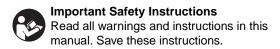


XM Plural-Component Sprayers

313289U

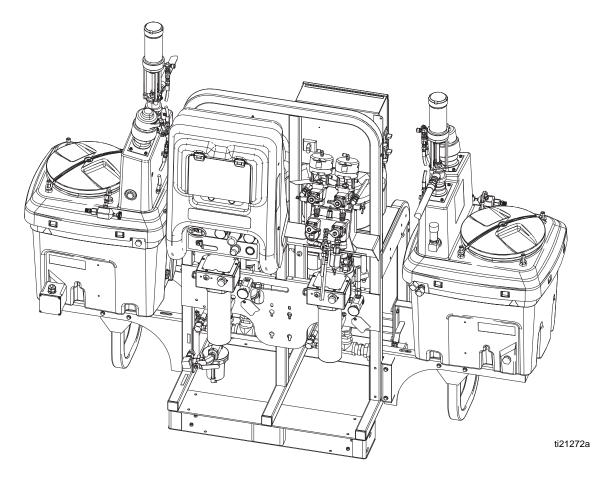
ΞΝ

For spraying two-component epoxy and urethane protective coatings in hazardous and non-hazardous locations. For professional use only.



See pages 7 and 8 for model information and agency approvals.

See page 75 for maximum working pressure.





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Related Manuals

Manuals are available at www.graco.com.

Component Manuals in U.S. English:

| Manual | Description | | | |
|--------|--|--|--|--|
| 312359 | XM Plural-Component Sprayers Operation | | | |
| 313292 | XM Plural-Component OEM Sprayers Instructions-Parts | | | |
| 311762 | Xtreme® Displacement Pumps Instructions-Parts | | | |
| 311238 | NXT [™] Air Motor Instructions-Parts | | | |
| 312747 | Double Wall Hopper Kit Instructions-Parts | | | |
| 309524 | Viscon [®] HP Heater Instructions-Parts | | | |
| 312145 | XTR [™] 5 and XTR [™] 7 Spray Guns Instructions-Parts | | | |
| 312769 | Feed Pump and Agitator Kits Instructions-Parts | | | |
| 312794 | Merkur® Pump Assembly Instructions-Parts | | | |
| 406699 | 7-Gallon Hopper Installation Kit Instructions-Parts | | | |
| 406739 | Desiccant Kit Instructions-Parts | | | |
| 406690 | Caster Kit Instructions-Parts | | | |
| 406691 | Hose Rack Kit Instructions-Parts | | | |
| 313258 | Electric Heated Hose Power Supply Kit Instructions-Parts | | | |
| 313259 | Hopper or Hose Heat Circulation Kit Instructions-Parts | | | |
| 312770 | Lower Strainer and Valve Kit Instructions-Parts | | | |
| 312749 | XM Mix Manifold Kit Instructions-Parts | | | |
| 313293 | Alternator Conversion Kits Instructions-Parts | | | |
| 313342 | Dosing Valve Repair Kit Instructions-Parts | | | |
| 313343 | High Flow Severe Duty Shutoff Check Valve Repair Kit Instructions-Parts | | | |

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 symbol refers to procedure-specific risk. Refer back to these warnings. Additional, product-specific warnings may be found throughout the body of this manual where applicable.

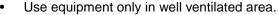
AWARNING



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:





- Eliminate all ignition sources; such as pilot lights, cigarettes, portable electric lamps, and plastic drop cloths (potential static arc).
- Keep work area free of debris, including solvent, rags and gasoline.
- Do not plug or unplug power cords, or turn power or light switches on or off when flammable fumes are present.
- Ground all equipment in the work area. See Grounding instructions.
- · Use only grounded hoses.
- Hold gun firmly to side of grounded pail when triggering into pail.
- If there is static sparking or you feel a shock, **stop operation immediately.** Do not use equipment until you identify and correct the problem.
- Keep a working fire extinguisher in the work area.
- Do not connect USB device in explosive atmospheres.



SPECIAL CONDITIONS FOR SAFE USE

- To prevent the risk of electrostatic sparking, the equipment's non-metallic parts must be cleaned with only a damp cloth.
- Refer to the Viscon HP Heater manual for special conditions for safe use.



ELECTRIC SHOCK HAZARD

Improper grounding, setup, or usage of the system can cause electric shock.

- Turn off and disconnect power at main switch before disconnecting any cables and before servicing equipment.
- Connect only to grounded power source.
- All electrical wiring must be done by a qualified electrician and comply with all local codes and regulations.

WARNING



INTRINSIC SAFETY





Intrinsically safe equipment that is installed improperly or connected to non-intrinsically safe equipment will create a hazardous condition and can cause fire, explosion, or electric shock. Follow local regulations and the following safety requirements.

- Only models with model number XM_D_ or XM_E_ , and packaged models with part numbers ending in 00-13, 17-23, 27-29, 31, utilizing the air-driven alternator are approved for installation in a Hazardous (explosive atmosphere) Location - see Approvals:, page 8. Only the models stated above meet all local safety fire codes including NFPA 33, NEC 500 and 516, and OSHA 1910.107. To help prevent fire and explosion:
 - Do not install equipment approved only for a non-hazardous location in a hazardous location. See model ID label for intrinsic safety rating of your model.
 - Do not substitute system components as this may impair intrinsic safety.
- Equipment that comes in contact with the intrinsically safe terminals must be rated for Intrinsic Safety. This includes DC voltage meters, ohmmeters, cables, and connections. Remove the unit from the hazardous area when troubleshooting.
- Do not connect, download, or remove USB device unless unit is removed from the hazardous (explosive atmosphere) location.
- If explosion-proof heaters are used, ensure wiring, wiring connections, switches, and electrical distribution panel all meet flame-proof (explosion-proof) requirements.



SKIN INJECTION HAZARD

High-pressure fluid from gun, hose leaks, or ruptured components will pierce skin. This may look like just a cut, but it is a serious injury that can result in amputation. Get immediate surgical treatment.



- Do not point gun at anyone or at any part of the body.
- Do not put your hand over the spray tip.
- Do not stop or deflect leaks with your hand, body, glove, or rag.
- Do not spray without tip guard and trigger guard installed.
- Engage trigger lock when not spraying.
- Follow Pressure Relief Procedure in this manual, when you stop spraying and before cleaning, checking, or servicing equipment.



PRESSURIZED EQUIPMENT HAZARD

Fluid from the gun/dispense valve, leaks, or ruptured components can splash in the eyes or on skin and cause serious injury.

- Follow Pressure Relief Procedure in this manual, when you stop spraying 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 or amputate fingers and other body parts.

- Keep clear of moving 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** in this manual. Disconnect power or air supply.

AWARNING



EQUIPMENT MISUSE HAZARD

Misuse can cause death or serious injury.

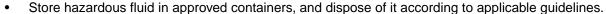
- Do not operate the unit when fatigued or under the influence of drugs or alcohol.
- Do not exceed the maximum working pressure or temperature rating of the lowest rated system component. See **Technical Data** in all equipment manuals.
- Use fluids and solvents that are compatible with equipment wetted parts. See **Technical Data** in all
 equipment manuals. Read fluid and solvent manufacturer's warnings. For complete information
 about your material, request MSDS forms from distributor or retailer.
- Check equipment daily. Repair or replace worn or damaged parts immediately with genuine manufacturer's replacement parts only.
- Do not alter or modify equipment.
- 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.
- Keep children and animals away from work area.
- Comply with all applicable safety regulations.



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.





• Always wear impervious gloves when spraying or cleaning equipment.



BURN HAZARD

Equipment surfaces and fluid that's heated can become very hot during operation. To avoid severe burns, do not touch hot fluid or equipment. Wait until equipment/fluid has cooled completely.



PERSONAL PROTECTIVE EQUIPMENT

You must wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect you from serious injury, including eye injury, inhalation of toxic fumes, burns, and hearing loss. This equipment includes but is not limited to:

- Protective evewear
- Clothing and respirator as recommended by the fluid and solvent manufacturer
- Gloves
- Hearing protection

Models



XM sprayers are not approved for use in hazardous locations unless the base model, all accessories, all kits, and all wiring meet local, state, and national codes.

Check the identification plate (ID) for the 6-digit part number of the sprayer. Use the following matrix to define the construction of the sprayer, based on the six digits. For example, Part **XM1A00** represents an XM Plural-Component sprayer (**XM**); 5200 psi pump set with pump filters (1); wall power supply, no heaters, no junction box, and is not approved for hazardous areas (**A**); with no additional kits (**00**).

NOTE:

Some configurations in the following matrix cannot be built. Consult with distributor or Graco representative.

To order replacement parts, see **Parts** section in this manual. The digits in the matrix do not correspond to the Ref. Nos. in the Parts drawings and lists.

| XM | 1 Third Digit | | | | | A Fourth Digit | | | | | |
|-------------------------------|---------------|------------------------|---|--------------------|---|-------------------|------------------|-----------------|----------------------|--|----------------------------------|
| First and Second Digits | | | | | | | | | | | |
| | | | System Choice Table 1 for lower models) Kit Choice | | | | | | Additional Kit | | |
| | | Pump Set (hose/gun) | Pump Filters | Remote Manifold | | Control Box | Fluid Heaters | Junction Box | Location Category | Approvals (See page 8 for approvals) | See Table 2 for selections |
| XM | | | / | | | Wall Power | | | | CE, FM, | |
| (plural | 1 | 5200 psi | | | Α | Supply | | | NE | FMc | |
| component sprayer | | | | | | Wall Power | ~ | ~ | NE | CE, FM, | |
| mounted | 2 | 5200 psi | | | В | Supply | | | | FMc | |
| on a frame) | | | ~ | | | Wall Power | ~ | | NE | CE, FM, | |
| | 3 | 6300 psi | | | С | Supply | | | | FMc | |
| | 4 | 6300 psi | | | D | IS/ Alternator | | | EH | CE, FM, FMc, Ex | |
| | | | \ | V | | IS/ | ~ | | | CE, FM, | |
| | 5 | 5200 psi | | | Ε | Alternator | | | EH | FMc, Ex | |
| | 6 | 5200 psi | | ~ | | | _ | | | | |
| | 7 | 6300 psi | / | ~ | | | _ | | | | |
| | 8 | 6300 psi | _ | ~ | | | | _ | | | _ |

Location Category Key:

NE Not for use in European explosive atmosphere locations or hazardous locations.

EH For use in explosive atmospheres and hazardous locations.

Approvals:

See appropriate column on page 7.

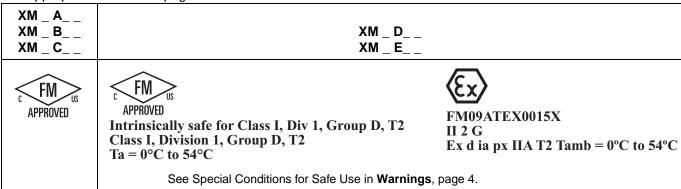


Table 1: Lower Models and Corresponding Identification Codes

| Code | System Pressure (MPa, bar) | Pump Filters | A Lower (see manual 311762) | B Lower (see manual 311762) |
|--------|-------------------------------|-----------------|--------------------------------|--------------------------------|
| 1 or 5 | 5200 psi (35, 350) | V | L250C4 | L220C4 |
| 2 or 6 | 5200 psi (35, 350) | | L250C3 | L220C3 |
| 3 or 7 | 6300 psi (49, 490) | V | L180C4 | L145C4 |
| 4 or 8 | 6300 psi (49, 490) | | L180C3 | L145C3 |

Table 2: Additional Kits - Identification Code Index

| | 20 Gal. Hopper Kit | | Fluid | Hopper Universal Mount Kit | Twistork | | 5:1 Pump Feed Kit (on hopper) | and | 7 Gal. Hopper (Blue) and Bracket Kit | | (Dual 5:1 and | Circulation |
|----|--------------------------|---|-------|----------------------------------|----------|---|--|-----|---|---|------------------|-------------|
| 00 | | | | | | | | | | | | |
| 11 | 1 | | 1 | 1 | 1 | | | 1 | | | | |
| 13 | 1 | | | 1 | 1 | | 1 | 1 | | | | |
| 14 | 1 | 1 | 1 | 1 | 1 | | | 1 | | | | |
| 15 | 1 | 1 | | 1 | 1 | 1 | | 1 | | | | |
| 16 | 1 | 1 | | 1 | 1 | | 1 | 1 | | | | |
| 17 | 1 | | 1 | 1 | 1 | | | 1 | | | | 1 |
| 19 | 1 | | | 1 | 1 | | 1 | 1 | | | | 1 |
| 21 | 2 | | 2 | 2 | 2 | | | | | | | |
| 23 | 2 | | | 2 | 2 | | 2 | | | | | |
| 24 | 2 | 2 | 2 | 2 | 2 | | | | | | | |
| 25 | 2 | 2 | | 2 | 2 | 2 | | | | | | |
| 26 | 2 | 2 | | 2 | 2 | | 2 | | | | | |
| 27 | 2 | | 2 | 2 | 2 | | | | | | | 1 |
| 29 | 2 | | | 2 | 2 | | 2 | | | | | 1 |
| 30 | | | | | | | | | | 2 | | |
| 31 | | | | | | | | | | | 2 | |
| 32 | | | | | | | | 1 | 1 | | | _ |

NOTE: See **Repair and Spare Parts Reference**, page 69, for more information. See **Related Manuals**, page 3, for kit manual numbers.

Overview







XM sprayers are not approved for use in hazardous locations unless the base model, all accessories, all kits, and all wiring meet local, state, and national codes. See **Models**, page 7, to determine the appropriate location for your particular model.

Isocyanate Hazard











Spraying materials containing isocyanates creates potentially harmful mists, vapors, and atomized particulates.

Read material manufacturer's warnings and material MSDS to know specific hazards and precautions related to isocyanates.

Prevent inhalation of isocyanate mists, vapors, and atomized particulates by providing sufficient ventilation in the work area. If sufficient ventilation is not available, a supplied-air respirator is required for everyone in the work area.

To prevent contact with isocyanates, appropriate personal protective equipment, including chemically impermeable gloves, boots, aprons, and goggles, is also required for everyone in the work area.

Material Self-Ignition











Some materials may become self-igniting if applied too thick. Read material manufacturer's warnings and material MSDS.

Moisture Sensitivity of Isocyanates

Isocyanates (ISO) are catalysts used in two component foam and polyurea coatings. ISO will react with moisture (such as humidity) to form small, hard, abrasive crystals, which become suspended in the fluid. Eventually a film will form on the surface and the ISO will begin to gel, increasing in viscosity. If used, this partially cured ISO will reduce performance and the life of all wetted parts.

NOTE:

The amount of film formation and rate of crystallization varies depending on the blend of ISO, the humidity, and the temperature.

To prevent exposing ISO to moisture:

- Always use a sealed container with a desiccant dryer in the vent, or a nitrogen atmosphere. Never store ISO in an open container.
- Keep the ISO lube pump reservoir filled with Graco Throat Seal Liquid (TSL), Part 206995. The lubricant creates a barrier between the ISO and the atmosphere.
- Use moisture-proof hoses specifically designed for ISO, such as those supplied with your system.
- Never use reclaimed solvents, which may contain moisture. Always keep solvent containers closed when not in use.
- Never use solvent on one side if it has been contaminated from the other side.
- Always park pumps when you shutdown.
- Always lubricate threaded parts with Part 217374
 ISO pump oil or grease when reassembling.

Components A and B

IMPORTANT!

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

Be aware that in this manual: *Component A* refers to resin or major volume.

Component B refers to the hardener or minor volume.

NOTE:

This equipment doses the B component into the A component flow. An integration hose must always be used after the mix manifold.

Follow these recommendations for reassembly and setup:

- use at least a 3/8 in. (10 mm) x 25 ft. (7 m) hose.
- install a 24-element static mix tube after the integration hose.

Keep Components A and B Separate

NOTICE

To prevent cross-contamination of the equipment's wetted parts, **never** interchange component A (resin) and component B (hardener) parts.

Changing Materials

- When changing materials, flush the equipment multiple times to ensure it is thoroughly clean.
- Always clean the fluid inlet strainers and outlet filter after flushing. See Flush on page 14.
- Check with your material manufacturer for chemical compatibility.
- Epoxies often have amines on the B (hardener) side. Polyureas often have amines on the A (resin) side.

NOTE:

If the amine will switch between the two sides, see **Flush** on page 14.

Before Repair

Location









XM sprayers are not approved for use in hazardous locations unless the base model, all accessories, all kits, and all wiring meet local, state, and national codes. See Models, page 7, to determine the appropriate location for your particular model.

Grounding



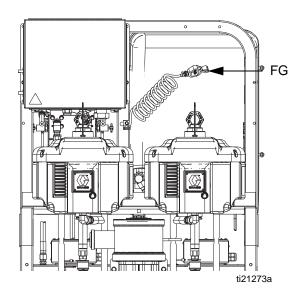




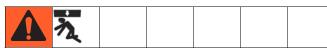




Connect ground wire clamp (FG) to a true earth ground. If wall power is used to power controls or heaters, ground electrical connection properly according to local codes.



Proper Lifting of Sprayer



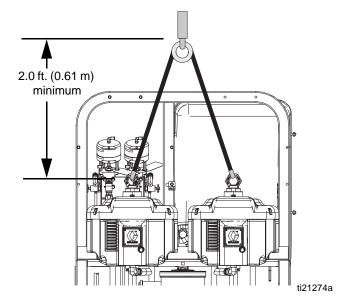
Follow instructions to avoid serious injury or damage to equipment. Never lift with the hopper(s) filled.

Lift Using a Forklift

Power must be off. Sprayer can be raised and moved using a forklift. Carefully lift the sprayer; make sure it balances evenly.

Lift Using a Hoist

Sprayer can also be lifted and moved using a hoist. Connect a bridle swing, hooking an end to each of the air motor lift rings. Hook the center ring to a hoist Carefully lift the sprayer; make sure it balances evenly.



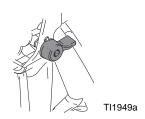
Pressure Relief Procedure



Follow **Pressure Relief Procedure** when you stop spraying or dispensing; and before cleaning, checking, servicing, or transporting equipment.

Relieve A and B Fluid Pressure

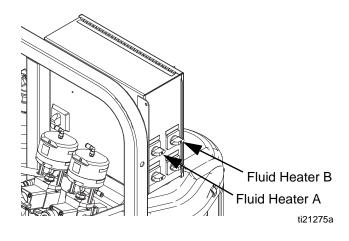
1. Engage trigger lock.



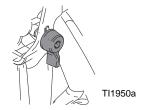
2. Press



3. If fluid heaters are used, shut them off using the controls on the heater control box.



- 4. Shut off feed pumps, if used.
- 5. Remove spray tip and clean.
- 6. Disengage trigger lock.



7. Hold a metal part of the gun firmly to a grounded metal pail with a splash guard in place. Trigger gun to relieve pressure in material hoses.

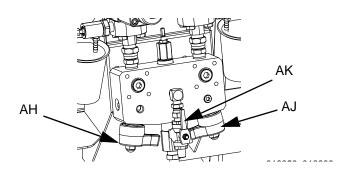


8. Engage trigger lock.

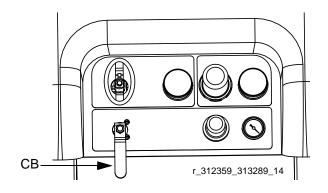


Relieve Pump Fluid Pressure

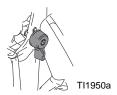
9. Close mix manifold valves (AH, AJ), then open solvent flush valve (AK) on mix manifold.



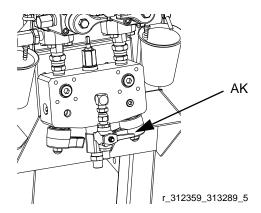
10. Open solvent pump air control (CB). Use lowest pressure needed to flush material out of hose.



11. Disengage trigger lock.



- 12. Hold a metal part of the gun firmly to a grounded metal pail with a splash guard in place. Trigger gun to flush mixed material out of line with clean solvent.
- 13. Shut off solvent pump on air control panel.
- 14. Repeat steps 11 and 12. Then continue to step 15.
- 15. Close solvent flush valve (AK) on mix manifold.



Release any residual gun pressure and engage trigger lock.



Flush Before Using Equipment

The equipment was tested with lightweight oil, which is left in the fluid passages to protect parts. To avoid contaminating your fluid with oil, flush the equipment with a compatible solvent before use. See **Flush** on page 14.

Flush

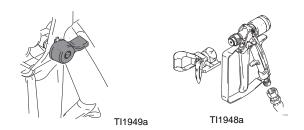
Flush Mixed Material



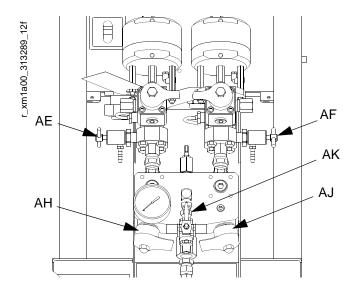
Flush Mix Manifold

Use Solvent Pump

1. Press to turn off system. Follow **Pressure**Relief Procedure, page 12. Engage trigger lock.
Remove spray tip.

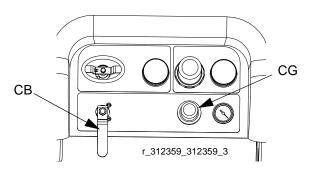


2. Close sampling valves (AE, AF) and mix manifold valves (AH, AJ).

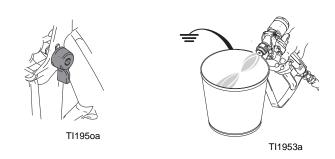


3. Open solvent shutoff valve (AK) at mix manifold.

 Open solvent pump air control (CB). Pull out and slowly turn solvent pump air regulator (CG) clockwise to increase air pressure. Use lowest possible pressure.



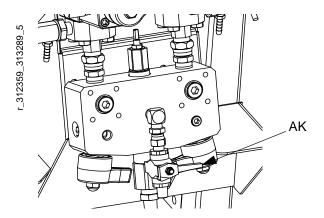
5. Disengage trigger lock. Hold a metal part of the gun firmly to a grounded metal pail with a splash guard in place. Use a pail lid with a hole in it to dispense through. Be careful to keep fingers away from the front of the gun. Trigger gun until solvent appears.



6. Engage trigger lock.



7. Close solvent pump air valve (CB) and solvent shutoff valve (AK) at mix manifold.



- 8. Follow Pressure Relief Procedure, page 12.
- 9. Engage trigger lock.



10. Disassemble and clean spray tip with solvent by hand. Reinstall on the gun.

Empty and Flush Entire System (new sprayer or end of job)











NOTE:

- If system includes heaters and heated hose, turn them off and allow to cool before flushing. Do not turn on heaters until fluid lines are clear of solvent.
- Use the lowest possible pressure when flushing to avoid splashing.
- Before color change or shutdown for storage, flush at a higher flow rate and for a longer time.
- To flush only mix manifold, see Flush Mix Manifold procedure page 14.

Guidelines

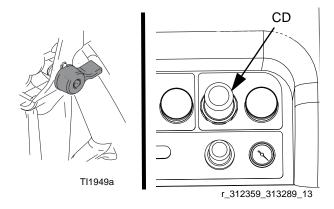
Flush new systems if coating materials will be contaminated by 10W oil.

Flush system when any of the following situations occur. Flushing will help prevent materials from clogging the line between hoppers and pump inlets.

- anytime sprayer will not be used for more than one week
- if materials used will settle
- if using thixotropic resins that require agitation

Procedure

1. Follow Pressure Relief Procedure, page 12, and Flush Mixed Material, page 14, as required. Engage trigger lock. Turn main pump air regulator (CD) fully counter-clockwise to shut off.



NOTE:

When flushing coating materials remove pump fluid filters, if installed, and soak in solvent to decrease cleaning time. Proceed with Step 2. If flushing a new system, leave filters in place.

- 2. Move circulation return lines to separate fluid containers to pump remaining fluid out of system.
- 3. Increase main pump air regulator (CD) pressure to 30 psi (21 kPa, 2.1 bar).



NOTE:

When running pumps independently set to





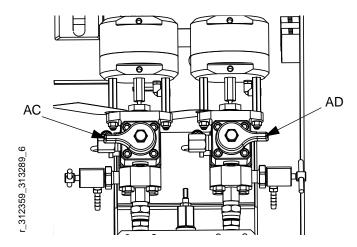




NOTE:

If sprayer does not start with static pressure, increase air pressure by 10 psi (69 kPa, 0.7 bar) increments. To avoid splashing do not exceed 40 psi (28 kPa, 2.8 bar).

 Open recirculation valves (AC, AD) for respective pump dispense side. Run pumps until the A and B reservoirs are empty. Salvage the material in separate, clean containers.



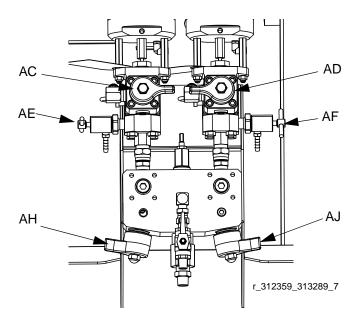
NOTE:

When priming or flushing the pumps, it is normal to get cavitation or pump runaway alarms. Clear the alarms

again as necessary. These alarms prevent excessive pump speeds that can damage pump packings.

- 6. Wipe the reservoirs clean, then add solvent to each. Move circulation lines to waste containers.
- 7. Repeat Step 4 to flush through each side until clean solvent exits recirculation hose.
- Stop and move recirculation hoses back to reservoirs. Continue recirculating until machine is thoroughly flushed.

9. Close recirculation valves (AC, AD) and open mix manifold valves (AH, AJ). Dispense fresh solvent through mix manifold valves and out gun.



- 10. Close mix manifold valves (AH, AJ).
- 11. Slowly open sampling valves (AE, AF) to flush solvent through until clean. Close sampling valves.



- 12. Follow Pressure Relief Procedure, page 12.
- Remove pump fluid filters, if installed, and soak in solvent. Clean and replace filter cap. Clean filter o-rings and leave out to dry. Do not leave o-rings in solvent.
- 14. Close main air valve (E).

NOTE:

Always leave some type of fluid, such as solvent or oil, in the system to prevent scale build up. This build up can flake off later. Do not use water.

Shutdown Entire System

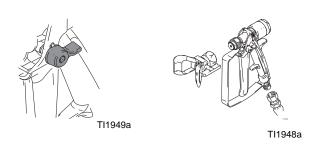
Follow this procedure before prolonged shutdown or before servicing equipment.

 Follow Pressure Relief Procedure, page 12. Place gun over pail. Trigger gun; wait until pumps are down.



TI1953a

Engage trigger lock, turn off air regulator, and close main air shutoff valve. Remove spray tip.



- 3. Follow flushing procedure, see Flush on page 14.
- 4. Follow **Pressure Relief Procedure**, page 12. Engage trigger lock.



- 5. For prolonged shutdown (one week or longer):
 - Follow flushing procedure, see Empty and Flush Entire System (new sprayer or end of job) on page 16.
 - Cap fluid outlets to keep solvent in the lines.
 - Fill pump A and B packing nuts with throat seal liquid (TSL).

Cleaning Procedure



- Ensure all equipment is grounded. See Grounding, page 11.
- 2. Turn off all heaters and allow equipment to cool.
- 3. Flush mixed material. See **Flush Mixed Material**, page 14.
- 4. Relieve pressure. See **Pressure Relief Procedure**, page 12.
- 5. Shutdown sprayer and turn off all power. See **Shutdown Entire System**, page 18.
- 6. Ensure the area where the sprayer will be cleaned is well ventilated; and remove all ignition sources.
- 7. Clean external surfaces using only a rag soaked in solvent that is compatible with the spray material and the surfaces being cleaned.
- 8. Allow enough time for solvent to dry before using sprayer.

Troubleshooting











To avoid injury due to unexpected machine operation initiated by a remote controller, disconnect the customer I/O cable from the system prior to troubleshooting.

NOTE: The sprayer operates using air pressure. Many problems are caused by inadequate air supply. The inlet air pressure gauge cannot drop below 50 psi (0.35 MPa, 3.5 bar) while running.

NOTE: If an error code displays, see manual 312359.

| Problem | Cause | Solution | | | |
|---|--|---|--|--|--|
| Display not lit on system with alternator | Air valve not turned on. | Turn on main air valve to system. | | | |
| power supply. | Air supply pressure too low. | Increase pressure to 30 psi (0.21 MPa, 2.1 bar) or greater. | | | |
| No electric power. | Air supply filters plugged. Inlet manifold filter (604) or air regulator (344) filter plugged. | Clean filter bowls; replace filter elements. Page 21. | | | |
| | Turbine air regulator (277) set too low. | Adjust to 18 +/- 1 psi (12.6 +/- 10 kPa, 1.26 +/- 0.07 bar). | | | |
| | Alternator turbine failure. | Repair or replace turbine. Page 28. | | | |
| | Power supply not connected to main board. | Check power connections to main board. See Electrical Schematics , starting on page 37. | | | |
| | Display board failure. | Replace display board. Page 25. | | | |
| Display not lit on system with alternator power. Green light is present on FCM | Faulty CAN cable (268). Or CAN cable is disconnected. | Check cable and replace. See Alternator Assembly , page 62. | | | |
| (218) and USB (219), but no green light is present on back of display module (204). | Faulty display module. | Replace display module. See User Interface/ Control Box, page 22. | | | |
| Display not lit on system with wall power supply. No green light present on back of | No electric power. Disconnect "off" or breaker "open." | Reset main disconnect and breaker. | | | |
| display module (204). | No green lights present on display, FCM, or USB module. | Check for 24 Vdc on J1, pins 2 and 3, of power supply. See Electrical Schematics , starting on page 37. If there is not 24 Vdc, replace with 15V747. | | | |
| | No display power through CAN cable (266). Green light in present on FCM (218), but is not present on USB module (219). | Check CAN cable. Replace if necessary. See Wall Power Supply Assembly , page 63. | | | |
| | Green light is present on USB module (219). | Check CAN cable (274). Replace if necessary. See Wall Power Supply Assembly , page 63. | | | |
| Display not lit on system with wall power supply. Green light is present on back of display module (204). | Display module failed. | Replace display module. See User Inter- face/Control Box , page 22. | | | |
| Pumps do not run when Run Mode is selected and the blue LED is | Air pressure to pumps too low | Increase pressure to 50 psi (0.35 MPa, 3.5 bar) or greater. | | | |
| illuminated. | Air pilot lines are obstructed | Check pilot lines for kinks or pinches. | | | |
| | Solenoid valve stuck. | Actuate solenoid manually, if it does not operate, replace solenoid. Page 22. | | | |
| | Air pilot valve(s) to motor stuck. | Replace valve(s). Page 32. | | | |
| | Metering valve(s) not opening. | Service or replace valve(s). Page 32. | | | |
| | Air motor stalled. | See manual 311238. | | | |

| Problem | Cause | Solution | | | |
|---|---|--|--|--|--|
| Pump Test completes without error, but A or B component has more than 750cc of | Incorrect pumps were selected in System Setup screens. | See Appendix A, in manual 313359. | | | |
| fluid in beaker. | Air is trapped in fluid due to excessive | Repeat Pump Test with fresh fluid. | | | |
| | agitation, circulation, and heat. Fluid is measured by volume when it is compressed under pressure. | If the specific gravity of each fluid is known, check samples by weight (750cc x specific gravity equals weight in grams). | | | |
| | | If weight is correct, extra volume in beaker is air. | | | |
| Batch Test completes without error, but A or B component has more fluid in beaker than displayed on screen. | See causes for previous pump test problem. | See solutions for previous pump test problem. | | | |
| Sprayer does not start when start button is pressed. | Faulty start switch or wire harness. | Check start switch and wiring harness continuity; switch is normally open circuit. | | | |
| | | See Electrical Schematics , starting on page 37. | | | |
| | Faulty stop switch or wiring harness. | Check stop switch and wiring harness continuity; stop switch is normally closed circuit. See Electrical Schematics , starting on page 37. | | | |
| Fluid valves leaking. | Loose or worn packings. | Tighten packing nut. If leak continues, replace packings. | | | |
| Paint does not cure consistently. | Ratio not set correctly. | Check that correct ratio is set and set by volume. See manual 312359. | | | |
| | Material not mixing correctly. | Test pump. Make sure mixer is clean; flush as needed. See manual 312359. | | | |
| | | Position mixer after integrator hose. | | | |
| | Material not properly conditioned before it was added to sprayer. | Mix material thoroughly. | | | |
| | Not using enough integration hose. | Add more integration hose. | | | |
| | | Select "fast dosing" in setup. | | | |
| Poor spray pattern. | Fluid pressure too low. | Increase pump pressure. | | | |
| Also, see "System runs erratically" below. | Fluid temperature too low. | Increase fluid temperature. | | | |
| | Spay tip dirty or worn. | Relieve pressure. Clean or replace tip. Follow gun manual instructions. | | | |
| | Fluid A and B fitters plugged. | Clean filters. See pump manual. | | | |
| | Mixer hoses partially plugged or too restrictive. | Inspect parts for cured material. Clean or replace, or use larger hoses and mixer. | | | |

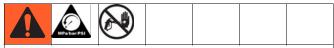
Repair



Follow **Shutdown Entire System** procedure, page 18, if service time may exceed pot life time, before servicing fluid components, and before transporting sprayer to a service area.

Replace Air Filter Element

There are two air filters on the system: the inlet air regulator filter on the air controls and the main air inlet manifold filter. Check filters weekly and replace element as needed.



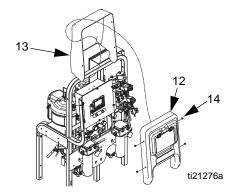
Removing a pressurized air filter bowl could cause serious injury. Do not service air filter until air line is depressurized.

Both Filters

1. Close main air shutoff valve on air supply line and on unit. Depressurize air line.

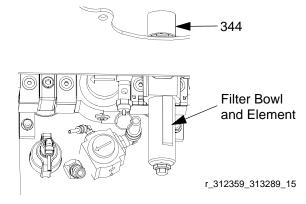
Control Air Regulator Filter

2. Remove front and rear shrouds (12, 13). Remove four nuts (14) and then shrouds.



3. Unscrew filter bowl from inlet air regulator (344).

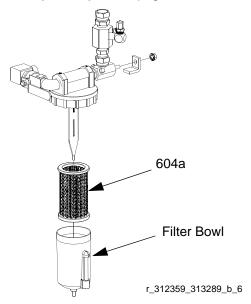
4. Remove and replace element.



5. Screw filter bowl on securely.

Main Air Inlet Manifold Filter

- 2. Unscrew filter bowl from main air inlet manifold (6).
- Remove and replace filter element (604a). See Air Inlet Manifold (255762) Parts, page 67.



- 4. Reassemble filter bowl.
- 5. Replace front and rear shrouds (12, 13) using four nuts (14).

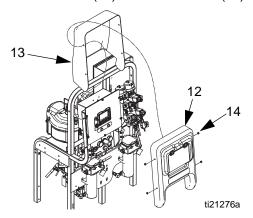
User Interface/Control Box

NOTE:

This section covers all components included in the wall power supply control box option and the instrinsically safe pneumatic power supply control box option.

Remove Shroud

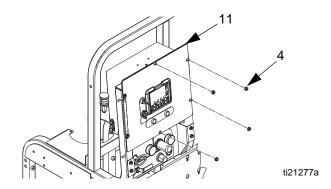
- 1. Close main air shutoff valve on air supply line and on system.
- Remove shrouds (12, 13) covering control box.
 Remove four nuts (14) and front shroud (12) first.



Replace Solenoid Module

Follow this procedure to replace a single solenoid

- Remove shroud. See Remove Shroud.
- 2. Disconnect power.
- 3. Remove four nuts (4); leave two nuts on left side of panel tight. Open front panel of control box (11).

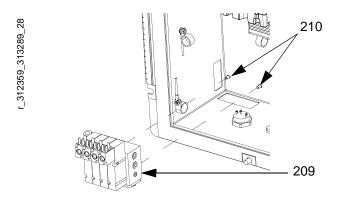


 Disconnect solenoid cable connectors (242) from solenoids. 5. Disconnect air tubing from solenoid manifold block (209).

NOTE:

If your sprayer is an intrinsically safe model, you will need to remove the alternator air regulator from the solenoid module. See **Replace Alternator Regulator**, page 29, for removal instructions.

Remove two screws (210).

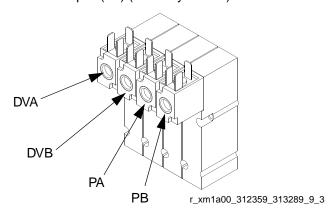


- 7. Remove and replace solenoid (209).
- 8. Reassemble screws (210) and solenoid cable connectors (242).

NOTE:

From left to right, solenoid functions are as follows:

- Dosing valve A (DVA) (normally open)
- Dosing valve B (DVB) (normally open)
- Pump A (PA) (normally closed)
- Pump B (PA) (normally closed)



Update USB Module Software

- 1. Remove shroud. See Remove Shroud.
- Use software token (206). See Graco Control Architecture[™] Module Programming manual for instructions.

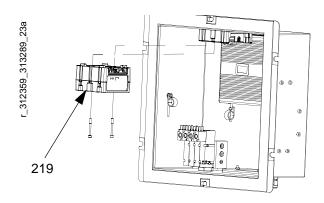
NOTE: Upgrade all modules in the system to the software version on the token, even if you are replacing only one or two modules. Different software versions may not be compatible.

All data in the module may be reset to factory default settings. Record all settings and user preferences before the upgrade, for ease of restoring them following the upgrade.

The latest software version for each system can be found at Tech Support at www.graco.com.

Replace USB Module

- Remove shroud. See Remove Shroud.
- 2. Disconnect power.
- 3. Remove four nuts (4); leave two nuts on left side of panel tight. Open front panel of control box (11).
- 4. Disconnect CAN cables and USB cable from USB module (219).
- 5. Remove two mounting screws from USB module and remove module from base.



- 6. Follow steps in reverse order to install new USB module.
- Load software. See Update USB Module Software.

Update Fluid Control Module (FCM) Software

- Remove shroud. See Remove Shroud.
- Use software token (206). See Graco Control Architecture[™] Module Programming manual for instructions.

NOTE: Upgrade all modules in the system to the software version on the token, even if you are replacing only one or two modules. Different software versions may not be compatible.

All data in the module may be reset to factory default settings. Record all settings and user preferences before the upgrade, for ease of restoring them following the upgrade.

The latest software version for each system can be found at Tech Support at www.graco.com.

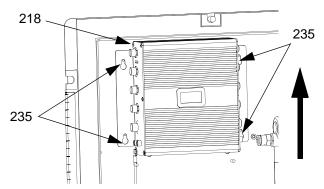
Replace Fluid Control Module (FCM)

NOTE:

The USB module does not need to be removed prior to replacing the FCM.

- Remove shroud. See Remove Shroud.
- 2. Disconnect power.
- 3. Remove four nuts (4); leave two nuts on left side of panel tight. Open front panel of control box (11).
- Remove all cables from FCM (218). Take note of cable locations.
- 5. Loosen four mounting screws (235).

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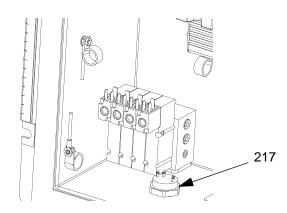


- 6. Slide FCM up and out of keyhole slots.
- 7. Follow steps in reverse order to install new FCM.
- 8. Load software. See **Update Fluid Control Module** (FCM) Software.
- Most of the system configuration is stored in the FCM. Use the display to change the configuration to the values in the old FCM. See XM plural-component operation manual for instructions.

Replace Alarm

- 1. Remove shroud. See Remove Shroud.
- 2. Disconnect power.
- 3. Remove four nuts (4); leave two nuts on left side of panel tight. Open front panel of control box (11).
- 4. Disconnect alarm wires from alarm (217).
- 5. Unscrew alarm (217) and replace.





- 6. Screw in new alarm. Reconnect alarm wires. Refer to **Electrical Schematics**, page 37.
- 7. Reassemble air control front shroud (12).

Display

Upgrade Software



Do not upgrade software when an explosive gas atmosphere may be present.

NOTICE

To avoid damaging circuit board, wear a grounding strap.

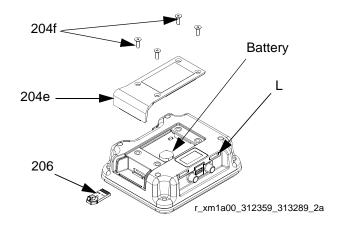
Use software token (206). See Graco Control Architecture [™] Module Programming manual for instructions.

NOTE: Upgrade all modules in the system to the software version on the token, even if you are replacing only one or two modules. Different software versions may not be compatible.

All data in the module may be reset to factory default settings. Record all settings and user preferences before the upgrade, for ease of restoring them following the upgrade.

The latest software version for each system can be found at Tech Support at www.graco.com.

- 1. Remove shroud. See Remove Shroud.
- 2. Disconnect power.
- 3. Remove four nuts (4); leave two nuts on left side of panel tight. Open front panel of control box (11).
- 4. Remove four screws (204f) and then access cover (204e).



5. Insert and press token (206) firmly into slot.

NOTE:

There is no preferred orientation of token.

- Turn power on.
- 7. The red indicator light (L) will flash until new software is completely loaded.
- 8. Turn power off.
- 9. Remove token (206).
- 10. Reassemble access cover (204e) and screws (204f).

Replace Display Battery

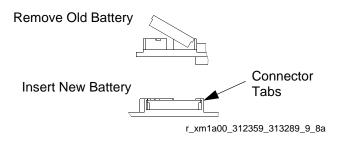


Do not replace battery when an explosive gas atmosphere may be present.

NOTICE

To avoid damaging circuit board, wear a grounding strap.

- Perform steps 1-4 under **Upgrade Software** section, page 25.
- 2. Use a flat head screwdriver to pry out old battery.



3. Replace with new battery. Ensure battery fits under connector tabs before snapping other end in place.

NOTE:

Use only Panasonic CR2032 batteries for replacement.

Reassemble access cover (204e) and screws (204f).

Replace Display

NOTE: Order kit 257484 for replacement.

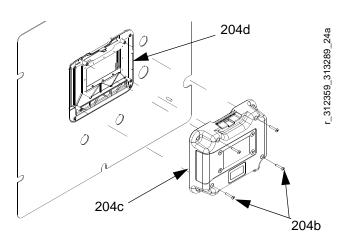
NOTICE

To avoid damaging circuit board, wear a grounding strap.

- 1. Remove shroud. See Remove Shroud.
- Disconnect power.
- 3. Remove four nuts (4); leave two nuts on left side of panel tight. Open front panel of control box (11).
- 4. Disconnect CAN cable from display module.
- 5. Remove four screws (204b) from rear display panel (204c) while holding front display panel (204d) in place.

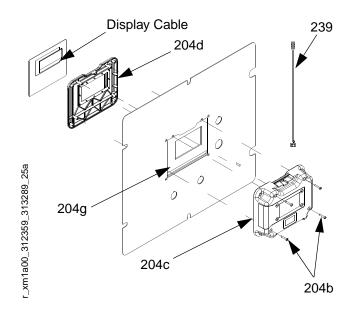
NOTE:

To ease removal process use clear tape to hold front display panel (204d) in place.



6. Remove rear display panel (204c) and disconnect display cable and key switch cable (239) from circuit board.

7. Remove front display panel (204d) and gasket (204g).



- 8. Discard old display assembly.
- 9. Place new front display panel (204d) and gasket (204g) on front panel of control box (11).

NOTE:

To ease installation process use clear tape to hold front display panel in place.

- Carefully connect display cables and key switch cable to new circuit board.
- Install new rear display panel (204c) and secure with four screws (204b). Ensure key switch cable protrudes from opening in top of display module.
- Install access cover and screws. Apply warning label to access cover.
- 13. Reconnect CAN cable to display module.
- 14. Reconnect power.
- 15. Load software. See Upgrade Software, 25.
- 16. Replace shroud.
- 17. Configure system settings as they were set on old display. See XM Plural-Component Operation manual 312359 for instructions.

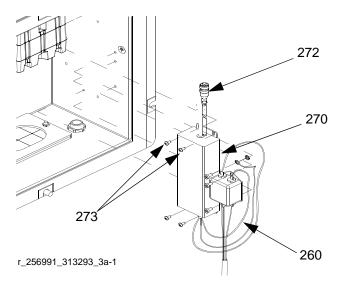
Replace Front Panel

See Replace Display, page 26, for instructions

Wall Power Supply Control Components

Replace Power Supply Module

- Remove shroud. See Remove Shroud.
- 2. Disconnect main power.
- 3. Remove four nuts (4); leave two nuts on left side of panel tight. Open front panel of control box (11).
- Disconnect incoming power cable connections to power supply module and ground lead (260) from control box.
- 5. Disconnect power supply cable (272) from FCM (218).
- 6. Remove four screws (273) holding power supply module (270) bracket in place.



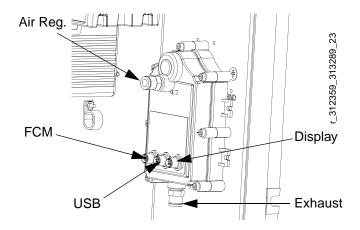
- 7. Remove and replace power supply module (270).
- 8. Follow steps in reverse order to install new power supply module.

Alternator Power Supply Control Components

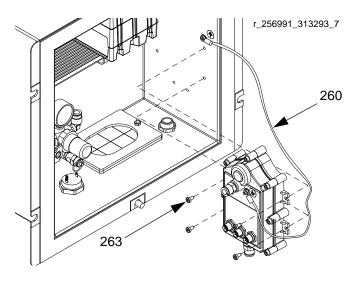
Alternator Module Repair

Alternator Repair Kit 257147 is available to replace turbine bearings.

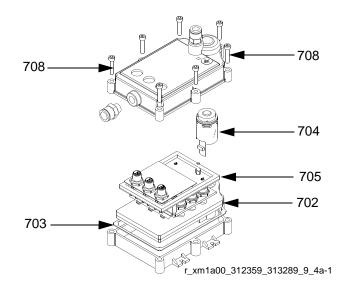
- Remove shroud. See Remove Shroud.
- 2. Disconnect main power.
- 3. Remove four nuts (4); leave two nuts on left side of panel tight. Open front panel of control box (11).
- 4. Disconnect output power cable connections from alternator module and ground lead from control box.
- 5. Disconnect power supply cables from FCM, USB, and display.



- 6. Disconnect air regulator air line and exhaust air line.
- 7. Remove four screws (263) from mounting to remove alternator from control box.



- 8. Remove seven screws (708) to separate alternator housings.
- Replace turbine (704) if necessary. Lightly lubricate turbine o-ring to ease alternator housing reassembly.



- 10. Replace gasket (702) and/or circuit board assembly (705) if damaged.
- Follow steps in reverse order to reassemble alternator regulator assembly and to reconnect power cables and air lines. Refer to Electrical Schematics, page 37.

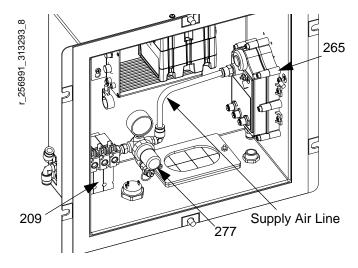
NOTE:

Avoid causing a kink in the flexible circuit board when you reconnect the circuit board assembly (705).

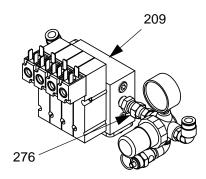
 Start machine. Check control voltage on Alarm information screen. Voltage should be between 10-14 Vdc.

Replace Alternator Regulator

- 1. Remove shroud. See Remove Shroud, page 22
- 2. Disconnect main power.
- 3. Remove four nuts (4); leave two nuts on left side of panel tight. Open front panel of control box (11).
- 4. Disconnect supply air line from alternator assembly (265).



5. Loosen air regulator swivel fitting (276) and remove from solenoid module (209).



- Repair or replace alternator regulator parts as necessary. See Alternator Assembly, page 62, for repair parts. Replace air regulator swivel fitting (276).
- 7. Set regulator to 18 +/- 1 psi (12.6 +/- 10 kPa, 1.26 +/- 0.07 bar).
- 8. Start machine. Check voltage on the alarm information screen. Voltage should be between 10-14 volts.

Air Controls

Remove Air Control Assembly

- 1. Remove shroud. See Remove Shroud, page 22.
- 2. Disconnect air motor air lines and system air line.
- Remove four nuts (7) from front of air control bracket (319).
- 4. Pull out assembly.
- Follow steps in reverse order to reinstall air control assembly.

Replace Solvent Pump Ball Valve

- 1. Remove shroud. See Remove Shroud, page 22.
- 2. Disconnect air motor air lines and system air line.
- Remove four nuts (7) from front of air control bracket (319).
- 4. Pull out assembly.
- 5. Remove two nuts (330) from front of air control bracket (319).
- 6. Disconnect air line (332) running to ball valve assembly (326).
- Replace with new ball valve assembly. See Air Controls Module (255761) Parts, page 64.
- 8. Follow steps in reverse order to reassemble.

Replace Solvent Air Regulator

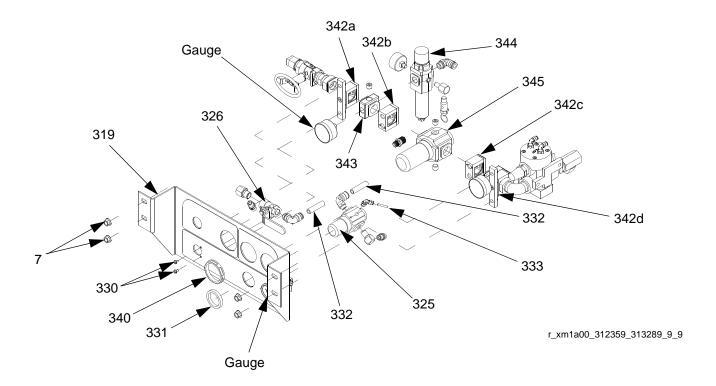
- 1. Remove shroud. See Remove Shroud, page 22.
- 2. Disconnect air motor air lines and system air line.
- 3. Remove four nuts (7) from front of air control bracket (319).
- 4. Pull out assembly.
- 5. Remove regulator nut (331), and disconnect air lines (332, 333) running to regulator (325).
- Remove regulator assembly and replace with new.See Air Controls Module (255761) Parts, page 64.
- 7. Follow steps in reverse order to reassemble.

Replace System Air Regulator

- 1. Remove shroud. See Remove Shroud, page 22.
- 2. Disconnect air motor air lines and system air line.
- 3. Remove four nuts (7) from front of air control bracket (319).
- 4. Pull out assembly.
- 5. Remove regulator nut (340) and disconnect system air line.
- 6. Remove screws from quick clamps and open clamps (342b, 342c) at hinge.
- Remove regulator assembly (345) and replace with new. See Air Controls Module (255761) Parts, page 64.
- 8. Follow steps in reverse order to reassemble.

Replace Solenoid Inlet Air Regulator

- 1. Remove shroud. See Remove Shroud, page 22.
- Disconnect air motor air lines and system air line.
- 3. Remove four nuts (7) from front of air control bracket (319).
- 4. Pull out assembly.
- 5. Disconnect air line.
- 6. Remove gauge from block (343).
- 7. Remove screws from quick clamps (342a, 342b) holding air regulator assembly (344) in place.
- 8. Open clamps (342a, 342b) at hinge and pull apart from block (343).
- Remove regulator assembly (344) and replace with new. See Air Controls Module (255761) Parts, page 64.
- 10. Follow steps in reverse order to reassemble.
- 11. Set new air pressure regulator to 80-85 psi.(0.55-0.58 MPa, 5.5-5.8 bar).

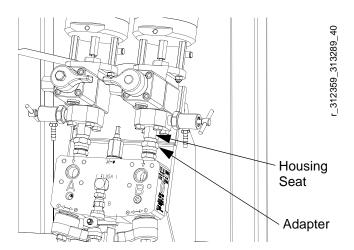


Fluid Control Assembly

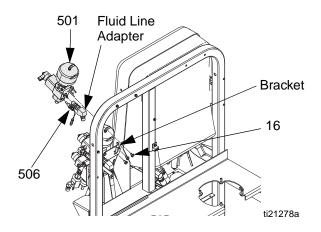


Dosing Valve Assembly

- 1. Follow Pressure Relief Procedure, page 12.
- 2. Disconnect all fluid lines from dosing valve assembly (8).
- 3. Remove three bolts (16) on back of each dosing valve (501) from bracket.
- 4. Unscrew dosing valve housing seats from adapters on mix manifold.



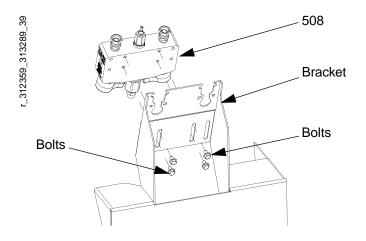
5. Disconnect RTD (506) from cord grip. Disconnect pressure sensor (507) and fluid line adapter from each dosing valve (501).



- 6. Remove dosing valves. See manual 313342 for dosing valve service and repair instructions.
- 7. Follow steps in reverse order to reassemble dosing valve assembly.

Mix Manifold Assembly

- 1. Follow Pressure Relief Procedure, page 12.
- Disconnect fluid line and solvent lines from mix manifold assembly.
- Loosen four bolts securing mix manifold (508) to bracket.

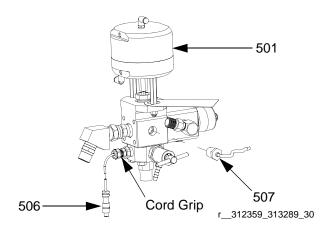


- 4. Unscrew dosing valve housing seats from adapters on mix manifold.
- 5. Remove four bolts securing mix manifold (508) to bracket.
- Remove mix manifold assembly (508) from bracket.
 See manual 312749 for mix manifold service and repair instructions.
- 7. Follow steps in reverse order to reassemble mix manifold assembly.

Sensors

Replace Fluid Pressure Sensor

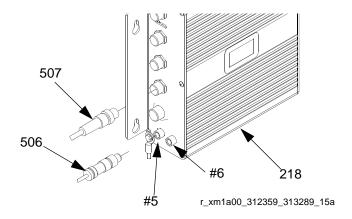
- 1. Close main air shutoff valve on air supply line and on system.
- 2. Relieve fluid pressure. See **Pressure Relief Procedure**, page 12.
- 3. Open control box cover. See **User Interface/Control Box**, page 22.
- 4. Disconnect pressure sensor (507) from FCM (218).
- 5. Disconnect fluid pressure sensor (507) from dosing valve (501).



6. Replace with new fluid pressure sensor, and reconnect pressure sensor to FCM.

Temperature (RTD) Sensor

- 1. Close main air shutoff valve on air supply line and on system.
- Relieve fluid pressure. See Pressure Relief Procedure, page 12.
- Open control box cover. See User Interface/Control Box, page 22.
- 4. Disconnect temperature sensors (506) from FCM (218).



- 5. Remove RTD (506) cable from cord grip.
- 6. Replace with new temperature (RTD) sensor.
- 7. Reassemble RTD cable (506) and cord grip.
- 8. Connect temperature (RTD) sensor to FCM connector #5. Do not use connect #6.
- 9. Close control box cover.

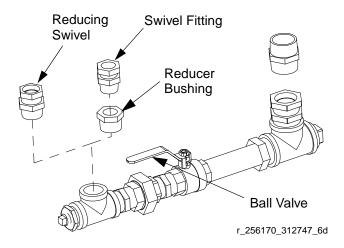
Pump Assembly



Prior to servicing the pump assembly you must first remove either the entire pump assembly or the displacement pump and air motor individually.

Remove Pump Assembly

- 1. Follow Pressure Relief Procedure, page 12.
- 2. Close ball valve on hopper outlet assembly.
- 3. Disconnect displacement pump from fluid inlet assembly.
 - 50:1 Pump: disconnect reducer bushing fitting from swivel fitting on fluid inlet assembly.
 - 70:1 Pump: disconnect reducing swivel from fluid inlet assembly.



NOTE:

Refer to the Double Wall Hopper manual 312747 to service or repair the fluid inlet assembly.

- 4. Disconnect air motor.
 - a. Disconnect sensor cable, air line, and ground wire from air motor.
 - Remove mounting screws (4) and washers (3) holding air motor (2) to mounting bracket. See illustration in Remove Air Motor section.

5. Remove pump assembly by lift ring on air motor.



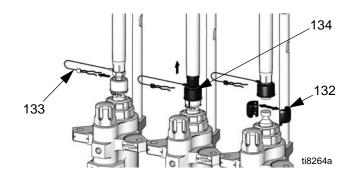
Do not lift pump assembly by the lift ring when the total weight of the pump assembly exceeds 550 lb (250 kg).

- Refer to Xtreme Displacement Pump manual 311762 to service or repair the displacement pump. Refer to NXT Air Motor manual 311238 to service or repair the air motor.
- 7. Follow steps in reverse order to reinstall pump assembly.

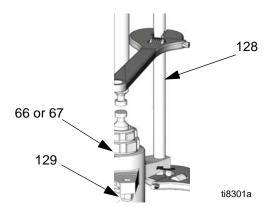
Remove Displacement Pump

Follow these instructions for removing only the displacement pump; the air motor will remain installed.

- 1. Follow **Pressure Relief Procedure**, page 12.
- Disconnect displacement pump from fluid inlet assembly. See steps 2 and 3 under Remove Pump Assembly, page 34.
- 3. Remove clip (133), and slide coupling cover (134) up to remove coupling (132).



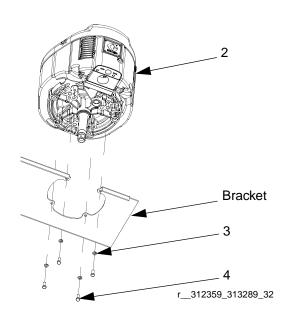
 Use a wrench to hold the tie rod flats to keep the rods from turning. Unscrew the nuts (129) from the tie rods (128) and carefully remove the displacement pump (66 or 67).



- 5. Refer to the Xtreme Displacement Pump manual 311762 to service or repair the displacement pump.
- Follow steps in reverse order to reinstall displacement pump.

Remove Air Motor

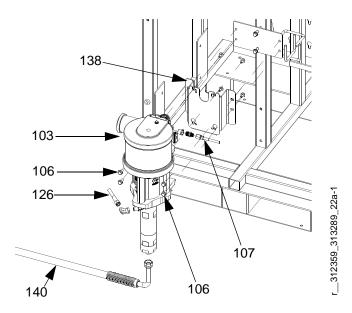
- 1. Follow Pressure Relief Procedure, page 12.
- 2. Disconnect displacement pump from air motor. See steps 2 and 3 under **Remove Displacement Pump**, page 34.
- 3. Disconnect sensor cable, air line, and ground wire from air motor.
- 4. Remove mounting screws (4) and washers (3) holding air motor (2) to mounting bracket.



- 5. Refer to NXT Air Motor manual 311238 to service or repair the air motor.
- 6. Follow steps in reverse order to reinstall air motor.

Solvent Pump

- 1. Follow Pressure Relief Procedure, page 12.
- 2. Disconnect fluid line (140) and air lines (107, 126) from solvent pump.
- 3. Remove four screws (106) that attach solvent pump (103) to bracket (138) and remove solvent pump.



- 4. Refer to Merkur Pump Assembly manual 312794 to service or repair solvent pump.
- 5. Follow steps in reverse order to reinstall solvent pump.

Fluid Heaters

NOTE:

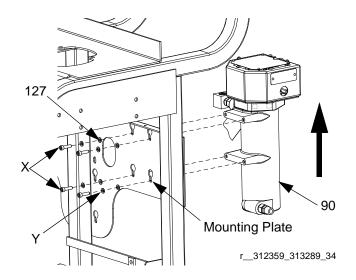
Wiring for explosion-proof heaters (245863) is not provided. See Viscon HP heater manual 309524 for wiring, repair, and parts information for explosion-proof heaters.

Service and Repair

- 1. Follow Pressure Relief Procedure, page 12.
- Disconnect fluid lines and electrical wiring from fluid heater.
- 3. Refer to Viscon HP heater manual 309524 to service or repair heater.
- 4. Reconnect fluid lines and electrical wiring.

Replace

- 1. Follow steps 1 through 2 above.
- 2. Loosen four mounting screws (X), lock washers (Y), and plain washers (127) on back of heater (90). Slide heater up and remove from mounting plate.

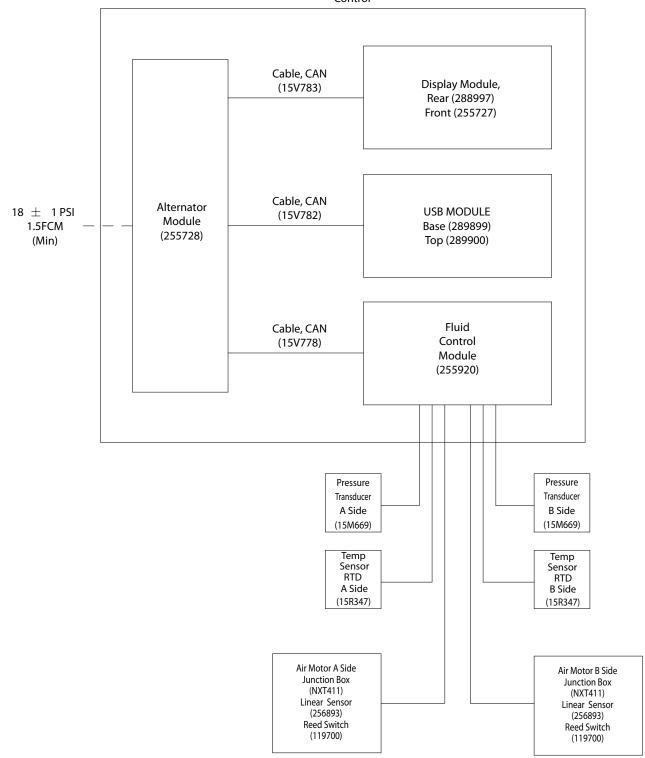


3. Replace heater. Follow steps in reverse order to install new heater.

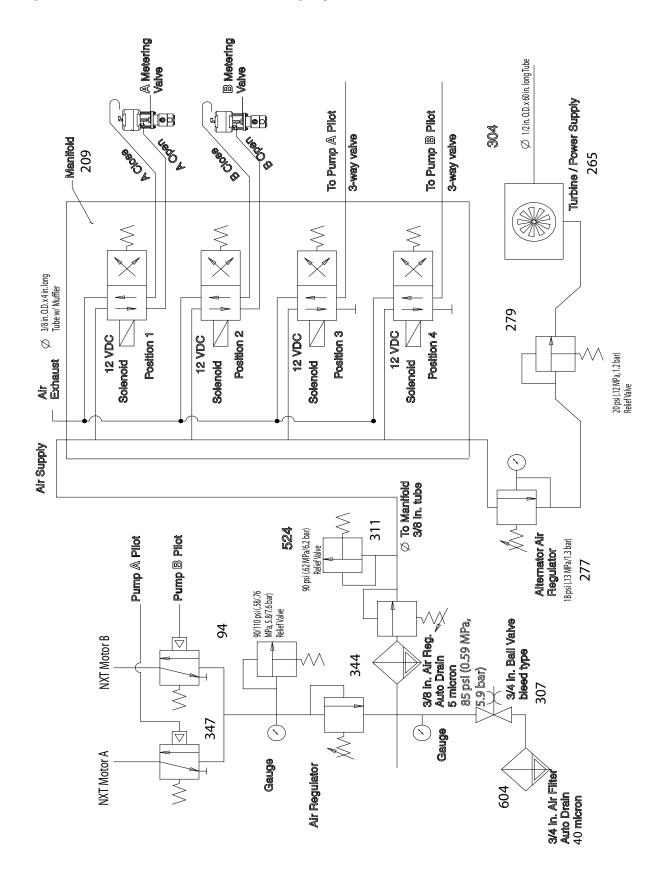
Electrical Schematics

Simplified Electrical Schematic, XM Sprayer with Alternator

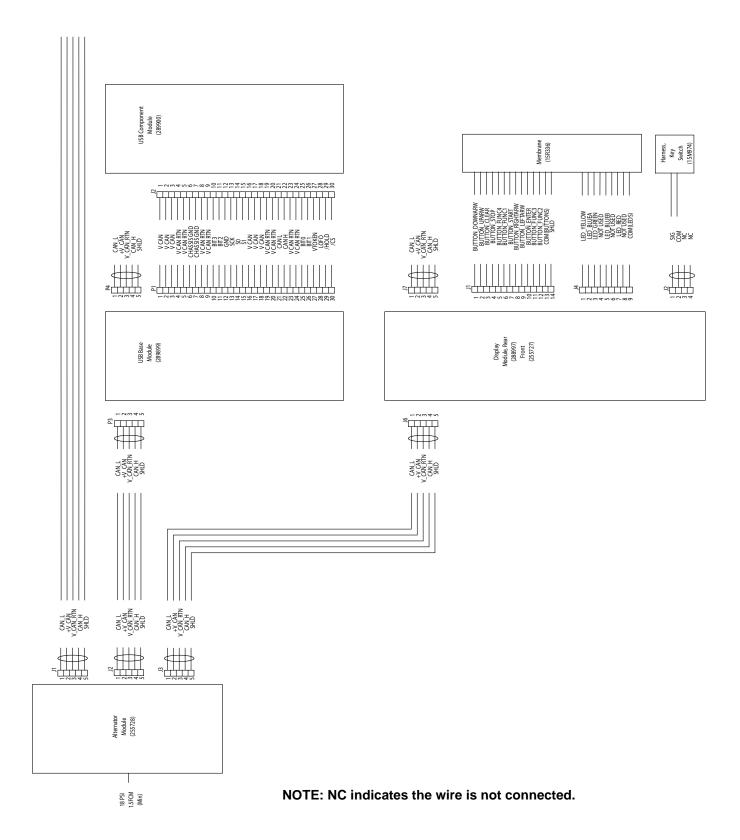
XM PLURAL COMPONENT SPRAYER WITH ALTERNATOR
Control



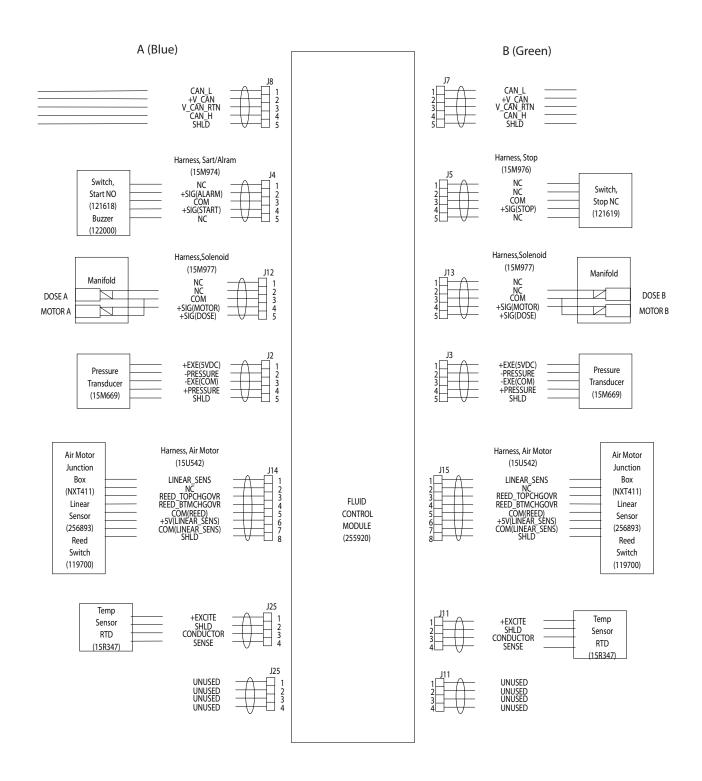
Simplified Pneumatic Schematic, XM Sprayer with Alternator



Detailed Electrical Schematic, XM Sprayer with Alternator (page 1)

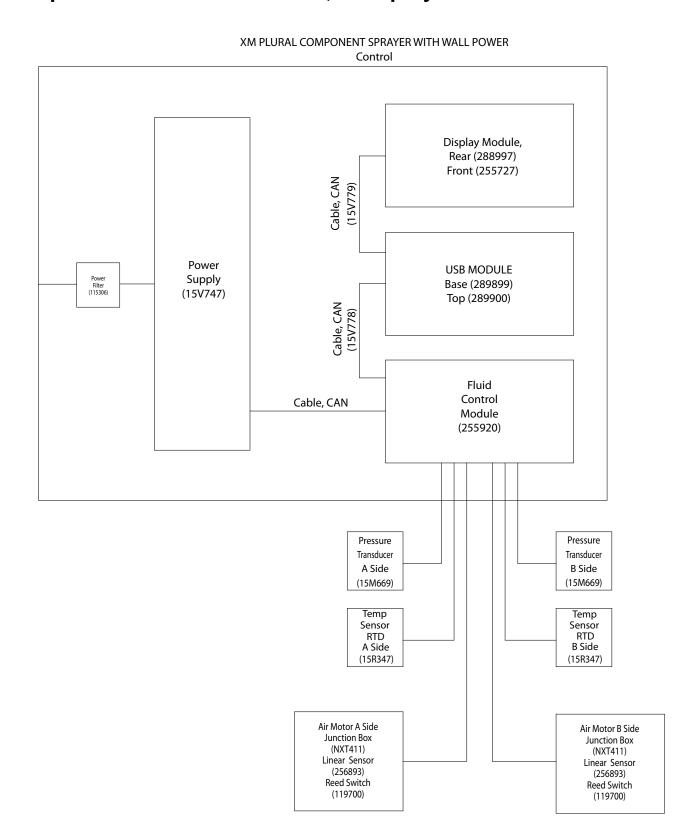


Detailed Electrical Schematic, XM Sprayer with Alternator (page 2)

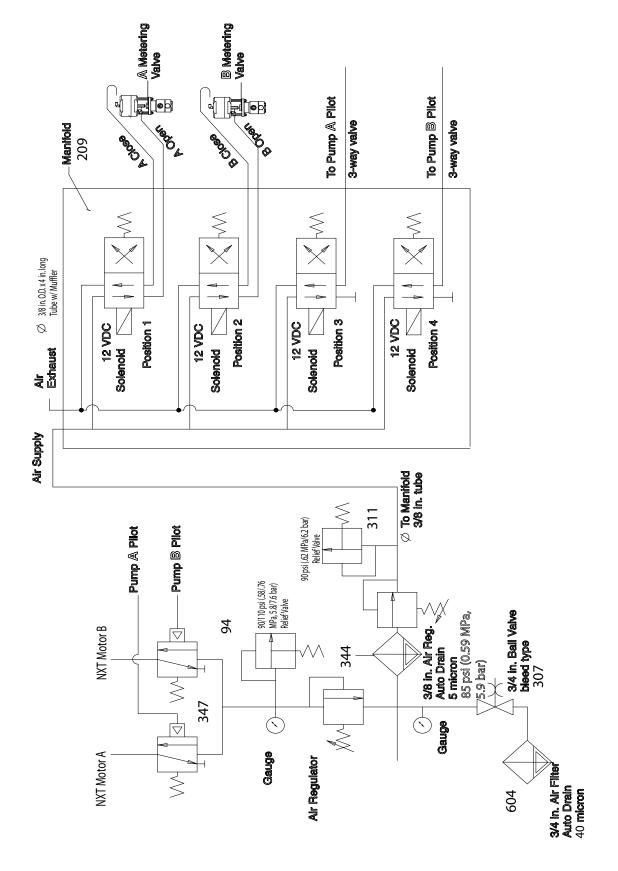


NOTE: NC indicates the wire is not connected.

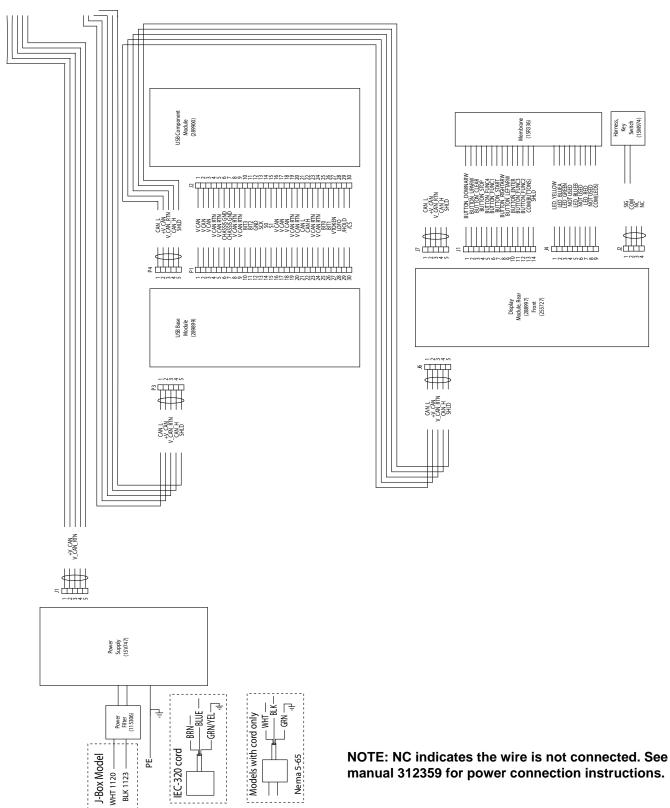
Simplified Electrical Schematic, XM Sprayer with Wall Power



Simplified Pneumatic Schematic, XM Sprayer with Wall Power

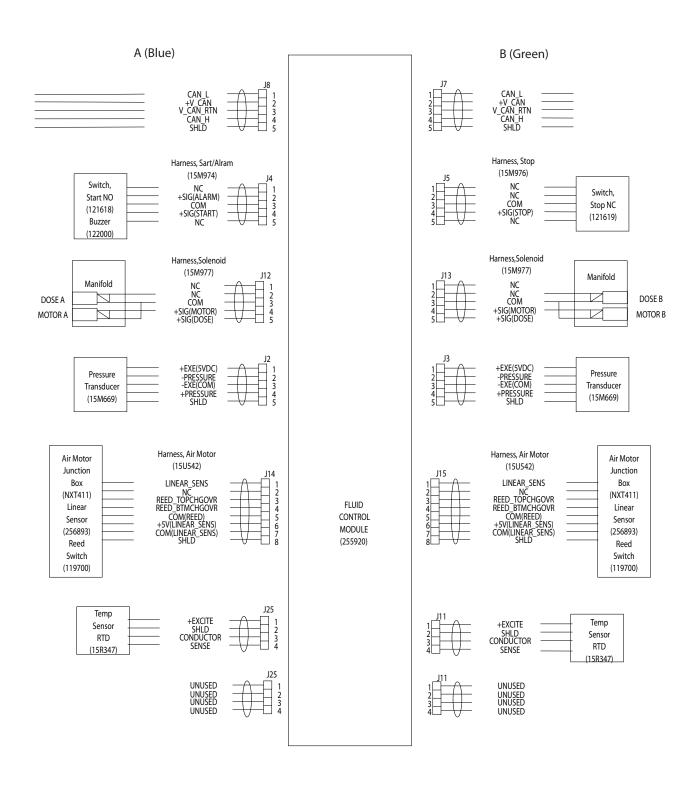


Detailed Electrical Schematic, XM Sprayer with Wall Power (page 1)



manual 312359 for power connection instructions.

Detailed Electrical Schematic, XM Sprayer with Wall Power (page 2)

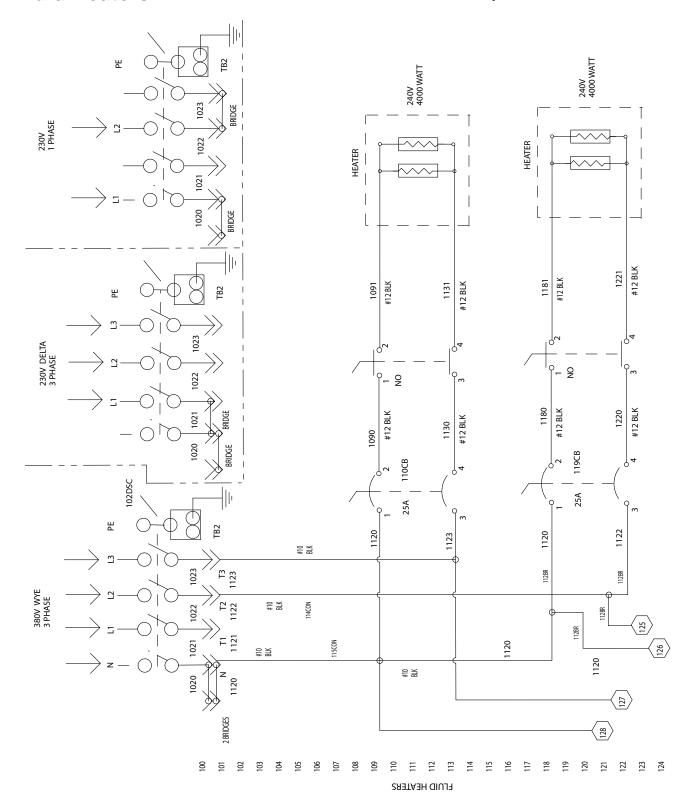


NOTE: NC indicates the wire is not connected.

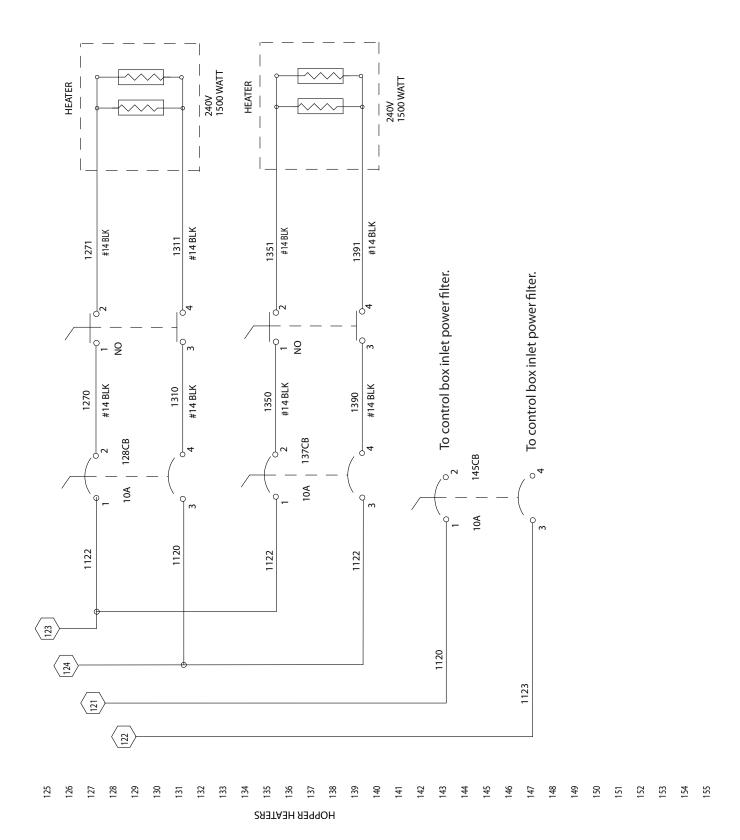
Junction Box Wiring Schematics

Fluid Heaters

NOTE: See manual 312359 for power connection instructions.



Hopper Heaters

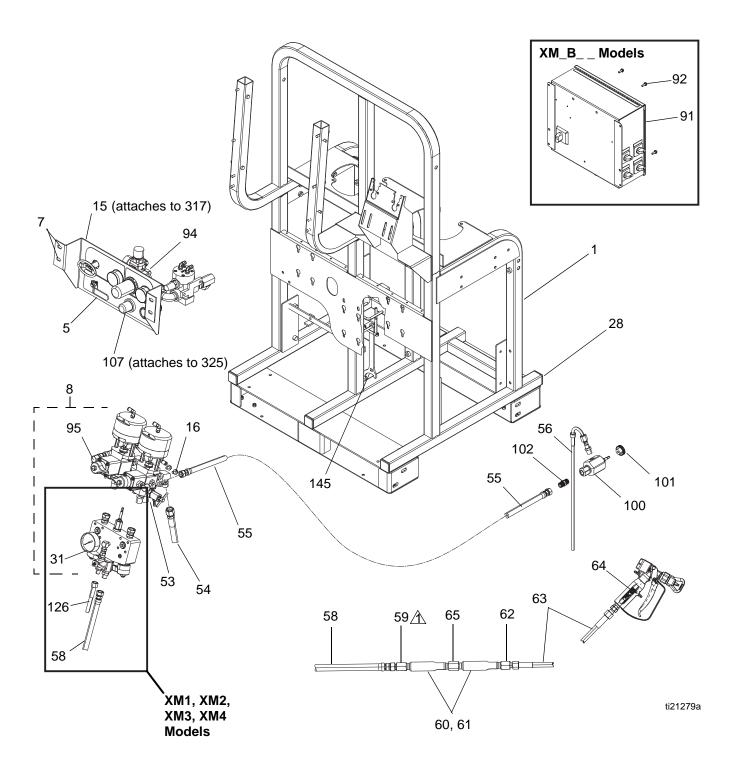


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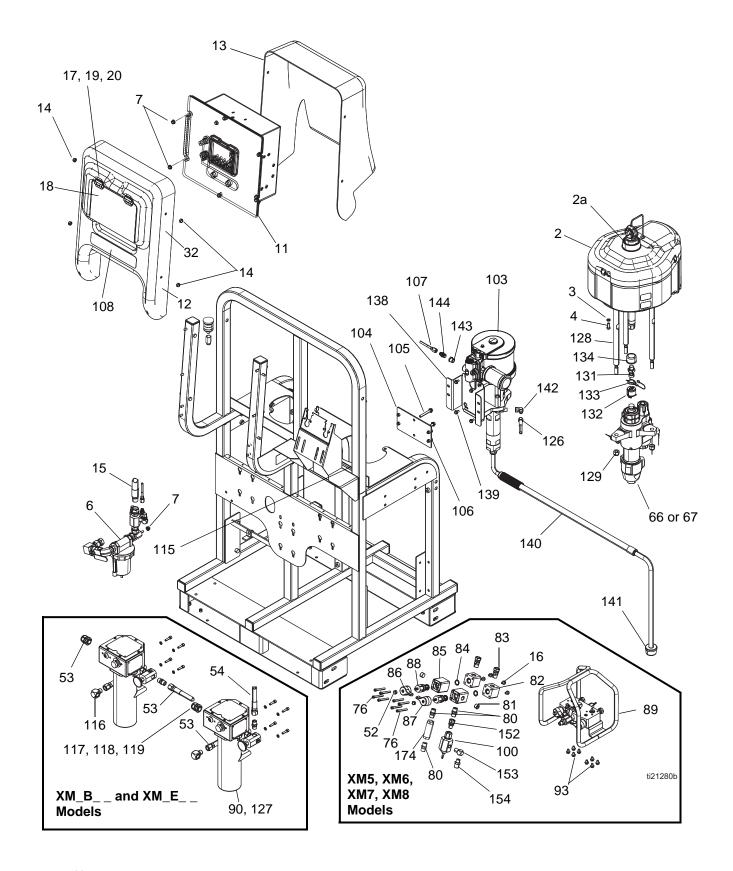
Parts

XM Plural-Component Sprayers

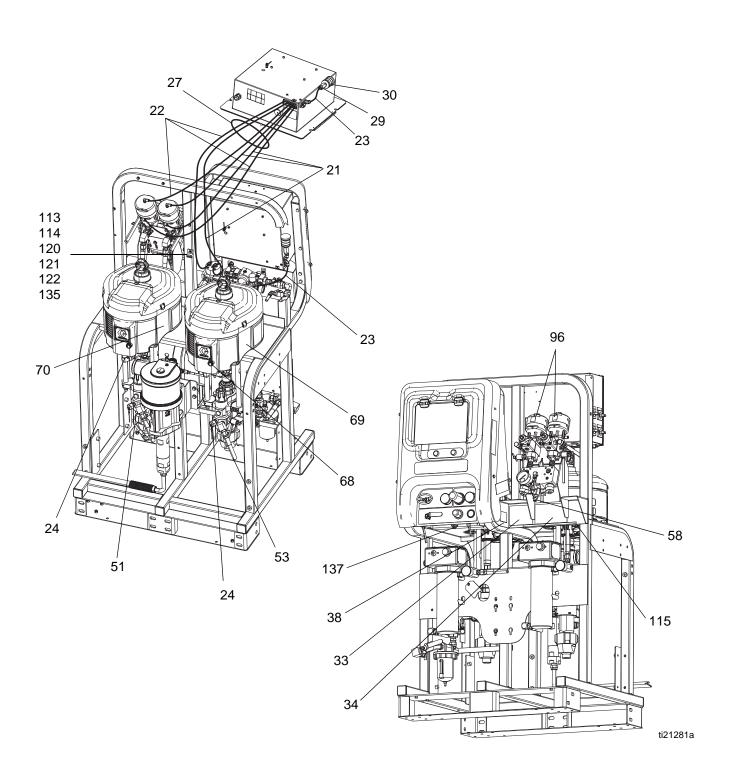
Do not use swivel union end on mixer inlet. Use female pipe thread.



XM Plural-Component Sprayers



XM Plural-Component Sprayers



| Comi | mon Pai | rts | | | | | Qty |
|--------------------|---------|--|-----|--------------------|------------------|---------------------------------------|-----------------------|
| | | | 04. | Ref. | Part | Description | ٠. |
| Ref. | Part | Description | Qty | 59 | 15B729 | - | 1 |
| 1 | | FRAME | 1 | | | npt | |
| 2 | 257055 | MOTOR, 6500, de-icing; see | 2 | 60 | 262478 | | 2 |
| 2 | 237 033 | manual 311238 | 2 | 61≉ | 248927 | | 1 |
| 2a | 256893 | HOUSING, assy., linear sensor; | 2 | 62 | 150287 | COUPLING; 1/4-18 npsm x 3/8-18 | 1 |
| Za | 230033 | see manual 311328 | 2 | | | npt | |
| 2b≉ | NIXT102 | CONTROL, assy, de-ice | 2 | 63 | H72510 | HOSE, coupled; 1/4-18 npsm; | 1 |
| 3 | | WASHER, lock | 8 | | | 10 ft | |
| 4 | | SCREW, cap, hex hd | 8 | 64 | XTR704 | | 1 |
| 5 | 255761 | AIR CONTROLS, module, upper; | 1 | 65 | 162024 | COUPLING; 3/8-18 npt x 3/8-18 | 1 |
| Ū | | see Air Controls Module | - | | | npt | |
| | | (255761) Parts, page 64 | | 75 ≉ | 206995 | TSL; 1 qt. | 1 |
| 6 | 255762 | MANIFOLD, inlet, air distribution; | 1 | 95 | 15U655 | • | 1 |
| Ū | | see Air Inlet Manifold (255762) | - | 96 101 √ | 114593 | LABEL, identification KNOB | 1 2 |
| | | Parts, page 67 | | 101 | 257463 | | 1 |
| 7 | 112958 | NUT, hex, flanged | 9 | 103 | 237403 | manual 312794 | ı |
| 8 | | FLUID CONTROL, assy; see | 1 | 104 | 256169 | | 1 |
| | | Fluid Control Assembly Parts, | | 104 | 230109 | SCREW, hex hd, flanged | 2 |
| | | page 66 | | 106 | 112395 | SCREW, cap, flanged | 4 |
| 11 | 255771 | BOX, control; see Control Box | 1 | 107 | 248208 | | 1 |
| | | (255771) Parts, page 60 | | 113 | 117666 | | 1 |
| 12 | 256177 | SHROUD, front | 1 | 114 | 100028 | | 1 |
| 13 | 16P815 | , | 1 | 115 | 115901 | • | |
| 14 | 117623 | NUT, cap (3/8-16) | 4 | 120 | | WIRE, ground assy. | 2 1 |
| 15 | 240900 | HOSE, coupled, 30 in. | 3 | 121 | | WIRE, electric; copper | |
| 16 | 111801 | SCREW, cap, hex hd | 10 | 122 | 109025 | RING, terminal | 1 |
| 17 | 121471 | HINGE, friction, positioning | 2 | 124▲ | | LABEL, pressure control | 2 |
| 18 | 15T568 | | 1 | | 162449 | | 2 |
| 19 | 15T567 | | 4 | 128 | 257150 | | 6 |
| 20 | 112380 | SCREW, mach, pan head | 8 | 129 | 101712 | | 6 |
| 21 | 054172 | TUBE, nylon, 1/4 OD, black; 10 ft | | 131 | | ROD, adapter | 2 |
| 22 23 | | TUBE, nylon, 1/4 OD, natural; 7 ft TUBE, nylon, round; 1.3 ft | | 132 133 | 244819 244820 | | 6 2 2 2 2 |
| 23 24 | 160327 | | 2 | 134 | 197340 | | 2 |
| 27 | 114601 | CONDUIT, flexible, non-metallic; | 2 | 135 | 113796 | SCREW, flanged, hex head | 1 |
| 21 | 114001 | 3 ft | | 136* | 114958 | TIE, strap | 10 |
| 28 | 115313 | PLUG, tube | 8 | 137* | 054760 | TUBE, polyurethane, black; 3.5 ft. | - |
| 29 | 121688 | CONNECTOR; 3/8 npt x 3/8 | 1 | 138 | 256561 | PLATE, mounting, solvent pump | 1 |
| | | tube ptc | - | 139 | 111799 | SCREW, cap, hex head | 4 |
| 30 | 108636 | MUFFLER | 1 | 140 | 256421 | HOSE, siphon, assy. | 1 |
| 31 | 114434 | | 1 | 141 | 181073 | STRAINER, inlet | 1 |
| 32▲ | | LABEL, warning | 2 | 142 | 116935 | | 1 |
| 33▲ | | LABEL, codes, alerts | 1 | 143 | 100081 | BUSHING, pipe | 1 |
| | 15U926 | English | | 144 | 157350 | · · · · · · · · · · · · · · · · · · · | 1 |
| | | All languages | | 145 | | TOOL, wrench, Xtreme | 1 |
| 34▲ | | LABEL, warning | 1 | 146✓ | 159239 | | 1 |
| 35≉ | | LABEL, identification | 1 | 147* | | FLASH DRIVE, USB; 4 GB | 1 |
| 38 | | LABEL, identification | 1 | 156≉ | 120780 | WRENCH, restrictor | 1 |
| 51 52 | | ELBOW; 60 deg. | 2 | ▲ Do | nlacomon | t Danger and Warning labels toss | and |
| 53 54 | | HOSE, coupled: 1/2-14 npsm; 3 ft | | | | t Danger and Warning labels, tags, a | ariu |
| 54 55 √ | | HOSE, coupled; 1/2-14 npsm; 2 ft HOSE, coupled; 3/8-18 npsm; 6 ft | | car | us are ava | ailable at no cost. | |
| 56 √ | | TUBE, recirculation | 2 | ∗ Note | t shown. | | |
| 50 ₽ 57≉ | | | | / Al- | | ad | |
| 58 | | HOSE, coupled; 3/8-18 npsm; | 1 | ✓ IVO | t assemble | ₽u. | |
| | | 25 ft | - | | | | |
| | | | | | | | |

Parts Varying by Model

XM1___ and XM2___ Models

| | | | | | XM- | 50 Plural | -Compo | nent Sp | rayer Mo | odels | | |
|------|--------|---|--------|--------|--------|-----------|--------|---------|----------|--------|--------|--------|
| Ref. | Part | Description | XM1A00 | XM1B00 | XM1C00 | XM1D00 | XM1E00 | XM2A00 | XM2B00 | XM2C00 | XM2D00 | XM2E00 |
| 52 | 117623 | NUT, cap | | | | | | | | | | |
| 66 | L250C4 | LOWER, A side; see manual 311762 | 1 | 1 | 1 | 1 | 1 | | | | | |
| | L250C3 | LOWER, A side (without filter); see manual 311762 | | | | | | 1 | 1 | 1 | 1 | 1 |
| 67 | L220C4 | LOWER, B side; see manual 311762 | 1 | 1 | 1 | 1 | 1 | | | | | |
| | L220C3 | LOWER, B side (without filter); see manual 311762 | | | | | | 1 | 1 | 1 | 1 | 1 |
| 69 | 15H652 | LABEL, motor, A side | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 70 | 15H654 | LABEL, motor, B side | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 76 | 121295 | SCREW, cap, socket head | | | | | | | | | | |
| 77 | | LABEL, system | 1 | 1 | 1 | | | 1 | 1 | 1 | | |
| | | | | | | 1 | 1 | | | | 1 | 1 |
| 80 | 158491 | NIPPLE; 1/2 npt | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 81 | 100361 | PLUG, pipe | | | | | | | | | | |
| 82 | 15R529 | BLOCK, fluid distribution | | | | | | | | | | |
| 83 | 156684 | UNION, adapter | | | | | | | | | | |
| 84 | 121139 | O-RING; PTFE | | | | | | | | | | |
| 85 | 15J594 | HOUSING, check valve | | | | | | | | | | |
| 86 | 15J916 | HANDLE, blue | | | | | | | | | | |
| 87 | 15R380 | HANDLE, green | | | | | | | | | | |
| 88 | 255747 | CARTRIDGE, valve | | | | | | | | | | |
| 89 | 24A034 | CARRIAGE, remote mix manifold | | | | | | | | | | |
| 90 | 245869 | HEATER, fluid | | 2 | 2 | | | | 2 | 2 | | |
| | 245863 | | | | | | 2 | | | | | 2 |
| 91 | | BOX, junction | | 1 | | | | | 1 | | | |
| 92 | 113796 | SCREW, flanged, hex head | 1 | 5 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 |
| 93 | 111801 | SCREW, cap, hex head | | | | | | | | | | |
| 94 | 113498 | VALVE, relief; 110 psi (0.76 MPa, 7.6 bar) | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 100✓ | 222200 | VALVE, restrictor | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 102✓ | 156849 | PIPE, nipple; 3/8 npt | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 108 | | LABEL, XM50 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | LABEL, XM70 | | | | | | | | | | |
| 112 | | CABLE, CAN, IS, display to USB; female B/female B | 1 | 1 | 1 | | | 1 | 1 | 1 | | |
| 116† | 158683 | ELBOW, 90 deg. | | 2 | 2 | | 2 | | 2 | 2 | | 2 |
| 117 | 15T967 | CABLE, heater | | 2 | 2 | | | | 2 | 2 | | |
| 118 | 116171 | BUSHING, strain relief | | 2 | 2 | | | | 2 | 2 | | |
| 119 | 122032 | NUT, wire | | 4 | 4 | | | | 4 | 4 | | |
| 126 | H42506 | HOSE, coupled, 4500 psi | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 127 | 100527 | WASHER | | 8 | 8 | | 8 | | 8 | 8 | | 8 |

XM1___ and XM2___ Models (continued)

| | | | | | XM-5 | 0 Plural | -Compo | nent Sp | rayer Mo | odels | | |
|------|--------|--|--------|--------|--------|----------|--------|---------|----------|--------|--------|--------|
| Ref. | Part | Description | XM1A00 | XM1B00 | XM1C00 | XM1D00 | XM1E00 | XM2A00 | XM2B00 | XM2C00 | XM2D00 | XM2E00 |
| 128* | 224458 | STRAINER, pump; 30 mesh (qty. of 2) | 1 | 1 | 1 | 1 | 1 | | | | | |
| 152 | 162505 | UNION, swivel; 3/8 male x 1/2 female npt | | | | | | | | | | |
| 153 | 155699 | ELBOW, street; 3/8-18 npt | | | | | | | | | | |
| 154 | 159239 | NIPPLE, pipe; 1/2 x 3/8 npt | | | | | | | | | | |
| 155 | 164672 | ADAPTER | | | | | | | | | | |

[†] Must purchase when installing fluid heaters on a non-heated sprayer.

- * Not shown.
- ✓ Not assembled.

Parts Varying by Model (continued)

XM3_ _ _ and XM4_ _ _ Models

| | | | XM Plural-Component Sprayer Models | | | | | | | | | |
|------|--------|---|------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Ref. | Part | Description | XM3A00 | XM3B00 | XM3C00 | XM3D00 | XM3E00 | XM4A00 | XM4B00 | XM4C00 | XM4D00 | XM4E00 |
| 52 | 117623 | NUT, cap | | | | | | | | | | |
| 66 | L180C4 | LOWER, A side; see manual 311762 | 1 | 1 | 1 | 1 | 1 | | | | | |
| | L180C3 | LOWER, A side (without filter); see manual 311762 | | | | | | 1 | 1 | 1 | 1 | 1 |
| 67 | L145C4 | LOWER, B side; see manual 311762 | 1 | 1 | 1 | 1 | 1 | | | | | |
| | L145C3 | LOWER, B side (without filter); see manual 311762 | | | | | | 1 | 1 | 1 | 1 | 1 |
| 69 | 15H107 | LABEL, motor, A side | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 70 | 15J692 | LABEL, motor, B side | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 76 | 121295 | SCREW, cap, socket head | | | | | | | | | | |
| 77 | | LABEL, system | 1 | 1 | 1 | | | 1 | 1 | 1 | | |
| | | | | | | 1 | 1 | | | | 1 | 1 |
| 80 | 158491 | NIPPLE; 1/2 npt | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 81 | 100361 | PLUG, pipe | | | | | | | | | | |
| 82 | 15R529 | BLOCK, fluid distribution | | | | | | | | | | |
| 83 | 156684 | UNION, adapter | | | | | | | | | | |
| 84 | 121139 | O-RING; PTFE | | | | | | | | | | |
| 85 | 15J594 | HOUSING, check valve | | | | | | | | | | |
| 86 | 15J916 | HANDLE, blue | | | | | | | | | | |
| 87 | 15R380 | HANDLE, green | | | | | | | | | | |
| 88 | 255747 | CARTRIDGE, valve | | | | | | | | | | |
| 89 | 24A034 | CARRIAGE, remote mix manifold | | | | | | | | | | |
| 90 | 245869 | HEATER, fluid | | 2 | 2 | | | | 2 | 2 | | |
| | 245863 | | | | | | 2 | | | | | 2 |
| 91 | 256540 | BOX, junction | | 1 | | | | | 1 | | | |
| 92 | 113796 | SCREW, flanged, hex head | 1 | 5 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 |
| 93 | 111801 | SCREW, cap, hex head | | | | | | | | | | |
| 94 | 116643 | VALVE, relief; 90 psi (0.63 MPa, 6.3 bar) | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | VALVE, restrictor | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 102✓ | 156849 | PIPE, nipple; 3/8 npt | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 108 | | LABEL, XM50 | | | | | | | | | | |
| | | LABEL, XM70 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 112 | | CABLE, CAN, IS, display to USB; female B/female B | 1 | 1 | 1 | | | 1 | 1 | 1 | | |
| 116† | 158683 | ELBOW, 90 deg. | | 2 | 2 | | 2 | | 2 | 2 | | 2 |
| 117 | 15T967 | CABLE, heater | | 2 | 2 | | | | 2 | 2 | | |
| 118 | 116171 | BUSHING, strain relief | | 2 | 2 | | | | 2 | 2 | | |
| 119 | 122032 | NUT, wire | | 4 | 4 | | | | 4 | 4 | | |
| 126 | H42506 | HOSE, coupled, 4500 psi | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 127 | 100527 | WASHER | | 8 | 8 | | 8 | | 8 | 8 | | 8 |

XM3___ and XM4___ Models (continued)

| | | | | XM Plural-Component Sprayer Models | | | | | | | | |
|------|--------|--|--------|------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Ref. | Part | Description | XM3A00 | XM3B00 | XM3C00 | XM3D00 | XM3E00 | XM4A00 | XM4B00 | XM4C00 | XM4D00 | XM4E00 |
| 128* | 224458 | STRAINER, pump; 30 mesh (qty. of 2) | 1 | 1 | 1 | 1 | 1 | | | | | |
| 152 | 162505 | UNION, swivel; 3/8 male x 1/2 female npt | | | | | | | | | | |
| 153 | 155699 | ELBOW, street; 3/8-18 npt | | | | | | | | | | |
| 154 | 159239 | NIPPLE, pipe; 1/2 x 3/8 npt | | | | | | | | | | |
| 155 | 164672 | ADAPTER | | | | | | | | | | |

[†] Must purchase when installing fluid heaters on a non-heated sprayer.

- * Not shown.
- ✓ Not assembled.

Parts Varying by Model (continued)

XM5_ _ and XM6_ _ Models

| XM Plural-Component Sprayer Models | | | | | | | | | | | | |
|------------------------------------|--------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Ref. | Part | Description | XM5A00 | XM5B00 | XM5C00 | XM5D00 | XM5E00 | XM6A00 | XM6B00 | XM6C00 | XM6D00 | XM6E00 |
| 52 | 117623 | NUT, cap | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 66 | L250C4 | LOWER, A side; see manual 311762 | 1 | 1 | 1 | 1 | 1 | | | | | |
| | L250C3 | | | | | | | 1 | 1 | 1 | 1 | 1 |
| 67 | L220C4 | LOWER, B side; see manual 311762 | 1 | 1 | 1 | 1 | 1 | | | | | |
| | L220C3 | | | | | | | 1 | 1 | 1 | 1 | 1 |
| 69 | 15H652 | LABEL, motor, A side | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 70 | 15H654 | LABEL, motor, B side | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 76 | 121295 | SCREW, cap, socket head | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 77 | | LABEL, system | 1 | 1 | 1 | | | 1 | 1 | 1 | | |
| 80 | 158491 | NIPPLE; 1/2 npt | 5 | 7 | 7 | 1 5 | 7 | 5 | 7 | 7 | 1 5 | 7 |
| 81 | | PLUG, pipe | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 82 | | BLOCK, fluid distribution | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 83 | | UNION, adapter | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 84 | | O-RING; PTFE | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 85 | | HOUSING, check valve | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 86 | | HANDLE, blue | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 87 | | · · | | | 1 | 1 | - | | 1 | 1 | 1 | 1 |
| 88 | | HANDLE, green CARTRIDGE, valve | 1 2 | 2 | | | 1 | 1 | 2 | 2 | 2 | 2 |
| 89 | | CARRIAGE, valve | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 |
| 69 | 24AU34 | manifold | ' | | ' | | ' | ' | ' | | ' | I |
| 90 | 245869 | HEATER, fluid | | 2 | 2 | | | | 2 | 2 | | |
| | 245863 | | | | | | 2 | | | | | 2 |
| 91 | 256540 | BOX, junction | | 1 | | | | | 1 | | | |
| 92 | 113796 | SCREW, flanged, hex head | 1 | 5 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 |
| 93 | 111801 | SCREW, cap, hex head | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 94 | 113498 | VALVE, relief; 110 psi (0.76 MPa, 7.6 bar) | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 100✓ | 222200 | VALVE, restrictor | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 102� | 156849 | PIPE, nipple; 3/8 npt | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 108 | | LABEL, XM50 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | LABEL, XM70 | | | | | | | | | | |
| 112 | | CABLE, CAN, IS, display to USB; female B/female B | 1 | 1 | 1 | | | 1 | 1 | 1 | | |
| 116† | 158683 | ELBOW, 90 deg. | | 2 | 2 | | 2 | | 2 | 2 | | 2 |
| 117 | | CABLE, heater | | 2 | 2 | | | | 2 | 2 | | |
| 118 | | BUSHING, strain relief | | 2 | 2 | | | | 2 | 2 | | |
| 119 | | NUT, wire | | 4 | 4 | | | | 4 | 4 | | |
| 126 | | HOSE, coupled, 4500 psi | | | | | | | | | | |
| 127 | | WASHER | | 8 | 8 | | 8 | | 8 | 8 | | 8 |

XM5___ and XM6___ Models

| | | | | XM Plural-Component Sprayer Models | | | | | | | | |
|------|--------|--|--------|------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Ref. | Part | Description | XM5A00 | XM5B00 | XM5C00 | XM5D00 | XM5E00 | XM6A00 | XM6B00 | XM6C00 | XM6D00 | XM6E00 |
| 128≉ | 224458 | STRAINER, pump; 30 mesh (qty. of 2) | 1 | 1 | 1 | 1 | 1 | | | | | |
| 152 | 162505 | UNION, swivel; 3/8 male x 1/2 female npt | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 153 | 155699 | ELBOW, street; 3/8-18 npt | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 154 | 159239 | NIPPLE, pipe; 1/2 x 3/8 npt | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 155 | 164672 | ADAPTER | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 174 | | COUPLING, 1/2 x 3.5 in. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

[†] Must purchase when installing fluid heaters on a non-heated sprayer.

- * Not shown.
- ✓ Not assembled.
- Assemble remote restrictor valve.

Parts Varying by Model (continued)

XM7_ _ and XM8_ _ Models

| | | | XM Plural-Component Sprayer Models | | | | | | | | | | | | |
|------|--------|---|------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|--|
| Ref. | Part | Description | XM7A00 | XM7B00 | XM7C00 | XM7D00 | XM7E00 | XM8A00 | XM8B00 | XM8C00 | XM8D00 | XM8E00 | | | |
| 52 | 117623 | NUT, cap | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | |
| 66 | L180C4 | LOWER, A side; see manual 311762 | 1 | 1 | 1 | 1 | 1 | | | | | | | | |
| | L180C3 | | | | | | | 1 | 1 | 1 | 1 | 1 | | | |
| 67 | L145C4 | LOWER, B side; see manual 311762 | 1 | 1 | 1 | 1 | 1 | | | | | | | | |
| | L145C3 | | | | | | | 1 | 1 | 1 | 1 | 1 | | | |
| 69 | 15H107 | LABEL, motor, A side | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 70 | 15J692 | LABEL, motor, B side | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 76 | 121295 | SCREW, cap, socket head | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | | | |
| 77 | | LABEL, system | 1 | 1 | 1 | | | 1 | 1 | 1 | | | | | |
| | | | | | | 1 | 1 | | | | 1 | 1 | | | |
| 80 | 158491 | NIPPLE; 1/2 npt | 5 | 7 | 7 | 5 | 7 | 5 | 7 | 7 | 5 | 7 | | | |
| 81 | 100361 | PLUG, pipe | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | |
| 82 | 15R529 | BLOCK, fluid distribution | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | |
| 83 | | UNION, adapter | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | |
| 84 | 121139 | O-RING; PTFE | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | |
| 85 | 15J594 | HOUSING, check valve | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | |
| 86 | 15J916 | HANDLE, blue | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 87 | 15R380 | HANDLE, green | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 88 | 255747 | CARTRIDGE, valve | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | |
| 89 | 24A034 | CARRIAGE, remote mix manifold | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 90 | 245869 | HEATER, fluid | | 2 | 2 | | | | 2 | 2 | | | | | |
| | 245863 | | | | | | 2 | | | | | 2 | | | |
| 91 | 256540 | BOX, junction | | 1 | | | | | 1 | | | | | | |
| 92 | 113796 | SCREW, flanged, hex head | 1 | 5 | 1 | 1 | 1 | 1 | 5 | 1 | 1 | 1 | | | |
| 93 | 111801 | SCREW, cap, hex head | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | | | |
| 94 | 116643 | VALVE, relief; 90 psi (0.63 MPa, 6.3 bar) | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 100✓ | 222200 | VALVE, restrictor | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | |
| 102� | 156849 | PIPE, nipple; 3/8 npt | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | |
| 108 | | LABEL, XM50 | | | | | | | | | | | | | |
| | | LABEL, XM70 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 112 | | CABLE, CAN, IS, display to USB; female B/female B | 1 | 1 | 1 | | | 1 | 1 | 1 | | | | | |
| 116† | 158683 | ELBOW, 90 deg. | | 2 | 2 | | 2 | | 2 | 2 | | 2 | | | |
| 117 | 15T967 | CABLE, heater | | 2 | 2 | | | | 2 | 2 | | | | | |
| 118 | 116171 | BUSHING, strain relief | | 2 | 2 | | | | 2 | 2 | | | | | |
| 119 | 122032 | NUT, wire | | 4 | 4 | | | | 4 | 4 | | | | | |
| 126 | H42506 | HOSE, coupled, 4500 psi | | | | | | | | | | | | | |
| 127 | 100527 | WASHER | | 8 | 8 | | 8 | | 8 | 8 | | 8 | | | |

XM7___ and XM8___ Models

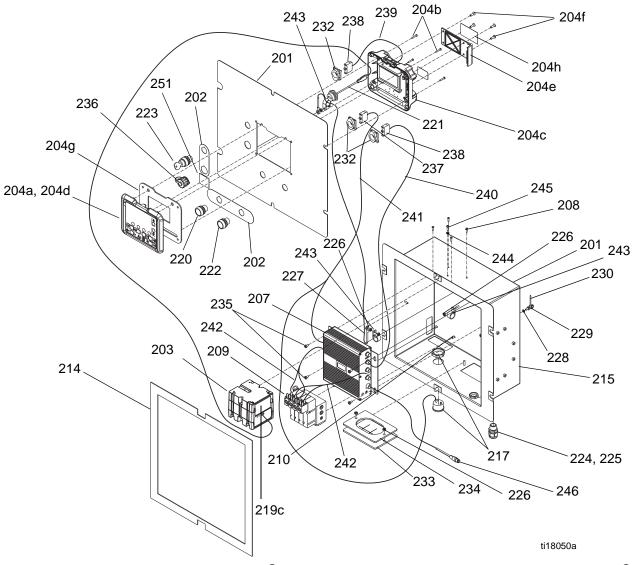
| | | | | XM Plural-Component Sprayer Models | | | | | | | | | |
|------|--------|--|--------|------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| Ref. | Part | Description | XM7A00 | XM7B00 | XM7C00 | XM7D00 | XM7E00 | XM8A00 | XM8B00 | XM8C00 | XM8D00 | XM8E00 | |
| 128* | 224458 | STRAINER, pump; 30 mesh (qty. of 2) | 1 | 1 | 1 | 1 | 1 | | | | | | |
| 152 | 162505 | UNION, swivel; 3/8 male x 1/2 female npt | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 153 | 155699 | ELBOW, street; 3/8-18 npt | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 154 | 159239 | NIPPLE, pipe; 1/2 x 3/8 npt | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 155 | 164672 | ADAPTER | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 174 | 16N367 | COUPLING, 1/2 x 3.5 in. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |

[†] Must purchase when installing fluid heaters on a non-heated sprayer.

- * Not shown.
- ✓ Not assembled.
- Assemble remote restrictor valve.

Control Box (255771) Parts

Air Power and Electric Power Versions



| | | | Qty | | | | Qty |
|-------|--------|----------------------------------|-----|---------------|--------|-------------------------------------|-----|
| Ref. | Part | Description | | Ref. | Part | Description | |
| 201 | | BOX, control | 1 | ▲ 204h | 15W958 | LABEL, warning, battery | 1 |
| 202 | | LABEL, control display | 1 | 205† | 262642 | Klt, replacement, display; includes | 1 |
| 203† | 262641 | KIT, replacement, USB; includes | 1 | | | 204 and 206 | |
| | | 219 and 206 | | 206 | 17E110 | TOKEN, software | 1 |
| 204● | | MODULE, display, kit | | 207† | 262643 | KIT, replacement, FCM; includes | 1 |
| 204a | 15M483 | SHIELD, membrane, display (qty. | 1 | | | 218 and 206 | |
| | | 10) | | 208 | | SCREW, pan head | 4 |
| 204b | | SCREW, pan head; #6 x 7/8 in. | 4 | 209 | 256555 | , | 1 |
| ●204c | 288997 | CASE, rear, display module, IS | 1 | 209a | 121636 | VALVE, solenoid, din connector | 4 |
| | | version | | 209b | 15A789 | GASKET, solenoid, outlet | 1 |
| 204d | 255727 | CASE, front, data module | 1 | 209c | 15A799 | , , , | 1 |
| | | COVER, access, low level display | 1 | 210 | 106084 | , | 2 |
| | | SCREW, socket, flat head | 4 | 214 | 15R379 | GASKET, box, control | 1 |
| 204g | 15R458 | GASKET, control, front panel | 1 | 215 | | LABEL | 1 |

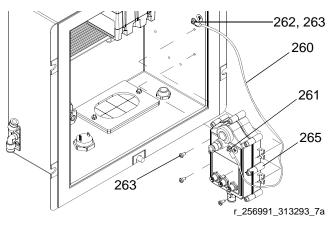
| | | | Qty |
|-------|---------|------------------------------------|-----|
| Ref. | Part | Description | • |
| 216* | 15B056 | LABEL, air motor/dosing valve | 1 |
| 217 | 122000 | ALARM, panel mount | 1 |
| 218● | 255920 | MODULE, fluid control | 1 |
| 219● | 257088 | MODULE, USB, assy. | |
| 219a | 289899 | BASE | 1 |
| ●219b | 289900 | MODULE, USB | 1 |
| 219c | 277674 | DOOR, module | 1 |
| 220 | 121618 | SWITCH, start, push button, | 1 |
| 221 | 15R324 | green HARNESS, USB, plug/bulkhead; | 1 |
| 221 | 1011024 | 32 in. | ı |
| 222 | 121619 | SWITCH, stop, push button, red | 1 |
| 223 | 121617 | SWITCH, 2 position, key, controls | 1 |
| 223a* | 123412 | KEY, replacement (pair) | |
| 224 | 117745 | BUSHING, strain relief | 1 |
| 225 | 117625 | NUT, locking | 1 |
| 226 | 113505 | NUT, keps, hex head | 6 |
| 227 | 15B090 | WIRE, grounding, door | 1 |
| 228 | 558685 | WASHER, lock, external | 1 |
| 229 | 15R343 | CLAMP, ground, electrical | 1 |
| 230 | 065213 | WIRE, copper, elect | 3 |
| 231* | 172953 | LABEL, designation | 2 |
| 232 | 120493 | LATCH, mounting | |
| 233 | 15H189 | BOOT, wire feed through | 1 |
| 234 | 15G816 | COVER, plate, wire | 1 |
| 235 | 110637 | SCREW, machine, pan head | 4 |
| 236 | 15R325 | COVER, dust, bulkhead | 1 |
| 237 | 120494 | receptacle BLOCK, switch, n.o. | 2 |
| 238 | 120495 | BLOCK, switch, n.c. | 1 |
| 239 | 15M974 | HARNESS, key switch | 1 |
| 240 | 15M975 | HARNESS, start/alarm | 1 |
| 241 | 15M976 | HARNESS, stop | 1 |
| 242 | 15M977 | HARNESS, solenoid | 2 |
| 243 | 121988 | RETAINER, routing, wire harness | 4 |
| 244 | 195875 | SCREW, machine, pan head | 1 |
| 245 | 102063 | WASHER, lock | 1 |
| 246 | 15U542 | CABLE, motor | 2 |
| 251▲ | | LABEL, warning, USB | 1 |
| | 15X214 | English | |
| | 15X393 | All languages | |
| 252* | 122829 | CONDUIT; 0.75 ft. | - |

▲ Replacement Danger and Warning labels, tags, and cards are available at no cost.

- * Not shown.
- Base electronic components do not have XM-specific software installed. Therefore, use software upgrade token (206) to install software before use.
- † Includes software token (206) and instruction sheet.

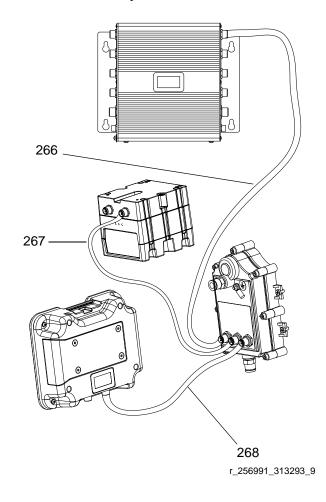
Control Box Power Supply Options

Alternator Assembly

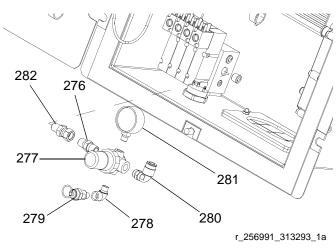


| | | | Qty |
|------|--------|----------------------------------|-----|
| Ref. | Part | Description | |
| 260 | 15B090 | WIRE, grounding, door | 1 |
| 261 | 100284 | NUT, hex | 1 |
| 262 | 102063 | WASHER, lock; carbon steel | 1 |
| 263 | 110637 | SCREW, machine pan head | 5 |
| 264* | C12508 | TUBING, round; nylon; 5.0 ft | |
| 265 | 255728 | ALTERNATOR, module; see page | 1 |
| | | 68 | |
| 266 | 15V778 | CABLE, CAN, IS, female B/female | 1 |
| | | B; 20 in. | |
| 267 | 15V782 | CABLE, CAN, IS, male B/female B; | 1 |
| | | 20 in. | |
| 268 | 15V783 | CABLE, CAN, IS, female A/male B; | 1 |
| | | 39 in. | |

Alternator Assembly Cable Connections

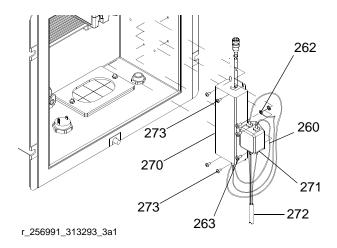


Air Regulator Assembly

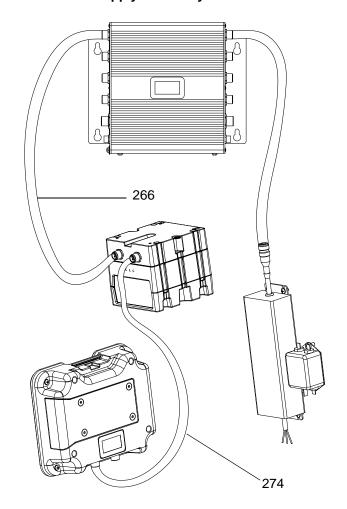


| | | | Qty |
|------|--------|-------------------------------------|-----|
| Ref. | Part | Description | |
| 276 | 156971 | NIPPLE, short; 2 x 1/4-18 npt | 1 |
| 277 | 115243 | REGULATOR, air; 1/4 npt | 1 |
| 278 | 112307 | ELBOW, union; 90 deg.; 1/8 npt(f) x | 1 |
| | | 1/8 npt(m); carbon steel | |
| 279 | 15W017 | VALVE, safety, regulator | 1 |
| 280 | 115841 | ELBOW, swivel, male; 1/4 npt | 1 |
| 281 | 104655 | GAUGE, air pressure | 1 |
| 282 | 156823 | SWIVEL, union; 2 x 1/4-18 npt | 1 |
| | | | |

Wall Power Supply Assembly



Wall Power Supply Assembly Cable Connections

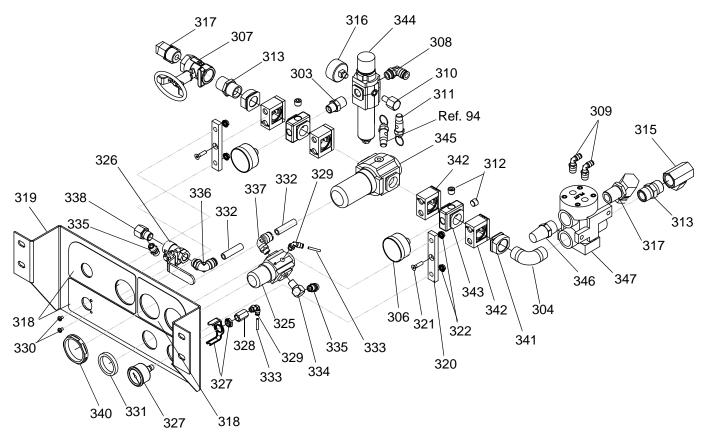


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| | | | Qty |
|--------------|----------|---------------------------------|-----|
| Ref. | Part | Description | |
| 262 | 102063 | WASHER, lock; carbon steel | 1 |
| 263 | 110637 | SCREW, machine pan head | 3 |
| 266 | 15V778 | CABLE, CAN, IS, female B/female | 1 |
| | | B; 20 in. | |
| 270 | 15V747 | POWER SUPPLY; 24V, 2.5A, 60W | 1 |
| 271 | 115306 | FILTER, power supply | 1 |
| 272 × | | CABLE, power, control box | 1 |
| 272a∜ | 15X407 | CABLE, power, US plug | 1 |
| 272b | 15Y685 ₹ | CORD; 240V, 10A, IEC320 | 1 |
| | 195551 | RETAINER, adapter, cord | 1 |
| | 242001 | CORD, set, adapter, Europe | 1 |
| | 242005 | CORD, set, adapter, Australia | 1 |
| 273 | 100035 | SCREW, machine pan head | 4 |
| 274 | 15V779 | CABLE, CAN, IS, female B/female | 1 |
| | | B; 39.4 in. | |

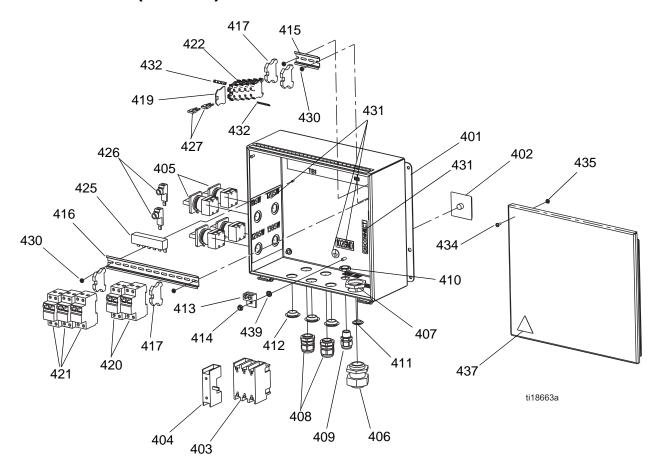
- **★** Used on XM_A_ _ models only.
- * Not shown.

Air Controls Module (255761) Parts



| | | | Qty | | | (| Qty |
|------------|----------|---|--------|------|------------|--|-----|
| Ref. | Part | Description | | Ref. | Part | Description | |
| 303 | 157350 | NIPPLE, pipe; 1/2 x 3/8 npt | 1 | 332 | 054760 | TUBE, polyurethane, round, black; | - |
| 304 | 108307 | ELBOW, pipe, male | 1 | | | 1.25 in. | |
| 306 | 101689 | GAUGE, press, air | 2 | 333 | | TUBE, polyurethane, round; 0.6 ft. | - |
| 307 | 117346 | VALVE, ball, vented | 1 | 334 | 100840 | ELBOW, street | 1 |
| 308 | 114316 | | 1 | 335 | 162453 | FITTING; 1/4 npsm x 1/4 npt | 2 |
| 309* | | ELBOW, male, swivel; 1/4 OD tube | 2 | 336 | 114114 | | 1 |
| 310 | 158962 | | 1 | 337 | 114128 | | 1 |
| 311 | | VALVE, safety, relief, air | 1 | 338 | 164259 | ELBOW, street | 1 |
| 312 | 100721 | PLUG, pipe | 3 | | 122336 | NUT, panel, regulator | 1 |
| 313 | 119992 | PIPE, nipple; 3/4 x 3/4 npt | 2 | | 113440 | ADAPTER | 2 |
| 315 | | ADAPTER, union; 90 deg. | 1 | | 113431 | CLAMP, quick | 4 |
| 316 | 113911 | GAUGE, pressure, air | 1 | | 113442 | BLOCK, porting | 2 |
| 317 | | ADAPTER, union; 90 deg. | 2 | | | REGULATOR | 1 |
| 318 | 15T119 | | 1 | | | FILTER, element; 5 micron | 1 |
| 319 | 4 ED 407 | BRACKET, air controls | 1 | | 15R487 | | 1 |
| 320 | 15R437 | | 2 | | | MUFFLER | 1 |
| 321 | | SCREW, machine, hex flat head | 2 4 | 34/★ | 15K485 | VALVE, dual pilot | 1 |
| 322 | | NUT, hex, flange head | 4 | | | | |
| 325 326 | | REGULATOR, air VALVE, ball, air, panel mounted | 1 | | | ed in Air Controls Kit 255772 (purchas | e |
| 327 | 121437 | GAUGE, pressure, panel mount, | 1 | se | parately). | | |
| 321 | 121424 | 1.5 in. | 1 | * Ea | rlv model | s used 114469 for 5/32 tube. | |
| 328 | 100451 | COUPLING | 1 | | , | | |
| 329 | 114151 | ELBOW, male, swivel | 2 | | | | |
| 330 | _ | SCREW, machine, pan head | 2 | | | | |
| 331 | 116514 | NUT, regulator | 1 | | | | |
| 001 | | 110 1, 109 alato. | • | | | | |

Junction Box (256540) Parts



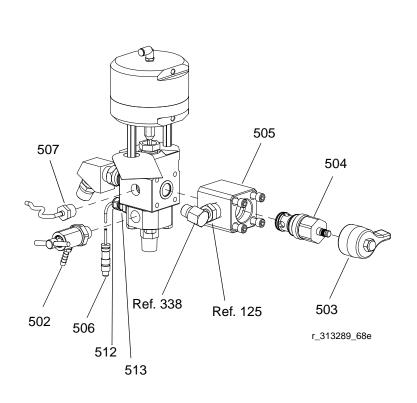
| | | | Qty |
|------|--------|------------------------------------|-----|
| Ref. | Part | Description | |
| 401 | | ENCLOSURE, electrical | 1 |
| 402 | 117545 | KNOB, operator disconnect | 1 |
| 403 | 117564 | SWITCH, disconnect; 100A | 1 |
| 404 | 117553 | SWITCH, disconnect, phase | 1 |
| | | expander; 100A | |
| 405 | 15U423 | SWITCH; 25A | 4 |
| 406 | 255047 | BUSHING, strain relief, m40 thread | 1 |
| 407 | 255048 | NUT, strain relief; M40 thread | 1 |
| 408 | 116171 | BUSHING, strain relief | 2 |
| 409 | 117745 | BUSHING, strain relief | 1 |
| 410 | 117625 | NUT, locking | 1 |
| 411 | 15U543 | , , | 1 |
| 412 | 15U544 | , , | 3 |
| 413 | 117666 | TERMINAL, ground | 1 |
| 414 | 115942 | NUT, hex, flange head | 1 |
| 415 | | RAIL, mounting; 3 in. | 1 |
| 416 | | RAIL, mounting | 1 |
| 417 | 255045 | BLOCK, clamp end | 4 |
| 419 | | COVER, end | 1 |
| 420 | 255050 | CIRCUIT BREAKER; 25A | 2 |
| 421 | 121623 | CIRCUIT BREAKER; 10A | 3 |
| 422 | 120570 | BLOCK, terminal | 5 |
| 425 | | BAR, power bus, 6 pin | 1 |
| 426 | 117679 | CONNECTOR, power lug | 2 |

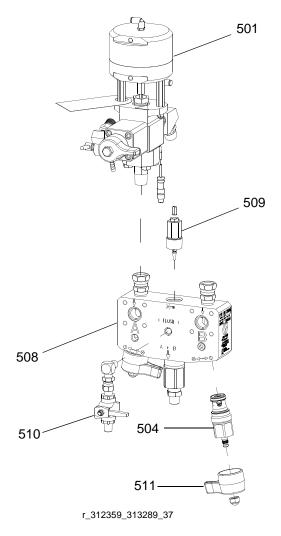
| , | | | | Qty |
|----------|------|--------|-------------------------------|-----|
| | Ref. | Part | Description | |
| | 427 | 120573 | BRIDGE, plug-in | 2 |
| | 428* | 15U954 | HARNESS, junction box | 1 |
| | 430 | | NUT, keps, hex head | 4 |
| | 431 | 15U662 | LABEL, identification | 1 |
| | 432 | | MARKER, block, terminal | 2 |
| | 434 | 112948 | SCREW, machine head | 1 |
| | 435 | 100166 | NUT, full hex | 1 |
| | 436* | 15R344 | LABEL, identification, wiring | 1 |
| <u> </u> | 437▲ | 196548 | LABEL, caution | 1 |
| | 438* | | SCHEMATIC, wiring | 1 |
| | 439 | 558685 | WASHER, 1/4 external | 1 |
| | | | | |

▲ Replacement Danger and Warning labels, tags, and cards are available at no cost.

* Not shown.

Fluid Control Assembly Parts

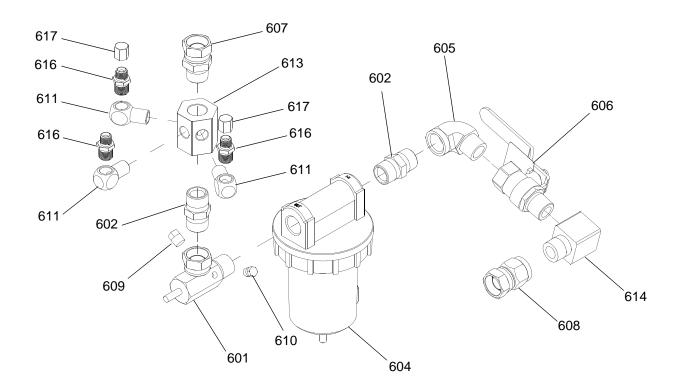




| Ref. | Part | Description | Qty. |
|-----------------|--------|-------------------------------|------|
| 501₽ | 255478 | VALVE, dosing | 2 |
| 502‡ | 245143 | VALVE, sampling | 2 |
| 503🏗 | 15R381 | HANDLE, valve, recirculation | 2 |
| | | (black) | |
| 504 \$ * | 255747 | CARTRIDGE, valve, check | 4 |
| 505🏗 | 15J594 | HOUSING, valve, check | 2 |
| 505a | 121139 | O-RING, valve; PTFE | 2 |
| 506 | 15R347 | SENSOR, RTD | 2 |
| 507 | 15M669 | SENSOR, fluid, pressure | 2 |
| 507a | 121399 | O-RING, transducer, pressure | 2 |
| 508◆ | 255684 | MANIFOLD, mix, assy | 1 |
| 509◆ | | VALVE, restrictor, assy | 1 |
| 510◆ | 214037 | VALVE, solvent, shutoff, assy | 1 |
| 511◆ | | HANDLE, valve, mix manifold | 2 |
| | | (blue and green) | |
| 512 | 15T072 | GRIP, cord | 2 |
| 513 | 15T071 | FITTING, thermo-well | 2 |

- See Dosing Valve manual 313342 for more information.
- ‡ See Xtreme Displacement Pumps manual 311762 for more information. Repair kit 245145 is available for order.
- See High Flow Severe Duty Shutoff Check Valve manual 313343 for more information.
- ◆ See XM Mix Manifold Kits manual 312749 for more information and part numbers.
- * Seal kit 256239 is available for order.

Air Inlet Manifold (255762) Parts

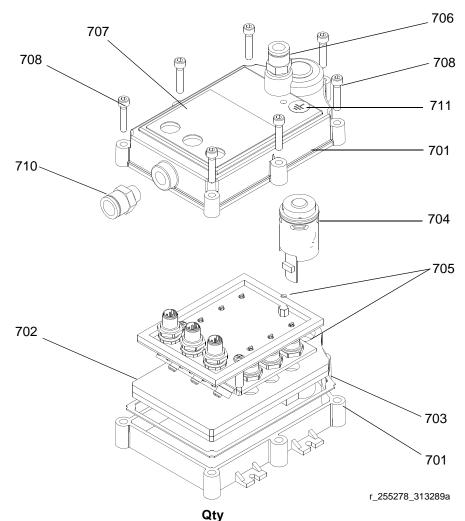


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| | | | Qty |
|-------|--------|----------------------------------|-----|
| Ref. | Part | Description | |
| 601 | 207675 | MANIFOLD, air | 1 |
| 602 | 119992 | PIPE, NIPPLE; 3/4 x 3/4 npt | 2 |
| 603 | 15E145 | MANIFOLD, air distribution | 1 |
| 604 | 117628 | FILTER, air, auto drain; 3/4 npt | 1 |
| 604a≉ | 106204 | ELEMENT, filter; 3/4 npt | |
| 605 | 122327 | ELBOW, pipe, male | 1 |
| 606 | 113218 | VALVE, ball, vented | 1 |
| 607 | 157785 | SWIVEL | 1 |
| 608 | 156172 | UNION, swivel | 1 |
| 609 | 100509 | PLUG, pipe | 1 |
| 610 | 114234 | PLUG, hex head | 1 |
| 611 | 155699 | ELBOW, street | 3 |
| 614 | 166590 | ELBOW, street | 1 |
| 616 | 157350 | ADAPTER | 3 |
| 617 | 115781 | CAP PLUG | 2 |

* Not shown.

Alternator Module (255728) Parts



| | | | Q.Ly |
|--------------|--------|---------------------------|------|
| Ref. | Part | Description | |
| 701 | | HOUSING, upper and lower | 1 |
| 702 | | GASKET, stacked, internal | 1 |
| 703 | | GASKET, housing | 1 |
| 704 | 257147 | TURBINE | 1 |
| 705 | | BOARD, assy. | 1 |
| 706 | 122161 | FITTING, air | 1 |
| 707▲ | 15R337 | LABEL, warning | 1 |
| | | SCREW, cap, socket head | 7 |
| 709 ≉ | C12508 | TUBING, nylon; 2 ft. | - |
| 710 | 122848 | FITTING, air | 1 |
| 711▲ | 172953 | LABEL, grounding | 1 |

▲ Replacement Danger and Warning labels, tags, and cards are available at no cost.

* Not shown.

Repair and Spare Parts Reference

NOTE:

Part numbers and sub-assemblies may change. See www.graco.com for most current part numbers and manuals.

| Ref. | Part | Description | Qty. | Part of Assembly |
|---------------------------|--------|--|------|------------------|
| 2 | 257055 | NXT Motor w/linear transducer | 2 | Motor |
| 2 | NXT600 | Motor seal kit | 2 | Motor |
| 2 | NXT135 | Air Valve seal kit | 2 | Motor |
| 2 | NXT136 | Air valve rebuild kit | 2 | Motor |
| 2a | 256893 | Linear sensor | 2 | Motor |
| 60 | 262478 | Mixer housing, no mixer; 1/2 in. ID, 3/8 nptm | 2 | System |
| 61 | 248927 | Mixer sticks; 1/2 in. x 12 element, package of 25 | 2 | System |
| 64 | XTR704 | XTR spray gun; 7250 psi; includes 519 RAC tip | 1 | System |
| 64a | XHD001 | RAC guard, housing, replacement | 1 | System |
| 64b | XHDxxx | RAC tip, seal, gasket, x indicates tip size | 1 | System |
| 66 | L250C4 | Xtreme displacement pump L250C3 w/o filter | 1 | XM50 "A" pump |
| 66 | 244903 | Repair kit with Tuff Stack | 1 | XM50 "A" pump |
| 66 | 244853 | Repair kit with Xtreme seals | 1 | XM50 "A" pump |
| 66 | L180C4 | Xtreme displacement pump L180C3 w/o filter | 1 | XM70 "A" pump |
| 66 | 244901 | Repair kit with Tuff Stack | 1 | XM70 "A" pump |
| 66 | 244851 | Repair kit with Xtreme seals | 1 | XM70 "A" pump |
| 67 | L220C4 | Xtreme displacement pump L220C3 w/o filter | 1 | XM50 "B" pump |
| 67 | 244902 | Repair kit with Tuff Stack | 1 | XM50 "B" pump |
| 67 | 244852 | Repair kit with Xtreme seals | 1 | XM50 "B" pump |
| 67 | L145C4 | Xtreme displacement L145C3 w/o filter | 1 | XM70 "B" pump |
| 67 | 244900 | Repair kit with Tuff Stack | 1 | XM70 "B" pump |
| 67 | 244850 | Repair kit with Xtreme seals | 1 | XM70 "B" pump |
| 67a | 224458 | Filter screens; 30 mesh, package of 2 (optional) | 1 | Pump |
| 67a | 224459 | Filter screens;60 mesh, package of 2 (optional) | 1 | Pump |
| 67b | 244895 | Filter o-rings; PTFE, package of 10 (thin) | 2 | Pump |
| 67b | 262484 | Filter o-rings; package of 10 (medium), PTFE | 2 | Pump |
| 67b | 262483 | Filter o-rings; PTFE, package of 10 (thick) | 2 | Pump |
| 72 | 15T258 | Wrench, Xtreme pump | 1 | System |
| 75 | 206995 | TSL; quart bottle | 1 | System |
| 88 | 255747 | Cartridge, circulation, shut-off, mix manifold valves | 4-6 | Shut-off/check |
| 88a | 256239 | Seal kit for cartridge valves | 4-6 | Shut-off/check |
| 100a | 223016 | Repair kit for b/p restrictor valve | 2 | System |
| 147 | 16A004 | Flash drive for USB download; 4 GB | 1 | Control |
| 204a | 15M483 | Membrane shields, package of 10 | 1 | Control |
| 20 4 a 209a | 121636 | Solenoid valve, individual replacement valve with DIN | 4 | Control |
| 209a 223a | 123412 | Spare key; one pair | 1 | Controls |
| 344a | 123454 | Control filter; 5 micron, replacement element | 1 | Air controls; |
| 501a | 234098 | Seal kit; include soft parts, old and new dosing valve | 2 | |
| | | | | Dosing valve |
| 501b 502 | 234131 | Rebuild kit; includes seals, stem, seat, and air spring Sample valve; complete valve | 2 2 | Dosing valve |
| | 245143 | Sample valve, complete valve Sample valve kit; includes o-rings, ball, seat, clip | | Dosing valve |
| 502a | 245145 | | 2 | Dosing valve |
| 505b | 121139 | Circulation valve seal; face o-ring, -210, PTFE | 2 | Dosing valve |
| 507b | 121399 | Transducer seal; o-ring, -012, solvent resistant rubber | 2 | Dosing valve |
| 508a | 256238 | Repair kit; includes seals, balls, seats, shut-off stems | 1 | Mix manifold |
| 508b | 551387 | Fluid gauge, bottom mount; 10,000 psi (690 bar) | 1 | Mix manifold |
| 508c | 114434 | Fluid gauge, back mount; 10,000 psi (690 bar) | 1 | Mix manifold |
| 508d | 185416 | B-side strainer; 40 mesh (use tool 15T630) | 1 | Mix manifold |
| 508e | 121410 | Strainer o-ring; PTFE, -113, strainer restrainer | 1 | Mix manifold |
| 508f | 15T630 | Strainer tool (push in 121410 o-ring + shut-off u-cup) | 1 | Mix manifold |
| 510 | 214037 | Flush valve, ball; 1/4 npt(m) PTFE | 1 | Mix manifold |
| 604a | 106204 | Main air filter, element (fits 3/4 npt air filters) | 1 | Air controls |
| 704 | 257147 | Turbine cartridge (fits 255728 XM or Xtreme Mix) | 1 | Control |

Accessories and Kits





Not all accessories and kits are approved for use in hazardous locations. Refer to the specific accessory and kit manuals for approval details.

20-Gallon Hopper Kit, 255963

One complete double-wall 20-gallon hopper. See manual 312747 for more information.

Hopper Heater Kit (240V), 256257

For heating fluid in a 20-gallon hopper. See manual 312747 for more information.

Universal Hopper Fluid Inlet Kit, 256170

For connecting any of the four lower models included with XM sprayer to a 20-gallon hopper. See manual 312747 for more information.

Universal Hopper Mounting Kit, 256259

For mounting a 20-gallon hopper to the side or back of an XM sprayer. See manual 312747 for more information.

Twistork Agitator Kit, 256274

For mixing viscous materials held within a 20-gallon hopper. See manual 312769 for more information.

T2 Feed Pump Kit, 256275

For supplying viscous material from a 20-gallon hopper to an XM sprayer. See manual 312769 for more information.

5:1 Feed Pump Kit, 256276

For supplying viscous materials from a 20-gallon hopper to an XM sprayer. See manual 312769 for more information.

7-Gallon Hopper and Bracket Kit, 256260 (Green) 24N011 (Blue)

One 7-gallon hopper and mounting brackets. Mounts to the side or back of an XM sprayer. See manual 406699 for more information.

2:1 Drum Feed Kit, 256232

One T2 pump feed kit and one Twistork agitator kit for mixing and supplying viscous materials from a with 55-gallon drum to an XM sprayer. See manual 312769 for more information.

5:1 Drum Feed Kit, 256255

One 5:1 pump feed kit and one Twistork agitator kit for mixing and supplying viscous materials from a with 55-gallon drum to an XM sprayer. See manual 312769 for more information.

Hopper/Hose Heat Circulation Kit, 256273

For circulating heated water mixture through 20-gallon hoppers, heated hose, and Viscon HP heater. See manual 313259 for more information.

Desiccant Dryer Kit, 256512

For use with 20-gallon hoppers. See manual 406739 for more information.

Caster Kit, 256262

For mounting casters on XM sprayer frame. See manual 406690 for more information.

Hose Rack Kit, 256263

For mounting to side, front, or back of XM sprayer frame. See manual 406691 for more information.

Lower Strainer and Valve Kit, 256653

For straining material from a feed pump to an XM sprayer fluid inlet. See manual 312770 for more information.

Electric Heated Hose Power Supply Kit, 256876

For monitoring and controlling fluid temperature in low-voltage heated hoses. See manual 313258 for more information.

5000 psi Two-Component Main Heated Hose Set Kit

Electric heated hose set for adding additional sections.

| Part | Description |
|--------|--|
| 248907 | Heated hose set; 1/4 in. ID x 3/8 in. ID; 50 ft. |
| 248908 | Heated hose set; 3/8 in. ID x 3/8 in. ID; 50 ft. |

10:1 Drum Feed Kit, 256433

For supplying highly viscous material from a 55-gallon drum to an XM sprayer. See manual 312769 for more information.

Shutoff/Check Valve Kit, 255278

For replacing shutoff valve or check valve. See manual 313343 for more information.

Alternator Conversion Kit, 256991

For converting an XM sprayer from wall power supply to intrinsically safe alternator power supply. See manual 313293 for more information.

Mix Manifold Kit, 255684

See manual 312749 for more information.

Remote Mix Manifold and Carriage Kit, 256980

For converting to a remote mix manifold kit with a protective guard. See manual 312749 for more information.

Restrictor Valve Kit, 24F284

For B dosing outlet on remote mix manifold machines. Use to convert early XM machines without the valve on the B outlet.

Restrictor Valve Wrench, 126786

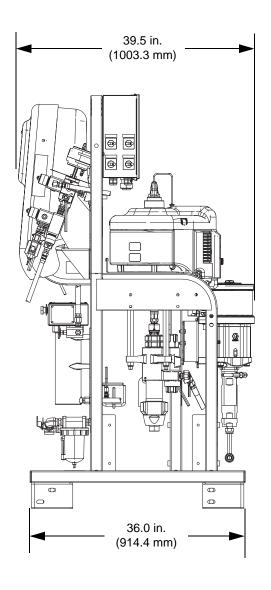
For adjusting restrictor (509). See page 66.

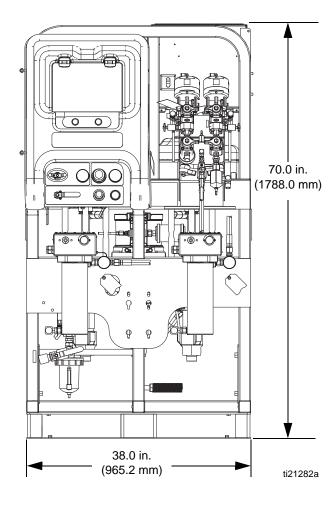
Xtreme Pump Wet Cup Wrench, 15T258

Xtreme Pump Filter Wrench, 16G819

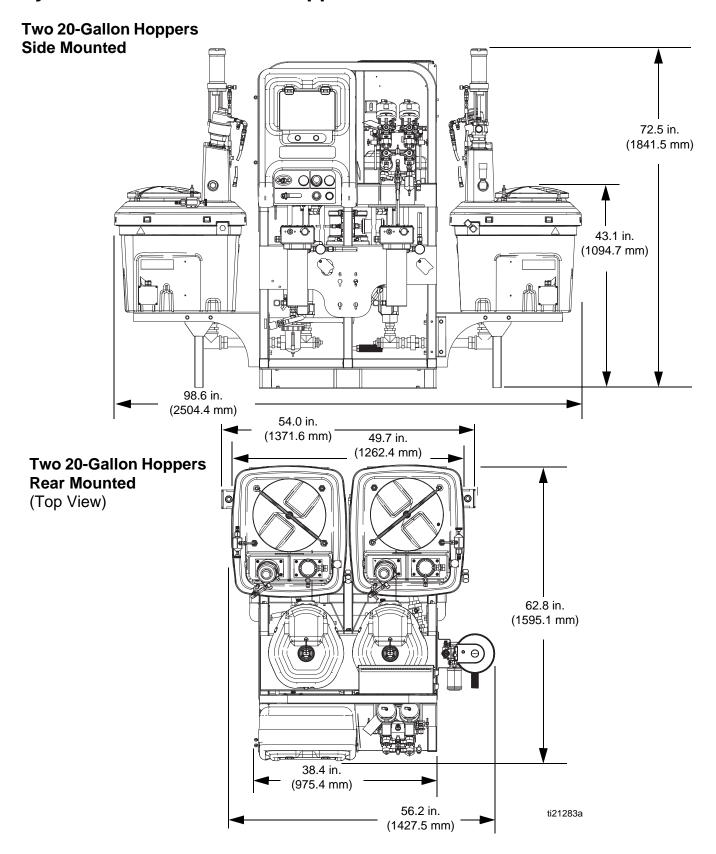
Dimensions

System Dimensions without Hoppers



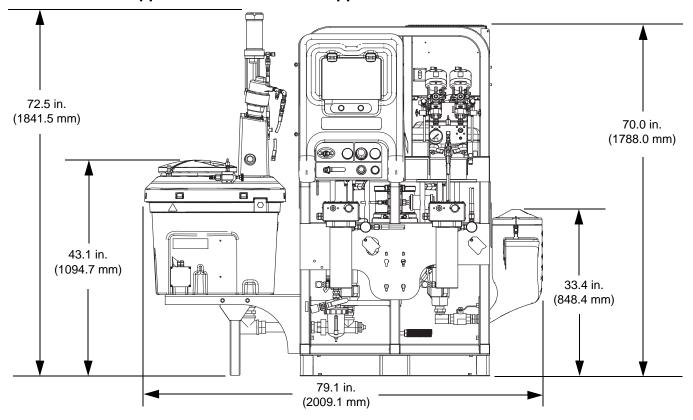


System Dimensions with Hoppers

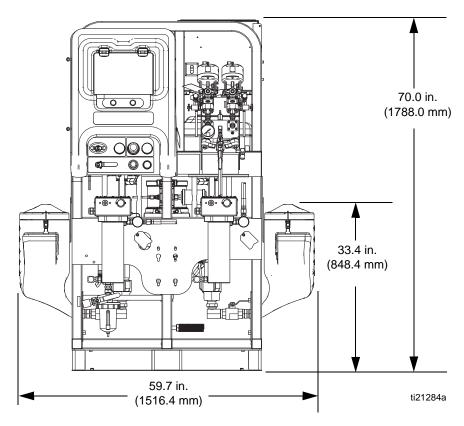


System Dimensions with Hoppers

One 20-Gallon Hopper and One 7-Gallon Hopper



Two 7-Gallon Hoppers



Technical Data

| Mixed ratio range | |
|---|--|
| Minimum | 1 at /min (0.95 liter/min.)* |
| Maximum | |
| Fluid viscosity range | |
| Trails viscosity range | heat, circulation, and/or pressure feeding) |
| Fluid filtration | |
| | assembly not included on some models) |
| Air inlet | 3/4 npt(f) |
| Fluid inlets without feed kits | 1 1/4 npt(m) |
| Maximum fluid working pressure of mixed material | |
| 50:1 | , |
| 70:1 | |
| Maximum fluid temperature | , |
| Maximum pump air set pressure | 30-130 psi (0.35-1.0 MFa, 3.5-10.3 bai) |
| 50:1 | 105 psi (0.74 MPa, 7.4 bar) |
| 70:1 | |
| Maximum pump inlet fluid feed pressure | |
| Maximum air consumption at 100 psi (0.7 MPa, 7.0 bar) | |
| in scfm (m ³ /min.) | 70 scfm per gpm (1.96 m ³ /min. per lpm) |
| Ambient temperature range | |
| Operating | |
| Storage | |
| Environmental conditions rating | Altitude up to 4000 m |
| | Maximum relative humidity to 99% up to 130° F (54° C) |
| | Pollution degree (11) |
| | Installation category (2) |
| Sound pressure | 86 dBA at 100 psi (0.7 MPa, 7 bar) |
| Sound power | 98 dBA at 100 psi (0.7 MPa, 7 bar) |
| Wetted parts | |
| Suction tubes | |
| Flush pump | |
| | carbon steel, alloy steel, 303, 440, 17-ph grades stainless |
| r amps (r and b) | steel, zinc and nickel plating, ductile iron, tungsten car- |
| | bide, PTFE |
| Metering valves | carbon steel, nickel plating, carbide, polyethylene, leather |
| Manifold | carbon steel, nickel plating, carbide, 302 stainless steel, |
| | PTFE, UHMWPE |
| Mixer | |
| Spray gun | |
| Weight | · |
| g | 742 lbs (336.87 kg) |
| | (Add component weight(s) to base sprayer weight for your |
| | specific model weight. See component manuals.) |
| | |

^{*} Minimum flow rate is dependent on material being sprayed and mixing capability. Test your material specific to flow rate.

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