

TruMix XT[™] Variable Ratio Mixing System

3B0119A

ΕN

Electric variable ratio mixing system for the application of two-component coatings. For professional use only. Not approved for use in explosive atmospheres or hazardous (classified) locations.

Model: 2003102, 2003103

600 psi (4.13 MPa, 41.3 bar) Maximum Working Pressure

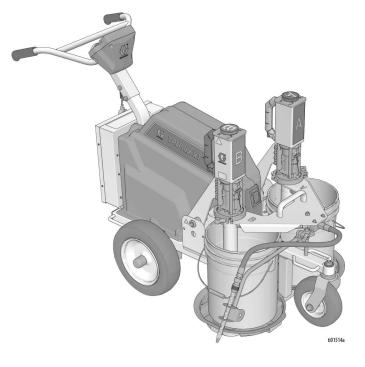
See page 3 for model information and approvals.



Important Safety Instructions

Read all warnings and instructions in this manual before using the equipment. Be familiar with the proper control and usage of the equipment. Save these instructions.







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Models

| | | | ovals |
|---------|-----------------|----|-------|
| Part | Description | CE | |
| 2003102 | TruMix XT, 120V | | |
| 2003103 | TruMix XT, 230V | 1 | 1 |

Important Grounding Information

The following information is intended to help you understand when to use the grounding wire and clamp provided with your system. It is required when flushing or cleaning with flammable materials.

Please read the information on the material container label to determine if it is flammable. Ask for a Safety Data Sheet (SDS) from your supplier. The container label and SDS will explain the contents of the material and the specific precautions related to it.

Flushing and clean-up materials generally fit into one of the following 3 basic types:

| Grounding Wire and Clamp Required? | Type of Flushing or Cleaning Material |
|---|---|
| YesFLAMMABLE: This type of material contains flammable solvents such as x toluene, naphtha, MEK, lacquer thinner, acetone, denatured alcohol, and tu The container label should indicate that this material is FLAMMABLE. Use fla materials outdoors or in a well-ventilated area with a flow of fresh air. Follow | |
| No | OIL-BASED: The container label should indicate that the material is COMBUSTIBLE and can be cleaned up with mineral spirits or non-flammable paint thinner. |
| No | WATER: The container label of the material being applied should indicate that it can be cleaned with soap and water. |

Safety Symbols

The following safety symbols appear throughout this manual and on warning labels. Read the table below to understand what each symbol means.

| Symbol | Meaning | Symbol | Meaning |
|-------------|------------------------------|-----------------|---------------------------------------|
| | Burn Hazard | | Do Not Expose to Water or Rain |
| | Electric Shock Hazard | | Eliminate Ignition Sources |
| | Equipment Misuse Hazard | MPa / bar / PSI | Follow Pressure Relief Procedure |
| | Fire and Explosion Hazard | | Ground Equipment |
| | Moving Parts Hazard | | Read Manual |
| MPa/bar/PSI | Pressurized Equipment Hazard | | Unplug Equipment |
| | Splash Hazard | | Ventilate Work Area |
| | Toxic Fluid or Fumes Hazard | | Wear Personal Protective Equipment |

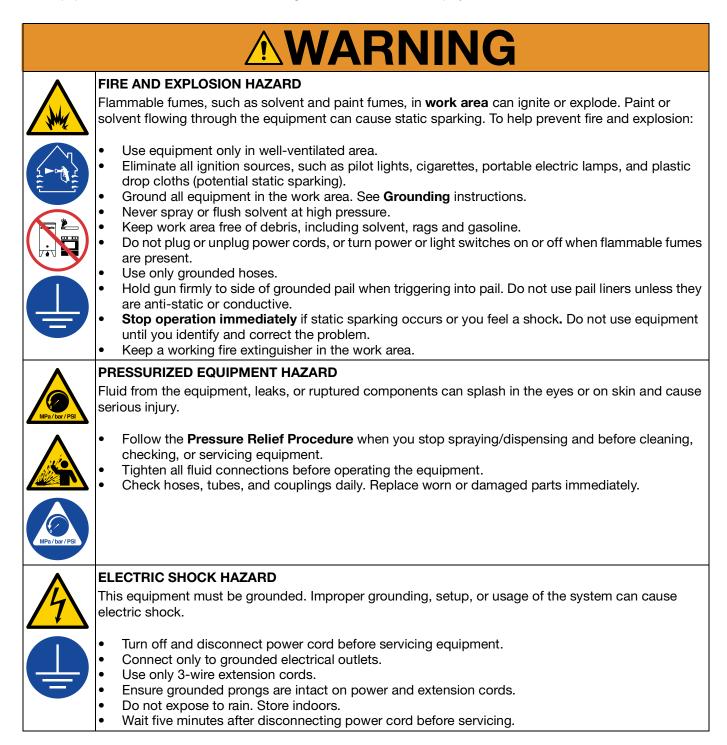


Safety Alert Symbol

This symbol indicates: Attention! Become Alert! Look for this symbol throughout the manual to indicate important safety messages.

General Warnings

The following warnings apply throughout this manual. Read, understand, and follow the warnings before using this equipment. Failure to follow these warnings can result in serious injury.



| | MOVING PARTS HAZARD |
|--|---|
| | Moving parts can pinch, cut or amputate fingers and other body parts. |
| MPa/bar/PSI | Keep clear of moving parts. Do not operate equipment with protective guards or covers removed. Equipment can start without warning. Before checking, moving, or servicing equipment, follow the Pressure Relief Procedure and disconnect all power sources. |
| ^ | EQUIPMENT MISUSE HAZARD |
| | Misuse can cause death or serious injury. |
| Land Andrew Control of | Do not operate the unit when fatigued or under the influence of drugs or alcohol. Do not exceed the maximum working pressure or temperature rating of the lowest rated system component. See Technical Specifications in all equipment manuals. Use fluids and solvents that are compatible with equipment wetted parts. See Technical Specifications in all equipment manuals. Read fluid and solvent manufacturer's warnings. For complete information about your material, request Safety Data Sheets (SDSs) from distributor or retailer. Do not leave the work area while equipment is energized or under pressure. Turn off all equipment and follow the Pressure Relief Procedure when equipment is not in use. Check equipment daily. Repair or replace worn or damaged parts immediately with genuine manufacturer's replacement parts only. 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. Use equipment only for its intended purpose. Call your distributor for information. Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces. Do not kink or over bend hoses or use hoses to pull equipment. |
| | Comply with all applicable safety regulations. |
| | 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. |



BATTERY HAZARD

The battery may leak, explode, cause burns, or cause an explosion if mishandled. Contents of an open battery can cause severe irritation and/or chemical burns. If on skin, wash with soap and water. If in eyes, flush with water for at least 15 minutes and get immediate medical attention.

- Replace battery only in a well-ventilated area and away from flammable or combustible materials, including paints and solvents.
- When battery is not in use, keep it away from metal objects like keys, nails, screws or other metal objects that can short circuit the battery terminals.
- Do not throw into fire.
- Charge only with Graco approved charger as listed in this manual.
- Do not store at temperatures below 32° or above 113 °F (0° to 45 °C).
- Do not use at temperatures below 40° or above 90 °F (4° to 32 °C).
- Do not expose battery to water or rain.
- Do not disassemble, crush, or penetrate the battery.
- Do not use or charge a battery that is cracked or damaged.
- Follow local ordinances and/or regulations for disposal.

CHARGER ELECTRIC SHOCK, FIRE AND EXPLOSION HAZARD

Improper setup or usage can cause electric shock, fire, and explosion.

- Charge only in a well-ventilated area and away from flammable or combustible materials, including paints and solvents.
- Do not charge on a combustible or flammable surface.
- Do not leave battery unattended while charging.
- Immediately unplug charger and remove battery when charging is complete.
- Charge only Graco approved batteries listed in this manual; other batteries may burst.
- Use only in dry locations. Do not expose to water or rain.
- Do not use a charger that is cracked or damaged.
- If the supply cord is damaged, replace the charger or cord, depending on model.
- Never force the battery into the charger.
- Disconnect the charger from the outlet before cleaning.
- Ensure that the outside surface of the battery is clean and dry before plugging into the charger.
- Do not attempt to charge non-rechargeable batteries.
- Do not disassemble the charger. Take charger to authorized service center when service or repair is required.

|--|



TOXIC FLUID OR FUMES HAZARD

Toxic fluids or fumes can cause serious injury or death if splashed in the eyes or on skin, inhaled or swallowed.

- Read Safety Data Sheets (SDSs) for handling instructions and to know the specific hazards of the fluids you are using, including the effects of long-term exposure.
- When spraying, servicing equipment, or when in the work area, always keep work area well-ventilated and always wear appropriate personal protective equipment. See **Personal Protective Equipment** warnings in this manual.
- Store hazardous fluid in approved containers, and dispose of it according to applicable guidelines.

PERSONAL PROTECTIVE EQUIPMENT

Always wear appropriate personal protective equipment and cover all skin when spraying, servicing equipment, or when in the work area. Protective equipment helps prevent serious injury, including long-term exposure; inhalation of toxic fumes, mists or vapors; allergic reaction; burns; eye injury and hearing loss. This protective equipment includes but is not limited to:

- A properly fitting respirator, which may include a supplied-air respirator, chemically impermeable gloves, protective clothing and foot coverings as recommended by the fluid manufacturer and local regulatory authority.
- Protective eyewear and hearing protection.

Important Information

Overview

The TruMix XT Variable Ratio Mixing System pumps and mixes two-component materials:

- Material from 1:1 to 6:1 ratios in 0.01 increments.
- Dispenses either continuously or in user-specified batch volumes.
- May be utilized in a mobile dispense mode to dispense coatings from five gallon material supply buckets in smaller areas.
- May be utilized in a stationary mix station mode as a fixed dispensing station with large material supply buckets, useful in coating large floors.
- See, **Setup**, page 19, for explanation of stationary mix station or mobile dispensing.
- The ProConnect Swappable Pumping System allows for quick changing of pumps due to material incompatibility or for ease of repairs, see pg. 31.

Material Compatibility

- Materials must be kept on intended side of system. DO NOT cross contaminate.
- System has been designed to accommodate incompatible material chemistries through the use of removable, dedicated ProConnect® fluid sections.

Keep Components A and B Separate



Cross-contamination can result in cured material in fluid lines which could cause serious injury or damage equipment. To prevent cross-contamination:

- Never interchange component A and component B wetted parts.
- Never use solvent on one side if it has been contaminated from the other side. Never cross solvent A and B.

NOTICE

TruMix XT only pumps non-aggregated A&B component materials. To prevent damage:

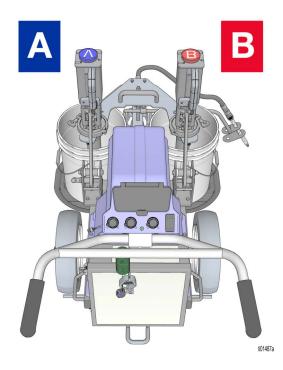
- DO NOT supply pumps with catalyzed materials.
- DO NOT mix in proximity of machine to prevent splattering cross contamination.
- DO NOT combine mixed material with aggregates in proximity to machine to prevent aggregates from clogging pumps.

A (Blue) and B (Red) Components

NOTE: Material suppliers can vary in how they refer to plural component materials.

Be aware that when standing in front the user controls at the system handle bars:

- Component A (Blue) is on the left side.
- Component B (Red) is on the right side.

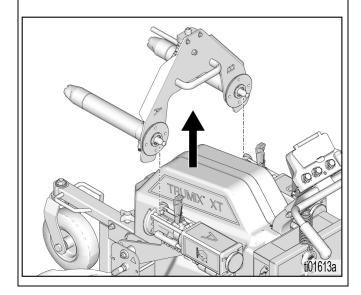


Changing Materials

NOTICE

Changing the material types used in your equipment requires special attention to avoid equipment damage and downtime.

- When changing materials, flush the equipment multiple times to ensure it is thoroughly clean.
- Check with your material manufacturer for chemical compatibility.
- To prevent damage, use separate ProConnect Pumping Systems for incompatible materials, such as epoxies, polyurethanes, and polyaspartics, see Remove ProConnect Swappable Pumping System, page 31.



Moisture Sensitive Materials

Exposure to moisture (such as humidity) will cause moisture sensitive materials to partially cure. Over time, the material will increase in viscosity and fully harden.

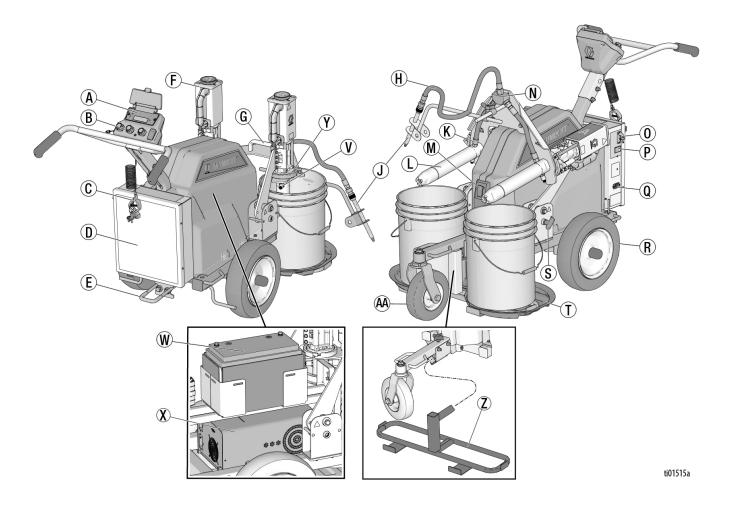
NOTICE

Partially cured material will reduce performance and the life of all wetted parts.

- Keep pump wet cup filled with appropriate lubricant. The lubricant creates a barrier between the material and the atmosphere.
- Never use reclaimed solvents, which may contain moisture. Always keep solvent containers closed when not in use.
- Always lubricate threaded parts with an appropriate lubricant when reassembling.

Component Identification

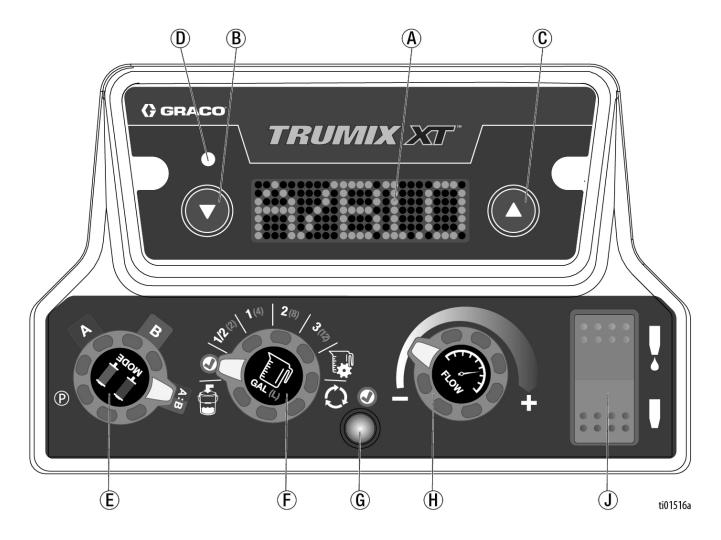
TruMix XT



| A | Digital Display, see pg. 13. |
|---|---|
| В | User Controls |
| С | Grounding Wire |
| D | System Control Enclosure |
| E | Brake |
| F | XT Extreme Torque Brushless Motor |
| G | ProConnect [™] Handle (Tilt and Carry) |
| Н | CrossLink™ Multi-Stage Mix Hose |
| J | Applicator |
| K | A/B Component Material Hoses |
| L | ProConnect Swappable Pump System |
| М | Mix Station Mode Dispense Button |
| N | Dispense Manifold (with check valves) |
| | |

| 0 | ON/OFF Switch |
|----|-----------------------------|
| Р | Battery Voltage Meter |
| Q | Battery Charging/Power Port |
| R | Rear Wheel |
| S | Pump Tilt Release |
| Т | Spill Catch Bucket Tray |
| V | Pressure Transducer |
| W | Battery (Lithium Ion) |
| Х | Inverter/Charger |
| Y | ProConnect Clamp |
| Z | Removable Bucket Holder |
| AA | Front Wheel |

Digital Display



| Α | System Information Screen |
|---|----------------------------------|
| В | Menu Button |
| С | Menu Button |
| D | System Error Indicator Light |
| E | Pump Mode Knob - Park, A, B, A:B |

| F | Batch Volume Knob | |
|---|----------------------------|--|
| G | RatioGuard Indicator Light | |
| Н | Flow Speed Knob | |
| J | Dispense Switch - Mobile | |

Universal Display Operations

Left Button

In Edit Mode:

- Short Press: Decrease value slowly.
- Hold (> 1 second): Decrease value rapidly.

Outside of Edit Mode:

- Short Press: Move to previous menu item.
- Hold (> 5 seconds): Switch between primary menu and secondary menu.

Right Button

In Edit Mode:

- Short Press: Increase value slowly.
- Hold (> 1 second): Increase value rapidly.

Outside of Edit Mode:

- Short Press: Move to next menu item
- Hold (> 1 second): No action

Both Buttons

 Short Press or Hold (>1 second): Enter/exit edit mode, reset totalizer, or perform action (if applicable). **NOTE:** Display flashes the value being edited in edit mode.

NOTE: If editing ratio numerator (part A), short pressing both buttons will advance to edit the ratio denominator (part B). If editing ratio denominator (part B), short pressing both buttons will exit edit mode.

Menu Notes

- While in the primary menu, the display will return to "1-RATIO" after five seconds without display interaction.
- Changing the pump mode or batch knob while in the primary menu will cause the display to immediately navigate to "1-RATIO" or "2-BATCH SETTING" and show the current value of the setting.
- Changing the volume units will cause the custom batch setting to revert to the default value for the units selected (4.00 gallons or 16.00 L).
- The job volume reset prompt will only appear once per power cycle after the completion of the ratio check. This prompt will not appear if ratio has been changed from the previous job. In this case, the job volumes will have automatically reset.
- The batch switch will only dispense material when the pump mode knob is in the A:B position.

Pressure Relief Procedure

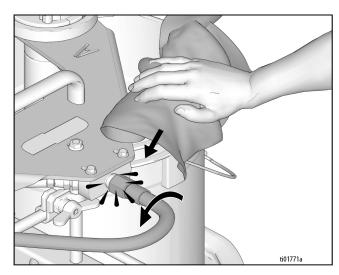


Follow the Pressure Relief Procedure whenever you see this symbol.



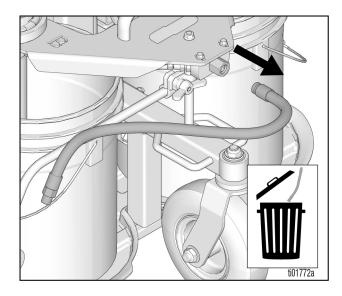
To help prevent serious injury from pressurized fluid and splashing, follow the **Pressure Relief Procedure** if you suspect pressure has been trapped from a clogged hose.

 Cover with a rag to prevent splashing and carefully loosen CrossLink[™] mix hose fitting to allow fluid to leak out. Be careful and wear appropriate PPE as material may splash when fitting is loosened.

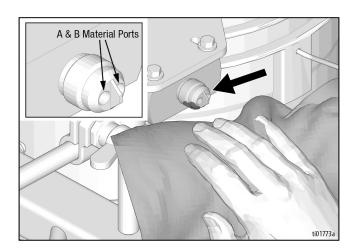


2. Wait for material to stop leaking from fitting.

3. Remove hose and discard.



4. Clean Dispense Manifold A and B ports.



- 5. Replace CrossLink mix hose.
- 6. Using a wrench, hand-tighten fittings.

Grounding

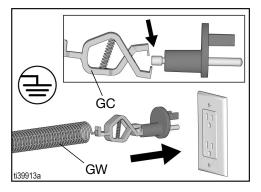


The equipment must be grounded to reduce the risk of static sparking and electric shock. Electric or static sparking can cause fumes to ignite or explode. Improper grounding can cause electric shock. Grounding provides an escape wire for the electric current.

Position the system so the wheels are on a true grounded surface, not on pavement or in the back of a trailer or a truck.

The system is equipped with a grounding wire and clamp. The clamp must be connected to a true earth ground when flushing with flammable materials. See **Important Grounding Information**, page 4.

Plug the adapter in to a grounded outlet. Connect the grounding wire (GW) and clamp (GC) to the metal stud on the adapter. If the ground wire is not long enough to reach a grounded electrical outlet, use a 3-wire grounded extension cord between the adapter and outlet.



Use an extension cord with an undamaged ground contact. If an extension cord is necessary, use a 3-wire, 12 AWG (2.5 mm²) minimum.

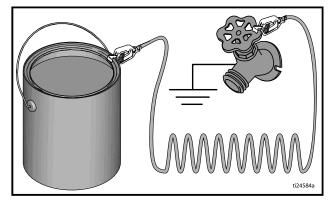
Pails

Flammable materials: follow local codes and regulations. Use only conductive metal pails, placed on a grounded surface such as concrete.

Do not place pail on a non-conductive surface such as paper or cardboard which interrupts grounding continuity.



Always ground a metal pail: connect a ground wire (GW) to the pail. Clamp one end to the pail and the other end to a true earth ground such as a water pipe.



Use an extension cord with an undamaged ground contact. If an extension cord is necessary, use a 3-wire, 12 AWG (2.5 mm²) minimum.

Battery and Charger



The equipment must be grounded to reduce the risk of static sparking and electric shock. Electric or static sparking can cause fumes to ignite or explode. Improper grounding can cause electric shock. Grounding provides an escape wire for the electric current.

NOTE: If the battery level is below 10.0V, the unit will shut down and must be plugged in to restart.



NOTICE

Do not expose the system to rain or wash down. Exposure could cause damage to electrical components. Store and transport covered or indoors.

Use your smartphone's camera to scan and download the Power Sonic Quick Guide and Battery App.



For best performance, Graco recommends using only lithium ion batteries. The system is shipped with a Power Sonic Lithium (LiPO4) battery. If powering the system with lithium batteries, Graco recommends using the Power Sonic brand. The unit is shipped with a Power Sonic Lithium battery. Use switch position 2 on the battery type selector. If a battery type other than Power Sonic is being used, the switch position will need to be adjusted. Use a small flathead screwdriver to turn the arrow to point to the number that correlates with the chosen battery.

Check Level

Check battery level on the Power Sonic Smart Battery app. New batteries are approximately 50% capacity for shipping.

Battery Disposal

See Recycling and Disposal, page 55.

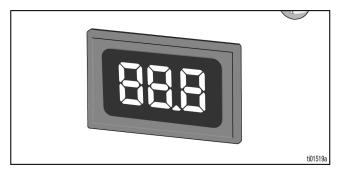
Charge the Battery



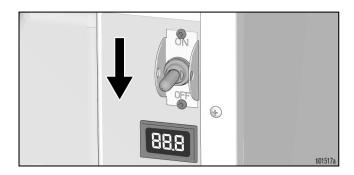
The equipment must be grounded to reduce the risk of static sparking and electric shock. Electric or static sparking can cause fumes to ignite or explode. Improper grounding can cause electric shock. Grounding provides an escape wire for the electric current.

- 1. Place the TruMix XT in a dry, well-ventilated area and away from flammable or combustible materials, including paint and solvent.
- 2. Turn the ON/OFF Switch to the **OFF** position.

 When connected to power, the voltmeter will turn on and the unit will begin charging. The voltmeter will indicate charging is occurring. The battery will charge to 14.6-14.8 volts and then descend to ~13.6 volts when fully charged.

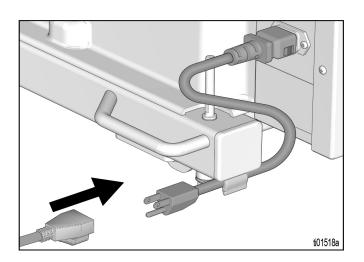


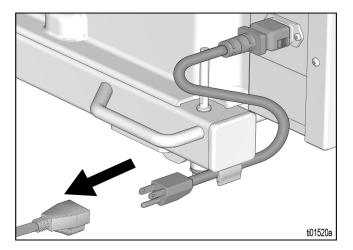
5. Unplug the charging cord.



 Plug charging cord into the battery charge port. Connect an extension cord, minimum 12AWG (2.5 mm2), to the charging cord and plug it into power.

NOTE: Use cord with lighted plug for indication charging cord is plugged into an active circuit.



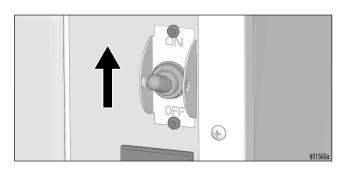


Setup

Startup

NOTE: The TruMix XT is shipped with caps on the end of the pumps. Prior to the first setup, remove and dispose of end caps.

1. Turn ON/OFF Switch to **ON**.



2. The Digital Display will scroll text until the system is ready. The screen will stop on the current ratio targets.



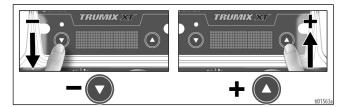
Setup Ratios

- 1. Rotate Pump Mode Knob to the A:B position.
- 2. Press both arrow buttons at the same time and release to edit the **A** side ratio volume.



Press the left arrow button to decrease the ratio value **or** the right arrow button to increase the ratio value.

NOTE: Values can be increased by one with a single press of the button or hold for faster cycling, see **Universal Display Operations**, page 14.



3. Press both arrow buttons at the same time again to lock in the volume of the A side ratio. This also allows you to now edit the **B** side ratio volume.

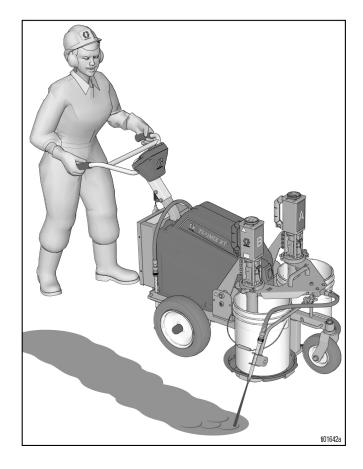


4. Use the arrow buttons to select the desired ratio for the **B** side, then push both arrow buttons at the same time again to lock in the volume of the **B** side ratio.

Mobile Dispense Mode

Mobile Dispense Mode is the default setup for the TruMix XT. In this mode the user can maneuver the TruMix XT to the desired area for application from five gallon supply buckets mounted on the bucket tray.

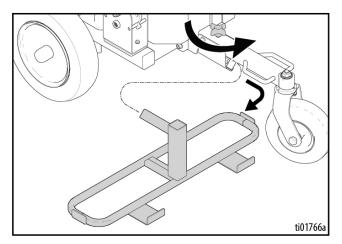
Mobile Dispense Mode is useful for smaller volume applications and in areas where a direct application may be beneficial.



Mix Station Mode

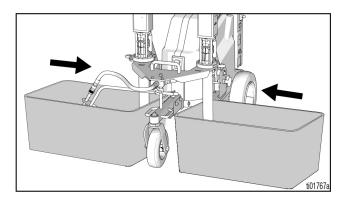
The TruMix XT has a removable bucket holder that allows it to pump from a wide variety of higher-capacity containers to reduce time spent refilling. To use the TruMix XT as a stationary mix station, follow these steps:

1. Remove bucket holder by turning front wheel forward, loosening bucket holder knob, and slide the bucket holder out of the frame receiver.

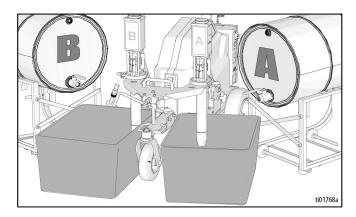


2. Place new containers under each pump.

NOTE: If material is packaged in drums or totes, be sure the new containers fit under the material dispensing valves.



3. Place A and B component material drums on carts and position over totes.



4. Follow the prime procedure, see **Prime the System**, page 21, and resume operation.

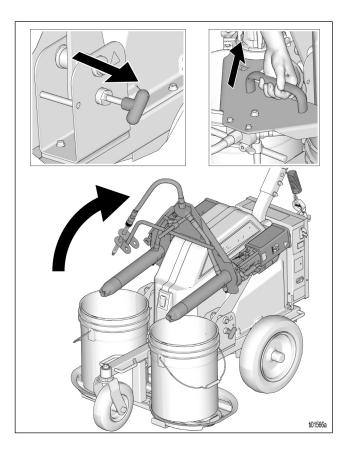
Prime the System

When solvents have been used to flush material from the previous job, a residual amount of solvent will remain in the pumps and hoses.

NOTICE

Perform the following procedure to ensure that all solvent has been properly flushed. Failure to do so could cause material to improperly cure.

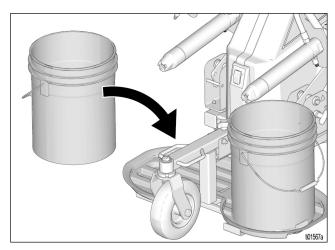
- 1. Lock brake to prevent TruMix XT from rolling.
- 2. Pull the Pump Tilt Release outward, then lift the ProConnect handle to pivot the two pumps out of the material.



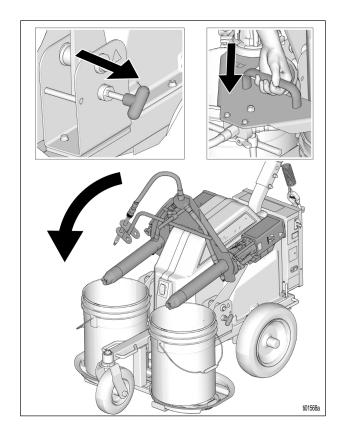
3. Place pails with A and B materials to be applied onto the respective sides of the Removable Bucket Holder.

NOTICE

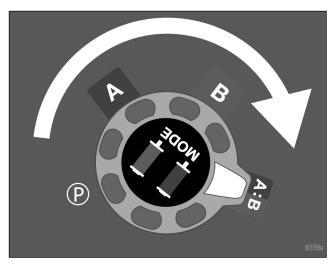
TruMix XT only pumps non-aggregated A and B component materials. To avoid equipment damage, DO NOT supply pumps with catalyzed materials.



4. Pull the Pump Tilt Release outward and pivot the two pumps downward into the material pails.



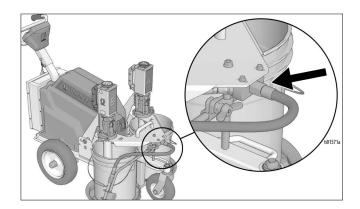
5. Move the Pump Mode Knob to the **A:B** position.



6. Move the Batch Volume Knob to the Prime position.



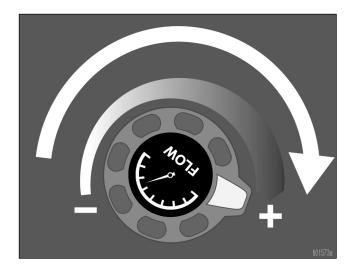
7. Make sure the CrossLink Mix Hose is installed on the Dispense Manifold.



8. Place a waste pail under the Applicator.



9. Move the Flow Speed Knob to maximum flow.



 Turn on the Dispense Switch. The system will begin to dispense material until both the A hose and B hose are full, and the CrossLink Mix Hose is completely purged. The display screen will scroll "PRIME A:B COMPLETE" once complete. The system is now ready for the ratio check step.

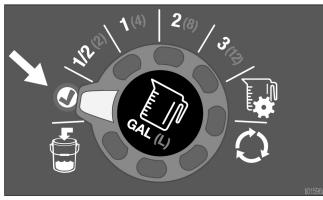


Operation

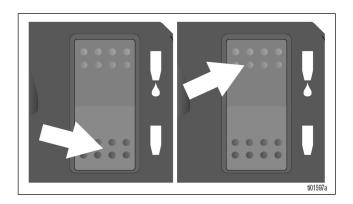
Ratio Check



1. Move the Batch Volume Knob from the Prime position to Ratio Check.



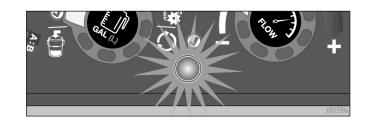
- 2. Place ratio check cup under tip of Applicator.
- 3. Turn the Dispense Switch **OFF** then back **ON** to start dispensing the ratio check material into the ratio check cup. The system will automatically stop dispensing when complete.



 Visually verify that the correct amount of material (0.25 gallons or 1 liter) was dispensed. Select Yes (Y) or No (N) when prompted on the display screen, depending on whether or not the correct amount of material was dispensed. If the RatioGuard Indicator Light does not illuminate, the material should not be used for the end application and the system will need to be re-primed.



5. Once Yes (Y) has been selected, the green RatioGuard Indicator Light will illuminate.



NOTE: As long as the green RatioGuard Indicator Light is illuminated, the system can dispense on ratio. Otherwise, the system must be re-primed and a new ratio check must be performed to dispense on ratio.

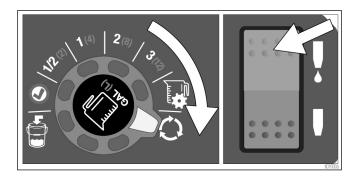
NOTE: If attempting to dispense in a mode not covered by ratio assurance (Park, A only, or B only), or in the Prime position on Batch Volume Knob, the unit will prompt asking if you want to exit ratio assurance. If "YES" is selected, the unit will need to be re-primed and a new ratio check will need to performed in order to dispense on ratio.

Dispensing

Continuous Setting



When set to the continuous setting (the Batch Volume Knob turned fully to the right), the applicator will dispense an unlimited amount of material when the Dispense Switch is turned **ON**, as long as there is material in the pails.



NOTE: Do not let material run out while the applicator is set to the continuous setting. The Digital Display will show "FEED ERROR" if material runs out. If this occurs, re-prime the system, see **Prime the System**, page 21.

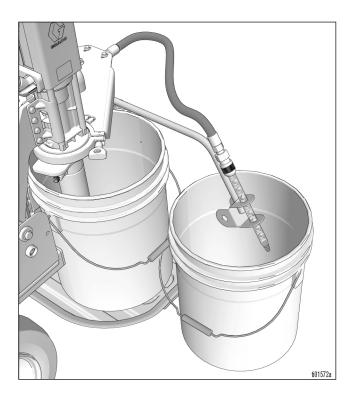
Batch Setting



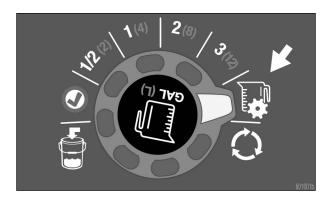
When set to a specific batch volume setting, the TruMix XT will dispense the exact volume selected on the Batch Volume Knob.

NOTE: Ensure there is enough material in both the A and B pails to mix the total volume selected. Display screen will show "FEED ERROR" if material runs out. If this occurs, re-prime the system, see **Prime the System**, page 21.

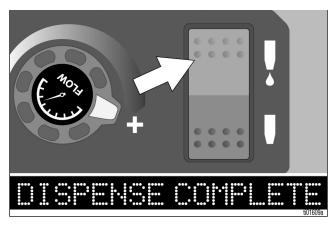
1. Place Applicator into a clean, empty pail.



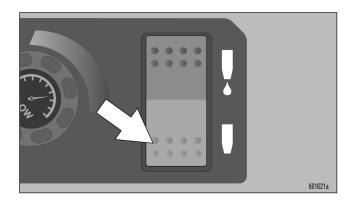
2. Use the Batch Volume Knob to select the desired volume of material to be dispensed.



3. Turn the Dispense Switch to **ON** to start dispensing material. The system will automatically stop when the specified amount of mixed material has been dispensed, and "DISPENSE COMPLETE" will scroll across the System Information Screen.



4. Turn the Dispense Switch **OFF**.



Cleanup

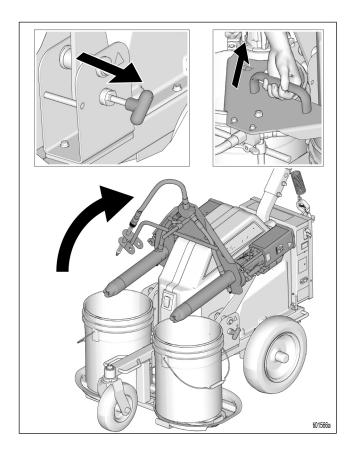


The TruMix XT should be cleaned daily, when changing materials, or at the end of use.

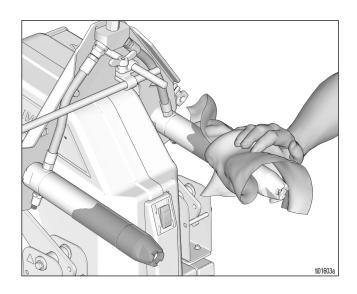
NOTE: The pumps, hose, and applicator will still be full of material at the start of the cleaning process.

Wipe Down

1. Pull the Pump Tilt Release outward, then lift the ProConnect handle to pivot the two pumps out of the material.



2. Using a clean cloth, wipe each pump individually to remove as much material as possible.



NOTICE

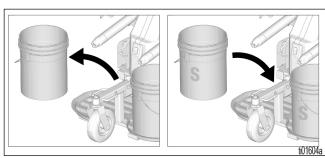
It is vital to use a separate, clean rag for each pump. Using the same rag to clean both the A and B pumps might activate the two-component mixtures and result in material curing on the pumps, resulting in potential damage.

Flush the TruMix XT

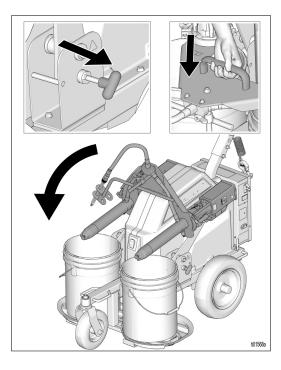


To avoid fire and explosion, always ground equipment and waste container. To avoid static sparking and injury from splashing, always flush at the lowest possible pressure in a well ventilated area.

- 1. Follow the grounding procedure, see **Grounding**, page 16.
- 2. Remove material pails from the Removable Bucket Holder.
- 3. Replace material pails with pails containing an appropriate cleaning solvent. It is recommended flushing at least 0.5 gallons or 2 liters of solvent through each side of the system.



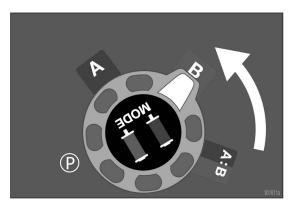
4. Pivot the pumps down into the solvent pails.



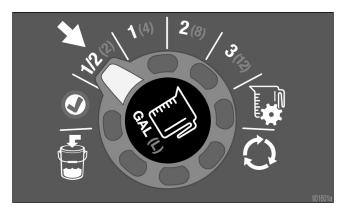
5. Place the Applicator into a waste pail.



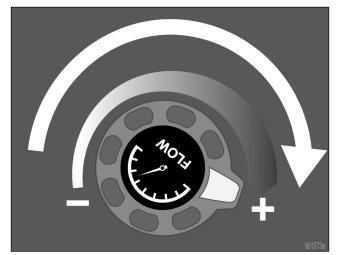
6. Move the Pump Mode Knob to the B position.



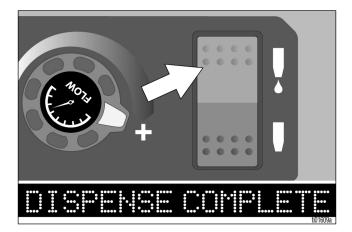
7. Set the Batch Volume Knob to the appropriate volume (minimum of one-half gallon). The amount of solvent needed may vary depending on the material used and the amount of color tinting added.



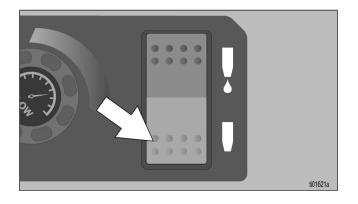
8. Set the Flow Speed Knob to the maximum setting (all the way to the right) to maximize the cleaning performance when flushing.



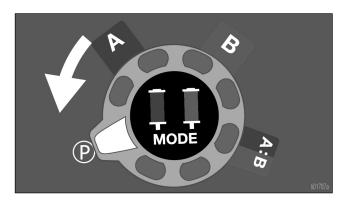
 Turn the Dispense Switch to ON. Once the B pump has cycled the predetermined amount of solvent, "DISPENSE COMPLETE" will scroll across the System Information Screen.



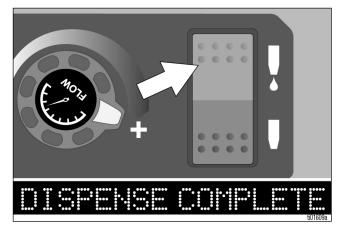
10. Turn the Dispense Switch OFF.



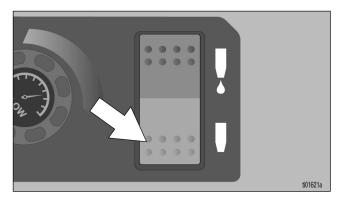
11. Move the Pump Mode Knob to the A position.



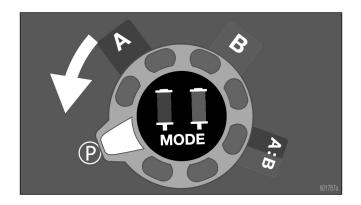
12. Turn the Dispense Switch to **ON**. Once the A pump has cycled the predetermined amount of solvent, "DISPENSE COMPLETE" will scroll across the System Information Screen.



13. Turn the Dispense Switch OFF.



14. Turn Pump Mode Knob to the Park Position (P). Turn Material Dispense Switch to **ON**. This will lower the pumps into the storage position for easy removal. "PARK COMPLETE" will scroll across the System Information Screen.



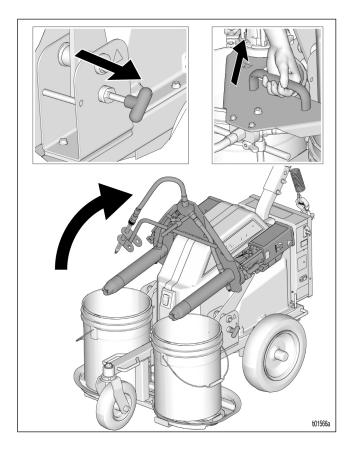
NOTE: Parking the pumps prevents moisture from curing material on pump rods, extending the life of the pump seals.

NOTE: Parking the pumps is required for convenient removal of ProConnect swappable pump system.

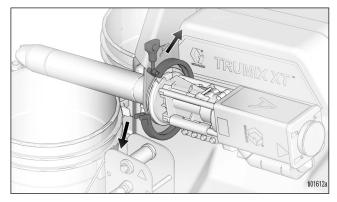
Remove ProConnect Swappable Pumping System

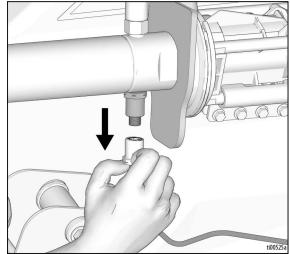
To remove the ProConnect Swappable Pumping System, follow the following steps:

- 1. Return the pumps to the park position and turn the unit OFF.
- 2. Pull the Pump Tilt Release outward and lift the ProConnect handle to pivot the two pumps upwards.

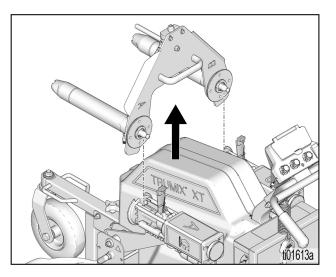


3. Release the ProConnect collar clamps and pressure transducer cables.





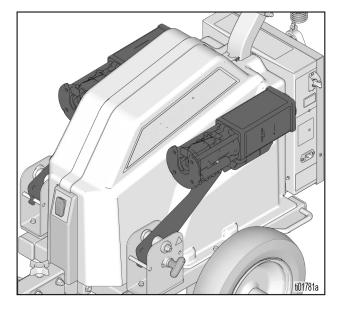
4. Remove the ProConnect system.



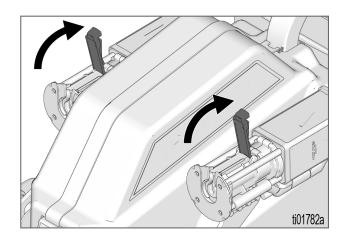
Replace ProConnect Swappable Pumping System

To replace the ProConnect Swappable Pumping System, follow the following steps:

1. Mark sure the motor drivers are in the upward pivot position.

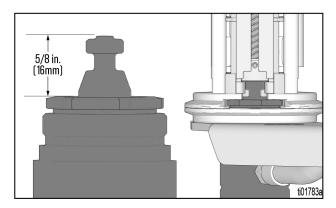


2. Lift driver doors.

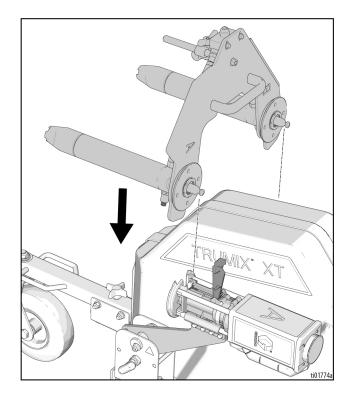


3. Ensure top of pump rod is adjusted to 5/8 in. (1.59 cm) +/- 1/8 in. (0.32 cm) for proper fit in driver.

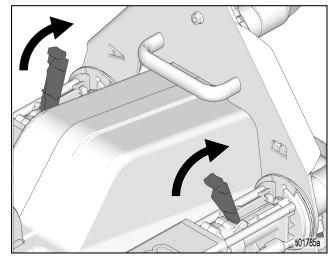
NOTE: If necessary, use a screwdriver to gently pry out and tap back the pump rod to the required 5/8 in. (1.59 cm) adjustment.



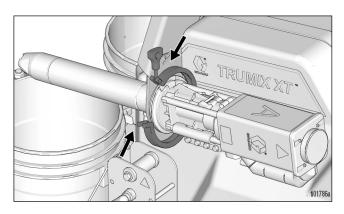
4. Slide the ProConnect system into place.

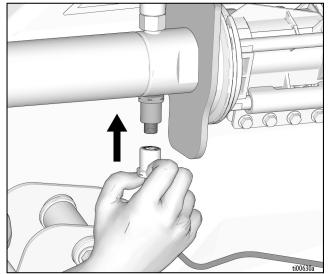


5. Lower the pump motor driver and pump rod guards.

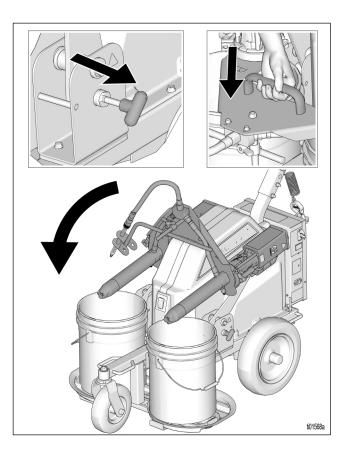


6. Lock the ProConnect collar clamps into place and reconnect pressure transducer cables.



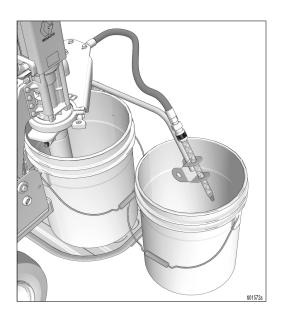


7. Using the ProConnect handle, pivot the two pumps into the downward position and lock into place with the Pump Tilt Release.

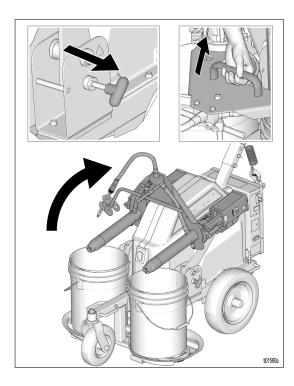


Storage

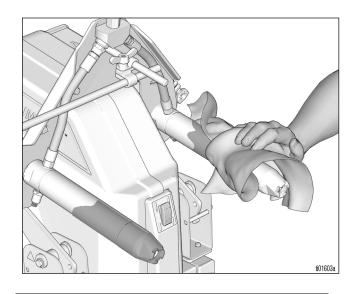
- 1. Flush the system, see **Flush the TruMix XT**, page 28.
- 2. Place the applicator into a waste pail and move the Pump Mode Knob to the park position. Turn Material Dispense Switch **ON.**



3. Pull the Pump Tilt Release handle outward and lift the ProConnect Handle to pivot the pumps up and out of the pails.



4. Use a clean towel to wide down the outside of each pump. Use a separate towel for each pump.



NOTICE

It is vital to use a separate, clean rag for each pump. Using the same rag to clean both the A and B pumps might activate the two-component mixtures and result in material curing on the pumps, resulting in potential damage.

- 5. Remove used pails from the Removable Bucket Holder and replace with clean pails to catch any leaks while the system is stationary.
- 6. Pull the Pump Tilt Release outward and pivot the pumps downward into the clean pails.

NOTE: Storing the ProConnect system in the vertical down position minimizes risk of clogging of dispense manifold.

7. Turn ON/OFF Switch to **OFF** to power down the system. Charge the battery overnight, see **Charge the Battery**, page 18.

Maintenance

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



Preventative Maintenance Schedule

| Activity | Interval |
|--|---|
| System Verification - Run Ratio Check | Daily, start of job, or at sign of any pumping issues |
| Flush Procedure | Any switch of compatible materials, end of job |
| Replace CrossLink Mix Hose | Per material working time |
| Inspect Dispense Manifold | Each time CrossLink mix hose is replaced |
| Inspect Dispense Manifold Check Valves | As required |
| Rebuild Pumps | As required |
| Inspect/Clean Machine | Daily, or each time used |
| Check Hoses for Wear or Damage | Daily, or each time used |
| ProConnect Collar Clamps Tight | Daily, or each time used |

Troubleshooting



Follow **Pressure Relief Procedure**, page 15, before checking or repairing the equipment.

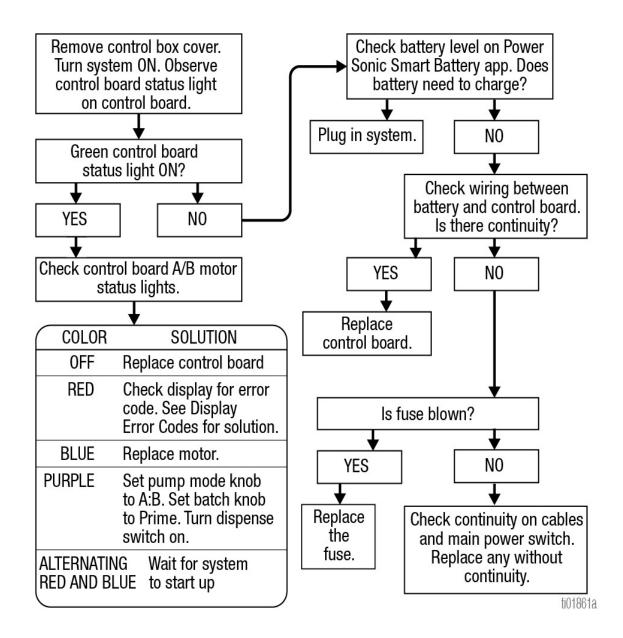
NOTE: Check all possible problems and causes before disassembling the equipment.

| Problem | Cause | Solution |
|--|---|--|
| Machine does not turn ON | No Power | Turn On/OFF Switch On. |
| | | Plug in power cord. |
| | | Check incoming power (wall power). Check extension cord, check GFI, check breaker. |
| | | See System Does Not Have Power, page 40. |
| Machine has power but will not dispense | System issue | See System Does Not Run, page 39. |
| Inverter AC output voltage is low and the inverter turns loads OFF in a short time | Low battery | Check the condition of the battery and recharge if possible. |
| | Other battery issue | See flow chart page. |
| Charger is inoperative and unit will not accept AC | AC voltage has dropped out of tolerance | Check the power supply for proper voltage and frequency. |
| Charger is charging at a lower rate | Charger controls are improperly set | Use charger setting #2 on inverter. |
| | Low AC input voltage | Source qualified AC power. |
| | Loose battery or AC input connections | Check all DC and AC connections. |
| No Display | ON/OFF switch OFF | Turn ON/OFF switch ON. |
| | Loose display cable | Check cable connections. |
| | Display board failed | Check display and replace as necessary. |
| Display Errors | System alarms | See Display Error Codes, page 43. |

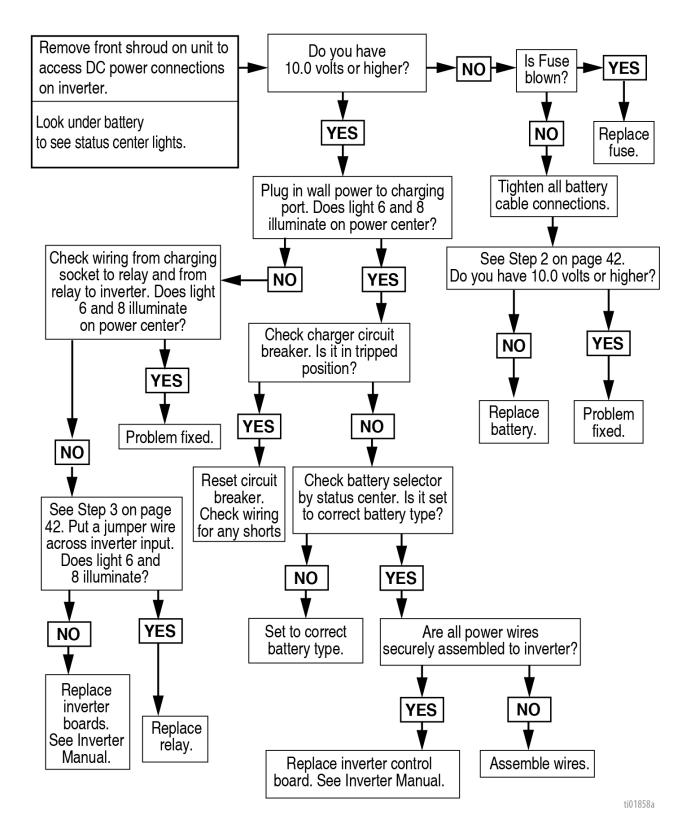
| Problem | Cause | Solution |
|---|---|---|
| Low Output Flow | Thick material | Condition material to recommended temperature per manufacturer specifications. |
| | CrossLink Mix Hose clogged | Replace CrossLink Mix Hose. |
| | Batch Knob in Ratio Check position | Flow rate limited in Ratio Check setting; use volume or continuous setting. |
| | Motor Encoder wire connections loose | Check Motor Encoder wire connections. |
| | Check valves clogged or assembled incorrect | Clean or replace components. |
| | Material Curing in Dispense Manifold | Clean or replace components, flush with more solvent after future uses, store with pumps vertical. |
| | Worn piston valve or intake valve inside pump | Rebuild Pump. |
| Machine stops dispensing before Batch completed without error | Pump mode knob and/or batch knob changed positions while dispensing | Don't change knob settings during dispense. No issues and proceed with next dispense. |
| | Knobs incorrectly calibrated | Perform Knob Calibration, see See Menu Button, step 11 in System Menu Details , page 45. |
| Machine not dispensing material during Prime. | Thick material | Condition material to recommended temperature per manufacturer specifications. |
| | Contamination inside Pumps | Clean Pump. |
| | Intake valve is leaking | Clean or rebuild Pump. |
| | Pump seals are worn | Rebuild Pump. |
| | Dispense switch not working | Check Dispense switch wiring & connections; replace switch. |
| Dispense Manifold Leaks | Fittings loose | Clean or replace; re torque connection. |
| | Seals worn | Replace Check Valve Housing O-ring. |
| Pump Outlet Hose Leaks | Fittings loose | Loosen hose swivel connection to Dispense Manifold, tighten NPT hose connection to Pump Outlet, and re-tighten hose swivel connection to Dispense Manifold. |
| Pump Leaks | Worn seals | Rebuild Pump. |
| Pumps don't pivot up/down | Pump tilt release interference | Relieve tension on ProConnect Handle by lifting assembly then pull Pump tilt release. |
| | | Adjust Motor height for proper Pump tilt release engagement. |
| Transducer contacting bucket | Too tall of bucket (>15 inches; >0.38 meters) | Use buckets <15 inches (<0.38 meters). |
| | Motor clamps moved | Adjust Motor clamps/bracket accordingly. |

| Problem | Cause | Solution |
|---|--|--|
| ProConnect does not remove | Pump Rod interfering with Motor Housing | Park Pumps. |
| | Transducer cables connected to ProConnect assembly | Remove both transducer cables from transducers. |
| ProConnect does not install | Pump Rod interfering with Precision Drive | Park Pumps and/or adjust Pump Rod height. |
| | Pump Rod interfering with Motor Housing | Adjust Pump Rod height. |
| | Motor spacing incorrect (height or width) | Adjust Motor height or Motor Base width accordingly. |
| Transducer cables do not connect to transducers | Transducers have a key slot alignment feature that mates to the transducer cable | Turn transducer cable until key slot aligns. |
| Brake does not engage / disengage | Low tire air pressure | Add air pressure to the tire. |
| | Tires worn | Set bracket to next engagement position. |
| Brake produces a high pitch noise when engaging / disengaging | Lack of Grease on Brake components | Grease Brake Arm contact points. |
| Application arm does not swing, swivel, | Incorrect Clamp tension | Adjust Clamp tension accordingly. |
| or adjust. | Material cured on Clamp | Replace Clamp. |
| CrossLink Mix Hose kinks when swiveling from one side of machine to other | Arm not extended far enough out | Extend arm fully outward in clamp and tension accordingly. |
| Bucket bracket does not remove / install | Interference with front tire | Rotate front tire 90 to 180 degrees. |
| | Interference with hand knob | Back off hand knob a few turns. |
| | Hand knob does not turn | Replace Bucket Bracket Assembly. |
| Bucket Bracket does not support | Hand knob loose | Tighten hand knob. |
| material weight | Hand knob does not turn | Replace Bucket Bracket Assembly. |
| Front caster does not swivel | Material cured in Caster assembly | Clean and/or replace front Caster assembly. |
| Front tire does not spin freely | Axel nuts too tight | Loosen Axel nuts 1/4 to 1/2 turn. |
| | Material cured in Axel assembly | Clean and/or replace front Axel assembly. |
| Rears tires do not spin freely or sequel | Axel nuts too tight | Loosen Axel nuts 1/4 to 1/2 turn. |

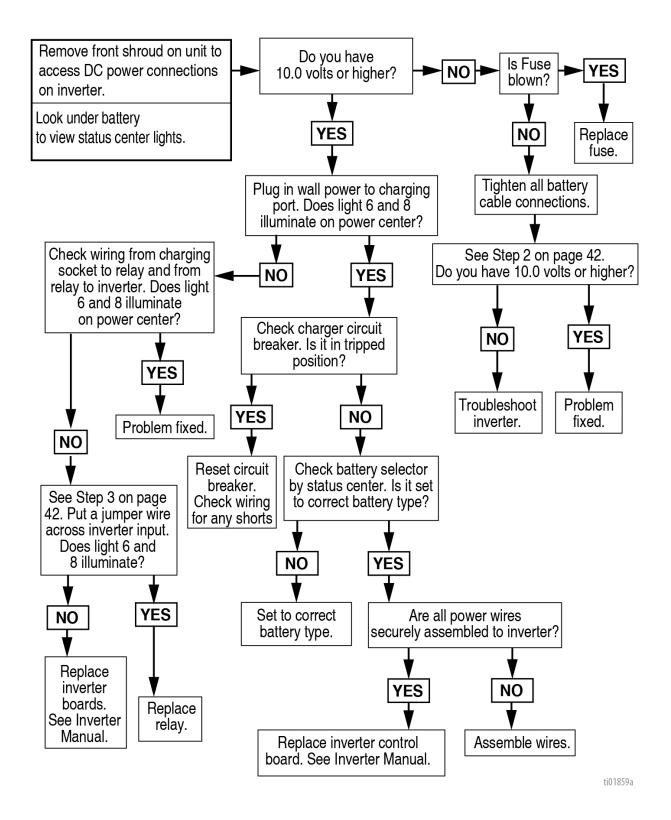
System Does Not Run



System Does Not Have Power



Battery Will Not Charge



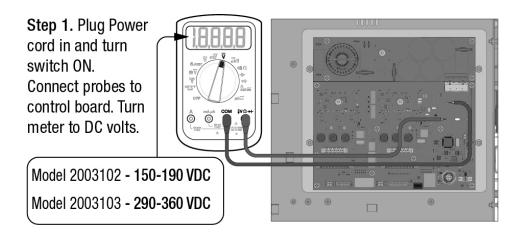
3B0119A

Check Voltage



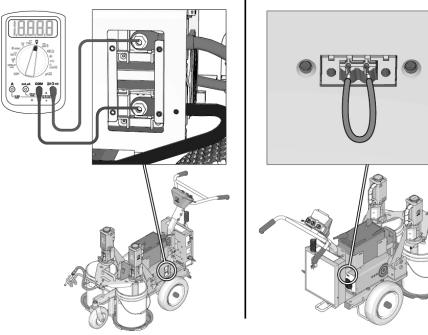
Some troubleshooting steps require checking the voltage of the TruMix XT. If directed to check the voltage, follow one or more of the steps listed here.

To reduce the risk of injury from electric shock, do not touch components in the control enclosure while power is on. Wait five minutes after disconnecting power cord before servicing.



Step 2. Connect probes to positive and negative posts on inverter.

Step 3. Connect jumper across pins 1 and 2.



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Display Error Codes

If any error codes are active, the lowest numbered error code will scroll across the display until the error is cleared.

NOTE: Errors can be cleared by placing the dispense switch in the **OFF** position (errors will only clear if the error condition is resolved).

NOTE: The system will not operate while any errors are present. A prime is required after all error conditions are resolved before the system will be allowed to dispense on ratio again.

| Error Code | Error Description (on Display) | Causes | Solution | |
|---------------|---|---|--|--|
| E01X | SENSOR FAULT | Short/fault in pressure transducer or motor encoder wiring. | Check motor encoder wiring. Check pressure transducer wiring. | |
| E02A | HIGH PRESSURE DETECTED, PUMP A | Too much restriction on pump A. | Follow pressure relief procedure. Replace mix hose. Clean check valve. Clean pump. | |
| E02B | HIGH PRESSURE DETECTED, PUMP B | Too much restriction on pump B. | Follow pressure relief procedure. Replace mix hose. Clean check valve. Clean pump. | |
| E03A | PRESSURE TRANSDUCER NOT DETECTED PUMP A | Pressure transducer A unplugged. NOTE: This error will not occur while the pump mode knob is set to park. | Check A pressure transducer wiring. Replace A pressure transducer. | |
| E03B | PRESSURE TRANSDUCER NOT DETECTED PUMP B | Pressure transducer B unplugged. NOTE: This error will not occur while the pump mode knob is set to park. | Check B pressure transducer wiring. Replace B pressure transducer. | |
| E04A | HIGH INCOMING VOLTAGE | Supply voltage too high. | Check supply voltage, see inverter | |
| E04B | DETECTED | | troubleshooting flow chart. | |
| E08A | LOW INCOMING VOLTAGE | Supply voltage too low. Battery low. | Charge battery. Check supply voltage. | |
| E08B | DETECTED | | See inverter troubleshooting flow chart. | |
| E09A | MOTOR ENCODER FAULT PUMP A | A motor calibration failed. Invalid output from encoder A. | Relieve pressure and recalibrate motors. Check A encoder wiring. | |
| E09B | MOTOR ENCODER FAULT PUMP B | B motor calibration failed. Invalid output from encoder B. | Relieve pressure and recalibrate motors. Check B encoder wiring. | |
| E10A | CONTROL BOARD THERMAL | Motor controller too hot. | Let motor controller cool down. Ensure | |
| E10B | PROTECTION FAILED | | airflow to the unit is not restricted and system is in allowable temperature range. | |
| E12A | EXCESSIVE CURRENT PROTECTION ENABLED PUMP A | Motor current too high. | Call Graco technical assistance. | |
| E12B | EXCESSIVE CURRENT PROTECTION ENABLED PUMP B | | | |
| E15A | NO MOTOR CURRENT PUMP A | Motor disconnected. | Check A motor wiring. | |
| E15B | NO MOTOR CURRENT PUMP B | | Check B motor wiring. | |

| Error Code | Error Description (on Display) | Causes | Solution | |
|---------------|------------------------------------|---|--|--|
| E20X | LOW RATIO (B RICH) | Low ratio. | Check A motor and encoder wiring. Replace A precision drive. Replace A motor. | |
| E21X | HIGH RATIO (A RICH) | High ratio. | Check B motor and encoder wiring. Replace B precision drive. Replace B motor. | |
| E23A | Motor Not Spinning Pump A | Motor incorrectly calibrated. | Calibrate motors, see step 10 in System Menu Details , page 45. Check A motor and encoder wiring. | |
| E23B | MOTOR NOT SPINNING PUMP B | | Calibrate motors, see step 10 in System Menu Details , page 45. Check B motor and encoder wiring | |
| E24A | INVALID STROKE RANGE PUMP A | Motor and pump not coupled. | Verify that ProConnect is attached properly. Check A encoder wiring. Replace A precision drive. | |
| E24B | INVALID STROKE RANGE PUMP B | | Verify that ProConnect is attached properly. Check B encoder wiring. Replace B precision drive. | |
| E25X | CONTROL BOARD | Control board not working. | Replace control board. | |
| E26X | COMMUNICATION FAULT | | | |
| E27X | CONTROL BOARD SOFTWARE MISMATCH | Wrong hot software loaded onto control board. | | |
| E28X | MODE KNOB NOT DETECTED | Mode knob unplugged or shorted. | Calibrate knobs, see step 11 in System | |
| | | NOTE: This error can be acknowledged by pressing either button on the display so that the knobs can be calibrated. | | |
| E29X | BATCH KNOB NOT DETECTED | Batch knob unplugged or shorted. NOTE: This error can be acknowledged by pressing either button on the display so that the knobs can be calibrated. | | |
| E30X | SPEED KNOB NOT DETECTED | Speed knob unplugged or shorted. NOTE: This error can be acknowledged by pressing either button on the display so that the knobs can be calibrated. | | |
| | | NOTE: This error will not occur while the batch volume knob is set to Ratio Check. | | |
| E31A | LOW PRESSURE DETECTED PUMP A | Too little restriction on pump A. | Ensure mix hose is attached to system. Check pump and hoses for leaks. | |
| E31B | LOW PRESSURE DETECTED PUMP B | Too little restriction on pump B. | Ensure chemical is compatible with system. | |
| E32A | PUMP BLOCKAGE/LEAK | Leak or blockage in pump A. | Refill material. Check material for | |
| E32B | DETECTED | Leak or blockage in pump B. | foreign debris. Check/clean pump balls, seals, and seats. | |
| E99A | FEED ERROR PUMP A | Pump A cavitating or out of material. | | |
| E99B | FEED ERROR PUMP B | Pump B cavitating or out of material. | | |

System Menu Details

See Digital Display, page 13, for menu controls.

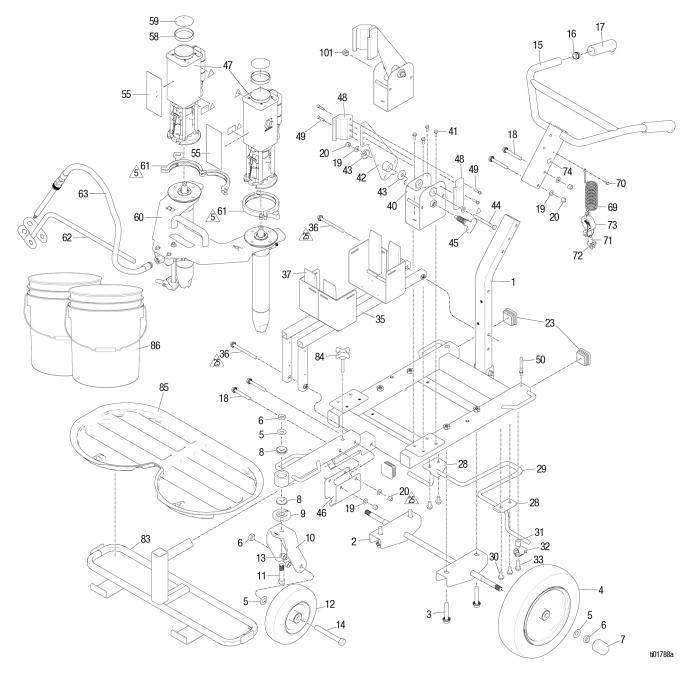
| Ref. | Name | Description |
|-------|-------------------------------------|---|
| А | System Information Screen | This screen displays current material ratios, error codes, and other system information. |
| B & C | Menu Button | Primary Menu |
| | (4 Primary Menu Positions and 12 | NOTE: Within the primary menu, the display will return to "1-RATIO" after five seconds of display inactivity. |
| | Secondary Menu | 1 - Ratio |
| | Positions) | Indicates the mode, depending on mode dial position (listed below). |
| | | Park: Park mode |
| | | • A: A only |
| | | • B: B only |
| | | • A:B: Cycles between "A#,## and B#,##" indicating the current ratio target. User can double press to edit A (ratio numerator) or use individual presses or holds to increase or decrease the value. Once A (ratio numerator) is at the desired value, double press to advance to B (ratio denominator). Once B (ratio denominator) is at the desired value, double press to exit edit mode and accept the new ratio target. See Setup Ratios , page 19. |
| | | 2 - Batch Setting (GAL/L) |
| | | Indicates batch setting depending on Batch Volume Kbob position (listed below). |
| | | Prime: Prime |
| | | NOTE: Volume dispensed in prime setting ranges from 1.2L to 3.7 L, depending on ratio set by user. |
| | | Ratio Check: Ratio check |
| | | • 0.5 Gallon Batch: 0.50 / 2 liter batch - 2.00 |
| | | • 1 Gallon Batch: 1.00 / 4 liter batch - 4.00 |
| | | • 2 Gallon Batch: 2.00 / 8 liter batch - 8.00 |
| | | • 3 Gallon Batch: 3.00 / 12 liter batch - 12.00 |
| | | • Custom Batch: Displays custom batch volume in user units (gal/L). Double press to edit the volume using individual button presses or holds to increase or decrease the value. |
| | | Continuous: Continuous |
| | | 3 - Job A |
| | | Displays A material dispensed since totalizer was reset. Double press to be prompted to reset volume totalizer. |
| | | NOTE: Resetting the A totalizer with also reset the B totalizer. |
| | | NOTE: Material dispensed during a ratio check is not included in the totalizer. |
| | | 4 - Job B |
| | | Displays B material dispensed since totalizer was reset. Double press to be prompted to reset volume totalizer. |
| | | NOTE: Resetting the B totalizer with also reset the A totalizer. |
| | | NOTE: Material dispensed during a ratio check is not included in the totalizer. |

| Ref. | Name | Description |
|------|------------------------------------|--|
| B&C | Menu Button | Secondary Menu |
| | (4 Primary Menu | 5 - Volume Units |
| | Positions and 12 Secondary Menu | Displays the user volume units. Double press to edit. |
| | Positions) | NOTE: Volume units are used to infer pressure units. Volume units of "GAL" will lead to pressure units of "psi". Volume units of "L" will lead to pressure units of "bar". |
| | | 6 - Pressure A |
| | | Displays pressure transducer reading at the outlet of pump A. |
| | | 7 - Pressure B |
| | | Displays pressure transducer reading at the outlet of pump B. |
| | | 8 - Life A |
| | | Displays A material dispensed over the lifetime of the motor controller (system). |
| | | 9 - Life B |
| | | Displays B material dispensed over the lifetime of the motor controller (system). |
| | | 10 - Motor Calibration (can only be performed during service) |
| | | NOTE: Residual fluid in CrossLink may dispense. Place a bucket under application prior to calibration. |
| | | Double press to be prompted to reset the motor calibration. |
| | | Press "Y" to accept. |
| | | Turn mode knob to A:B. |
| | | Turn batch volume knob to prime. |
| | | Turn dispense switch to ON. |
| | | Motor will now begin calibration. |
| | | 11 - Knob Calibration Left |
| | | Double press to calibrate the knobs. Updates the low end of the scale and adjust boundaries accordingly. |
| | | NOTE: In order to perform knob calibration, all knobs must be turned to the left. |
| | | 12 - Knob Calibration Right |
| | | Double press to calibrate the knobs. Updates the high end of the scale and adjust boundaries accordingly. NOTE: In order to perform knob calibration, all knobs must be turned to the right. |
| | | 13 - Job Log |
| | | Double press to enter and scroll through a log of previous jobs. |
| | | Data in the log contains: |
| | | • Index |
| | | Target Volume |
| | | Ratio Target |
| | | Ratio measured |
| | | Once log is entered via double press, the left (down) and right (up) buttons can be used to scroll through the log. Double press to exit log. |
| | | NOTE: The job log only updates when the job volume totalizers are reset or when the system dispenses material at a new ratio. |
| | | 14 - Error Log |
| | | Double press to enter and scroll through a log of previous errors. |
| | | Data in the log contains: |
| | | • Index |
| | | • Error Code (see, Display Error Codes , page 43). |
| | | Once log is entered via double press, the left (down) and right (up) buttons can be used to scroll through the log. Double press to exit log. |
| | | 15 - Controller SW Rev |
| | | Displays the revision of motor controller software. |
| | | 16 - Display SW Rev |
| | | Displays the revision of the display software. |

| Ref. | Name | Description |
|------|--|--|
| E | Mode Knob | Position 1 - Park the Pump (Lower pumps to the bottom position for storage and removal) |
| | (Four Positions) | Position 2 - Run the A Pump when the dispense switch is on until an error occurs or the batch volume is reached. |
| | | Position 3 - Run the B Pump when the dispense switch is on until an error occurs or the batch volume is reached. |
| | | Position 4 - Run the A and B Pumps on ratio when the dispense switch is on until an error occurs or the batch volume is reached. |
| F | Batch Volume Knob (Eight Positions) | Position 1 - Prime: Dispense while the dispense switch is on until the individual hoses and hot hose are primed (approximate volumes listed below). This material is not guaranteed to be on ratio and should not be used for the end application. |
| | | NOTE: Volume dispensed in prime setting ranges from 1.2L to 3.7L, depending on ratio set by user. |
| | | Position 2 - Ratio Check: Dispense while the dispense switch is ON until 0.25 gallons or 1 liter have been dispensed. Upon completion, you will be prompted to verify whether the target volume (0.25 gallons or 1 liter) was dispensed. If you select "Y" (correct volume dispensed), the ratio assurance light will illuminate and the material may be used for the end application. If you select "N" (incorrect volume dispensed), the ratio assurance light will not illuminate and the material should NOT be used for the end application. |
| | | Positions 3 - 8 Select Dispense Volume: |
| | | • 1/2 Gallon (2 L)*: Dispense while the dispense switch is ON until 0.5 gallons (2L) have been dispensed. |
| | | • 1 Gallon (4 L)*: Dispense while the dispense switch is ON until 1 gallon (4L) has been dispensed. |
| | | • 2 Gallons (8 L)*: Dispense while the dispense switch is ON until 2 gallons (8L) have been dispensed. |
| | | • 3 Gallons (12 L)*: Dispense while the dispense switch is ON until 3 gallons (12L) have been dispensed. |
| | | Custom Batch (defaults to 4 gallons (16 L))*: Dispense while the dispense switch is ON until the custom batch volume has been dispensed. |
| | | Continuous: Dispense indefinitely while the dispense switch is ON. |
| | | Batch volume resets when the dispense switch is OFF (if the batch is stopped before the volume is reached, it will restart from 0). |
| G | Error Indicator Light | When this light is blinking, it indicates that an error has occurred. Read the Control Display (P) for more information. |
| Н | System Speed Knob | This variable knob increases or decreases the target speed/flow. Turning the knob clockwise makes the system operate faster; turning it counterclockwise makes it operate slower. |
| | | NOTE: When the batch knob is in the ratio check position, material will be dispensed at the minimum speed. |
| J | Dispense Switch | This switch determines whether the pumps run (ON) or stop (OFF). |
| 0 | System Power Switch | This toggle switch controls the overall power for the entire system. |
| | Serial ID | Identifies the serial number of your particular system. |
| | • | |

Parts

TruMix XT

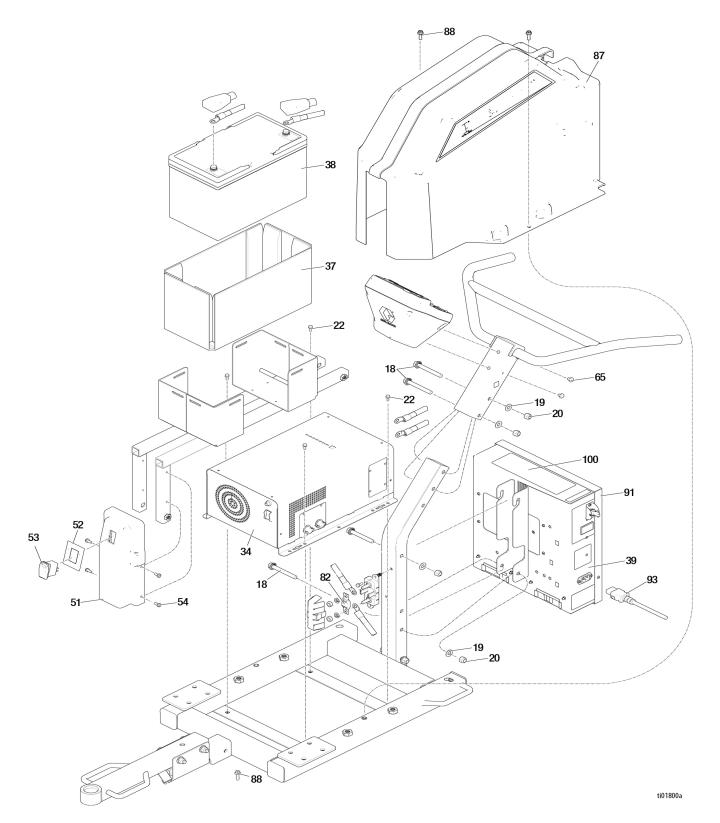


| Ref. | Torque | | | |
|------|-------------------------------------|--|--|--|
| 5 | Tighten one turn past hand tighten | | | |
| 25 | Torque to 23-27 ft-lbs. (31-37 N•m) | | | |

TruMix XT Parts List

| Ref. | Part | Description | Qty | Ref. | Part | Description | Qty |
|---------------|---------|-------------------------|-----|---------------|-------------|-----------------------------------|-----|
| 1 | | FRAME, painted | 1 | 62 | 2002512 | ARM, support | 1 |
| 2 | 24Z605 | AXLE, assembly | 1 | 63 ♦\$ | | HOSE, coupled | 1 |
| 3 | | SCREW, hex hd. | 4 | 69 | 237686 | WIRE, ground assembly | 1 |
| 4★ | | WHEEL | 2 | 70 | | SCREW, thread forming | 1 |
| 5�★ | | WASHER | 4 | 71 | 25U292 | ADAPTER, ground plug | 1 |
| 6�★ | | NUT, lock, nylon | 4 | 72▲ | 25U294 | LABEL, safety | 1 |
| 7★ | | CAP, leg | 2 | 73 | | TIE, security | 1 |
| 8 | 119532 | BEARING, flanged | 2 | 74▲ | 19D961 | LABEL, grounding | 1 |
| 9 | 15E773 | DISK, adjuster | 1 | 83† | | BRACKET, bucket | 1 |
| 10 | | FORK, painted | 1 | 84† | | KNOB, pronged | 1 |
| 11 | 15E780 | PIN, fork | 1 | 85†** | | TRAY, bucket | 1 |
| 12� | | WHEEL, small | 1 | 86 | 115077 | PAIL, plastic | 2 |
| 13� | | SPACER, wheel | 2 | 101 | | PLUG, snap-in | 1 |
| 14� | | SCREW, cap, hex hd. | 1 | | | | |
| 15 | 24Z284 | BAR, handle | 1 | | | er Kit (#2005979) | |
| 16 | | PLUG, tube | 2 | † Inclu | ded in Pun | np Lower Kit (#2005980) | |
| 17 | 114659 | GRIP, handle | 2 | 🔶 Inclu | ided in Pur | mp Lower w/ Hose Kit (#2005981) | |
| 18* | | SCREW, hex hd., flanged | 8 | 🄹 Inclu | ided in Dis | pense Manifold Kit (#2005982) | |
| 19 米 ╋ | | WASHER | 12 | | | pense Manifold w/ Checks Kit | |
| 20*₽ | | NUT, lock | 8 | (#2004 | , | | |
| 23 | | PLUG, tube | 4 | | | upled Hose Kit (#2004623) | |
| 28米 | | BRACKET, pivot | 2 | | | id Module Kit (#2003160) | |
| 29米 | | LEVER, brake | 1 | | | Hose Kit (#2002743) | |
| 30米 | | SCREW, cap | 4 | | | io Cup Kit (#2003161) | |
| 31 | | SPACER, nylon | 1 | ** Inclu | ded in Fro | nt Wheel Kit (#2005983) | |
| 32 | 278204 | CLIP, drain line | 1 | A Don | lacamenta | afety labels, tags, and cards are | |
| 33 | | SCREW, cap, flange hd. | 1 | | able at no | | |
| 35 | | BRACKET, battery | 1 | avan | | 0031. | |
| 36 | | SCREW, hex hd. | 2 | | | | |
| 40 + | | BASE, pump pivot | 2 | | | | |
| 41 | | SCREW, flanged, hex hd. | 8 | | | | |
| 42₽ | | ARM, pump pivot | 2 | | | | |
| 43 ∔ | | BEARING, pump tip | 4 | | | | |
| 44 ● | | SCREW, cap hex hd. | 2 | | | | |
| 45 | | PLUNGER | 1 | | | | |
| 46 | 2003794 | BRACKET, receiver | 1 | | | | |
| 47* | | DRIVER | 2 | | | | |
| 48 | | BLOCK, driver mounting | 4 | | | | |
| 49*‡ | | SCREW | 8 | | | | |
| 55* | | LABEL, identification | 2 | | | | |
| 58* | | BAND | 2 | | | | |
| 59* | | LABEL, operations | 2 | | | | |
| 60 | | MODULE, fluid | 1 | | | | |
| 61 | 510490 | CLAMP | 2 | | | | |

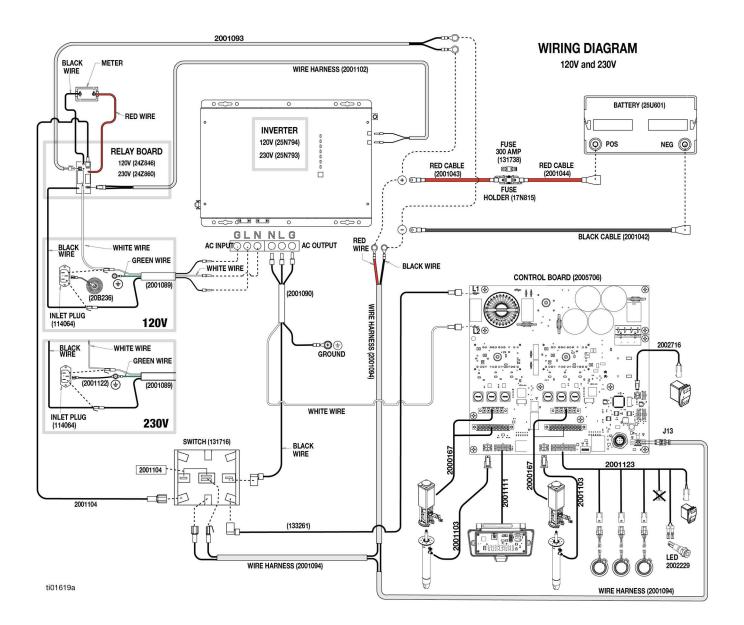
Enclosure Component Parts



Enclosure Component Parts List

| Ref. | Part | Description | Qty | Ref. | Part | Description | Qty |
|------|--------|---------------------------|-----|---------|--------------|------------------------------------|-----|
| 18* | | SCREW, hex hd., flanged | 8 | 54 | | SCREW, mach., hex washer hd. | 4 |
| 19*� | | WASHER | 12 | 65 | | SCREW, cap | 2 |
| 20*� | | NUT, lock | 8 | 87 | | SHROUD | 2 |
| 22 | | SCREW, mach., hex hd, | 6 | 88 | | SCREW, hex hd, | 2 |
| 34 | | INVERTER/CHARGER | 1 | 91 | | COVER, enclosure | 1 |
| | 25N794 | 120V | | 100▲ | 2001493 | LABEL, Warning | |
| | 25N793 | 230V | | | | | |
| 37 | 25U740 | FILLER, plastic, foam | 1 | * Inclu | ded in Flu | id Manifold Kit (#2003160) | |
| 38 | 25U601 | BATTERY, lithium, 12V | 1 | ✤ Incl | uded in M | ix Hose Kit (#2002743) | |
| 39 | | ENCLOSURE, system control | 1 | † Inclu | uded in Re | ear Wheel Kit (#2005984) | |
| 51 | | HOLDER, on/off switch | 1 | | | | |
| 52† | | LABEL, dispensing switch | 1 | • | | safety labels, tags, and cards are | |
| 53† | | SWITCH, rocker | 1 | avai | ilable at no |) COSL | |

Wiring Diagram



Technical Specifications

| TruMix XT | | | | |
|---------------------------------------|--|--|--|--|
| | US | Metric | | |
| Dimensions | | | | |
| Height | Unpackaged: 41.25 in. Packaged: 53.0in. | Unpackaged: 104.78 cm Packaged: 134.62 cm | | |
| Width | Unpackaged: 31.25 in. Packaged: 39.0 in. | Unpackaged: 79.38 cm Packaged: 99.06 cm | | |
| Length | Unpackaged: 72.00 in. Packaged: 75.0 in. | Unpackaged: 182.88 cm Packaged: 190.5 cm | | |
| Weight w/ 1 battery (dry - no materia |) Unpackaged: 325 lbs. Packaged: 425 lbs. | Unpackaged: 148 kg. Packaged: 193 kg | | |
| Output* | | | | |
| Maximum Delivery (1:1)* | 2.0 gpm | 7.6 lpm | | |
| Maximum Delivery (2:1)* | 1.5 gpm | 5.7 lpm | | |
| Maximum Delivery (4:1)* | 1.2 gpm | 4.5 lpm | | |
| Maximum Working Pressure | 600 psi | 41.4 bar, 4.14 mPa | | |
| DC Input | | • | | |
| Nominal Input Voltage | 12.0 Vdc | | | |
| Minimum Start Voltage | 10. | 0 Vdc | | |
| Low Battery Alarm | 11.0 Vdc | | | |
| Low Battery Trip | 10. | 5 Vdc | | |
| High Voltage Alarm and Fault | 16. | 0 Vdc | | |
| High DC Input Recovery | 15. | 5 Vdc | | |
| Lower Battery Voltage Recovery | 13. | 0 Vdc | | |
| Idle Consumption-Search Mode | 6 | 60W | | |
| Charge** | | | | |
| Input Voltage Range | | C / 200-240 VAC rease at low end of voltage range | | |
| Input Frequency Range | 50/60 Hz | | | |
| Batteries | | | | |
| Nominal Battery Pack Voltage | 12 | 2 Vdc | | |
| Туре | Lithium (LiFePo4) | | | |
| Voltage (Nominal) | 12 Vdc | | | |
| Dimensions | 12.1 in. x 6.6 in. x 8.7 in. 307 mm x 168 mm x 221 | | | |
| Capacity (Nominal, 20hr rate) | 100 Amp-hour / battery | | | |
| Charging Current | 27.1 ADC | | | |
| Battery Temperature | | | | |
| Operating | 14-113°F | -10-45°C | | |
| Charging | 32-113°F | 0-45°C | | |

| TruMix XT | | | | | |
|---|--------------------------|--------|--|--|--|
| | US | Metric | | | |
| Noise (dBa) | | | | | |
| Maximum sound pressure (ISO 3744) | 78.3 | 3 dBa | | | |
| Maximum sound power (ISO 3744) | 89.3 | 3 dBa | | | |
| Sound pressure measure 3.3 feet (1.0 |) meter) from equipment. | | | | |
| Vibration (m/s ²) | | | | | |
| Right-hand (per ISO 5349) | 5 | .37 | | | |
| Left-hand (per ISO 5349) | 6 | .21 | | | |
| Materials of Construction | | | | | |
| Wetted materials on all models PTFE, nylon, UHMPWE, acetal, tungsten carbide, stainless steel, chro plating, nickel-plated carbon steel, ceramic, FKM polypropylene | | | | | |
| Notes | | | | | |
| * Higher ratios and material viscosity will reduce output. Lower temperatures may also reduce output. | | | | | |
| ** If unable to charge battery, or run the system while plugged in, check incoming voltage and frequency. | | | | | |

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Recycling and Disposal

This section includes information on how to properly recycle and dispose of a product at the end of its useful life.

Rechargeable Battery Disposal

Do not place batteries in the trash. Recycle batteries according to local regulations. In the USA and Canada, call 1-800-822-8837 to find recycling locations or go to www.call2recycle.org.

Do not place batteries in the trash. Recycle batteries according to local regulations.



End of Product Life

At the end of the product's useful life, dismantle and recycle it in a responsible manner.

- Perform the Pressure Relief Procedure, page 15.
- Drain and dispose of fluids according to applicable regulations. Refer to the material manufacturer's Safety Data Sheet.
- Remove motors, batteries, circuit boards, LCDs (liquid crystal displays), and other electronic components. Recycle according to applicable regulations.
- Do not dispose of batteries or electronic components with household or commercial waste.
- Deliver remaining product to a recycling facility.

California Proposition 65

CALIFORNIA RESIDENTS

MARNING: Cancer and reproductive harm – www.P65warnings.ca.gov.

Graco Standard Warranty

Graco warrants all equipment referenced in this document which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale to the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

This warranty does not cover, and Graco shall not be liable for general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non-Graco component parts. Nor shall Graco be liable for malfunction, damage or wear caused by the incompatibility of Graco equipment with structures, accessories, equipment or materials not supplied by Graco, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by Graco.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized Graco distributor for verification of the claimed defect. If the claimed defect is verified, Graco will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and transportation.

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For patent information, see www.graco.com/patents.

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Original instructions. This manual contains English. MM 3B0119

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