

This Manual Must Be Read Before Operating The Equipment

Owner / Operator's Manual



FOR MODEL:

SP-9800XH



Madison Heights, Michigan 48071
800-725-8377
www.snowexproducts.com

Customer Copy

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Have a question or need assistance?

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General Information



CONGRATULATIONS!

The spreader you have purchased is an example of snow and ice control technology at its finest! Your spreader's self-contained design is a trademark of all SnowEx products. Here's why...

SIMPLICITY: Fewer moving parts manufactured of higher quality means minimal maintenance for your SnowEx spreader.

RELIABILITY: High impact linear low density polyethylene hopper. State-of-the-art electronic dual variable speed control, custom engineered powder coated frame, maximum torque hydraulic motor, found only on SnowEx products.

VERSATILITY: Multi-use capabilities allows spreading of a variety of materials for snow and ice control.

WARRANTY: Best in the industry, hands down! 2 years standard and now 5 year extended (optional).

The benefits you are about to recognize are that of time, money and effort.
We welcome you to the world of SnowEx Performance.

Registration

Record the following information in this manual for quick reference.

Spreader Model Number _____

Spreader Serial Number _____

Handheld Control Pendant Serial Number _____ Control Board Serial Number _____

Date of Purchase _____

Dealer Where Purchased _____

When ordering Parts, the above information is necessary. This will help to see that you receive the correct parts.

At the right is a diagram of the ID tag. This tag on the spreader is located on the frame.

Please fill out the warranty card with all the necessary information to validate it. This will also give us a record so that any safety or service information can be communicated to you.



This manual has been designed for your help. It will assist you and instruct you on the proper set-up, installation and use of this spreader.

Refer to the table of contents for an outline of this manual.

We require that you read and understand the contents of this manual completely (especially all safety information) before attempting any procedure contained herein.



THIS SIGN SHOULD ALERT YOU:

The Society of Automotive Engineers has adopted this **SAFETY ALERT SYMBOL** to pinpoint characteristics that, if **NOT** carefully followed, can create a safety hazard. When you see this symbol in this manual or on the machine itself, **BE ALERT!** Your personal safety and the safety of others is involved.

Defined below are the **SAFETY ALERT** messages and how they will appear in this manual:



DANGER

(RED)

Information that, if not carefully followed, can cause death!



WARNING

(ORANGE)

Information that, if not carefully followed, can cause serious personal injury or death!



CAUTION

(YELLOW)

Information that, if not carefully followed, can cause minor injury or damage to equipment



Before attempting any procedure in this book, these safety instructions must be read and understood by all workers who have any part in the preparation or use of this equipment.

For your safety warning and information decals have been placed on this product to remind the operator of safety precautions . If anything happens to mark or destroy the decals, please request new ones from SnowEx.



Never exceed the Gross Vehicle Weight Rating of vehicle. Failure to do so may limit a vehicles handling characteristics.

Never attempt to take a unit off a truck with material in it.



Always keep hands, feet, and clothing away from power driven parts.

Unit must be pinned and locked into position before operating vehicle.

Always shut off vehicle and power source before attempting to attach or detach or service unit Be sure vehicle/power source is properly braked or chocked.

Remember, most accidents are preventable and caused by human error. Exercising of care and precautions must be observed to prevent the possibility of injury to operator or others!

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

Before working with the spreader, secure all loose fitting clothing and unrestrained hair.

Always wear safety glasses with side shields when servicing spreader. Failure to do this could result in serious injury to the eyes.

Never allow children to operate or climb on equipment.

Always check areas to be spread to be sure no hazardous conditions or substances are in the area.

Always inspect unit for defects: broken, worn or bent parts, weakened areas on spreader.

Remember it is the owner's responsibility to communicate information on safe usage and proper maintenance of all equipment.

Always make sure personnel are clear of areas of danger when using equipment.

Never weld or grind on equipment without having a fire extinguisher available.

Inspect the unit periodically for defects. Parts that are broken, missing or worn out must be replaced immediately. The unit or any part of it can not be altered without prior written permission from the manufacturer.

Always inspect pins and latches whenever attaching or detaching spreader, and before operation of spreader.

Never exceed 45 m.p.h. when loaded spreader is attached to vehicle. Braking distances may be increased and handling characteristics may be impaired at speeds above 45 m.p.h.



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.

Never leave material in hopper for long periods of time. Be aware that all ice melters are hygroscopic and will attract atmospheric moisture and harden up.

Warning Decal Positions

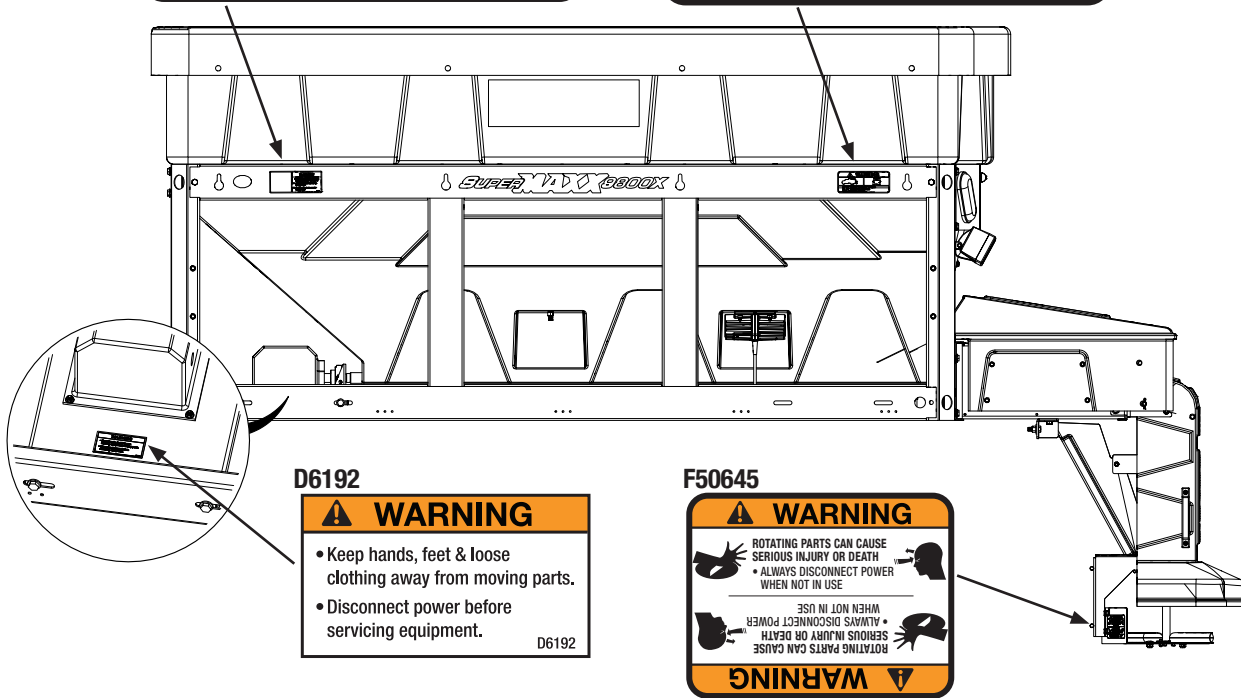
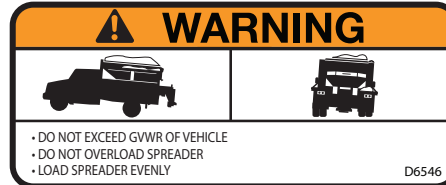


Model # SP-9800XH

D6335



D6546



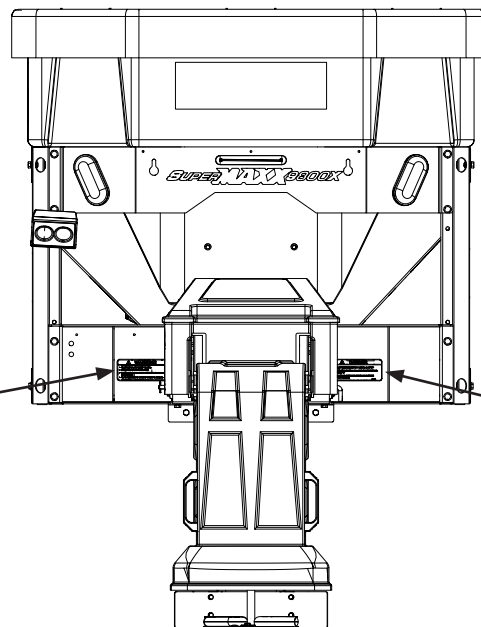
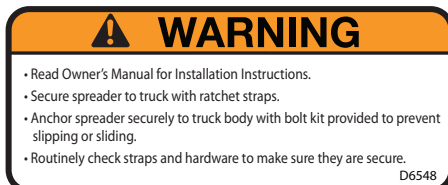
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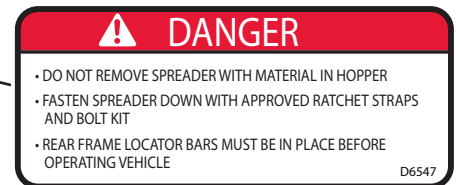
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D6548



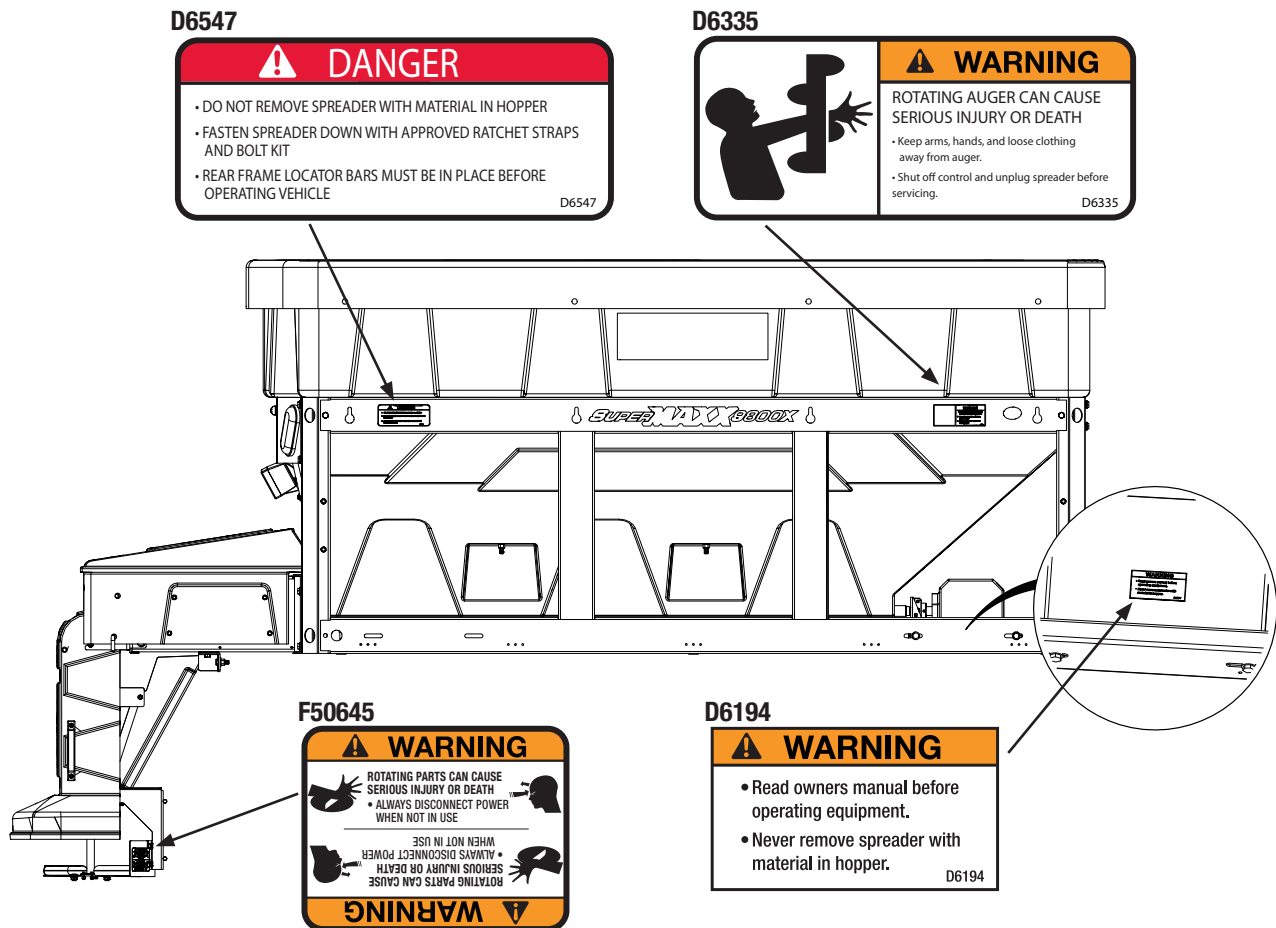
D6547



Warning Decal Positions



Model # SP-9800XH



Operating the Spreader



Model # SP-9800XH

Spreader Loading

WARNING: Do not overload vehicle.

Use chart below to calculate weight of material. Weights of material are an average for dry materials.

Material	Weight Per Cubic Ft.
Rock Salt	80-90 lbs.
Sand/Salt Mix	95-120 lbs.

WARNING: Never leave material in hopper for long periods of time as salt is hygroscopic and will attract atmospheric moisture and harden up.

When spreading sand mix, a 1:1 ratio for Sand/Salt mix is recommended to prevent the material from freezing.

Spreading Tips

For a heavier pass:

Decrease vehicle speed

Increase Auger speed

For a lighter pass:

Increase vehicle speed

Decrease Auger speed

For a wider pass:

Increase spinner speed

Spread ice melters with the storm to prevent unmanageable levels of ice.

Never exceed 10 miles per hour when spreading.

Calculate spread pattern when near vegetation and other vehicles.

Never operate spreader near pedestrians.

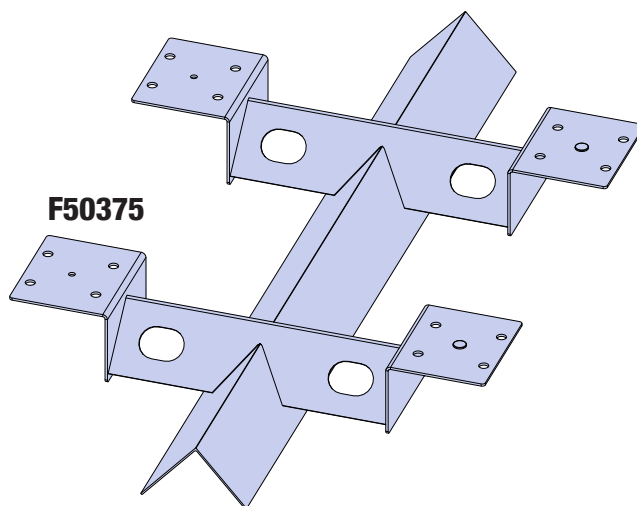
Operating Spreader



Model # SP-9800XH

INVERTED-V INSTRUCTIONS

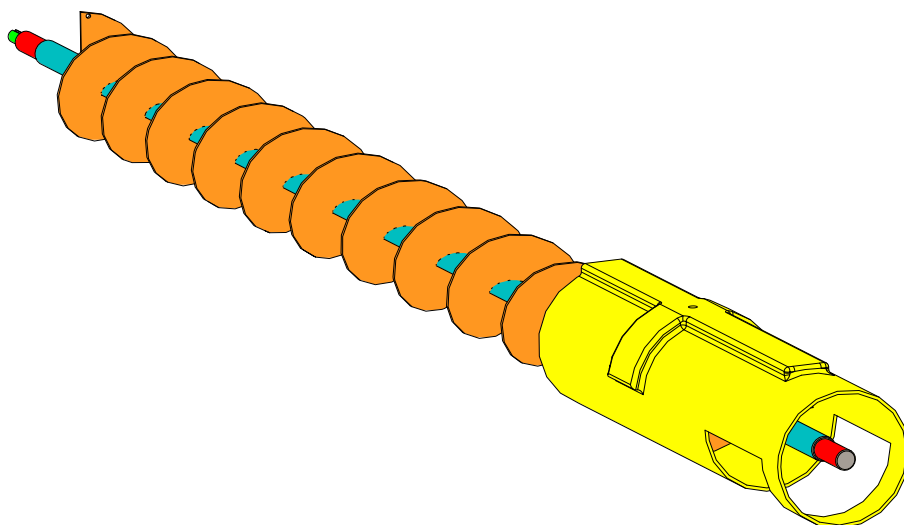
- The Super-Maxx 9800 uses an inverted-v design over the auger area. This inverted-v (F50375) is used to reduce load to the auger drive train. It must not be removed unless servicing the unit.
- **WARNING:** Always disconnect power source before attempting to remove material baffle.



AUGER DISCHARGE TUBE INSTRUCTIONS

- The Super-Maxx Spreaders use an auger discharge tube to reduce material leakage. It must not be removed unless servicing the unit.
- **WARNING:** Always disconnect power source before attempting to remove auger discharge tube.

Auger Discharge Tube



Operating the Spreader

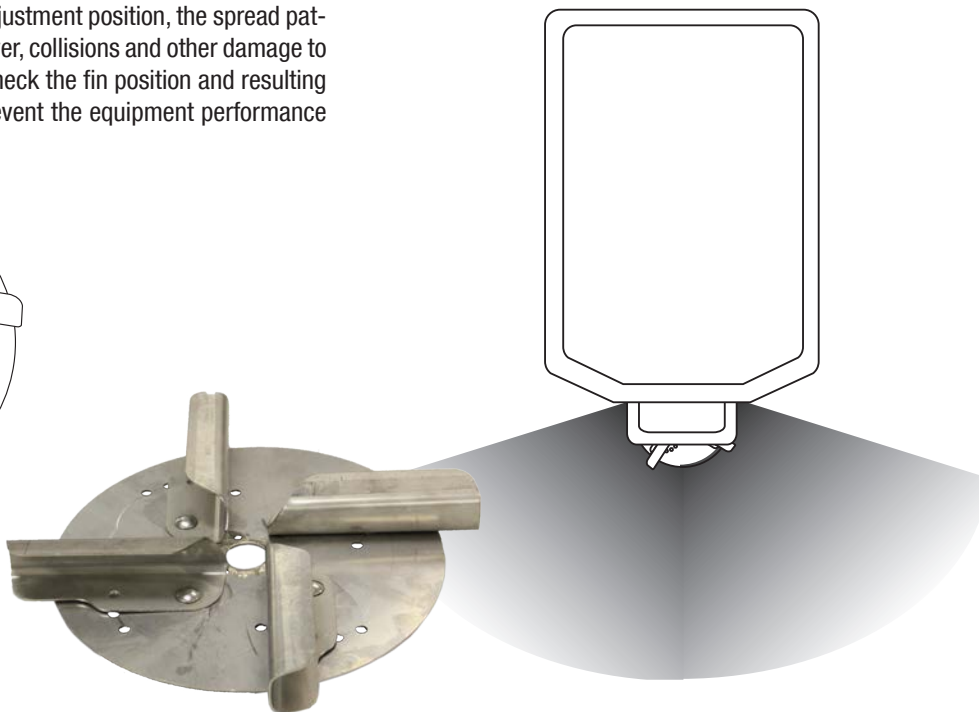
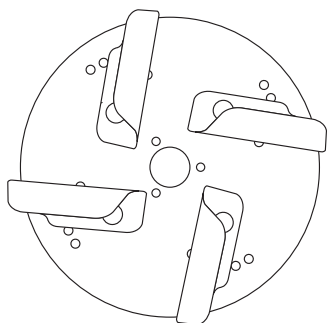


Model # SP-9800XH

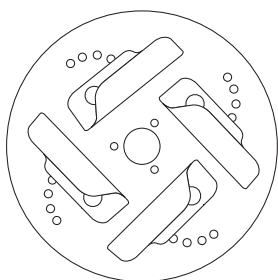
ADJUSTABLE SPINNER INSTRUCTIONS

Your spreader is equipped with an adjustable spinner to assist you in more precise material application. The Spinner plate gives the operator control of whether the material spreads to the right, left or is centered. All of the fins should be in the same position; this will keep the spread pattern consistent and have even ground coverage. Before operating the spreader, spread some material in a clear area where you can easily observe the spread pattern and how it changes. Adjust according to the instructions below to get the pattern you desire.

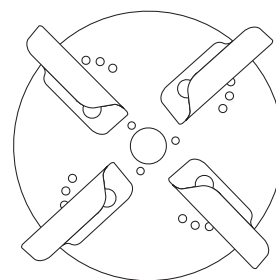
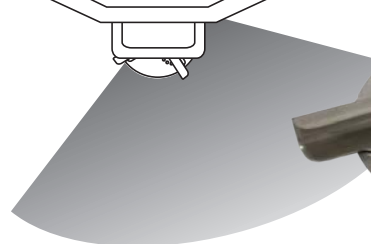
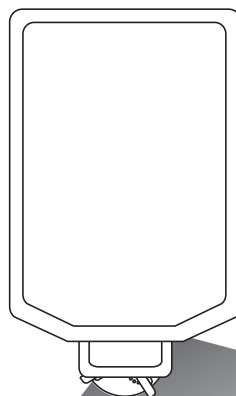
When the fins are in their center adjustment position, the spread pattern will be mostly centered. However, collisions and other damage to the equipment may change this. Check the fin position and resulting spread pattern often enough to prevent the equipment performance from being adversely affected.



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

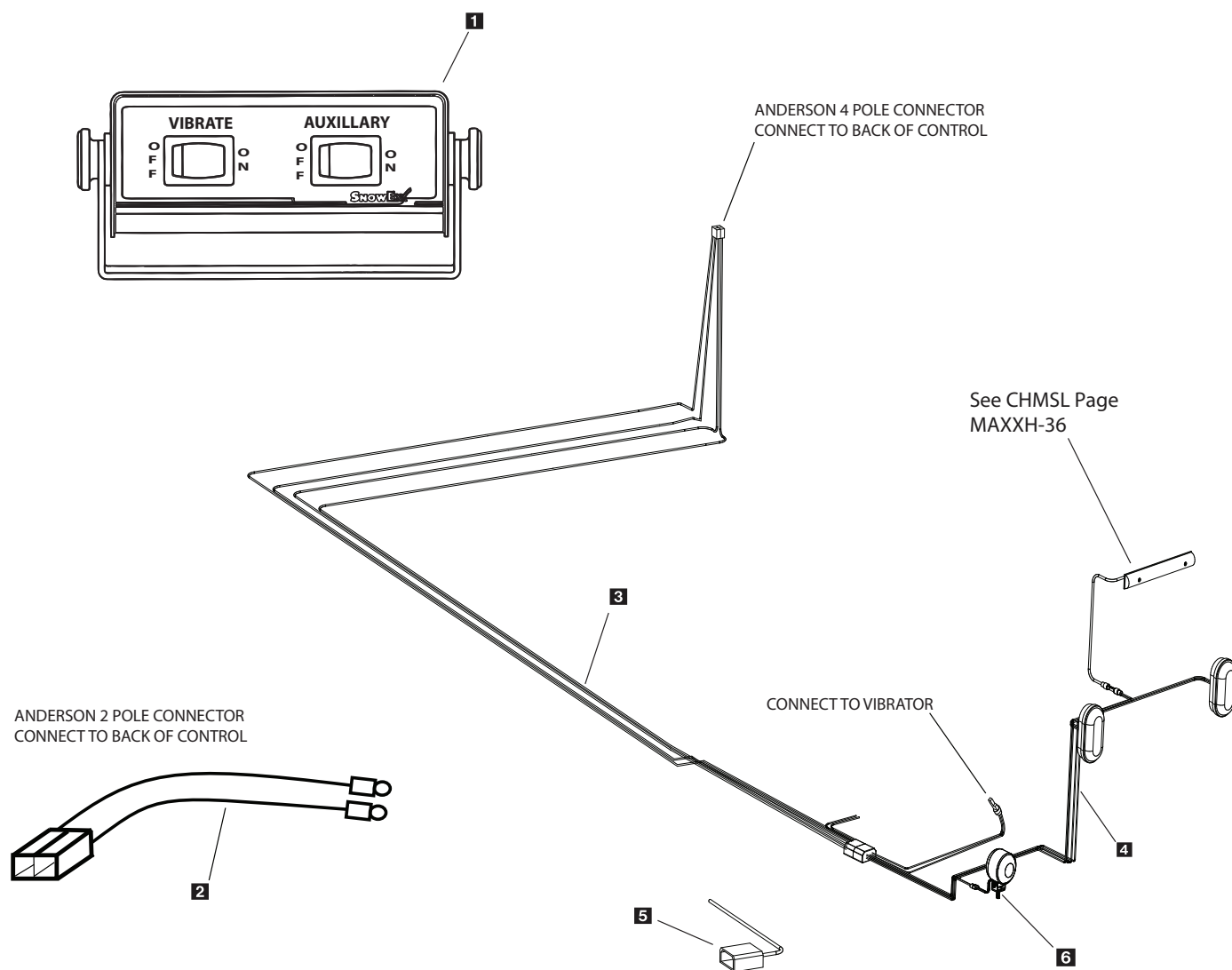


When looking down at the spinner, moving the fins counter-clockwise will adjust the spread pattern toward the right side of the spreader.



Control and Harness Diagram

Model # SP-9800XH



Key	Part No.	Description	Qty.
1	D 5774	Control	1
2	D 5772	Control Power Harness	1
3	D 5771	Vehicle Harness	1
4	D 5780	Spreader Harness	1
5	D 6343	Vehicle Harness Dust Cap	1
6	D 6786	Work Light	1

Spreader Maintenance



Model # SP-9800XH

General Maintenance

Use dielectric grease on all electrical connections to prevent corrosion at the beginning and end of the season and each time power plugs are disconnected.

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

Paint or oil all bare metal surfaces at the end of the season.

Apply small amount of light oil to latches as needed.

After first use, tighten all nuts and bolts on spreader and mount.

Grease bearings after every 20 hour's use.

Store control in cool dry place during the off season.

Warning

When servicing is necessary, perform it in a protected area. Do not use power tools in rain or snow because of danger of electrical shock or injury. Keep area well lighted. Use proper tools. Keep the area of service clean to help avoid accidents.

Never remove spreader with material in hopper.

Disconnect electricity to spreader before servicing.

Caution

Vibrator is not designed for continuous duty. Allow motor to cool between long cycle times.

Do not modify vehicle or spreader wiring harness. Doing so will void product warranty.

When replacing parts use only original manufacturer's parts. Failure to do so will void warranty.

The controller is a solid state electronic unit and is not serviceable. Any attempt to service will void warranty.

There are no serviceable parts in the motor/transmission assembly. Any attempt to service will void warranty.

Spinner motor is not designed for continuous duty. Allow motor to cool between long cycle times.

When pressure washing motor enclosure area, stay at least 36" away from motor enclosures.

Wiring Instructions



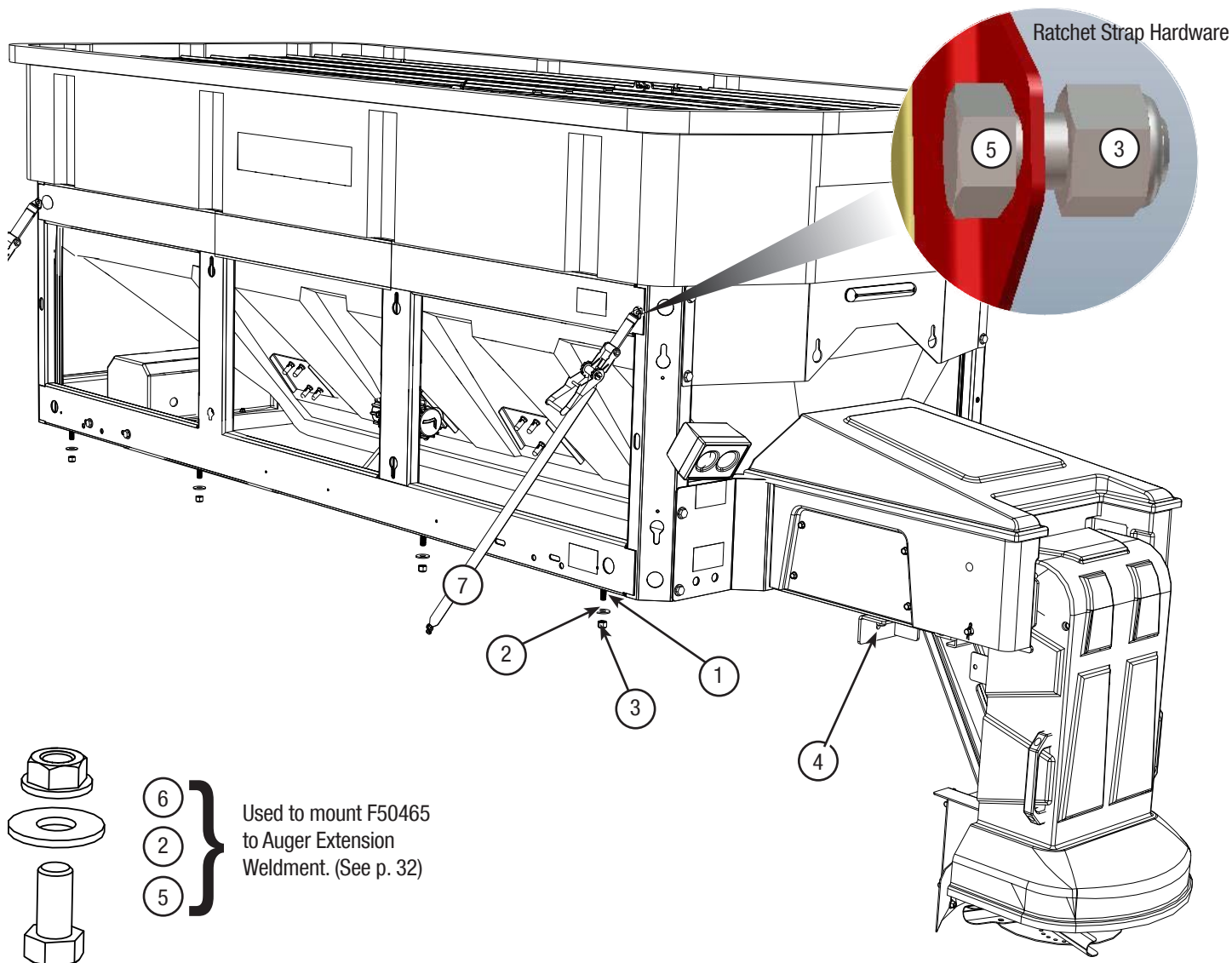
Model # SP-9800XH

- Step 1: Take harness assembly and route from the rear of the vehicle to the front. Route harness along frame and attach to frame hole and frame supports. It is not recommended to attach to fuel or brake lines for obvious reasons. Do not route close to exhaust system or engine, even though Snowex uses high temperature wiring. It still could melt under extreme heat and short the spreader electrical system, as well as the vehicle electrical system.
- Step 2: Mount rear plug on bumper using supplied bolts, locate towards the center of the bumper to reduce the amount of debris the tires will throw to the rear. Important: Apply a small amount of dielectric grease to the plug. Also try to mount so plug faces upward to help keep plugs tightly sealed.
- Step 3: Secure harness from the rear to the front using heavy duty ty-wraps or frame clips along the frame and lighter duty ty-wraps everywhere else.
- Step 4: Layout harness portion that connects to the battery along the fire wall and fender well. Do not connect power leads to battery yet. Drill a 3/4" hole in the fire wall, or use existing access hole, for the control portion of the harness and route connector and harness through hole. Be sure to check the area on the other side of the fire wall to make sure you are not drilling into the vehicle harness or a control module. Generally you can drill on either side of the steering wheel for a good location.
- Step 4A: The power harness from control box to battery will need to be routed from the inside of the cab to the battery – this results from the large high amperage connector. Route leads with lugs to battery — do not connect power at this time.
- Step 5: Connect harness to the back of the controller and mount to a suitable location. NOTE: You may want to contact customer before mounting controller as some prefer not to have holes drilled into the dashboard. Ty-wrap loose controller harness and move to the engine compartment. Do not mount close to any heater vents.
- Step 6: Connect power leads to the battery: Red + Positive, Black – Negative, always connect to the primary battery if using a dual battery system. Secure loose loom to any other large or medium vehicle harness with medium duty ty-wraps, this will secure wiring harness.
- Step 7: Push the ON/OFF button on the controller to check for power ; when that has been confirmed turn power OFF. The electrical portion of the installation is complete.

Mounting System Diagrams



Model # SP-9800XH



Key	Part No.	Description	Qty.
1	D4116	Bolt 1/2"-13 X 1-1/2"	10
2	D4119	Washer 1/2" Flat	10
3	D4120	Nut 1/2"-13 Nylox	14
4	F50465	Rear Stop Bracket	1
5	D4115	Bolt 1/2"-13 X 1"	6
6	D5535	Nut 1/2"-13 Serrated Flange	2
7	F50600	X-Series Ratchet Straps (4PK)	1

DANGER

Rear stop bar, ratchet straps and mount kit must always be in place. All mounting systems work together; none of them should be used exclusive of the other methods. Do not remove unless servicing spreader or removing the spreader from vehicle. Check straps and hardware before each use, making sure spreader is completely stable.

Mounting Instructions



Model # SP-9800XH

Step 1: If using pickup/dump body, remove tailgate. If using platform body, remove rear stake sides.

Step 2: Load spreader onto truck bed.

Step 3: Install Rear Stop Bracket (F50465) onto Auger Extension Weldment (see diagram p. 20) using provided hardware [D4119 x2; D4115 x2; D5535 x2]

Step 4: Slide spreader forward until Stop Bracket touches the rear of the truck body.

Step 5: Slide spreader left or right keeping the spreader in the same front-to-back alignment until centered side-to-side. Use a tape measure for greatest accuracy. The spreader must be centered for the safety of the vehicle, its driver and those nearby.

Step 6: You will notice there are four holes in the bottom rail of each sideframe. These holes are on the bottom of the rail and will be used to mount the spreader to the truck body. There are also two holes in the rear stop bracket. Mark all these hole locations using a paint pen or similar device.

Step 7: Look underneath the truck body, checking that there are no vehicle components that will be in the path of the drill. If there are interferences, the holes can be relocated in the frame. Make sure there are 2 holes in each sideframe forward and rearward the front-back centerline.

Step 8: Drill the holes in the marked positions using a 9/16 inch drill bit. (You may need to slide the spreader four to eight inches to either side in order to drill the holes without climbing underneath the truck.) Wear eye protection when drilling.

Step 9: Slide the spreader back into position over top of the holes just drilled. Install Bolt through spreader frame and truck body with Washer and Nut below. Tighten all fasteners.

Step 10: Attach Ratchet Straps (F50600) using provided hardware as in diagram inset on page 20. Tighten the fasteners. Hook Ratchet Strap's other end to truck body. Tighten the Straps.

Troubleshooting



Model # SP-9800XH

Preliminary Checks

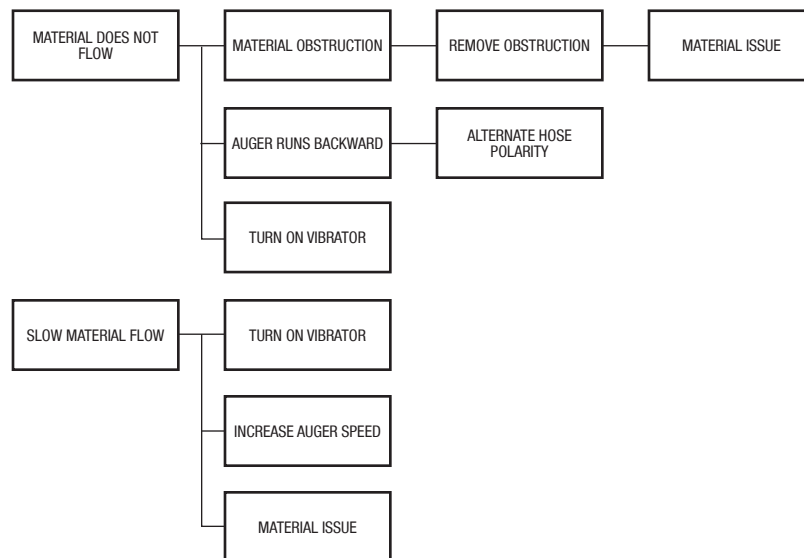
- Be sure all electrical connections are tight and clean.
- Be sure nothing is jammed in the hopper.
- Be sure that all hydraulic connections are properly connected.

PROBLEM	POSSIBLE CAUSE	SOLUTION
Motor doesn't run.	Loose hose connection.	Check all connections.
	Low fluid or pump malfunction.	Fill reservoir or replace pump
Material not flowing from hopper.	Empty hopper.	Fill hopper.
	Wet material.	Replace with dry material.
	Frozen or coarse material.	Replace material.
	Spinner not turning.	Check drive assembly.
	Auger coupling disengaged	Realign and tighten all set screws.
	Vibrator not working.	Check electrical connections.

Troubleshooting Material Flow



Model # SP-9800XH



**Snowex Diagnostic Test Kit (STK-090) is Available To Accurately Diagnose Any Issues With Snowex Spreaders.
Call Your Dealer For Details.**

Limited Warranty

Snowex products are warranted for a period of two years from the date of purchase against defects in material or workmanship under normal use and service, subject to limitations detailed below. Warranty period of two years begins on the date of purchase by the original retail user.

The WARRANTY REGISTRATION CARD must be returned to the manufacturer for this warranty to become effective. This warranty applies to the original retail purchaser only. This warranty does not cover damages caused by improper installation, misuse, lack of proper maintenance, alterations or repairs made by anyone other than authorized Snowex dealers or Snowex personnel. Due to the corrosive properties of the materials dispensed by spreaders, Trynex does not warrant against damage caused by corrosion. Warranty claims by the user must be made to the dealer from where the product was purchased, unless otherwise authorized by Snowex. Snowex reserves the right to determine if any part is defective and to repair or replace such parts as it elects. This warranty does not cover shipping costs of defective parts to or from the dealer.

LIMITATION OF LIABILITY

Neither Snowex, nor any company affiliated with it, makes any warranties, representations for promise as to the performance or quality other than what is herein contained. The liability of Snowex to the purchaser for damages arising out of the manufacture, sale, delivery, use or resale of this spreader shall be limited to and shall not exceed the costs of repair or replacement of defective parts. Snowex shall not be liable for loss of use, inconvenience or any other incidental, indirect or consequential damages, so the above limitations on incidental or consequential damages may not apply to you.

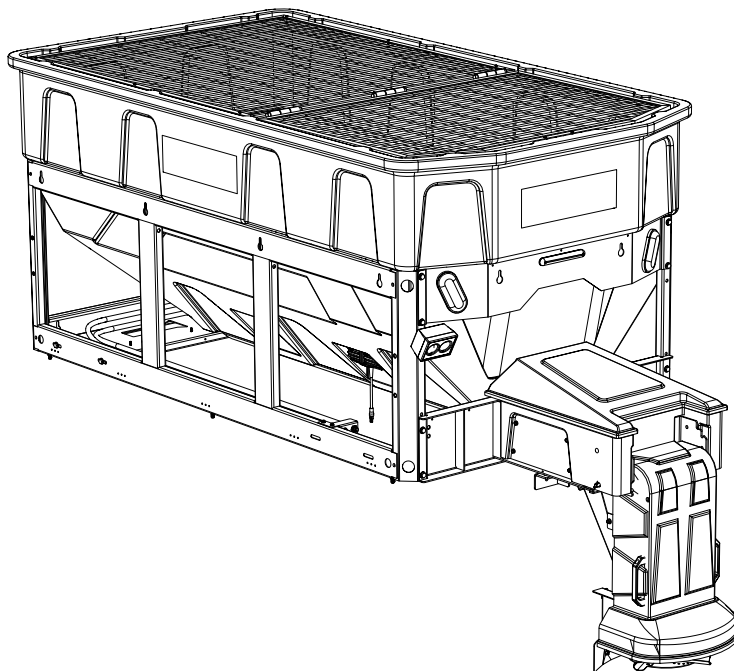
NO DEALER HAS AUTHORITY TO MAKE ANY REPRESENTATION OR PROMISE ON BEHALF OF SNOWEX, OR TO ALTER OR MODIFY THE TERMS OR LIMITATIONS OF THIS WARRANTY IN ANY WAY.

Spreader Views

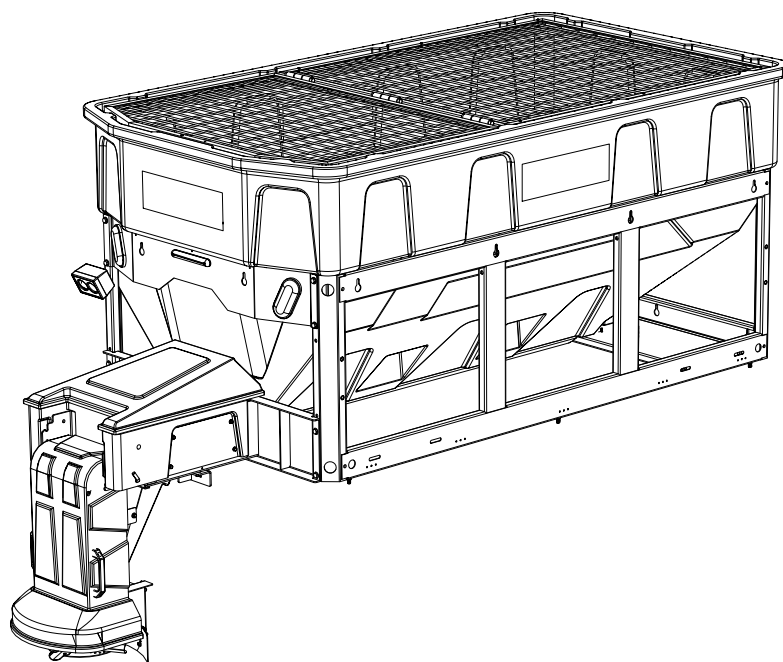
Model # SP-9800XH



Driver's Side



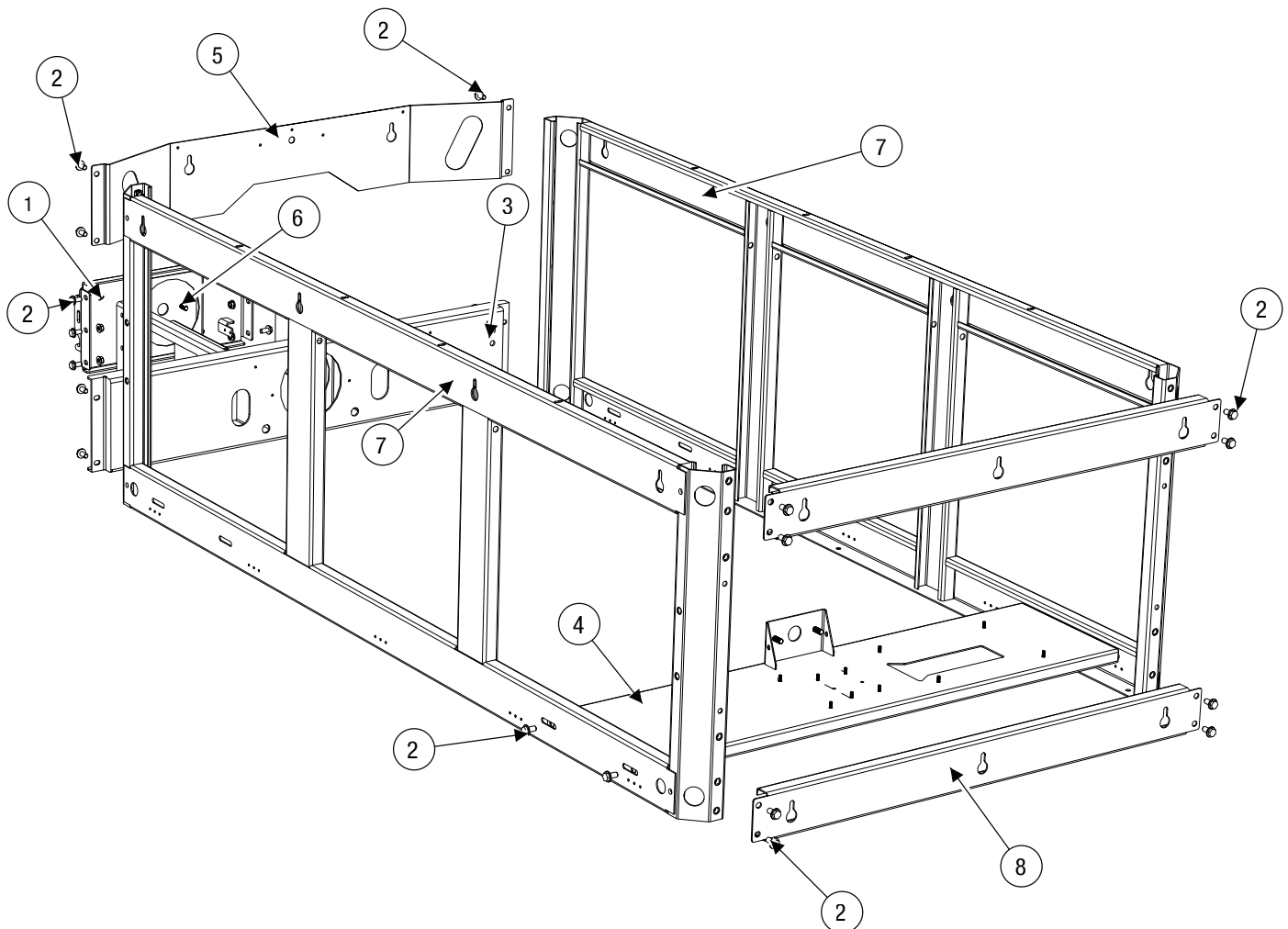
Passenger's Side



Frame Assembly Parts Breakdown



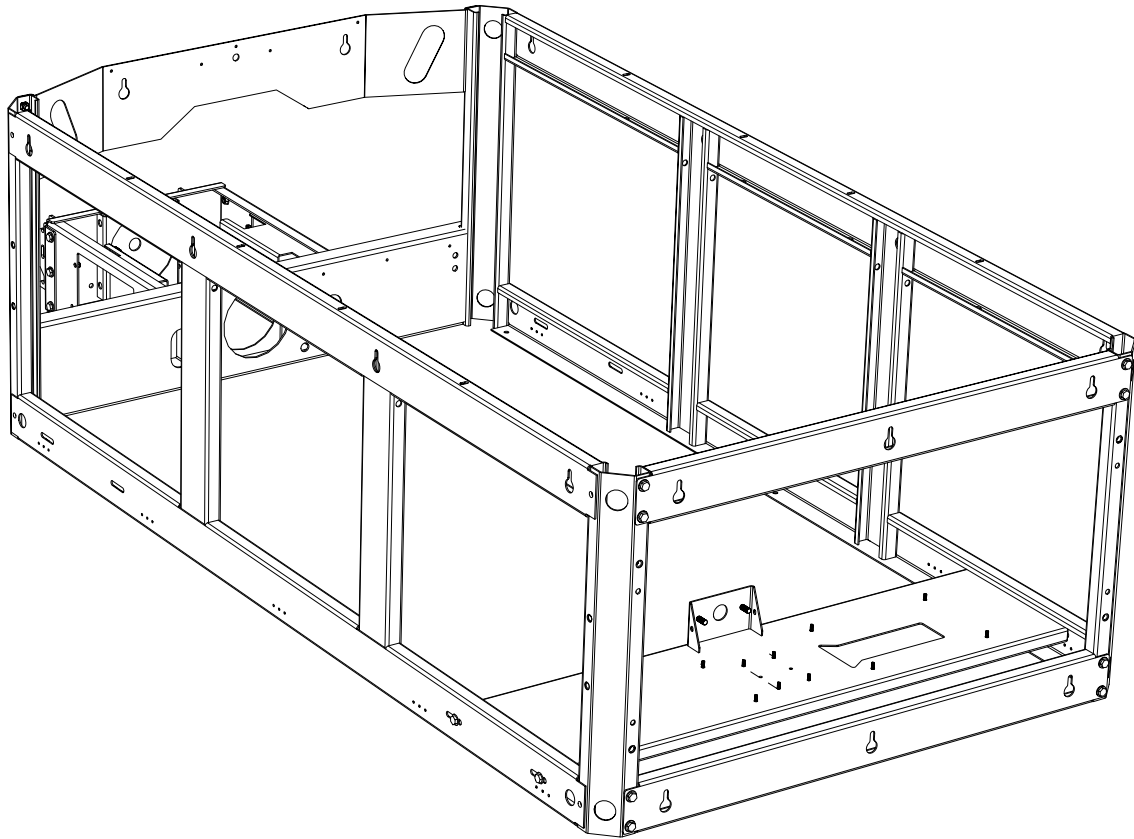
Model # SP-9800XH



Frame Assembly Parts Breakdown



Model # SP-9800XH

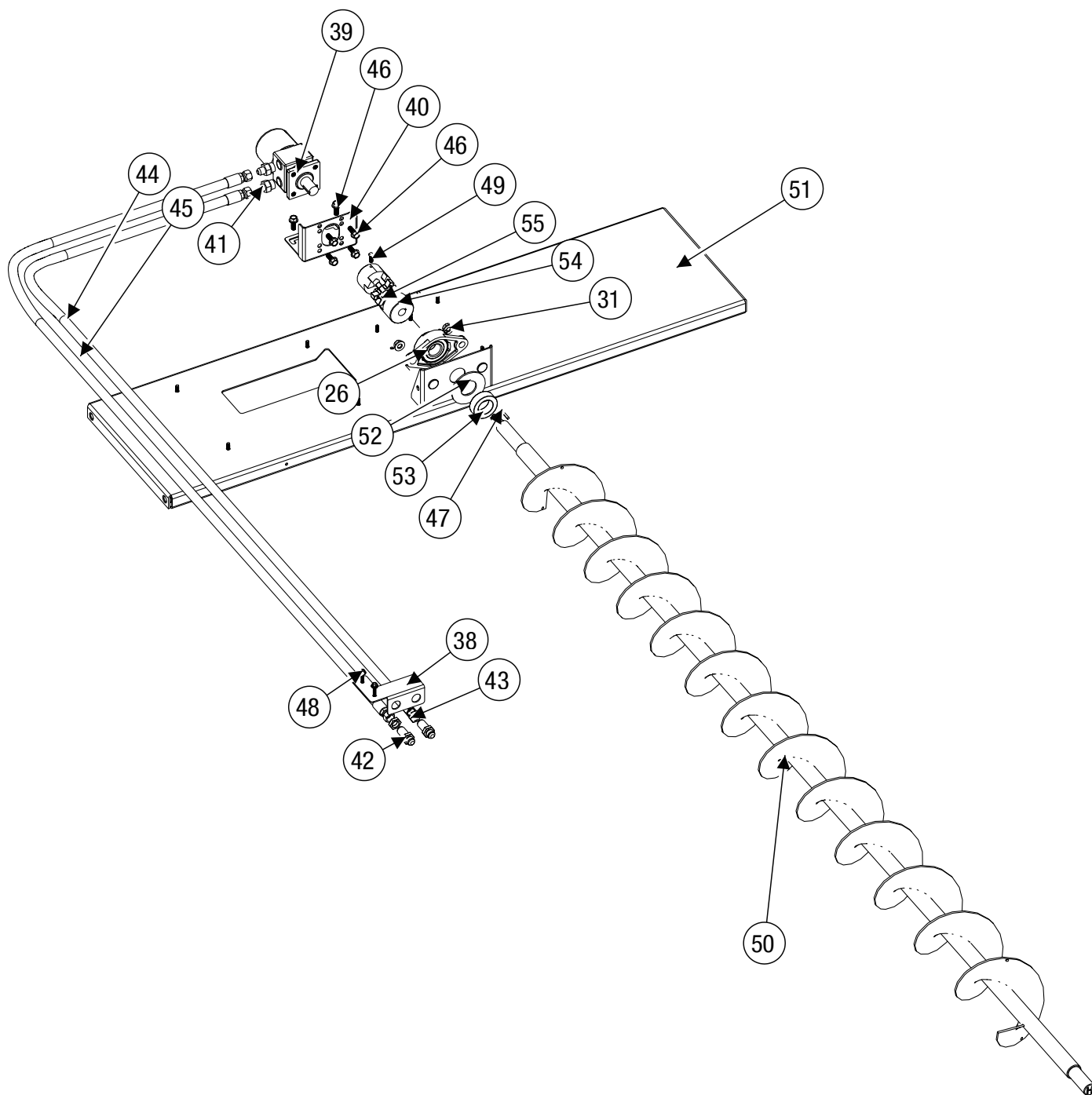


BOM ID	Description	Description	Qty.
1	D5535	Nut 1/2"-13 Serrated Flange Zinc	6
2	D6528	Bolt 1/2"-13 X 1" Serrated Hex Zinc	26
3	F50372	Rear Extension Weldment 9800	1
4	F50374	Auger Drive Mounting Plate 9800 Series	1
5	F50391	Rear Apron 9800 Series	1
6	F50393	Spinner Drive Mount Assembly	1
7	F50395	Side Frame 9800 Series	2
8	F50398	Front Facia 9800 Series	2

Auger Drive Assembly Parts Breakdown



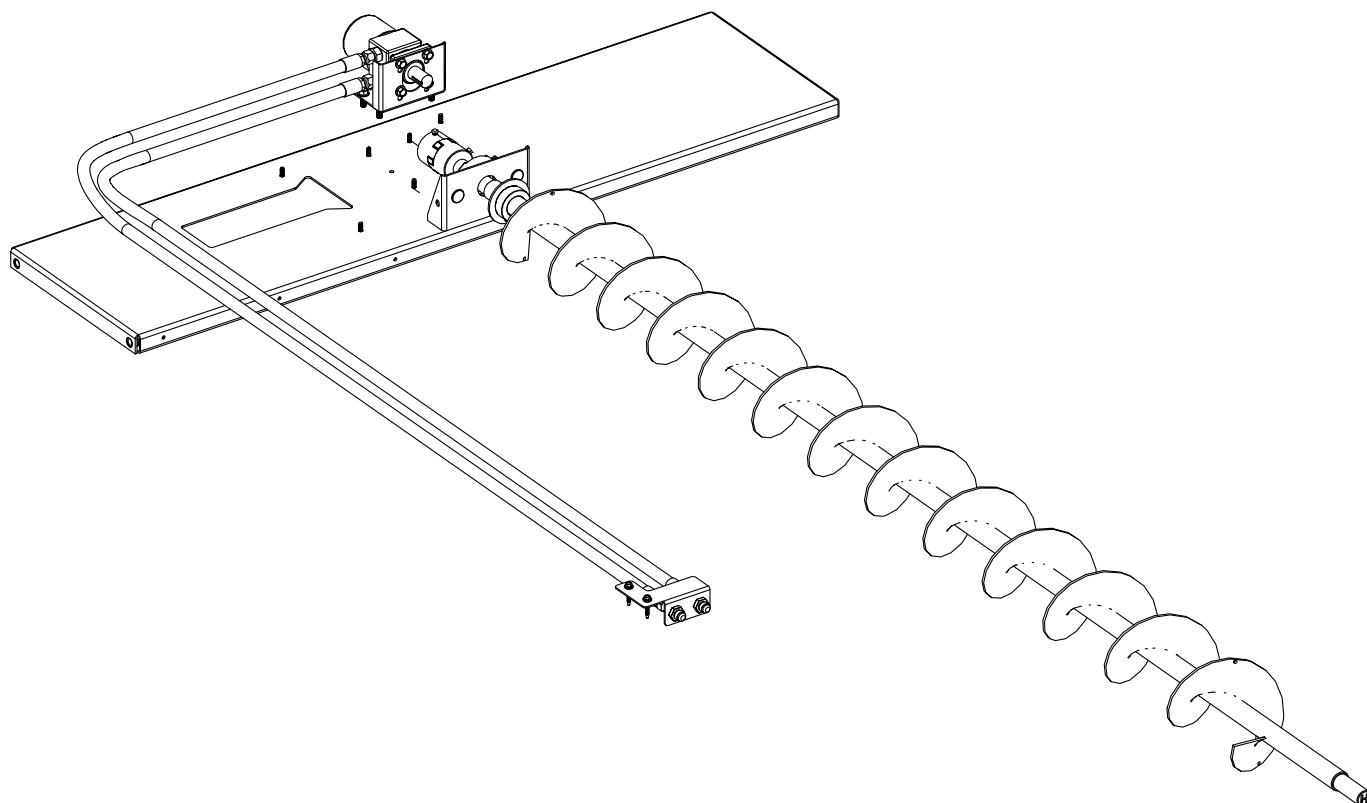
Model # SP-9800XH



Auger Drive Assembly Parts Breakdown



Model # SP-9800XH



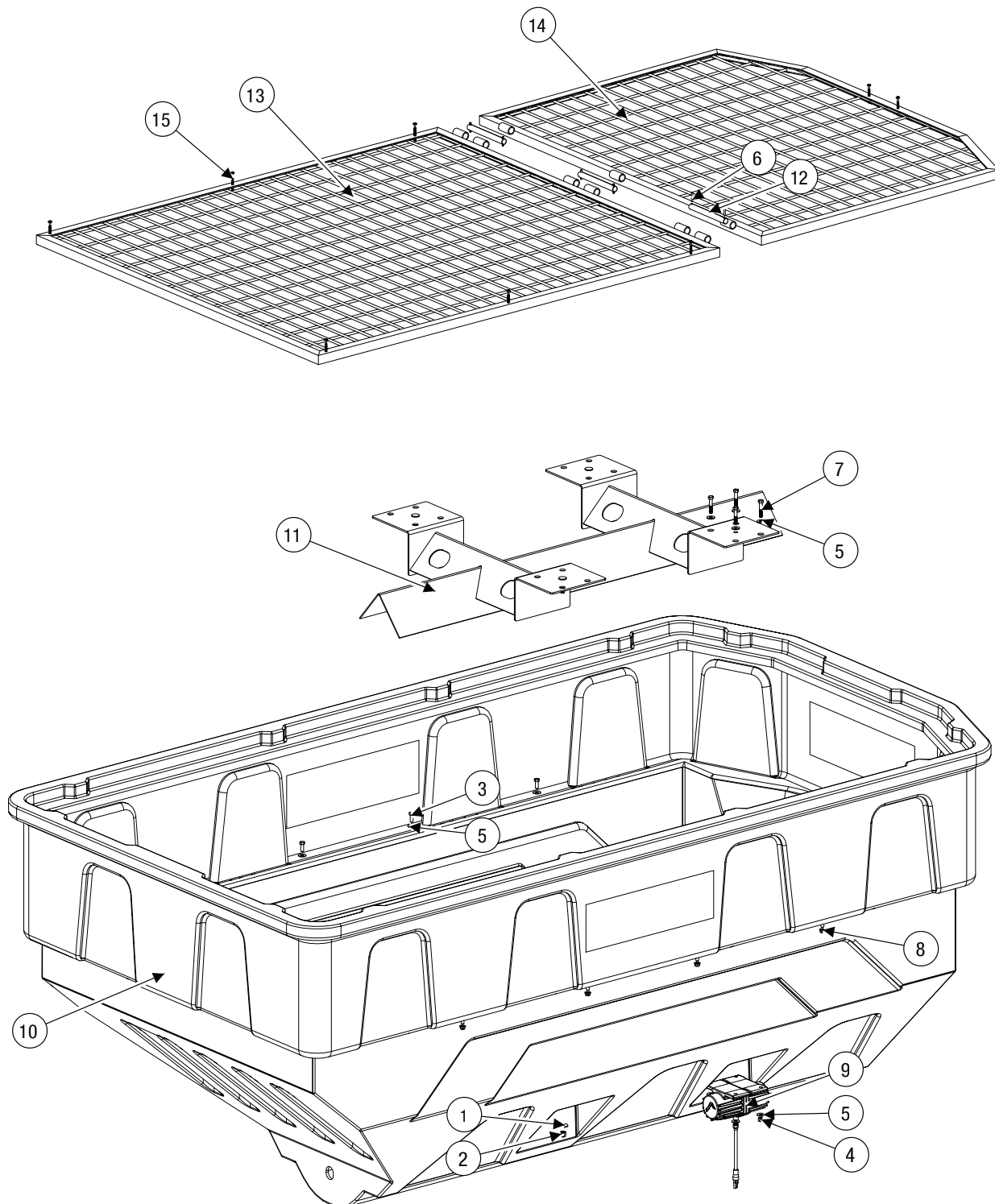
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31	D5535	2
38	D5759	1
39	D5760	1
40	D5761	1
41	D5767	2
42	D5768	2
43	D5769	2
44	D5779	1
45	D5779-1	1
46	D6452	8

BOM ID	Description	Qty
47	D6873	1
48	D6874	2
49	D7162	2
50	F50247	1
51	F50374	1
52	F50509	1
53	F50510	1
54	F50513	2
55	F50514	1

Hopper Assembly Parts Breakdown



Model # SP-9800XH

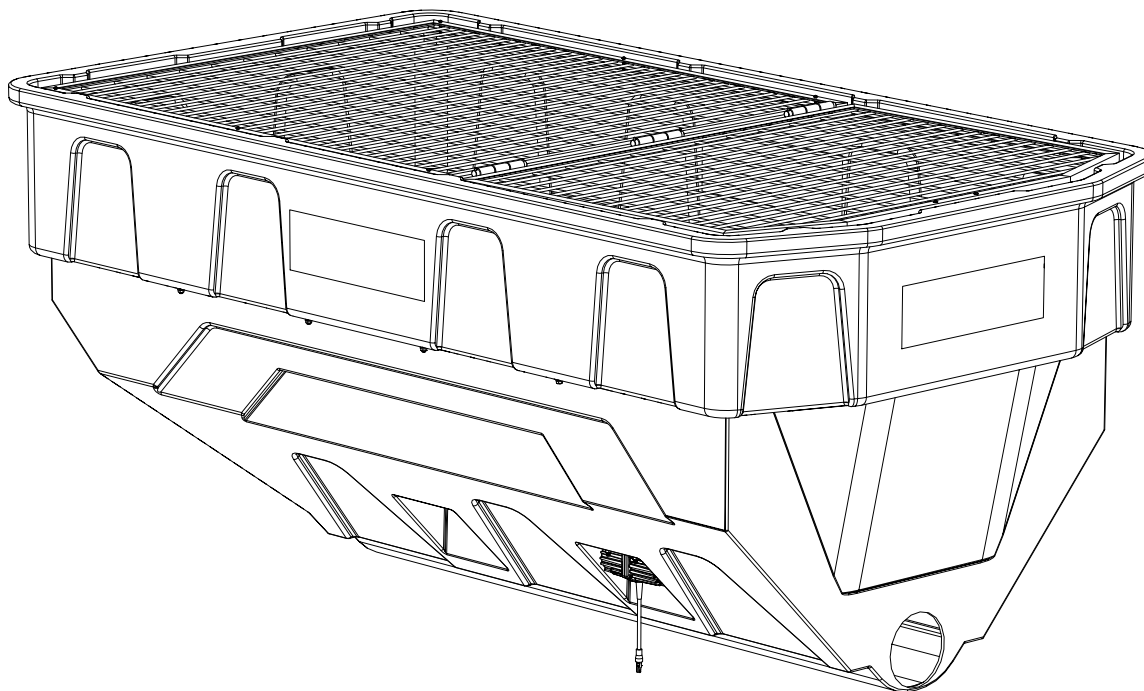


Hopper Cover...Part No. F50471

Hopper Assembly Parts Breakdown



Model # SP-9800XH

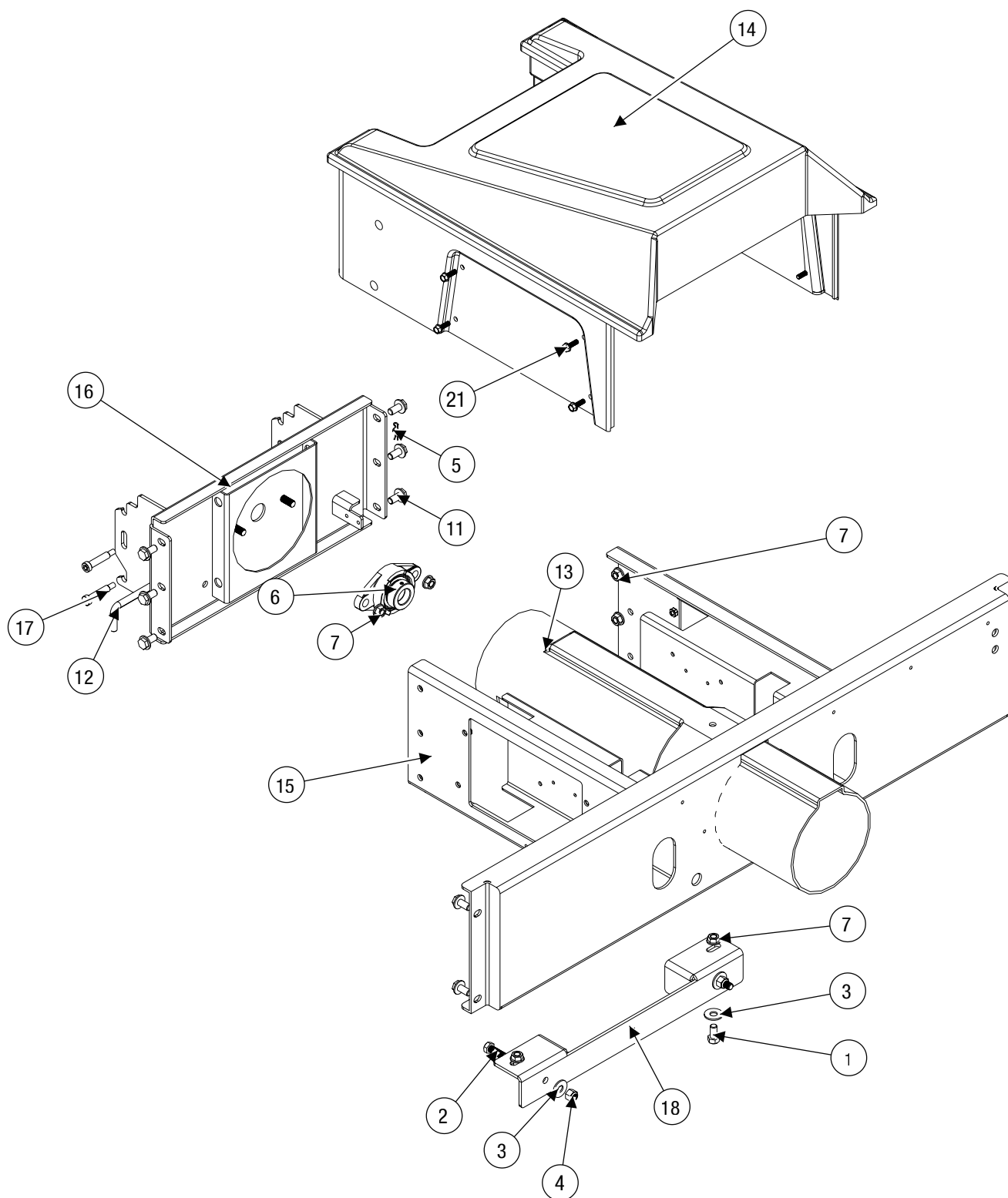


BOM ID	Description	Description	Qty.
1	D4119	Washer 1/2" Flat USS Zinc	3
2	D4120	Nut 1/2"-13 Nylox Zinc	3
3	D4121	Bolt 3/8"-16 X 1" Hex Head Zinc	8
4	D4124	Nut 3/8"-16 Nylox Zinc	4
5	D4125	Washer 3/8" Flat USS Zinc	16
6	D5921	Spring Pin 3/16" X 1-1/4" Zinc	6
7	D6160	Bolt 3/8"-16 X 2" Hex Head Zinc	4
8	D6584	Nut 3/8"-16 Serrated Flange Zinc	8
9	D6899	Vibrator DC 400	1
10	F50298	Hopper 6.0 Cu. Yd. Yellow	1
11	F50375	Inverted V 9800 Series	1
12	F50400	Screen Pin 9800 Series	3
13	F50401	Top Screen 58.5" X 66" Front	1
14	F50402	Top Screen 58.5" X 44.5" Rear	1
15	F50572	Screw 1/4"-20 X 2" Hex Head	8

Auger Extension Assembly Parts Breakdown



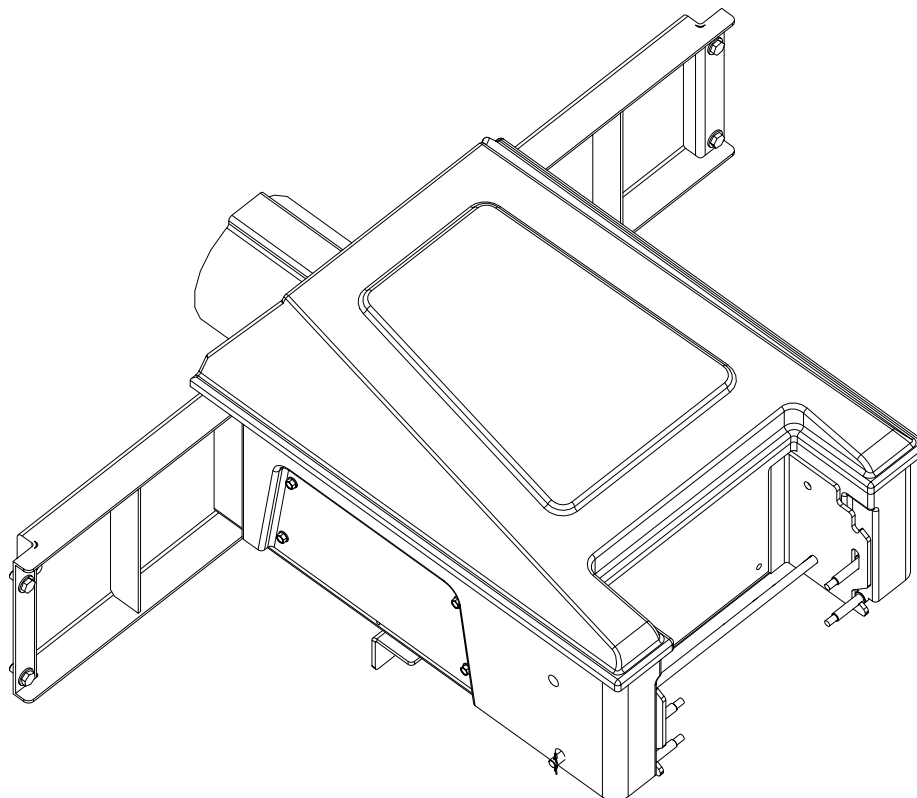
Model # SP-9800XH



Auger Extension Assembly Parts Breakdown



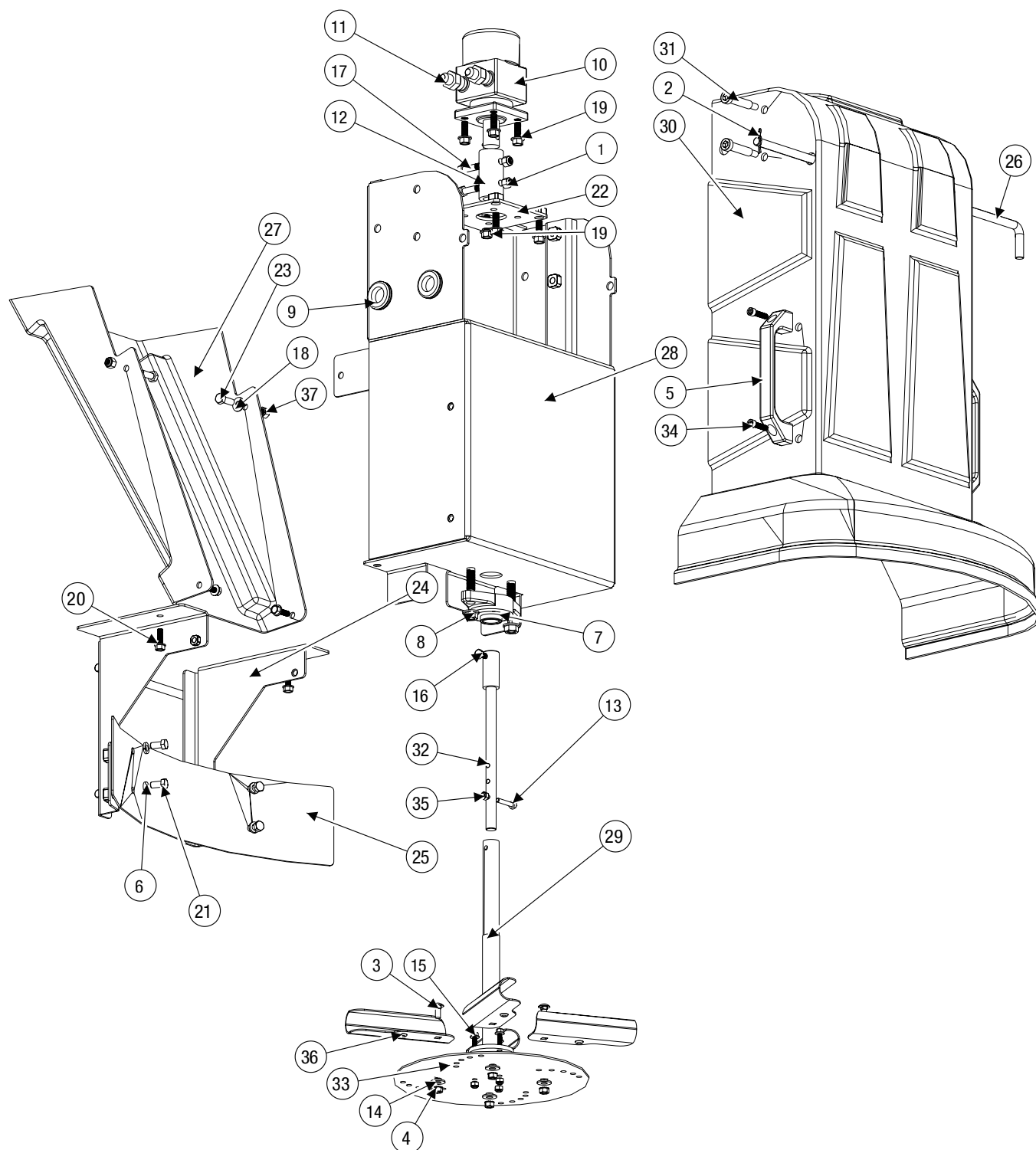
Model # SP-9800XH



BOM ID	Description	Qty
1	D4115	2
2	D4116	2
3	D4119	4
4	D4120	2
5	D4135	1
6	D5382	1
7	D5535	10
11	D6528	10
12	F50366	1
13	F50367	1
14	F50368	1
15	F50372	1
16	F50393	1
17	F50407	4
18	F50465	1
21	F50587	8

Drive Assembly Parts Breakdown

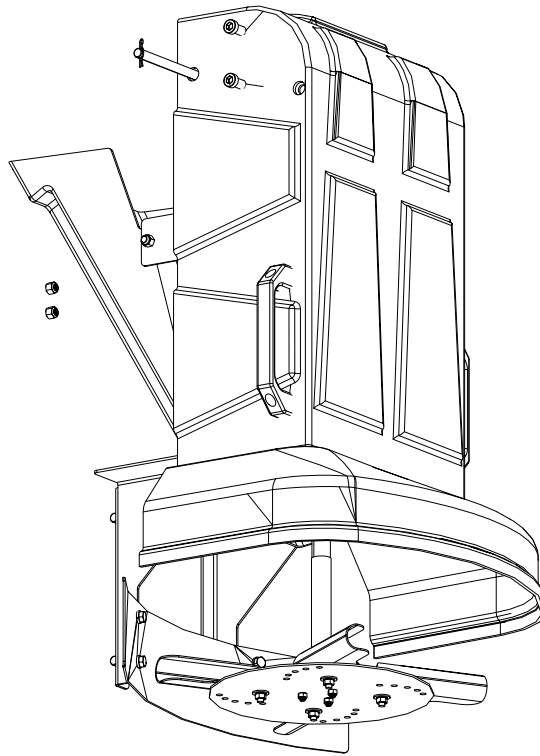
Model # SP-9800XH



Drive Assembly Parts Breakdown



Model # SP-9800XH



BOM ID	Description	Qty
1	D4124	2
2	D4135	1
3	D5022	4
4	D5023	4
5	D5248	2
6	D5336	4
7	D5527	1
8	D5535	2
9	D5602	2
10	D5755	1
11	D5767	2
12	D5784	1
13	D5907	1
14	D5949	4
15	D6132	3
16	D6133	1
17	D6160	2
18	D6169	2
19	D6452	8

BOM ID	Description	Qty
20	D6453	4
21	D6978	4
22	F50018	1
23	F50110	2
24	F50316	1
25	F50318	1
26	F50366	1
27	F50371	1
28	F50376	1
29	F50394	1
30	F50405	1
31	F50407	4
32	F50441	1
33	F50517	1
34	F50711	4
35	T15016	4
36	T30207	4
37	T30728	2

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

[illegible]

