# Operation, Parts

# RTX1400, RTX2000 & RTX2500 Interior Texture Sprayers



For water-based materials only. For professional use only.

## Models: RTX1400si, RTX2000pi & RTX2500pi

70 psi (4.8 bar, 0.48 MPa) Maximum Working Pressure 100 psi (6.9 bar, 0.69 MPa) Maximum Working Pressure (RTX2500pi)



## **Important Safety Instructions**

Read all warnings and instructions in this manual and related manuals. Be familiar with the controls and the proper usage of the equipment. Save these instructions.

RTX1400si Gun - 311777

### Related Manuals RTX2000pi & RTX2500pi Gun – 3A3373





Use only genuine Graco replacement parts.
The use of non-Graco replacement parts may void warranty.

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# **Models**

|   | VAC                        | Model  |                            |
|---|----------------------------|--|----------------------------|
|   | 120                        | RTX1400si<br>RTX1400si RentalHD                      | 17H572<br>17P189           |
| c Users Use Intertek  | USA                        | RTX2000pi<br>RTX2000pi Rental<br>RTX2000pi RentalHD  | 17H573<br>17H574<br>17K301 |
| 110474<br>Certified to<br>CAN/CSA<br>C22.2 No. 68<br>Conforms to<br>UL 1450 | 120<br>USA                 | RTX2500pi<br>RTX2500pi Rental<br>RTX2500pi Rental HD | 17U219<br>17U220<br>17U221 |
| CE  | 230<br>AP<br>SCA<br>Europe | RTX2500pi  | 17V582                     |

## Warnings

# Warnings

The following warnings are for the setup, use, grounding, maintenance, and repair of this equipment. The exclamation point symbol alerts you to a general warning and the hazard symbols refer to procedure-specific risks. When these symbols appear in the body of this manual or on warning labels, refer back to these Warnings. Product-specific hazard symbols and warnings not covered in this section may appear throughout the body of this manual where applicable.

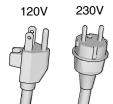
## **↑**WARNING



### GROUNDING

This product must be grounded. In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape wire for the electric current. This product is equipped with a cord having a grounding wire with an appropriate grounding plug. The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances.

- Improper installation of the grounding plug is able to result in a risk of electric shock.
- When repair or replacement of the cord or plug is required, do not connect the grounding wire to either flat blade terminal.
- The wire with insulation having an outer surface that is green with or without yellow stripes is the grounding wire.
- Check with a qualified electrician or serviceman when the grounding instructions are not completely understood, or when in doubt as to whether the product is properly grounded.
- Do not modify the plug provided; if it does not fit the outlet, have the proper outlet installed by a qualified electrician.
- This product is for use on a nominal 120V or 230V circuit and has a grounding plug similar to the plugs illustrated below.



- Only connect the product to an outlet having the same configuration as the plug.
- Do not use an adapter with this product.

### **Extension Cords:**

- Use only a 3-wire extension cord that has a grounding plug and a grounding receptacle that accepts the plug on the product.
- Make sure your extension cord is not damaged. If an extension cord is necessary use 12 AWG (2.5mm²) minimum to carry the current that the product draws.
- An undersized cord results in a drop in line voltage and loss of power and overheating.

## **MARNING**



### **FIRE AND EXPLOSION HAZARD**

Flammable fumes, such as solvent and paint fumes, in work area can ignite or explode. To help prevent fire and explosion:



- Do not spray or clean with flammable materials. Use water-based materials only.
- Use equipment only in well ventilated area.



- Sprayer generates sparks. When flammable liquids are used near the sprayer, keep sprayer at least 20 feet (6.1 meters) away from explosive vapors.
- Keep work area free of debris, including solvent, rags and gasoline.
- Ground all equipment in the work area. See **Grounding** instructions.
- Keep a working fire extinguisher in the work area.



### **EQUIPMENT MISUSE HAZARD**

Misuse can cause death or serious injury.



- Always wear appropriate gloves, eye protection, and a respirator or mask when painting.
- Do not operate or spray near children. Keep children away from equipment at all times.
- Do not overreach or stand on an unstable support. Keep effective footing and balance at all times.
- Stay alert and watch what you are doing.
- Do not operate the unit when fatigued or under the influence of drugs or alcohol.
- Do not kink or over-bend the material or air hoses.
- Do not expose the hose to temperatures or to pressures in excess of those specified by Graco.
- Do not use the hose as a strength member to pull or lift the equipment.
- Do not alter or modify equipment. Alterations or modifications may void agency approvals and create safety hazards.
- Make sure all equipment is rated and approved for the environment in which you
  are using it.



### **BURN HAZARD**

Equipment surfaces and fluid that is heated can become very hot during operation. To avoid severe burns:

Do not touch hot fluid or equipment.



### **ELECTRIC SHOCK HAZARD**

This equipment must be grounded. Improper grounding, setup, or usage of the system can cause electric shock.



- Turn off and disconnect power cord before servicing equipment.
- Connect only to grounded electrical outlets.
- Use only 3-wire extension cords.
- Ensure ground prongs are intact on power and extension cords.
- Do not expose to rain. Store indoors.

## Warnings

## *↑***WARNING**



### PRESSURIZED EQUIPMENT HAZARD

Fluid from the equipment, leaks, or ruptured components can splash in the eyes or on skin and cause serious injury.

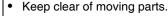


- Follow the **Pressure Relief Procedure** when you stop spraying/dispensing and before cleaning, checking, or servicing equipment.
- Tighten all fluid connections before operating the equipment.
- Check hoses, tubes, and couplings daily. Replace worn or damaged parts immediately.



#### **MOVING PARTS HAZARD**

Moving parts can pinch, cut, or amputate fingers and other body parts.



- Do not operate equipment with protective guards or covers removed.
- Pressurized equipment can start without warning. Before checking, moving, or servicing equipment, follow the Pressure Relief Procedure and disconnect all power sources.



### PLASTIC PARTS CLEANING SOLVENT HAZARD

Many solvents can degrade plastic parts and cause them to fail, which could cause serious injury or property damage.



- Use only compatible water-based solvents to clean plastic structural or pressure-containing parts.
- See Technical Data in this and all other equipment instruction manuals. Read fluid and solvent manufacturer's Safety Data Sheet (SDS) and recommendations.



### PERSONAL PROTECTIVE EQUIPMENT

Wear appropriate protective equipment when in the work area to help prevent serious injury, including eye injury, hearing loss, inhalation of toxic fumes, and burns. This protective equipment includes but is not limited to:

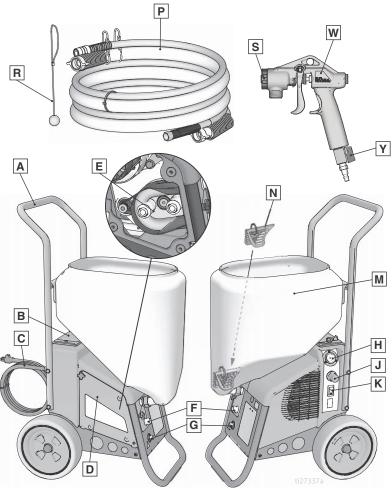
- Protective eyewear, and hearing protection.
- Respirators, protective clothing, and gloves as recommended by the fluid and solvent manufacturer.

### CALIFORNIA PROPOSITION 65

This product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm. Wash hands after handling.

# Component Identification

# **Component Identification RTX1400si**

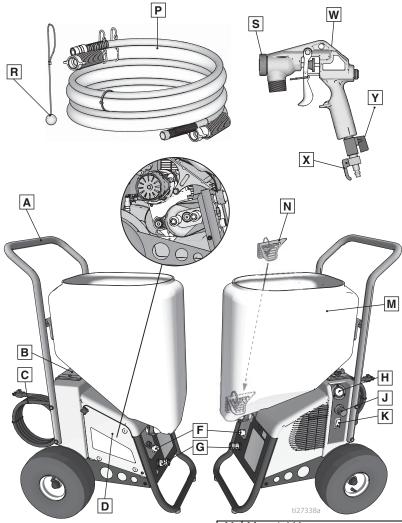


| Α | Handle                |
|---|-----------------------|
| В | Toolbox               |
| С | Power Cord            |
| D | Pump Access Panel     |
| Е | RotoFlex™ II Pump     |
| F | Pump Hose Outlet      |
| G | Air Hose Outlet       |
| Н | Material Flow Gauge   |
| J | Material Flow Control |

| K | ON/OFF Switch  |
|---|--|
| М | Material Hopper  |
| N | Burp Guard   |
| Р | Material/Air Hose  |
| R | Material Thickness Gauge                                 |
| S | Nozzle   |
| W | Gun  |
| Υ | Air control valve  |
|   | Model/Serial Tag (Not shown, located on bottom of unit.) |

# Component Identification

## RTX2000pi & RTX2500pi



| Α | Handle                |
|---|-----------------------|
| В | Toolbox               |
| С | Power Cord            |
| D | Pump Access Panel     |
| Е | RotoFlex™ II Pump     |
| F | Pump Hose Outlet      |
| G | Air Hose Outlet       |
| Н | Material Flow Gauge   |
| J | Material Flow Control |
| K | ON/OFF Switch         |

| М | Material Hopper  |
|---|--|
| N | Burp Guard   |
| Р | Material/Air Hose  |
| R | Material Thickness Gauge                                 |
| S | Nozzle & retaining ring                                  |
| W | Gun  |
| Χ | Prime Valve  |
| Υ | Air control valve  |
|   | Model/Serial Tag (Not shown, located on bottom of unit.) |

## **Preparation**

### **Pressure Relief Procedure**



Follow the Pressure Relief Procedure whenever you see this symbol.









This equipment stays pressurized until pressure is manually relieved. To help prevent serious injury from pressurized fluid or splashed fluid follow the **Pressure Relief Procedure** whenever sprayer is stopped and before sprayer is cleaned or checked, and before equipment is serviced.

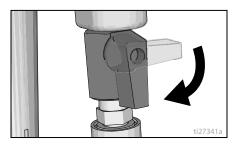
 Turn ON/OFF switch to the OFF position. Wait 7 seconds for power to dissipate.



2. On the RTX1400si, trigger gun into material hopper.



3. Open air control valve.



4. On the RTX2000pi and RTX2500pi, open gun prime valve.

## Grounding









The equipment must be grounded to reduce the risk of static sparking and electric shock. An electric or static spark can cause fumes to ignite or explode. An improper ground can cause electric shock. A good ground provides an escape wire for the electric current.

This sprayer includes a ground wire with an appropriate ground contact. The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances.

Do not modify the plug provided; if it does not fit the outlet, have the proper outlet installed by a qualified electrician.

## **Power Requirements**

100-120V units require 100-120 VAC, 50/60 Hz, 12 or 15A, 1 phase. 230V units require 220-240 VAC. 50/60 Hz. 10A

### **Extension Cords**

Use an extension cord with an undamaged ground contact. If an extension cord is necessary, use a 3-wire, 12 AWG (2.5 mm<sup>2</sup>) minimum.

## Preparation

**NOTE:** Lighter gauge or longer extension cords may reduce sprayer performance.

## Auxiliary Air Compressor

Do not use an auxiliary air compressor with this spray system.

## **Generator Requirements**

3500 W (3.5 kW) minimum.

### Hose Size and Length

The system comes with a 25 ft (7.6m) hose set consisting of a 3/4 in. ID RTX1400si/1 in. ID RTX2000pi and RTX2500pi material hose and a 3/8 in-ID air hose.

Do not use more than 25 ft (7.6 m) of material hose.

## Soft Start/Smart Start™ System (RTX2000pi and RTX2500pi only)

"Smart" vs. "Soft"

 "Smart" refers to the function where the motor starts and stops when the trigger is pulled and released. This keeps the sprayer at full operating pressure and allows the sprayer to spray immediately when the gun is triggered.  "Soft" refers to the function where the sprayer slowly starts the pump. This prevents a large "splotch" of material from being discharged from the gun when trigger is pulled after the sprayer has sat idle for a period of time.

### **Smart Start**

The Smart Start System is controlled by compressed air in the tanks and lines. When gun is triggered, air flows through the lines and opens a flow switch. There is also another pressure switch that senses when the compressed air system is at operating pressure. This second pressure switch allows the sprayer to start immediately when the sprayer is turned ON charging the compressed air system to full pressure. This method keeps the compressed air system at operating pressure if there is a small air leak in the system.

### Soft Start

The Soft Start System is controlled by motor power and an air cylinder. When pressurized, the air cylinder pushes the rollers into the peristaltic pump pushing material through the pump. When the motor shuts off, a solenoid valve relieves the pressure in the air cylinder causing the rollers to disengage from the peristaltic pump. When the motor starts again there is a time delay while the air cylinders charge and move the rollers into the pump this is the "Soft Start".

## Setup



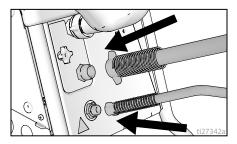




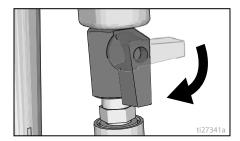


### **NOTICE**

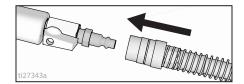
- Do not store sprayer under pressure.
- Do not allow material to dry inside pump, hoses, gun or spray system.
- When operating a RTX1400SI and you are going to stop spraying for more than five minutes turn sprayer OFF to prevent shortened pump life.
- Connect air hose and material hose to sprayer air and material hose outlets.



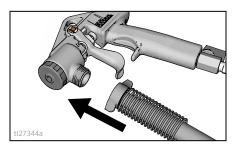
2. Open air valve.



Connect air hose to gun.



4. Connect material hose to gun.



5. Make sure burp guard is installed.

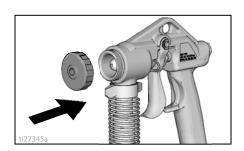




Before adding material to the hopper, install the burp guard. When only a small amount of material remains in the hopper, the burp guard prevents material from shooting out when the unit is turned off. This material could splash in the operator's eves or on skin, or into the air.



 Install spray nozzle or wide spray disc.
 See Recommended Nozzle Selection Charts, page 15.

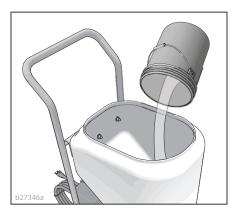


## Setup

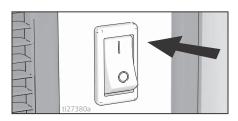
7. Pour one gallon (four liters) of water into the material hopper.

### NOTICE

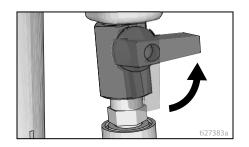
To prevent pump damage, before adding material or starting unit in cold weather, run warm water through the pump.



8. Turn ON/OFF switch to **ON** position.



9. Close gun air valve. On the RTX2000pi and RTX2500pi, open the prime valve on the gun.



 Point gun into waste bucket and pull trigger to pump water through the system. Continue to trigger gun until material hopper is empty.



11. Add pre-mixed texture mix to material hopper. See **Mixing Material**, page 13.



- Continue to trigger gun and spray into waste bucket until a steady stream of material sprays out of gun.
- 13. Release trigger.

**IMPORTANT!** Fluid/air flow will be restricted if the material/air hoses are restricted or kinked.

# Mixing Material

## **Mixing Material**











**NOTE:** Correct material mixture is essential. The pump will not operate if the mixture is too thick.

- Mix the material in a separate container before pouring it into hopper.
- Use Material Thickness Gauge to determine if mixture is thin enough to spray.
- The Material Thickness Gauge will only determine if the material is thin enough to pass through the pump. For some applications or for higher speed spraying, your mixture may need to be thinner.
- For best results, do not use partial bags of material.
- 1. Mix the material and water in a separate container.

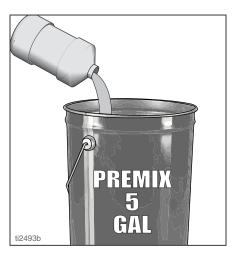
### Dry Mix - 40 lb (18 kg) bag

Carefully mix texture material and water according to manufacturer instructions on bag.



### **Premix**

Slowly add approximately 2 to 4 quarts (1.9 to 3.8 liters) of water to a 5 gallon (18.9 liter) bucket of premix.



 Agitate to mix, using a half-inch, variable speed drill with mixing paddle, to a smooth, lump-free consistency.



- 3. Allow ceiling texture to set for at least 15 minutes. Then remix prior to use.
- After texture material is thoroughly mixed, gently set ball end of Material Thickness Gauge on surface of mixture.

## Mixing Material

**NOTE:** For an accurate test, be sure gauge is completely dry and clean every time it is used.

- Observe the ball on the material. When the material is thin enough to spray the ball will sink completely into the mixture within 10 seconds.
  - READY WATER
- If the ball does not sink completely into the mixture within 10 seconds, add more water, agitate and try test again.
- Once material is mixed pour material into the sprayer hopper. See Operation, page 15 for nozzle selection and sprayer adjustments.

## Operation

## **Texture Spraying**

### **Recommended Nozzle Selection Charts**

### RTX1400si

| Application | Nozzle Size <sup>2</sup> | Air Volume <sup>1</sup> |
|-------------|--------------------------|-------------------------|
| Simulated   | 6 mm, white              | medium to high          |
| Acoustic    | (fine to medium)         |                         |
|             | 8 mm, gray               |                         |
|             | (coarse)                 |                         |
| Orange peel | 4 mm, beige,             | medium to high          |
|             | 6 mm, white              |                         |
|             |                          |                         |

| Application   | Nozzle Size <sup>2</sup> | Air Volume <sup>1</sup> |
|---------------|--------------------------|-------------------------|
| Splatter coat | 6 mm, white              | low to medium           |
|               | 8 mm, gray               |                         |
|               |                          |                         |
| Knockdown     | 6 mm, white              | low                     |
|               | 8 mm, gray               |                         |
|               | 12 mm, black             |                         |

### RTX2000pi and RTX2500pi

| Application               | WideTex™ Disc |            | Nozzle (mm) | Air Volume     |
|---------------------------|---------------|------------|-------------|----------------|
|                           | Standard      | Hardened   |             |                |
| Simulated Acoustic - Fine | W6            | W6H        | 4           | high           |
| - Medium                  | W8            | W8H        | 6           | high           |
| - Course                  | W10           | W10H       | 8- 10       | high           |
| Fog                       | W4            | W4H        | 3           | high           |
| Orange peel               | W4 or W6      | W4H or W6H | 3 - 8       | medium to high |
| Splatter coat             | W6 or W8      | W6H or W8H | 6 - 10      | low to medium  |
| Knockdown                 | W6 or W8      | W6H or W8H | 6 - 8       | low            |

## **Adjusting the System**

Sufficient fluid output (volume and pressure) and good atomization are a balance of atomizing air, material thickness/material flow and nozzle selection. Achieving the correct balance for your application requires experimentation to achieve desired results. Keep in mind these important points when adjusting gun:

- Select proper nozzle for your application. See Nozzle Selection Chart. Remember, the larger the nozzle, the heavier the pattern.
- Start sprayer with gun air flow valve completely open. Trigger sprayer gun.
   If needed, slowly close gun air flow until

you get a good spray pattern. Use minimum amount of air at spray gun to achieve proper spray pattern and to minimize bounce back.

- + Test spray pattern on cardboard. Hold gun 18 to 24 in. (45.7 to 61 cm) from surface. Use this spraying distance for most applications.
- Air and material flow adjustments are made at the gun on all units.
  - + Opening air valve increases air flow through gun, which decreases texture material flow through pump.
  - + Closing air valve decreases air flow through gun, which increases texture material flow through pump.

<sup>&</sup>lt;sup>1</sup>Control air volume with gun air valve.

<sup>&</sup>lt;sup>2</sup>For more material volume try a larger nozzle.

## Operation

To achieve uniform spray pattern, adjust air valve and flow adjustment nut on gun. If you do not achieve the desired pattern, change nozzles, see **Recommended Nozzle Selection Charts**, page 15.

### To Get Less Material

Try one or a combination of these methods:

- Open air valve.
- Turn gun flow adjustment nut counter-clockwise to decrease flow.
- Use smaller nozzle.

### To Get More Material

Try any one or a combination of these methods:

- Close air valve.
- Turn gun flow adjustment nut clockwise to increase flow.
- Use thinner material mixture.
- Use a larger nozzle.

### For Continuous Spraying

Use trigger lock to hold trigger open and reduce fatigue.

# Check Material Consistency Periodically

Check and thin material as needed to maintain proper consistency. The material may thicken as it sits and slow down production. Agitate periodically.

# Preventing Material Surge at Gun Trigger (RTX1400si only)

Pressure will build up in the system when you stop triggering the gun. To prevent material surge at initial gun triggering:

 Point gun away from surface you are spraying when you first pull trigger.

- When you first start to spray, hold the gun away from the surface and gradually work your way closer to it.
- Keep gun moving.
- After you begin spraying, trigger the gun as little as possible.

# Soft Start/Smart Start Operation RTX2000pi and RTX2500pi

### **Smart Start**

Sprayer will start under the following conditions:

- A new sprayer is plugged in and ON/OFF switch is turned ON.
- Gun is triggered and air valve is open far enough.
- There is a small leak in the system and the pressure drops below the pressure switch setting. This may appear to be random operation.
- When a bleeder gun is used.
- When there is no gun or hose connected to the sprayer.
- When the pressure is relieved by triggering the gun while the sprayer is OFF and then turned back ON.
- Prime valve is opened.
- There is a hose failure (leak) in the twin line hose.

### Soft Start

- The easiest way to tell if the Soft Start System is functional is to spray material.
- The system is operating properly when a small amount of material initially comes out of the gun when triggered and the volume of material slowly increases to full spray.

**NOTE:** Motor runs when gun is triggered. Sprayer is designed to stop pumping when gun trigger is released.

## Shutdown and Cleanup

## **Shutdown and Cleanup**







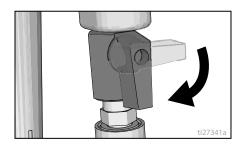


**NOTE:** Keep pump and hose clean when switching between simulated acoustic, knockdown and orange peel applications. A dirty pump can release particles of texture into the finish.

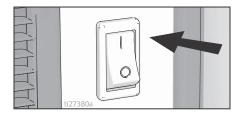
- To increase pump life, life turn power OFF when not spraying.
- Before removing material hose, perform Pressure Relief Procedure, page 9.
   Make certain there is no material in the hose.
- To keep sprayer in good operating condition, always clean it throughly and prepare it properly for storage.

When you have finished spraying:

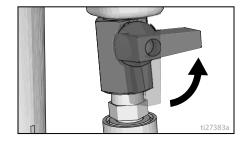
Open gun air valve.



2. Turn ON/OFF switch to **ON** position.



- 3. Close gun air valve.
- 6. Spray inside material hopper to circulate water through gun and hose. While



4. Trigger gun into bucket until most of texture mix is pumped out.



Fill material hopper with 2-4 gallons of clean water.

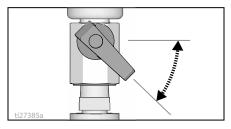


circulating water, use gun to clean material hopper.

# Shutdown and Cleanup



7. Partially open gun air valve to use air to achieve better cleaning results.



8. Spray water into a waste bucket to empty material hopper.



**NOTE:** A soft brush can be used to loosen dried on material.

9. Turn ON/OFF switch to **OFF** position.



 Open gun air valve. Perform pressure relief procedure, Pressure Relief Procedure, page 9.



Air hose fittings can get hot. Allow sprayer to cool down 15 minutes before removing air hose.

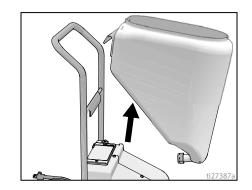
## **Clean Material Hopper**

Material hopper can be removed for easy cleaning.

Loosen bottom fitting

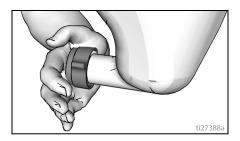


2. Lift material hopper straight up, off the unit.

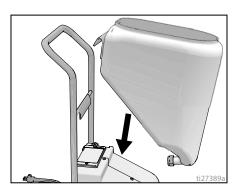


## Shutdown and Cleanup

3. Plug opening on bottom of material hopper with your hand.



- 4. Take hopper to cleaning area for cleaning.
- 5. After cleaning material hopper, position it on sprayer handle first.



6. Hand tighten fitting.



### **NOTICE**

Water or material remaining in unit when temperatures are below freezing can damage motor and/or delay pump startup. Do not allow unit to freeze.

To ensure water and material are completely drained out of unit:

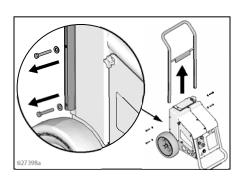
- 1. Remove material hose from sprayer.
- 2. Remove pump hose from sprayer. Empty hose and reinstall.
- 3. Remove hopper and drain.

## **Transporting Sprayer**

The handle and hopper can be removed from the sprayer for storage or transporting.

**NOTE:** The handle on the RTX2000pi and RTX 2500pi has semi-permanent screws. It is not recommended that the handle be removed.

- 1. Remove hopper see Clean Material Hopper, page 18.
- Loosen screws on either side of handle.
- Spread handle apart and remove.



### NOTICE

Do not lift sprayer by the handle. To prevent sprayer damage, handle should only be used to push or pull the sprayer.

## Maintenance

## **Maintenance**

Routine maintenance is important to ensure proper operation of your sprayer. Maintenance includes performing routine actions which keep your sprayer in operation and prevent trouble in the future.













| Activity   | Interval                         |
|--|----------------------------------|
| Inspect motor shield vents for blockage.   | Daily or each time you spray     |
| Check sprayer stall (RTX2000pi and RTX2500pi only). With sprayer gun NOT triggered, sprayer motor should stall and not restart until gun is triggered again. | Every 1000 gallons (3785 liters) |
| If sprayer starts again with gun NOT triggered, inspect pump for internal/external leaks and check prime valve for leaks.                                    |                                  |

**Protect the internal drive parts of this sprayer from water.** Openings in shields allow cooling of mechanical parts and electronics inside. If water gets into these openings, the sprayer could malfunction or be permanently damaged.

## **Texture Hoses**

Check hose for damage every time you spray. Do not attempt to repair hose if hose jacket or fittings are damaged. Do not use hoses shorter than 25 ft (7.6 m).

## **Tips**

- Always clean tips with a soft brush after spraying.
- Tips may require replacement depending on abrasiveness of texture.

# **Troubleshooting**













- Follow Pressure Relief Procedure, page 9, before checking or repairing.
- 2. Check all possible problems and causes before disassembling the unit.

| Problem                        | Cause                     | Solution  |
|--------------------------------|---------------------------|---|
| Sprayer won't run              | Power switch not on       | Turn switch on.   |
|                                | No power at wall outlet   | Check outlet by plugging in another appliance. If appliance does not work, try another outlet.  |
|                                | Wrong size generator      | Use a 3500 watt or larger generator. Refer to Generator Requirements, page 10.  |
|                                | Circuit breaker tripped   | Reset breaker.  |
| Pump won't pump material       | Air lock                  | Open air valve on gun.  |
|                                | Mix too thick             | Add water to thin material. Use Material Thickness Gauge.   |
|                                | Loose fittings            | Check and retighten all fittings.   |
|                                | Plugged gun               | Perform Pressure Relief Procedure, page 9. Remove gun from hose. Clean gun.   |
|                                | Pump hose worn out        | Replace hose. Recommended hose replacement - once every year.   |
|                                | Pump cold                 | Move pump to warm room and allow it to warm up or run hot water through sprayer.  |
|                                | Material flow turned down | Turn up material flow control.  |
| Material runs out of bottom of | Pump hose worn out        | Replace hose.   |
| sprayer                        | Loose fittings            | Check and retighten all fittings.   |
| No air from compressor         | Gun air valve closed      | Open gun air valve.   |
|                                | Low voltage               | Check extension cord length and gauge. Replace if different than recommended. Refer to Grounding and Electrical Requirements, page 9. |
|                                | Gun needle plugged        | Clean needle and retry.   |
|                                | Worn compressor           | Replace compressor. Contact a qualified Graco Service Center.   |
|                                | Lines not connected       | Check all quick disconnect connections to gun and hoses.  |
|                                | Damaged hose.             | Replace hose.   |

# Troubleshooting

| Problem                                   | Cause                                  | Solution  |
|---|--|---|
| Speed of application slow or              | Material too thick                     | Thin material.  |
| slower                                    | Nozzle too small                       | Change nozzles to a larger size.<br>See Recommended Nozzle<br>Selection Chart, page 15.     |
|   | Too much air being used.               | Partially close gun air valve to reduce air flow.   |
|   | Pump hose worn                         | Replace hose.   |
|   | Plugged or dirty gun                   | Perform Pressure Relief Procedure, page 9. Clean gun.                                       |
|   | Kinked hose                            | Unkink hose.  |
|   | Gun adjustment set too low             | Increase flow adjustment with flow adjustment nut.  |
|   | Too many items on same circuit         | Unplug other items from circuit.  |
|   | Extension cord too long or wrong gauge | Use a different extension cord.<br>Refer to Grounding and Electric<br>Requirements, page 9. |
| Intermittent flow/sputtering              | Hopper connection not tight            | Check gasket. Tighten connection.   |
|   | Debris in system                       | Clean system.   |
| Quick disconnect does not stay connected. | Dirty or corroded fitting              | Clean thoroughly. Soak in oil.<br>Apply a few drops of light oil.                           |
| Gun will not shut off                     | Worn nozzle or needle.                 | Perform <b>Pressure Relief Procedure</b> , page 9. Replace worn parts.                      |
|   | Debris in needle passage               | Perform Pressure Relief Procedure, page 9. Clean.   |
| Fluid leaking at Flow Adjustment<br>Nut   | Damaged seal.                          | Perform Pressure Relief Procedure, page 9. Replace seal.                                    |
| Needle adjustment won't adjust            | Dirty threads                          | Clean threads.  |
|   | Nozzle not on gun                      | Put nozzle on gun.  |
|   |  |   |

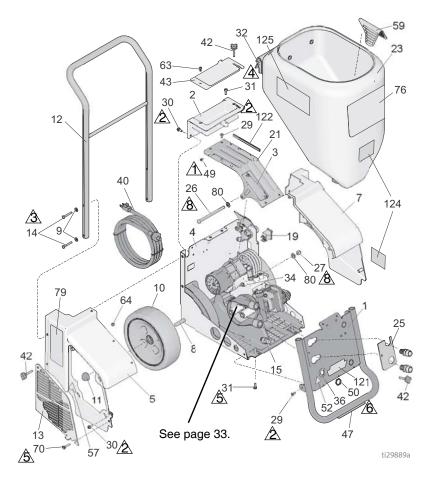
# Troubleshooting

| Problem  | Cause  | Solution  |
|--|--|---|
| Power switch is on and sprayer is plugged in, but motor does not run, and pump does not cycle. | Air valve on gun is closed or not open enough.       | Open air valve.   |
| run, and pump does not cycle.  | Motor or control is damaged.                         | Take sprayer to Graco authorized service center.  |
|  | Electric outlet is not providing power.              | Try a different outlet or plug in something that you know is working to test outlet.  Reset building circuit breaker or replace fuse.   |
|  | Extension cord is damaged.                           | Replace extension cord. See <b>Grounding</b> , page 9.  |
|  | Sprayer electric cord is damaged.                    | Check for broken insulation or wires. Replace electric cord if damaged.   |
|  | Material and/or water is frozen or hardened in pump. | Unplug sprayer from outlet. If frozen do NOT try to start sprayer until it is completely thawed or you may damage the motor, control board and/or drivetrain.                           |
|  |  | Make sure power switch is OFF. Place sprayer in a warm area for several hours. Then plug in powercord and turn sprayer ON. Slowly increase pressure setting to see if motor will start. |
|  |  | If material is hardened in<br>sprayer, pump or pressure<br>switch may need to be replaced.<br>Take sprayer to Graco<br>authorized service center.                                       |
|  | Prime valve is plugged (RTX2000pi and RTX2500pi).    | Remove and clean prime valve.   |
|  | Gun is plugged.                                      | Disassemble and clean gun.  |
| Sprayer continues to run when  | Pressure switch is damaged.                          | Replace pressure switch.  |
| gun trigger is released.   | Compressed air system leak.                          | Locate leak; check gun, twin line hose, or internal system. Reseal leaky fitting or replace hose.   |
|  | Flow switch is stuck.                                | Replace flow switch.  |
| Sprayer does not start when gun is triggered.  | Flow switch is stuck.                                | Replace flow switch.  |
| Sprayer cycles ON and OFF  | Pressure switch is damaged.                          | Replace pressure switch.  |
| when trigger is released.  or  Sprayer cycles ON and OFF when gun is triggered.                | Compressed air system leak.                          | Locate leak; check gun, twin line<br>hose, or internal system. Reseal<br>leaky fitting or replace hose.   |
| g g g  | Flow switch is stuck.                                | Replace flow switch.  |
|  | Check valve is damaged.                              | Replace check valve.  |

# RTX1400si Sprayer

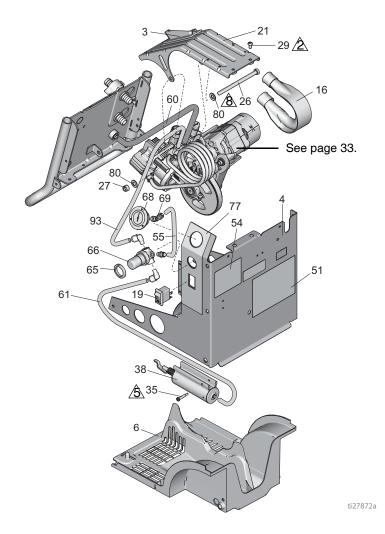
# RTX1400si Sprayer

| Ref.     | Torque                       | Ref.       | Torque   |
|----------|------------------------------|------------|--|
| 1        | 15-20 in-lb (1.7 - 2.3 N•m)  | <u>/</u> 5 | 27-32 in-lb (3.1 - 3.6 N•m)                        |
| 2        | 75-95 in-lb (8.5 - 10.7 N•m) | <u>6</u>   | 90-110 in-lb (10.2 - 12.4 N•m)                     |
| <u> </u> | 50-70 in-lb (5.6 - 7.9 N•m)  | 8          | 65-85 in-lb (7.3 - 9.6 N•m) then back off 1/4 turn |
| 4        | 40-50 in-lb (4.5 - 5.6 N•m)  |            |  |



# RTX1400si Sprayer (cont'd)

| Ref.        | Torque                       | Ref.     | Torque   |
|-------------|------------------------------|----------|--|
| $\triangle$ | 15-20 in-lb (1.7 - 2.3 N•m)  | <u></u>  | 27-32 in-lb (3.1 - 3.6 N•m)                        |
| 2           | 75-95 in-lb (8.5 - 10.7 N•m) | <u>6</u> | 90-110 in-lb (10.2 - 12.4 N•m)                     |
| <u> </u>    | 50-70 in-lb (5.6 - 7.9 N•m)  | 8        | 65-85 in-lb (7.3 - 9.6 N•m) then back off 1/4 turn |
| 4           | 40-50 in-lb (4.5 - 5.7 N•m)  |          |  |



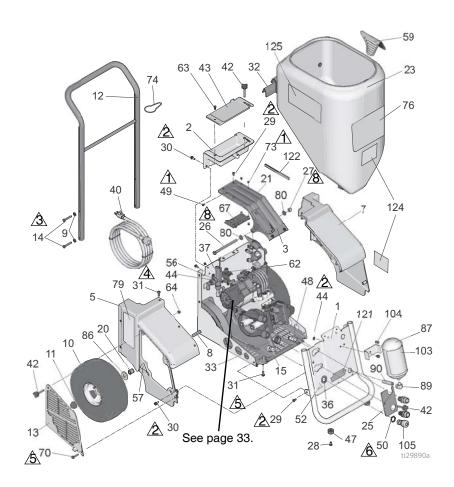
# RTX1400si Sprayer

## RTX1400si Sprayer Parts List

| Ref. | Part    | Description           | Qty. | Ref.                | Part      | Description                      | Qty.  |
|------|---------|-----------------------|------|---------------------|-----------|----------------------------------|-------|
| 1    | 17U971  | FRAME, front          | 1    | 49                  | 115498    | SCREW, mach, slot                | 2     |
| 2    | 15J600  | BOX, tool             | 1    | 50                  | 104227    | NUT, lock                        | 1     |
| 3    | 15H069  | SUPPORT, hopper       | 1    | 51▲                 | 15H841    | LABEL, warning                   | 1     |
| 4    | 17H404  | FRAME, back           | i    | 52▲                 | 15K616    | LABEL, caution                   | 1     |
| 5    | 17K497  | SHIELD                | i    | 54                  | 17J928    | LABEL, instructions              | 1     |
| 6    | 277319  | SHIELD, bottom        | 1    | 55                  | *         | TUBE, air, 0.250                 | 1     |
| 7    | 15J672  | SHIELD, left, painted | i    | 57▲                 | 16M768    | LABEL, warning                   | 1     |
| 8    | 15J671  | AXLE                  | 1    | 59                  | 17H638    | BAFFLE, hopper                   | 1     |
| 9    | 110755  | WASHER, plain         | 4    | 60                  | *         | TUBE, air, 0.250                 | 1     |
| 10   | 17K546  | WHEEL, 10" includes   | 2    | 61                  | *         | TUBE, air, 0.375                 | 1     |
|      | 1711010 | 11                    | _    | 63                  | 111831    | SCREW, skt, button               | 1     |
| 11   | 112612  | CAP, hub              | 2    | 64                  | 102040    | NUT, hex, lock                   |       |
| 12   | 17H418  | HANDLE, painted       | 1    | 65                  | 115244    | NUT, regulator                   | 1     |
| 13   | 17K511  | DOOR, shield          | 1    | 66                  | 117694    | KIT, regulator, air              | 1     |
| 14   | 102313  | SCREW, cap, hex       | 4    | 68                  | 117720    | GAUGE, pressure                  | 1     |
| 15   | 288336  | FITTING, bulkhead,    | 1    |                     |           | includes 69                      |       |
|      |         | assembly.             | •    | 69                  | 120653    | FITTING, push to con-            | 1     |
| 16   | 288623  | HOSE, coupled         | 1    |                     |           | nect                             |       |
| 19   | 120660  | SWITCH, rocker        | 1    | 70                  | 120444    | SCREW, mach, pnhd                | 1     |
| 21   | 15H910  | BRACKET, pump         | 1    | 76                  |           | LABEL, hopper, RTX               |       |
| 23   | 17P499  | HOPPER, 10 gallon     | 1    |                     | 17H625    | Model 17H572                     | 1     |
|      |         | includes 32, 59       |      |                     | 17P190    | Model 17P189                     | 1     |
| 25   | 17H410  | PLATE, hose           | 1    | 77                  | 17H522    | LABEL, control                   | 1     |
| 26   | 105240  | SCREW, cap, hex, hd   | 1    | 78                  | 246013    | KIT, meter hour, Model           | 1     |
| 27   | 113981  | NUT, lock             | 1    | 70                  | 4711007   | 17P189                           |       |
| 29   | 17W832  | SCREW                 | 6    | 79                  | 17H627    | LABEL, side RTX                  | 1     |
| 30   | 117633  | SCREW, slot, hex      | 3    | 80                  | 120215    | WASHER, Belleville               | 2     |
| 31   | 120771  | SCREW, mach, pnhd     | 5    | 93                  | <b>*</b>  | TUBE, air, 0.250                 | 1     |
| 32   | 17H490  | PAD, isolator         | 1    | 121                 | 17L030    | LABEL                            | 1     |
| 35   | 120236  | SCREW, shoulder       | 1    | 122                 | 17L120    | GROMMET, edge                    | 1     |
|      |         | (Series A)            |      | 124                 | 15E332    | LABEL, Home Depot<br>Tool Rental | 2     |
|      | 17B440  | SCREW, shoulder       | 1    | 125                 | 17P191    | LABEL, material mix-             | 1     |
|      |         | (Series B)            |      | 120                 | 171 101   | ing, Model 17P189                | •     |
| 36   | 120731  | WASHER, flat, thin    | 1    |                     |           | 3,                               |       |
| 38   | 289591  | CYLINDER, air, assy.  | 1    | *                   | 17L017    | KIT, tube, air includes          | 1     |
| 40   | 16M501  | CORD, power           | 1    |                     |           | 55, 60, 61, 93                   |       |
| 42   | 15J862  | KNOB                  | 3    | $\blacktriangle Re$ | placement | t Danger and Warning lai         | bels, |
| 43   | 15D561  | COVER, tool tray      | 1    |                     |           | s are available at no cost       |       |
| 47   | 120759  | PAD, non-slip, foot   | 1    | J - ,               |           |                                  |       |

# RTX2000pi Sprayer

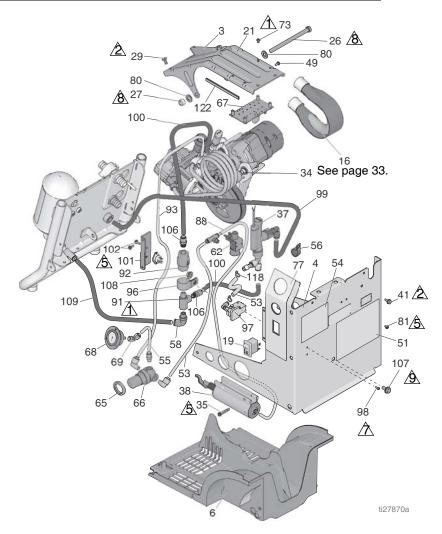
| Ref. | Torque                       | Ref.     | Torque   |
|------|------------------------------|----------|--|
| 1    | 15-20 in-lb (1.7 - 2.3 N•m)  | <u></u>  | 27-32 in-lb (3.1 - 3.6 N•m)                        |
| 2    | 75-95 in-lb (8.5 - 10.7 N•m) | <u>6</u> | 90-110 in-lb (10.2 - 12.4 N•m)                     |
| 3    | 50-70 in-lb (5.6 - 7.9 N•m)  | 8        | 65-85 in-lb (7.3 - 9.6 N•m) then back off 1/4 turn |
| 4    | 40-50 in-lb (4.5 - 5.7 N•m)  |          |  |



# RTX2000pi Sprayer

## RTX2000pi Sprayer (cont'd)

| Ref.        | Torque                       | Ref.     | Torque   |
|-------------|------------------------------|----------|--|
| $\triangle$ | 15-20 in-lb (1.7 - 2.3 N•m)  | <u>6</u> | 90-110 in-lb (10.2 - 12.4 N•m)                     |
| 2           | 75-95 in-lb (8.5 - 10.7 N•m) | A        | 9-11 in-lb (1- 1.2 N•m)                            |
| 3           | 50-70 in-lb (5.6 - 7.9 N•m)  | 8        | 65-85 in-lb (7.3 - 9.6 N•m) then back off 1/4 turn |
| 4           | 40-50 in-lb (4.5 - 5.7 N•m)  | <u></u>  | 120-130 in-lb (13.6 - 14.7 N•m)                    |
| <u>\$</u>   | 27-32 in-lb (3.1 - 3.6 N•m)  |          |  |



# RTX2000pi Sprayer

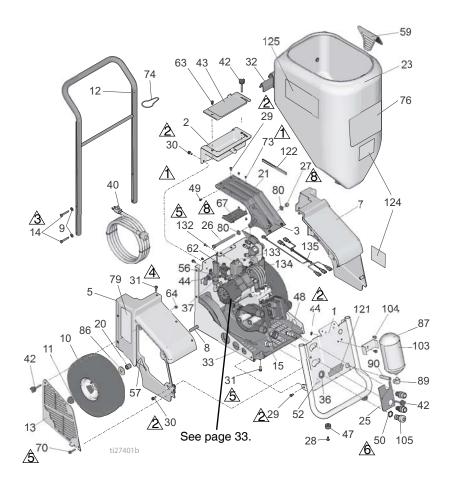
# RTX2000pi Sprayer Parts List

|          |                  | - · ·                           |        | Dof | Dort      | Description  | Qty. |
|----------|------------------|---------------------------------|--------|-----|-----------|--|------|
|          | Part             | Description                     | Qty.   |     | Part      | Description  |      |
| 1        | 17U971           | FRAME, front                    | 1      | 66  | 117694    | KIT, regulator, air                                | 1    |
| 2        | 15J600           | BOX, tool                       | 1      | 67  | 17K598    | KIT, repair, circuit board                         | 1    |
| 3        | 15H069           | SUPPORT, hopper                 | 1      | 68  | 117720    | includes 73, 101, 102<br>GAUGE, pressure, includes | 1    |
| 4        | 17H404           | FRAME, back                     | 1      | 00  | 117720    | 69   | 1    |
| 5        | 17K497           | SHIELD, right                   | 1      | 69  | 120653    | FITTING, push to connect                           | 1    |
| 6        | 277319           | SHIELD, bottom                  | 1      | 70  | 120444    | SCREW, mach, pnhd                                  | i    |
| 7        | 15J672           | SHIELD, left                    | 1      | 73  | 120743    | SCREW, mach, phild                                 | 4    |
| 8        | 17H429           | AXLE                            | 1      | 74  | 121092    | CLIP, spring, Model 17H574,                        |      |
| 9        | 110755           | WASHER, plain                   | 4      | , - | 121002    | 17K301   | •    |
| 10       | 17K531           | WHEEL, pneumatic                | 2      | 76  |           | LABEL, hopper, RTX                                 |      |
| 11       | 112612           | CAP, hub                        | 2      | . • | 17J506    | Model 17H573                                       | 1    |
| 12       | 17H418           | HANDLE, painted                 | 1      |     | 17H626    | Model 17H574, 17K301                               | 1    |
| 13       | 17K511           | DOOR, shield                    | 1<br>4 | 77  | 17H522    | LABEL, control                                     | 1    |
| 14<br>15 | 102313<br>288336 | SCREW, cap, hex                 | 1      | 78  | 246013    | KIT, meter hour, Model                             | 1    |
| 16       | 288623           | FITTING, bulkhead               | 1      |     |           | 17H574, 17K301                                     |      |
| 19       | 120660           | HOSE, coupled<br>SWITCH, rocker | 1      | 79  | 17H627    | LABEL, side RTX                                    | 1    |
| 20       | 17K530           | SPACER, wheel                   | 2      | 80  | 120215    | WASHER, Belleville                                 | 2    |
| 21       | 15H910           | BRACKET, pump                   | 1      | 81  | 17J525    | SCREW, mach, slot                                  | 2    |
| 23       | 17P498           | HOPPER, 13 gallon,              | i      | 86  | 17K529    | WASHER, plain, wide                                | 2    |
| 20       | 171 400          | includes 32, 59                 | •      | 87  | 17K593    | KIT, repair, accumulator tank                      |      |
| 25       | 17H410           | PLATE, hose                     | 1      |     |           | includes 44, 48, 89, 90, 103,                      |      |
| 26       | 105240           | SCREW, cap, hex, hd             | 1      |     |           | 104  |      |
| 27       | 113981           | NUT. lock                       | 1      | 88  | *         | TUBE, air, 0.250                                   | 1    |
| 28       | 120411           | RIVOT, blind                    | 2      | 89  | 121150    | FITTING, elbow                                     | 1    |
| 29       | 17W832           | ,                               | 6      | 90  | 100124    | NIPPLE, pipe                                       | 1    |
| 30       | 117633           | SCREW, slot, hex                | 3      | 91  | 116504    | FITTING, tee                                       | 1    |
| 31       | 120771           | SCREW, mach, pnhd               | 5      | 92  | 17K595    | KIT, repair, check valve                           | 1    |
| 32       | 17H490           | PAD, isolator                   | 1      |     |           | includes 58, 91, 96, 106, 107,<br>108              |      |
| 33       | 24Z003           | ADAPTER, swivel                 | 1      | 93  | *         | TUBE, air, 0.250                                   | 1    |
| 35       | 120236           | SCREW, shoulder (Series A)      |        | 96  | 128051    | CLAMP, loop  | i    |
|          | 17B440           | SCREW, shoulder (Series B)      | ) 1    | 97  | 17K596    | KIT, repair, pressure switch                       | 1    |
| 36       | 120731           | WASHER, flat, thin              | 1      | ٠.  |           | includes 53, 98, 118                               | •    |
| 37       | 17K594           | KIT, repair, flow switch        | 1      | 98  | 117317    | SCREW, plastite                                    | 2    |
|          |                  | includes 41, 44, 53, 56, 118,   |        | 99  | *         | TUBE, air, 0.375                                   | 1    |
| 00       | 000504           | 123                             |        | 100 |           | TUBE, air, 0.375                                   | 2    |
| 38       | 289591           | CYLINDER, air, assy.            | 1      | 101 | 17J638    | BRACKET, mounting                                  | 1    |
| 40       | 16M501           | CORD, power                     | 1      | 102 | 118444    | SCREW, mach, slot, hex                             | 4    |
| 41       | 108526           | SCREW, mach<br>KNOB             | 2      |     | 17J933    | LABEL, smart start                                 | 1    |
| 42<br>43 | 15J862           | COVER, tool tray                | 3<br>1 | 104 | 100403    | PLUG, pipe   | 1    |
| 44       | 15D561<br>115942 | NUT, hex, flange head           | 3      |     | 110198    | COUPLER, line, air                                 | 1    |
| 47       | 17J201           | BUMPER, recessed                | 2      |     | 17J393    | FITTING, tube, straight                            | 2    |
| 48       | 16F710           | CONNECTOR, 3/8                  | 1      | 107 |           | SCREW, cap hex, hd                                 | 1    |
| 49       | 115498           | SCREW, mach, slot               | 2      | 108 | 110996    | NUT, hex, flange head                              | 1    |
| 50       | 104227           | NUT, lock                       | 1      | 109 | *         | TUBE, air, 0.375                                   | 2    |
|          | 15H841           | LABEL, warning                  | i      | 118 | 17L903    | CLAMP, spring tube                                 | 2    |
|          | 15K616           | LABEL, caution                  | 1      | 119 | <b>★</b>  | TUBE, air  | 1    |
| 53       | *                | TUBE, air, 0.365                | 2      | 121 | 17L028    | LABEL, pi models                                   | 1    |
| 54       | 17H629           | LABEL, instructions             | 1      | 122 | 17L120    | GROMMET, edge                                      | 1    |
| 55       | *                | TUBE, air, 0.250                | 1      | 123 | 155000    | FITTING  | 1    |
| 56       | 120830           | CLAMP, loop                     | 1      | 124 | 15E332    | LABEL, Home Depot Tool<br>Rental                   | 2    |
| 57▲      | 16M768           | LABEL, warning                  | 1      | 125 | 17P192    | LABEL, material mixing,                            | 1    |
| 58       | 121141           | FITTING, elbow, swivel          | 1      | 123 | 171 132   | Model 17K301                                       | '    |
| 59       | 17H638           | BAFFLE, hopper                  | 1      |     |           | Wodel 171001                                       |      |
| 62       | 17K597           | KIT, repair, solenoid valve     | 1      | *   | 17L017    | KIT, tube, air includes 53,                        | 1    |
|          |                  | includes 81                     | _      |     | •         | 55, 88, 93, 99, 100, 109, 119                      |      |
| 63       | 111831           | SCREW, skt, button              | 1      |     |           | nt Danger and Warning labels,                      |      |
| 64       | 102040           | NUT, hex, lock                  | 1      | and | cards are | available at no cost.                              |      |
| 65       | 115244           | NUT, regulator                  | 1      |     |           |  |      |

# RTX2500pi Sprayer

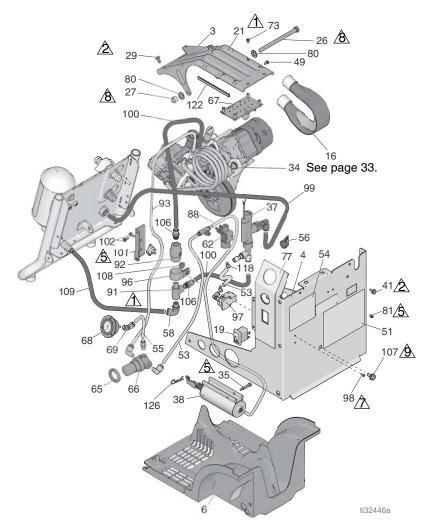
# RTX2500pi Sprayer

| Ref.     | Torque                       | Ref. | Torque   |
|----------|------------------------------|------|--|
| <u>1</u> | 15-20 in-lb (1.7 - 2.3 N•m)  | 5    | 27-32 in-lb (3.1 - 3.6 N•m)                        |
| 2        | 75-95 in-lb (8.5 - 10.7 N•m) | 707  | 90-110 in-lb (10.2 - 12.4 N•m)                     |
| 3        | 50-70 in-lb (5.6 - 7.9 N•m)  | 8    | 65-85 in-lb (7.3 - 9.6 N•m) then back off 1/4 turn |
| <u> </u> | 40-50 in-lb (4.5 - 5.7 N•m)  |      |  |



## RTX2500pi Sprayer (cont'd)

| Ref.        | Torque                       | Ref.     | Torque   |
|-------------|------------------------------|----------|--|
| $\triangle$ | 15-20 in-lb (1.7 - 2.3 N•m)  | <u>6</u> | 90-110 in-lb (10.2 - 12.4 N•m)                     |
| 2           | 75-95 in-lb (8.5 - 10.7 N•m) | A        | 9-11 in-lb (1- 1.2 N•m)                            |
| 3           | 50-70 in-lb (5.6 - 7.9 N•m)  | 8        | 65-85 in-lb (7.3 - 9.6 N•m) then back off 1/4 turn |
| <u> </u>    | 40-50 in-lb (4.5 - 5.7 N•m)  | <u></u>  | 120-130 in-lb (13.6 - 14.7 N•m)                    |
| <u>/</u> 5  | 27-32 in-lb (3.1 - 3.6 N•m)  |          |  |



# RTX2500pi Sprayer

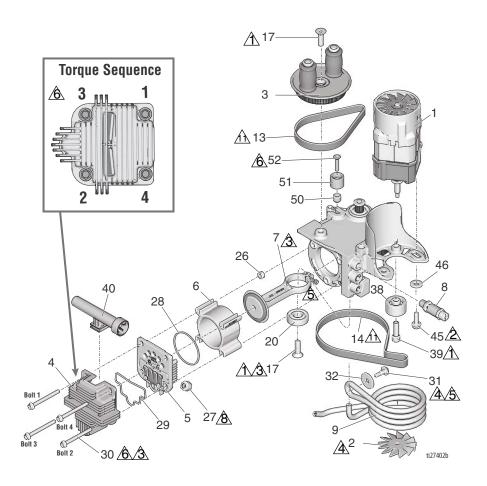
## RTX2500pi Sprayer Parts List

| Ref.     | Part             | Description                                | Qty.   | Ref.        | Part             | Description                                  | Qty.   |
|----------|------------------|--|--------|-------------|------------------|--|--------|
| 1        | 17U971           | FRAME, front                               | 1      |             | 17W421           | KIT, repair, 230V circuit board              | 1      |
| 2        | 15J600           | BOX, tool                                  | 1      |             |                  | includes 73, 101, 102                        |        |
| 3        | 15H069           | SUPPORT, hopper                            | 1      | 68          | 117720           | GAUGE, pressure, includes 69                 | 1      |
| 4        | 17H404           | FRAME, back                                | 1      | 69          | 120653           | FITTING, push to connect                     | 1      |
| 5        | 17K497           | SHIELD, right                              | 1      | 70          | 120444           | SCREW, mach, pnhd                            | 1      |
| 6        | 277319           | SHIELD, bottom                             | 1      | 73          | 120743           | SCREW, mach, pnhd                            | 4      |
| 7        | 15J672           | SHIELD, left                               | 1      | 74          | 121092           | CLIP, spring, Model 17H574,                  | 1      |
| 8        | 17H429           | AXLE                                       | 1      | 76          |                  | 17K301                                       |        |
| 9        | 110755           | WASHER, plain                              | 4      | 76          | 17U160           | LABEL, hopper, RTX<br>Model 17U219, 17V582   | 1      |
| 10       | 17K531           | WHEEL, pneumatic                           | 2      |             | 17U160           | Model 170219, 170362<br>Model 17U220, 17U221 | 1      |
| 11       | 112612           | CAP, hub                                   | 2      | 77          | 170614<br>17H522 | LABEL, control                               | i      |
| 12       | 17H418           | HANDLE, painted                            | 1      | 78          | 246013           | KIT, meter hour, Model 17U220,               | i      |
| 13       | 17K511           | DOOR, shield                               | 1      | 70          | 240010           | 17U221                                       | •      |
| 14       | 102313           | SCREW, cap, hex                            | 4      | 79          | 17H627           | LABEL, side RTX                              | 1      |
| 15       | 288336           | FITTING, bulkhead                          | 1      | 80          | 120215           | WASHER, Belleville                           | 2      |
| 16       | 288623           | HOSE, coupled                              | 1      | 81          | 17J525           | SCREW, mach, slot                            | 2      |
| 19       | 120660           | SWITCH, rocker                             | 1      | 86          | 17K529           | WASHER, plain, wide                          | 2      |
| 20<br>21 | 17K530           | SPACER, wheel                              | 2<br>1 | 87          | 17K593           | KIT, repair, accumulator tank                | 1      |
|          | 15H910           | BRACKET, pump                              |        |             |                  | includes 44, 48, 89, 90, 103, 104            |        |
| 23<br>25 | 17V410<br>17H410 | HOPPER, 15 gallon<br>PLATE, hose           | 1<br>1 | 88          | *                | TUBE, air, 0.250                             | 1      |
| 26       | 105240           | SCREW, cap, hex, hd                        | i      | 89          | 121150           | FITTING, elbow                               | 1      |
| 27       | 113981           | NUT, lock                                  | i      | 90          | 100124           | NIPPLE, pipe                                 | 1      |
| 28       | 120411           | RIVOT, blind                               | 2      | 91          | 116504           | FITTING, tee                                 | 1      |
| 29       | 17W832           | SCREW, hex, hd                             | 6      | 92          | 17K595           | KIT, repair, check valve <i>includes</i>     | 1      |
| 30       | 117633           | SCREW, slot, hex                           | 3      |             |                  | 58, 91, 96, 106, 107, 108                    |        |
| 31       | 120771           | SCREW, mach, pnhd                          | 5      | 93          | *                | TUBE, air, 0.250                             | 1      |
| 32       | 17H490           | PAD, isolator                              | ĭ      | 96          | 128051           | CLAMP, loop                                  | 1      |
| 33       | 24Z003           | ADAPTER, swivel                            | 1      | 97          | 17K596           | KIT, repair, pressure switch                 | 1      |
| 35       | 17B440           | SCREW, shoulder                            | 1      | 98          | 117317           | includes 53, 98, 118                         | 2      |
| 36       | 120731           | WASHER, flat, thin                         | 1      | 99          | †1/31/<br>★      | SCREW, plastite<br>TUBE, air, 0.375          | 1      |
| 37       | 17K594           | KIT, repair, flow switch includes          | 1      | 100         | *                | TUBE, air, 0.375                             | 2      |
|          |                  | 41, 44, 53, 56, 118, 123                   |        | 101         | 17J638           | BRACKET, mounting                            | 1      |
| 38       | 17U095           | CYLINDER, air, assy.                       | 1      | 102         | 118444           | SCREW, mach, slot, hex                       | 4      |
| 40       | 16M501           | CORD, power                                | 1      | 103         | 17J933           | LABEL, smart start                           | i      |
|          | 17V511           | CORD, power 230V                           | 1      | 104         | 100403           | PLUG, pipe                                   | i      |
| 41       | 108526           | SCREW, mach                                |        | 105         | 110198           | COUPLER, line, air                           | i      |
| 42       | 15J862           | KNOB                                       | 3      | 106         | 17J393           | FITTING, tube, straight                      | 2      |
| 43       | 15D561           | COVER, tool tray                           | 1      | 107         | 111800           | SCREW, cap hex, hd                           | 1      |
| 44       | 115942           | NUT, hex, flange head                      | 3      | 108         | 110996           | NUT, hex, flange head                        | 1      |
| 47       | 17J201           | BUMPER, recessed                           | 2      | 109         | *                | TUBE, air, 0.375                             | 2      |
| 48       | 16F710           | CONNECTOR, 3/8                             | 1      | 118         | 17L903           | CLAMP, spring tube                           | 2      |
| 49       | 115498           | SCREW, mach, slot                          | 2      | 119         | *                | TUBE, air                                    | 1      |
| 50       | 104227           | NUT, lock                                  | 1<br>1 | 121         | 17L028           | LABEL, pi models                             | 1      |
| 51▲      | 15H841<br>17V739 | LABEL, warning<br>LABEL, warning, ISO      | 1      | 122         | 17L120           | GROMMET, edge                                | 1      |
| 52▲      | 15K616           | LABEL, warning, 130                        | i      | 123         |                  | FITTING                                      | 1      |
| 53       | ±                | TUBE, air, 0.365                           | 2      | 124         | 15E332           | LABEL, Home Depot Tool                       | 2      |
| 54       | 17H629           | LABEL, instructions                        | 1      |             | .=5              | Rental                                       |        |
| 55       | *                | TUBE, air, 0.250                           | i      | 125         | 17P192           | LABEL, material mixing, Model                | 1      |
| 56       | 120830           | CLAMP, loop                                | i      | 100         | 114014           | 17K301                                       | 4      |
| 57▲      | 16M768           | LABEL, warning                             | i      | 126<br>127  | 114814<br>242001 | PIN, cotter                                  | 1<br>1 |
| 58       | 121141           | FITTING, elbow, swivel                     | 1      | 127         | 242001           | CORD SET, adapter, Europe, 230V              |        |
| 59       | 17H638           | BAFFLE, hopper                             | 1      | 128         | 242005           | CORD SET, adapter, Aus., 230V                | 1      |
| 62       | 17K597           | KIT, repair, solenoid valve                | 1      | 132         | 121803           | SCREW, cap, button head, 230V                | 2      |
|          |                  | includes 81                                |        | 133         | 115483           | NUT, lock, 230V                              | 2      |
|          | 24S144           | KIT, repair, solenoid valve, 230V          |        | 134         | 116168           | FILTER, EMI, 230V                            | 1      |
|          |                  | includes 81                                |        | 135         | 17W166           | HARNESS, wire, EMI, 230V                     | i      |
| 63       | 111831           | SCREW, skt, button                         | 1      |             |                  |  | •      |
| 64       | 102040           | NUT, hex, lock                             | 1      | *           | 17L017           | KIT, tube, air <i>includes 53, 55, 88</i> ,  | 1      |
| 65       | 115244           | NUT, regulator                             | 1      |             |                  | 93, 99, 100, 109, 119                        | -      |
| 66       | 117694           | KIT, regulator, air                        | 1      | <b>▲</b> Re | eplacement l     | Danger and Warning labels, tags, a           | and    |
| 67       | 17K598           | KIT, repair, circuit board <i>includes</i> | 3 1    |             |                  | le at no cost.                               |        |
|          |                  | 73, 101, 102                               |        |             |                  |  |        |

# Compressor Parts

# **Compressor Parts**

| Ref.    | Torque  | Ref.      | Torque   |
|---------|---|-----------|--|
| 1       | 18-22 ft-lb (24.4 - 29.8 N•m)   | <u>\$</u> | 50-65 in-lb (5.7 - 7.3 N•m)  |
| 2       | 190-230 in-lb (21.5 - 26 N•m)   |           | 120-140 in-lb (13.6 - 15.8 N•m) Finger tighten cap screw in position 1 first. Then torque cap screws in 2, 3, 4, and 1 sequence illustrated. |
|         | Piston retaining bolt & crankshaft bolts must torqued before head bolts (30) are torqued. | <u></u>   | Hand tighten, then 2 full turns  |
| <u></u> | 60-72 in-lb (6.8 - 8.1 N•m)   | Δì        | Tension to 15-25 lb (66.7-111.2 N)   |

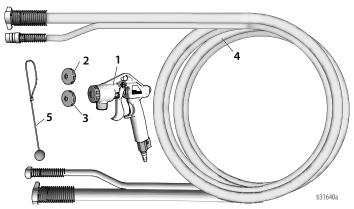


# Compressor Parts

## **Compressor Parts List**

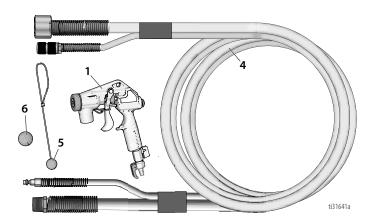
| Ref. | Part   | Description  | Qty. | Ref. | Part   | Description                     | Qty. |
|------|--------|--|------|------|--------|---------------------------------|------|
|      | 24S128 | KIT, repair, compressor,                                   | 1    | 9    | 24S133 | KIT, repair, cooler includes 27 | 1    |
|      | 17V643 | complete, 120V<br>KIT, repair, compressor,                 | 1    | 13   | 120234 | BELT, 3mm, timing               | 1    |
|      |        | complete, 230V   |      | 14*  | 120233 | BELT, 3mm, timing               | 1    |
| 1    | 17K879 | KIT, repair, motor, uni-                                   | 1    | 17*  | 120204 | SCREW, mach, hex                | 2    |
|      |        | versal, 120V includes 2,                                   |      | 20*  | 120227 | BEARING, ball                   | 1    |
|      |        | 14, 45, 46   |      | 26*  | 17H525 | SPACER, compressor              | 4    |
|      | 17V642 | KIT, repair, motor, uni-                                   | 1    | 28*  | 17H554 | O-RING, square                  | 1    |
|      |        | versal, 230V includes 2,                                   |      | 29*  | 17H555 | O-RING, formed square           | 1    |
|      |        | 14, 45, 46   |      | 30*  | 17H560 | SCREW, cap serrated             | 4    |
| 2    | 120466 | FAN, motor   | 1    |      |        | flange head                     | •    |
| 3    | 288616 | PULLEY, with rollers                                       | 1    | 31   | 119872 | SCREW, shoulder                 | 1    |
|      |        | includes 13, 17  |      | 32   | 120659 | WASHER, flat                    | i    |
| 4*   | 24S130 | KIT, repair, head, com-                                    | 1    | 38   | 288611 | KIT, repair, idler includes     | 1    |
|      |        | pressor <i>includes 5, 28,</i><br><i>29</i>                |      |      |        | 14, 39                          | •    |
| 5*   | 24S131 | KIT, repair, plate, valve                                  | 1    | 39   | C20021 | SCREW, cap, skt head            | 1    |
| 0    | 240101 | includes 28. 29  | '    | 40*  | 17H657 | MUFFLER, compressor             | 1    |
| 6*   | 17H553 | CYLINDER, compressor                                       | 1    | 45   | 260215 | SCREW, hex head                 | 2    |
| 7*   | 24S132 | KIT, repair, piston/cylin-                                 | 1    | 46   | 100023 | WASHER, flat                    | 2    |
| ′    | 243132 | der <i>includes 5</i> , <i>6</i> , <i>17</i> , <i>20</i> , | ļ    |      |        |                                 |      |
|      |        | 28. 29   |      | *    | 24S129 | KIT, repair, compressor,        |      |
| 8    | 120617 | VALVE, pressure relief                                     | 1    |      |        | rebuild                         |      |
| 0    | 120017 | VALVE, prossure relief                                     |      |      |        |                                 |      |

## Gun & Hose RTX1400si



| Ref. | Part   | Description             | Qty. |
|------|--------|-------------------------|------|
| 1    | 288629 | GUN, spray, texture     | 1    |
| 2    | 15B171 | NOZZLE, black, 12mm, #3 | 1    |
| 3    | 15D525 | NOZZLE, beige, 4mm      | 1    |
| 4    | 17J454 | HOSE, texture, blue     | 1    |
| 5    | 15C090 | GAUGE, thickness, fluid | 1    |
| 7    | 115099 | WASHER, garden hose     | 1    |

## RTX2000pi and RTX2500pi

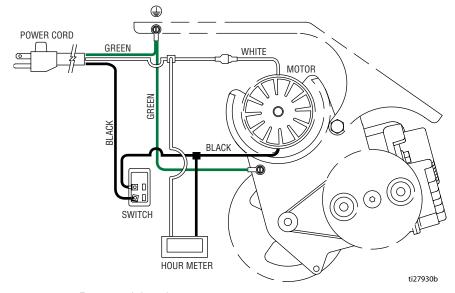


| Ref. | Part   | Description             | Qty. |
|------|--------|-------------------------|------|
| 1    | 24S134 | GUN, spray, texture     | 1    |
| 4    | 17J420 | HOSE, texture, 2line    | 1    |
| 5    | 15C090 | GAUGE, thickness, fluid | 1    |
| 6    | 113397 | BALL, sponge, 30mm      | 2    |
| 7    | 115099 | WASHER, garden hose     | 1    |

# Wiring Diagram

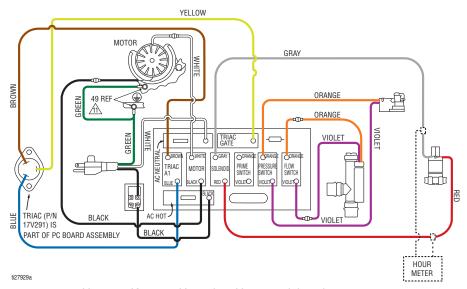
# **Wiring Diagram**

## RTX1400si



Hour meter on 17P189 models only.

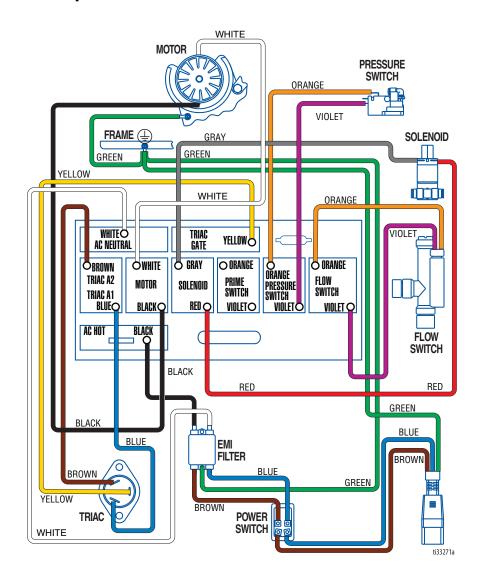
## RTX2000pi and RTX2500pi



Hour meter on 17H574, 17K301, 17U220 & 17U221 models only.

## **Wiring Diagram**

## RTX2500pi - 230V



# Technical Specifications

# **Technical Specifications**

|                                | US  | Metric                       |  |  |  |  |  |
|--------------------------------|---|------------------------------|--|--|--|--|--|
| Sprayer                        |   |                              |  |  |  |  |  |
| Material Hopper Capacity       |   |                              |  |  |  |  |  |
| RTX1400si                      | 10 gal  | 38 I                         |  |  |  |  |  |
| RTX2000pi                      | 13 gal  | 49                           |  |  |  |  |  |
| RTX2500pi                      | 15 gal  | 57 I                         |  |  |  |  |  |
| Maximum Delivery with Texture  |   |                              |  |  |  |  |  |
| RTX1400si                      | 1.4 gpm                                       | 5.3 lpm                      |  |  |  |  |  |
| RTX2000pi                      | 2.0 gpm                                       | 7.6 lpm                      |  |  |  |  |  |
| RTX2500pi                      | 2.5 gpm                                       | 9.5 lpm                      |  |  |  |  |  |
| Maximum Fluid Working Pressure |   |                              |  |  |  |  |  |
| RTX 1400si / 2000pi            | 70 psi  | 4.8 bar, 0.48 MPa            |  |  |  |  |  |
| RTX 2500pi                     | 100 psi                                       | 6.9 bar, 0.69 MPa            |  |  |  |  |  |
| Maximum Air Working Pressure   | 45 psi  | 3.1 bar, 0.31 MPa            |  |  |  |  |  |
| Compressor Air Displacement    | 6.1 cfm @ 20psi                               | 17.3 l/m @ 1.4 bar, 0.14 Mpa |  |  |  |  |  |
| Compressor Specifications      | Universal motor thermally protected, oil-less |                              |  |  |  |  |  |
| Electric Motor                 | Universal AC 15 Amp 1.5 Hp                    |                              |  |  |  |  |  |
| Electrical Motor - 230V        | Universal AC                                  | 10 Amp 1.5 Hp                |  |  |  |  |  |
| Power Cord                     | 14 AWG, 3-wire, 25 ft                         |                              |  |  |  |  |  |
| Power Cord - 230V              | 1.0mm <sup>2</sup> , 3-wire, 7.6m             |                              |  |  |  |  |  |
| Generator Minimum              | 3500 W  |                              |  |  |  |  |  |
| Power Requirements             | 110–120V, 15 A, 1Ø                            |                              |  |  |  |  |  |
| Power Requirements - 230V      | 220–240V, 50                                  | /60 Hz,10 A, 1Ø              |  |  |  |  |  |
| Dimensions                     |   |                              |  |  |  |  |  |
| Height                         |   |                              |  |  |  |  |  |
| RTX1400si                      | 40.9 in.                                      | 104 cm                       |  |  |  |  |  |
| RTX2000pi / RTX2500pi          | 41.6 in.                                      | 106 cm                       |  |  |  |  |  |
| Length                         |   |                              |  |  |  |  |  |
| RTX1400si                      | 23.6 in.                                      | 60 cm                        |  |  |  |  |  |
| RTX2000pi / RTX2500pi          | 24.25 in.                                     | 62 cm                        |  |  |  |  |  |
| Width                          |   |                              |  |  |  |  |  |
| RTX1400si                      | 19.38 in.                                     | 49 cm                        |  |  |  |  |  |
| RTX2000pi / RTX2500pi          | 22.2 in.                                      | 56 cm                        |  |  |  |  |  |
| Weight (includes hose and gun) |   |                              |  |  |  |  |  |
| RTX1400si                      | 74.3 lb.                                      | 33.7 kg                      |  |  |  |  |  |
| RTX2000pi / RTX2500pi          | 86 lb.  | 39 kg                        |  |  |  |  |  |
| Weight (gun)                   |   |                              |  |  |  |  |  |
| RTX1400si                      | 1.4 lb.                                       | 0.6 kg                       |  |  |  |  |  |

# Technical Specifications

|   | US  | Metric        |  |  |  |  |
|---|---|---------------|--|--|--|--|
| RTX2000pi / RTX2500pi   | 2.3 lb.   | 1.0 kg        |  |  |  |  |
| Noise** (dBa) @ max air pressure)   |   |               |  |  |  |  |
| Sound pressure  | 88.4  | 88.4 dBa      |  |  |  |  |
| Sound power   | 102.8 dBa   |               |  |  |  |  |
| Storage temperature range ◆◆  | –35° to 160°F   | –1.6° to 71°C |  |  |  |  |
| Operating temperature range 🗸   | 40° to 115°F  | 4° to 46°C    |  |  |  |  |
| Materials of Construction   |   |               |  |  |  |  |
| Wetted materials on all models  | brass, aluminum, plastic, stainless steel, plated carbon steel, elastomer |               |  |  |  |  |
| Notes   |   |               |  |  |  |  |
| * Startup pressures and displacement per cycle may vary based on suction condition, discharge head, air pressure, and fluid type.  ** Sound pressure measured 3 feet (1 meter) from equipment while spraying. |   |               |  |  |  |  |

♦ Pump damage will occur if water-based fluid freezes in pump.

Sound power measured per ISO-9614.

- Damage to plastic parts may result if impact occurs in low temperature conditions.
- ✓ Temperature affects material viscosity, which can affect sprayer performance.

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