



Left view

Front view

Right view



&



Snow Force® Instruction Manual

Flocking machine

Original Language – English

Intec — 4040 Kodiak Court, Frederick, CO 80504 USA

Pursell Manufacturing Contact Information

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Rev Date: 20200513 JLB

Introduction

Thank you for purchasing Pursell Manufacturing Corporation's Snow Force® 110™ or 220™ flocking machine, manufactured by Intec. Pursell partnered with Intec to have this highly efficient flocking system produced to enable faster and more precise flocking.

Pursell's Snow Force Flock Machine is the highest output and most reliable flock machine in the industry. Our new dispensing technology allows this fully adjustable machine to blow up to 5.5 pounds of Pinnacle Flock per minute reducing time and labor. Fully adjustable material flow, blower flow, and water spray combined with Pinnacle Flock and the Blizzard™ flocking nozzle, the Snow Force provides a flocking system offering superb performance, dependability and ease of use.

About Pursell Manufacturing

Pursell Manufacturing has been leading the Christmas Tree lot supply industry since 1968. Pursell provides nationwide and overseas service for everything you will need to keep your tree lot running smoothly and profitably. Let Pursell help you have a successful Christmas season with their reliable and innovative products, top-notch service, and years of knowledge and experience.

About Intec (Insulation Technology Corporation)

Intec has been recognized as an industry leader in portable insulation blowing machines since 1977. The company is the original developer and manufacturer of high production electric airlock insulation machines. In addition to blowing machines & high powered vacuums, Intec produces a range of private label systems and accessories to increase operators' productivity.

About this manual




Any user of the Snow Force system should read this manual thoroughly before operating the system. All of the features, setup and operation procedures, specifications and warranty information, as well as instructions for the safe operation of this machine, are detailed for your information and convenience.

Thank you for choosing Pursell Manufacturing Corporation's Snow Force.

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Symbols








| SYMBOL | SYMBOL | MEANING |
|---|---------|--|
|  | Danger | Indicates an imminently hazardous situation, which, if not avoided, will result in death or serious injury. |
|  | Warning | Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury. |
|  | Caution | Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury. |

Safety First



-  Disconnect all power cords prior to working on the equipment. Failure to do so could result in injury or death.
-  Never operate equipment with guards removed.
-  Never operate equipment with hopper removed from base.
-  Never operate equipment while standing in water as electrical shock may result.
-  Always use grounded extension cords when operating equipment.

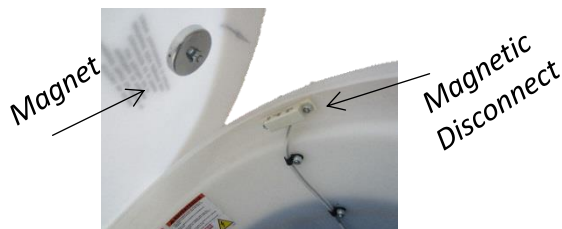


-  When working with flock, always wear proper protective equipment.
-  Always operate system with Lid on Hopper.
-  Never put your hands into the hopper or machine outlet while the machine is operating.
-  Keep tools and foreign objects out of the hopper.
-  Never leave the machine unattended during operation. Disconnect all power to the machine when unattended.
-  Never operate the equipment with the access panels off, possible injury may occur.
-  Prior to use, inspect power cord and remote cord prior to ensure no damage exists.

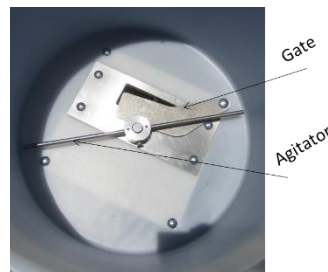


How the System Works

OVERVIEW: Pinnacle Flock is loaded into the hopper. The agitator provides movement for the flock down into the hopper and sweeps the flock into the flow control box and airlock. The airlock transports the flock into the airstream created by the blower system. Pinnacle Flock is discharged from the airlock, through the machine outlet, and into the material hose. To view an operation video, please go to <http://www.pursellmfg.com/flock-flocking-equipment-and-accessories/flock-machines/flock-machine-snow-force>.



SnowForce 220™ Lid



Looking down into hopper



An introduction to key components of the system follows:

Lid: The lid provides safety to the operator in addition to reducing both airborne dust from leaving the hopper, and foreign materials from entering the hopper.
Note: For the 220V version, the lid must be in place for the machine to operate.

Disconnect Switch: Snow Force 220 comes standard with a magnetic disconnect switch which requires the lid to be on the system for operation. *Note: Match the arrow from the lid to the one on the hopper for appropriate operation.*

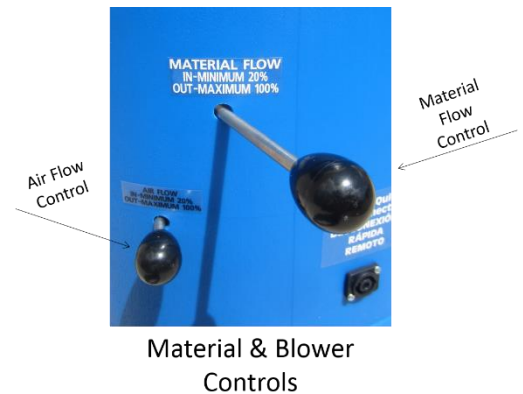
Hopper: The hopper contains the Pinnacle Flock being fed into the agitators.

Agitator: The agitator – visible by removing lid and looking down into the hopper -- transports the flock down the hopper, thru the material flow gate, and into the airlock.

Inlet Air Filter: Ensures clean air is being used for blower intake and cooling to increase the blower's life. Recommendation is to clean filter daily.

System Access Ring: The System Access Ring provides quick access to the blower and agitator motors, and the electrical system. Opening this ring removes the bottom section of the machine for easy access.

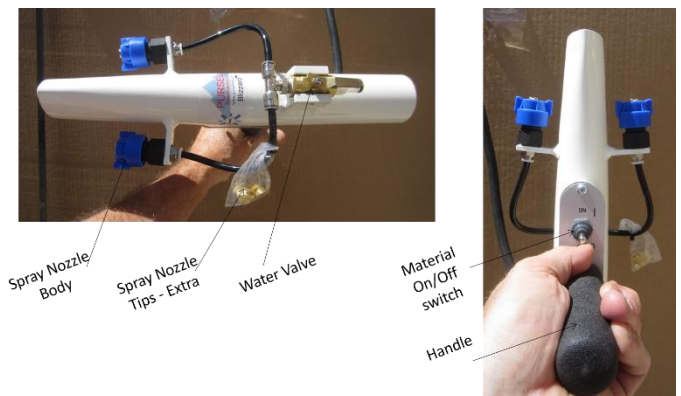
Material Flow Gate: The Material Flow Gate -- controlled by the Material Flow adjustment knob -- allows flock to enter the airlock at various rates. When the Material Flow Adjustment is in the out -- green -- position, maximum flow of flock thru the system is obtained. Pushing the Material Flow Adjustment towards the closed position -- red -- decreases the flow of flock.



Blower Flow Adjustment: The Blower Adjustment allows the user to adjust the air flow for desired application. Pull the Blower Flow Adjustment to green to increase flow; push in -- towards red -- to decrease airflow.

Power on/off: The Snow Force's material & air flow are controlled by the on/off switch on the Blizzard nozzle

Airlock: The airlock transfers the flock from the hopper / agitation system into the airstream without material coming into contact with the blower. Flock is discharged from the airlock into the Material Outlet where a material hose is to be connected.



Blizzard™ Nozzle Overview

Remote Control: Provides operation of the machine's material (Pinnacle Flock) from trigger on Blizzard Nozzle's handle.



Remote Plug Operation

Set up and Operation

System Set-Up:

UNPACKING

The lid handle for your Snow Force unit has been installed upside down to prevent potential freight damage. Please remove the handle from its current location, and install with the handle on the outside top center of the lid.

SET UP

1. Set system on a dry, level surface.
2. Obtain appropriate protective equipment.
3. Attached water hose to Blizzard flocking nozzle using quick-connections.
4. Attach material hose to machine outlet using the friction fitting.
5. Attach other end of material hose to the Blizzard flocking nozzle.
6. Attach remote cord from the Blizzard flocking nozzle to the SnowForce using the quick connect. Insert and turn clockwise. *Note: when disconnecting, pull the metal piece back, turn counter-clockwise, and pull out.*
7. Place the on/off switch -- Snow Force 220 only -- in the “on” position.



Note:

The Snow Force 220 version (pictured to the left) is the only model Snow Force Machine with a POWER ON / POWER OFF Switch.

Both the SnowForce 110 version and SnowForce 220 version have the green LED Ready Light. This light will illuminate when proper power is provided to the system. The Ready Light on a Snow Force 220 version will not illuminate until the system is in the POWER ON position.

8. Open Material Flow Gate to desired setting (note: can also set material flow gate when flock is in hopper).
9. Set Blower Flow Adjustment to desired setting (note: can also set blower flow adjustment when system is in use).
10. Connect heavy duty power cord to power source.
 - a. Recommendation is to use a 12 gauge power cord.
11. Place Pinnacle Flock in the hopper.

You are now ready to operate the Snow Force – go to system operation.

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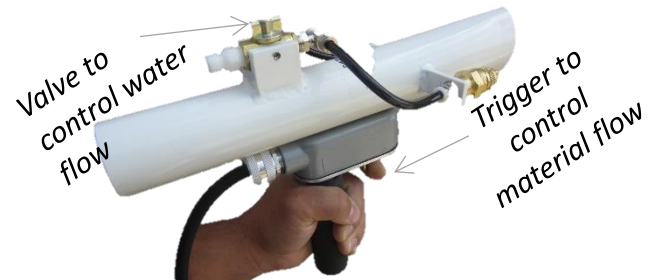
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System Operation:

1. Open the Blizzard's nozzle to start the flow of water.
2. Turn Snow Force system on by the trigger switch on the Blizzard flocking nozzle to start the flow of flock.



3. Note: We have provided you with two tip sizes. For approximately 50% more water flow, install the extra tips provided.



Spray Tip Body
Spray Tip



Turn Nozzle body ¼ turn counterclockwise to remove spray tip body



Push Spray Tip down and remove from body



Spray Tip and Spray Tip Body

Blizzard Tip Change Overview

Maintenance

Preventative maintenance will provide for many years of trouble-free use. Prior to any maintenance, disconnect the power source from the Snow Force system.

Cleaning

Filter – The filter should be cleaned every use to avoid potential blower and agitator motor overheating. Simply slide filter from holder, use compressed air or knock filter on a hard surface to remove contaminants, and replace filter in the appropriate holder on machine.

System Interior & Exterior - Clean the interior and exterior of the machine weekly by wiping with a rag and/or blowing with compressed air. This activity will help maintain the longevity of the mechanical components in addition to the system's finish. The machine has been designed to work in a dusty environment. However, without periodic cleaning and maintenance, the performance of the machine will decline potentially leading to failure.

Cords – Remote and Power

Both the supplied remote cord and the power cord you provide (12 gauge suggested) is subject to considerable wear and tear during normal operation. Inspect prior to use to ensure safe operation. If any damage is observed, be sure to repair or replace before operating the machine to avoid personal injury. **Note:** Do not pull on remote or power cord to move machine as damage to cord or cord's quick-connect may occur.

Airlock and Seals

The airlock assembly is one the most important items to keep in good condition. Foreign objects in the airlock can cause damage and reduce the machine's production. Seal failure is the most common airlock assembly failure. Seal failure prevents the airlock from holding the proper pressure. Seal failure will reduce the machine's production. A machine with seal failure will have air blow out of the airlock into the hopper, reducing the amount of air exiting the machine outlet. Replace airlock seals if a cut or tear is evident, or if your system's production rate has significantly decreased in comparison to when it was new.

Blizzard Tips

The Blizzard's spray tips can be removed by turning the plastic jacket to the unlock position. You can then remove the filters & tips to clear a foreign object as beneficial.

Intec Quick-Access™ - IQA™

We understand that at times...

- maintenance – no matter how infrequent – is beneficial where you will need to replace airlock seals, and
- unexpected repairs are required at times.

...you will need to get to the system's components. To make this easy, the Snow Force utilizes IQA™ features. In addition to the filter (described above), quick-access to system components is possible thru the System Access Ring. Please disconnect power prior to accessing system components. The following steps will allow you to access the system components.

1st, unplug system from electrical connection. Then...



Remove the Belly Band



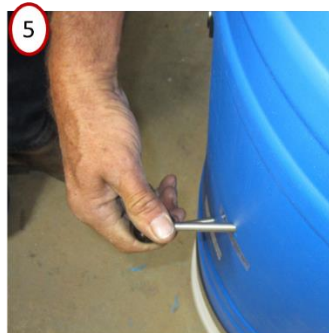
Turn System upside and remove the Access Ring



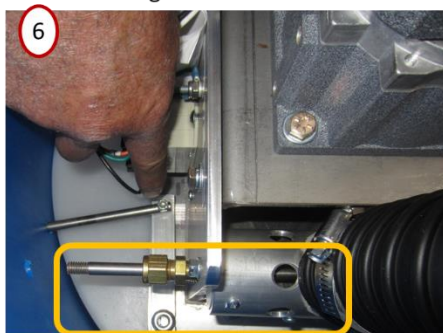
Unplug wires



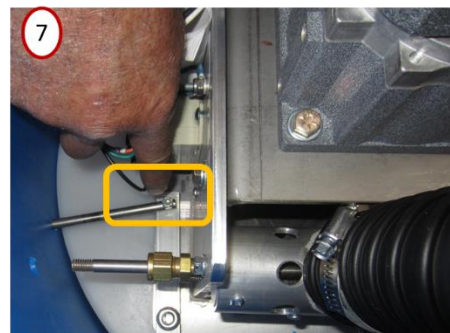
Remove Material Outlet Tube



Hold Air Flow control knob shaft with pliers and unscrew the knob



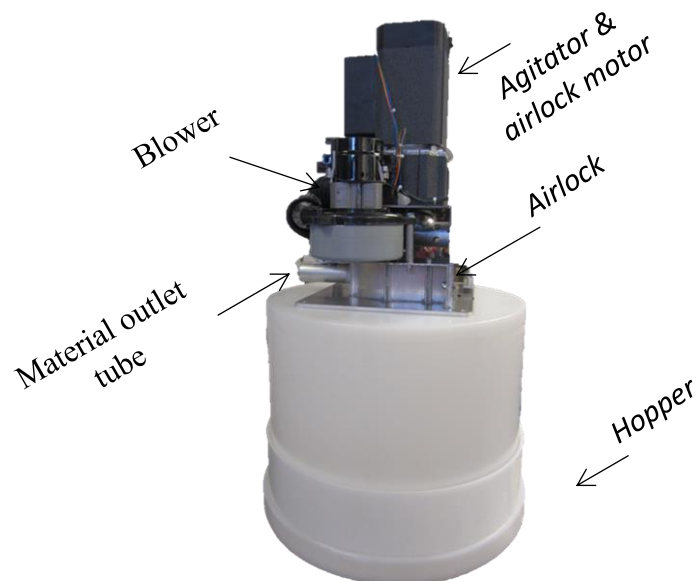
Using a #2 Phillips stubby screw driver, remove the limit screw under the flex tube, and push the rod inside the barrel



Remove nut on Material Flow Control Rod. Pull Rod out of system

Hopper is now ready to be removed from base.

Hopper removed from base



Trouble Shooting

| Problem | Likely Cause | Remedy |
|---|--|---|
| Snow Force is plugged in, yet flock not coming out of Blizzard gun. | Power cord connection is loose. | Ensure appropriate power cord connection at machine. |
| | | Ensure appropriate power cord connection at power source. |
| | Power Cord gauge is too small for the length of power cord being used. | Obtain a thicker gauge power cord (recommended to use a 12/3 power cord). |
| | | Use a shorter length power cord to reduce voltage drop. |
| | Circuit breaker at power source has been tripped. | Check the power source to ensure circuit breaker has not been tripped; reset is required. |
| | Material Flow Gate is closed. | Open the Material Flow Gate |
| | System not turned on. | Place the remote in the 'on' mode. |
| | Electrical system may have a loose wire. | Have the system inspected by a qualified technician. |
| Flock is coming out less than desired | Hopper low on flock. | Fill hopper with Pinnacle Flock. |
| | Material Flow Gate is cutting back on flock flow. | Pull the Material Flow Gate setting out to allow for more product flow. |
| | Blower Flow Adjustment reducing air flow | Pull the Blower Flow Adjustment out to increase air flow. |
| Water flow is less than desired from Blizzard gun | Obstruction in water flow | Check hose inlet filter & remove foreign materials preventing desired water flow. |
| | | Check Blizzard gun spray tips to remove foreign materials preventing desired water flow. |
| | | Ensure water hose is not kinked as kink will reduce or prevent water flow. |
| | Damaged Blizzard gun spray tips. | Obtain new Blizzard gun spray tips if tip is damaged. |

| Problem | Likely Cause | Remedy |
|--|---|--|
| Water flow is less than desired from Blizzard gun (<i>continued</i>) | Hose not connected to a water source that is flowing. | Ensure water hose is connected. |
| | Garden hose is too long & is restricting pressure. | Obtain a larger diameter garden hose. |
| | | Reduce the length of garden hose (i.e. flock closer to the water source) |
| | Blizzard gun nozzle not in the full 'open' position. | Ensure nozzle is fully opened. |

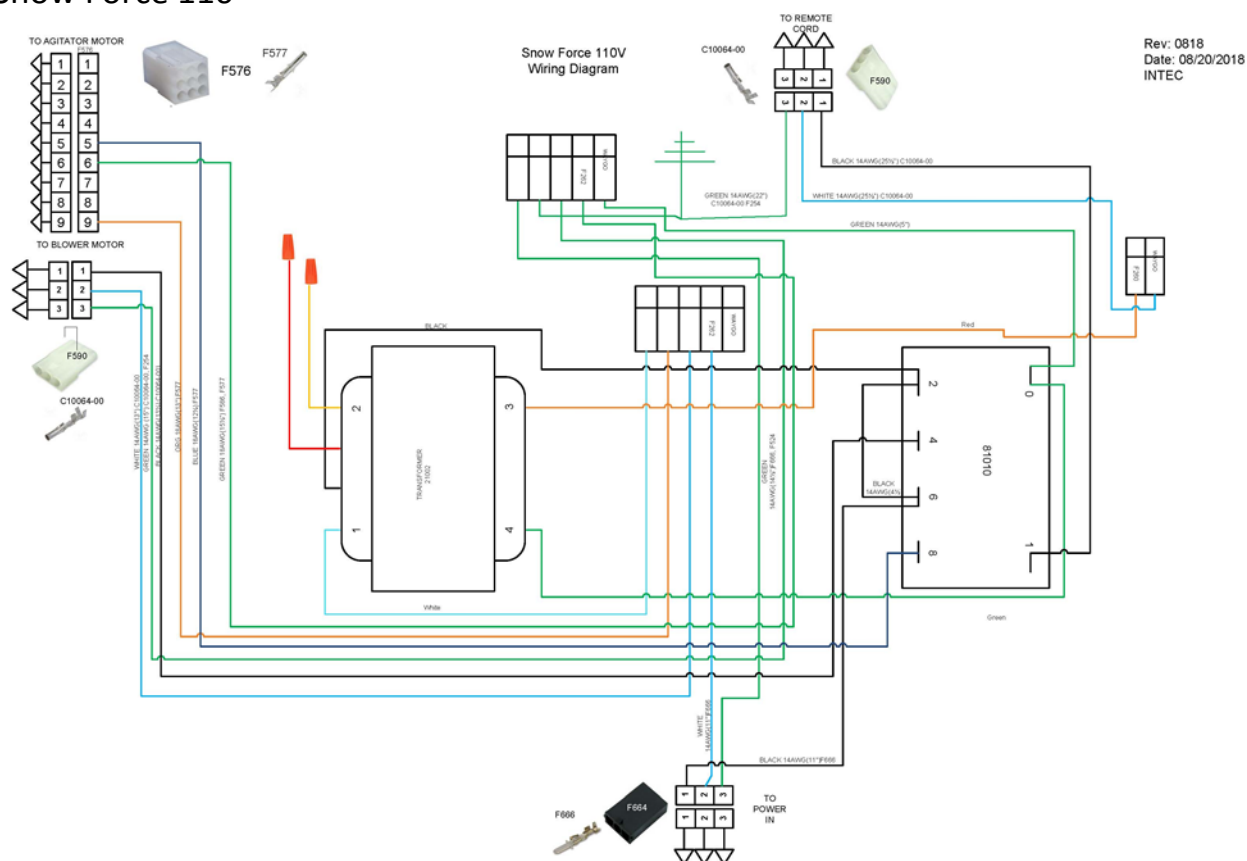
Specifications

| | |
|--------------------------|--|
| Weight | 82 lbs 37 kg |
| Blower | 134 CFM, 115VAC, 10.1 amp 2.8m ³ /min, 230VAC, 4.9 amp |
| Agitator & Airlock Motor | 110V - 51 rpm; 2.6amps 220V – 44 rpm; 1.11amps |
| Power Requirements | <ul style="list-style-type: none"> 1-110VAC, 60 Hz, 15 amp circuit for Snow Force 110™ 1-220VAC, 60 Hz, 7 amp (or greater) circuit for Snow Force 220™ |

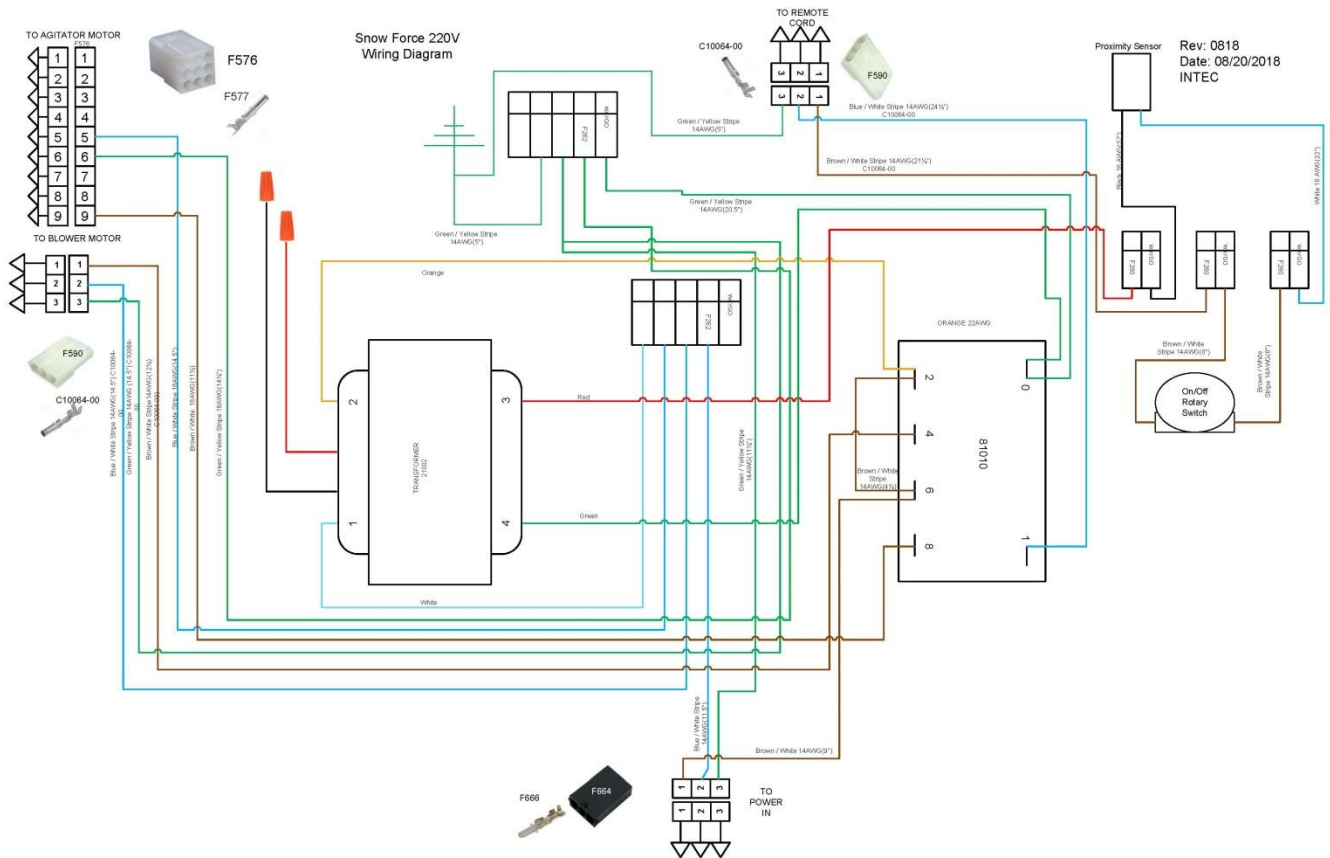


Electrical Drawings

Snow Force 110™



Snow Force 220™



Making a Claim for Damage or Loss

Your Snow Force system and accessories were carefully packed and thoroughly inspected before leaving our factory. We understand that damage to or defects with your system may unfortunately occur. Please inspect your shipment carefully upon arrival and save the shipping containers and packaging materials in case of damage.

The following table provides you with appropriate actions to take when certain issues are realized.

| ISSUE | Action to Take |
|---|--|
| 1 DAMAGE in Transit A Visible PRIOR to unpacking (Damage to carton or packing material). B Visible AFTER unpacking (Only apparent when unpacked). C Shortage (# containers does not agree to transportation bill). | File Claim with appropriate freight carrier. File Claim with appropriate freight carrier. File Claim with appropriate freight carrier. |
| When items leave our warehouse, the shipper assumes responsibility. It is the responsibility of the consignee to file a claim. Proper documentation is necessary to support the claim. Please inspect all items properly prior to signing for them. | |
| 2 Items received not correct A Incorrect items received. B Incomplete order received (not backordered). | Contact Pursell Manufacturing Contact Pursell Manufacturing |
| 3 Issue within the warranty period A Troubleshooting (machine or part not operating as intended). B Replacement part(s). | Contact Pursell Manufacturing Contact Pursell Manufacturing |
| Pursell Manufacturing can assist with troubleshooting your issue, and can get you back up and running. If warranty parts are required, a return material authorization (RMA) will be issued. | Contact Pursell Manufacturing |
| 4 Issue outside of warranty period A Replacement part, troubleshooting. | Contact Pursell Manufacturing |
| Pursell Manufacturing PO Box 248 Poncha Springs, CO 81242 USA | phone: 719-530-9096 fax: 719-530-9097 email: sales@pursellmfg.com website: www.pursellmfg.com |

Warranty

It is expressly understood and agreed that no officer, agent, salesman or employee of the manufacturer Intec (MANUFACTURER) has the authority to obligate the MANUFACTURER by any terms, stipulations, or conditions not herein expressed; that all previous representations and agreements, either verbal or written, referring to the machinery and equipment, which is the subject of this Warranty, are hereby superseded and canceled, and that there are no promises or agreements outside of the Warranty agreement. Furthermore, the MANUFACTURER hereby disclaims any implied warranties of merchantability, or implied warranties of fitness for a particular purpose.

With the above understanding, the MANUFACTURER provides the following one (1) Year Limited Warranty, and no other, for its insulation blowing machines (MACHINES):

- a) MANUFACTURER warrants to the original purchaser that the MACHINE is well made, of good material and durable; but only if the MACHINE is operated and maintained in accordance with the Instruction Manual. This Warranty is void if the MACHINE is not so operated and maintained, or if the MACHINE is used for blowing materials other than those which are intended to be used with the MACHINE.
- b) MANUFACTURER guarantees the MACHINE to be free from manufacturing defects at the time of shipment, and to remain free from defects when operated under normal use, for a period of one (1) year from the date of factory shipment, with the exception of the blowers, electrical and air lock components, which are warranted for a period of ninety (90) days from date of factory shipment.
- c) This Warranty shall not apply to any MACHINE or component part which, in the opinion of the MANUFACTURER, has been altered, subject to misuse, negligence, accident or operated beyond factory rated capacity. All requested Warranty work should be performed at MANUFACTURER's factory or by an Authorized Factory Service Facility. Failure to have the Warranty work done at MANUFACTURER'S factory or by an Authorized Factory Service Facility will void this Warranty. MANUFACTURER will bear full responsibility to repair or replace, at its option, without charge to the original purchaser, any part that, in the MANUFACTURER'S opinion, is found to be defective.
- d) All parts claimed defective by original purchaser shall be returned, properly identified, to MANUFACTURER's factory or Authorized Factory Service facility, freight prepaid. All replacement, repaired or non-defective parts will be returned to purchaser, freight collect. MANUFACTURER will supply replacement parts prior to purchaser, freight collect. MANUFACTURER will supply replacement parts prior to receipt of any parts claimed defective, only with the understanding that such replacement parts will be shipped to purchaser at the then prevailing price of said part, C.O.D., freight collect. MANUFACTURER will reimburse cost of any such part only after receipt and inspection, and finding said part defective.
- e) MANUFACTURER's liability is expressly limited to the repair or replacement of defective parts set forth in this Warranty. All other damages and warranties, statutory or otherwise, being waived are original purchaser as a condition of sale and purchase of said machines. Furthermore, the MANUFACTURER shall not be liable for damages or delays caused by defective material or workmanship.

EC Declaration of Conformity



EC Declaration of Conformity of the Machinery Machine: Snow Force 220

The machine which accompanies this declaration is in conformity with the EU's 2006/42/EC Machinery Directive.

Manufacturer:
Insulation Technology Corporation, d.b.a. Intec
4040 Kodiak Court
Frederick, CO 80504 USA

A copy of the Technical File for this equipment is available from Intec on request.

Description and Identification of the Machinery:

- ☐ General denomination – Flocking Machine.
- ☐ Function – The flocking machine is used to install flock onto Christmas trees and wreaths to resemble snow.
- ☐ Model Type / Commercial Name – Snow Force 220.
- ☐ Serial number – Serial numbers for Snow Force 220 machines that are shipped to EU and meet this EC Declaration of Conformity of the Machinery begin with SNOW-001 and will sequence to larger numbers as SNOW-002, SNOW-003, and so on.

Snow Force 220 fulfills all relevant provisions of the:

- ☐ 2006/42/EC Machinery Directive
- ☐ 2006/95/EC Low Voltage Directive

Authorized signatory of manufacturer:

A handwritten signature in blue ink, reading "Raymond W Lavallee II".

Raymond W Lavallee II
President, Insulation Technology Corporation (d.b.a. Intec)
4040 Kodiak Court
Frederick, CO 80504 USA

May 1, 2015