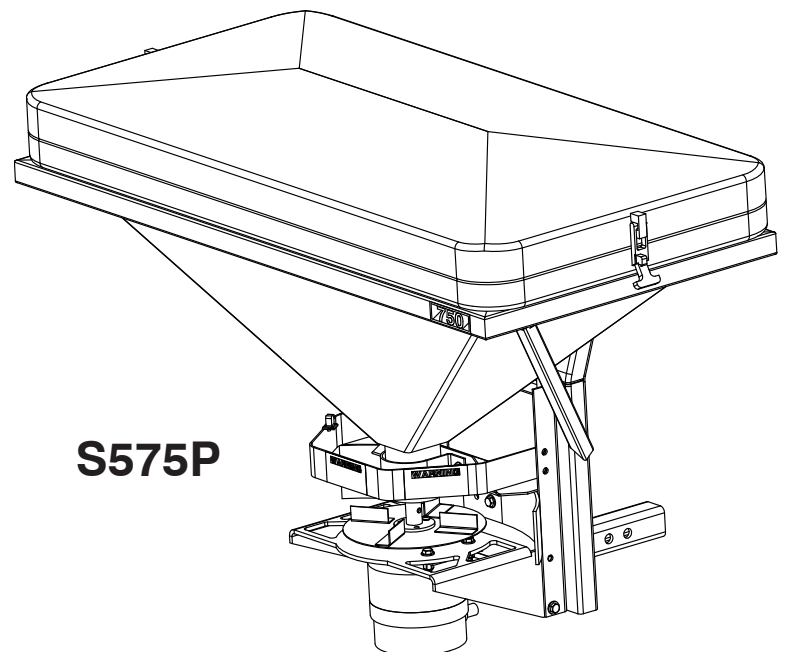
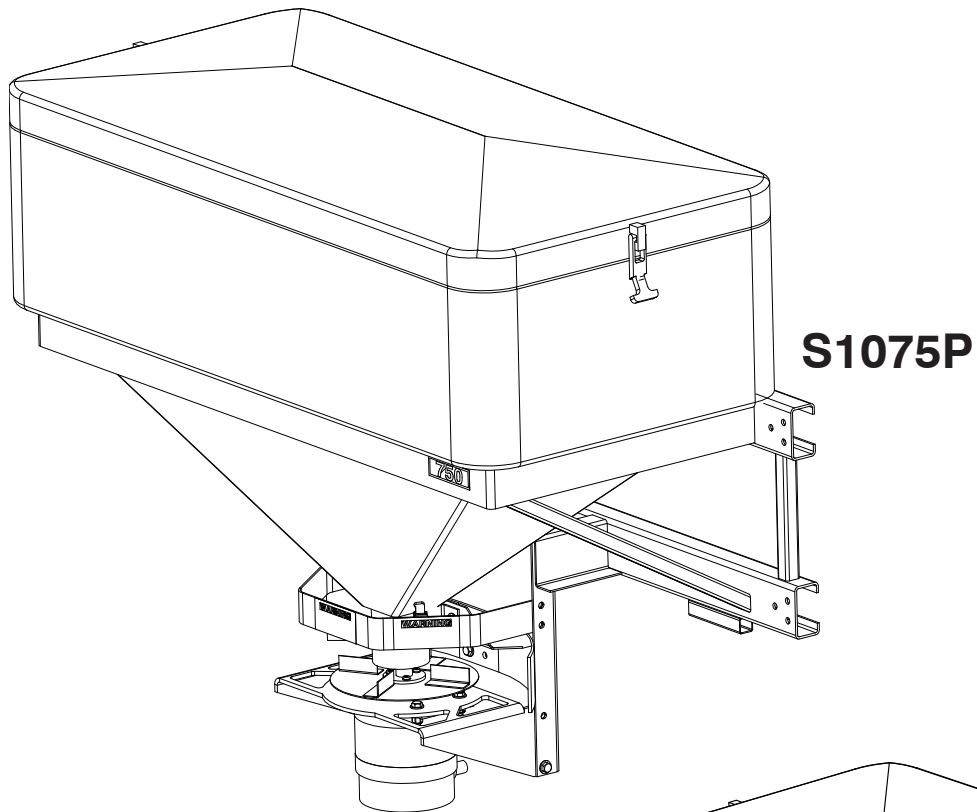


Installation Instruction and Owners Manual MAGNUM SALT/SAND SPREADERS Models: S1075P & S575P



Magnum Spreader reserves the right, under its continuing product improvement program, to change construction or design details, specifications and prices without notice or without incurring any obligation.

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INTRODUCTION

This manual will assist you in the proper set-up, installation, and use of the MAGNUM series spreaders.

Please read and understand the contents of the manual completely (especially all safety information) before attempting any procedure contained herein.

The MAGNUM line of spreaders may be attached to many types of vehicles to suit different spreading needs.

The modular design allows for multiple mounting variations using the same spreader.

Our heavy-duty construction uses high quality steel, stainless steel or polyethylene along with industrial grade electrostatic paint finishes so that maintenance is minimal.

Our high torque, direct drive motor powered by a state-of-the-art, variable speed, solid state electronic controller will provide reliable power and control when spreading, even at extremely low temperatures.

Magnum Spreader reserves the right to make any changes or improve the design of any parts and not be obligated to make changes on units previously sold.

VEHICLE REQUIREMENTS FOR MAGNUM SERIES SALT/ SAND SPREADER INSTALLATION

1.) For installation of S1075 series salt spreaders:

- A.) Due to the size and capacity of these spreaders we recommend installation on full size trucks with a 3/4 Ton rating or higher.
- B.) Stock mountings (“Hinged” or “Fixed”) are designed to be used only with full size pick-up trucks which have rear bumpers in good condition (top surface must be straight and relatively level with truck)
- C.) If hinged mounting is desired, the truck’s bed rails must also be of good condition and stake pockets free for use.
- D.) If fixed mounting will be used, the tailgate must close and latch solidly

2.) For installation of S575 series salt spreaders:

- A.) This product line can be installed on any vehicle with a class 3 hitch receiver that will accept a 2" square tube and has a tongue weight rating of at least 500 lbs.
- B.) If your vehicle is not factory equipped with a hitch, we recommend taking it to a reputable trailer hitch installation shop or your vehicles dealership.
- C.) Reese and Draw-Tite offer a dual port hitch (DPS) with two round, downward angled receivers. A 5.75 cu. ft. MAGNUM spreader can be ordered to fit this system.

As with any vehicle accessory, please refer to you owners manual to verify that the GVWR (Gross Vehicular Weight Rating) will not be exceeded, especially if this product will be used in conjunction with other mounted equipment. If equipment is mounted to vehicle with other than stock hardware or components, we the manufacturer cannot and will not be held responsible for damages. Also, check your vehicle owner’s manual to be sure that the installation of “after-market” accessories will not void the manufacturers’ factory warranty.

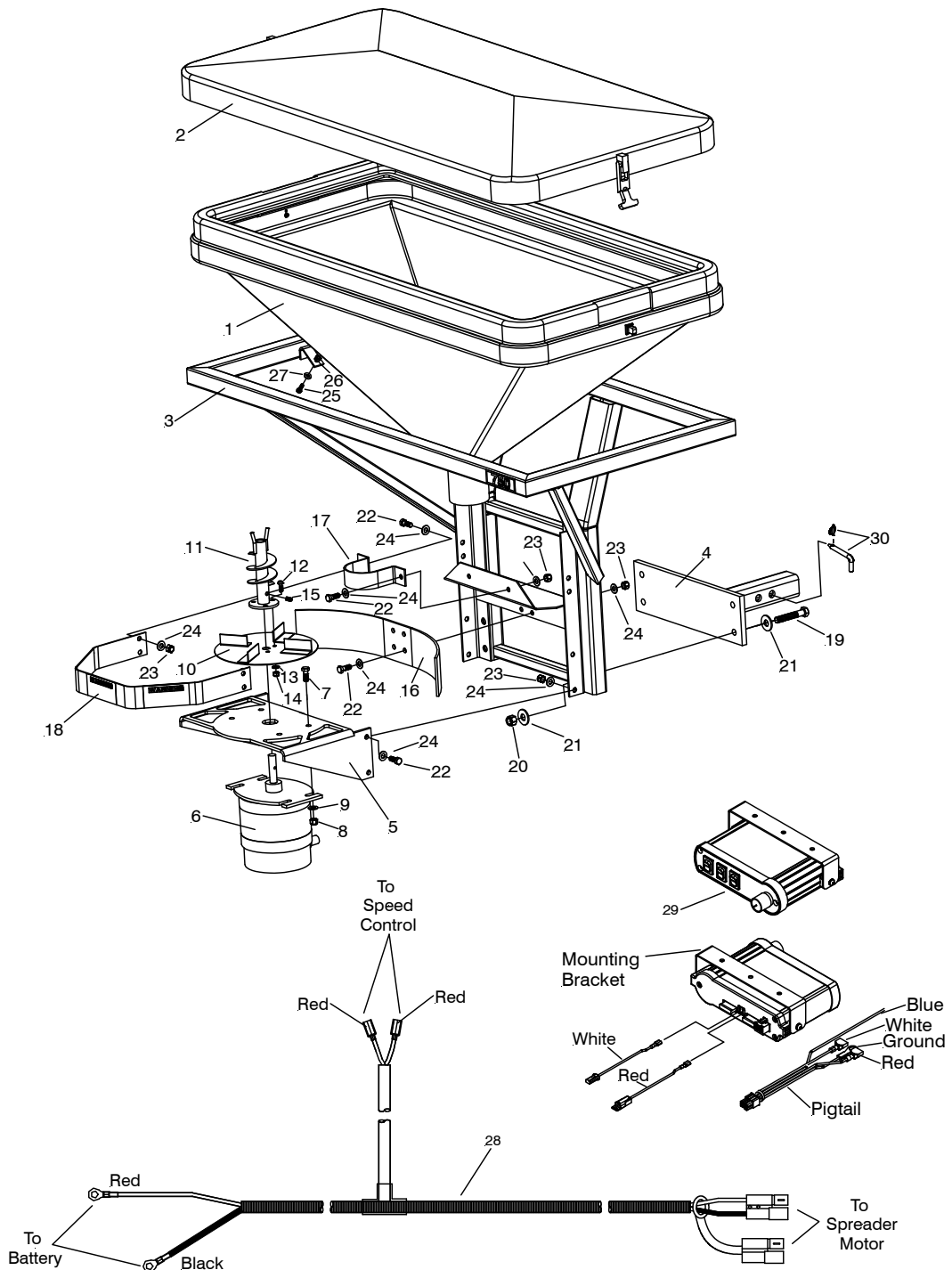
SAFETY GUIDELINES

For your safety when the word **WARNING** is used, this refers to information that if not carefully followed could result in personal injury or death.

The word **CAUTION** refers to a situation that could cause minor injury or damage to equipment.

- WARNING** – Before operating READ and UNDERSTAND this operators manual in its entirety.
- WARNING** – NEVER operate equipment while under the influence of alcohol, drugs, or medications that might impair your judgment and reaction time.
- WARNING** – NEVER allow children to operate equipment.
ALWAYS CHECK AREAS to be spread to be sure no hazardous conditions or substances are present.
ALWAYS INSPECT UNIT FOR DEFECTS: broken, bent, or worn parts, or weakened areas on spreader or mount.
- WARNING** – ALWAYS SHUT OFF vehicle power source before attaching, detaching, or servicing the equipment.
- WARNING** – ALWAYS MAKE SURE PERSONNEL ARE CLEAR of spread pattern when using equipment.
- WARNING** – NEVER EXCEED 45 M.P.H when loaded spreader is attached to vehicle. Braking distances and handling characteristics may be impaired at greater speeds.
- CAUTION** – Never use wet materials or material with foreign debris. This unit is designed to handle clean, dry, free-flowing material.
- CAUTION** - Never leave material in hopper for long periods of time. All ice melters are hygroscopic and will attract atmospheric moisture and harden.
- WARNING** – INSPECT pins and bolts whenever attaching, detaching, and before travel. All factory installed bolts utilize lock nuts however road and operational vibrations might loosen them.
- WARNING** – INSPECT unit periodically for defects. Parts that are broken, worn, or missing must be replaced immediately. The unit or any part of it should NOT be altered in any way without prior written permission from the manufacturer.
- WARNING** – When using swing mount, **NEVER** swing spreader with material in hopper!.
- WARNING** – **NEVER** attempt to clear a jammed feed screw with the power on!
- WARNING** – **NEVER** place hands into hopper or around feed screw and spinner when power is on. Also, keep loose clothing and hair away from moving parts!
- CAUTION** – De-icing materials can be damaging to plant life and concrete. Know what you are spreading and where you are spreading it.

S575P



Parts List

Item	Part No.	Qty.	Description	Item	Part No.	Qty.	Description
	S575P		Magnum 575 Assembly	16	34401	1	• Deflector
1	32110	1	• Hopper Assembly	17	34402	1	• Hopper Collar
2	34200	1	• Lid Assembly	18	34400	1	• Motor Guard
3	32200	1	• Frame Assembly	19	22736	4	• Bolt 1/2-13 x 3" SS
4	35001	1	• Hitch Weldment	20	22732	4	• Locknut 1/2-13 SS
	34100	1	• Power Weldment Assembly	21	22733	4	• Flatwasher 1/2" SS
5	34101	1	• Motor Mount	22	22737	18	• Bolt 3/8-16 x 1" SS
6	34102	1	• Motor	23	22735	14	• Locknut 3/8-16 SS
7	22730	4	• Bolt 3/8-16 x 1-1/4" SS	24	22734	24	• Flatwasher 3/8" SS
8	22735	4	• Locknut 3/8-16 SS	25	22725	2	• Bolt 1/4-20 x 3/4" SS
9	22734	4	• Flawasher 3/8" SS	26	22727	14	• Locknut 1/4-20 SS
	34000	1	• Spinner Auger Assembly	27	22724	24	• Flatwasher 1/4" SS
10	34001	1	• Spinner		32218	1	• Carton Accessory Parts
11	34004	1	• Auger	28	34106	1	• Wire Harness
12	22725	3	• Bolt 1/4-20 x 3/4" SS	29	22808	1	• Controller
13	22727	3	• Locknut 1/4-20 SS	30	22731	1	• Hinge Pin w/Clip
14	22724	3	• Flawasher 1/4" SS		32216	2	• Ratchest Tie Down Strap
15	22726	1	• Set Screw 5/16" SS		32217	2	• Tie Down Hook

Parts indented are included in the assembly under which they are indented.

INSTALLING RECEIVER MOUNT MODEL: S575P

The MAGNUM S575p is a dedicated, Class 3, receiver (hitch) mount salt spreader. Prior to installation, be certain that the vehicle receiver is in good working order, is rated for at least a 500 lb. tongue load, and is fastened to the vehicle securely.

CAUTION - The spreader is a large heavy item that should be installed with an assistant. As with any new equipment installation read and understand all instructions prior to starting the job, and do not hurry through it. A correct installation now can save time and money later.

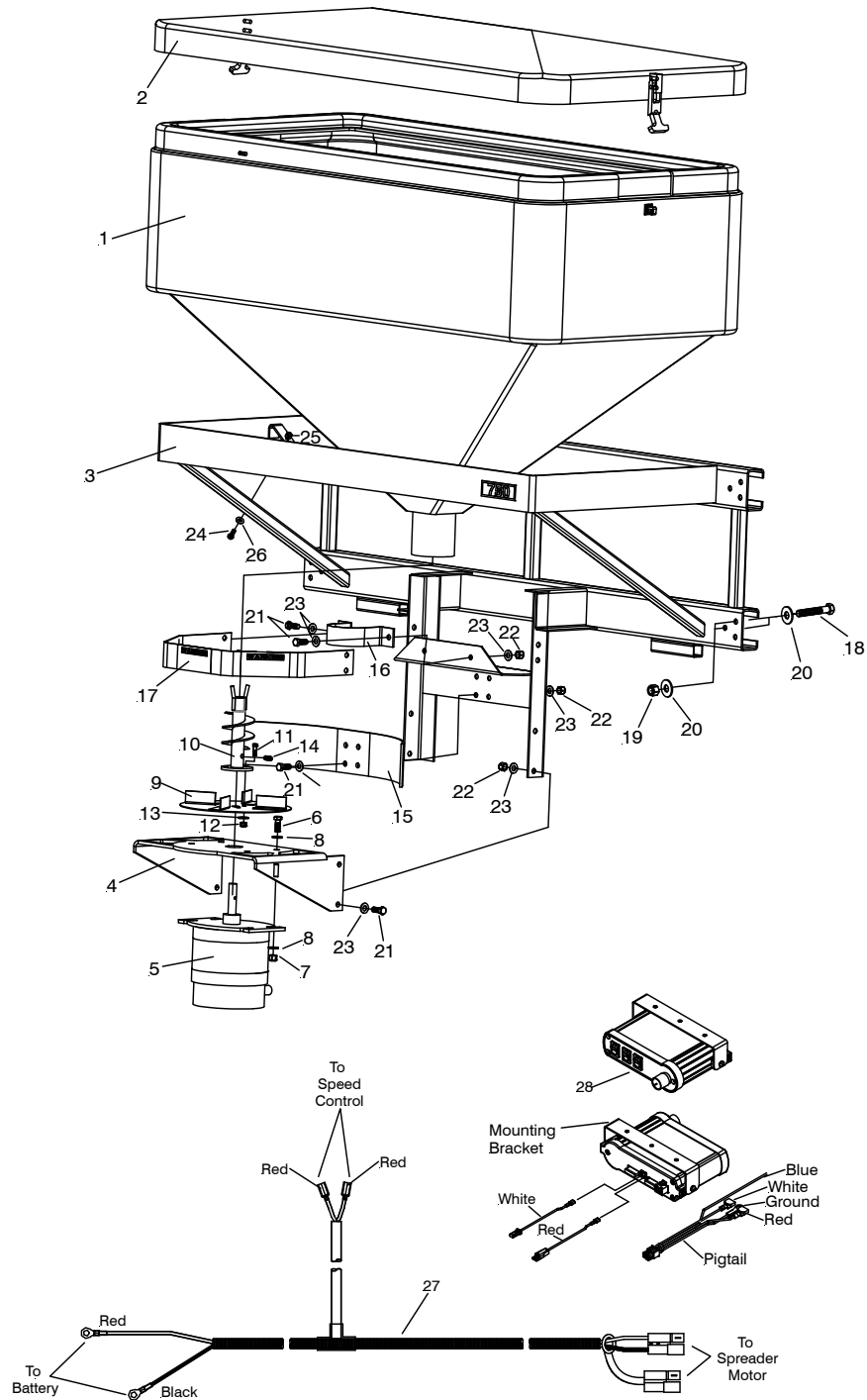
- 1.) Using an assistant remove the spreader unit and all loose components from the packaging and set cover aside until installation is complete. Retain original packaging for storage purposes.
- 2.) Locate the large hitch pin and cotter clip from the hardware package. Set these items aside, as they will be used later during the installation.
- 3.) Inspect the vehicles receiver tube and check for rust, dirt, or foreign debris that may have collected in it. If there are any blockages clean with compressed air and a wire brush.
- 4.) Apply good quality grease to the inside of the receiver tube, this will prevent rusting and make the spreader easier to remove at the end of the season.
- 5.) The framework will have four 1/2-13 x 3" SS Bolts (20) already installed in the mounting holes for the stinger. Remove the 1/2-13 SS Locknuts (22) and 1/2" SS Flatwashers (21) and apply a light oil to the threads, this will make assembly easier; yet will not affect the locking properties of the safety nuts. Place the stinger over the bolts, replace the nuts and washers and fully tighten. (Note: The mounting tube may be placed in either the raised or lowered position by flipping the stinger over. This is owner preference) The DPS version is always installed with a downward angle for the two round stingers.
- 6.) Lift the spreader unit upright (hopper opening facing up) with mounting tube pointed toward the truck.
- 7.) Slowly slide spreader mounting tube into the vehicles receiver until the through holes in receiver match through holes in spreader. (See note below)
- 8.) Insert the large hitch pin through the receiver tube and spreader mounting tube. Secure with the cotter clip.
WARNING – The cotter clip must be in place for safe operation.
- 9.) Place the cover over the hopper and secure clamps on left and right sides.

NOTE: •The spreader mounting tube has 2 pre-punched hole sets to provide some adjustment when installing the unit.
•Always use the hole set that places the unit closest to the vehicle but without touching it.

WARNING – Never attempt to drill new holes in the spreader mounting tube, contact your local trailer hitch supplier about relocating or replacing you current hitch, if mounting problems occur.

- 10.) Use the Ratchet Tie Down Strap and Tie Down Hooks to tie spreader to vehicle frame to eliminate any rocking of the spreader.

S1075P

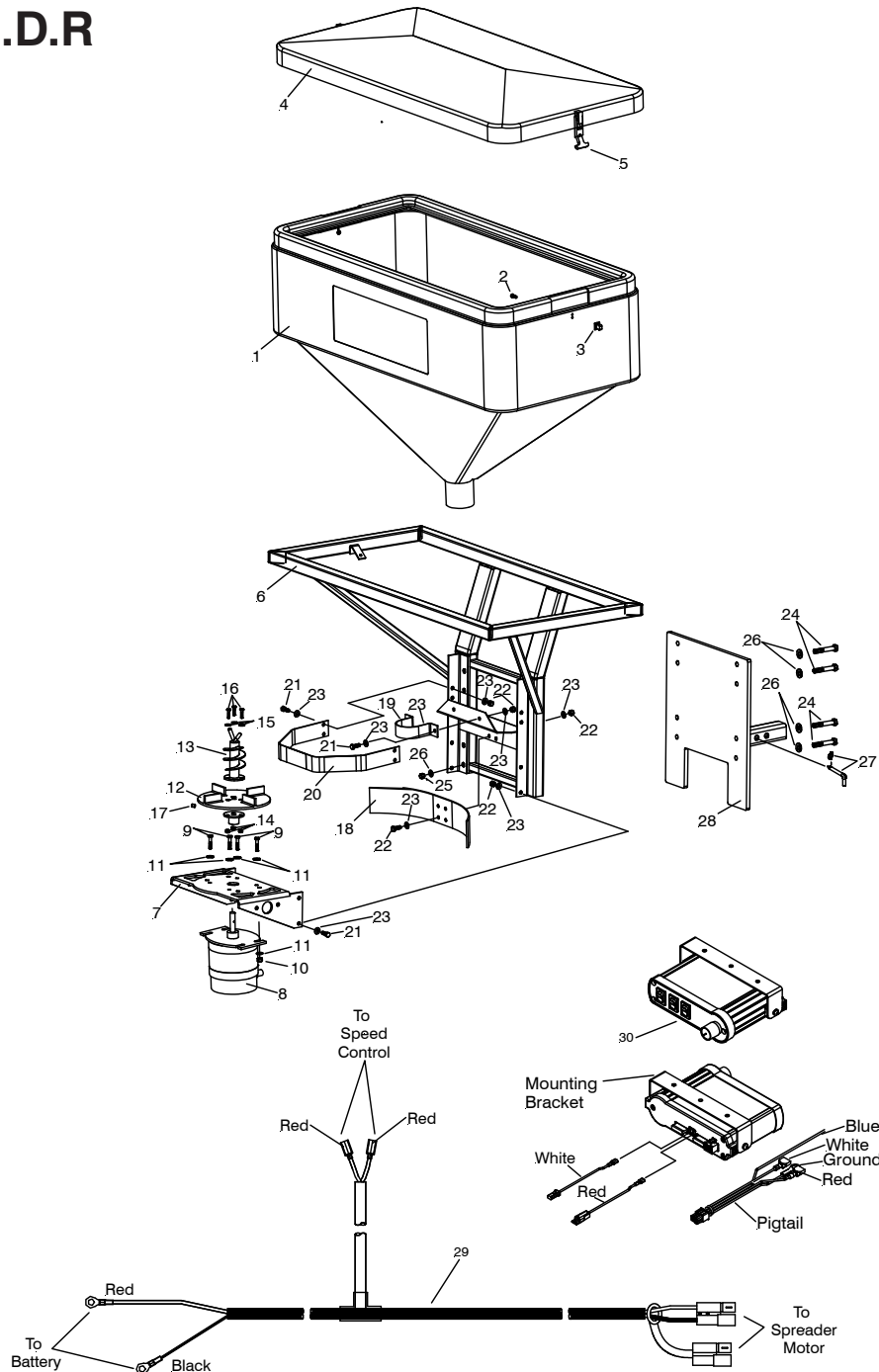


Parts List

Item	Part No.	Qty.	Description	Item	Part No.	Qty.	Description
	S1075P		Magnum 1075 Assembly	15	34401	1	• Deflector
1	33110	1	• Hopper Assembly	16	34402	1	• Hopper Collar
2	34200	1	• Lid Assembly	17	34400	1	• Motor Guard
3	33200	1	• Frame Assembly	18	22736	8	• Bolt 1/2-13 x 3" SS
	34100	1	• Power Weldment Assembly	19	22732	8	• Locknut 1/2-13 SS
4	34101	1	• Motor Mount	20	22733	8	• Flatwasher 1/2" SS
5	34102	1	• Motor	21	22737	18	• Bolt 3/8-16 x 1" SS
6	22730	4	• Bolt 3/8-16 x 1-1/4" SS	22	22735	14	• Locknut 3/8-16 SS
7	22735	4	• Locknut 3/8-16 SS	23	22734	24	• Flatwasher 3/8" SS
8	22734	4	• Flatwasher 3/8" SS	24	22725	2	• Bolt 1/4-20 x 3/4" SS
	34000	1	• Spinner Auger Assembly	25	22727	14	• Locknut 1/4-20 SS
9	34001	1	• Spinner	26	22724	24	• Flatwasher 1/4" SS
10	34004	1	• Auger		33218	1	• Carton Accessory Parts
11	22725	3	• Bolt 1/4-20 x 3/4" SS	27	34106	1	• Wire Harness
12	22727	3	• Locknut 1/4-20 SS	28	22808	1	• Controller
13	22724	3	• Flatwasher 1/4" SS				
14	22726	1	• Set Screw 5/16" SS				

Parts indented are included in the assembly under which they are indented.

S1075P R.D.R



Parts List

Item	Part No.	Qty.	Description	Item	Part No.	Qty.	Description
	33505		Magnum Assembly 1075P R.D.R	18	34401	1	• Deflector
1	33111	1	• Hopper Assembly	19	34402	1	• Hopper Collar
2	22729	6	• Bolt 10-24 x 5/8" SS	20	34400	1	• Motor Guard
3	34407	2	• Latch Hook	21	22737	14	• Bolt 3/8-16 x 1" SS
4	34201	1	• Lid Assembly	22	22735	14	• Locknut 3/8-16 SS
5	34408	2	• Rubber Latch	23	22734	28	• Flatwasher 3/8" SS
6	32200	1	• Frame Assembly		32216	1	• Ratchet Tie Down Strap
	-----	1	• Power Weldment Assembly		32217	1	• Tie Down Hook
7	34101	1	• Motor Mount		34608	1	• Hardware Bag
8	36402	1	• Motor	24	22736	8	• Bolt H 1/2-13 x 3" SS
9	20029	4	• Bolt 5/16-18 x 1-1/2" Gr. 2	25	22732	8	• Locknut 1/2-13 SS
10	20313	4	• Locknut 5/16-18	26	22733	16	• Flatwasher 1/2" SS
11	20352	8	• Flatwasher 5/16"	27	22731	1	• Hitch pin w/clip
	36152	1	• Spinner Hub	28	35010	1	• Hitch Weldment
12	36414	1	• Spinner	29	34106	1	• Wire Harness
13	36151	1	• Auger	30	22808	1	• Controller
14	22727	3	• Locknut 1/4-20 SS				
15	22724	3	• Flatwasher 1/4" SS				
16	22725	3	• Bolt 1/4-20 x 3/4" SS				
17	22726	1	• Set Screw 5/16" SS				

Parts indented are included in the assembly under which they are indented.

ELECTRICAL INSTALLATION FOR ALL MAGNUM SERIES SPREADERS

- 1.) Locate the wire harness and begin to route it from the rear of the vehicle to the front. The molded rubber plug indicates the rear of the harness, closest to the spreader. Use frame holes and frame supports as lashing points. Do not attach to fuel or brake lines. Avoid wire-runs along exhaust system or hot engine parts. Melting damage to the harness can occur in the proximity of extreme heat.
- 2.) Mount the rubber plug under the rear bumper. Position this plug toward the center of the vehicle.
- 3.) Place the Harness portion that connects to the battery along the firewall and fender well, but do not connect yet.
- 4.) Drill a 1" diameter hole through the firewall. This hole will be used to route the controller portion of the harness into the vehicle. Before drilling always check to see what is on the other side.
- 5.) Push the controller portion of harness through the hole in the firewall that was previously drilled. NOTE: The controller end will have 2 plugs on it, but only 1 plug can pass through the firewall at a time.
- 6.) Move to engine compartment. Connect power leads to battery: RED WIRE (+) positive, BLACK WIRE (-) negative. Coat the connections with dielectric grease to prevent corrosion and build up. Check harness marked 'battery' for voltage by temporarily removing the red tape affixed to it.
- 7.) Connect the blue wire from pigtail to brake light. Connect white wire from pigtail to optional vibrator harness if equipped. Connect red wire on pigtail to a 12 volt keyed accessory. Connect black ground wire to ground. Connect white jumper wire to the back of the controller marked motor white wire. Connect red jumper wire to the back of the controller marked battery red wire wire. The two red wires from the main connector can now be connected to the two jumper wires. (Note: wires will only connect one way) ANY ATTEMPT TO JOIN THE CONNECTORS IMPROPERLY, FOR EXAMPLE MALE TO MALE, COULD SHORT OUT THE CONTROLLER.
Misconnection resulting in a damaged controller is not covered by warranty.
- 8.) Select a suitable location to mount the controller. After mounting verify that the power switch is in the off position.
- 9.) Coil excess wire and use wire ties to secure it to a safe location.
- 10.) Mate the plug coming from the spreader unit to the plug previously installed under the rear bumper.
- 11.) Make sure that feed screw/spinner area of the spreader is clear of obstructions. Turn power on at the controller and verify that the spreader is operating in all modes. Looking down on the impeller from the rear of the vehicle, determine that the impeller is turning counter-clockwise. Unit may now be operated.
- 12.) If you purchased an accessory hopper vibrator, use the drilling template to mount the motor on the outside of the hopper. On 5.75 cu. ft. units, the motor is mounted on the vehicle side hopper wall. On 10.75 spreaders the motor will mount on the rearmost side of the hopper. An on/off auxiliary toggle switch is mounted within easy access of the driver inside the vehicle to break the positive lead to the motor. The negative wire is continuous to the vibrator motor.

INSTALLING HINGED MOUNT MODEL: (35500)

This section covers the installation of a Magnum 1075 on a vehicle as hinged mount. CAUTION – This salt spreader is a heavy, bulky item that should be installed with assistance.

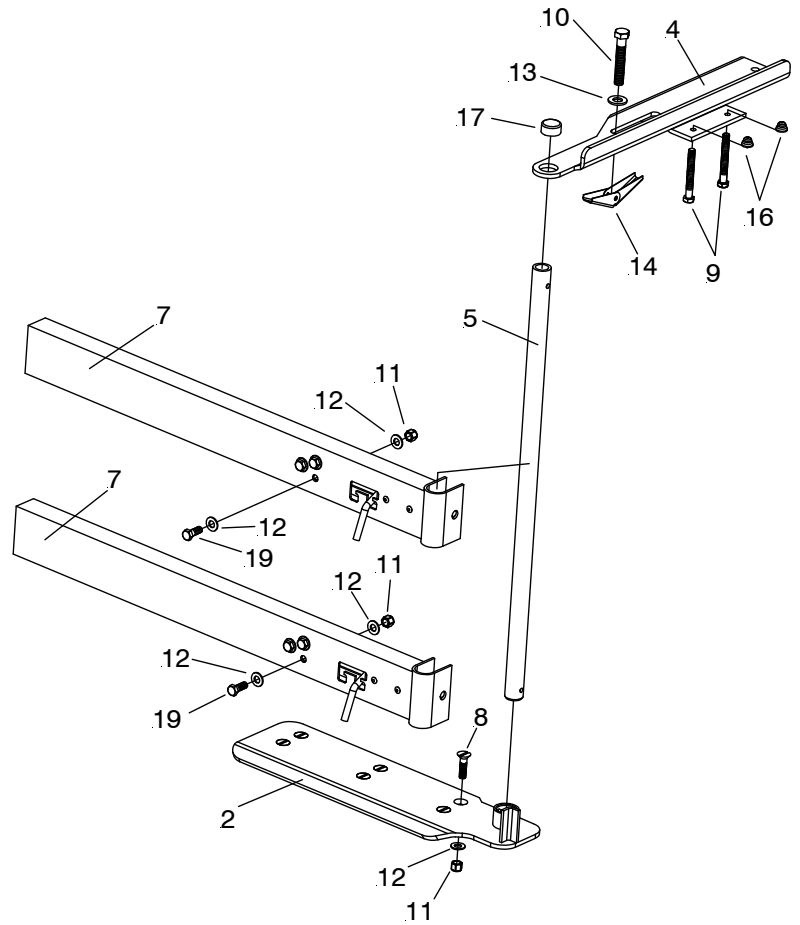
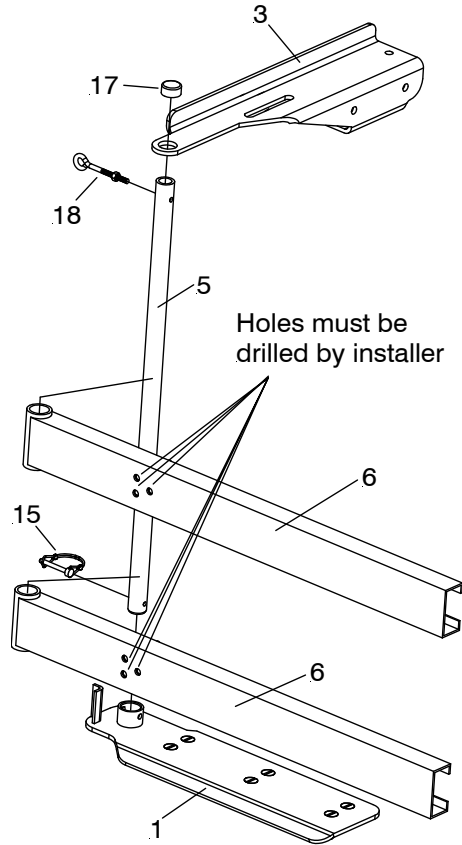
As with any new equipment installation read and understand all instructions prior to starting the job, and do not hurry through it. A correct installation now can save time and money later.

- 1.) Using an assistant, remove the spreader unit and all loose components from the packaging and set the cover aside until installation is complete. Retain original packaging for storage purposes during the "off" season.
- 2.) Find the Driver and Passenger Side Bed Rail Brackets (3 & 4) and center along the top of each bed rail with the slot over the trucks stake pocket. Attach using 1/2-13 x 3" Bolt (11), 1/2" Flatwasher (14) and 1/2-13 Toggle Wing (2) through the slot and stake pocket. Hand tighten both sides.
- 3.) Slide the Driver and Passenger Side Bed Rail Brackets (3 & 4) out toward the back of the truck. This will assist in determining the correct distance for mounting the spreader away from the tailgate, approximately 2" of clearance.
- 4.) Place the Driver and Passenger Side Bumper Plates (1 & 2) on the bumper. Slide the Hinge Pin (5) through the bed rail bracket and into the socket on the bumper plates. Lower the tailgate to check that it will still function properly.
- 5.) Before drilling any holes double check that the Driver and Passenger Side Bumper Plates (1 & 2) are parallel and level with each other. Use a square or level to check that the Hinge Pin (5) is vertical and square to the Driver and Passenger Side Bumper Plates (1 & 2) and Driver and Passenger Side Bed Rail Brackets (3 & 4). NOTE: The driver and passenger side mounting components are mirror images of each other, and each side must be installed in exactly the same manor for the spreader to open and close properly. After everything has been checked, remove the Hinge Pins (5) and keep them handy, they will be used shortly. Tighten the toggle bolts in the Driver and Passenger Side Bed Rail Brackets (3 & 4). **Do not exceed 30 Ft. lbs. of torque.**
- 6.) If possible clamp the Driver and Passenger Side Bumper Plates (1 & 2) to the bumper and use them as guide for drilling, if that is not possible use a center punch or scribe to mark the holes. Mount the plate using 3/8-16 x 1" Screws (8), 3/8" Flatwashers (13), and 3/8-16 Locknuts (12) that are included in the swing mount hardware package.
- 7.) Install the two Hinge Channel (6) on the driver side (left) of the frame. Install the two Locking Arm Assemblies (7) on the passenger side (right). Install the Hinge Pin (5) on the passenger side and lock it in place in the bumper plate base with the 1/4" Snap Pin (16) provided. Pull back the two latches on the passenger Locking Arm Assemblies (7) to their open/locked position. With an assistant, lift the spreader upright (hopper opening face up) and set it on the newly installed bumper plates. With the assistant holding the spreader, slide the "C" channels outward from the main frame so that the Hinge Channel (6) on the driver's side line up to allow installation of the driver side Hinge Pin (5). Drop the Hinge Pin (5) through to the Driver Side Bumper Plate (1) and lock it in place with the other 1/4" Snap Pin (16). When the "U" shaped ends are placed around the passenger side Hinge Pin (5), release the spring-loaded latches to the closed position and push downward to lock. The spreader should now be supporting itself.
- 8.) Thread 3/8-16 x 3" Bolts (10) into the bottom of the driver side bed rail bracket but do not tighten. Place Bolt Tip Cover (17) on the end of each bolt. Tighten bolts firmly. NOTE: If Bolt Tip Covers (17) are not used, damage to vehicle paint may occur. Repeat this step on the passenger side.
- 9.) **Measure to ensure that the spreader is centered on the vehicle and is supported by the mounting before proceeding.** There will be 6 pre-punched holes on each side of the spreader frame, 3 on the on the upper "C" channel and 3 on the lower. Use these holes as a guide and drill 3/8" Dia. through the adjustable "C" channels. Install 3/8-16 x 1-1/4" Bolt (9) with 3/8" Flatwashers (13) and 3/8-16 Locknuts (12) in each hole.
- 10.) Open the passenger side latches and swing the spreader unit away from the truck to check for binding. If binding occurs it will be caused by one or both of 2 situations:
- 11.) The bolts holding down the Bumper Plates (1 & 2) are striking the frame support blocks. Remove spreader from mounting and reposition 1 bolt at a time until all are clear. New holes can be drilled if necessary.
- 12.) The Hinge Pins (5) are not properly lined up. Adjust Hinge Pins (5) one side at a time by loosening the bolts holding the Bed Rail Bracket (3 & 4) down and reposition the brackets slightly; this will in turn adjust the Hinge Pin (5).

Swinging to passenger side requires removal of driver side Hinge Pin (5). **Make sure all bolts are tight.**
- 13.) Secure the cord coming from the motor to the spreader frame and lower adjustable "C" channel with wire ties. Rout the cord out to the pivot. This will take up the slack in the cord and still allow the spreader to swing. This can be changed at any time by simply routing the cord to the other side.
- 14.) The cover may now be installed and latched both sides. The spreader unit can be pivoted from either the driver or passenger side.
- 15.) **WARNING – TO AVOID DAMAGING YOUR VEHICLE, NEVER ATTEMPT TO SWING THE SPREADER WHEN LOADED WITH MATERIAL.**

NOTE: For your convenience the mounting components will not need to be taken off the vehicle to remove the salt spreader. With an assistant holding the unit remove the driver side hinge pin, open both passenger side latches and lift the spreader up and away. Replace the driver side hinge and security pins.

HINGED MOUNT COMPONENTS (35500)



Parts List

Item	Part No.	Qty.	Description
	35500		Magnum Hinge Mount
1	35505	1	• Bumper Plate DS
2	35506	1	• Bumper Plate PS
3	35502	1	• Bed Rail Bracket DS
4	35503	1	• Bed Rail Bracket PS
5	35504	2	• Hinge Pin
6	35501	2	• Hinge Channel
7	35508	2	• Locking Arm Assembly
8	22754	10	• Bolt 3/8-16 x 1-1/4" SS
9	22743	4	• Bolt 3/8-16 x 3" SS
10	22736	2	• Bolt 1/2-13 x 3" SS
11	22735	20	• Locknut 3/8-16 SS
12	22734	34	• Flawasher 3/8" SS
13	22733	2	• Flawasher 1/2" SS
14	22744	2	• Toggle Wing 1/2-13
15	22745	2	• 1/4" Snap Pin
16	22746	4	• Bolt Tip Cover
17	22747	2	• Pipe Cap
18	22748	1	• Eye Bolt W/Nut 1/4-20
19	22737	12	• Bolt 3/8-16 x 1" SS

Parts indented are included in the assembly under which they are indented.

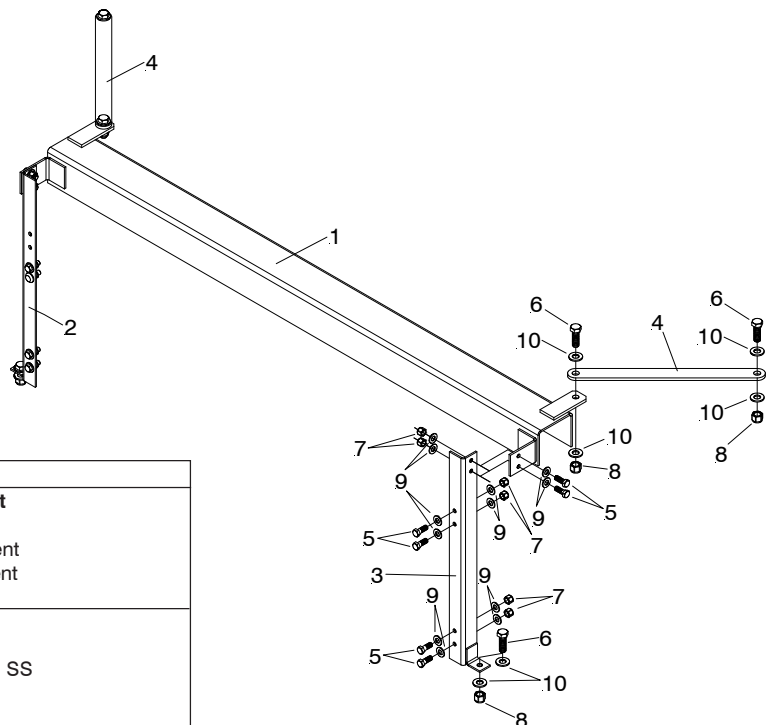
INSTALLING FIXED MOUNT MODEL: (35200)

This section covers the installation of an Magnum 1075 as a fixed mount.

CAUTION – because of its bulk and weight, this salt spreader should be installed with an assistant. As with any new equipment installation, please read and understand all instructions prior to starting the job, and do not hurry through it. A correct installation now can save time and money later.

- 1.) With the help of an assistant, remove the spreader unit and all loose components from the packaging and set the cover aside until installation is complete. Retain original packaging for storage.
- 2.) Bolt the DS & PS Upright Weldments (2 & 3) to the spreader frame using (4) 3/8-16 x 1" Bolts (5) with 3/8" Flatwashers (9) and 3/16 Locknuts (7).
- 3.) Place the Tailgate Bracket (1) over the tailgate, centered with the brackets pointed away from the truck as shown below.
- 4.) Set the spreader with attached DS & PS Upright Weldments (1 & 2) on the bumper and center it with respect to the tailgate. After setting the spreader in place, the DS & PS Upright Weldments (1 & 2) should fall between the brackets welded to the Tailgate Bracket. Using a "C" clamp or vise grip pliers, clamp the DS & PS Upright Weldments (1 & 2) to the Tailgate Bracket (1) weldment brackets.
- 5.) Check that the unit is level and centered on the truck.
- 6.) The Tailgate Bracket (1) weldment brackets will have 2 holes in each, use these holes as a guide and drill a 3/8" hole through the DS & PS Upright Weldments (1 & 2). Be sure to place a 3/8-16 x 1" Bolt (5) with 3/8" Flatwashers (9) and 3/8-16 Locknuts (7) in each hole before removing clamps.
- 7.) Again, check to see that the unit is centered on the truck. Bolt both Stiffener brackets (4) to the Tailgate Bracket (1) using a 1/2-13 x 1-1/2" Bolt (6) with 1/2" Flatwashers (10) and 1/2-13 Locknuts (8) for each side. Do not tighten these bolts yet.
- 8.) Swing Stiffener brackets (4) until pre-punched hole is centered with top of bed rail. Use the Stiffener bracket (4) as a guide and drill 1/2" Dia. hole through the bed rail on both sides. Use a 1/2-13 x 1-1/2 Bolt (6) with 1/2" Flatwashers (10) and 1/2-13 Locknut (8) on each side. Tighten all bolts.
- 9.) Use the bottom of the DS & PS Upright Weldments (2 & 3) as a guide for drilling into the bumper. Drill a 3/8" Dia. hole through the bumper and fasten with a 1/2-13 x 1-1/4" Bolt (6) 1/2" Flatwashers (10) and 1/2-13 Locknut (8) on each side.
- 10.) Double check that all nuts and bolts are tight.
- 11.) Install cover and latch both sides.

FIXED MOUNT COMPONENTS (35200)



Parts List

Item	Part No.	Qty.	Description
	35200		Magnum Fixed Mount
1	35207	1	• Tailgate Bracket
2	35205	1	• DS Upright Weldment
3	35202	1	• PS Upright Weldment
4	35201	2	• Stiffener
	35211	1	• Hardware Bag
5	22737	12	• Bolt 3/8-16 x 1" SS
6	22742	6	• Bolt 1/2-13 x 1-1/2" SS
7	22735	4	• Locknut 3/8-16 SS
8	22732	6	• Locknut 1/2-13 SS
9	22734	16	• Flatwasher 3/8" SS
10	22733	12	• Flatwasher 1/2" SS

Parts indented are included in the assembly under which they are indented.

ASSEMBLY INSTRUCTIONS FOR DUMP BED MOUNTING (35300)

Note: This mounting is designed to support a Magnum 1075 spreader when mounted to a 2 or 3 yard dump truck with a tailgate.

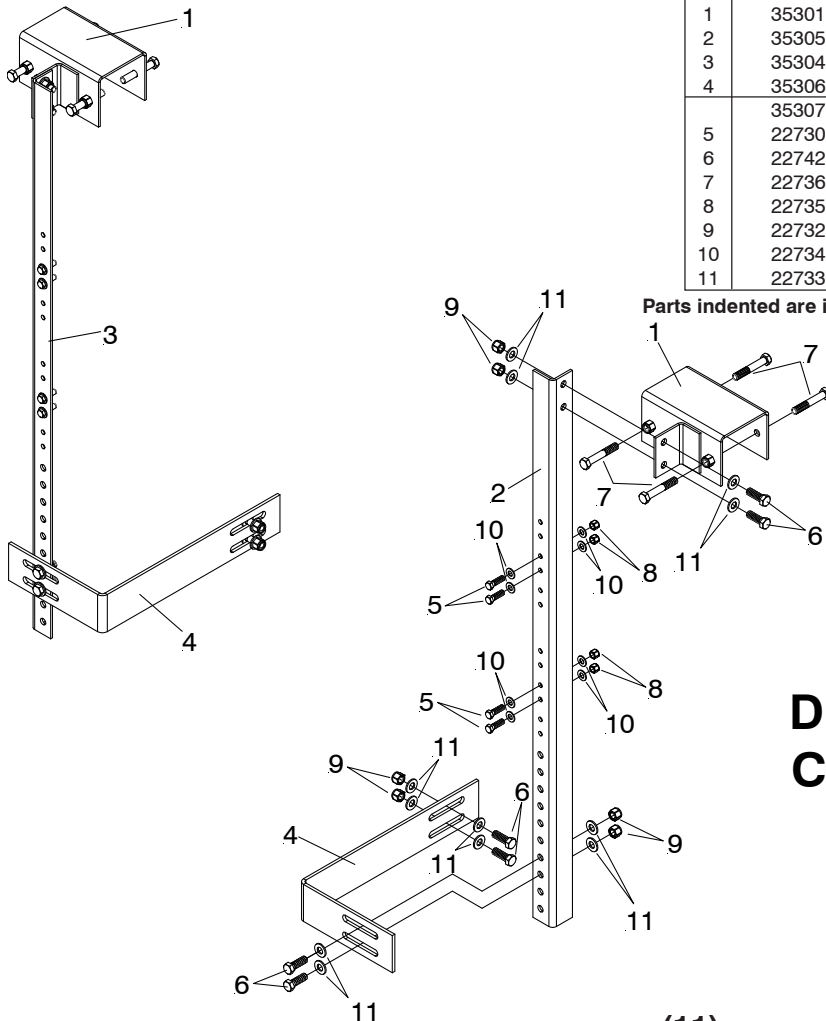
- 1.) Start by placing the spreader on the ground face down, locate the PS & DS Upright Weldment (2 & 3) and eight 3/8"-16 x 1-1/4" Bolts (5), sixteen 3/8" Flatwashers (10) and eight 3/8-16 Locknuts (8). The PS & DS Upright Weldment (2 & 3) come with a series of pre-drilled holes these are to allow for flexibility in the height of the spreader when mounted and the adjustability of the Lower Supports (4). Place the PS & DS Upright Weldment (2 & 3) onto into the spreader frame making sure that the same pattern of mounting holes is used for each side. Bolt the PS & DS Upright Weldment (2 & 3) to each side.
- 2.) Using two 1/2"-13 x 1-1/2" Bolts (6), four 1/2" Flatwashers (11), and two 1/2-13 Locknuts (9), attach Channel Weldment (1) to one of the PS & DS Upright Weldment (2 & 3) so that the channels are rearward of the spreader framework. Repeat this step on the other side. Fully tighten all bolts.
- 3.) With assistance from another person, lift the entire spreader and mounting frame assembly and place centered onto vehicle. The Channel Weldment should seat fully down onto the tailgate. Thread four 1/2"-13 x 3" Bolts (7) into each tailgate Channel Weldment (1) and tighten evenly until all slack is removed. Once again, go through and fully tighten all bolts to provide a good gripping action on the tailgate.
- 4.) The Lower Supports (4) provided with this kit have several long slots. These are to allow for adjustment when installing. First examine the rearward portion of the vehicle frame for existing hole that may be used. If there are no holes present new ones will have to be drilled. Loosely attach the Lower Supports (1) to the lower portion of the PS & DS Upright Weldment (2 & 3) using two 1/2"-13 x 1-1/2" Bolts (6), four 1/2" Flatwashers, and two 1/2-13 Locknuts (9) for each side. Align the Lower Support (1) to the hole or holes in the vehicle frame and attach with two 1/2"-13 x 1-1/2" Bolts (6), four 1/2" Flatwashers, and two 1/2-13 Locknuts (9) for each side.

Double check that the spreader is sitting level and square, and that all fasteners have been sufficiently tightened. Plug the spreader into the wire harness and the unit is ready to be used.

WARNING: Do not raise the dump with the spreader or any of the mounting components attached.

Parts List

Item	Part No.	Qty.	Description
	35300		Magnum Dump Body Mount
1	35301	2	• Channel Weldment
2	35305	1	• PS Upright Weldment
3	35304	1	• DS Upright Weldment
4	35306	2	• Lower Support
	35307	1	• Hardware Bag
5	22730	8	• Bolt 3/8-16 x 1-1/4" SS
6	22742	12	• Bolt 1/2-13 x 1-1/2" SS
7	22736	8	• Bolt 1/2-13 x 3" SS
8	22735	8	• Locknut 3/8-16 SS
9	22732	12	• Locknut 1/2-13 SS
10	22734	16	• Flawasher 3/8" SS
11	22733	24	• Flawasher 1/2" SS



Parts indented are included in the assembly under which they are indented.

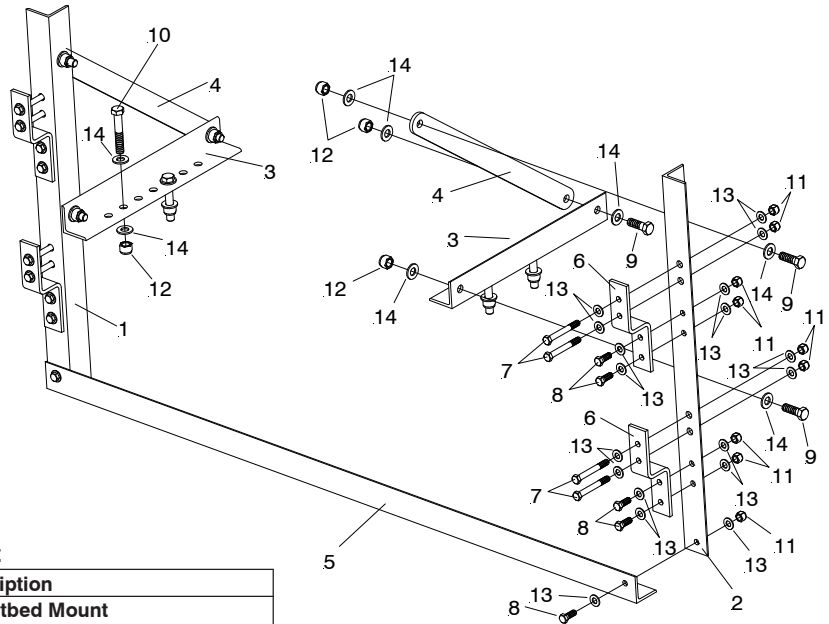
DUMP BED MOUNTING COMPONENTS (35300)

ASSEMBLY INSTRUCTIONS FOR FLATBED MOUNTING (35400)

Note: This mounting is designed for use with the MAGNUM 1075 spreaders, when used with a flat bed vehicle.

- 1.) Begin the assembly by attaching the four Hooks (6) DS & PS Upright Weldments (1 & 2). This is accomplished by using two 3/8"-16 x 1-1/4" Bolts (8) with four 3/8" Flatwashers (13) and two 3/8-16 Locknuts (11) for each hook. Attach two Hooks (6) to each DS & PS Upright Weldments (1 & 2) as shown. Tighten all bolts fully, and make sure the extra bolt hole in the hook face of the vertical support is downward of the hooks as shown, this will be used later.
- 2.) Bolt one Lower Support (3) to each DS & PS Upright Weldments (1 & 2) with Hooks (6) that was assembled in the first step. Use one 1/2"-13 x 1-1/2" Bolt (9), two 1/2" Flatwashers (14), and one 1/2-13 Locknut (12) on the hole closest to the center of the DS & PS Upright Weldments (1 & 2).
- 3.) Locate the Brace (4) and bolt between the DS & PS Upright Weldments (1 & 2) (use highest hole) and Lower Support (3). Use two 1/2"-13 x 1-1/2" Bolt (9), four 1/2" Flatwashers (14), and two 1/2-13 Locknut (12). Check that the DS & PS Upright Weldments (1 & 2) is perpendicular to the Lower Support (3) and that all bolts are tight.
- 4.) Use the Spreader Bar (5) to attach the two triangulated assemblies that were built in steps 1-3 together. Use two 3/8"-16 x 1-1/4" Bolts (8) with four 3/8" Flatwashers (13) and two 3/8-16 Locknuts (11). This part is bolted to the lowest holes in the DS & PS Upright Weldments (1 & 2). Do not fully tighten units until later.
- 5.) Place the mounting into the spreader and align all bolt holes. Fully tighten the Spreader Bar (5) bolts and remove the mounting from the spreader.
- 6.) The mounting can now be bolted to the vehicle. The mounting will come with several pre-drilled holes in the Lower Supports (3) use these as drilling guides. There will need to be four 1/2" holes drilled through the bed so check for any obstructions on the other side before drilling. When possible try to spread the bolt pattern out as far as possible, this will provide the strongest mounting. Use four 1/2"-13 x 3" Bolts (10) with eight 1/2" Flatwashers (14) and four 1/2-13 Locknuts (12).
- 7.) With the help of an assistant place the spreader into the mounting hooks and bolt the spreader to the mount. Use eight 3/8"-16 x 3" Bolts (7) with sixteen 3/8" Flatwashers (13) and eight 3/8-16 Locknuts (11).

FLATBED MOUNTING COMPONENTS (35400)

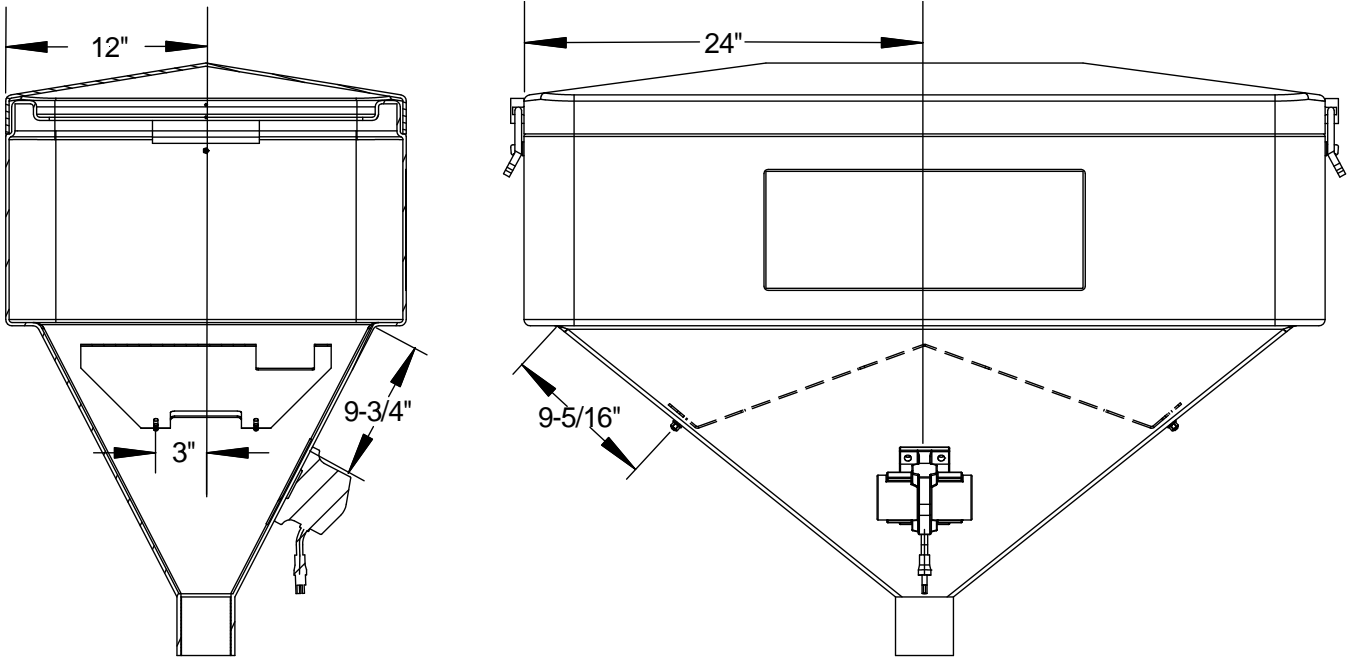


Parts List

Item	Part No.	Qty.	Description
	35400		Magnum Flatbed Mount
1	35405	1	• DS Upright Weldment
2	35404	1	• PS Upright Weldment
3	35403	2	• Lower Support
4	35401	2	• Brace
5	35402	1	• Spreader Bar
6	35406	4	• Hook
	35407	1	• Hardware Bag
7	22743	6	•• Bolt 3/8-16 x 3" SS
8	22730	10	•• Bolt 3/8-16 x 1-1/4" SS
9	22742	8	•• Bolt 1/2-13 x 1-1/2" SS
10	22736	4	•• Bolt 1/2-13 x 3" SS
11	22735	18	•• Locknut 3/8-16 SS
12	22732	10	•• Locknut 1/2-13 SS
13	22734	36	•• Flawasher 3/8" SS
14	22733	20	•• Flawasher 1/2" SS

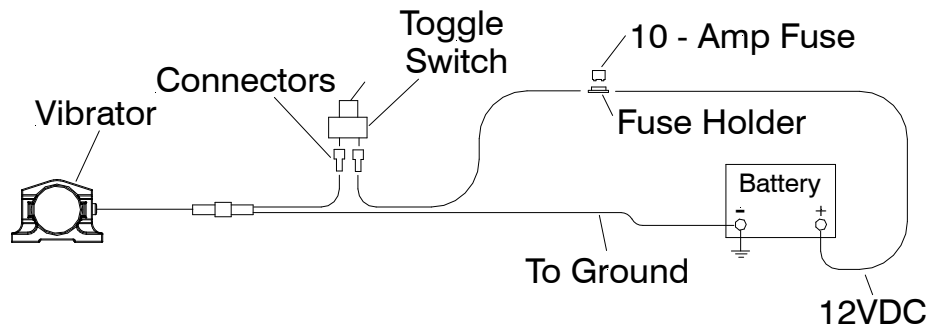
Parts indented are included in the assembly under which they are indented.

SAND VIBRATOR KIT



INSTALLATION INSTRUCTIONS

- A. Insert Baffle Plate (1) and align to measurements shown above. Using the Baffle Plate (1) as a guide mark and drill four 3/8" holes thru the hopper.
- B. Place Vibrator (2) mounting plate inside hopper and align to measurements shown above. Using the mounting plate as a guide mark and drill four 3/8" holes thru the hopper.
- C. Fasten mounting plate on inside of hopper and Vibrator (2) on outside of hopper using hardware provided with the Vibrator (2).
- D. Thread the Auger Extension (4) to the original auger using Set Screw (3).
- E. Fasten Baffle Plate to hopper using four 3/8-16 x 1" Bolt (5), eight 3/8" Flatwashers (7) and four 3/8-16 Locknuts (6).
- F. Install toggle switch in a convenient location and hook up as shown below.



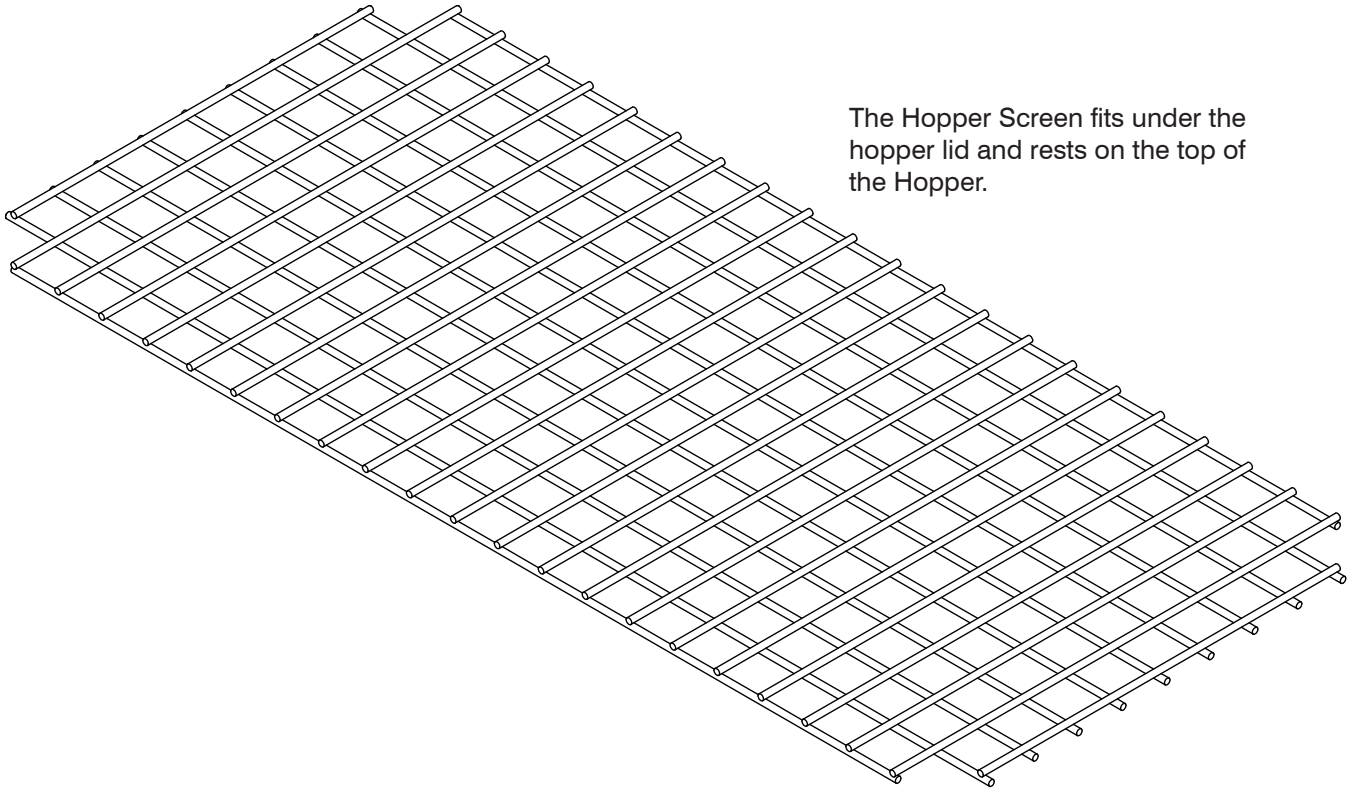
Note: Auger Extension (4) must be removed for Salt only. If it is not removed it may cause motor to stall.

Parts List

Item	Part No.	Qty.	Description
	34600		Sand Vibrator Kit
1	34601	1	• Baffle Plate
2	34602	1	• Vibrator
	34604	1	• Auger Adapter Assy
3	22759	1	•• Set Screw
4	34603	1	•• Auger Extension
	34605	1	• Hardware Bag
5	22737	4	•• Bolt 3/8-16 x 1" SS
6	22735	4	•• Locknut 3/8-16 SS
7	22734	8	•• Flawasher 3/8" SS

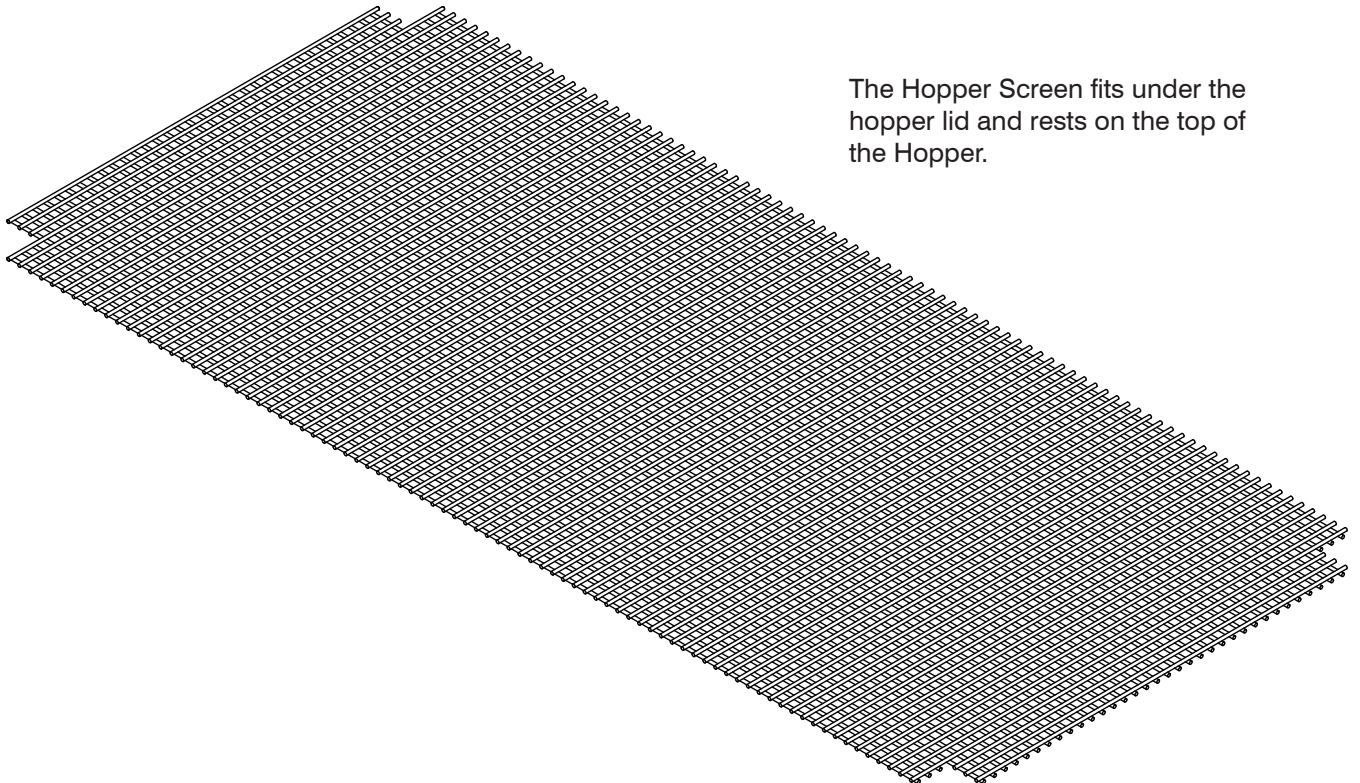
Parts indented are included in the assembly under which they are indented.

34700
2" MESH HOPPER SCREEN



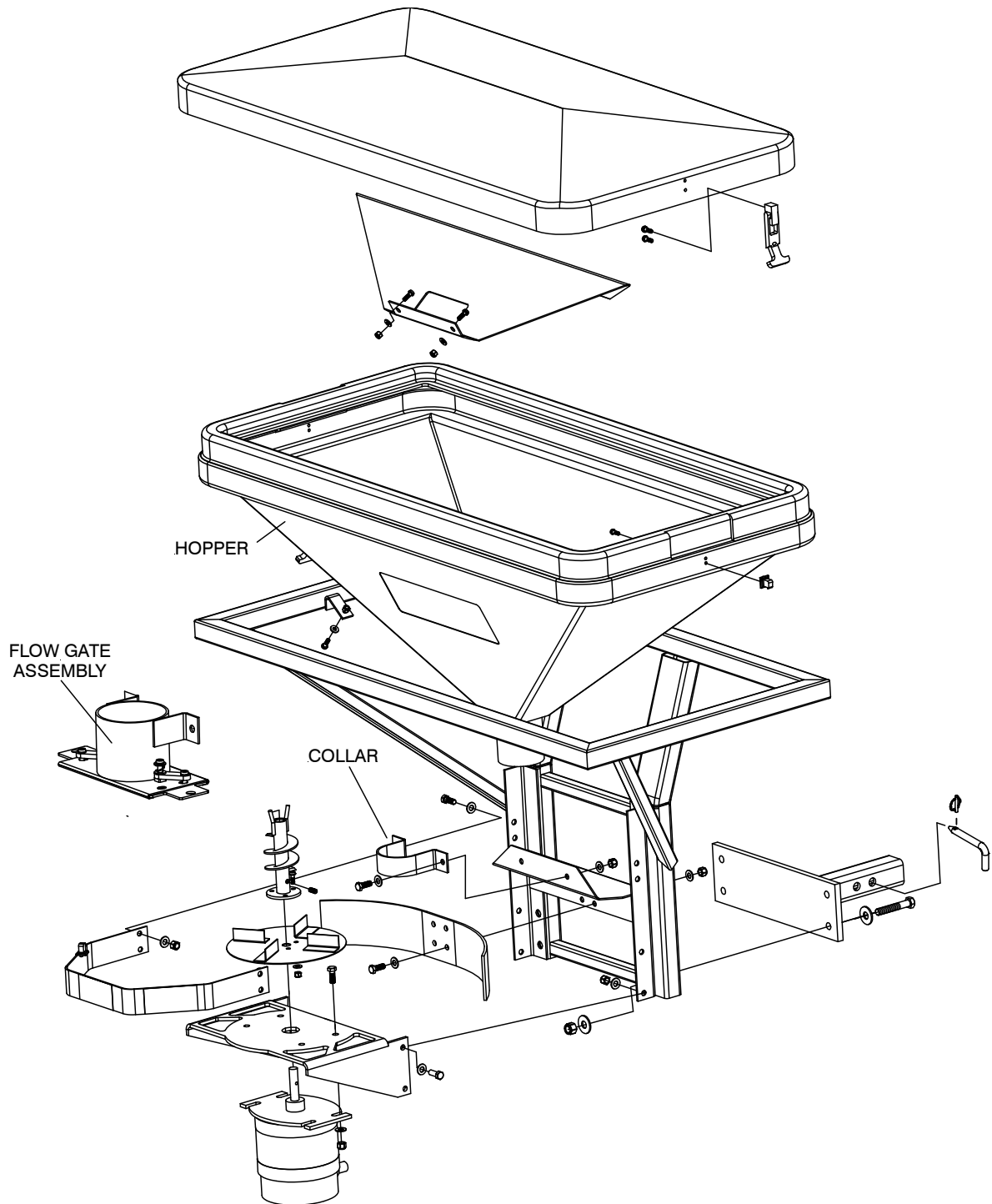
The Hopper Screen fits under the hopper lid and rests on the top of the Hopper.

34701
1/2" MESH HOPPER SCREEN



The Hopper Screen fits under the hopper lid and rests on the top of the Hopper.

34800 FLOW GATE ASSEMBLY



INSTALLATION INSTRUCTIONS

- A. Remove two bolts fastening Collar to Spreader Frame and remove Collar.
- B. Remove two bolts fastening Hopper to Spreader Frame and remove Hopper.
- C. Slide Flow Gate Assembly over Auger and then re-install hopper.
- D. Fasten the Flow Gate Assembly to the Spreader Frame using the same fasteners used on the Collar.
- E. The Flow Gate is easily adjusted by pulling up on the pin assembly on each side and adjusting the gate. Re-align pins into the gate holes to lock in position.

OPERATING THE SPREADER

Before using the spreader read and understand all aspects of this operators manual.

PREPARATION

CAUTION – Sweep area clear of foreign objects or obstacles that could cause personal injury. Keep other persons and animals out of area to be spread.

SPREADER LOADING

Your spreader will come equipped with a cover that will protect your de-icing material from rain or snow; this can be removed simply by detaching the holding clamps on the sides of the hopper.

WARNING – Do not overload vehicle. Below is a chart to calculate weight of materials.

<u>MATERIAL</u>	<u>WEIGHT PER CUBIC FT.</u>
Rock Salt	35-40 lbs.
Coarse Sand	85-90 lbs.

WARNING – NEVER leave materials in hopper for long periods of time as de-icing materials are hygroscopic and will attract atmospheric moisture and harden.

Always replace cover after filling to prevent saturation of material from snow or rain.

OPERATING THE SPREADER

The controller is equipped with: on/off switch, lighted dial, rotary speed control, and a blast switch.

To start spreader, be sure vehicle is running to prevent battery from wearing down, flip the switch from off to on. The spreader will power up to full power for approx. one second then drop to wherever the dial has the speed set at. Spreader switch must be flipped to the off position when vehicle is turned off to prevent the vehicle battery from wearing down.

Adjust the speed of the unit by rotating the dial clockwise for faster and counterclockwise for slower.

The burst switch is a momentary full power override, use this if you require a heavier pass in certain areas.

If there are any problems while operating the spreader refer to the troubleshooting guide on page 13.

SPREADING HINTS

Never exceed 10 M.P.H. when spreading.

For a wider pass, increase spinner speed.

For a heavier pass, drive more slowly.

Never operate spreader around people and calculate spread pattern around vegetation.

SPREADER MAINTENANCE

WARNING – Disconnect power to spreader before servicing.

CAUTION – Do not attempt to service control unit. It is a solid-state electronic device and has no user serviceable parts; any attempt to do so will void warranty.

CAUTION - The electric motor is sealed and should not be taken apart for any reason. Disassembly of the motor will void warranty.

CAUTION – When replacing parts use only MAGNUM approved parts or risk voiding warranty.

Use dielectric grease on all electrical connections, before and after each season and whenever the plugs are disconnected. This will ensure long life for the contacts and prevent corrosion.

Wash unit after each use to prevent material build-up and corrosion.

Periodically inspect the motor seal located around the shaft and look for cracks or splits. If seal is damaged or missing contact the manufacturer for a replacement.

At the end of the season thoroughly clean all parts and paint or oil all bare metal surfaces (except for hopper and spinner which are stainless steel and do not require painting). Using a paste wax on the inside of the hopper will help material flow smoothly.
OIL SHAFT AT MOTOR BASE TO PREVENT RUST DURING NON-USE.

TROUBLESHOOTING

If your spreader is not operating properly, take it to your local MAGNUM SPREADER dealer for maintenance or service. However, that is not always possible, so below on this page you will find a troubleshooting guide, which can assist you in determining the problem.

WARNING – Before performing any service read and understand all safety guidelines stated in this manual.

BEFORE CALLING YOUR DEALER

Be sure all electrical connections are clean and tight.

Be sure vehicle power supply is working properly (battery charged)

Check the hopper for a jammed feed screw.

PROBLEM	POSSIBLE CAUSE	SOLUTION
Motor does not run.	Loose electrical connection.	Check all electrical connections.
Shut Down,	Auger or spinner jammed Jammed auger. Poor electrical connections. Electrical short.	Carefully remove jammed material. Carefully remove jammed material. Clean or replace connectors. Look for bare or loose wires.
Material will not feed.	Controller bad. No material in the hopper. Material is wet. Frozen or coarse material. Auger loose on motor shaft.	Replace controller. Fill hopper. Replace with dry material. Replace material. Tighten setscrew on side if auger. There is a flat machined into the motor shaft, this set screw must tighten onto that flat.

TWO YEAR WARRANTY

TWO YEAR WARRANTY

Magnum Spreader promises to the consumer to repair, or at our option to replace any part of this Magnum Spreader, accessory (other than noted below) except expendable parts such as pins, Spreader fins, and other normal wear items, which proves to be defective in workmanship or material under normal use for a period of two year's from the date of delivery to the original purchaser. During the two year's, Magnum Spreader will provide, through its Distributor / Sub-Distributor network, all labor or parts necessary to correct such defects free of charge. Faulty parts will be repaired or replaced by the Distributor / Sub-Distributor where that particular piece of equipment was purchased. Any cost incurred in returning the product to the Distributor / Sub-Distributor is the responsibility of the consumer.

EXCLUSIONS

IN NO EVENT SHALL MAGNUM SPREADER BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR FOR DAMAGES RESULTING FROM LACK OF NECESSARY MAINTENANCE, FROM MISUSE, ABUSE, ACTS OF GOD, ALTERATION OF ANY PRODUCT, OR FROM USE OF PARTS NOT SUPPLIED BY MAGNUM SPREADER. USE OF THE MAGNUM SPREADER FOR ANY PURPOSE OTHER THAN SPREADING MATERIALS AS INTENDED BY MAGNUM SPREADER, IS ONE EXAMPLE OF AN ABUSE AND MISUSE OF THE PRODUCT.

WARRANTY SERVICE

In order to obtain service under this warranty, the consumer must return this product to the Distributor / Sub-Distributor from whom the product was purchased or to any authorized Magnum Spreader Distributor / Sub-Distributor, transportation and freight charges prepaid. Only Magnum Spreader Distributors / Sub-Distributors are authorized to perform the obligations under these warranties. For the address and telephone number of the Distributor / Sub-Distributor nearest you, check the telephone directory or you may write to the warrantor at the address below.

GENERAL

It is the responsibility of the consumer to establish the warranty period by verifying the original delivery date. A bill of sale, canceled check or some other appropriate payment record may be kept for that purpose. For this warranty to be effective, the consumer must Register the product on-line at **www.magnumspreaders.com**. No person is authorized to change this warranty or to create any warranty other than that set forth herein. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

In order to validate this warranty, please go to our web site www.magnumspreaders.com to register your new Magnum Spreader.

Magnum Spreader reserves the right, under its continuing product improvement program, to change construction or design details, specifications and prices without notice or without incurring any obligation.

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