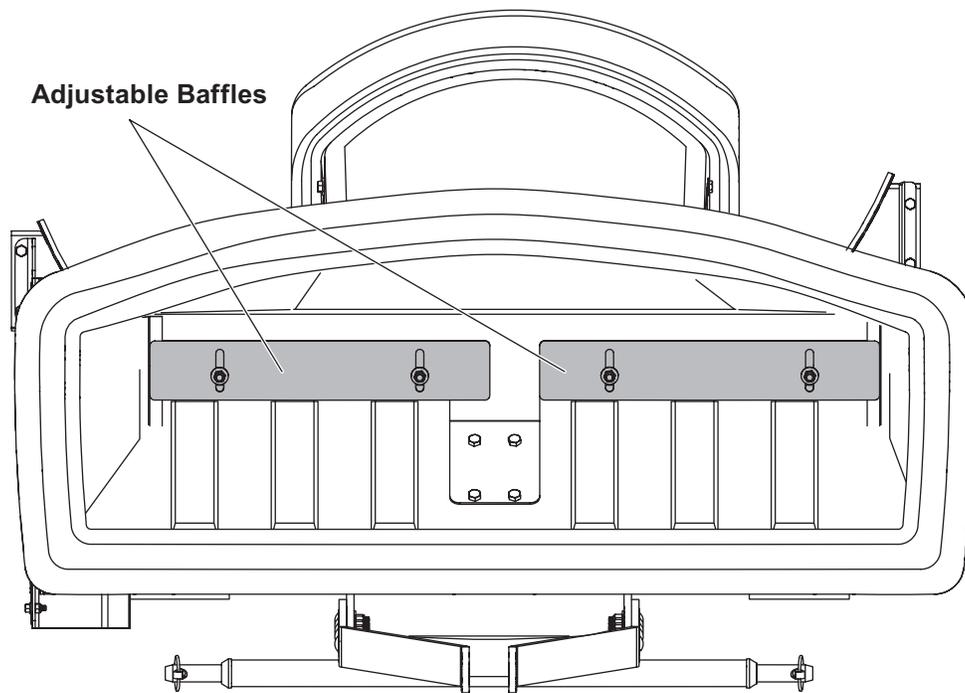
- 1 Constant speed. Desired application rate is set.
- 2 Increase spinner and auger speeds to maintain application rate with a wider spread pattern.
- 3 Decrease spinner and auger speeds to maintain application rate with a narrower spread pattern.
- 4 Increase spinner speed and drive slower.
- 5 Increase spread width and spread second pass on the way out of the parking lot.

OPERATING THE SPREADER

ADJUSTABLE MATERIAL BAFFLES

The Precision Pro spreader is equipped with adjustable material baffles inside the hopper. These baffles restrict the flow of salt to the auger. Leave these baffles at the factory setting until you have run some material through the spreader at different combinations of auger and spinner speeds. The baffles may need to be adjusted when changing to a different spreading material.

Use a 1/2" wrench for the fasteners holding the baffles in place. Loosen the bolt to move the baffle.

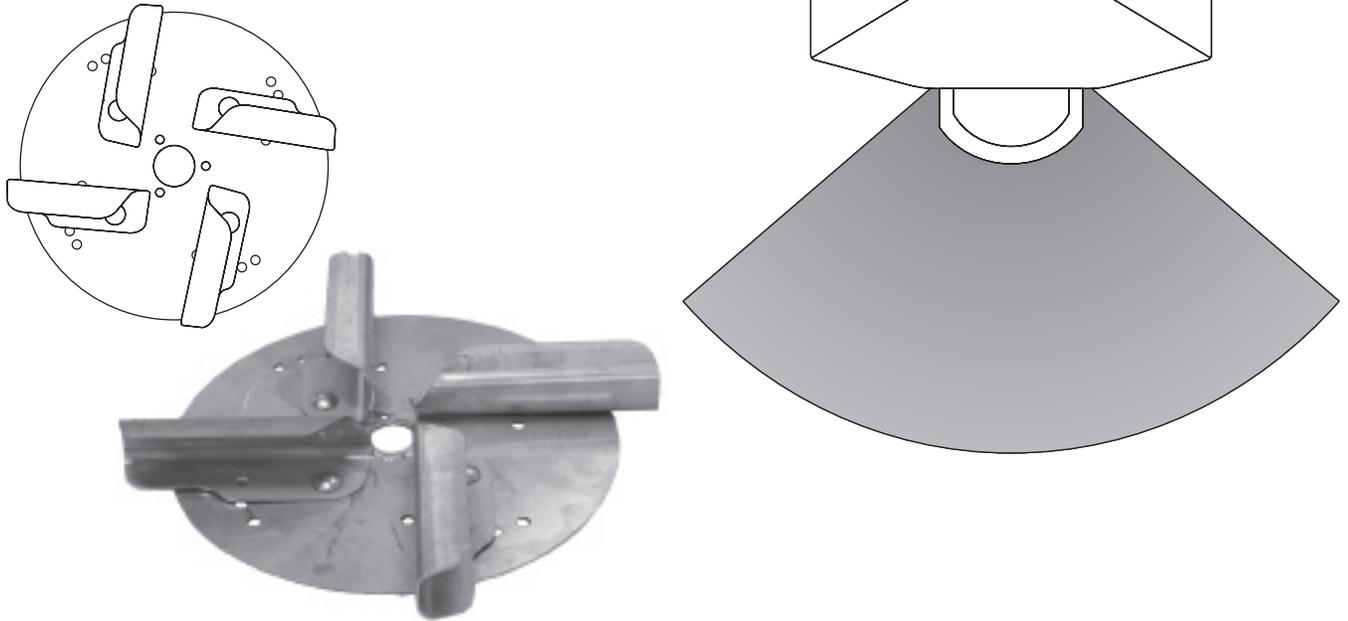


OPERATING THE SPREADER

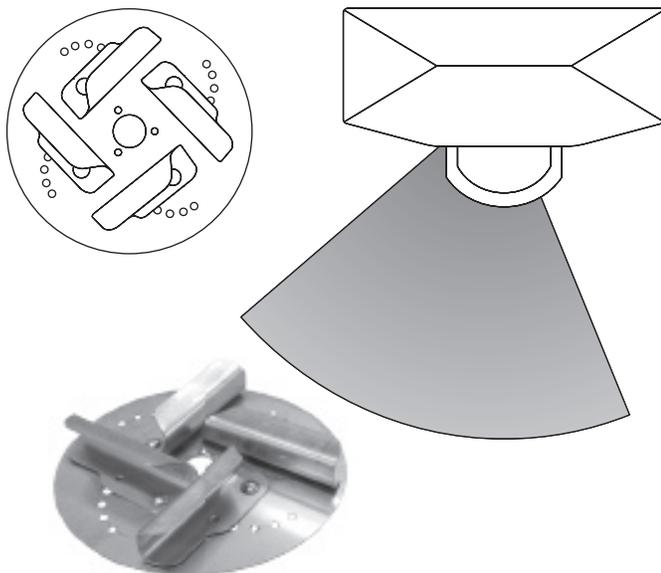
ADJUSTABLE SPINNER

The spreader is equipped with an adjustable spinner to assist in more precise material application. The spinner plate gives the operator control of whether the material spreads to the right, left, or is centered. Before operating the spreader, spread some material in a clear area where the spread pattern can be easily observed to see how it changes with fin adjustment. Use the instructions below as a guide to get the desired spread pattern. The position of the fins may need to be changed when using different materials or spinner speeds.

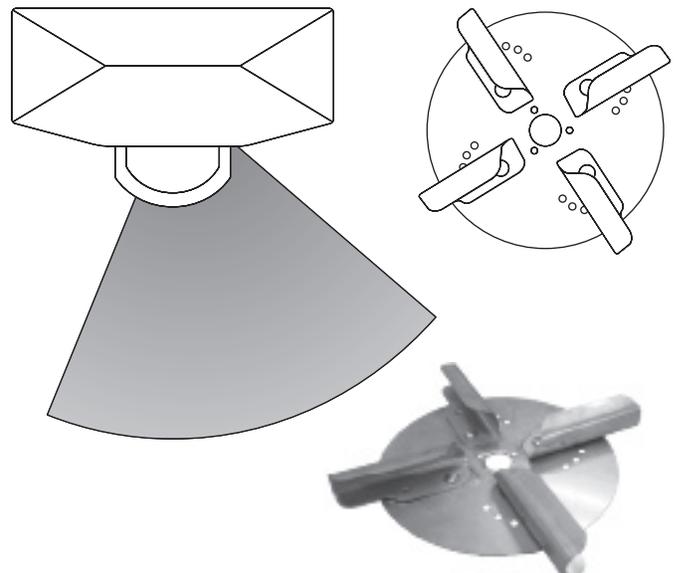
When the fins are in the center adjustment position, the spread pattern will be centered (with most materials).



When looking down at the spinner, moving the fins clockwise will adjust the spread pattern toward the left side of the spreader.



When looking down at the spinner, moving the fins counterclockwise will adjust the spread pattern toward the right side of the spreader.



MAINTENANCE

⚠ WARNING

Never remove the spreader with material in the hopper.

⚠ CAUTION

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

AFTER FIRST USE

Tighten all mounting fasteners.

CLEANING

To protect your Precision Pro spreader from corrosion, and to increase its useful life, clean it after each storm. By cleaning after each storm, salt build-up will be less and the salt will be easier to remove. More importantly, cleaning the unit can prevent corrosion.

AFTER EACH USE/STORM

⚠ 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: Do not spray water directly on the auger bearing and seals.

Run the spreader to empty the hopper. Either back up to the salt pile and spread into the pile, or put the spinner on the lowest setting and the auger on the highest setting until the hopper is empty. This process will allow the material to come out faster and the spinner will spread it in a smaller area. Clean up the salt and place in a bucket or salt box.

Turn the spreader control OFF and unplug the spreader before cleaning. Use water to rinse all of the salt residue away. Pay special attention to tight areas, enclosures, and hard-to-reach areas where salt build-up is likely to be a problem. Rinse these areas thoroughly. Avoid directly rinsing openings in transmissions/motors, such as where a shaft might come out of the housing. Use a car wash brush to clean off salt and dirt that is stuck. Consider using a

salt removal product or spraying your spreader with a cleaning solution before rinsing. Rinse all cleaning solutions off thoroughly with water.

Sweep puddles of water from surfaces of the spreader. Make sure to remove water from the bottom of the hopper so the auger isn't frozen when the spreader is used again.

When done cleaning, grease the bearings and put dielectric grease on the plugs. Spray metal parts with a corrosion prevention product or a light oil. Avoid getting oil on the plastic, which will cause the plastic to degrade.

CORROSION PREVENTION

Corrosion/rusting is a chemical reaction caused by the presence of moisture, salt, and metal. Preventing any one of these ingredients from coming in contact with any other ingredient will prevent corrosion.

Storing the spreader indoors, cleaning the spreader after each use, lubricating bearings, and spraying oil on the metal will limit moisture coming into contact with metal and salt. Although it is easier to prevent contact with salt and exposed metal, using a water-displacing oil (e.g. WD-40) may be useful.

Cleaning the spreader and rinsing it thoroughly after each use will help to prevent corrosion by removing the salt. Drying the spreader after cleaning will also help. A backpack blower can dry the spreader very well.

Rocks and debris thrown up by tires of the vehicle are likely to chip paint or create small scratches that could rust. Exposed metal can be prevented by spraying a light oil on metal parts after each washing. This will also create a barrier between the spreader and the salt dust that will stick to the spreader frame, making it easier to clean.

By cleaning and drying your spreader after each use and spraying metal parts with a light oil after each cleaning, you will be able to prevent most corrosion.

LUBRICATION

To keep your spreader running smoothly, lubricate the grease fittings after each use and at the end of each season.

MAINTENANCE

AT END OF EACH SEASON OR EXTENDED STORAGE



⚠ 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.

- Apply dielectric grease on all electrical connections to prevent corrosion at the beginning and end of the season and each time the power plugs are disconnected.
- Wash out the hopper and rinse off all external surfaces to prevent material build-up and corrosion.
- Paint or oil all bare metal surfaces at the end of the season.
- Cover the spinner assembly when it is in the storage/dump position for an extended period of time.

CAB CONTROL

Unplug the cab control from the control harness at the end of the season or when the hopper is removed from the vehicle.

STORE THE SPREADER

⚠ WARNING

Never remove the spreader with material in the hopper.

How the spreader is stored can have a lot to do with how long it will last and how well it performs. Store the spreader in a sheltered area, preferably indoors. If there is not space indoors, elevate the spreader on wooden blocks outdoors and cover with a tarp. Before putting the spreader away, perform a very thorough cleaning, lubricate bearings, and spray oil on all metal parts. Apply a protective plastic conditioner to the hopper and lid to protect them from the elements. Instead of oil on the frame, use a rust inhibitor spray (read the label before using to make sure it is not damaging to paint). Apply dielectric grease to all plugs and connections prior to storing the spreader.

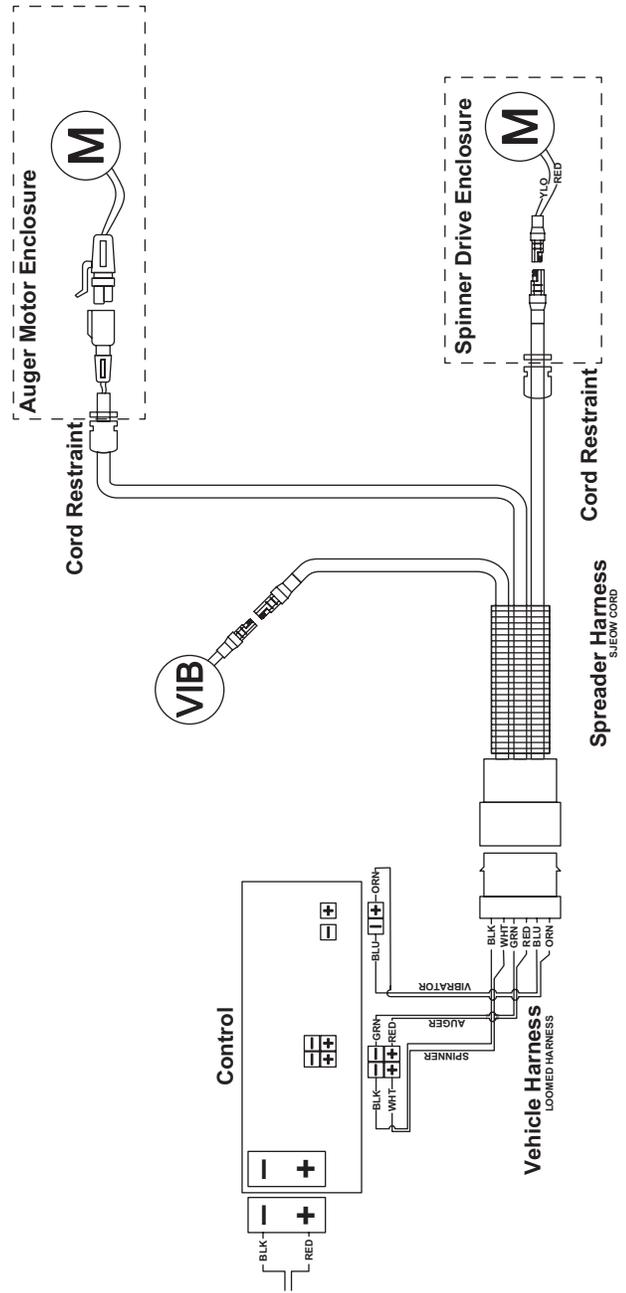
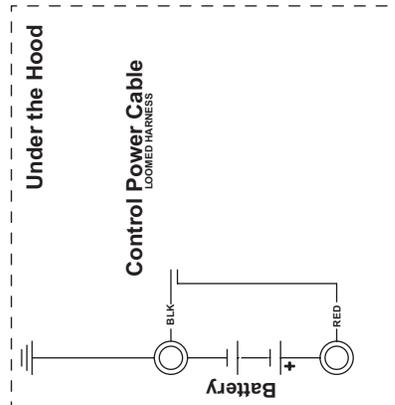
RECYCLE

When your spreader has performed its useful life, many of its components can be recycled.

ELECTRICAL COMPONENTS

VEHICLE HARNESS DIAGRAM

Key to Symbols	
Wire	
Spliced Wires	
Battery	
Motor	
Vibrator	
Breaker	
Ring Terminal	
Ground	
Component Enclosure	



TROUBLESHOOTING GUIDE

TROUBLESHOOTING

Please see your authorized dealer for service. The troubleshooting reference table below may guide you in diagnosing the issue.

Before servicing the spreader:

- Review all safety information.
- Confirm that all electrical connections are tight and clean.
- Confirm that nothing is jammed in the hopper.

Material Flow		
Problem	Possible Cause	Suggested Solution
Too much material	Auger speed too high.	Decrease auger speed.
		Increase spinner speed.
	Vibrator is on.	Turn vibrator off. Use intermittently.
	Adjustable baffles open too much.	Adjust baffles.
	Material is very fine.	Use a more-coarse material. Adjust baffles.
Not enough material	Auger speed too low.	Decrease auger speed. Increase spinner speed.
	Material is bridged in hopper.	Use vibrator.
	Material baffles closed too much.	Adjust baffles.
No material is spreading	Control is OFF.	Turn control ON.
	Material is bridged.	Use vibrator.
	Foreign object in hopper.	Remove object.
	Hopper is empty.	Fill hopper.
	No power to auger motor.	Reset circuit breaker.
		Put dielectric grease on all connections.
		Check harnesses for damage.
Contact your dealer.		

TROUBLESHOOTING GUIDE

TROUBLESHOOTING (Continued)

Control		
Problem	Possible Cause	Suggested Solution
OL	Jammed material.	Engage Auto-Reverse.
	Auger over-full.	Turn OFF vibrator (if on).
		Engage Auto-Reverse.
		Adjust baffles to restrict flow.
	Foreign object in hopper.	Remove object.
	Frozen material.	Shovel frozen material out.
Material on spinner at start-up.	Use shovel or snow brush to clear material off spinner.	
EO	Spreader harness unplugged.	Reconnect. Apply dielectric grease.
	Spinner drive unplugged.	Reconnect. Apply dielectric grease.
	Motor unplugged.	Reconnect. Apply dielectric grease.
	Cut in harness.	Check all harnesses; replace affected harness(es).
LB	Corroded connection.	Clean. Apply dielectric grease.
		Replace connectors.
	Loose connection.	Tighten/Apply dielectric grease.
		Replace.
	Low battery (less than 12V).	Charge battery.
		Test battery; replace if bad.
Test alternator; replace if bad.		
E1	Wires crossed.	Check harnesses for bare wires.
		Check for loose wires/connections.
ON/OFF Switch illuminates, no display	Control not connected.	Check all connections at the back of control.
No display; ON/OFF Switch does not illuminate	No power to control.	Reset breaker.
		Check for cuts in battery harness.
		Test control (contact dealer).



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