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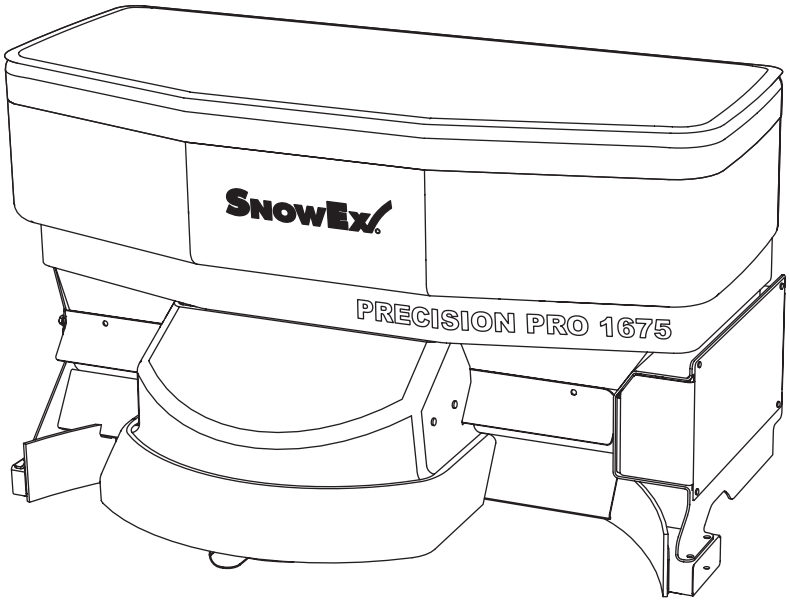
SNOWEX®

Precision Pro Spreader SP-1675

Installation Instructions



⚠ CAUTION

Read this document before installing or operating the spreader.

These Installation Instructions are for SP-1675 Precision Pro spreaders with serial numbers X4-100000 to X4-999999, and serial numbers beginning with 150918 and higher.

This manual supersedes all editions with an earlier date.

SAFETY DEFINITIONS

⚠ WARNING

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

⚠ CAUTION

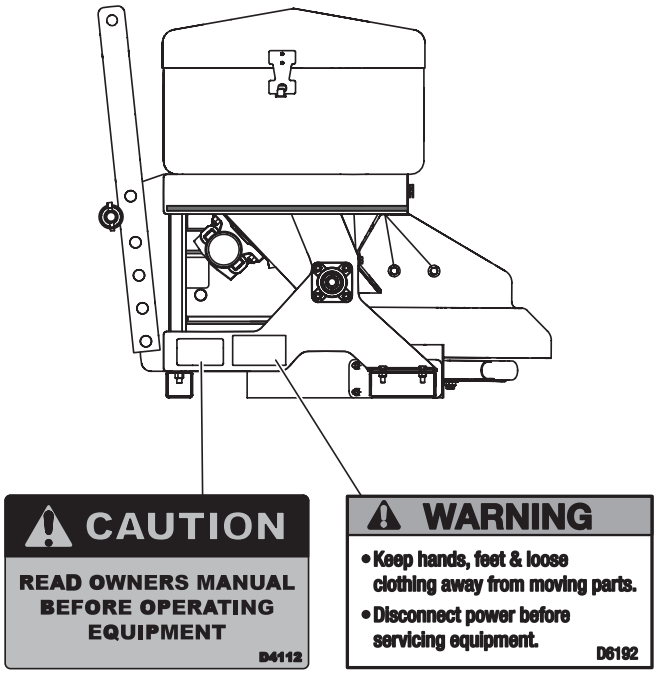
Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

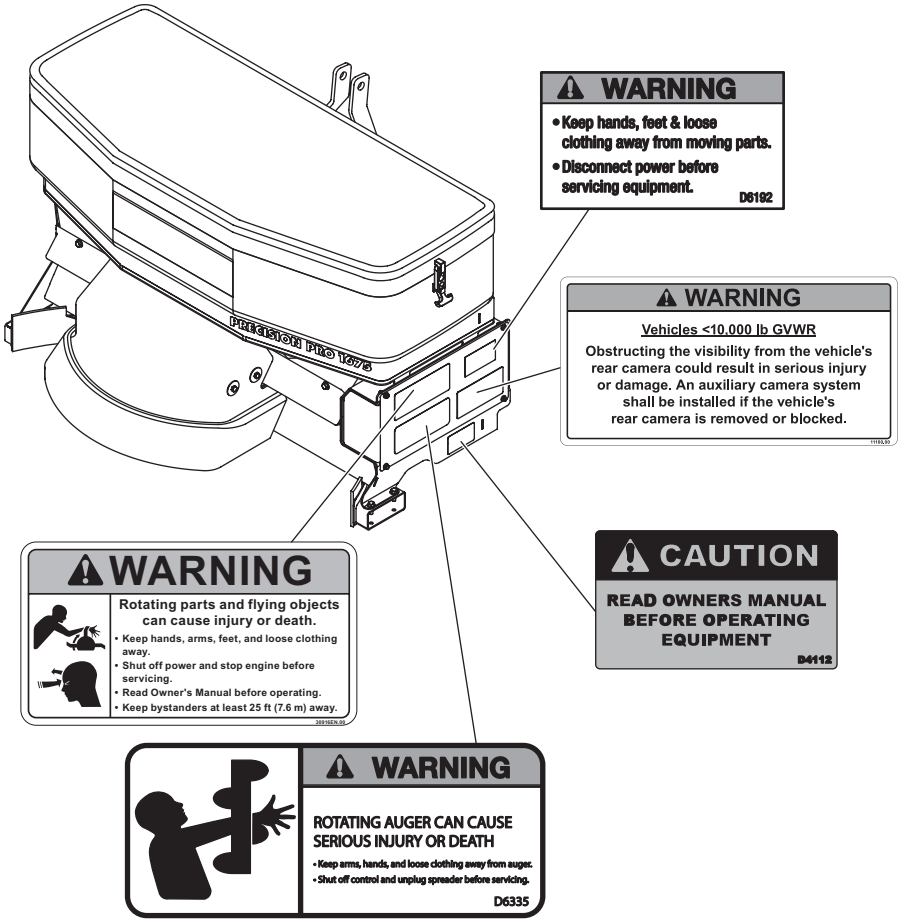
NOTE: Indicates a situation or action that can lead to damage to your spreader and vehicle or other property. Other useful information can also be described.

WARNING/CAUTION LABELS

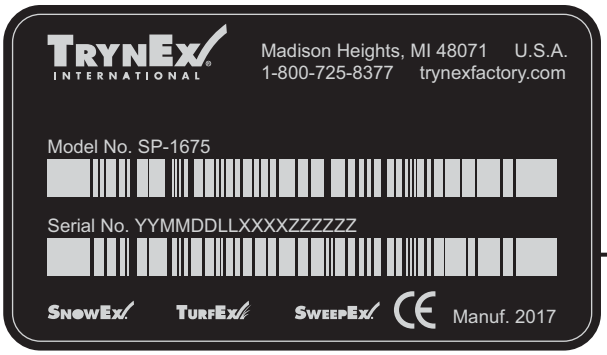
Become familiar with the warning and caution labels on the spreader.

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





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 Part Number

SERIAL NUMBER LABEL (CONTROL)

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 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 door cornerpost of the vehicle. See Loading section to determine maximum volumes of spreading material.

⚠ 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.

⚠ 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).

⚠ 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

During the hopper spreader installation we recommend the addition of an OSHA compliant backup alarm. This alarm is required for OSHA governed employers.

⚠ 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.

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/s^2 to the hand-arm or 0.5 m/s^2 to the whole body.

TORQUE CHART

⚠ CAUTION

Read instructions before assembling. Fasteners should be finger tight until instructed to tighten according to 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.

These Installation Instructions cover vehicles that have been recommended for carrying the 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

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 Safety Data Sheet requirements.

MATERIAL WEIGHTS

Material	Density		
	(lb/ft³)	(lb/yd³)	(kg/m³)
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.

SPREADER SPECIFICATIONS

Hopper Model	Overall Length (in)	Overall Height (in)	Empty Weight (lb)	Overall Width (in)	Hopper Width (in)	Capacity Struck (ft³)
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.

WIRING INSTRUCTIONS

Vehicle Control Harness Installation

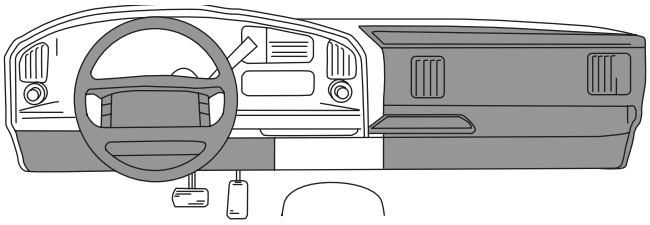
1. When laying out a path for routing the vehicle control harness from its attachment point on the vehicle battery cable into the cab of the vehicle, make sure that the path avoids any hot, sharp, or moving parts of the vehicle. Routing will vary from vehicle to vehicle.

2. Choose a cab control mounting location that can be reached by the harness. The location must be within easy reach of the vehicle operator without restricting access to vehicle controls or instrumentation.

   Do not mount the control in areas prohibited by the vehicle manufacturer for reasons of crashworthiness. See the vehicle's body builder's book, owner's manual, or service manual for details. The shaded portions in the illustration below show the most commonly restricted areas.

⚠ CAUTION

Do not alter, modify, or install additional components in shaded areas shown below. Failure to comply may interfere with airbag deployment or cause injury to operator in an accident.



⚠ CAUTION

Before drilling any holes, check both sides of the material for any wires, fuel lines, fuel tanks, etc., that may be damaged by drilling.

NOTE: Use dielectric grease on all electrical connections.

PICK-UP TRUCK

These instructions are only applicable if you are using the SP-1675 spreader with the TPR-020/TPR-020-1 Receiver Adapter.

1. Find a convenient location in the cab to mount the spreader control. Make sure that the area behind this location has room for wires to be routed and screws to come through the dashboard. The U-shaped control bracket can be mounted above or below the control according to the surface where it will be mounted. *(Dealers: Contact customers before mounting control.)*

2. Once the mounting location has been established, mount the control bracket. Assemble the control to the bracket with the cap screws and washers included, placing nylon washers between the bracket and the control housing. Use the provided screws to mount the bracket to the dash.

⚠ CAUTION

Before drilling holes, check to be sure that no vehicle wiring or other components could be damaged.

3. Find a location along the fire wall where wires and drilling will not interfere with any parts on either side of the fire wall. This location will be where the wires to and from the spreader control will enter the cab. Mark this location and drill a 3/4" hole.

4. Route the control power cable (PN D6341) from the battery, along the fender, along the fire wall, into the cab, and connect to the control. Make sure that the POWER switch is in the OFF position. Work back from the control, securing the harness with cable ties. Stop at the fender. You will need to disassemble the plug to get the harness through the fire wall. See the photos on the next page.

5. Connect the control power cable to the battery. If installing on a vehicle with two batteries, connect to the primary battery.

6. Coil excess cable in the engine bay. Secure with cable ties.

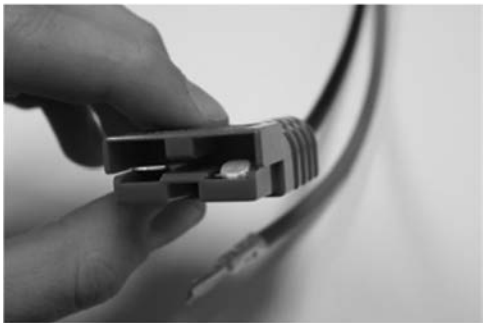
7. Route the vehicle harness (PN D6322) from the rear of the vehicle, along the frame, into the engine bay, along the fire wall, into the cab, and to the control. Connect to the control.

8. Work from the control to the rear of the truck, securing the harness with cable ties. Stop at the fuel tank.

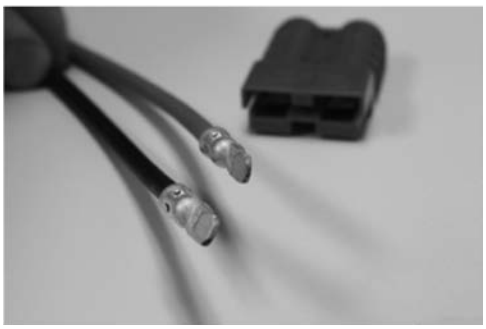
9. Mount the harness plug to the bumper of the vehicle. You can make your own bracket to mount in a location you prefer. Mount the plug angled downward slightly so that water will not collect in the plug. Mark the spacing of the holes for the plug using the plug as a guide. Drill two 1/4" holes. Mount the plug to the bumper with the included #10 cap screws and nuts. Make sure that the plug cover leash is attached to one of the cap screws. Apply dielectric grease to the plug.

10. Secure the harness to the frame from the bumper toward the front of the vehicle. Coil excess wire and cable tie together. Secure the harness above the fuel tank. Secure all loose wire.

Disassemble Plug to Feed Harness into Cab



Use a screwdriver to hold the locking tab down while pulling the wire from the rear.



TRACTOR

1. Find a convenient location in the cab to mount the control. If using an open-top tractor, you can mount it to a fender. The U-shaped control bracket can be mounted above or below the control housing according to the surface you will be mounting it to. *(Dealers: Contact customers before mounting control.)*

2. Once the mounting location has been established, mount the control bracket. Assemble the control to the bracket with the cap screws and washers included, placing nylon washers between the bracket and the control housing. Use the provided screws to mount the bracket to the dash.

3. Route the control power cable (PN D6341) from the control to the battery. See the Vehicle Harness Wiring Diagram. Route the cable to follow other wires, hydraulic hoses, or the frame. Avoid routing next to the moving parts and hot components.

4. Connect the control power cable to the battery. Coil the excess out of the way under the hood or cable tie to the frame.

5. Route the vehicle harness (PN D6322) from the hitch to the control. Allow for the last 12"–18" at the plug end to hang loose. Secure with cable ties, working back toward the control. Coil excess out of the way of moving parts—next to the seat, coiled at the base of the roll bar, or hanging beside the seat.

6. Secure the vehicle harness with cable ties. Do not mount near moving parts or hot components. Cable tie excess wire together and secure.

7. Use the cap screw and nut included with the harness to attach the plug cover to the harness plug.

NOTE: For maintaining the usefulness of the tractor in the off-season, and to prevent damage to the control and wiring, remove the control and wiring and store indoors at the end of the season.

UTILITY VEHICLE (UTV)

These instructions are only applicable if you are using the SP-1675 spreader with the TPR-020/TPR-020-1 Receiver Adapter.

1. Find a convenient location on the dashboard to mount the spreader control. The location should be within easy reach from the driver's seat, clear of switches and equipment on the surface of the dashboard, and behind the dashboard. *(Dealers: Contact customers before mounting control.)*

2. Once the mounting location has been established, mount the U-shaped bracket. Assemble the control to the U-shaped bracket with the cap screws and washers included, placing nylon washers between the bracket and the control housing. Use the provided screws to mount the bracket to the dash.

⚠ CAUTION

Before drilling holes, check to be sure that no vehicle wiring or other components could be damaged.

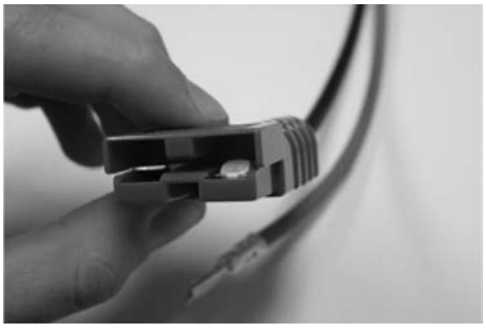
3. Route the control power cable (PN D6341) from the battery to the control. See wiring diagram. Do not route the cable near hot components or moving parts. Route the cable to follow other wires and frame members. If you need to feed the wire through a fire wall or similar device, drill a 3/4" hole (you will need to disassemble the plug as shown in photos below). Connect the cable to the control. Work back from the control and secure with cable ties. Coil extra wire out of the way in an open cavity (e.g., under the seat). Secure with cable ties. Connect the cable to the battery.

4. Route the vehicle harness from the control to the rear of the vehicle. Do not route near hot components and moving parts. Find a location along the way where extra wire can be coiled.

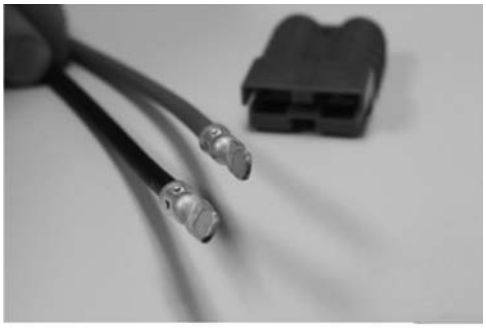
5. Connect the vehicle harness to the control. Secure to harnesses/frame with cable ties. Coil the excess wire in the location from Step 4.

6. Mount the harness plug to the rear of the vehicle where the tailgate and the dump body will not hit or crush it. (You can make your own bracket to mount the plug.) Mount the plug angled downward so that water will not collect in the plug. Mark the spacing of the holes for the plug using the plug as a guide. Drill these two holes at 1/4". Mount the plug to the bumper with the included #10 cap screws and nuts. Make sure that the plug cover leash is attached to one of the cap screws. Apply dielectric grease to the plug.

Disassemble Plug to Feed Harness into Cab



Use a screwdriver to hold the locking tab down while pulling the wire from the rear.



ATTACHING TO UTV OR PICK-UP TRUCK

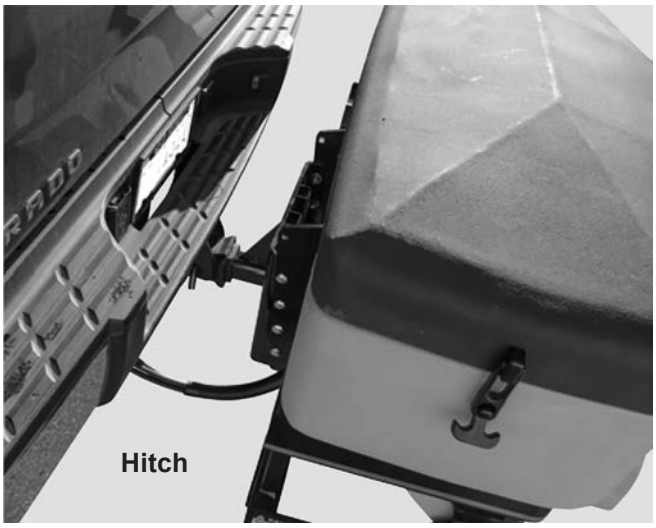
NOTE: Periodically throughout the snow and ice control season, verify that mounting devices are secure.

⚠ 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 using a TPR-020/TPR-020-1 Receiver Adapter, attach the hitch adapter plate to the spreader frame in accordance with the adapter's Installation Instructions. Insert the hitch into the vehicle receiver. Lock with the hitch pin and cotter pin that are included with the adapter.

Receiver Adapter w/ Precision Pro 1675 spreader installed on truck.



Hitch

Plug the spreader harness into the vehicle plug. The equipment is ready to begin spreading.

ATTACHING TO TRACTOR

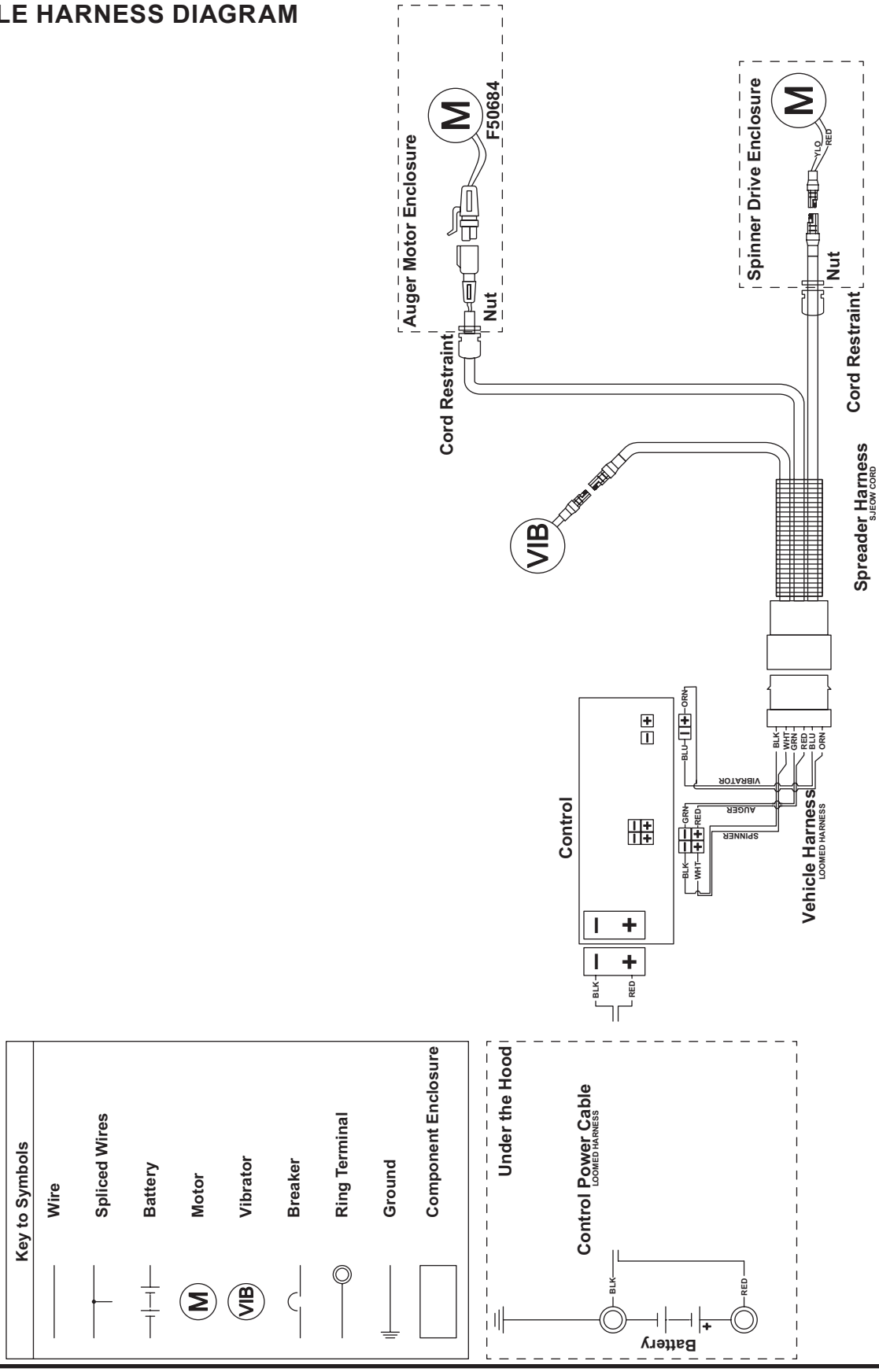
To attach the spreader to a tractor's 3-point hitch, attach the hitch in accordance with the kit's Installation Instructions. Back the tractor up to the spreader frame. Lower the hitch and attach to the spreader. Plug the harnesses together. Once attached, raise the spreader 12" to 18" above the ground.

Adjust top link so that spreader is vertical.

View of attachment points.

The equipment is ready to begin spreading.

VEHICLE HARNESS DIAGRAM



FINAL CHECKLIST

- ☐ Verify that the auger and spinner turn freely.
- ☐ Verify that dielectric grease is applied to all electrical connections.
- ☐ Verify that wire harnesses and battery cables are properly secured away from hot or moving parts.
- ☐ Verify that the vehicle battery cable has sufficient ground clearance when the spreader is removed from the vehicle.

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