

This Manual Must Be Read Before Operating The Equipment

Owner / Operator's Manual



FOR MODELS

SP-100 Serial # X1-230300 and higher



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800-725-8377
www.snowexproducts.com

Customers Copy

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Have a question or need assistance?

SnowEx Customer Care

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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 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 _____ Controller 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 Vehicle 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.



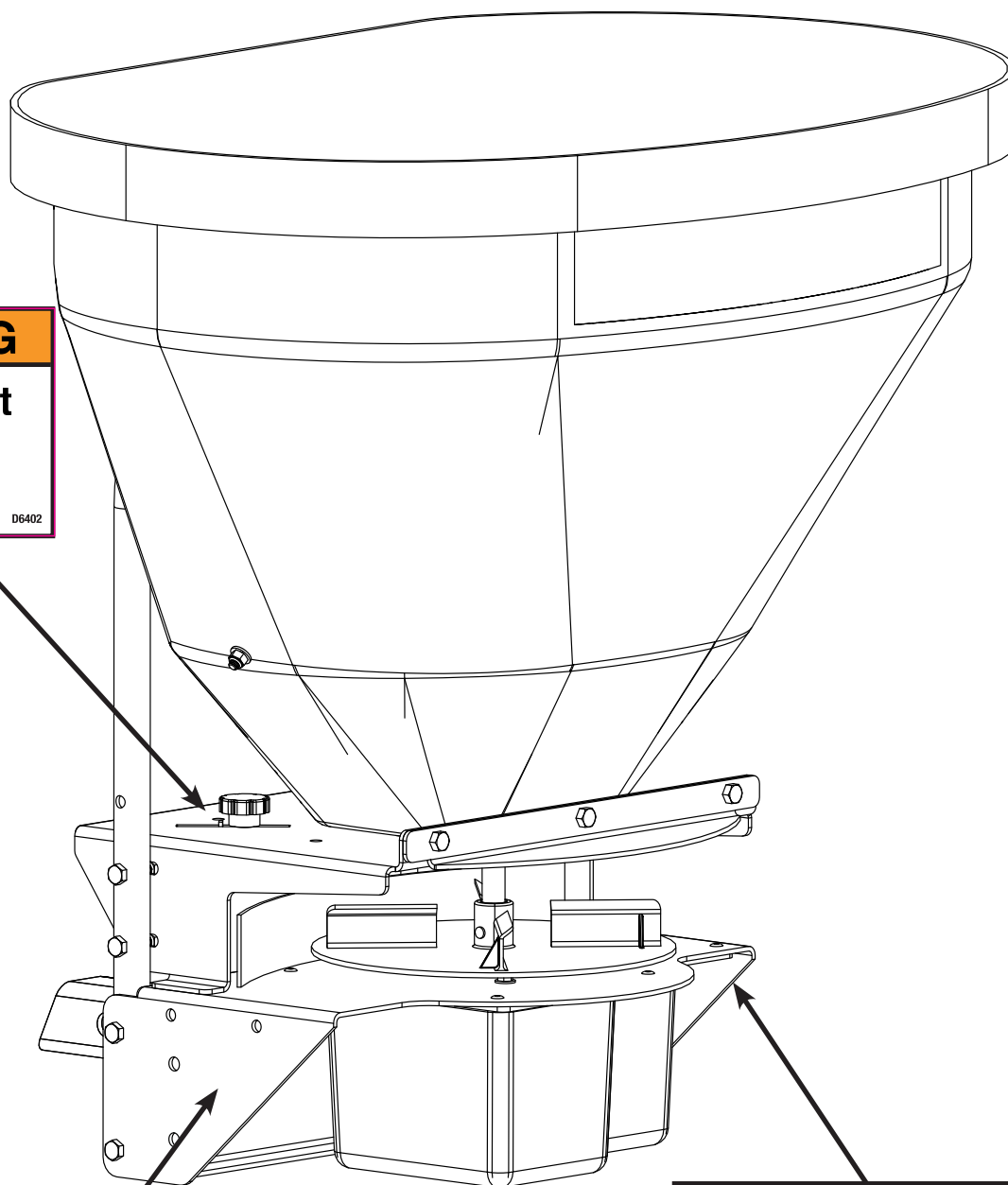
Never use wet materials or materials with foreign debris with any of these spreaders. These units are designed to handle dry, clean, free flowing material.

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-100



⚠ WARNING

**Maximum Weight
Capacity
240 lbs.**

D6402



WARNING

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

D6194



WARNING

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

D6192

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Operating the Spreader

Model # SP-100

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.

SPREADER OPERATION

- Comes standard with electronic speed control and electric gate flow control kit.
- To start, select proper gate stop position, desired starting speed and switch control on.
- To open gate, engage switch to the left of the control on/off switch, to close gate dis-engage switch.
- You will need to adjust speed up or down to achieve a proper pattern when using different material types.
- 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.

Spreader Maintenance



Model # SP-100

- **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.
- If motor cover is removed for any reason, use silicone sealant to ensure weather proofing of enclosure.
- After first use, tighten all nuts and bolts on spreader and mount.
- **Keep Gate Linkage lubricated throughout use with Moly Based Lubricants.**

General Wiring Instructions



Model # SP-100

Step 1: Take harness assembly and route from the rear of the vehicle to the front. Route harness along frame and attach to frame holes 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 re 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 going to drill into the vehicle harness or a control module. Generally you can drill on either side of the steering wheel for a good location.

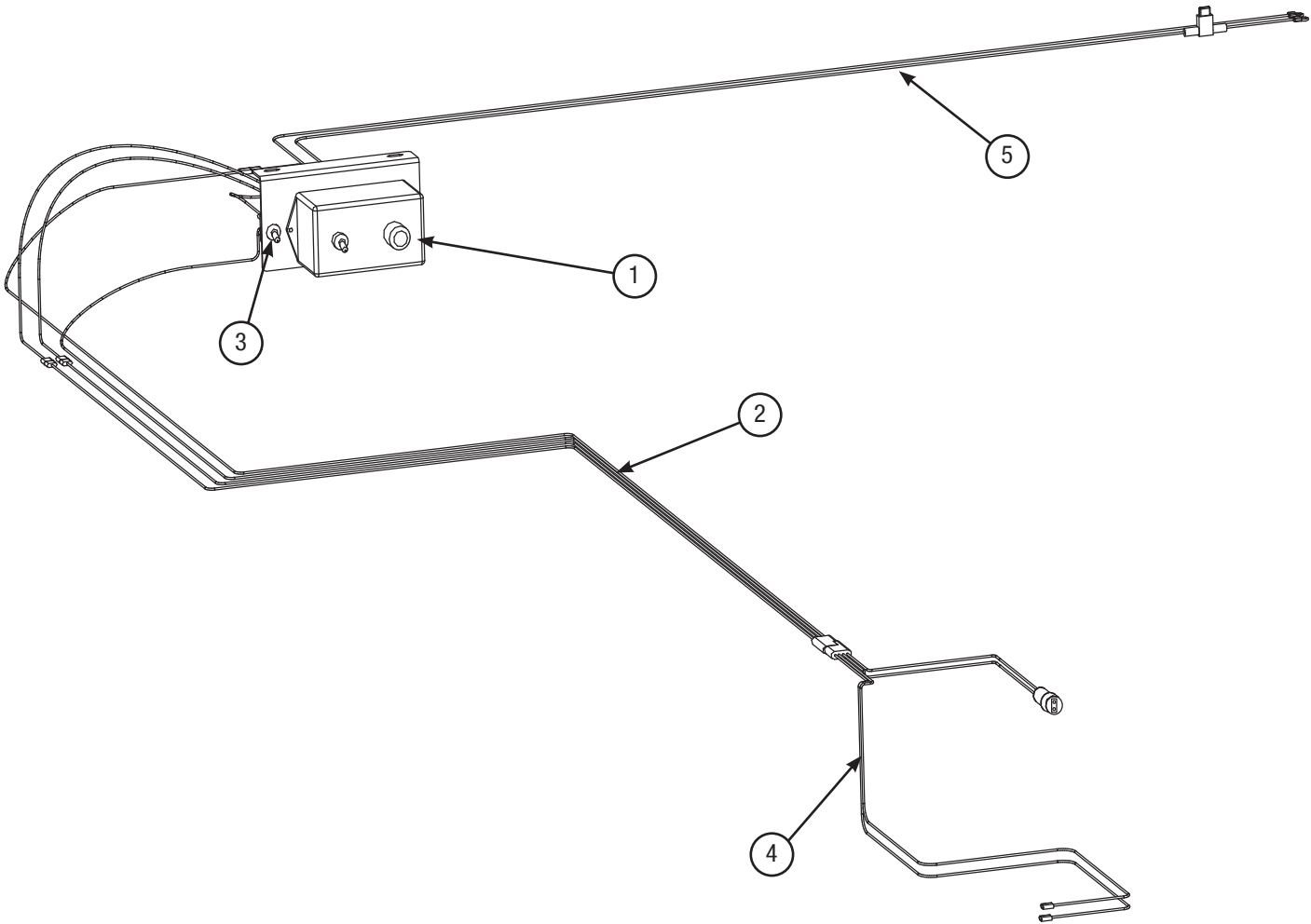
Step 5: Connect harness to the back of the controller and mount to a suitable location. NOTE: You may want to contact customer before mounting controller, some prefer not to have holes drilled into the dashboard. Ty-wrap loose controller harness and move to the engine compartment. Do not mount close 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.

Control and Harness Diagram

Model # SP-100



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.

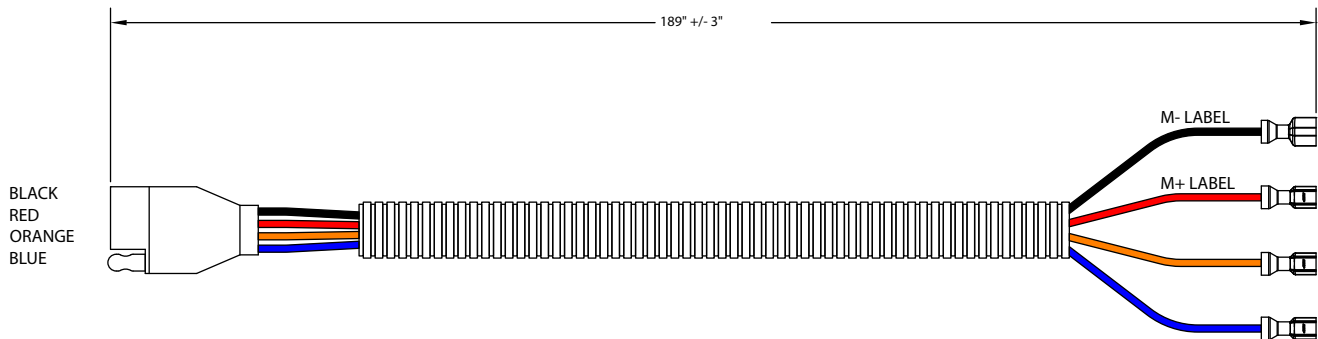
Key	Part No.	Description	Qty
1	D6474	Spreader Control Utility	1
2	T15028	Vehicle Harness 189"	2
3	T15083	Switch Assembly DPDT	1
4	T15084	Spreader Harness 43"	1
5	T15085	Control Power Cable 144"	1

Harness Diagram

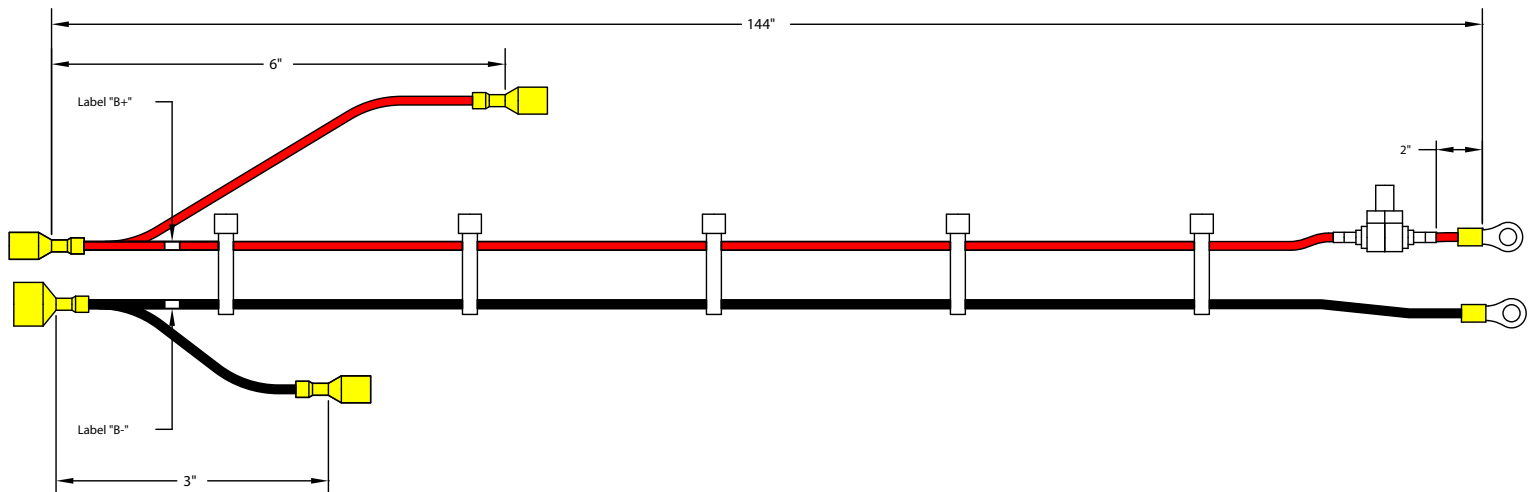


Model # SP-100

T15028 Vehicle Harness



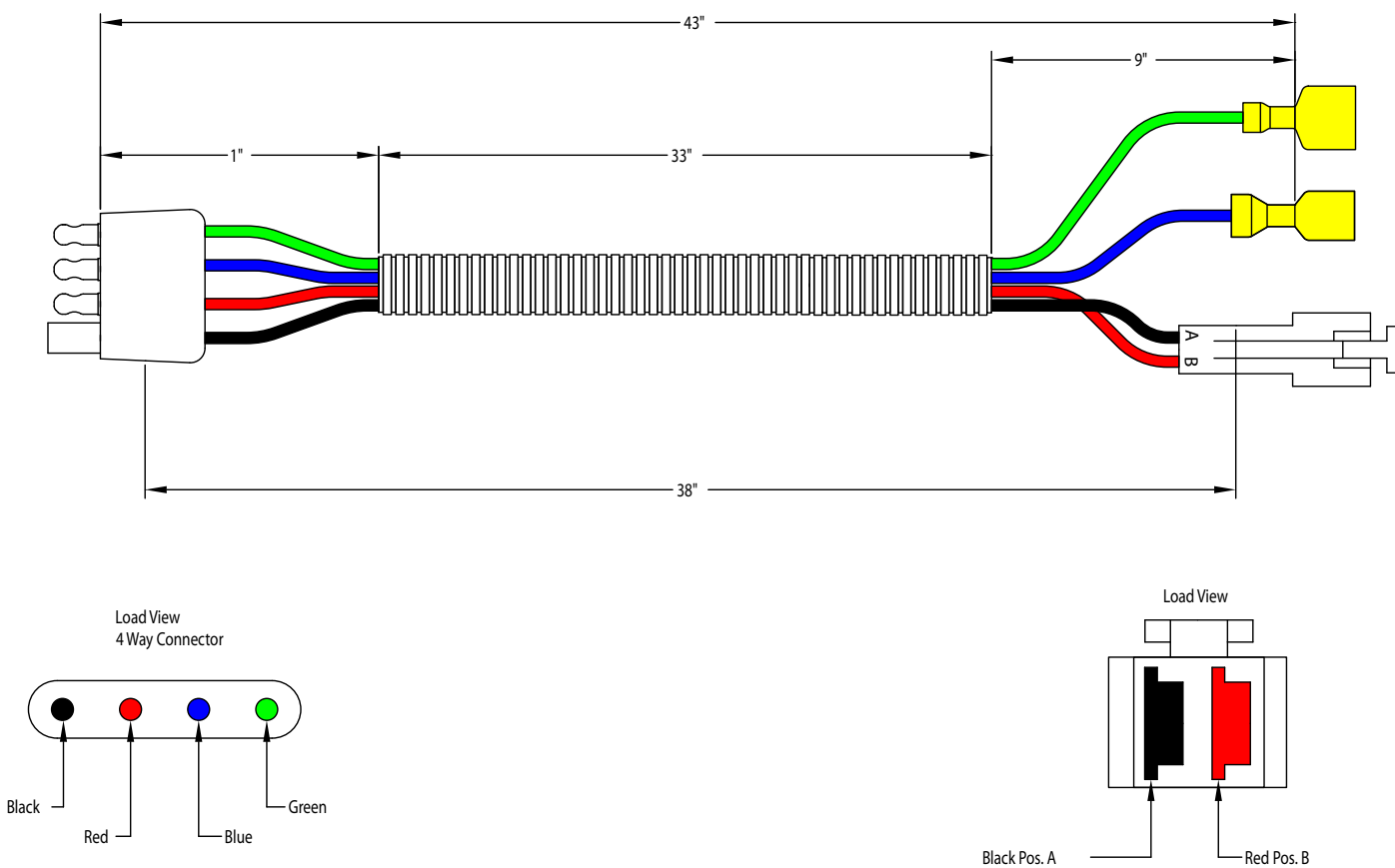
T15085 Battery Harness



Harness Diagram

Model # SP-100

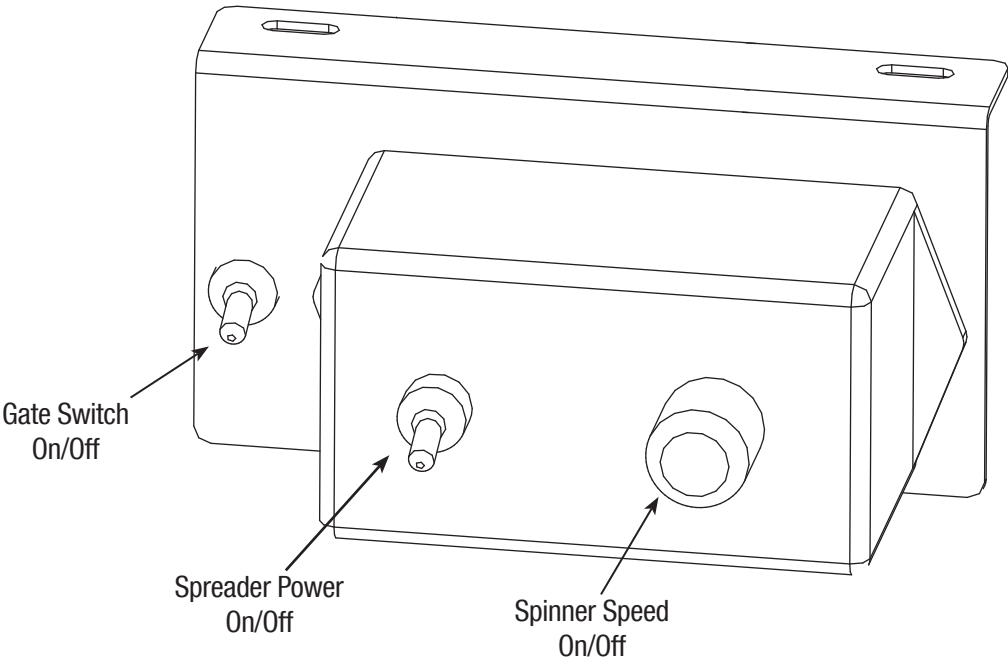
T15084 Spreader Harness



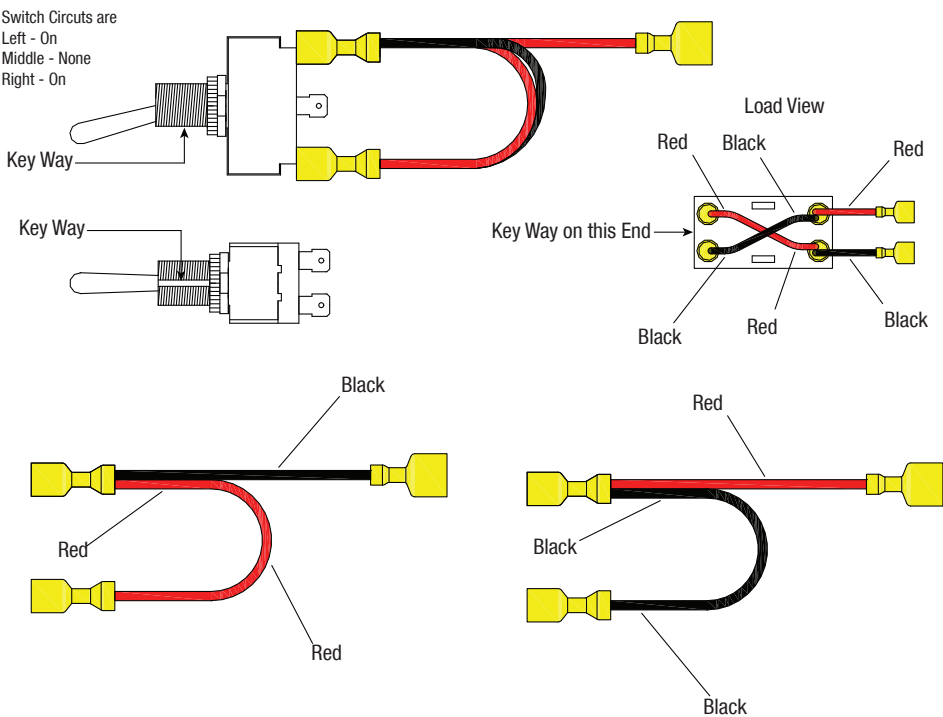
Harness Diagram

Model # SP-100

D6474 Controller



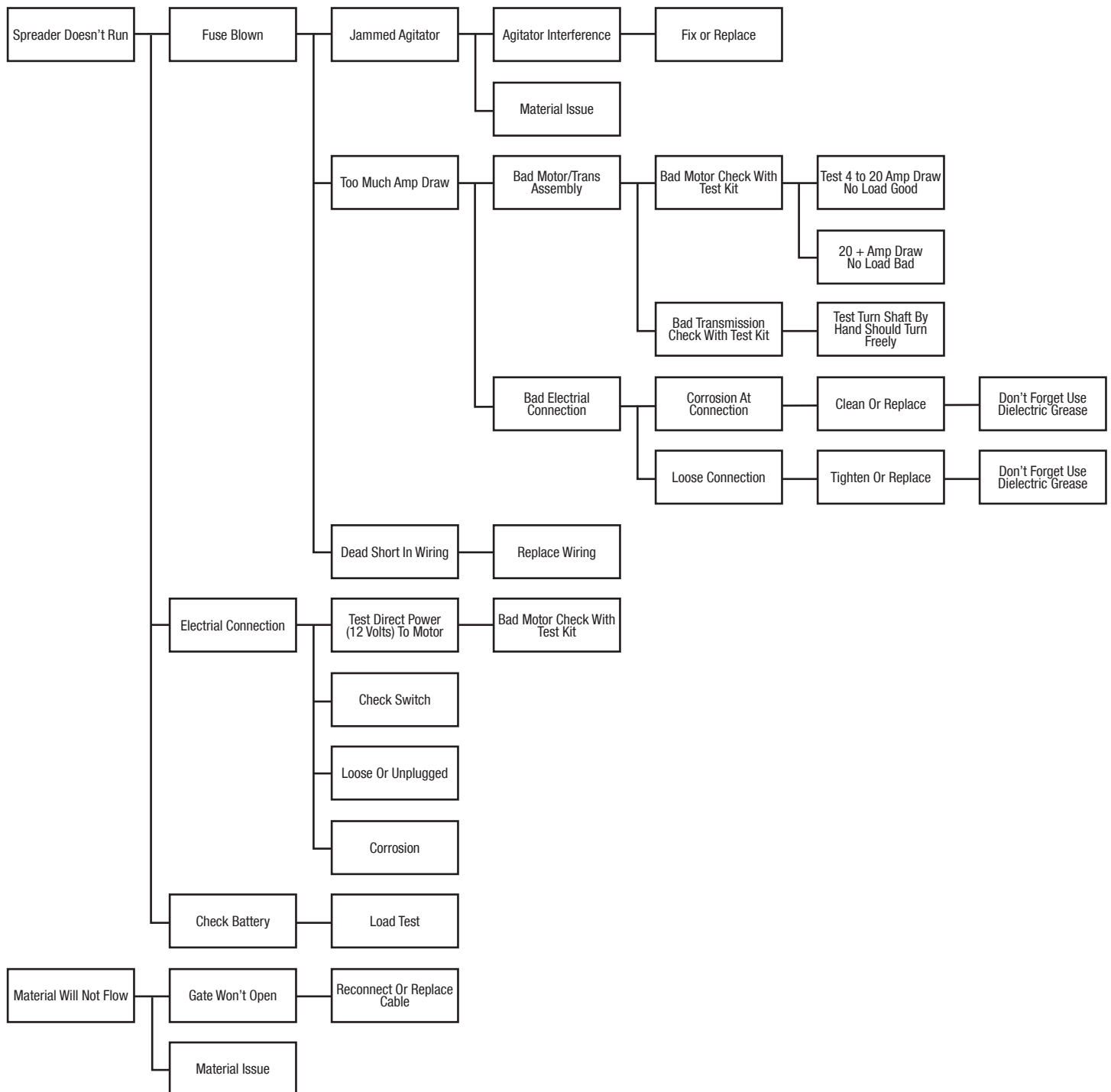
T15083 Switch Assembly



Troubleshooting



Model # SP-100



**Snowex Diagnostic Test Kit (STK-080) 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.

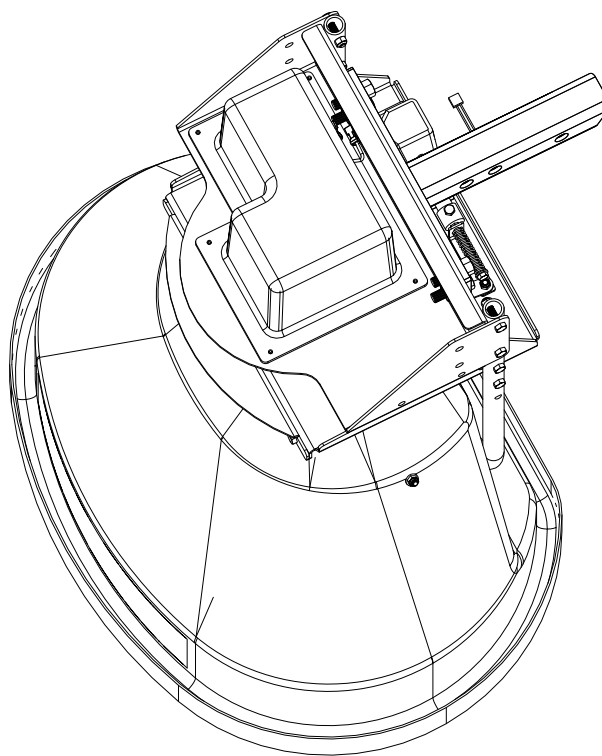
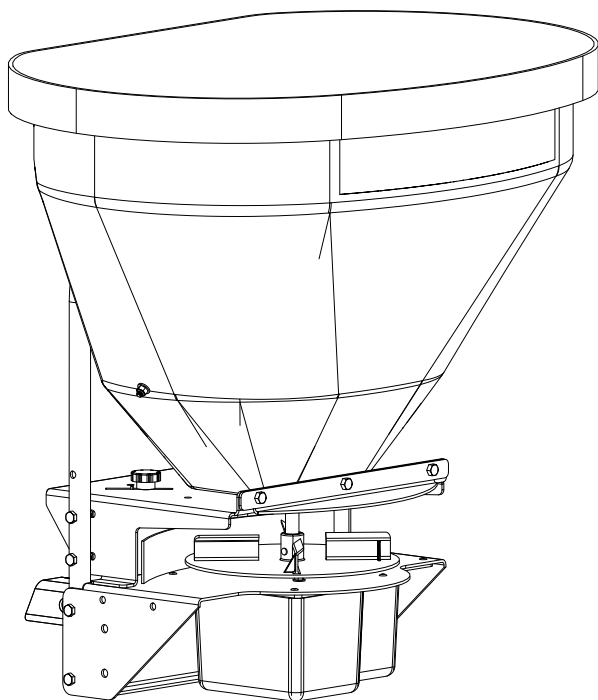
LIMITATION OF LIABILITY

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

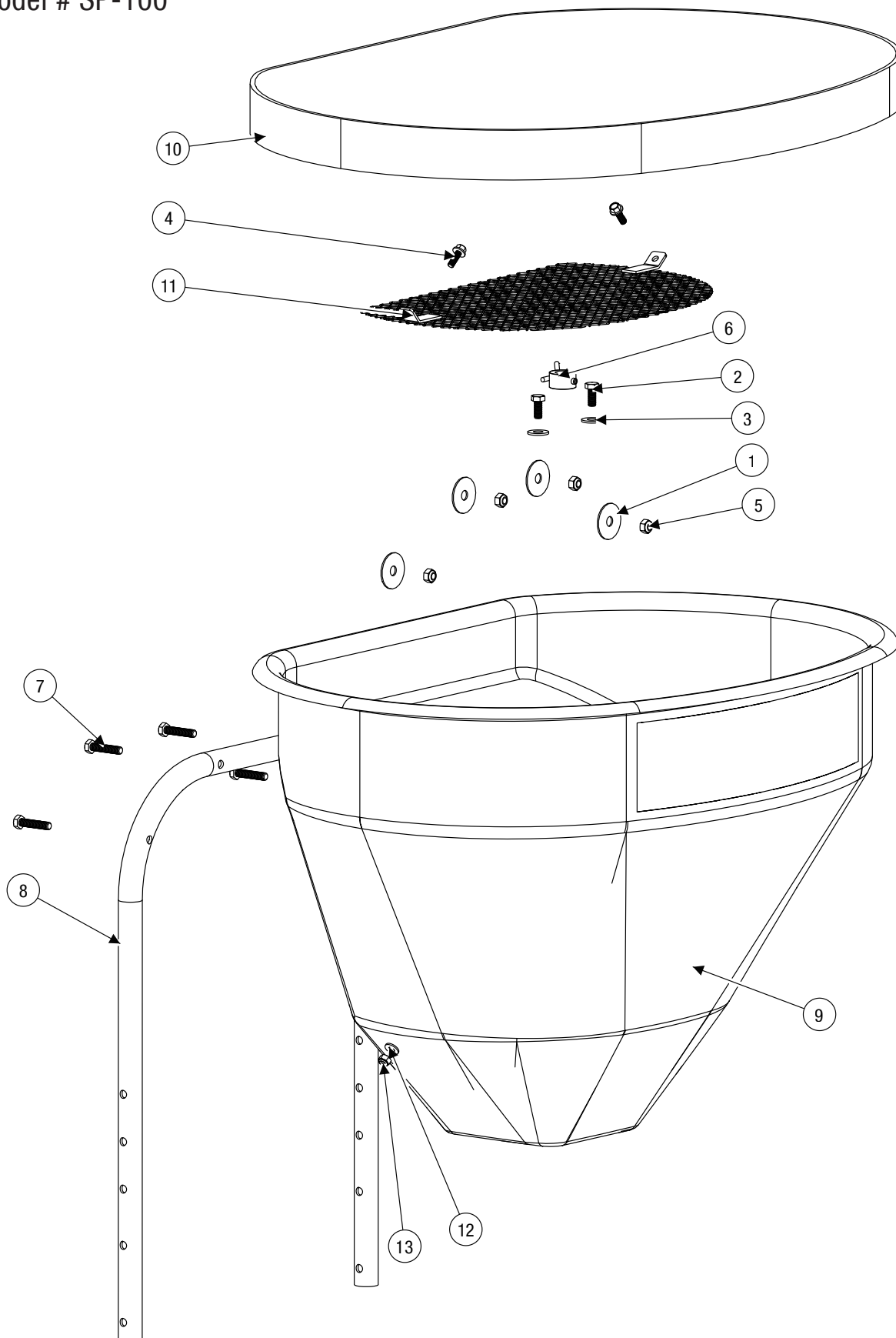
Model # SP-100



Hopper Assembly Parts Breakdown



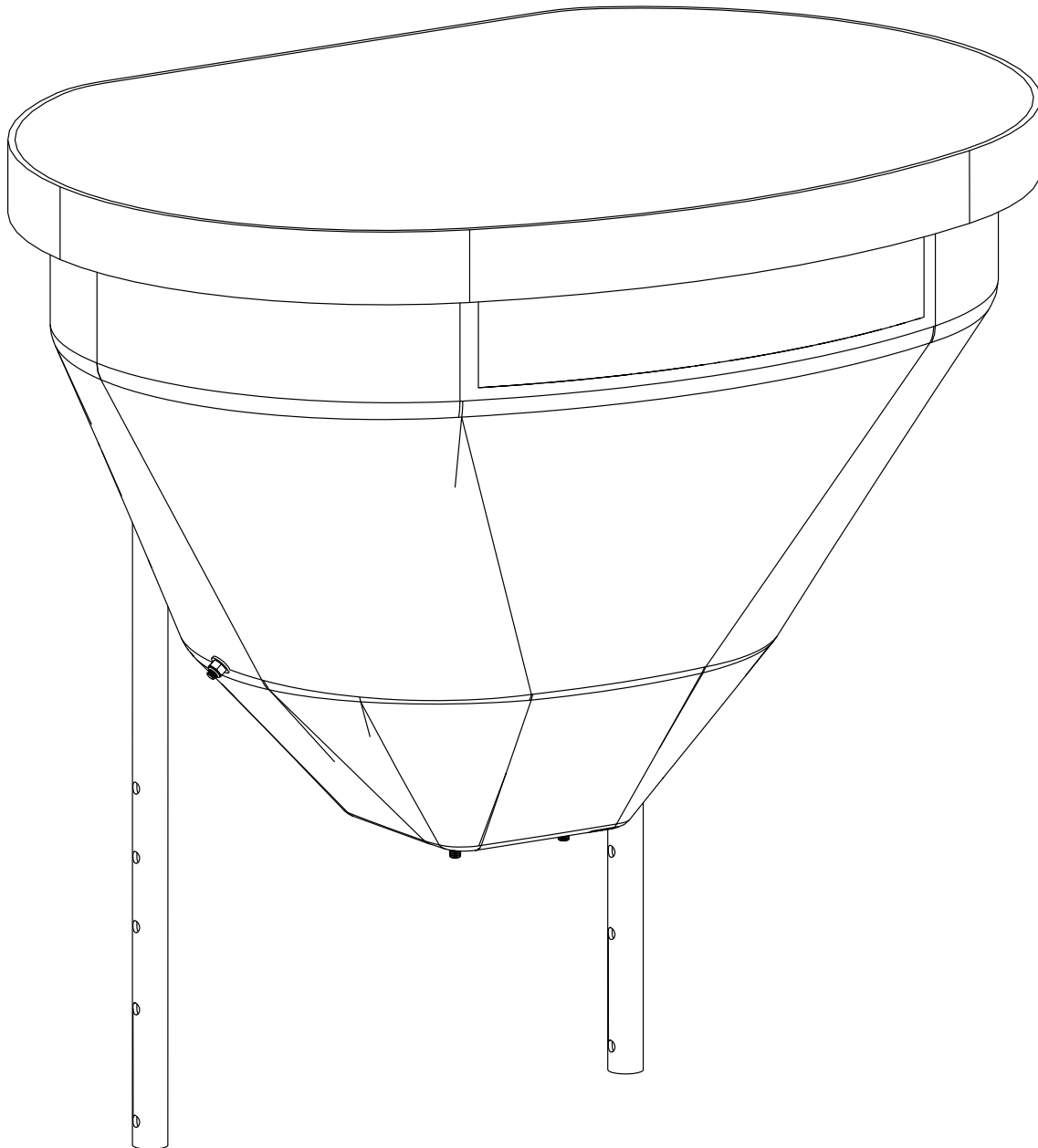
Model # SP-100



Hopper Assembly Parts Breakdown



Model # SP-100



ID #	Part #	Qty
1	D4318	4
2	D5209	2
3	D5949	2
4	D6132	2
5	D6138	4

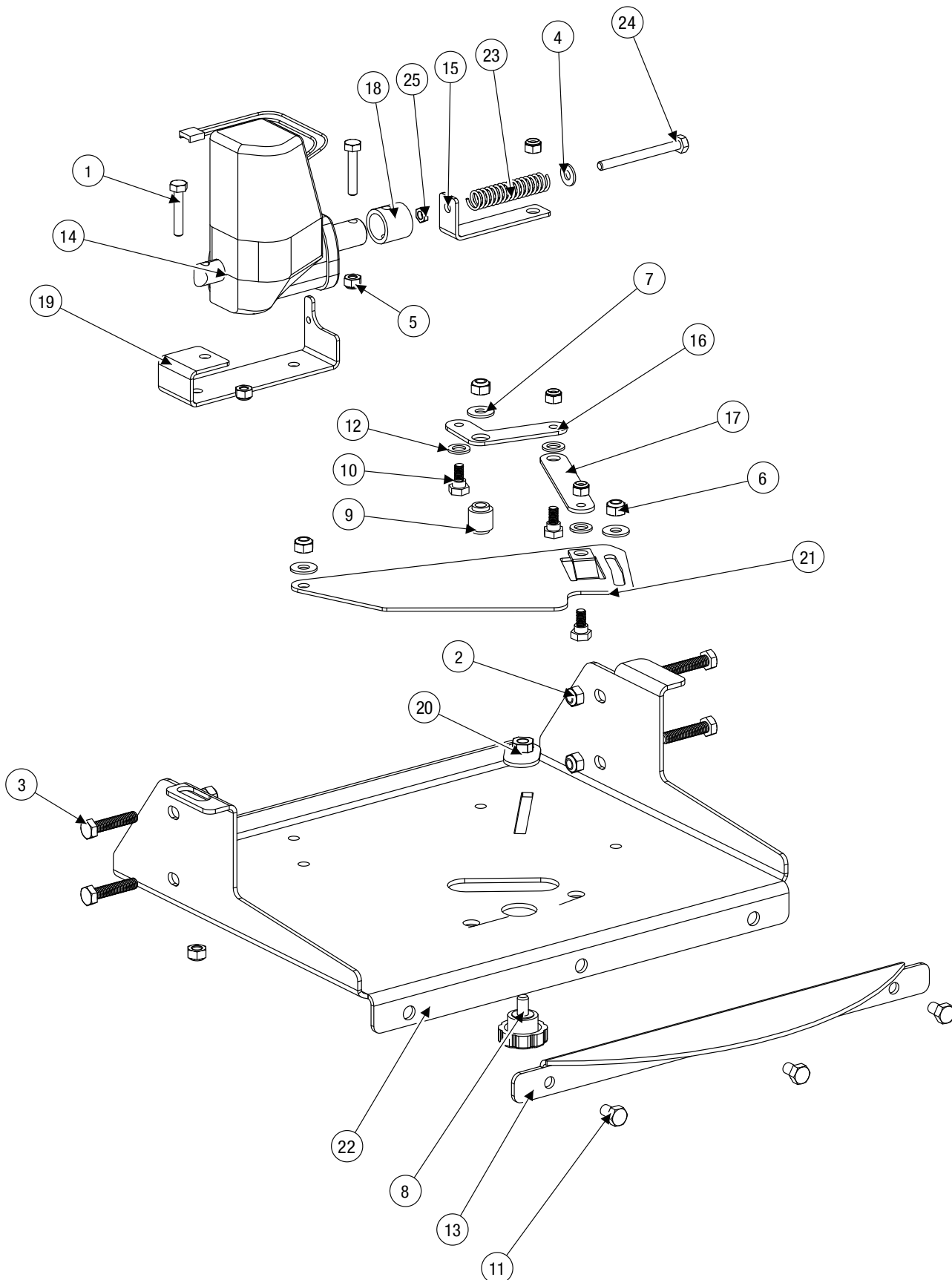
ID #	Part #	Qty
6	D6405	1
7	D6524	4
8	D6712	1
9	D6753	1
10	D7181	1

ID #	Part #	Qty
11	D7269	1
12	T15014	2
13	T15016	2

Gate Assembly Parts Breakdown



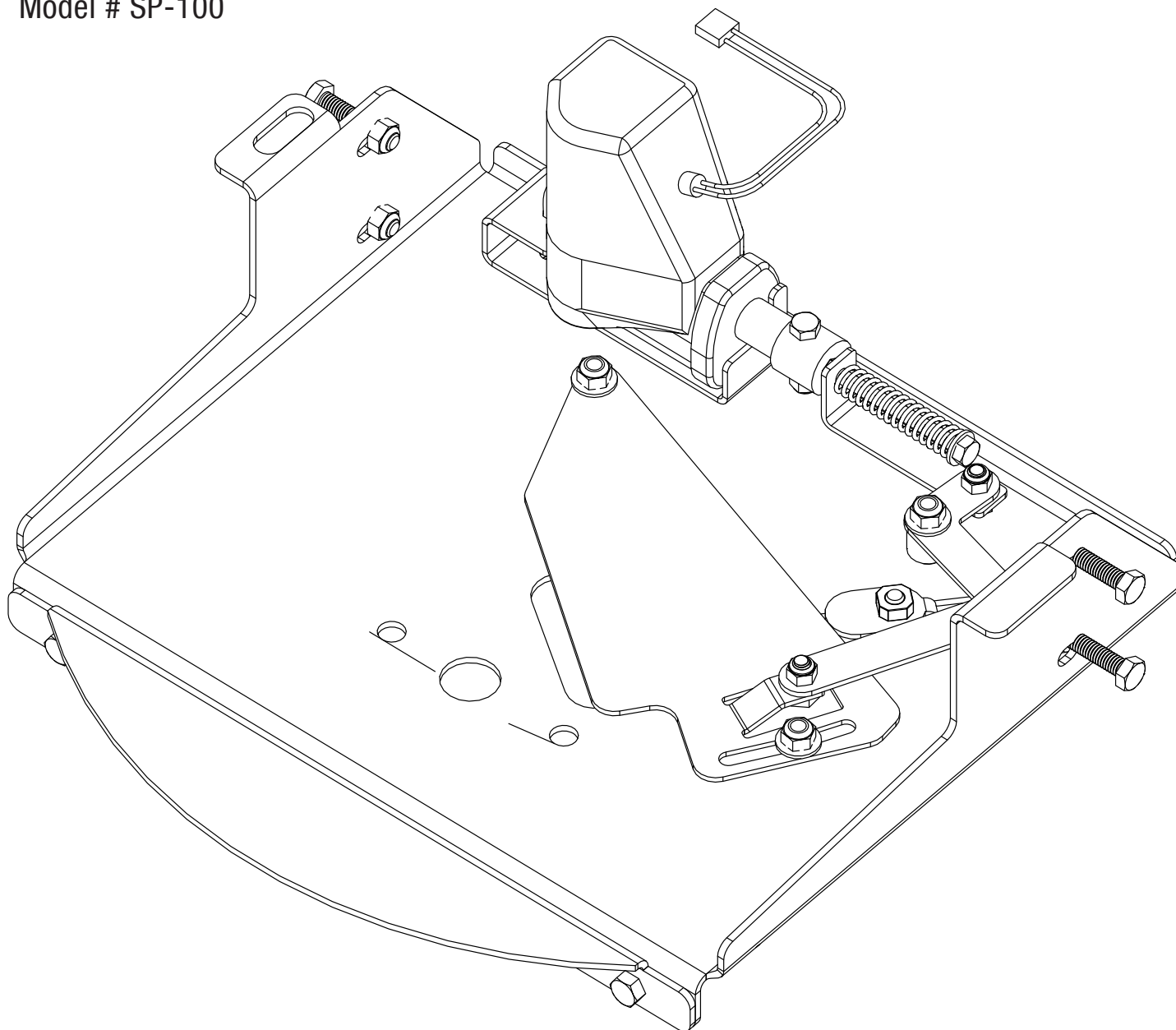
Model # SP-100



Gate Assembly Parts Breakdown



Model # SP-100



ID #	Part #	Qty
1	D5907	2
2	D6138	4
3	D6524	4
4	T15014	1
5	T15016	5
6	T15018	5
7	T15023	3
8	T15029	1
9	T15037	1

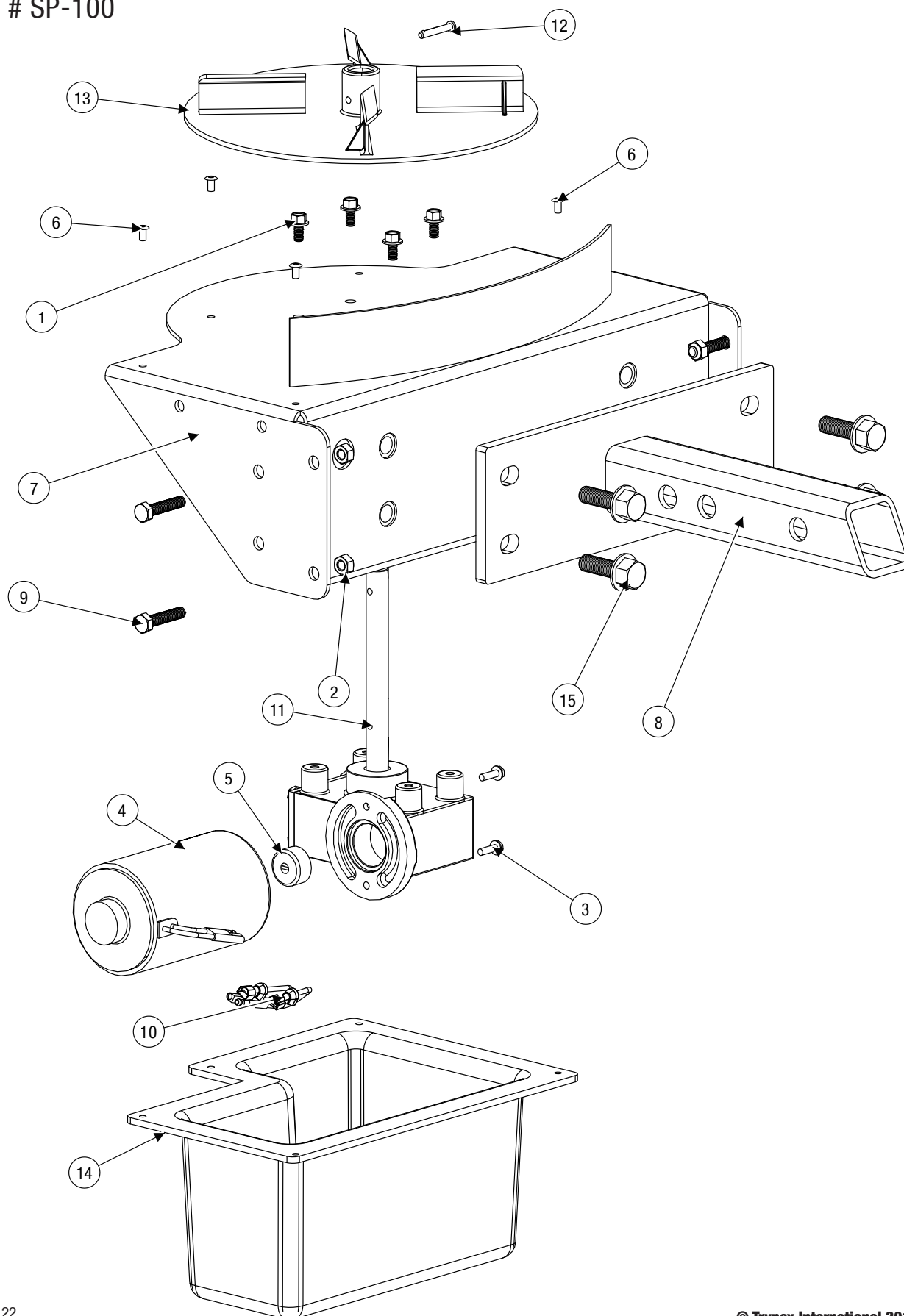
ID #	Part #	Qty
10	T15038	3
11	T15049	3
12	T15074	3
13	T15079	1
14	T15082	1
15	T15086	1
16	T15087	1
17	T15088	1
18	T15089	1

ID #	Part #	Qty
19	T15090	1
20	T15091	1
21	T15092	1
22	T15093	1
23	T15094	1
24	T15095	1
25	T15096	1

Drive Assembly Parts Breakdown



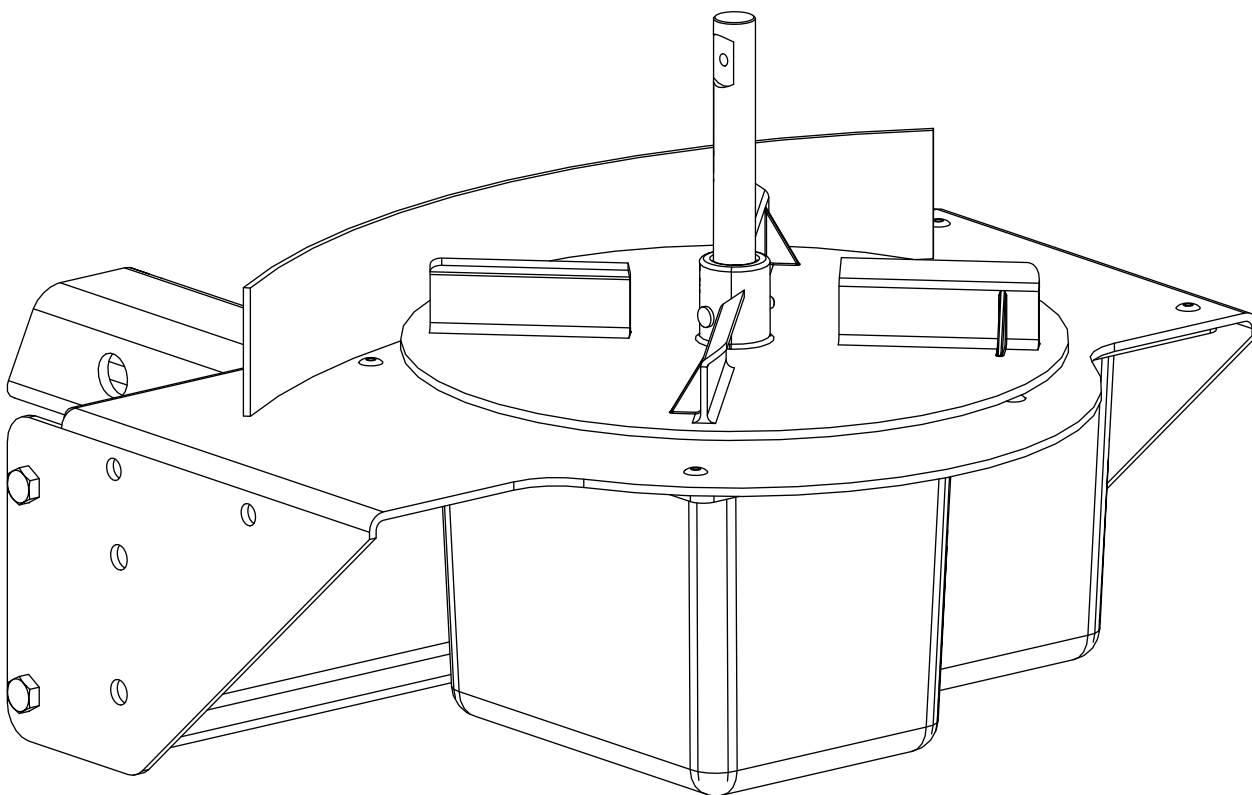
Model # SP-100



Drive Assembly Parts Breakdown



Model # SP-100



ID #	Part #	Qty
1	D6131	4
2	D6138	4
3	D6172	2
4	D6214	1
5	D6232	1
6	D6333	5

ID #	Part #	Qty
7	D6480	1
8	D6485	1
9	D6524	4
10	D6652	1
11	D6715	1
12	D6746	1

ID #	Part #	Qty
13	D6750	1
14	D7153	1
15	T40109	4

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