

**This Manual Must Be Read Before Operating The Equipment**

# **Owner / Operator's Manual**



**LEADERS IN ICE CONTROL**

**FOR MODELS**

**STX-550**



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800-725-8377  
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**Customer Copy**

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**Have a question or need assistance?**

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# Warranty Information

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Please record the following information on this page for quick reference...

Model Number \_\_\_\_\_

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.

Please register your system for warranty at your local SnowEx Dealer. This will also give us a record so that any safety or service information can be communicated to you.

The serial number can be found on the back of the Salt Traxx Control.

<p><b>MODEL# D6655</b> <b>SERIAL# 0000</b> <b>TRYNEX INTERNATIONAL</b> <b>1-800-725-8377</b></p>
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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 product.

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:



**(RED)**  
Information that, if not carefully followed, can cause death!



**(YELLOW)**  
Information that, if not carefully followed, can cause minor injury or damage to equipment



**(ORANGE)**  
Information that, if not carefully followed, can cause serious personal injury or death!



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!

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

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

Never allow children to operate or climb on equipment.

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

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

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

# Master Parts List

Model # STX-550

D6655 Salt Traxx Control



F50610 Salt Traxx Adapter



D6656 Calibration Container



F50611 Salt Traxx Spreader Harness



D6657 Snowex Flash Drive



F50615 Salt Traxx Vehicle Harness



## Installation Instructions

Model # STX-550

It is recommended that the installation be performed by your Snowex Dealer

### Tools and Materials List:

Long Flat Screwdriver

5/16" Nut Runner

5/16" Wrench

Drill

1-1/4" Wrench

1/2" Socket

Socket Adapter

Needle-Nose Pliers

Wire Cutters

#2 Phillips Screw Bit

Ty-Wraps and Zip Ties

Step 1: Unplug the Spreader Power Plug on bumper.

Step 2: Put Spinner Drive into 'Down' position.

Step 3: Remove Spinner Drive Latch Pin.

Step 4: Remove the Auger Extension Cover.

Step 5: Remove the Cover of the Power Box.



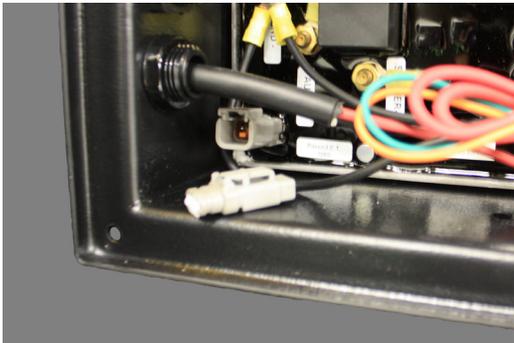
## Installation Instructions

### Model # STX-550

Step 6: Remove the Plug from the top hole of the rearward side of control.



Step 7: Remove the Connector Cap located in the lower left-hand corner of Control Module Box.



Step 8: Slide the Salt Traxx Spreader Harness [F50611] into the hole from which the plug was removed (Step 6). Slide Harness Restraint Nut [D6828] over the end.



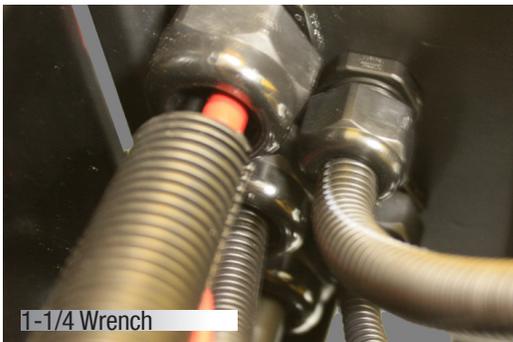
## Installation Instructions

Model # STX-550

Step 9: Plug the Harness into the Connector located in the lower left-hand corner of the Control Module Box.



Step 10: Tighten the Harness Restraint of the Salt Traxx Harness. Re-Install Control Box Cover and Auger Extension Cover.



5/16" Nut Runner...  
Drill...  
Socket Adapter...  
1/2" Socket...

1-1/4 Wrench

Step 11: Route harness down toward bumper, following the other harnesses, zip tie [D6822] to other wires.

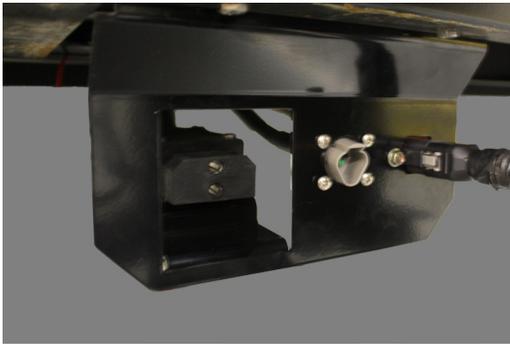


Zip Ties...  
Wire Cutters...

## Installation Instructions

Model # STX-550

Step 12: Attach the Vehicle Harness [F50615] to the bumper bracket with the screws and nuts from the Hardware Kit.



#2 Phillips Screw Bit...

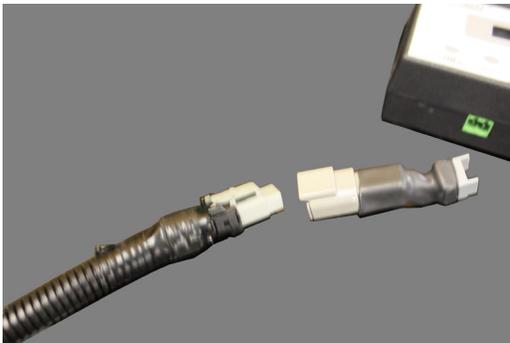
Drill...

5/16" Wrench...

Hardware Kit

Step 13: Route Vehicle Harness along frame. Zip tie it to the existing spreader harness. Route into Cab with the Spreader's Data Cable.

Step 14: Plug the Salt Traxx Adapter [F50610] onto the end of Salt Traxx Vehicle Harness.



Step 15: Plug in Salt Traxx. Mount to a suitable location with provided hook-and-loop tape. Begin Calibration and Programming as outlined in the Operating Instructions.



# Operating Instructions



Model # STX-550

## Salt Traxx Operation

Turn unit on. If the unit has not been calibrated it will display "CALIBRATE ME" (See Setup). The Start/Stop button is functional and spreading may be performed but not recorded. After the unit has been calibrated Customer number 0 will be displayed and the unit may be operated.

### Operation without a Flash Drive

A flash drive is not required for operation. Only customer 00 (no customer) is available. Material used will be displayed, but not recorded. Press the Down button to clear the material used.

### Operation with a Flash Drive

The flash drive may be inserted when the Salt Traxx unit is either in Standby or On. The flash drive should only be removed while the Salt Traxx unit is in Standby.

Insert the USB flash drive provided that contains a SNOWEX directory with a correctly formatted "sales orders.txt" file. (See "Initializing a Flash Drive for Use with Salt Traxx" below.) The Salt Traxx unit will create a "work orders.txt" file if it does not exist on the flash drive or append to an existing "work orders.txt" file.

NOTE: Salt Traxx appends new work to the "work orders.txt" file on the flash drive. To start a new "work orders.txt" file the old file must be renamed or deleted from the flash drive. (It is suggested that a copy be made before deleting the work order file.)

Press the Up or Down buttons to select a customer. Press and hold the Up or Down button to engage Auto-Repeat and rapidly scroll through the list of customers. The line number and the customer identifier are displayed. Line number 00 may be used if there is no entry corresponding to the desired customer. It will still be recorded on the flash drive.

Press the Start/Stop button to start recording data. Time and materials used will be accumulated. The spreader must be stopped before another customer may be selected. When Start/Stop is pressed after changing customers a new data record is opened and a start time is recorded. It will remain open until a new customer is selected or 30 minutes with the spreader stopped have elapsed. The stop time is updated each time the spreader is stopped as long as the record is open.

Whenever the customer is changed the time and material data for the prior customer is saved and the data record for the prior customer is closed. If there is no spreading activity for 30 minutes the record is automatically closed. Putting the Salt Traxx unit in Standby will close the current data record and prepare the flash drive for removal.

Press the On/Standby button to place the unit in standby before removing the USB flash drive.

NOTE: Care must be taken so that the time and material information is written to the flash drive before it is removed. The Salt Traxx unit makes an effort to keep the information on the flash drive up to date, but unexpected removal of the flash drive may result in lost or corrupted data. The data record for the current customer is automatically saved every 5 minutes if there has been any change to the data.

## Setup

Setup is entered by pressing the Setup button while not currently spreading.

Press the Up or Down buttons to select an action. Press the Setup button to perform the action. The actions appearing in the Setup menu are:

- Next
- Material (Only available after the unit has been calibrated)
- Clock
- Calibrate
- Exit

# Operating Instructions

Model # STX-550

## Material Selection

Different rock salt sizes or mixes may flow and pack into the spreader auger at different rates. The Salt Traxx unit must be calibrated for the material(s) you use. It can store calibration settings for three different materials. The Material action is used to select a calibration value for the material in the hopper. There are three settings (1, 2, 3) to choose from. Only those settings which have been calibrated will appear (see Setup, Calibration Process). The current setting will have the cursor positioned under the setting. Use the Up or Down keys to move the cursor and choose a setting. Use the Setup key to activate the setting and exit Material Selection.

## Clock Setting

Choose the Clock action to enter clock set mode.

Press the Up or Down buttons to adjust the highlighted Date/Time field. Press and hold the Up or Down button to engage Auto-Repeat to rapidly change the highlighted value. Press the Setup button to move to the next field. If a field is skipped or needs further changes the Setup button may be pressed repeatedly until the desired field is highlighted.

After the time and date have been adjusted press the Setup button until Exit or Save is highlighted. Exit will discard the changes. Save will keep the changes. Press either the Up or Down button to save or exit.

## Calibrating the Salt Traxx unit

Choose the Calibrate action to enter Calibration Mode.

Press the Up or Down button to select the desired Calibration Table (1, 2, 3) or Exit.

Press the Setup button to start the calibration process for the highlighted table or Exit.

## Calibration Process

Loosen Spinner Lock Bolt and remove Spinner Hub from Motor Shaft.

Truck must be running and vibrator on during calibration.

If something goes wrong during calibration or you wish to discard the calibration press the On / Standby button prior to selecting "DONE". The calibration process will stop and the results will be discarded.

Initially, "SPEED 10 NEXT" will be displayed.

Set the Spreader control unit "Material Flow Rate" to minimum (10) and switch the Spreader on and run until auger is fully charged. Place Calibration Container under chute. Press the Start/Stop button on the Salt Traxx unit. Run the spreader until the correct amount of material has been dispensed. The Spreader control may be turned on and off multiple times to fill container evenly. The container must be filled 3 times for a total of 3 cubic feet. Each time the Salt Traxx is stopped a RAW value will be displayed. This value is related to the number of revolutions the auger in the spreader has made.

Press the Setup button to move to the Next stage of Calibration. "SPEED 50 DONE" will be displayed.

Set the Spreader "Material Flow Rate" to half way (knob pointing straight up, halfway in between the "+" and "-" symbols). After the spreader hard start sequence has ended adjust the "Material Flow Rate" to exactly 50. The container must be filled 3 times for a total of 3 cubic feet, starting and stopping as needed.

Press the Setup button to select DONE and complete the calibration process. If this is the first calibration then this calibration will become the active Material Selection. (See Setup, Material Selection.)

If a final RAW value is outside the calibration range of the Salt Traxx then "OUT OF RANGE" will be displayed and the calibration process will stop. Press the Setup button to acknowledge the message and return to normal operation. If "OUT OF RANGE" occurs a void may have occurred during calibration, your material may not flow the same as the recommended materials, or the wrong amount may have been dispensed. Contact your dealer or the factory for further assistance.

# Operating Instructions



## Model # STX-550

### Managing the Output Files

Use Microsoft Excel to open the "Invoice .xlt" template provided on the supplied flash drive. Depending on the security settings for Excel the template will: 1) automatically attempt to import the "work orders.txt" file, 2) Ask permission to import the file or, 3) wait for the user to manually import the file. In all cases direct Excel to the location of the "work orders.txt" file on the flash drive. The template will format the data and compute the elapsed hours and minutes used in each work order. The data may then be saved as a regular Excel workbook and manipulated like any other workbook. (e.g. Sorting by Customer ID or Line number to bring all stops at the same customer together in the file or export of the data to another program for invoice printing.) Sheet 1 contains a formatted version of the data. Sheet 2 of the workbook contains the raw data.

The columns in the template are:

- 1) Line numbers of the sales orders file containing the customer information. Line 0 means no customer was selected while the spreading took place.
- 2) Job start date and time,
- 3) Job stop date and time,
- 4) Elapsed time computed by Excel from 2 and 3 above,
- 5) Material used (in cubic feet),
- 6) Customer ID copied from the sales orders file,
- 7) Any other columns copied from the sales order files.

NOTE: Salt Traxx appends new work to the "work orders.txt" file on the flash drive. To start a new "work orders.txt" file the old file must be renamed or deleted from the flash drive. (It is suggested that a copy be made before deleting the work order file.)

### Setting up the Sales Order File

The "sales orders.txt" file can be easily created with Microsoft Excel. The file must be saved as tab delimited text (TEXT (tab delimited) in the Excel program, "save as" dialog).

The Salt Traxx unit will only use the first 99 rows in this file.

The first column is the Customer ID or abbreviation and is required. The first eight characters from this column are displayed by the Salt Traxx unit. All other columns are optional. Up to 252 columns may be used.

The second column is typically the full customer name and the third column is typically the customer address. Additional columns may be used as desired. Suggested uses are phone numbers, contact names, driving directions, and special instructions.

The "sales orders.txt" file may also be created with a text editor (e.g. Windows Notepad). Each column is separated by a TAB and each customer entry is ended by the ENTER key.

### Format of the Work Orders File

The work orders.txt file is created in Tab delimited format and may be imported by Microsoft Excel or similar programs.

The format of the file is in columns:

- 1) Line number of the corresponding line in the sales orders.txt file or 00 if no line selected,
- 2) Job start date and time,
- 3) Job stop date and time,
- 4) Material used (in cubic feet),
- 5) A copy of all columns from the corresponding line of the sales orders.txt file.

# Operating Instructions

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Model # STX-550

## **Initializing a Flash Drive for use with Salt Traxx**

Two things must be done to prepare a flash drive for use with Salt Traxx. They may be done by using Windows Explorer to perform the file operations.

- 1) Create a folder named, "SNOWEX" in the root directory of the flash drive.
- 2) Copy your "sales orders.txt" file to the "SNOWEX" folder on the flash drive.

NOTE: If there is more than one partition on the flash drive Salt Traxx will only use the first partition on the flash drive.

It is the responsibility of the person using this equipment to make sure that every type of material is properly calibrated to perform as expected. This process should take place on a solid flat surface away from drains and livestock areas in order to achieve a safe and accurate reading for proper material distribution. Failure to do so may cause an over/under application that could damage turf areas or give an ineffective pest control treatment. Any calibration charts contained in this manual are given as a reference point only and should not be used as an absolute condition. Spending a few extra minutes to properly calibrate will not only save on wasted materials and time but also protect turf and other vegetation. Below are several points to be aware of before operating your spreader in the field.

Flow rates of chemicals can change for many reasons

1. Formulations vary within the same brand or even between brands
2. Formulations vary between batches or dates of manufacture
3. Humidity can cause the material to clump and flow poorly
4. Poor spreader maintenance can cause flow changes
5. Gate Slide Stop has moved or calibrated to another type of material
6. Human error can cause rate miscalculation.

Items needed for calibration

- 1) A way to catch the material for weighing
- 2) A device to measure distance
- 3) A scale to weigh your product
- 4) A stop watch or other means to time.

Conversion

- 1) To convert pounds per 1000 square feet to pounds per acre, multiply your rate by 43.6.

Other important information:

- 1) 1 acre is equal to 43,600 Square Feet
- 2) Ground speed is very important to keep in mind when doing calculations, you will want to convert mph to feet per minute

## 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

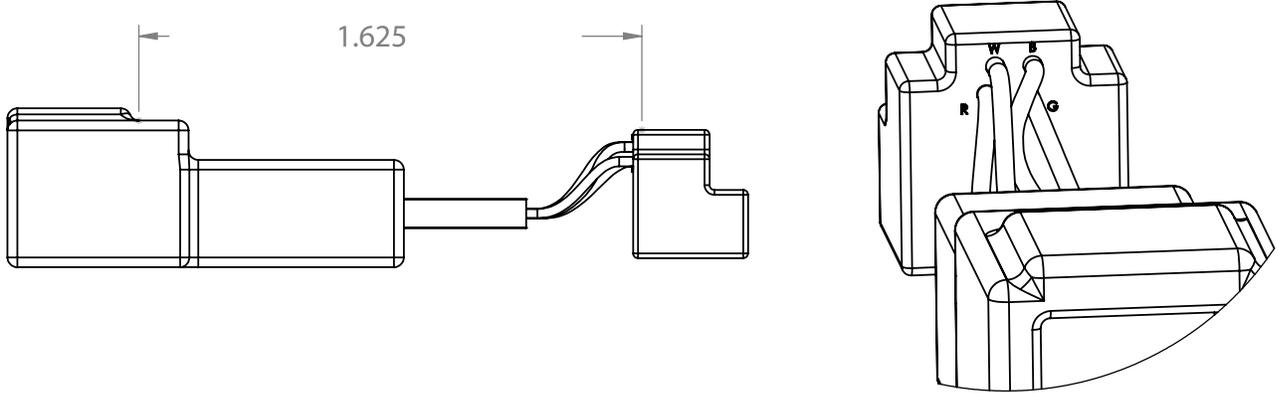
Neither Snowex, nor any company affiliated with it, makes any warranties, representations or promise as to the performance or quality other than what is herein contained. The liability of Snowex to the purchaser for damages arising out of the manufacture, sale, delivery, use or resale of this spreader 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.

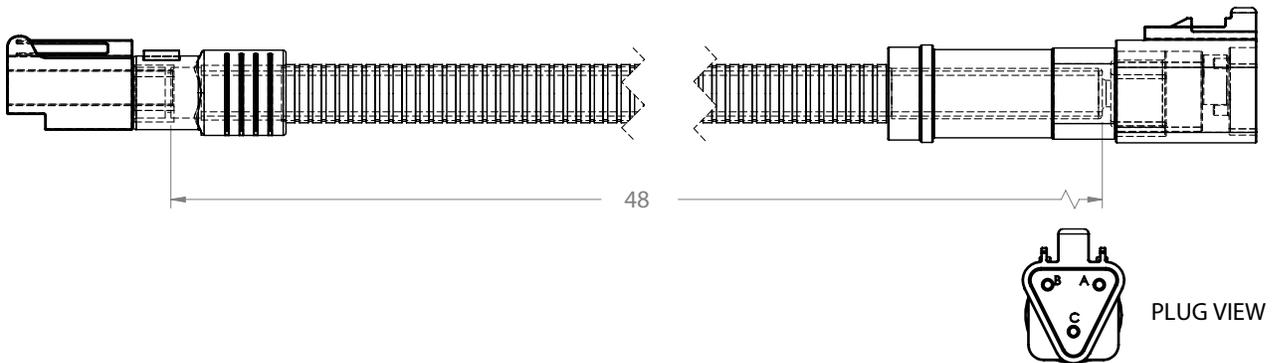
# Harness Diagrams

Model # STX-550

## F50610 Salt Traxx Control Adapter



## F50611 Salt Traxx Spreader Harness



## F50615 Salt Traxx Vehicle Harness

