

This Manual Must Be Read Before Operating The Equipment

Owner / Operator's Manual



FOR MODEL:

SP-9500X Serial # M2-100000 and higher



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

Customer Copy

Table of Contents



General Information	3
Introduction	4
Safety	5
Warning Decal Positions.....	6-7
Operating the Spreader.....	8-11
Spreader Maintenance	12
Wiring Instructions	13
Control and Harness Diagram	14-19
Mounting Instructions	20-21
Troubleshooting	22-23
Warranty	24
Spreader Views	
Model # SP-9500X.....	25
Frame Assembly Parts Breakdown	
Model # SP-9500X.....	26-27
Auger Drive Assembly Parts Breakdown	
Model # SP-9500X.....	28-29
Hopper Assembly Parts Breakdown	
Model # SP-9500X.....	30-31
Auger Extension Assembly Parts Breakdown	
Model # SP-9500X.....	32-33
Drive Assembly Parts Breakdown	
Model # SP-9500X.....	34-35
Notes	36-37

Have a question or need assistance?

SnowEx Customer Care

(800) 725-8377

or (248) 586-3500

Monday through Friday 8:00 AM to 4:30 PM EST

Fax: (248) 691-8378

E-Mail: customercare@trynexfactory.com

Website: www.snowexproducts.com



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 12-volt motor coupled to a custom engineered transmission; 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.

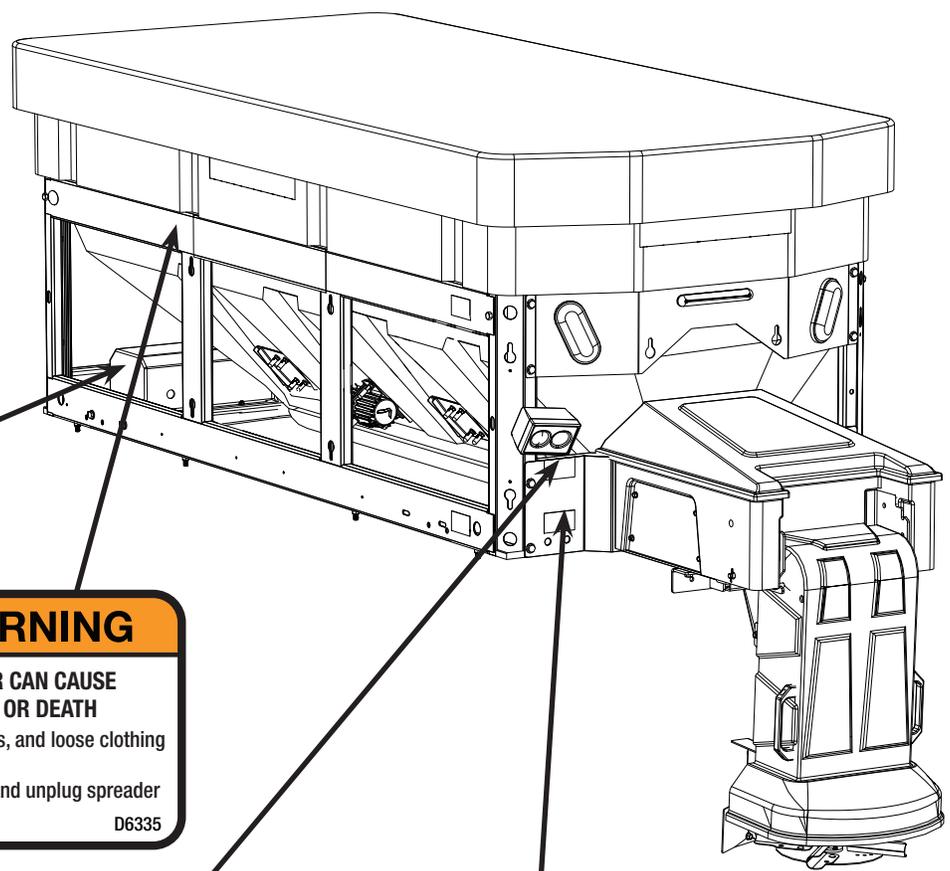


Never use wet materials or materials with foreign debris with any of these spreaders. These units are designed to handle dry, clean, free flowing material.

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-9500X



⚠ WARNING

- Keep hands, feet & loose clothing away from moving parts.
- Disconnect power before servicing equipment.

D6192

⚠ WARNING



ROTATING AUGER CAN CAUSE SERIOUS INJURY OR DEATH

- Keep arms, hands, and loose clothing away from auger.
- Shut off control and unplug spreader before servicing.

D6335

⚠ DANGER

- DO NOT REMOVE SPREADER WITH MATERIAL IN HOPPER
- FASTEN SPREADER DOWN WITH APPROVED RATCHET STRAPS AND BOLT KIT
- REAR FRAME LOCATOR BARS MUST BE IN PLACE BEFORE OPERATING VEHICLE

D6547

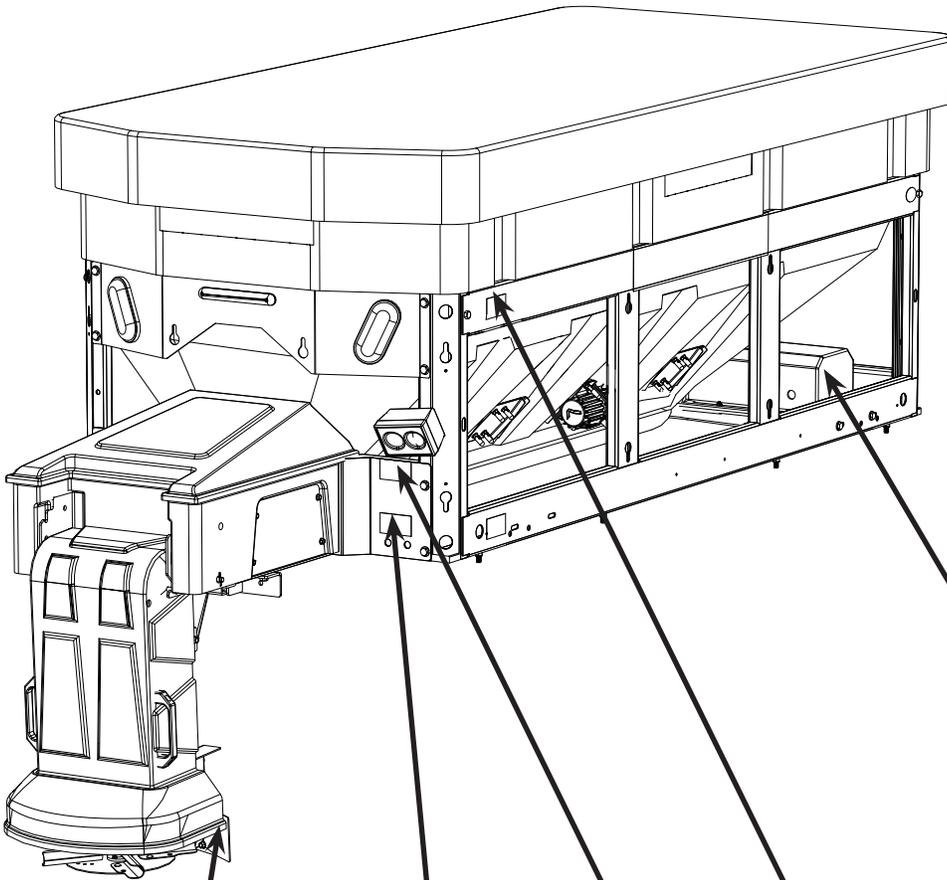
⚠ WARNING

- Read Owner's Manual for Installation Instructions.
- Secure spreader to truck with ratchet straps.
- Anchor spreader securely to truck body with bolt kit provided to prevent slipping or sliding.
- Routinely check straps and hardware to make sure they are secure.

D6548

Warning Decal Positions

Model # SP-9500X



⚠ WARNING

- Read owners manual before operating equipment.
- Never remove spreader with material in hopper.

D6194

⚠ WARNING

ROTATING PARTS CAN CAUSE SERIOUS INJURY OR DEATH

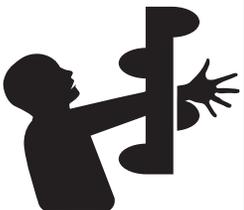
- ALWAYS DISCONNECT POWER WHEN NOT IN USE

ROTATING PARTS CAN CAUSE SERIOUS INJURY OR DEATH

- ALWAYS DISCONNECT POWER WHEN NOT IN USE

⚠ WARNING

⚠ WARNING



ROTATING AUGER CAN CAUSE SERIOUS INJURY OR DEATH

- Keep arms, hands, and loose clothing away from auger.
- Shut off control and unplug spreader before servicing.

D6335

⚠ WARNING




- DO NOT EXCEED GVWR OF VEHICLE
- DO NOT OVERLOAD SPREADER
- LOAD SPREADER EVENLY

D6546

⚠ DANGER

- DO NOT REMOVE SPREADER WITH MATERIAL IN HOPPER
- FASTEN SPREADER DOWN WITH APPROVED RATCHET STRAPS AND BOLT KIT
- REAR FRAME LOCATOR BARS MUST BE IN PLACE BEFORE OPERATING VEHICLE

D6547

Operating the Spreader

Model # SP-9500X

SPREADER LOADING

WARNING – Do not overload vehicle. Use chart below to calculate weight of material. Weights of material are an average for dry materials.

<u>Material</u>	<u>Weight Per Cubic Ft.</u>
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.

SPREADER OPERATION

- The Dual Variable Speed Controller has dual finger-tip dials for maximum performance, digital system status with warning protection and built-in Vibrator Switch.
- To start, press power switch on controller and spreader will accelerate to speed set on spinner and auger dials.
- To stop, press power on controller to off position.
- Speed of Auger and Spinner may be adjusted separately to get desired flow and spread distance
- The Vibrator Switch is needed for dense material or to increase the flow to the Auger. This eliminates bridging of material in hopper.
- It is important that the Inverted Vee not be removed except when servicing.
- If there are any problems while operating the spreader, refer to Troubleshooting Guide.

SPREADING TIPS

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

Operating the Spreader (continued)

Model # SP-9500X

WARNING PROTECTION

- If audible beeping occurs, read display to identify problem. If display reads “OL” (overload) or “OH” (overheat), shut the controller down and carefully clear jammed auger. If display reads “E1” this means there is a dead short in the system. Do not use until problem is corrected. If the display reads “E0” this means the motor is not getting any power. Check all connections. If the display reads “LB” the vehicle battery is extremely low (possibly caused by a poor or corroded connection) and could damage the system.
- If there are any problems while operating the spreader, refer to Troubleshooting Guide.

AUTO-REVERSE “AR” FUNCTION

- If your controller displays “OL” this could indicate a jammed auger.
- To engage the Auto-Reverse “AR” Function:
 - Step 1: Shut the Main Power Switch OFF for 3 seconds.
 - Step 2: Turn the Main Power Switch ON. When the machine starts back up, the “AR” sequence will automatically start and the auger will reverse for several rotations to clear the jam.
- After a pause of several moments, the auger will automatically return to correct rotation. If the jam is still not cleared, the controller will again display “OL.”
- You may repeat Steps 1 and 2 for a second and third time.
- If after the third try the controller displays “OL,” you must extract the material that is causing the problem.
- Follow all warning directions when clearing jams.

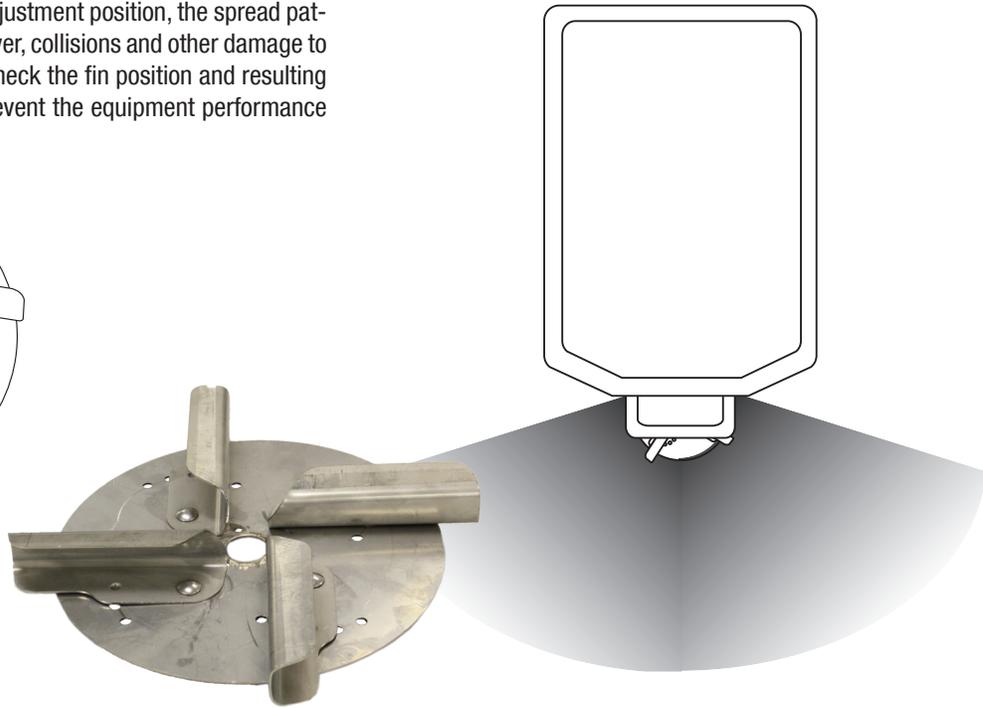
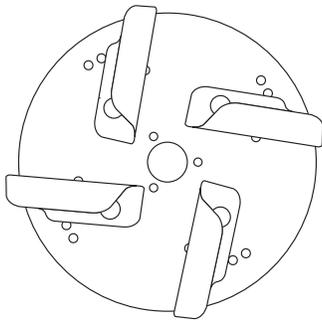
Operating the Spreader (continued)

Model # SP-9500X

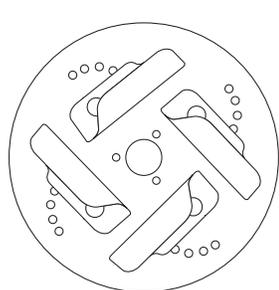
ADJUSTABLE SPINNER INSTRUCTIONS

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.

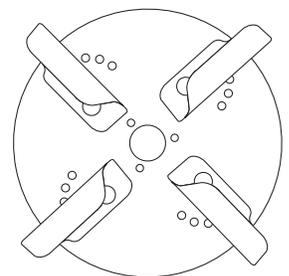
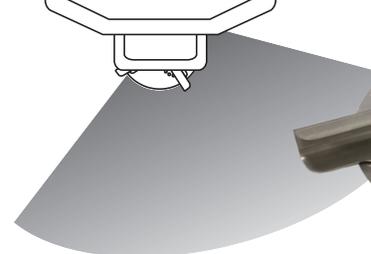
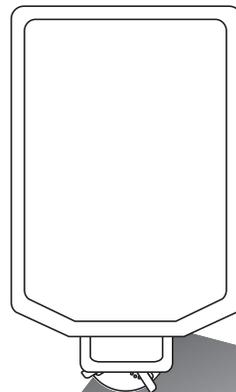
When the fins are in their center adjustment position, the spread pattern will be mostly centered. However, collisions and other damage to the equipment may change this. Check the fin position and resulting spread pattern often enough to prevent the equipment performance from being adversely affected.



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.



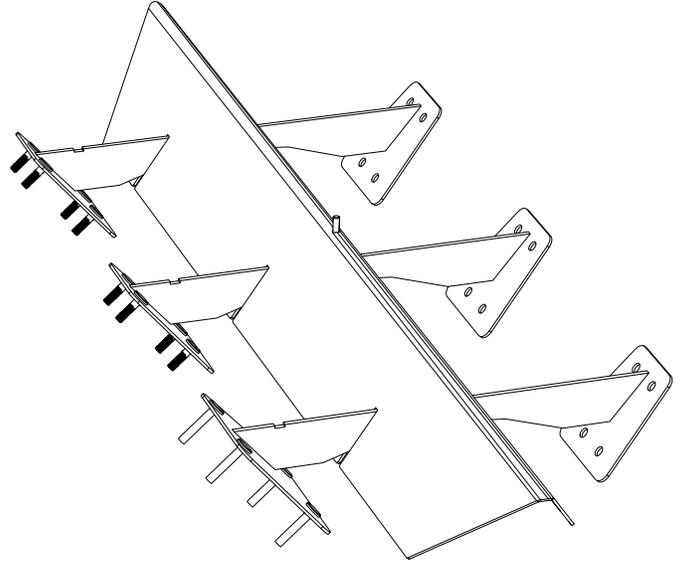
Operating Spreader (continued)

Model # SP-9500X

INVERTED-V INSTRUCTIONS

- The Super-Maxx 9500 uses an “Inverted V” Baffle design over the auger area. This baffle reduces the load on the auger. The inverted V should not be removed unless servicing the unit.
- **WARNING:** Always disconnect power source before attempting to remove material baffle.

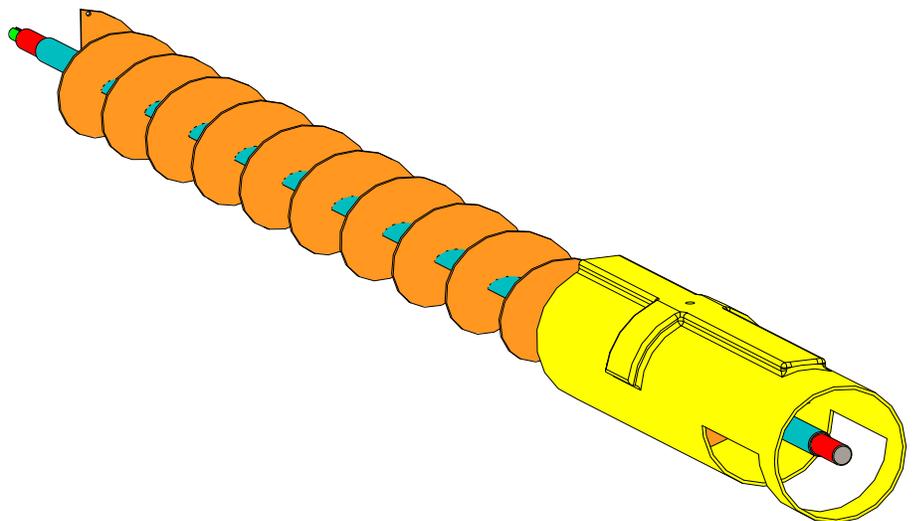
Inverted V Assembly



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



Spreader Maintenance

Model # SP-9500X

- **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.
- **WARNING:** Never remove spreader with material in hopper.
- **WARNING:** Disconnect electricity to spreader before servicing.
- **CAUTION:** – When replacing parts use only original manufacturer's parts. Failure to do so will void warranty.
- **CAUTION:** – The controller is a solid state electronic unit and is not serviceable. Any attempt to service will void warranty.
- **CAUTION:** - There are no serviceable parts in the motor/transmission assembly. Any attempt to service will void warranty.
- **CAUTION:** - Spinner motor is not designed for continuous duty. Allow motor to cool between long cycle times.
- **CAUTION:** – When pressure washing motor enclosure area, stay at least 36” away from motor enclosures.
- **ATTENTION:** Store control in cool dry place during the off season.
- 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.
- **CAUTION** – Vibrator is not designed for continuous duty. Allow motor to cool between long cycle times.
- **CAUTION** – Do not modify vehicle or spreader wiring harness. Doing so will void product warranty.

Wiring Instructions

Model # SP-9500X

1. Mount rear plug bracket on back of vehicle using supplied bolts. Locate toward center of bumper as it will reduce the amount of tire-thrown debris that gets onto the plug.
2. Mount harness plug to rear plug bracket that was just installed. Apply a small amount of dielectric grease to plug.
3. Route wires from back to front using ty-wraps or clamps (not supplied). Do not secure to brake lines, fuel lines, or near exhaust, engine or moving parts. Use the heavy-duty ty-wraps along frame and the lighter duty ty-wraps everywhere else.
4. Drill a 7/8" hole in the firewall near steering column. Be sure to check for wires in the way (both sides of firewall) before drilling the hole. Run a communication wire into cab. Zip-tie wire under dash so it does not get in the way of brake or accelerator pedal. Leave enough of the communication wire outside of the dash so operator can hold control pendant in hand.
5. Route power wires over to battery. Install circuit breaker and connect to battery.
Remember: Red (+) to positive. Black (-) to negative.

Control Diagram

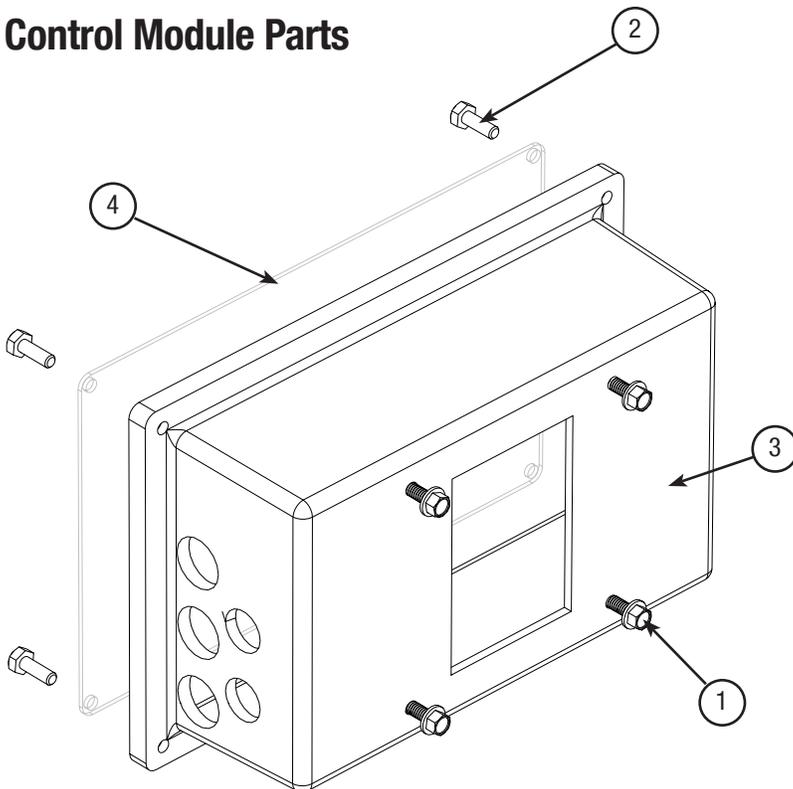
Model # SP-9500X

F50543 Control Pendant



IMPORTANT: In the off season remove control and put in a cool dry place. The interior summer temperatures could damage circuit board and void warranty.

Control Module Parts

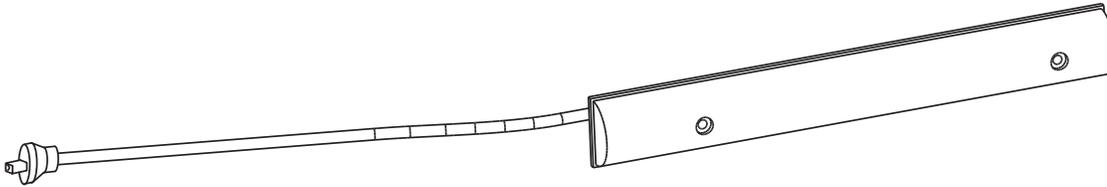


Key	Part No.	Description	Qty.
1	D6133	Bolt 5/16"-18 X 1/2" Hex	4
2	D6553	Screw #10 X 3/4"	4
3	F50488	Power Module Box	1
4	F50489	Power Module Box Cover	1

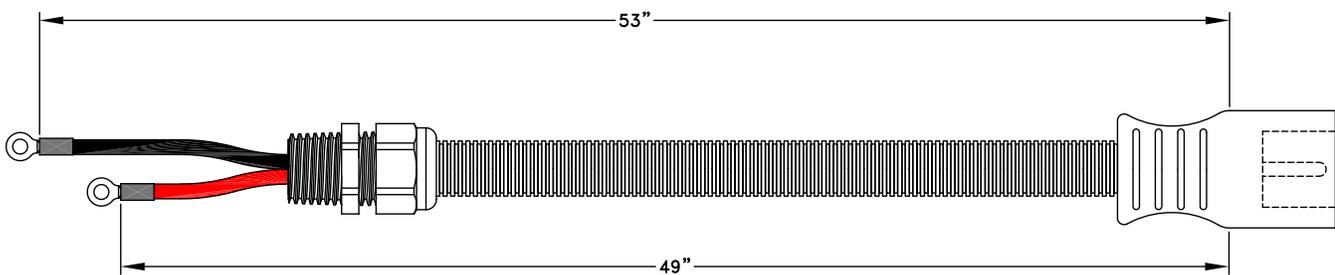
Harness Diagram

Model # SP-9500X

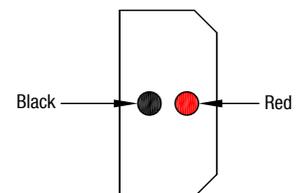
D6514 Center High Mount Stop Lamp



F50408 Spreader Harness



Load View



IMPORTANT: Do Not modify harness length. Any modifications will void warranty.

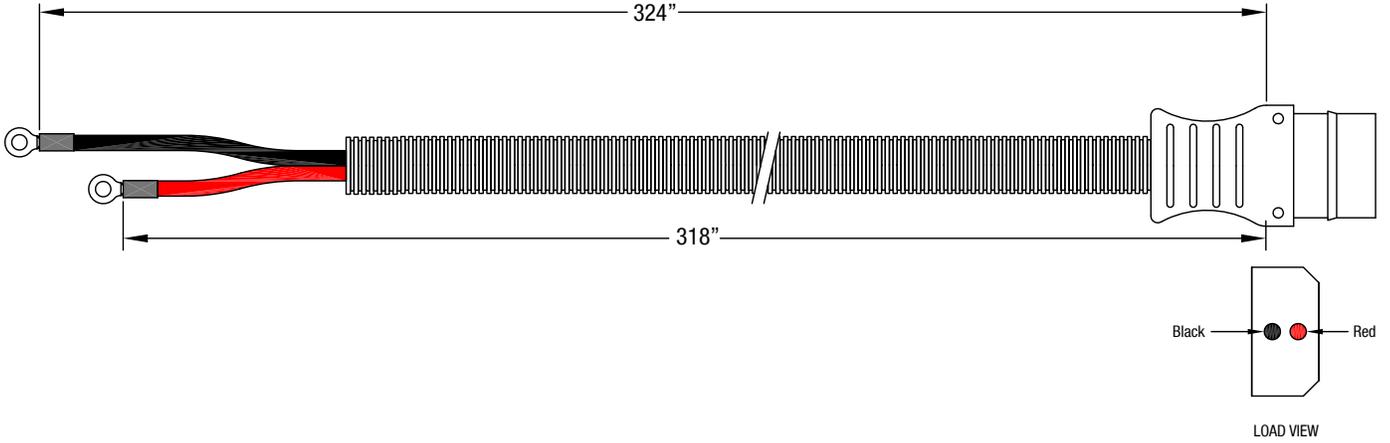
Special Notes:

- 1) All external connections must have dielectric grease.
- 2) Read lead labels before attaching to power source or ground.
- 3) No other devices may be spliced into wiring harness.
- 4) Any repairs to wiring harness must be done with heat shrink butt connectors.

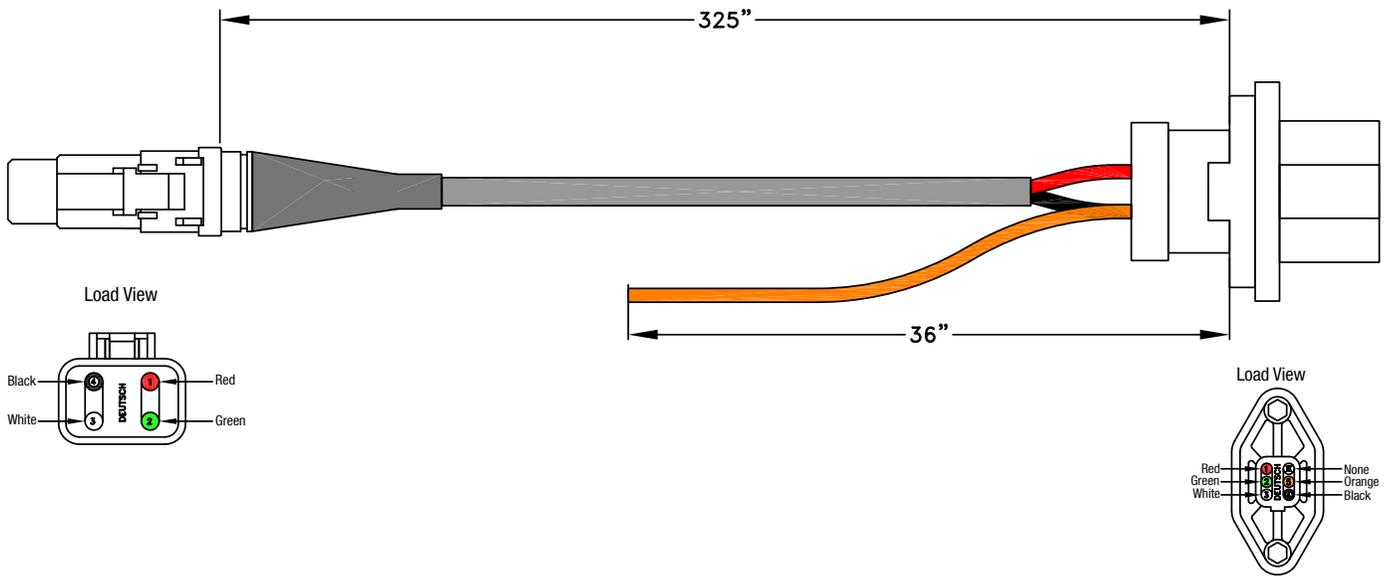
Harness Diagram

Model # SP-9500X

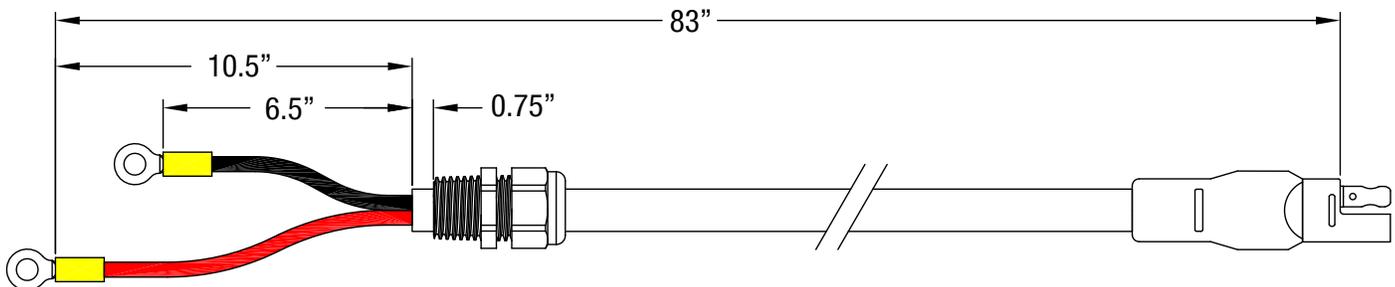
F50409 Vehicle Harness



F50534 Data Cable



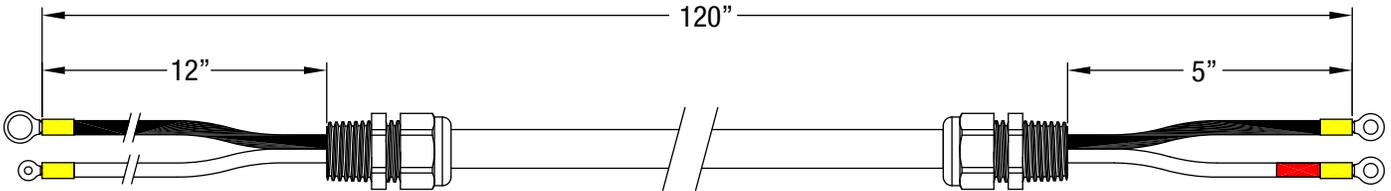
F50535 Vibrator Harness



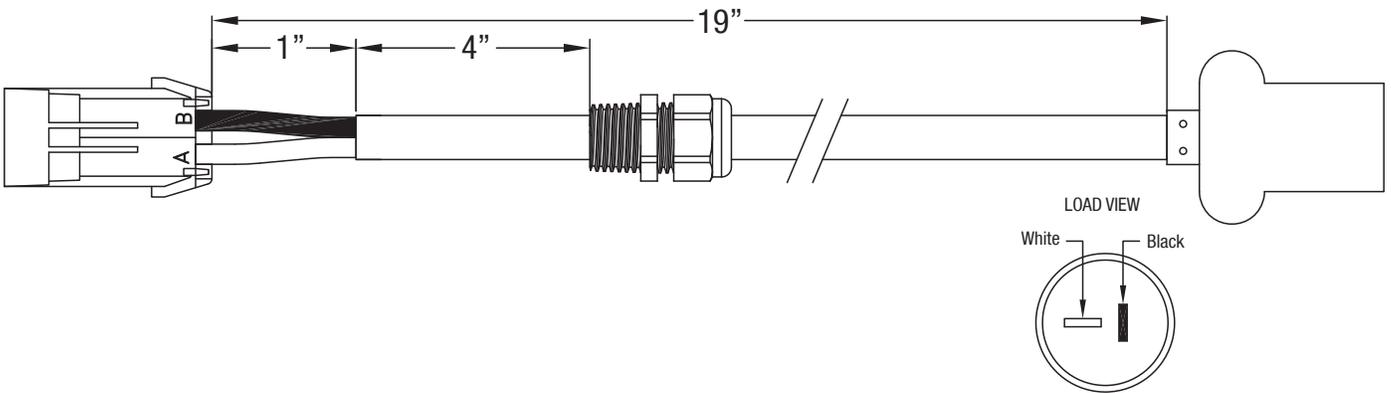
Harness Diagram

Model # SP-9500X

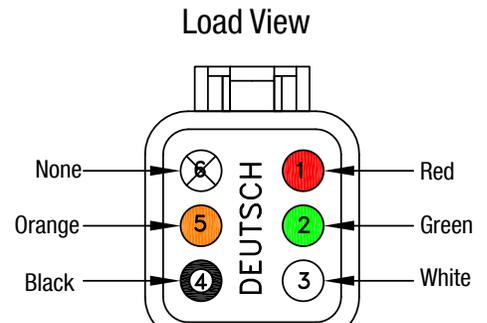
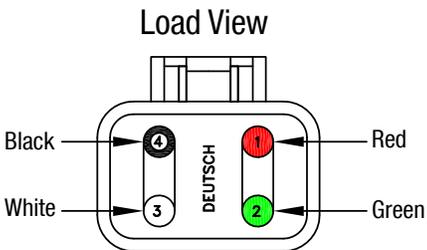
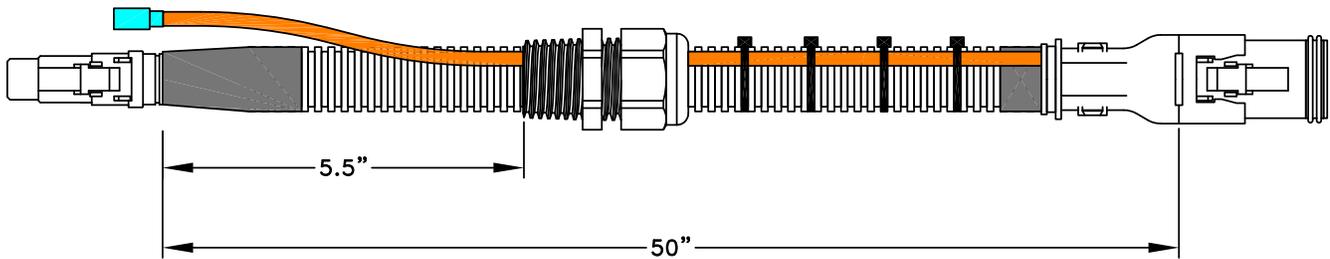
F50536 Auger Motor Harness



F50537 Spinner Motor Harness



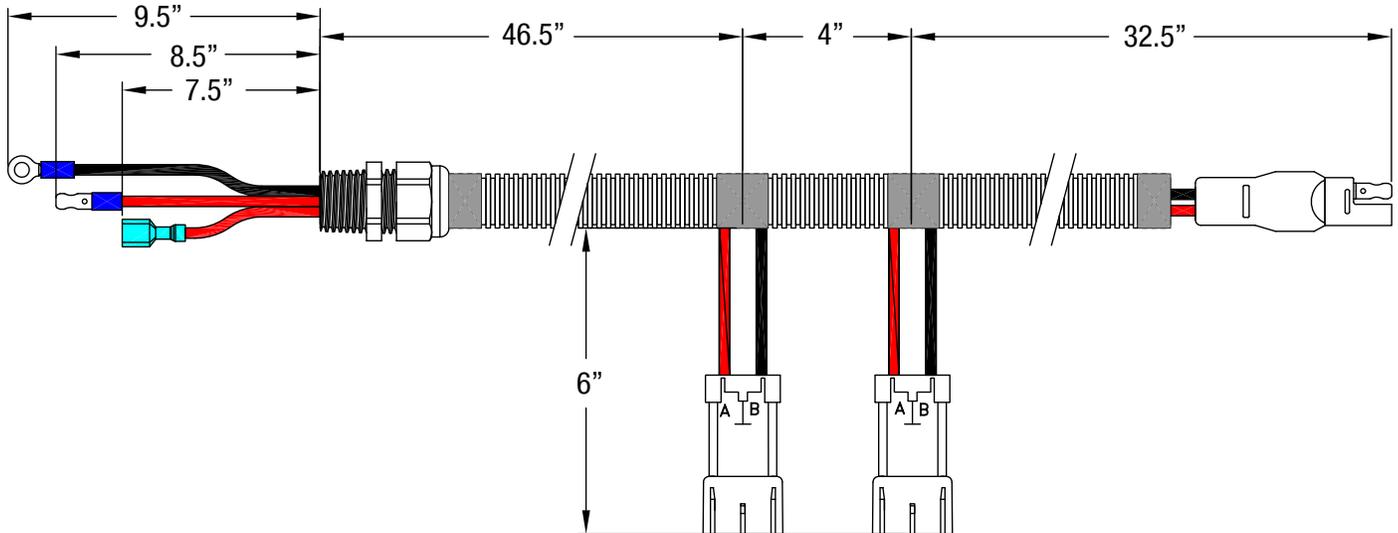
F50540 Data Cable



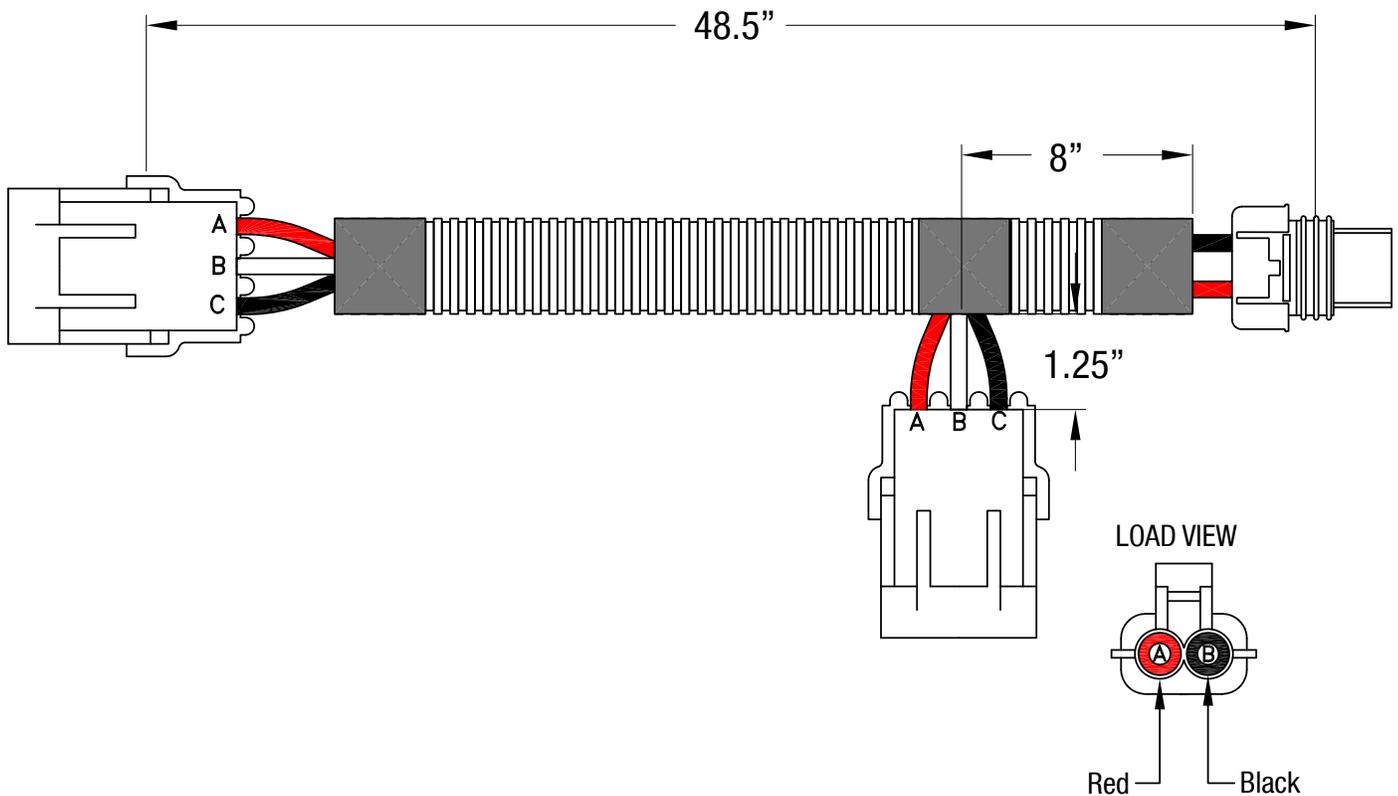
Harness Diagram

Model # SP-9500X

F50563 Light Harness

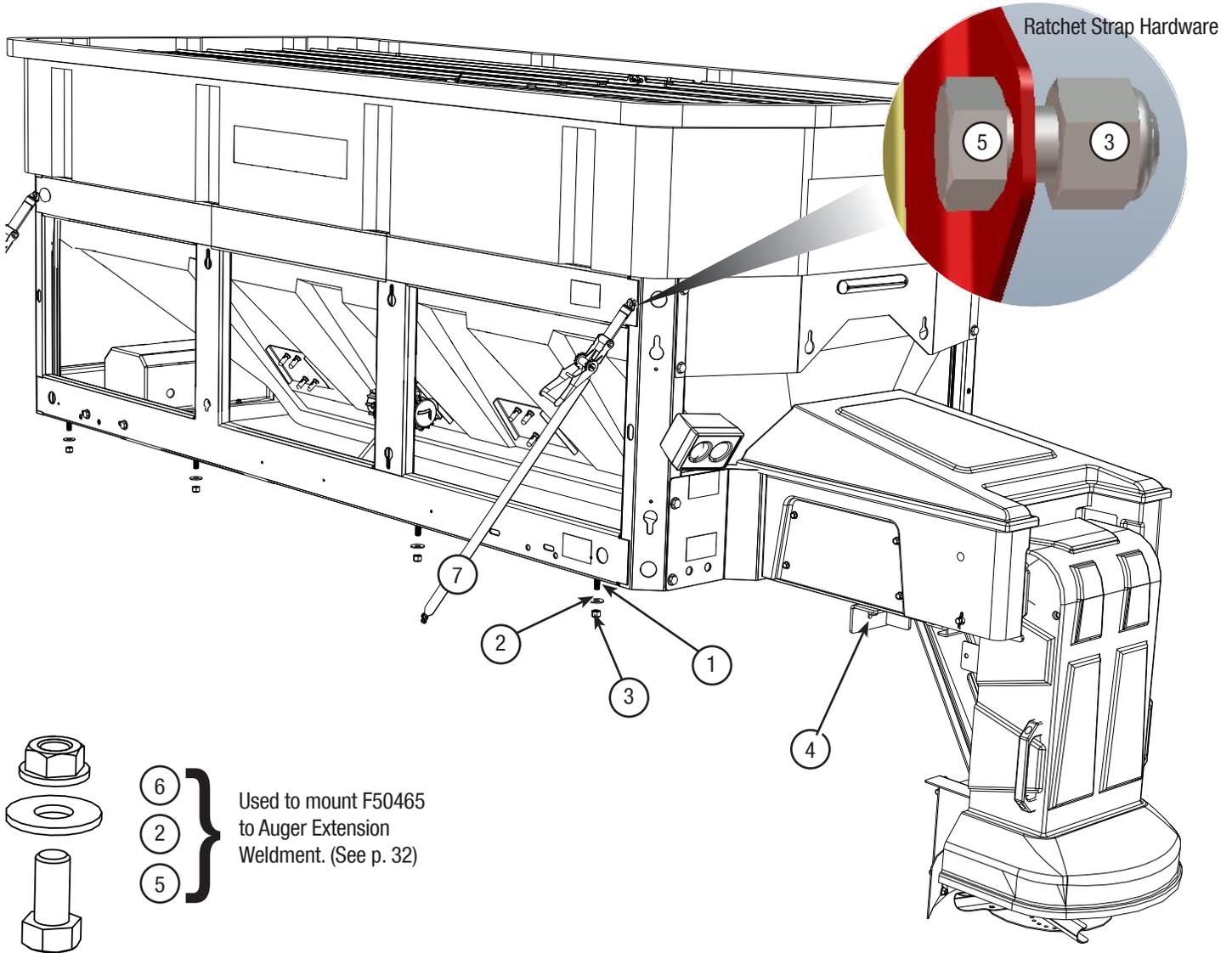


F50564 Strobe Light Harness



Mounting System Diagrams

Model # SP-9500X



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-9500X

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.

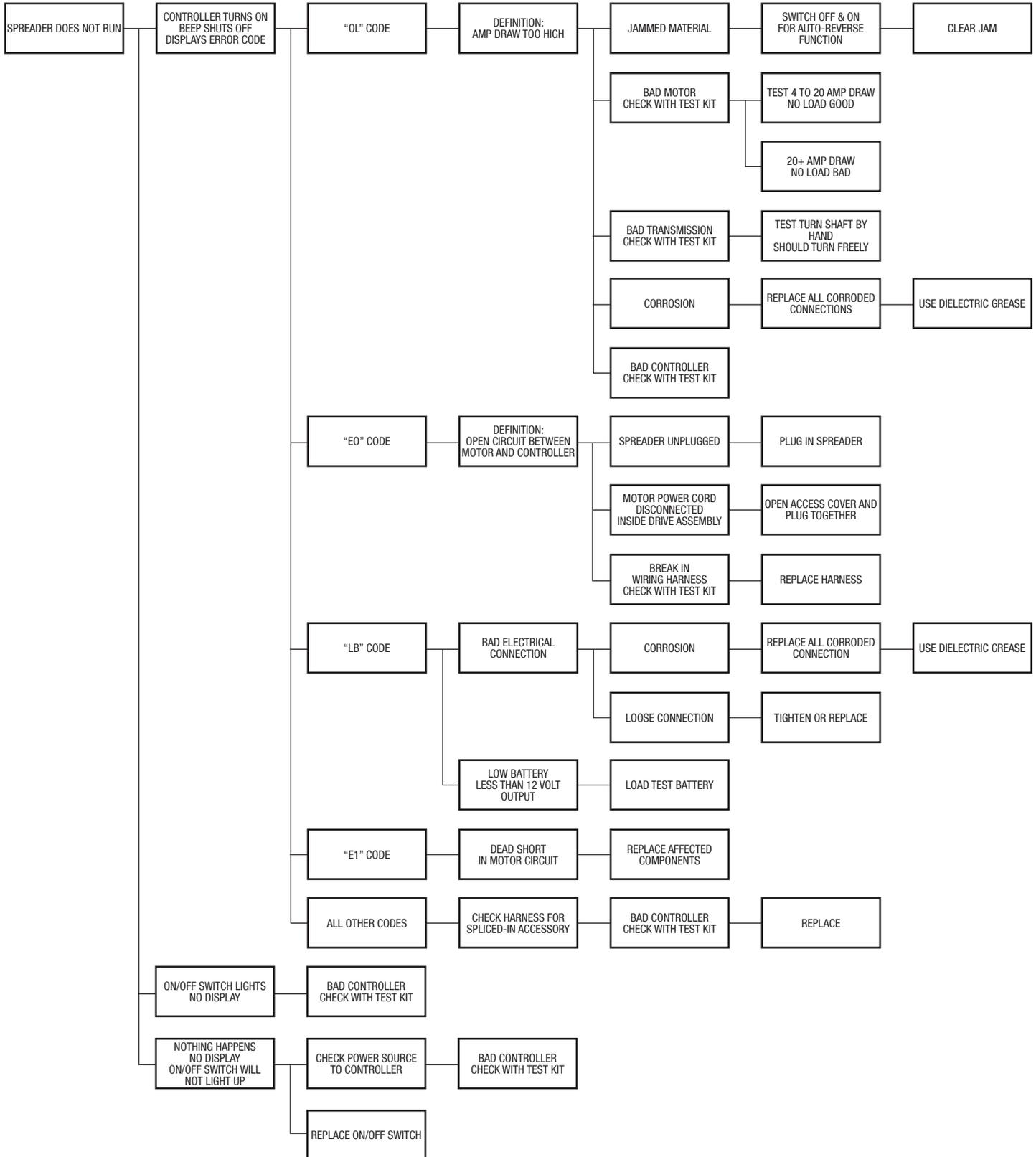
Step 9: Slide the spreader back into position over top of the holes just drilled. Install Bolt through spreader frame and truck body with Washer and Nut below. Tighten all fasteners.

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

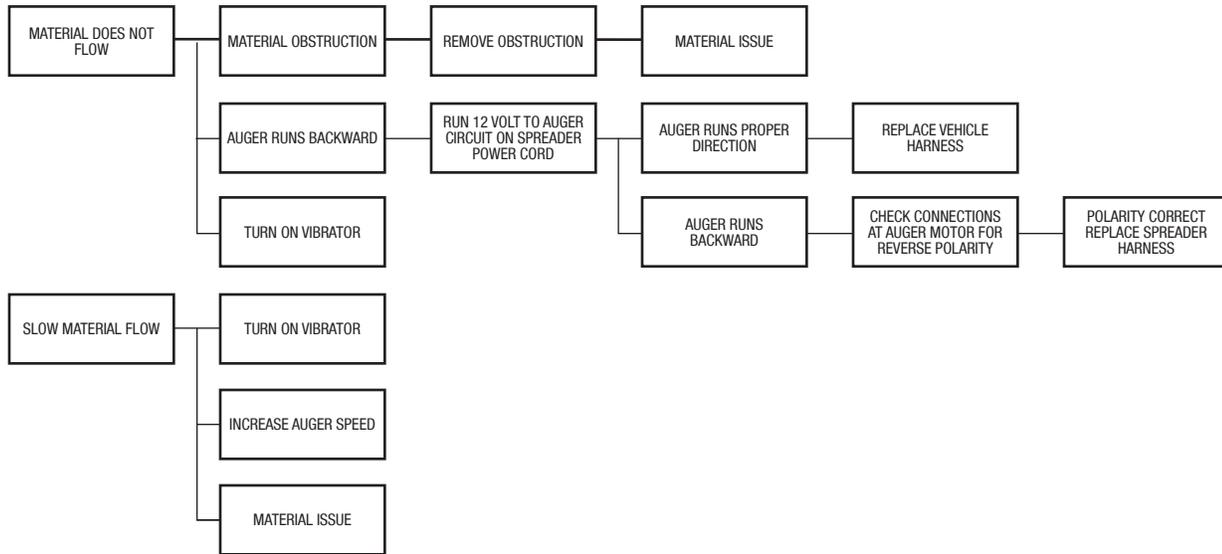


Model # SP-9500X



Troubleshooting Material Flow

Model # SP-9500X



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.

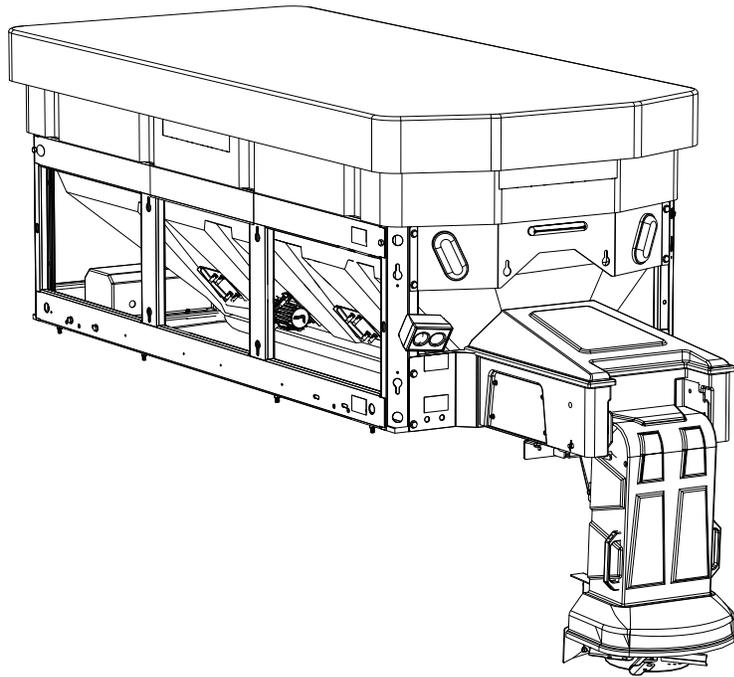
NO DEALER HAS AUTHORITY TO MAKE ANY REPRESENTATION OR PROMISE ON BEHALF OF SNOWEX, OR TO ALTER OR MODIFY THE TERMS OR LIMITATIONS OF THIS WARRANTY IN ANY WAY.

Spreader Views

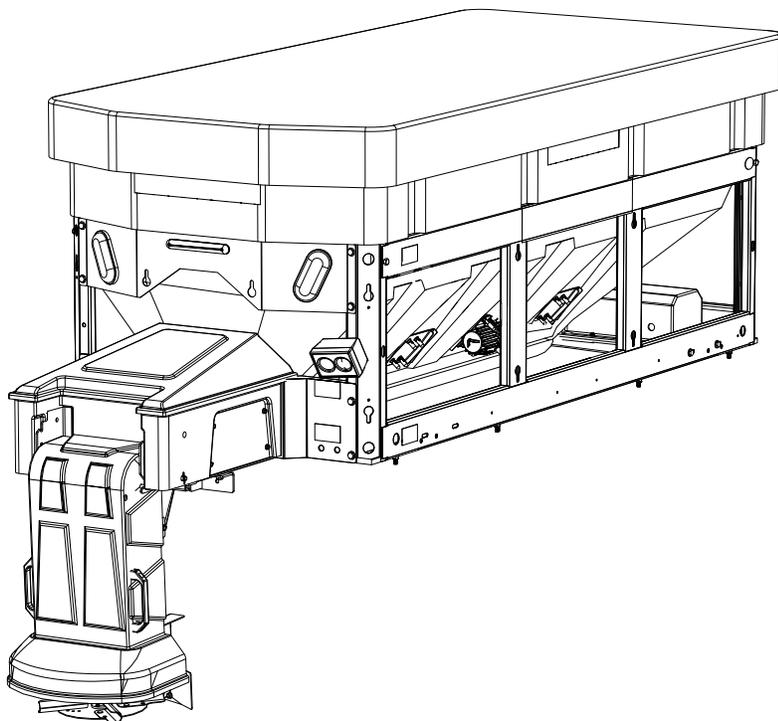


Model # SP-9500X

Driver's Side



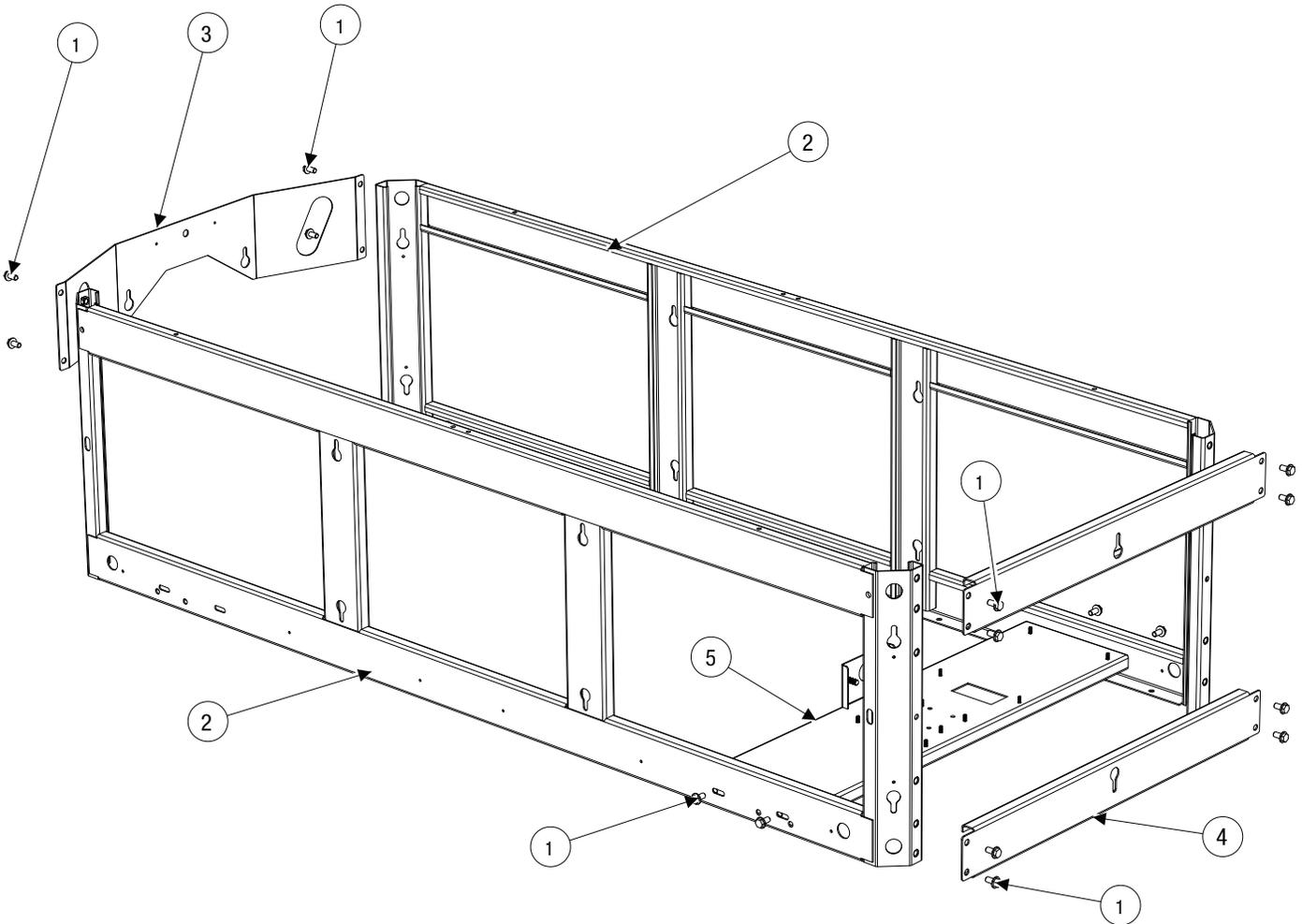
Passenger's Side



Frame Assembly Parts Breakdown



Model # SP-9500X

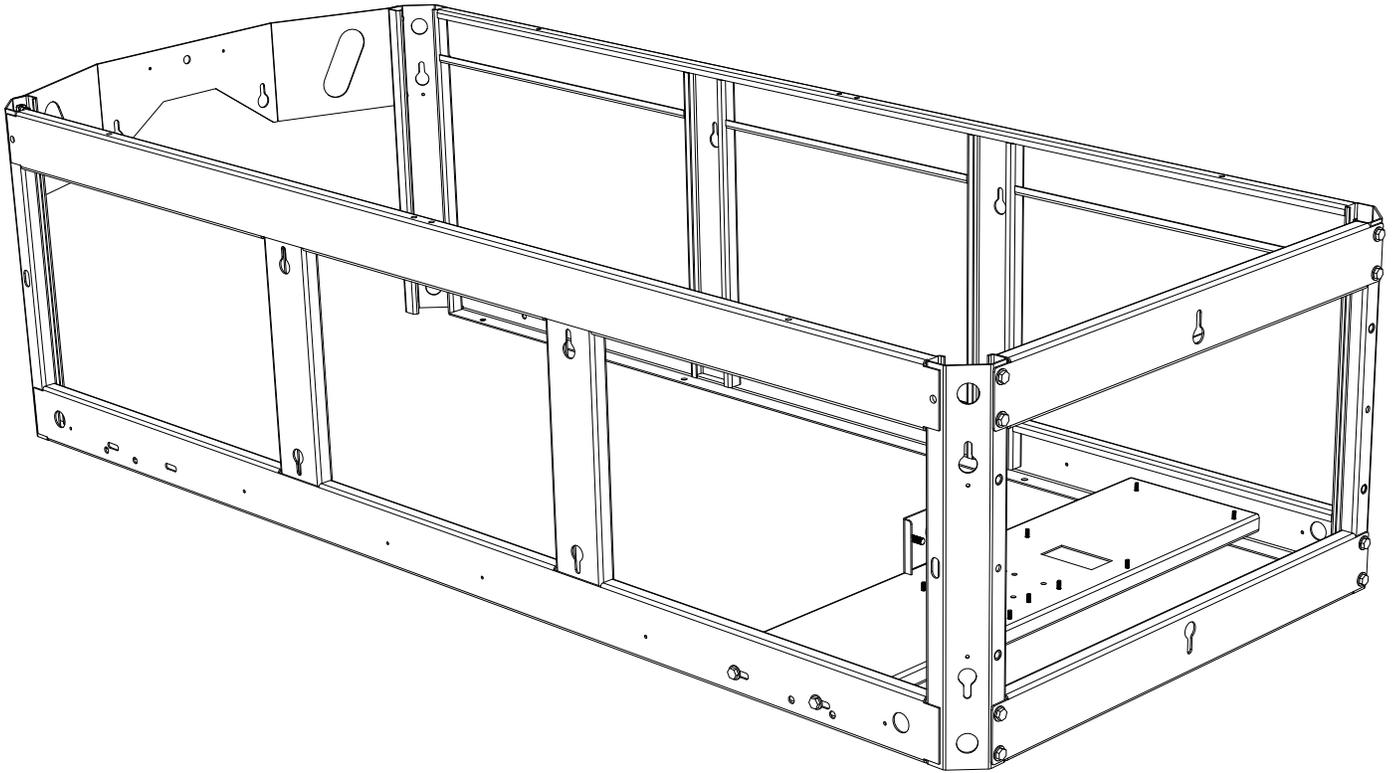


Ratchet Straps...Part No. F50600

Frame Assembly Parts Breakdown



Model # SP-9500X

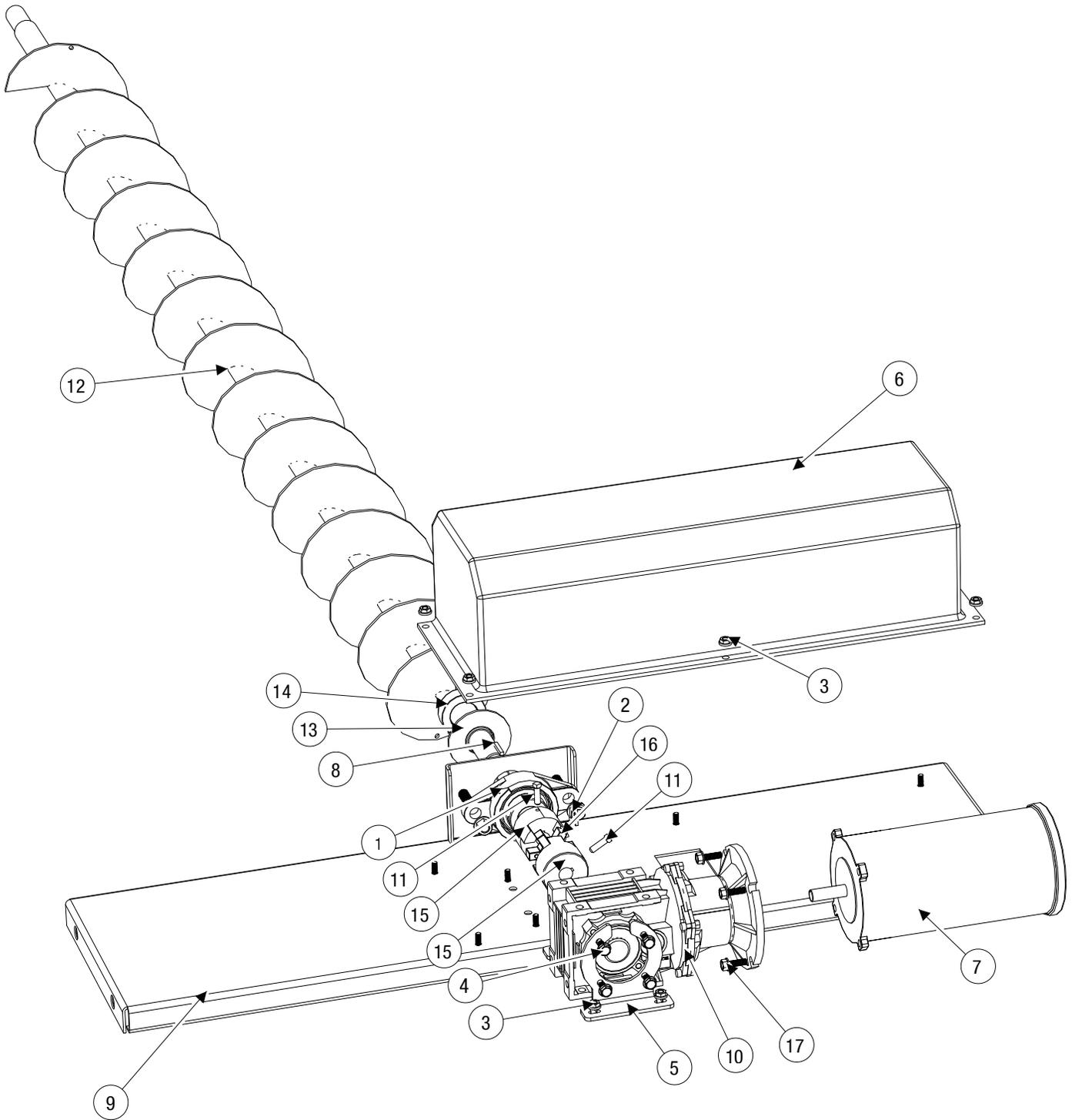


BOM ID	Description	Qty
1	D6528	16
2	D6879	2
3	D6880	1
4	D6882	2
5	D6884	1

Auger Drive Assembly Parts Breakdown



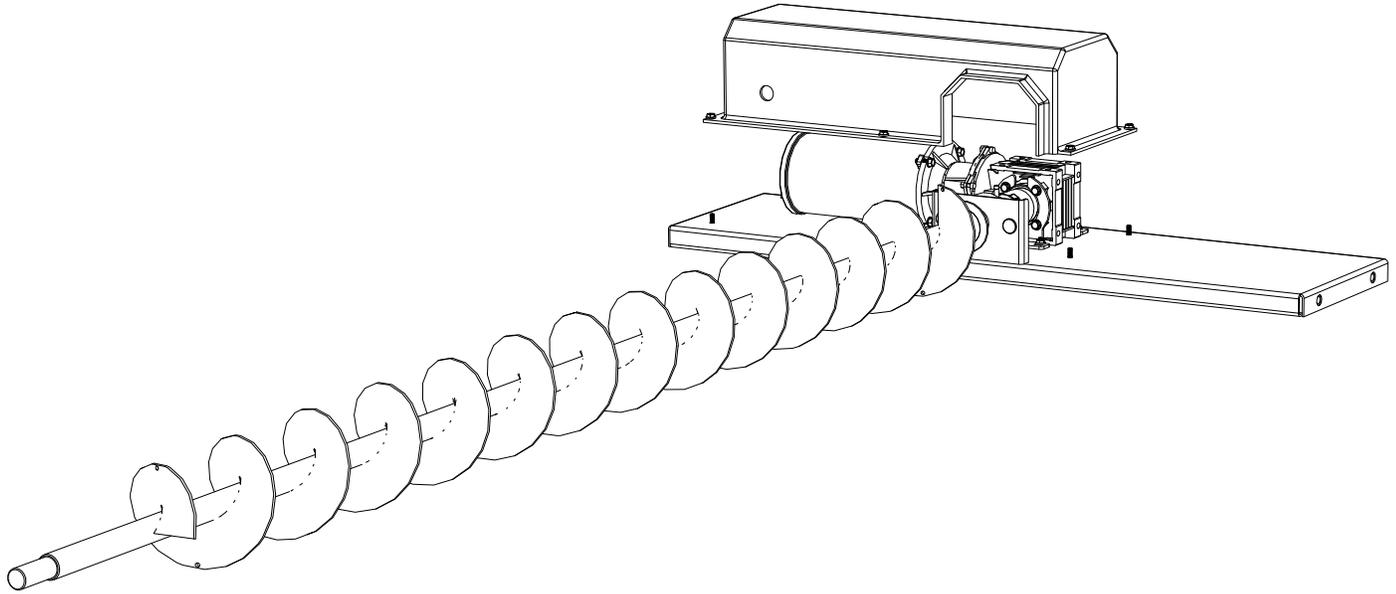
Model # SP-9500X



Auger Drive Assembly Parts Breakdown



Model # SP-9500X



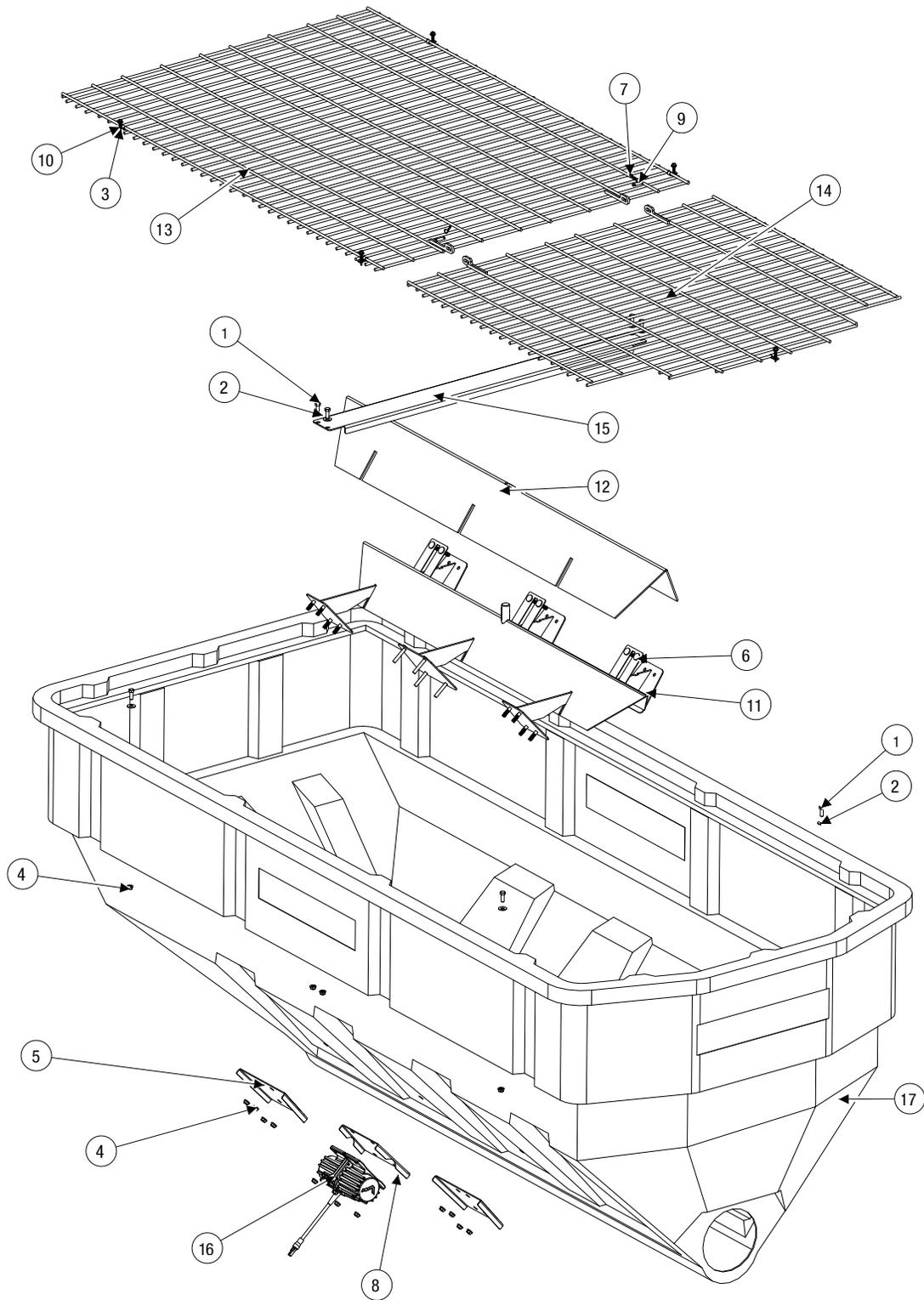
BOM ID	Description	Qty
1	D5382	1
2	D5535	2
3	D5706	10
4	D5753	8
5	D6752	2
6	D6868	1
7	D6872	1
8	D6873	1
9	D6884	1

BOM ID	Description	Qty
10	D6894	1
11	D7163	2
12	F50247	1
13	F50509	1
14	F50510	1
15	F50513	2
16	F50514	1
17	F50587	4

Hopper Assembly Parts Breakdown



Model # SP-9500X

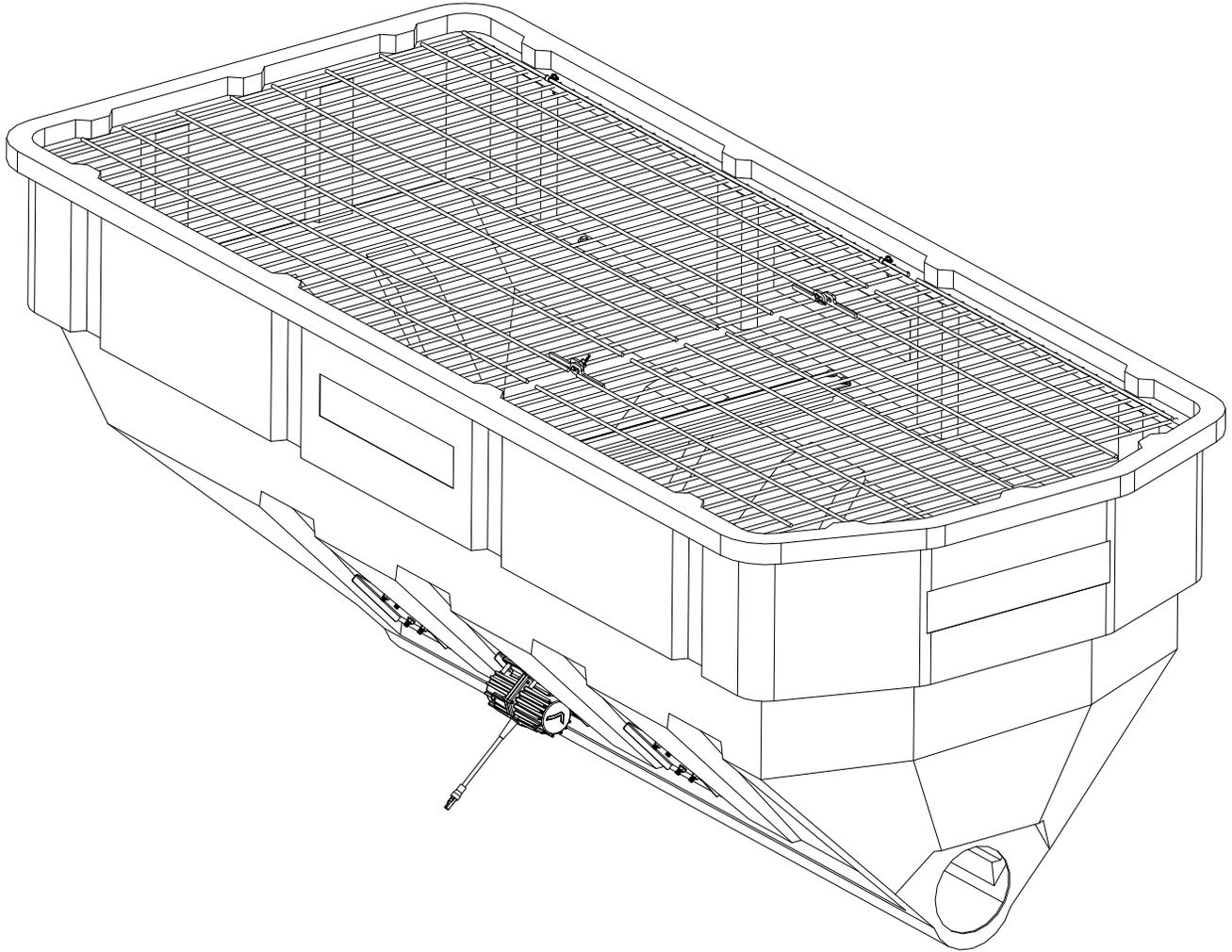


Hopper Cover...Part No. D6883

Hopper Assembly Parts Breakdown



Model # SP-9500X



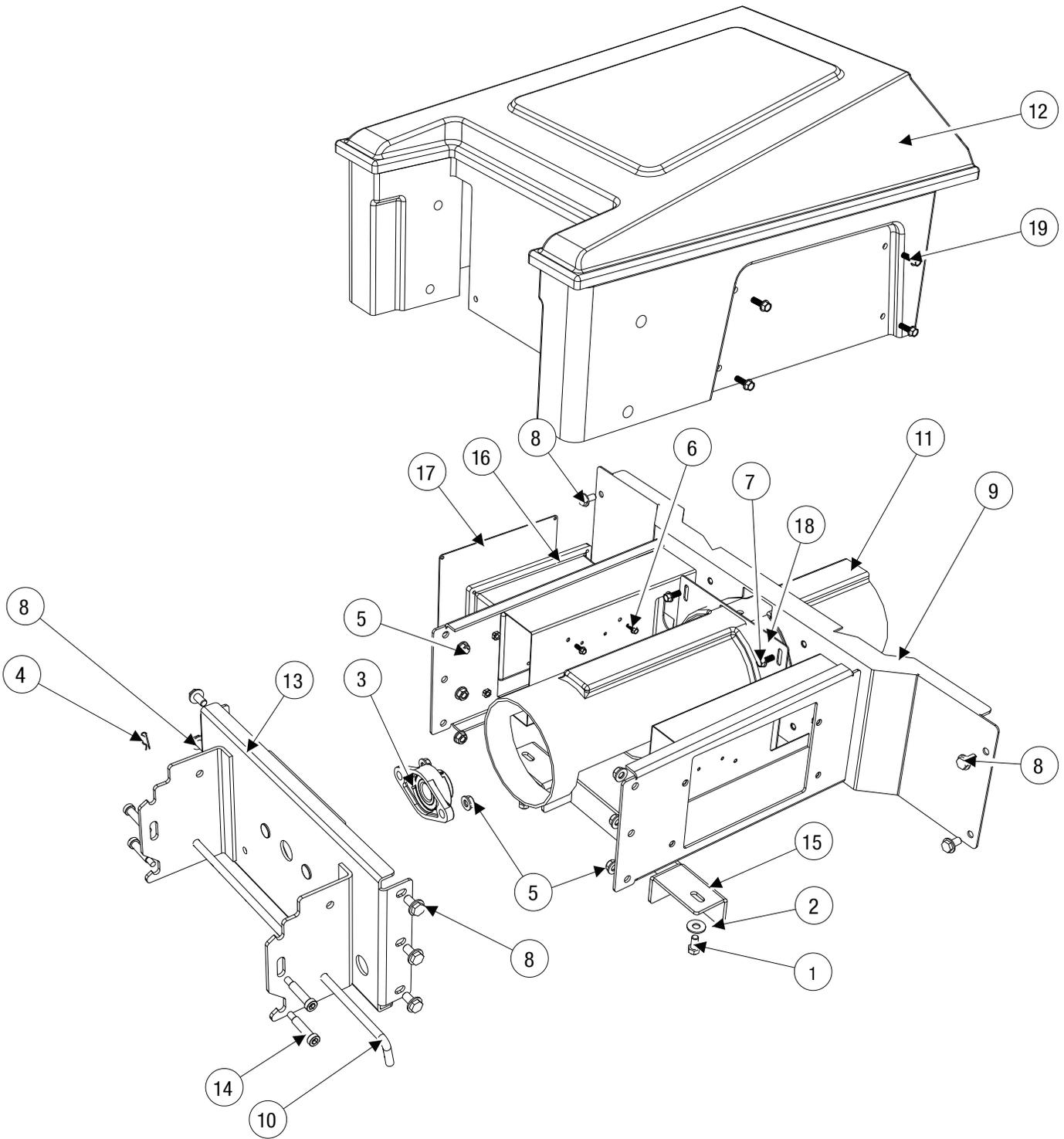
BOM ID	Description	Qty
1	D4121	8
2	D4125	8
3	D6509	5
4	D6584	32
5	D6811	5
6	D6815	3
7	D6853	2
8	D6860	1
9	D6866	2

BOM ID	Description	Qty
10	D6874	5
11	D6888	1
12	D6889	1
13	D6890	1
14	D6892	1
15	D6898	1
16	D6899	1
17	F50532	1

Auger Extension Assembly Parts Breakdown



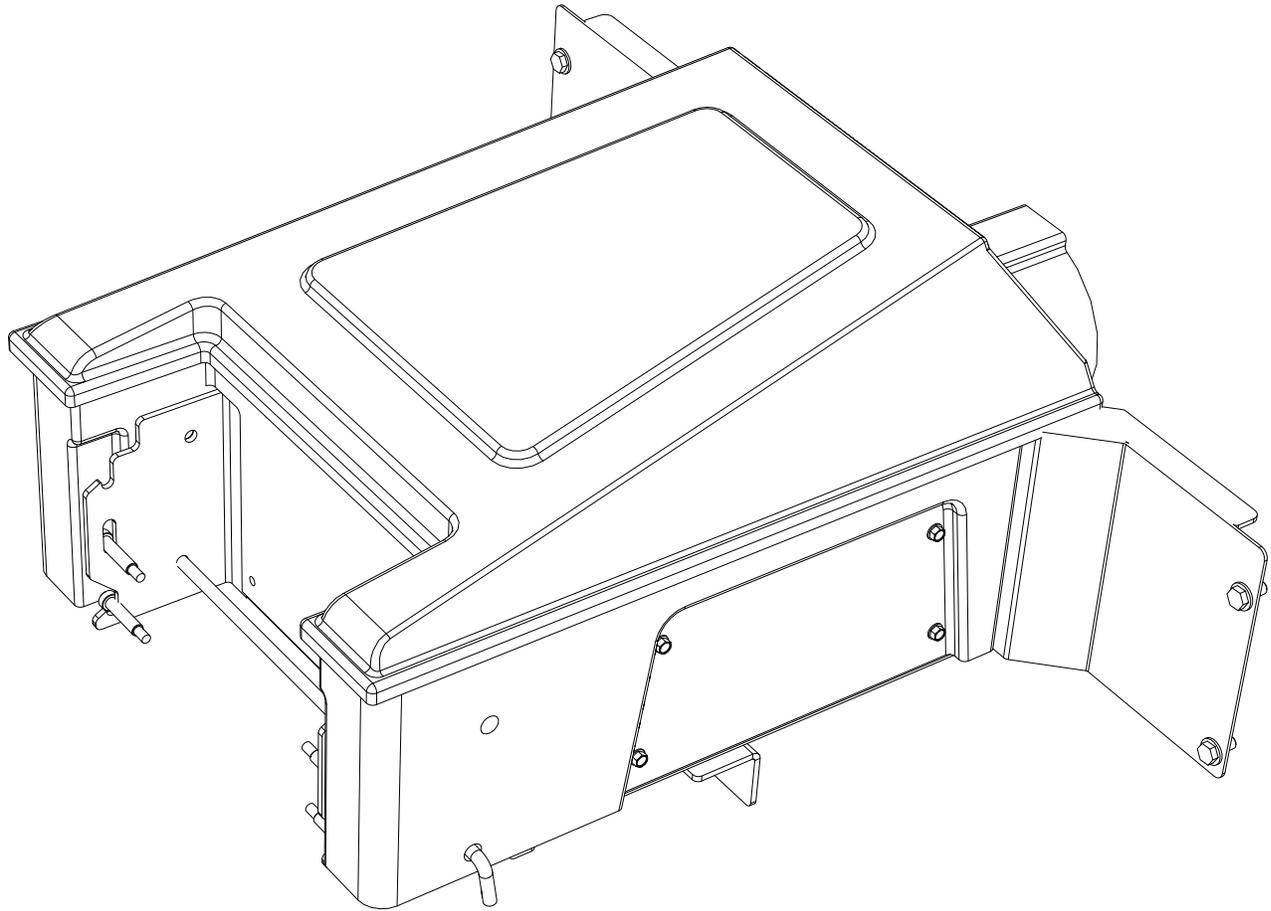
Model # SP-9500X



Auger Extension Assembly Parts Breakdown



Model # SP-9500X



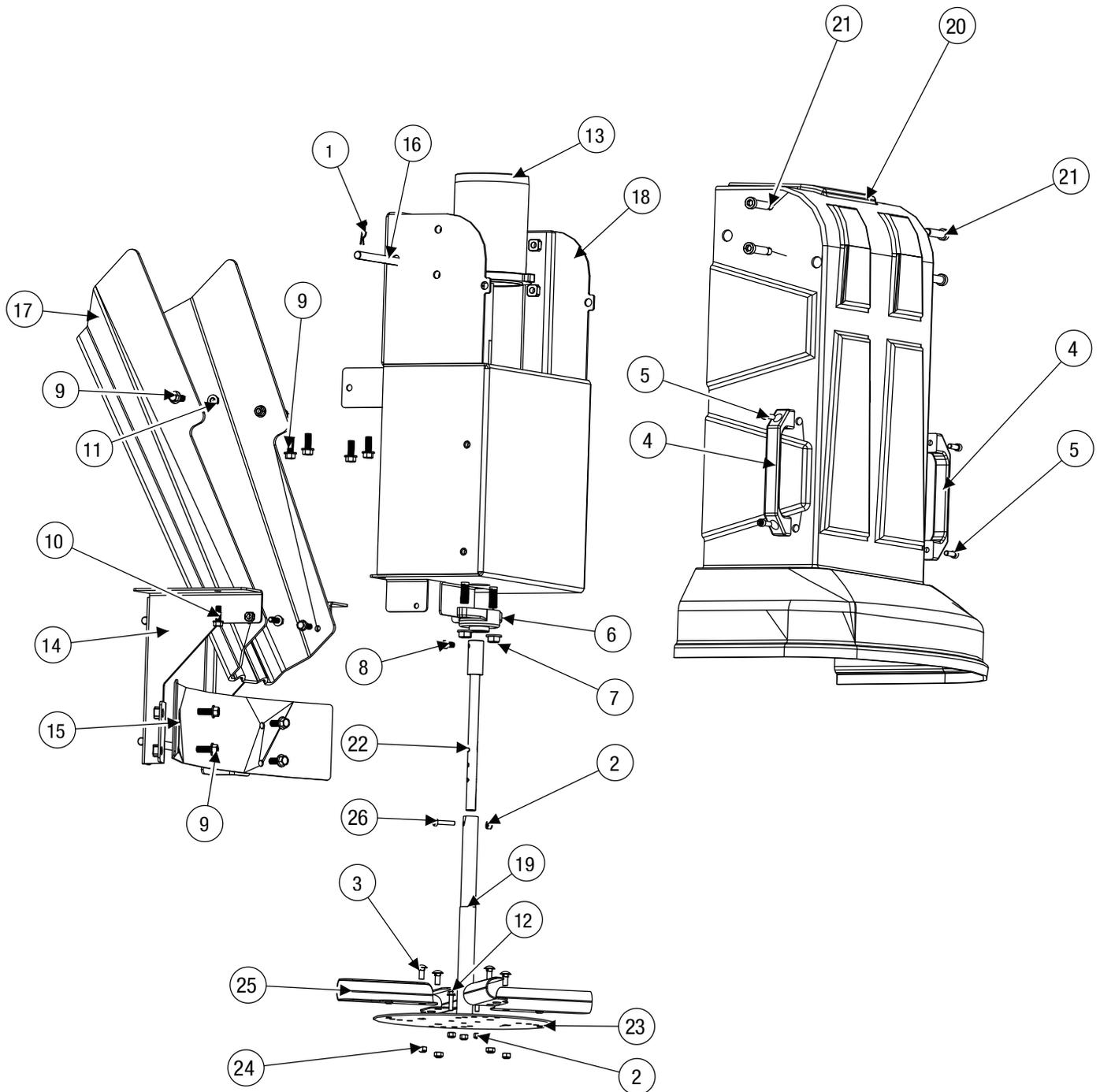
BOM ID	Description	Qty
1	D4115	2
2	D4119	2
4	D4135	1
3	D5382	1
5	D5535	10
6	D6132	4
7	D6452	4
8	D6528	10
9	F50365	1
10	F50366	1

BOM ID	Description	Qty
11	F50367	1
12	F50368	1
13	F50393	1
14	F50407	4
15	F50465	1
16	F50488	1
17	F50489	1
18	F50518	1
19	F50587	8

Drive Assembly Parts Breakdown



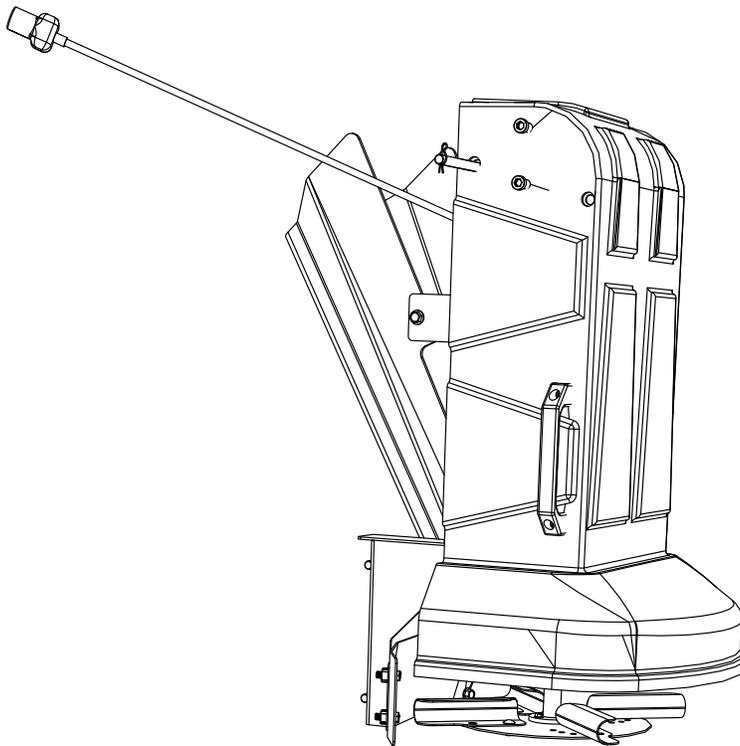
Model # SP-9500X



Drive Assembly Parts Breakdown



Model # SP-9500X



BOM ID	Description	Qty
1	D4135	1
2	D4289	4
3	D5022	4
4	D5248	2
5	D5293	4
6	D5527	1
7	D5535	2
8	D6133	1
9	D6452	10

BOM ID	Description	Qty
10	D6453	4
11	D6584	2
12	D6854	3
13	D6887	1
14	F50316	1
15	F50318	1
16	F50366	1
17	F50371	1
18	F50376	1

BOM ID	Description	Qty
19	F50394	1
20	F50405	1
21	F50407	4
22	F50441	1
23	F50517	1
24	T15018	4
25	T30207	4
26	T15132	1

SNOWEX®