This Manual Must Be Read Before Operating The Equipment

Owner / Operator’s Manual

LEADERS IN ICE CONTROL

FOR MODEL

SP-100 Accu Pro

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www.snowexproducts.com

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and other pending U.S. and foreign patent applications.
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Have a question or need assistance?
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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. Extra copies of Owner/Operator Manuals can be purchased at your Snowex Dealer.

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.
You have purchased a member of the Snowex family, an advanced concept in multi-purpose spreaders.

Our unique design allows many material spreading applications to be addressed. The modular concept allows multiple hitch applications using the same spreader attachments to meet different vehicle types and varied spreading requirements.

Your Spreader may be attached to many types of vehicles ranging from pick-up trucks, sport utilities, tractors, utility vehicles, etc.

The simplicity of construction using high quality steel and deluxe electrostatic finish requires minimal maintenance.

Our poly hopper with custom engineered frame structure, state-of-the-art electronic controller coupled with hi-torque drive assembly will give you ultimate performance and control when spreading.

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

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 insure 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 may be communicated to you.
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.

**WARNING**

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!

**WARNING**

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

**WARNING**

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

**WARNING**

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

**WARNING**

Never allow children to operate or climb on equipment.

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

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 or mount.

**WARNING**

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

**WARNING**

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

**WARNING**

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

**WARNING**

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

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

**CAUTION**  Never use wet materials, or materials with foreign debris in the SP-100. This unit is designed to handle dry, clean, free-flowing material. Note: Can not spread water softener salt.

**CAUTION**  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**  Always inspect pins, and latches whenever attaching or detaching spreader, and before traveling.

**WARNING**  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 should not be altered without prior written permission from the manufacturer.
Accu Pro
Model #SP-100

Key   Part No.   Description                        Qty.
1     D 6462    5/16" - 18 x 1-3/4" HHCS          14
2     D 6712    Hopper Tube Support              1
3     D 6138    5/16" Lock Nut                   14
4     D 4318    3/8" Fender Washer               4
5     D 6753    2.7 Cu/Ft Seeder Hopper Yellow   1
6     Electric Gate Assembly                      1
7     Drive Assembly                               1
<table>
<thead>
<tr>
<th>Key</th>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>D6133</td>
<td>5/16-18 x 1/2&quot; Hex Bolt</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>D4116</td>
<td>1/2-13 x 1-1/2 Hex Head</td>
<td>4</td>
</tr>
<tr>
<td>3</td>
<td>D6750</td>
<td>10&quot; Plastic Spinner</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>D6131</td>
<td>1/4-20 x 1/2&quot; Serrated Flange SS</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>D6746</td>
<td>3/16&quot; Pin</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>D6333</td>
<td>3/16&quot; Rivet</td>
<td>5</td>
</tr>
<tr>
<td>7</td>
<td>D6480</td>
<td>Trans Mount Weldment</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>D6172</td>
<td>10-32 x 5/8&quot; Serrated Flange Bolt</td>
<td>2</td>
</tr>
<tr>
<td>9</td>
<td>D6715</td>
<td>14.5:1 Ratio Transmission</td>
<td>1</td>
</tr>
<tr>
<td>10</td>
<td>D6232</td>
<td>Motor Drive Coupler</td>
<td>1</td>
</tr>
<tr>
<td>11</td>
<td>D6708</td>
<td>Plastic Bottom Cover</td>
<td>1</td>
</tr>
<tr>
<td>12</td>
<td>D6214</td>
<td>12 VDC Motor</td>
<td>1</td>
</tr>
<tr>
<td>13</td>
<td>D4133</td>
<td>Hitch pin</td>
<td>1</td>
</tr>
<tr>
<td>14</td>
<td>D4135</td>
<td>Hair Pin Clip</td>
<td>1</td>
</tr>
<tr>
<td>15</td>
<td>D6528</td>
<td>1/2-13 Serrated Flange Nut</td>
<td>4</td>
</tr>
</tbody>
</table>
Gate Assembly
Model #SP-100

<table>
<thead>
<tr>
<th>Key</th>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>T-15093</td>
<td>Gate Deck</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>T-15092</td>
<td>Gate Slide</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>T-15086</td>
<td>Actuator Link Arm</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>T-15087</td>
<td>Pivot Arm</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>T-15088</td>
<td>Slide Link Arm</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>T-15082</td>
<td>Actuator</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>T-15095</td>
<td>1/4-20 x 2-3/4 HHCS Stainless Steel</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>T-15094</td>
<td>Compression Spring</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td>T-15074</td>
<td>3/8 SAE Nylon Flat Washer</td>
<td>3</td>
</tr>
<tr>
<td>10</td>
<td>T-15096</td>
<td>1/4-20 Jam Nut Stainless Steel</td>
<td>1</td>
</tr>
<tr>
<td>11</td>
<td>T-15038</td>
<td>Shoulder Bolt</td>
<td>3</td>
</tr>
<tr>
<td>12</td>
<td>T-15029</td>
<td>Adjustment Knob</td>
<td>1</td>
</tr>
<tr>
<td>13</td>
<td>T-15090</td>
<td>Actuator Mounting Bracket</td>
<td>1</td>
</tr>
<tr>
<td>14</td>
<td>T-15018</td>
<td>5/16-18 Nylox</td>
<td>5</td>
</tr>
<tr>
<td>15</td>
<td>T-15089</td>
<td>Actuator Adapter</td>
<td>1</td>
</tr>
<tr>
<td>16</td>
<td>T-15037</td>
<td>Pivot Arm Spacer</td>
<td>1</td>
</tr>
<tr>
<td>17</td>
<td>T-15017</td>
<td>5/16 Nylon Flat Washer</td>
<td>3</td>
</tr>
<tr>
<td>18</td>
<td>T-15016</td>
<td>1/4-20 Nylox Stainless Steel</td>
<td>5</td>
</tr>
<tr>
<td>19</td>
<td>T-15091</td>
<td>Gate Stop</td>
<td>1</td>
</tr>
<tr>
<td>20</td>
<td>T-15079</td>
<td>CE Guard</td>
<td>1</td>
</tr>
<tr>
<td>21</td>
<td>T-30218</td>
<td>1/4-20 x 1-1/4 Phil Pan Head MS 18-8 SS</td>
<td>2</td>
</tr>
<tr>
<td>22</td>
<td>D-6131</td>
<td>1/4-20 x 1/2 Serrated Flange Bolt</td>
<td>3</td>
</tr>
<tr>
<td>23</td>
<td>T-30726</td>
<td>1/4-20 x 1-1/2 Hex Head Stainless</td>
<td>1</td>
</tr>
</tbody>
</table>
**Electrical System Overview**

**Model# SP-100**

---

**Key Part No. Description Qty.**

<table>
<thead>
<tr>
<th>Key</th>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>T 15085</td>
<td>Battery Harness</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>T 15084</td>
<td>Spreader Harness</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>T 15028</td>
<td>Vehicle Harness</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>D 6474</td>
<td>Control</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>T 15083</td>
<td>Switch Assembly</td>
<td>1</td>
</tr>
</tbody>
</table>
Switch Assembly
Model # SP-100

Switch Circuits are
Left-On
Middle—None
Right-On

Key Way

Key Way on this End

Load View

Key Way
Operating the Spreader

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

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

<table>
<thead>
<tr>
<th>Material</th>
<th>Weight Per Cubic Ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rock Salt</td>
<td>35-40 lbs.</td>
</tr>
</tbody>
</table>

• Be sure to comply with manufacturer’s maximum gross vehicle weight ratings.
• Warning – Never leave materials in hopper for long periods of time as salt is hygroscopic and will attract atmospheric moisture and harden up.

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

SPREADER OPERATION
SP-100 SPREADER
• Comes standard with electronic speed control with electric gate flow control kit.
• To start, select proper gate stop position, desired starting speed and switch control power 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.
Whenever service is necessary, your local Snowex Dealer knows your Spreader best. Take your Spreader to your local dealer for any maintenance or service needs on your unit. If this is not possible, the Troubleshooting Guide below may assist you in locating the problem.

Warning: First read all warning instructions and safety messages before servicing your spreader.

Preliminary Checks
- Be sure all electrical connections are tight and clean.
- Be sure nothing is jammed in the hopper.

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>POSSIBLE CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor doesn’t run.</td>
<td>Loose electrical connections.</td>
<td>Check all connections.</td>
</tr>
<tr>
<td></td>
<td>Blown Fuse.</td>
<td>Replace fuse.</td>
</tr>
<tr>
<td></td>
<td>Motor Seized.</td>
<td>Replace motor.</td>
</tr>
<tr>
<td>Controller shut down.</td>
<td>Jammed auger.</td>
<td>Carefully clear jammed material.</td>
</tr>
<tr>
<td></td>
<td>Poor electrical connections.</td>
<td>Clean or replace connectors.</td>
</tr>
<tr>
<td></td>
<td>Use dielectric grease.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Electrical short.</td>
<td>Check electrical connections.</td>
</tr>
<tr>
<td></td>
<td>Check for bare wires.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Controller failure.</td>
<td>Replace controller.</td>
</tr>
<tr>
<td>Material not flowing from hopper.</td>
<td>Empty hopper.</td>
<td>Fill hopper.</td>
</tr>
<tr>
<td></td>
<td>Wet material.</td>
<td>Replace with dry material.</td>
</tr>
<tr>
<td></td>
<td>Frozen or coarse material.</td>
<td>Replace material.</td>
</tr>
<tr>
<td></td>
<td>Spinner not turning.</td>
<td>Check drive assembly.</td>
</tr>
<tr>
<td></td>
<td>Auger loose on shaft.</td>
<td>Tighten locking bolt on the side of the auger. There is a flat machined on the driver shaft. Align the auger with this flat and tighten the bolt.</td>
</tr>
<tr>
<td>Gate wont open</td>
<td>Frozen/Rusted linkage</td>
<td>Lubricate with Moly based product</td>
</tr>
<tr>
<td>Solenoid won’t engage</td>
<td>Check connections</td>
<td>Replace/Repair</td>
</tr>
<tr>
<td></td>
<td>Check switch</td>
<td>Replace/Repair</td>
</tr>
<tr>
<td></td>
<td>Unit burned out</td>
<td>Replace</td>
</tr>
</tbody>
</table>
Troubleshooting

Spreader SP-100

- **Spreader Doesn't Run**
  - **Fuse Blown**
  - **Jammed Agitator**
  - **Agitator Interference**
  - **Fix or Replace**
    - **Material Issue**
      - **Too Much AMP Drawn**
        - **Bad Motor/Trans Assembly**
          - **Test Good No Load 4-20 Amps**
            - **Test Bad 20+ Amps**
              - **Bad Transmission**
                - **Check with Test Kit**
                  - **Test Turn Shaft By Hand Should Turn Freely**
                    - **Bad Electrical Connection**
                      - **Clean or Replace Use Dielectric Grease**
                        - **Don't Forget Use Dielectric Grease**
                    - **Corrosion at Connection**
                      - **Clean or Replace**
                        - **Don't Forget Use Dielectric Grease**
                    - **Loose Connection**
                      - **Tighten or Replace**
                        - **Don't Forget Use Dielectric Grease**
          - **Material Issue**
            - **Test Good No Load 4-20 Amps**
              - **Test Bad> 20+ Amps**
                - **Bad Transmission**
                  - **Check with Test Kit**
                    - **Test Turn Shaft By Hand Should Turn Freely**
                      - **Bad Electrical Connection**
                        - **Clean or Replace Use Dielectric Grease**
                          - **Don't Forget Use Dielectric Grease**
                    - **Corrosion at Connection**
                      - **Clean or Replace**
                        - **Don't Forget Use Dielectric Grease**
                    - **Loose Connection**
                      - **Tighten or Replace**
                        - **Don't Forget Use Dielectric Grease**
        - **Bad Motor**
          - **Check with Test Kit**
            - **Test Direct Power (12 Volts) to Motor**
              - **Check Switch**
                - **Loose or Unplugged**
                  - **Corrosion**
                    - **Check Battery**
                      - **Load Test**
                        - **Reconnect or Replace Cable**
                          - **Material Issue**
                            - **Gate Won't Open**
                              - **Material Will Not Flow**
      - **Dead Short in Wiring**
        - **Replace Wiring**
          - **Electrical Connection**
            - **Test Direct Power (12 Volts) to Motor**
              - **Check Switch**
                - **Loose or Unplugged**
                  - **Corrosion**
                    - **Check Battery**
                      - **Load Test**
                        - **Reconnect or Replace Cable**
                          - **Material Issue**
                            - **Gate Won't Open**
                              - **Material Will Not Flow**
Spreader Maintenance

- 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 – Disconnect electricity to spreader before servicing.

- 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 – When replacing parts, use only original manufacturer’s parts. Failure to do so will void warranty.

- 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.

- CAUTION – When pressure washing motor enclosure area, stay at least 36” away from motor enclosures.

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

- 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.**
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.
Warranty Registration and Customer Survey

To initiate the warranty on your new SnowEx spreader and assure prompt warranty service, please complete the following warranty registration and customer survey, sign and mail it back to the factory within 30 days of purchase.

1) Date of Purchase: ________________________________

2) Name: ______________________________________
   Address: ______________________________________
   Phone: ________________________________________

3) SnowEx Model Purchased: ______________________ Serial Number: ______________________

4) Is this your first Trynex Spreader?  ☐ Yes  ☐ No

5) What type of vehicle are you using with your Spreader?
   Make ______________________ Model ______________________ Year ________________

6) What type of material are you using in your spreader? ________________________________

7) SnowEx Dealer Name: ______________________
   SnowEx Dealer Address: ______________________
   SnowEx Dealer Phone: ______________________

8) Does your Trynex Dealer stock Trynex replacement Parts?  ☐ Yes  ☐ No  ☐ I don't know

9) Do you feel your Trynex Dealer sold you the correct product for your needs/application?  ☐ Yes  ☐ No

10) How would you rate your overall satisfaction with your SnowEx Dealer?
   ☐ Very Satisfied  ☐ Satisfied  ☐ Somewhat Satisfied  ☐ Somewhat Dissatisfied  ☐ Dissatisfied  ☐ Very Dissatisfied

11) How would you rate your overall satisfaction with your SnowEx Product?
   ☐ Very Satisfied  ☐ Satisfied  ☐ Somewhat Satisfied  ☐ Somewhat Dissatisfied  ☐ Dissatisfied  ☐ Very Dissatisfied

12) Would you purchase another Trynex Product?  ☐ Yes  ☐ No

13) If you would like to receive E-Mail ALERTS for new products, bulletins or special promotions please supply address: ____________________________________________

14) Please use the space below to convey your comments and/or suggestions.

   ____________________________________________
   ____________________________________________

   ____________________________________________

   ____________________________________________

15) Owner's signature:  X ______________________

(Note: I have read the owner's manual and all safety precautions and I understand that this equipment could be dangerous if not operated with care and under the proper conditions.)