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Stainless Steel Electric Spreader

Models SS8

Warning:

Do not exceed GVWR or GAWR with spreader and load. Overloading could result in an accident or damage.

Read this manual before installing or operating the spreader.

Sander warranty

ARCTIC salt/sanding equipment is guaranteed to be free from defects in material or workmanship under normal use and service for 1 (one) year after the date of purchase (except engine – see below). Arctic Equipment Manufacturing Corporation will replace or repair, at its election, without charge, any part which becomes defective within the period described above. Hydraulic motors, pumps, gear reducer, etc. are also covered under warranty for a period of 1 (one) year, with normal use.

Arctic Product's Liability is expressly limited to repair or replacement of defective parts. Arctic Equipment shall not be liable for any consequential, incidental, or contingent damages whatsoever, whether for breach of contract, breach of warranty, negligence, or other tort, or on any strict liability theory.

What is not covered under this warranty is specified below.

Warranty does not cover:

- Problems caused by failure to follow instructions and failure to maintain the product as described in the owner's manual.
- Damage to the product that has been subject to misuse, neglect, accident, or improper installation, maintenance, care, or storage.
- Damage caused by parts not used in accordance with their intended purpose.
- Paint or surface coating deterioration, expendable parts such as, but not limited to, controller keypad, bushings, stripped keyways or splines on external shafts, nuts and bolts or tightening nuts and bolts which are considered normal maintenance.
- Damage resulting from rust, corrosion, freezing or overheating; failure to maintain proper fluid/lubrication levels.
- Damage due to abrasion of wiring harnesses.
- Travel time incurred to and from dealers or suppliers, accommodations, meals, cost of tax, freight to/from dealers, storage charges, environmental charges, solvents, sealants, lubricants, or any other normal shop supplies.
- Problems caused by accessories and parts that are not supplied by Arctic Equipment.
- Damage resulting from lack of, or dirty lubrication or using other than recommended grade and type of lubrication.
- Running over recommended speeds.
- Repairs by an unauthorized person.
- Damage caused by improper mounting or conditions on units not mounted by factory. Improper maintenance or storage of equipment.

- Liability for damage to the property, or injury to, or death of any person arising out of the operation, maintenance or use of the covered product.

This warranty is made only to the original purchaser. There is no other warranty expressed, implied, or statutory.

The customer must register the equipment with Arctic within 60 days from the day of purchase using the online registration system found on the Arctic Equipment website

www.arcticsnowplows.com/warranty .

All parts returned to us, transportation charges prepaid, must be accompanied with a "Return Goods Authorization" number, obtained from the factory. In order to reduce down-time, we will, on your request, send the parts required and you will be billed under the usual terms. A credit will be issued to your account when the parts, in our examination prove to be defective.

Arctic Equipment Manufacturing Corporation reserves the right to change specification without prior notice.

Customer Responsibility

The loaded vehicle, including all after-market accessories, the salt/sanding equipment, passengers, and cargo, MUST NOT exceed the gross vehicle weight rating (GVWR), front gross axle weight rating (FGAWR), or rear gross axle weight rating (RGAWR) specified on the Safety Compliance Certification Label located in the driver's side door opening. It is the operator's responsibility to verify that these ratings are not exceeded.

To determine the Gross Axle Weights for your vehicle, including all after market accessories, the salt/sanding equipment, passengers, and cargo, take your loaded vehicle to a scale. Place the front wheels of the vehicle on the scale to get the Front Gross Axle Weights (FGAW). To get the Rear Gross Axle Weights (RGAW), place the back wheels of the vehicle on the scale.

Disclaimer Notice

Arctic Equipment Manufacturing Corporation (Arctic) does not assume liability for damage to your motor vehicle resulting from the attachment or use of an Arctic salt/sanding equipment. The purchaser assumes all vehicle risk associated with the attachment and operation of this salt/sanding equipment.

The added weight may impair the operation and control of your vehicle. Additional equipment may be necessary before installing salt/sanding equipment. Please consult your vehicle dealers prior to the purchase and installation of the salt/sanding equipment.

Stainless Steel Electric Spreader

WARNING:

- Do not exceed the gross vehicle weight ratings (GVWR), front gross axle weight rating (FGAWR) or rear gross axle weight rating (RGAWR) with spreader and load. Overloading could result in an accident or damage.(Refer to Material Density chart below)

Material Density (lb per cubic yd)

Fine Salt – Dry 1400

Coarse Salt – Dry 1300

Coarse Sand – Dry 2800

Coarse Sand – Wet 3300

For Electric sander with the variable speed box:

-Never hook booster cables directly to the motor; this would void your warranty.

-Unplug sander battery cables before boosting your truck.

Before attempting any procedure in this book, read and understand all the safety information contained in this section. In addition, ensure all individuals working with you are also familiar with these safety precautions.

For your safety, warning and information decals have been placed on this product to remind the operator to take safety precautions. It is important that these decals are in place and are legible before operation begins. New decals can be obtained from Arctic Equipment Manufacturing or your local dealer.

Remember it is the owner's responsibility for communicating information on the safe use and proper maintenance of this equipment. The careful operator is the best operator. Most accidents are caused by human error. Certain precautions must be observed to prevent the possibility of injury to operator or bystanders and/or damage to equipment.

-Driver to keep bystanders a minimum of 25 feet away from operating spreader.

-Servicing the sander without special tools and knowledge could result in personal injury. See an authorized Arctic dealer for service.

-Before servicing the spreader, wait for conveyor or spinner to stop and then lock out power.

-Do not climb into or ride on spreader.

-Disconnect electric and/or hydraulic power and tag out if required before servicing or performing maintenance.

-Do not allow hands, hair or clothing to get near any moving parts such as spinner, chain etc.

-Do not wear neckties or loose clothing when working on the vehicle. These things can catch on moving parts or cause an electrical short circuit that could result in personal injury. Do not wear wrist watches, rings or other jewellery when working on the vehicle or individual equipment

-Do not allow unauthorized person to operate this unit.

-Do not work on a vehicle without having a fully serviced fire extinguisher available. (Dry chemical unit specified for gasoline, chemical or electrical fires).

- Do not smoke while working on the vehicle. Gasoline and battery acid vapours are extremely flammable and explosive.
- Do not alter the sander, or any part without written approval of Arctic Equipment Manufacturing Corporation.
- Do not use your hands to search for hydraulic fluid leaks; escaping fluid under pressure can be invisible and can penetrate the skin and cause injury.
- Do not leave unused material in hopper. Material can freeze or solidify, causing unit to not work properly. Empty and clean after each use.
- Inspect the sander periodically for defects. Parts that are loose, broken, missing or plainly worn must be tightened or replaced immediately.
- Check the job site for terrain hazards, obstructions and people. Check surrounding area for hazardous obstacles before operating this unit.
- Wear safety goggles when working on the vehicle to protect your eyes from battery acid, gasoline, and dust or dirt from flying off of moving engine parts.
- Be aware of and avoid contact with hot surfaces such as engine, radiator, and hoses.
- Wear safety glasses with side shields when striking metal against metal. Failure to heed could result in injury to the eye(s) or other parts of the body.
- Shut off the vehicle engine, place the transmission in neutral or park, turn the ignition switch to the "off" position, firmly apply the parking brake of the vehicle before removing / installing the sander.
- Be sure that the sander is properly attached before moving the vehicle.
- To remove the sander, the unit must be empty. Do not stand close to the sander when it is being lifted. Keep a safe distance away.

Sander Specification

1/2 -HP electric motor, 35-amp electric motor.

In cab variable speed wireless controller.

Spreader Installation

The SS8 is designed for installation in an 8' pickup truck bed. Follow the steps below to install your unit in your vehicle.

- a) Slide spreader into position and secure with the ratchet straps into the cargo tie downs of the truck (pictures # 6)
- b) Install the SS spreader spinner assembly and secure it using a pin. (Picture#7)
- c) Connect all the cables as shown in the electric system diagram. Be sure to grease all connections.

Maintenance

Daily Inspection and Lubrication

- a) Check gearbox oil level. It should be filled to the oil level plug. (Picture#5)
- b) Lubricate the following grease nipples:
 - 1) 1 on conveyor idler shaft bearing (2 bearings) (picture #1)
 - 2) 1 on drive shaft bearing (picture #2)
 - 3) 1 on spinner shaft bearing (2 bearings if one hydraulic motor is used, 1 bearing if two hydraulic motors are used) (Picture #3)

Yearly Inspection

- a) At the end of the operating season, the unit should be thoroughly cleaned and lubricated. The conveyor chain (picture #9) should, ideally, be stored in oil. These preventative measures should prevent premature rusting of the unit. Grease bolts on the chain tighteners. (Picture #4)
- b) At this time or before the start of the next season, it is wise to check all drive components for appreciable wear. Any components which are questionable should be replaced now. This short and simple check will avoid down time during the operating season.
- c) Change the gear box oil.
- d) Replace the oil filter. (Note: If the unit is utilized year-round, replace it twice a year).

Before Operating

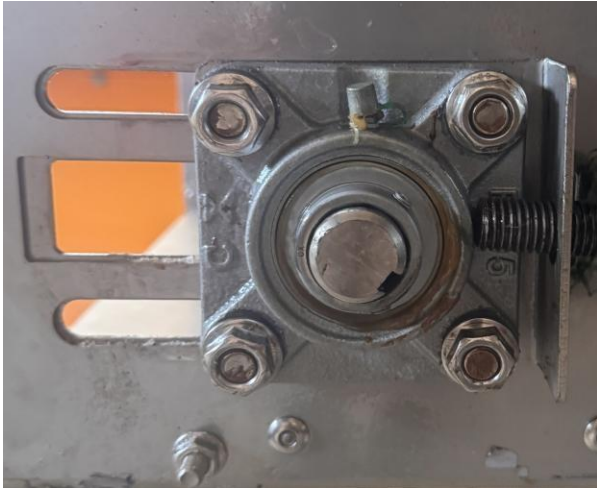
- a) Grease all lubrication points.
- b) Ensure that the conveyor chain is dragging for one foot on the bottom return channel, of the spreader. (Do not over tighten the chain).

Lubricants

Speed Reducer Lubricant semi-synthetic oil gx extra 75W90

Oil Quantity: CCMR40=0.081 LITER

CCMR50=0.120 LITER



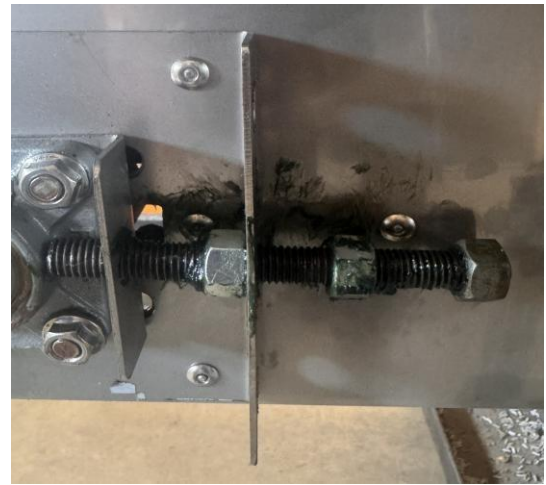
Picture 1



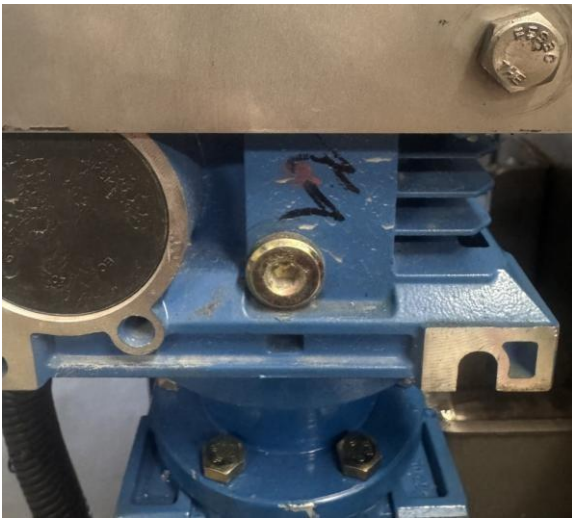
Picture 2



Picture 3



Picture 4



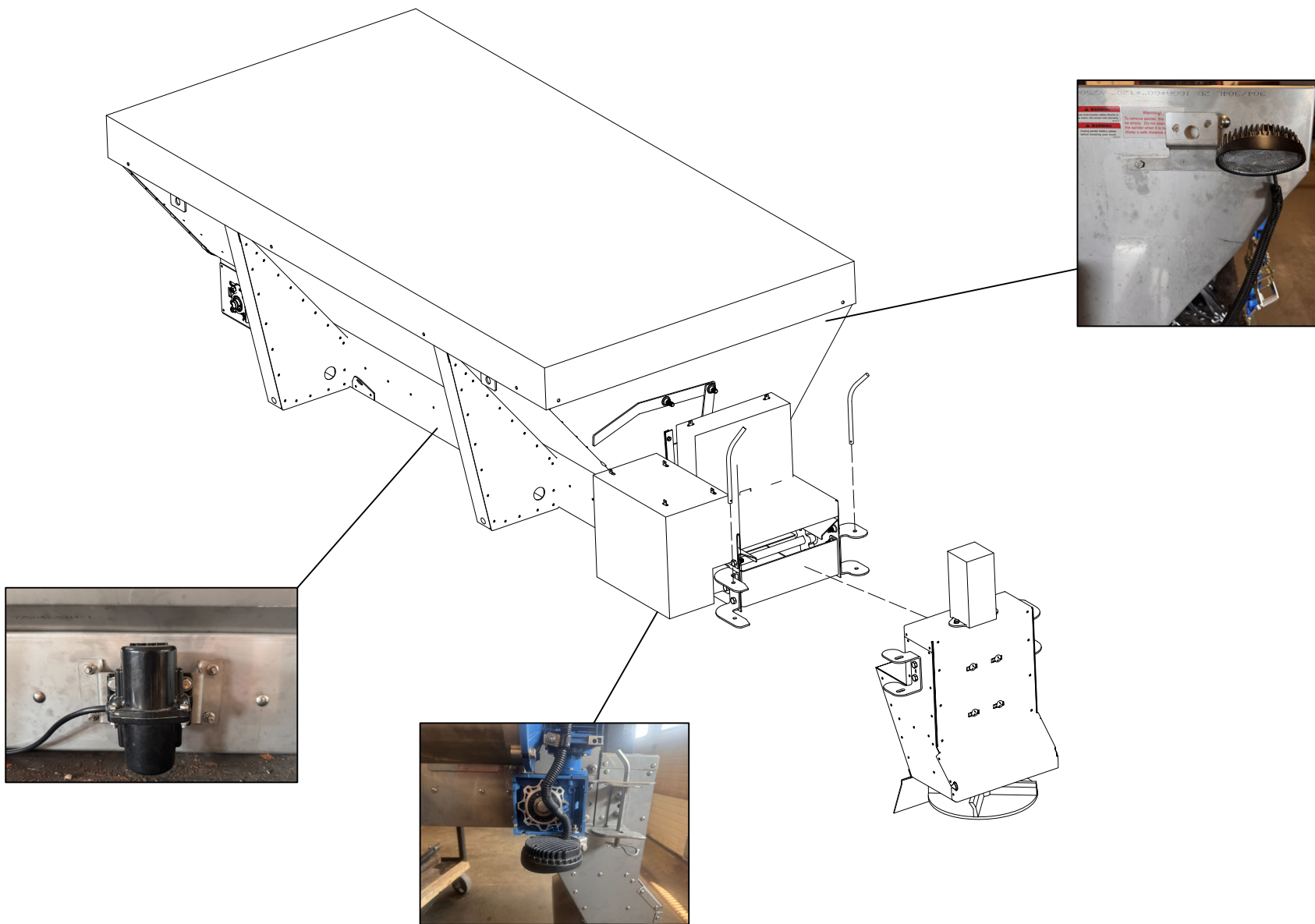
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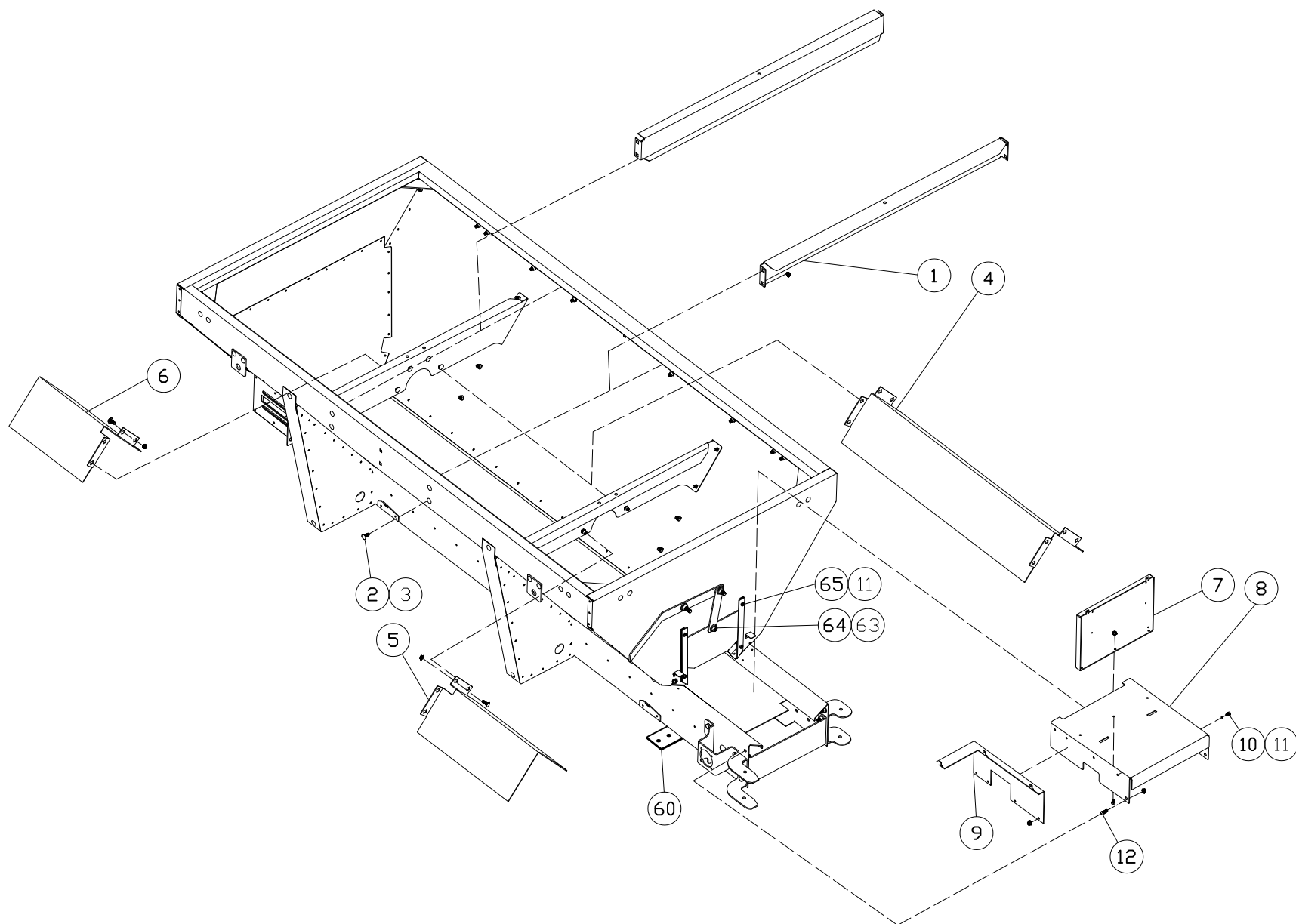


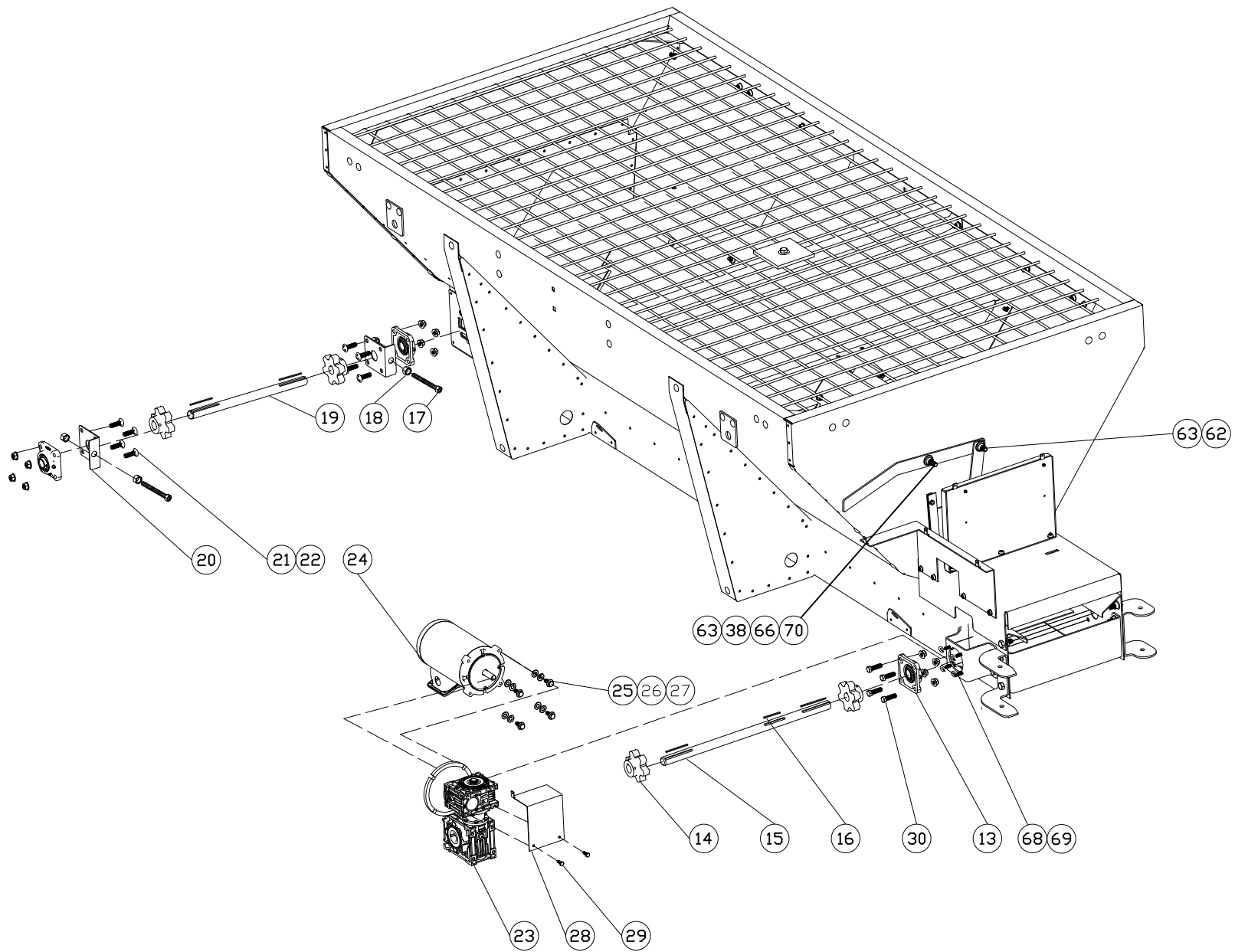
Picture 6

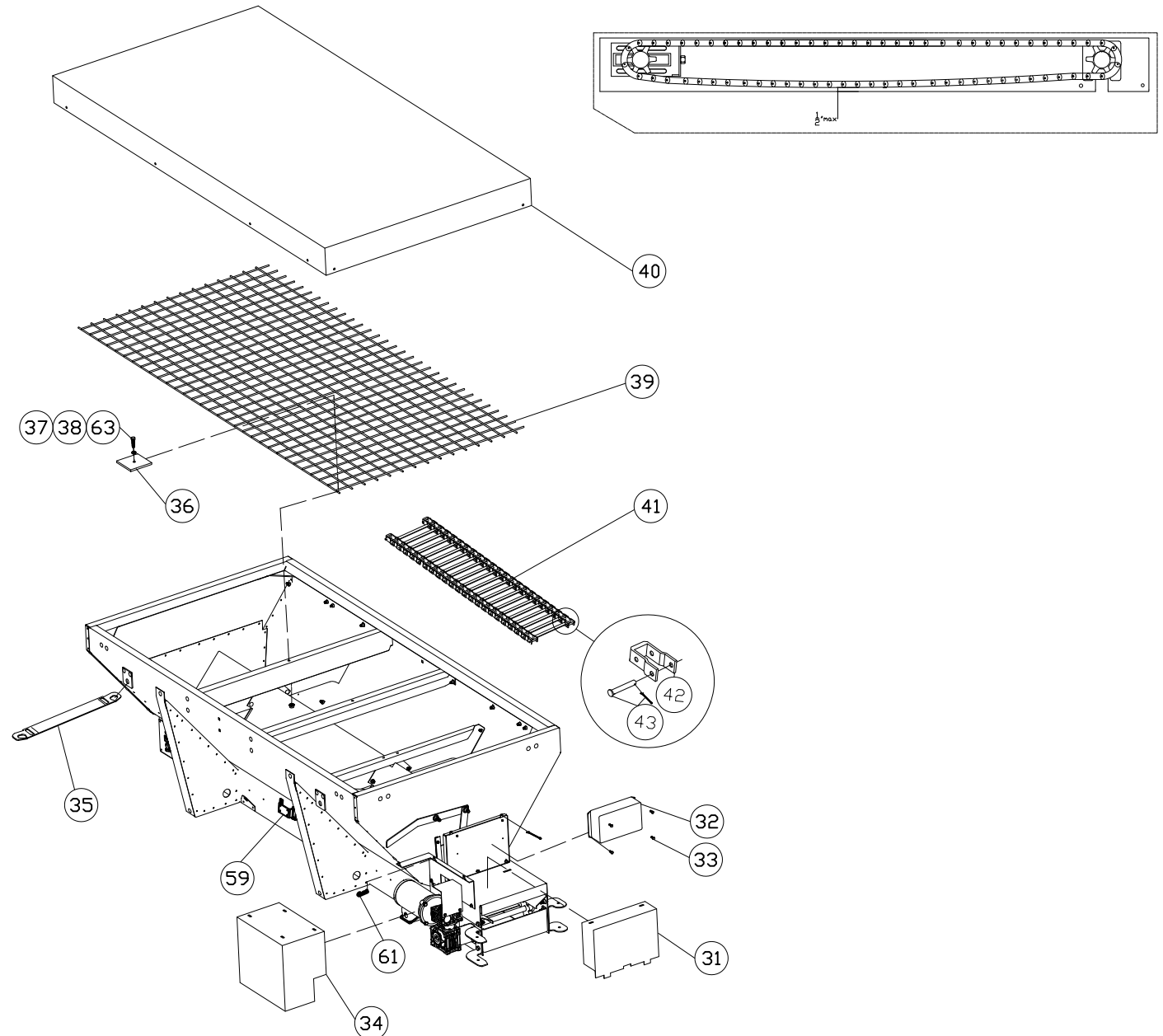


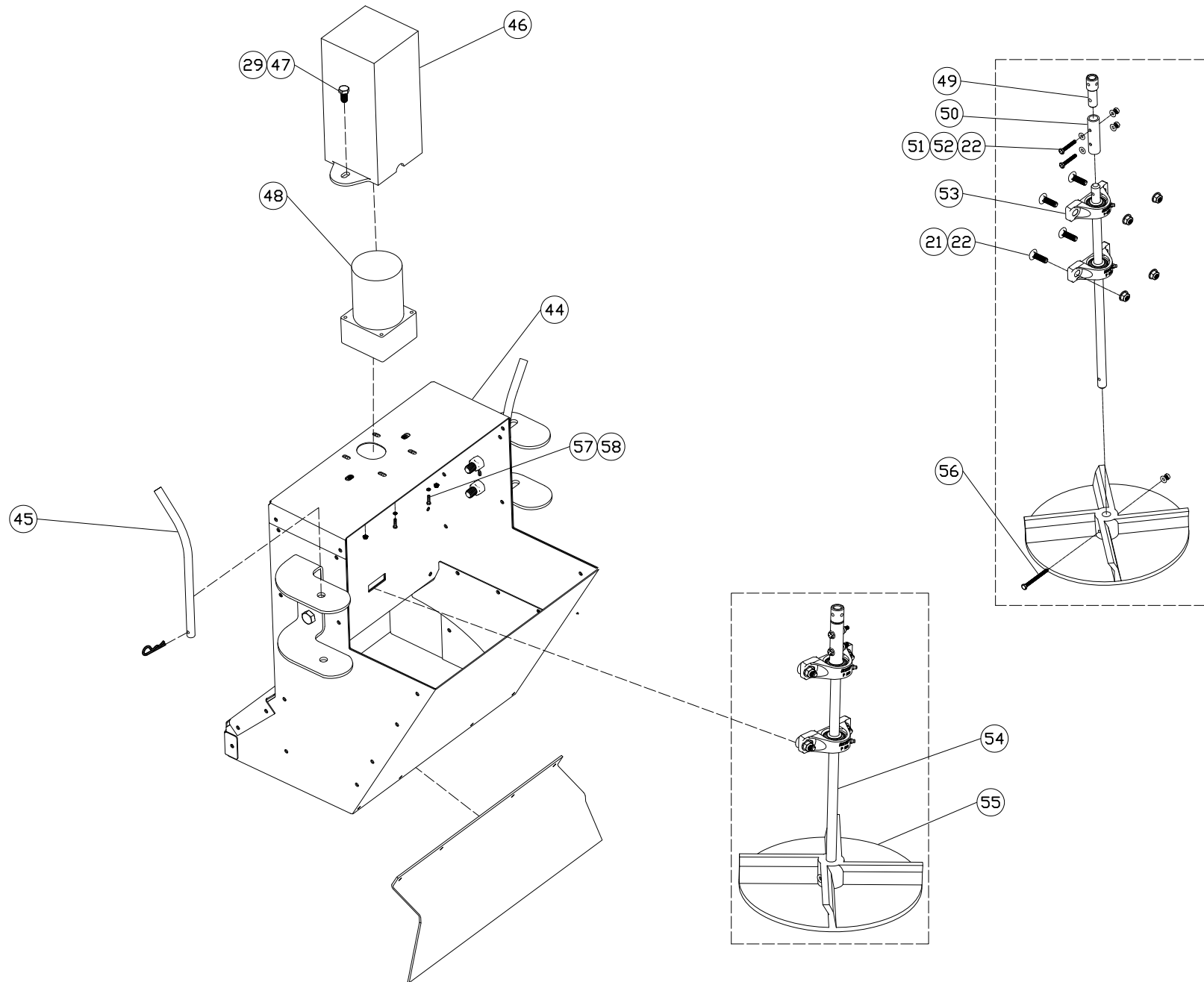
Picture 7











Stainless Steel Spreader			
SN	Part#	Description	Quantity
1	90354-03-D	Middle Stiffener	1
2	53600-0006	3/8 - 16 X 1 18-8 SS Carriage Bolt	96
3	HH-00086-011	3/8- 16 18.8 SS Serrated Flange Locknut	96
4	90352-03-D	Inverted V Plate	1
5	90401-03-D	Inverted V Support Half (21")	1
6	90402-03-D	Inverted V Support Half (17")	1
7	90376-03-B	Controller Box	1
8	90365-03-D	Controller Plate	1
9	90411-03-D	Cover Bracket	1
10	HH-00300-025	5/16 - 18 UNC X 1/2 IN 18.8 SS HHCS	80
11	HH-00086-010	5/16- 18 UNC 18.8 SS Serrated Flange Locknut	91
12	HH-00300-063	1/2- 13 UNC X 1-1/4 IN 18.8 SS HHCS	14
13	HH-00859-014	Idler Shaft Bearing, Four Bolt Flange	3
14	RB-872-1	Drive Sprocket 6 Tooth (1" Bore), C/W 1/4"	4
15	90367-A	Driven Shaft	1
16	HH-00291-103	Key Stock 1/4 In X 4 In	5
17	90131-A	Bolt Weldment for Idler Bearing	2
18	HH-00294-007	Hex Nut 5/8-11 UNC	4
19	90389-A	Idle Shaft	1
20	90350-03-A	Bent Bearing Bracket for Chain Tightening	2
21	HH-00300-085	7/16-14 UNC X 1-1/2 IN 18-8 SS Carriage Bolt	12
22	HH-00086-012	7/16- 14 UNC 18.8 SS Serrated Flange Locknut	16
23	90407-N	Gear Reducer 100: 1	1
24	90406-N	1/2-HP SS Motor	1
25	HH-00300-049	3/8 -16 UNC X 1 IN 18.8 SS HHCS	4
26	53600-0007	3/8 18-8 SS REG Lock washer	4
27	HH-00271-006	3/8 FLAT WASHER - 18.8 SS	4
28	90412-03-D	Bent Cover Support	1
29	HH-00300-003	1/4 - 20 X 3/4 HEX HD CAP SCREW 18.8 SS	4
30	HH-00300-056	7/16- 14 UNC X 1-1/2 IN 18.8 SS HHCS	4
31	90383-B	Control Box Cover	1
32	90342-M	Spreader Wireless Control Kit 6/8 Ft Spreader (C/W Wireless Controller, Black Box, Wiring)	1
33	HH-00300-075	#8 -32 x 3/4 in Hex Head	4
34	90413-B	Motor Gear Cover	1
35	90040-N	Sander Ratchet Strap	4
36	90154-A	Screen Hold Down (3/8 X 5 X 5 X 5 X Poly)	1
37	HH-00300-065	1/2- 13 UNC X 1-3/4 IN 18.8 SS HHCS	2

38	HH-00271-007	1/2 Flat Washer - 18.8 SS	14
39	90134-N	AG8 Sander Screen (46.1/4 X 92.5)	1
40	90385-D	Tarp	1
41	RB-32992-02ESS	8 Ft Chain Assembly (For Electric Ss Sander Only)	1
42	RB-32992-04	Chain Connecting Link	-
43	RB-32992-05	Chain Connecting Pin	-
44	90403-02-D	SS Spreader Spinner Body Assembly	1
45	90366-03-A	Bent Pin (Spinner), Ss Spreader	2
46	90384-B	Cover For Spinner Motor	1
47	HH-00086-016	1/4-20 Nylon Insert L/N - 18.8 SS	8
48	90307-N	Gear Motor for Dual Electric Sander	1
49	90386-A	Insert (Spinner Motor to Rubber Coupling)	1
50	90388-A	Rubber Coupling	1
51	HH-00300-006	1/4 - 20 UNC X 1-3/4 IN 18.8 SS HHCS	2
52	HH-00271-003	1/4 Flat Washer - 18.8 SS	14
53	90409-N	Pillow Bearing 3/4 IN	2
54	90387-A	Shaft	1
55	90414-N	Spinner Disk Poly, 3/4" Shaft	1
56	HH-00300-011	1/4 - 20 UNC X 3 IN 18.8 SS HHCS	1
57	HH-00300-073	M6 x 3/4 in Hex Head	4
58	HH-00271-008	M6 Flat Washer - 18.8 SS	4
59	90370-03-B	Vibrator Bracket	2
60	90421-B	Tie Down Plate	1
61	HH-00020-165	Hitch Pin Clip	7
62	HH-00300-064	1/2-13 X 1.1/2 Hex HD Cap Screw 18.8 SS	9
63	HH-00086-013	1/2-13 UNC 18.8 SS Serrated Flange Locknut	36
64	HH-00300-095	1/2 -13 UNC X 1 IN 18-8 SS Carriage Bolt	13
65	HH-00300-028	5/16 - 18 UNC X 1-1/4 IN 18.8 SS HHCS	4
66	HH-00086-003	1/2-13 Nylon Insert L/N - 18.8 SS	2
67	HH-00271-005	5/16 Flat Washer - 18.8 SS	75
68	HH-00300-079	M8 X 20 SS Bolt	4
69	HH-00271-011	5/16 SS Reg Lockwasher	4
70	HH-00300-065	1/2- 13 UNC X 1-3/4 IN 18.8 SS HHCS	2

Arctic Equipment Manufacturing Corporation reserves the right under its product improvement policy to change construction or design details and furnish equipment when so altered without reference to illustrations or specifications used.