Repair-Parts

XM™ Plural-Component Sprayers

313289ZAC

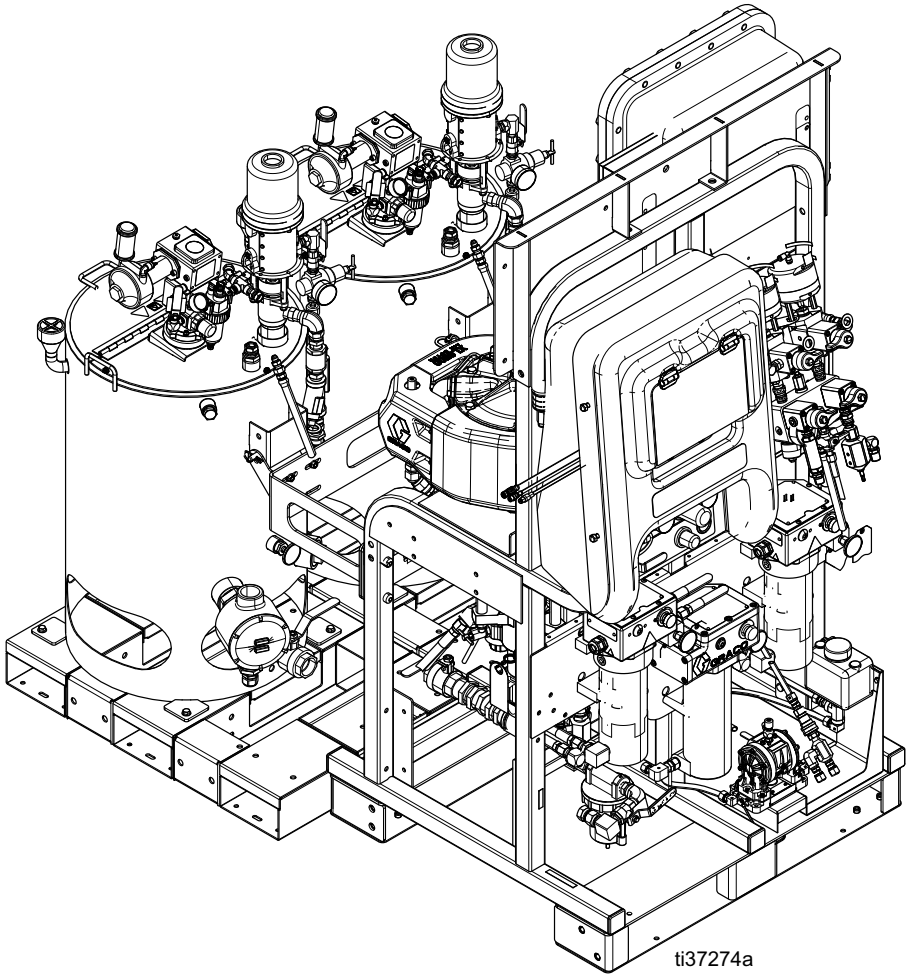
EN

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

Important Safety Instructions
Read all warnings and instructions in this manual and all related manuals before using the equipment. Save these instructions.

See page and 11 for **Approvals**, and page 15 for **Overview** information.

See **Technical Specifications** on page 104 for maximum working pressure.



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Contents

Related Manuals

Manuals are available at www.graco.com.

Manual in English	Description
312359	XM Plural-Component Sprayers Operation
313292	XM Plural-Component OEM Sprayers Instructions-Parts
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3A5423	XL6500 and XL3400 Air Motor Instructions-Parts
3A6110	Double Wall Stainless Steel Lined Hopper Kit Instructions-Parts
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Warnings

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

DANGER

SEVERE ELECTRIC SHOCK HAZARD

This equipment can be powered by more than 240 V. Contact with this voltage will cause death or serious injury.

- Turn off and disconnect power at main switch before disconnecting any cables and before servicing equipment.
- This equipment must be grounded. 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

FIRE AND EXPLOSION HAZARD

Flammable fumes, such as solvent and paint fumes, in **work area** can ignite or explode. Paint or solvent flowing through the equipment can cause static sparking. To help prevent fire and explosion:

- Use equipment only in well-ventilated area.
- Eliminate all ignition sources; such as pilot lights, cigarettes, portable electric lamps, and plastic drop cloths (potential static sparking).
- Ground all equipment in the work area. See **Grounding** instructions.
- Never spray or flush solvent at high pressure.
- 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.
- Use only grounded hoses.
- Hold gun firmly to side of grounded pail when triggering into pail. Do not use pail liners unless they are anti-static or conductive.
- **Stop operation immediately** if static sparking occurs or you feel a shock**.** 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 only with a damp cloth.
- Flamepath joints are not for repair. Contact the manufacturer.
- Special fasteners for securing equipment covers shall have a minimum yield strength of 1000 MPa, and be corrosion resistant and sized M8x1.5x30.

⚠ 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_D00, XM_N_ _, or XM_E_ _ utilizing the air-driven alternator are approved for installation in a Hazardous (explosive atmosphere) Location - see **Approvals**, page 11. 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.**

- Engage trigger lock when not dispensing.
- Do not spray without tip guard and trigger guard installed.
- Engage trigger lock when not spraying.
- 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.
- Follow the **Pressure Relief Procedure** when you stop spraying and before cleaning, checking, or servicing equipment.
- Tighten all fluid connections before operating the equipment.
- Check hoses and couplings daily. Replace worn or damaged parts immediately.


MOVING PARTS HAZARD

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

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

⚠ WARNING

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 Specifications** in all equipment manuals.
- Use fluids and solvents that are compatible with equipment wetted parts. See **Technical Specifications** in all equipment manuals. Read fluid and solvent manufacturer's warnings. For complete information about your material, request Safety Data Sheets (SDSs) from distributor or retailer.
- Do not leave the work area while equipment is energized or under pressure.
- Turn off all equipment and follow the **Pressure Relief Procedure** when equipment is not in use.
- Check equipment daily. Repair or replace worn or damaged parts immediately with genuine manufacturer's replacement parts only.
- Do not alter or modify equipment. Alterations or modifications may void agency approvals and create safety hazards.
- Make sure all equipment is rated and approved for the environment in which you are using it.
- Use equipment only for its intended purpose. Call your distributor for information.
- Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces.
- Do not kink or over bend hoses or use hoses to pull equipment.
- 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.

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

BURN HAZARD

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

- Do not touch hot fluid or equipment.

PERSONAL PROTECTIVE EQUIPMENT

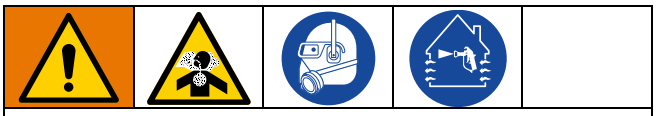
Always wear appropriate personal protective equipment and cover all skin when spraying, servicing equipment, or when in the work area. Protective equipment helps prevent serious injury, including long-term exposure; inhalation of toxic fumes, mists or vapors; allergic reaction; burns; eye injury and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

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

Important Isocyanate (ISO) Information

Isocyanates (ISO) are catalysts used in two component materials.

Isocyanate Conditions



Spraying or dispensing fluids that contain isocyanates creates potentially harmful mists, vapors, and atomized particulates.

- Read and understand the fluid manufacturer's warnings and Safety Data Sheets (SDSs) to know specific hazards and precautions related to isocyanates.
- Use of isocyanates involves potentially hazardous procedures. Do not spray with this equipment unless you are trained, qualified, and have read and understood the information in this manual and in the fluid manufacturer's application instructions and SDSs.
- Use of incorrectly maintained or mis-adjusted equipment may result in improperly cured material. Equipment must be carefully maintained and adjusted according to instructions in the manual.
- To prevent inhalation of isocyanate mists, vapors, and atomized particulates, everyone in the work area must wear appropriate respiratory protection. Always wear a properly fitting respirator, which may include a supplied-air respirator. Ventilate the work area according to instructions in the fluid manufacturer's SDSs.
- Avoid all skin contact with isocyanates. Everyone in the work area must wear chemically impermeable gloves, protective clothing and foot coverings as recommended by the fluid manufacturer and local regulatory authority. Follow all fluid manufacturer recommendations, including those regarding handling of contaminated clothing. After spraying, wash hands and face before eating or drinking.

Keep Components A and B Separate

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

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

Moisture Sensitivity of Isocyanates

Exposure to moisture (such as humidity) will cause ISO to partially cure, forming small, hard, abrasive crystal that become suspended in the fluid. Eventually a film will form on the surface and the ISO will begin to gel, increasing in viscosity.

NOTICE

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

- 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 pump wet cup or reservoir (if installed) filled with appropriate lubricant. The lubricant creates a barrier between the ISO and the atmosphere.
- Use only moisture-proof hoses compatible with ISO.
- Never use reclaimed solvents, which may contain moisture. Always keep solvent containers closed when not in use.
- Always lubricate threaded parts with an appropriate lubricant when reassembling.

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

Changing Materials

NOTICE

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

- When changing materials, flush the equipment multiple times to ensure it is thoroughly clean.
- Always clean the fluid inlet strainers after flushing.
- Check with your material manufacturer for chemical compatibility.
- When changing between epoxies and urethanes or polyureas, disassemble and clean all fluid components and change hoses. Epoxies often have amines on the B (hardener) side. Polyureas often have amines on the B (resin) side.

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 XM1L00 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 (L).

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

To order replacement parts, see Parts section the XM Plural-Component Sprayer Repair-Parts manual 313289. The digits in the matrix do not correspond to the Ref. numbers in the Parts drawings and lists.

Table 1: Hazardous Locations

(See **Top Level Sprayer Approvals** on page 11)

First Two Digits	Third Digit			Fourth Digit				Fifth Digit		Sixth Digit	
Model		Pump Set (psi)	Remote Manifold		Control Power		Viscon HP Fluid Heaters	Feed System		Heated Hose	
					Wall Power XM_A00	Intrinsically Safe Alternator XM_D00	Explosion Proof 240V		Feed		
XM	1	XM50 (5200)		N		✓		0	None	0	None
	3	XM70 (6300)		E*		✓	✓	1	10-Gallon Stainless Steel		
	5	XM50 (5200)	✓								
	7	XM70 (6300)	✓								

* Uses Explosion-Proof Viscon High Pressure (HP) Fluid Heaters.

Table 2: Designed with Hazardous Location Approved Components

(No Top Level Sprayer approval - individual component approvals listed in **Approvals**, page 11)

First Two Digits	Third Digit			Fourth Digit							Fifth Digit		Sixth Digit	
Model		Pump Set (psi)	Remote Manifold		Control Power		Viscon HF Fluid Heaters		Junction Box		Feed System		Heated Hose	
					Wall Power XM_A00	Intrinsically Safe Alternator XM_D00	Explosion Proof 240V	Explosion Proof 480V	Explosion Proof 240V	Explosion Proof 480V		Feed		
XM	1	XM50 (5200)		P*		✓	✓				0	None	0	None
	3	XM70 (6300)		F*		✓		✓			1	10-Gallon Stainless Steel	W	Water
	5	XM50 (5200)	✓	J*		✓	✓		✓		2	25-Gallon Heated Skid	E	Electric
	7	XM70 (6300)	✓	K*		✓		✓		✓				

* Uses Explosion-Proof Viscon High Flow (HF) Fluid Heaters.

Table 3: Non-Hazardous Locations

(No Top Level Sprayer approval - individual component approvals listed in **Component Level Approvals**, page 12)

First Two Digits	Third Digit			Fourth Digit							Fifth Digit		Sixth Digit	
Model		Pump Set (psi)	Remote Manifold		Control Power		Viscon HF Fluid Heaters		Junction Box		Feed System		Heated Hose	
					Wall Power XM_A00	Intrinsically Safe Alternator XM_D00	240V	480V	240V	480V		Feed		
XM	1	XM50 (5200)		L	✓						0	None	0	None
	3	XM70 (6300)		M*	✓		✓		✓		1	10-Gallon Stainless Steel	W	Water
	5	XM50 (5200)	✓	H*	✓			✓		✓	2	25-Gallon Heated Skid	E	Electric
	7	XM70 (6300)	✓											

* Uses Viscon High Flow (HF) Fluid Heaters.

Approvals

Table 4: Top Level Sprayer Approvals

Sprayer Model	Top Level Approvals
XM_N_ _	II 2 G Ex ib pxb IIA T3 Gb Tamb = 0°C to 54°C FM09ATEX0015X FM21UKEX0167X Ex i, Class I, Div 1, Group D, T3. Ta = 0°C to 54°C 2575 0359
XM_E_ _	II 2 G Ex db ib pxb IIA T3 Tamb = 0°C to 54°C FM09ATEX0015X FM21UKEX0167X Ex i, Class I, Div 1, Group D, T3. Ta = 0°C to 54°C 2575 0359
XM_P_ _ XM_F_ _	System is intended for hazardous locations with the classification of Class I, Division 1, Group D T3 0°C to 54°C
XM_J_ _ XM_K_ _	System is intended for hazardous locations with the classification of Class I, Division 1, Group D T3 0°C to 54°C
XM_L_ _ XM_M_ _ XM_H_ _	

Table 5: Component Level Approvals

Control Power		North American Location		European Atmosphere		Approvals
Component	Description	Non-Hazardous	Hazardous Class 1 Division 1	Non-Explosive	Explosive	
XM_D00	Intrinsically Safe Alternator	✓	✓	✓	✓	II 2 G 2575 Ex db ib pxb IIA T3 Tamb = 0°C to 54°C FM09ATEX0015X FM21UKEX0167X FM APPROVED UK CA 0359 Intrinsically safe/ Sécurité intrinseque, Ex i, Class I, Div 1, Group D, T3. Ta = 0°C to 54°C
XM_A00	Wall Power	✓		✓		FM APPROVED CE EAC UK CA

Viscon Fluid Heater		North American Location		European Atmosphere		Approvals
Component	Description	Non-Hazardous	Hazardous Class 1 Division 1	Non-Explosive	Explosive	
26C476	480V HF Ex	✓	✓	✓	✓	CE 2575 ETL UK CA 0359 Intertek 9902471 Class I, Division 1, Groups C, D (T3) Ta = -20°C to 60°C KCS Certificate No: **18-KA4B0-0072X**
24W248	240V HF Ex	✓	✓	✓	✓	**II 2 G Ex db IIB T4 Gb** ITS14ATEX18155X IT521UKEX0367X IECEx Ratings EX db IIB T4 Gb IECEx Certificate No. IECEx ETL 14.0046X Ta = -20°C to 60°C
24P016	240V HF Ordinary	✓		✓		ETL CE UK CA Intertek 9902471 Certified to CAN/USA C22.2 No. 61010, 61010-2-010 Conforms to UL 61010, 61010-2-010
26C475	480V HF Ordinary	✓		✓		

Junction Box		North American Location		European Atmosphere		Approvals
Component	Description	Non-Hazardous	Hazardous Class I Division 1	Non-Explosive	Explosive	
Explosion Proof Electrical Enclosure		✓	✓			Class I, Division 1, Groups B, C, & D UL 1203/CSA C22.2 No. 25 & 30
26C583	480V Explosion Proof Junction Box	✓	✓			Designed to Standards: UL 60079-0 UL 60079-25
26C906	480V Explosion Proof Junction Box, Electric Hose Heat	✓	✓			
26C581	240V Explosion Proof Junction Box	✓	✓			
26C905	240V Explosion Proof Junction Box, Electric Hose Heat	✓	✓			
Ordinary Location Electrical Enclosure		✓		✓		Intertek 9902471 Conforms to UL STD 508A Certified to CAN/CSA C22.2 No. 14
26C582	480V Junction Box	✓		✓		
26C904	480V Junction Box, Electric Hose Heat	✓		✓		
26C580	240V Junction Box	✓		✓		
26C899	240V Junction Box, Electric Hose Heat	✓		✓		

Heated Hopper Assembly		North American Atmosphere		European Atmosphere		Approvals
Component	Description	Non-Hazardous	Hazardous Class I Division 1	Non-Explosive	Explosive	
25P239*	Immersion Heaters, 480V	✓	✓			C SP® US Class I, Division 1, Groups B, C, & D (T4)
25N577	Immersion Heaters, 240V	✓	✓	✓		C SP® US CE UKCA Class I, Division 1, Groups B, C, & D (T4)
25N584	5:1 Monark Pump	✓	✓	✓	✓	Ex II 1/2 G CE 2575 UKCA 0359 Ex h IIb T2 Ga/Gb ITS03ATEX11228X ITS21UKEX0322X
25N588	Xtreme Duty Hopper Agitator	✓	✓	✓	✓	Ex II 1/2 G CE 2575 UKCA 0359 Ex h IIb T4 Ga/Gb ITS16ATEX10098AX ITS21UKEX0262X 0°C ≤ Ta ≤ 50°C

*Selected if XM_H_ _, XM_F_ _ are ordered. Will default to 240V immersion heater if XM_M_ _, XM_P_ _ or XM_J_ _ are ordered.

Heated Hose		North American Location Category		European Atmosphere Category		Approvals
Component	Description	Non-Hazardous	Hazardous Class I Division 1	Non-Explosive	Explosive	
See your water heated hose manual for complete list of part numbers	Water Jacketed	✓	✓	✓	✓	CE UKCA Ex II 2 G Ex h T5 Gb
See your electric heated hose manual for complete list of part numbers and approvals	Electric	✓	✓	✓		C SP® US CE UKCA 38141 Class I, Division 1

Overview

Usage

XM plural-component sprayers can mix and spray most two-component epoxy and urethane protective coatings. When using quick-setting materials (less than 10 minute pot life) a remote mix manifold must be used.

XM plural-component sprayers are operated via the user interface, air controls, and fluid controls.

The XM sprayer operates using compressed air pressure. The hazardous location XM model variants feature an intrinsically safe alternator powered by a compressed air-fed turbine as a power supply. The alternator module working pressure must be set to 18 +/- 1 psi (12.6 +/- 10 kPa, 1.26 +/- 0.07 bar).

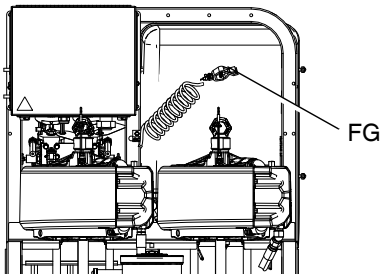
Location

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 9, to determine the appropriate location for your particular model.

Grounding

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

System: Connect the power source ground wire in the electrical compartment as show in **Connect Power Source** in your XM Sprayer Operation Manual (see **Related Manuals**, page 3). Connect the XM sprayer ground wire clamp (FG) to a true earth ground.



Air and fluid hoses: Use only electrically conductive hoses with a maximum of 500 ft (152 m) combined hose length to ensure grounding continuity. Check electrical resistance of hose regularly. If total resistance to ground exceeds 29 megaohms, replace hose immediately.

Spray gun: Ground through connection to a properly grounded fluid hose and pump.

Solvent pails: Follow your local code. Use only conductive metal pails, placed on a grounded surface. Do not place the pail on a non-conductive surface, such as paper or cardboard, which interrupts grounding continuity.

To maintain grounding continuity when flushing or relieving pressure: hold the metal part of the spray gun firmly to the side of a grounded metal pail, then trigger the gun.

Object being sprayed: Follow your local code.

Fluid supply container: Follow your local code.

Air compressor: Follow manufacturer's recommendations.

Proper Lifting of Sprayer

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

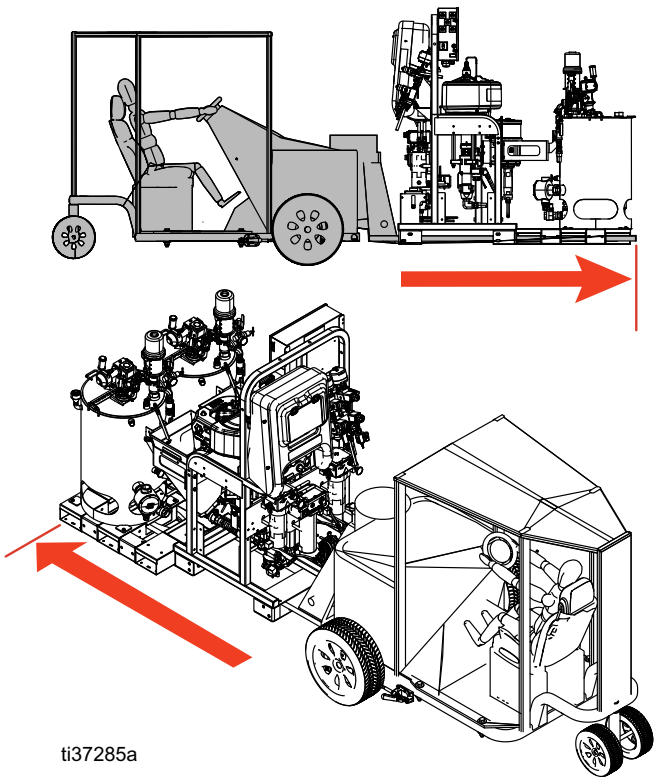
NOTICE

To prevent spilling and to ensure even weight distribution, drain all fluid prior to lifting th proportioner.

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.

NOTE: If 25-gallon hoppers are installed, make sure the forklift arms extend across the entire unit. The forklift must approach from the front of the unit.



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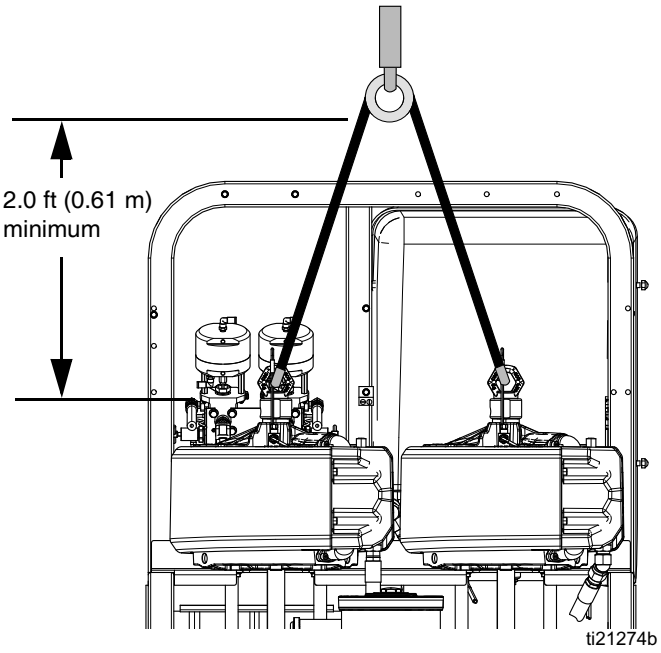
Lift Using a Hoist

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. See the following figure. Carefully lift the sprayer; make sure it balances evenly. Do not lift with 25 gallon hoppers attached to the unit.



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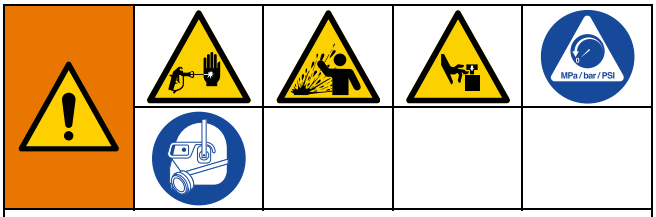
Pressure Relief Procedure

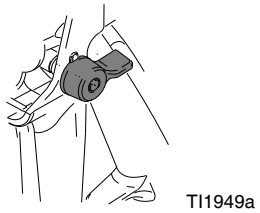
Follow the Pressure Relief Procedure whenever you see this symbol.



This equipment stays pressurized until pressure is manually relieved. To help prevent serious injury from pressurized fluid, such as skin injection, splashing fluid and moving parts, follow this Pressure Relief Procedure when you stop spraying and before cleaning, checking, or servicing the equipment.

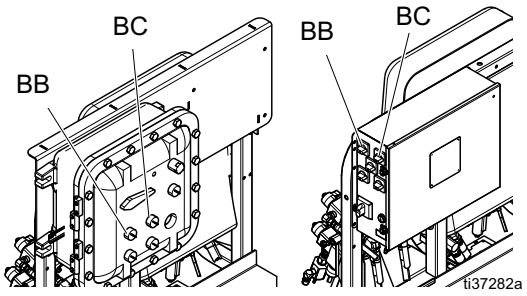
Relieve A and B Fluid Pressure

1. Engage trigger lock.



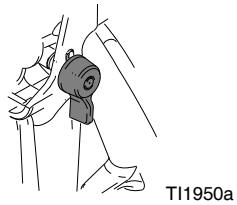
2. Press  .

3. If fluid heaters are used, use Primary Heater Switches (BC) on the junction box to turn them off.

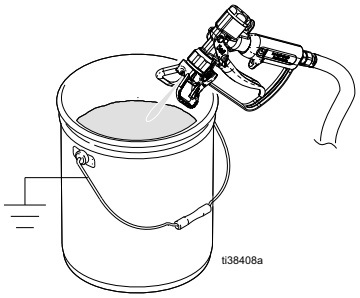


4. If the feed pumps are being used, shut them off by closing the feed pump air regulator and the feed pump air valve.

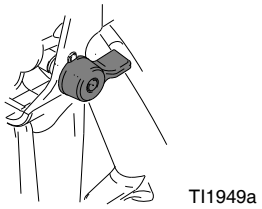
5. Disengage trigger lock.



6. 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.



7. Engage trigger lock.



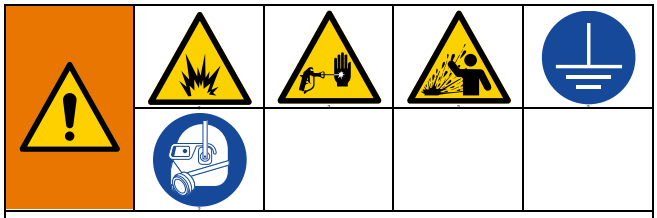
8. Close mix manifold valves (AH, AJ).

NOTICE

To prevent material from curing in the fluid lines and causing damage to the equipment, always flush the mix hose after relieving A and B fluid pressure through the mix manifold. Follow the **Flush Mixed Manifold, Hose, and Spray Gun**, page 18i, when you stop spraying or dispensing, and before cleaning, checking, servicing, or transporting equipment.

Flush

Flush Mixed Manifold, Hose, and Spray Gun

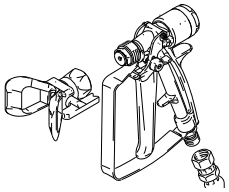


To avoid fire and explosion, always ground equipment and waste container. To avoid static sparking and injury from splashing, always flush at the lowest possible pressure.

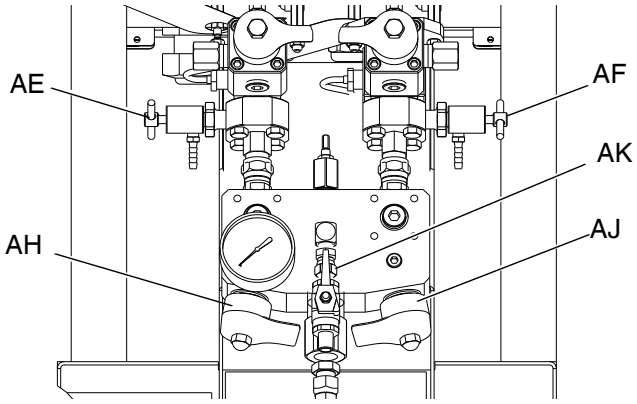
Hot solvent may ignite. To avoid fire and explosion:

- Flush equipment only in well-ventilated area.
- Ensure main power is off and heater is cool before flushing.
- Do not turn on heater until fluid lines are clear of solvent.

1. Press  to turn off system. Follow **Pressure Relief Procedure**, page 17. Engage trigger lock. Remove spray tip.

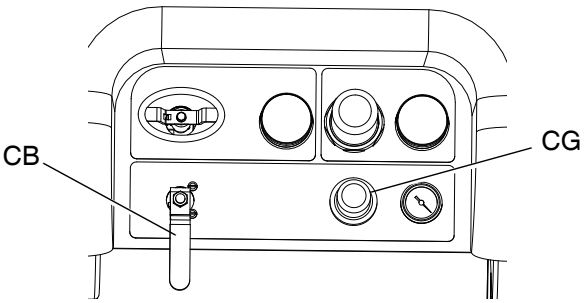


2. Make sure sampling valves (AE, AF) and mix manifold valves (AH, AJ) are closed.

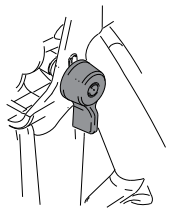


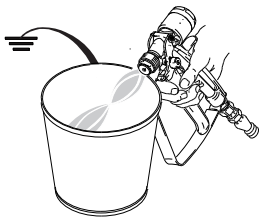
3. Open solvent shutoff valve (AK) at mix manifold.

4. Verify that the solvent pump air regulator (CG) is at 0 psi, then 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.



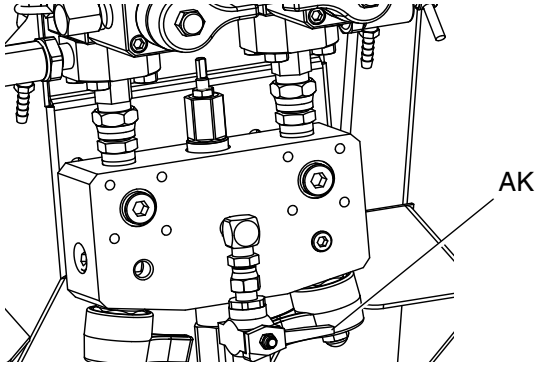
5. Disengage trigger lock. Hold a metal part of the gun firmly to a grounded metal pail with a splash guard in place.Use a pail lid with a hole in it to dispense through. Be careful to keep fingers away from the front of the gun. Trigger gun until clean solvent appears.





6. Close solvent pump air valve (CB).

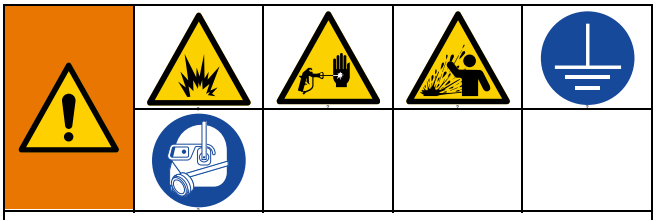
7. Hold a metal part of the gun against a grounded metal pail and trigger the gun to relive pressure. Close the solvent flush valve (AK) after relieving the pressure.



8. Engage trigger lock.

9. Disassemble and clean spray tip with solvent. Reinstall on the gun.

Flush Hoppers

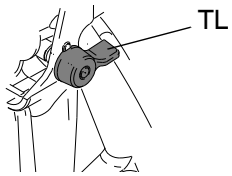


To avoid fire and explosion, always ground equipment and waste container. To avoid static sparking and injury from splashing, always flush at the lowest possible pressure.

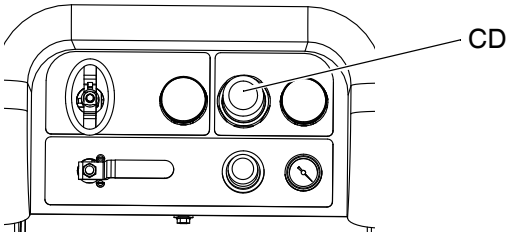
Hot solvent may ignite. To avoid fire and explosion:

- Flush equipment only in well-ventilated area.
- Ensure main power is off and heater is cool before flushing.
- Do not turn on heater until fluid lines are clear of solvent.

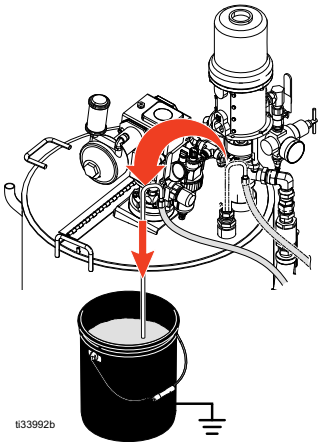
1. If fluid heaters are used, use the hopper heater switches (BD) on the junction box to turn them off. Allow everything to cool before flushing.
2. Follow the **Flush Mixed Manifold, Hose, and Spray Gun** procedure on page 18.
3. Engage the trigger lock (TL).



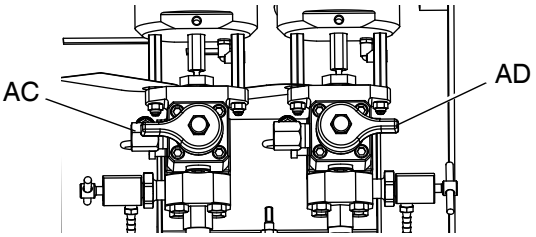
4. Turn the motor air pressure regulator (CD) fully counterclockwise to shut off.



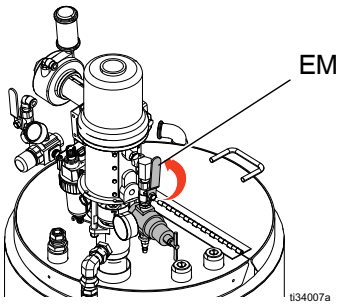
5. Move the recirculation lines (U) to separate grounded fluid containers.



6. Open the recirculation valves (AC, AD).

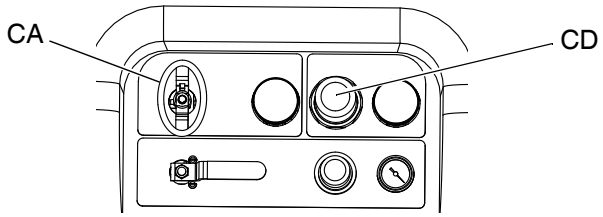


7. Open the feed pump air valve (EM) and begin to pump material out of the hopper. The feed pump may stall.

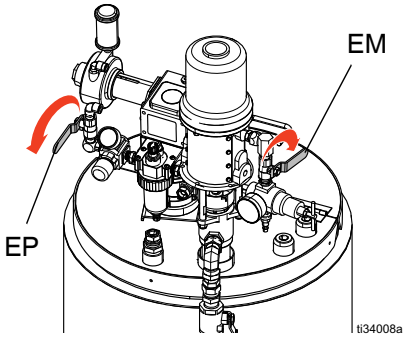


8. Select pumps to recirculate by pressing A B to scroll through: A , B , or A B .

9. Turn on the main air shutoff valve (CA). Use system air regulator (CD) to slowly increase the air pressure to the pumps until they start running slowly.

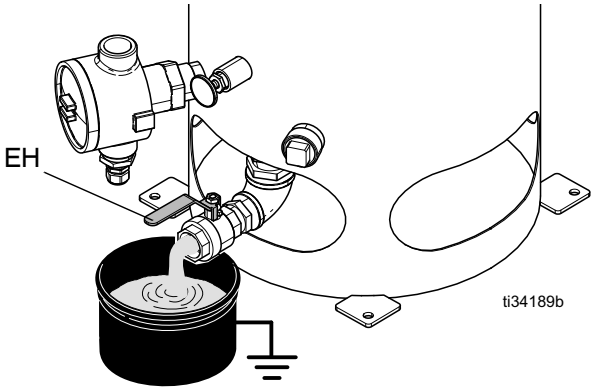


10. Run feed pumps until they are dry. Turn off the feed pump air valve (EM) and agitator air valve (EP).

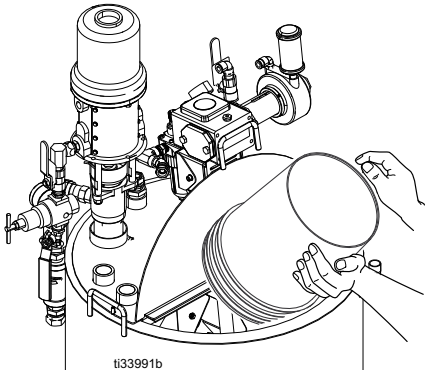


11. Run the main high pressure fluid pumps until the material has been emptied out of the system, press ▼.

12. Place a small pail under the hopper and open the material drain (EH) to fully drain the spray material.

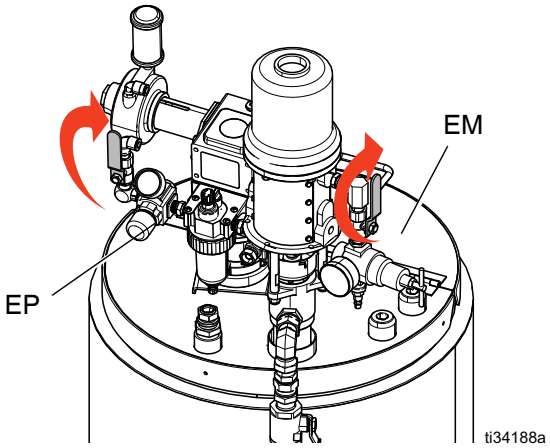


13. Close the material drain (EH) and fill the hopper with solvent.



14. Return the circulation lines (U) to their respective hoppers.

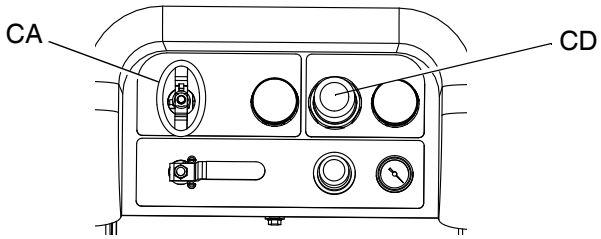
15. Open on the agitator air valve (EP) and feed pump air valve (EM).



16. Select pumps to recirculate by pressing A B to scroll through: A , B , or A B .

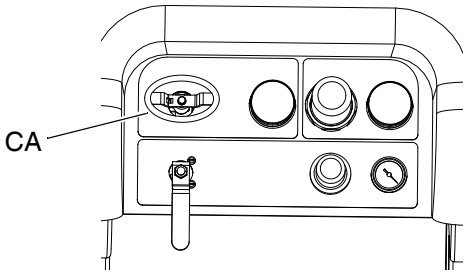
17. Turn on the main air shutoff valve (CA). Use the system air regulator (CD) to slowly increase the air pressure to the pumps until they start running slowly. Circulate for two to three minutes.

18. Drain the material by moving circulation lines to a waste container or using the material drain (EH).

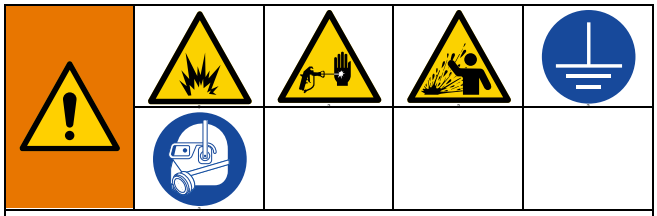


19. Repeat steps 13-18. Change the flushing solvent until it runs clean.

20. Turn off the main air shutoff valve (CA).



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



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

Hot solvent may ignite. To avoid fire and explosion:

- Flush equipment only in well-ventilated area.
- Ensure main power is off and heater is cool before flushing.
- Do not turn on heater until fluid lines are clear of solvent.

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, follow the **Flush Mixed Manifold, Hose, and Spray Gun** procedure on page 18.

Guidelines

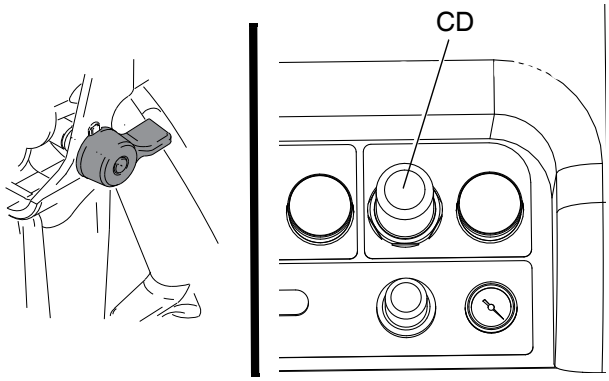
Flush new systems if coating materials will be contaminated by 10W oil.

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 17, and **Flush Mixed Manifold, Hose, and Spray Gun** procedure on page 18. Engage trigger lock. Turn main pump air regulator (CD) fully counter-clockwise to shut off.



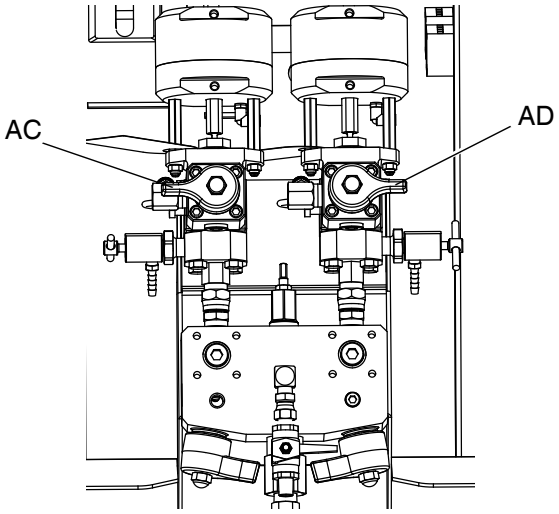
NOTE: When flushing coating materials, remove pump fluid filters, if installed, and soak in solvent to decrease cleaning time. If flushing a new system, leave filters in place. Proceed with Step 2.

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).
4. Select  . Press  .

When running pumps independently set to  or  . Press  and  as needed to clean.

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).

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



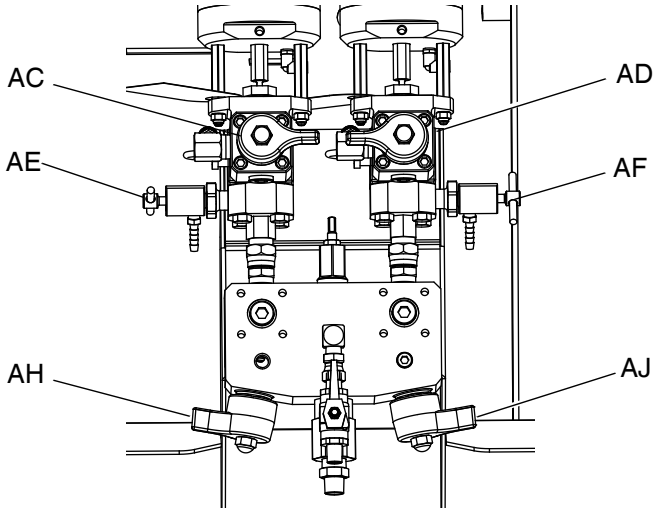
NOTE: When priming or flushing the pumps, it is normal to get cavitation or pump runaway alarms. Clear the alarms , and press again as necessary. These alarms prevent excessive pump speeds that can damage pump packings.

6. Wipe hoppers 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.

8. Press . Move recirculation hoses back to hoppers. Continue recirculating until system 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.

    Press .

12. Follow the **Park Fluid Pump Rods** procedure, page 24.

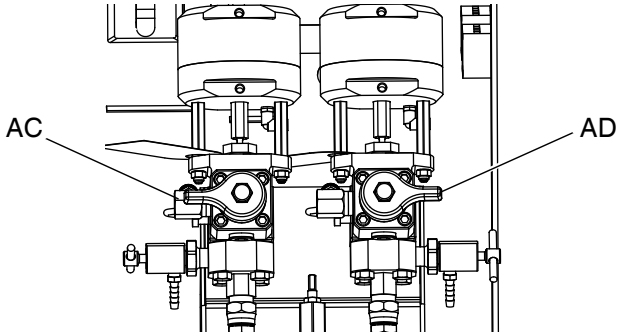
13. Remove pump fluid filters, if installed, and soak in solvent. Clean and replace filter cap. Clean filter o-rings and leave out to dry. Do not leave o-rings in solvent.

14. Close main air valve (E).

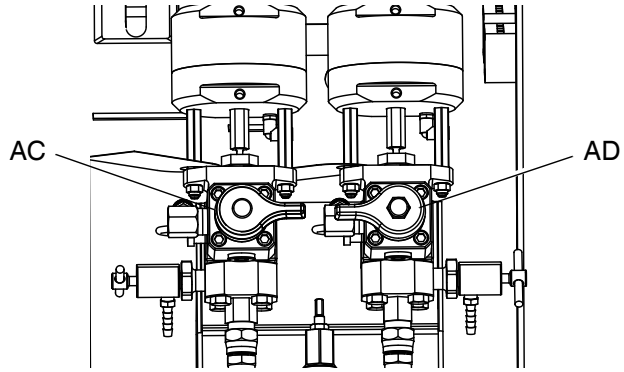
NOTE: Fill A and B pump packing nuts with TSL. Also, always leave some type of fluid, such as solvent or oil, in the system to prevent scale build up. This build up can flake off later. Do not use water.

Park Fluid Pump Rods

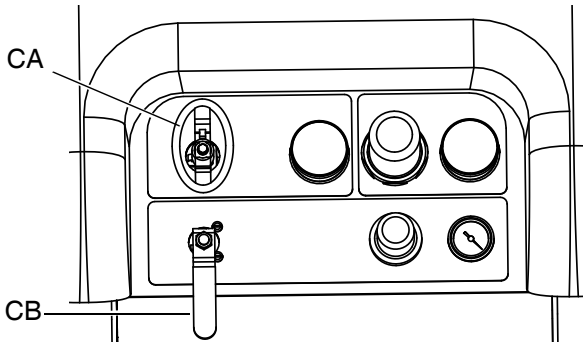
1. Relieve pressure. Follow **Pressure Relief Procedure**, page 17.
2. Press  .
3. Turn recirculation valves (AC, AD) counter clockwise to open them. Each pump will run through recirculation until they reach the bottom stroke, and then stop.



4. When each blue pump LED turns off, close the corresponding circulation valve.



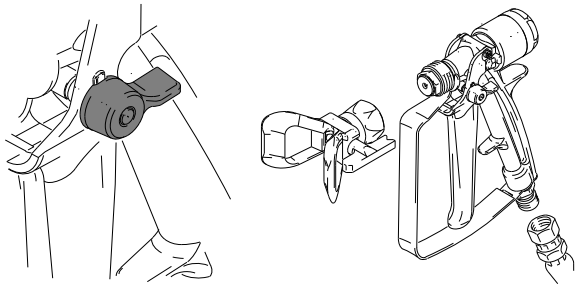
5. Shut off main pump air valve (CA) and air supply to entire system.



Shutdown Entire System

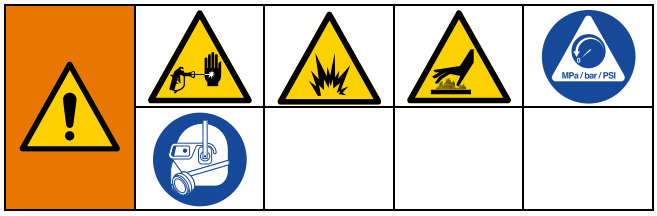
Follow this procedure prior to servicing equipment or shutdown.

1. Follow **Flush Mixed Manifold, Hose, and Spray Gun**, page 18.
2. Engage trigger lock, turn off air regulator, and close main air shutoff valve. Remove spray tip.



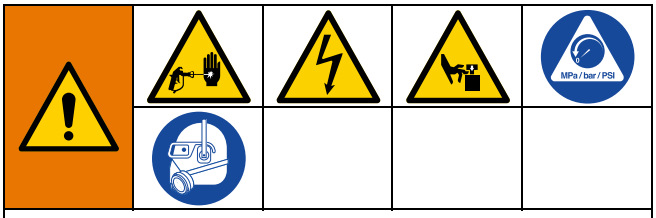
3. If the unit will be shut down for more than 24 hours:
   - Perform the **Park Fluid Pump Rods** procedure.
   - Cap fluid outlets to keep solvent in the lines.
   - Fill pump A and B packing nuts with throat seal liquid (TSL).
4. If the unit will be shut down for more than one week, follow **Empty and Flush Entire System (new sprayer or end of job)** on page 22.

Cleaning Procedure



1. Ensure all equipment is grounded. Follow the **Grounding** procedure on page 15.
2. Ensure the area where the sprayer will be cleaned is well ventilated; and remove all ignition sources.
3. Turn off all heaters and allow equipment to cool.
4. Flush mixed material. Follow the **Flush Mixed Manifold, Hose, and Spray Gun** procedure on page 18.
5. Relieve pressure. Follow the **Pressure Relief Procedure** on page 17.
6. Shutdown sprayer and turn off all power. Follow the **Park Fluid Pump Rods** procedure on page 24.
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.

This equipment stays pressurized until pressure is manually relieved. To help prevent serious injury from pressurized fluid, such as skin injection, splashing fluid and moving parts, follow the **Pressure Relief Procedure** on page 17 when you stop pumping and before cleaning, checking or servicing the equipment.

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 XM sprayer operation manual.

1. Follow **Pressure Relief Procedure**, page 17, before checking or repairing the gun.
2. Check all possible problems and causes before disassembling gun.

Problem	Cause	Solution
Display not lit on system with alternator power supply. No electric power.	Air valve not turned on.	Turn on main air valve to system.
	Air supply pressure too low.	Increase pressure to 30 psi (0.21 MPa, 2.1 bar) or greater.
	Air supply filters plugged. Inlet manifold filter (604) or air regulator (344) filter plugged.	Clean filter bowls; replace filter elements. Page 29.
	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 36.
	Power supply not connected to main board.	Check power connections to main board. See **Detailed Electrical Schematic, XM Sprayer with Wall Power (page 1)**, starting on page 51.
	Display board failure.	Replace display board. Page 34.
Display not lit on system with alternator power. Green light is present on FCM (218) and USB (219), but no green light is present on back of display module (204).	Faulty CAN cable (268). Or CAN cable is disconnected.	Check cable and replace. See **Alternator Assembly**, page 84.
	Faulty display module.	Replace display module. See **User Interface/ Control Box**, page 30.

Problem	Cause	Solution
Display not lit on system with wall power supply. No green light present on back of display module (204).	No electric power. Disconnect “off” or breaker “open.”	Reset main disconnect and breaker.
	No green lights present on display, FCM, or USB module.	Check for 24 Vdc on J1, pins 2 and 3, of power supply. See **Detailed Electrical Schematic, XM Sprayer with Wall Power (page 1)**, starting on page 51. 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 85.
	Green light is present on USB module (219).	Check CAN cable (274). Replace if necessary. See **Wall Power Supply Assembly**, page 85.
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 Interface/Control Box**, page 30.
Pumps do not run when Run Mode is selected and the blue LED is illuminated.	Air pressure to pumps too low.	Increase pressure to 50 psi (0.35 MPa, 3.5 bar) or greater.
	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 30.
	Air pilot valve(s) to motor stuck.	Replace valve(s). Page 40.
	Metering valve(s) not opening.	Service or replace valve(s). Page 40.
	Air motor stalled.	See air motor manual.
Pump Test completes without error, but A or B component has more than 750cc of fluid in beaker.	Incorrect pumps were selected in System Setup screens.	See Appendix A, in your XM sprayer operation manual.
	Air is trapped in fluid due to excessive agitation, circulation, and heat. Fluid is measured by volume when it is compressed under pressure.	Repeat Pump Test with fresh fluid.
		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 **Detailed Electrical Schematic, XM Sprayer with Wall Power (page 1)**, starting on page 51.
	Faulty stop switch or wiring harness.	Check stop switch and wiring harness continuity; stop switch is normally closed circuit. See **Detailed Electrical Schematic, XM Sprayer with Wall Power (page 1)**, starting on page 51.
Fluid valves leaking.	Loose or worn packings.	Tighten packing nut. If leak continues, replace packings.

Problem	Cause	Solution
Paint does not cure consistently.	Ratio not set correctly.	Check that correct ratio is set and set by volume. See XM sprayer operation manual.
	Material not mixing correctly.	Test pump. Make sure mixer is clean; flush as needed. See XM sprayer operation manual.
		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.
	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

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

This equipment stays pressurized until pressure is manually relieved. To help prevent serious injury from pressurized fluid, such as skin injection, splashing fluid and moving parts, follow the **Pressure Relief Procedure** on page 17 and disconnect power from the system before repairing the equipment.

Follow **Park Fluid Pump Rods** procedure, page 24, if service time may exceed pot life time, before servicing fluid components, and before transporting sprayer to a service area.

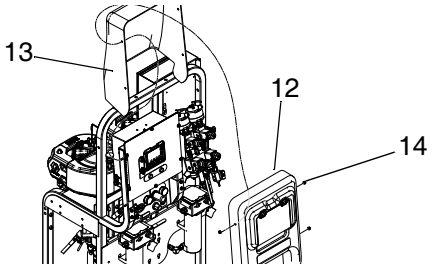
Replace Air Filter Element

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.

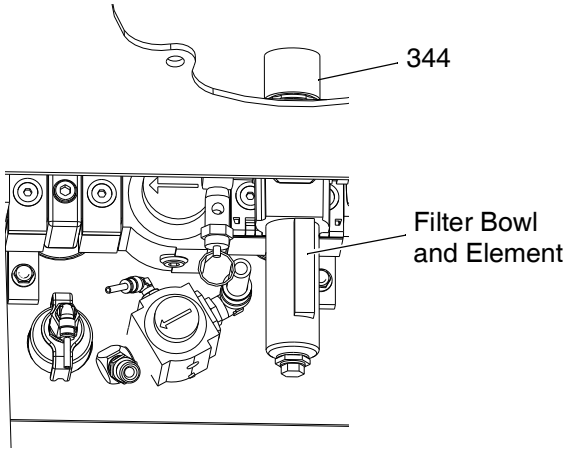
Removing a pressurized air filter bowl could cause serious injury. Do not service air filter until air line is depressurized.

Control Air Regulator Filter

1. Close main air shutoff valve on air supply line and on unit. Depressurize air line.
2. Remove front and rear shrouds (12, 13). Remove four nuts (14) and then shrouds.



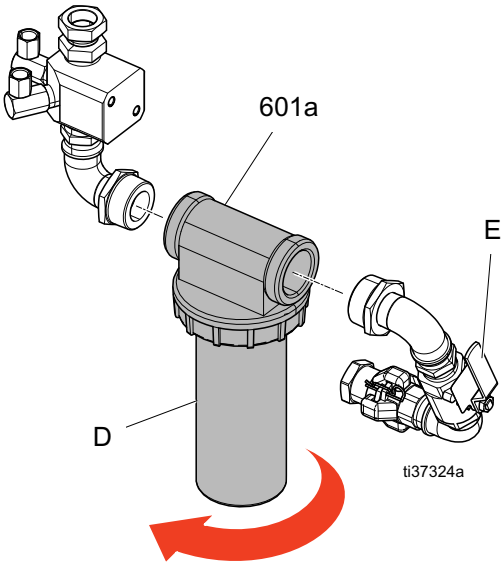
3. Unscrew filter bowl from inlet air regulator (344).
4. Remove and replace element.



5. Screw filter bowl on securely.

Main Air Inlet Manifold Filter

1. Close main air shutoff valve on air supply line and main air valve (E) on unit. Depressurize air line.
2. Unscrew filter bowl (D) from main air valve (E).
3. Remove and replace filter element (601a). See **Air Inlet Manifold (26C689) Parts**, page 88.



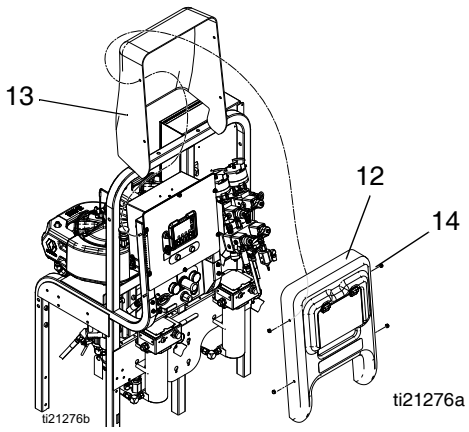
4. Reassemble filter bowl.
5. Replace front and rear shrouds (12, 13) using four nuts (14).

User Interface/Control Box

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

Remove Shroud

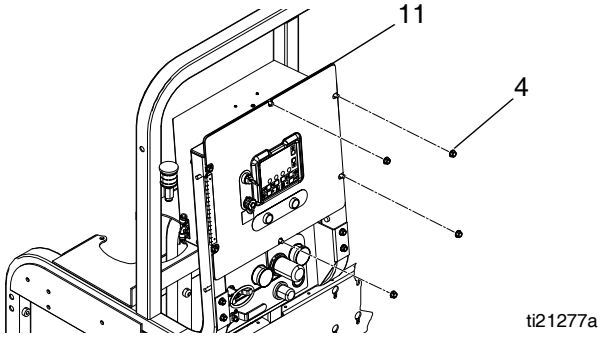
1. Close main air shutoff valve on air supply line and on system.
2. Remove shrouds (12, 13) covering control box. Remove four nuts (14) and front shroud (12) first.



Replace Solenoid Module

Follow this procedure to replace a single solenoid

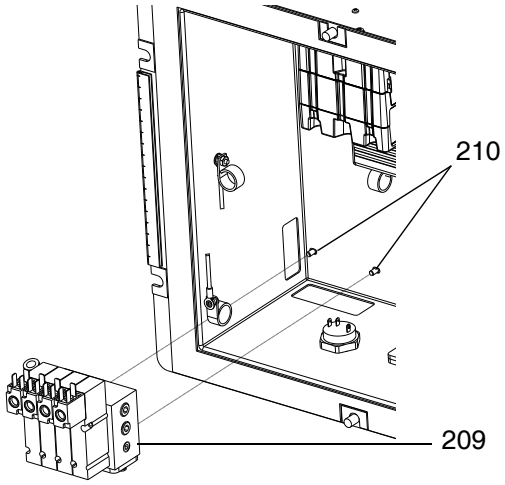
1. Remove shroud. See **Remove Shroud**.
2. Disconnect power.
3. Remove four nuts (4). Leave two nuts on left side of panel tight. Open front panel of control box (11).



4. Disconnect 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 37, for removal instructions.

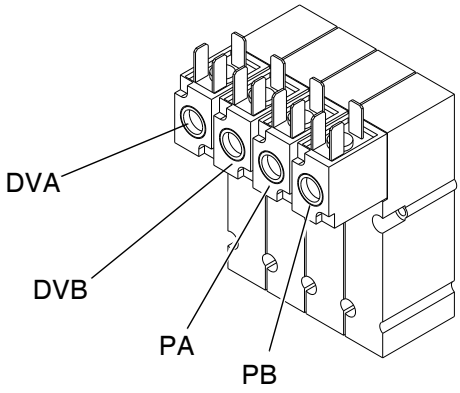
6. Remove two screws (210).



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**.
2. Use software token (206), shown on page 33. See Graco Control Architecture™ Module Programming manual for instructions.

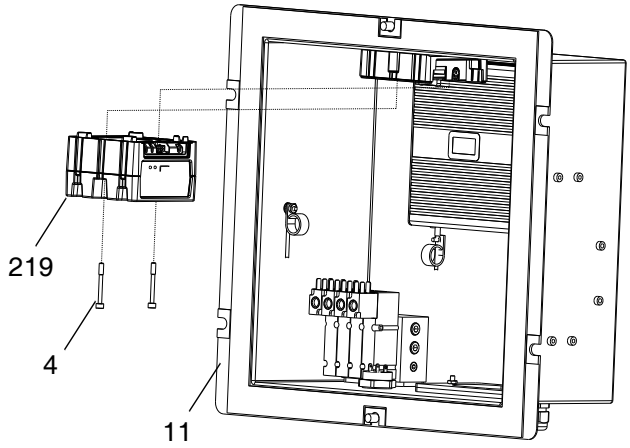
NOTE: Upgrade all modules in the system to the software version on the token, even if you are replacing only one or two modules. Different software versions may not be compatible.

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

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 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.
7. Load software. See **Update USB Module Software**.

Update Fluid Control Module (FCM) Software

1. Remove shroud. See **Remove Shroud**.
2. 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.

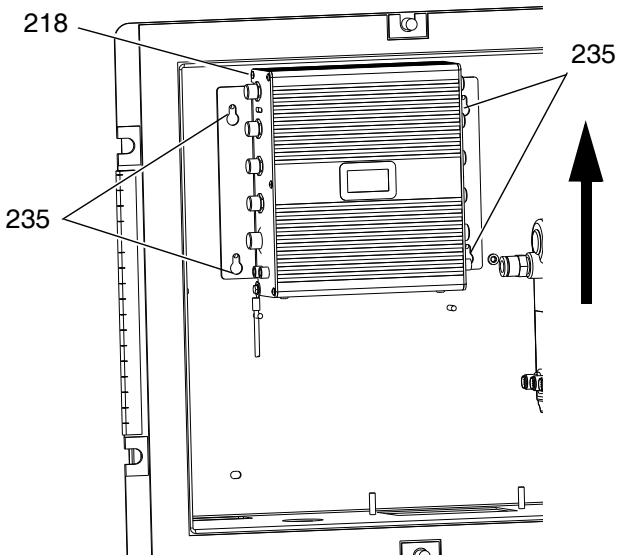
All data in the module may be reset to factory default settings. Record all settings and user preferences before the upgrade, for ease of restoring them following the upgrade.

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.

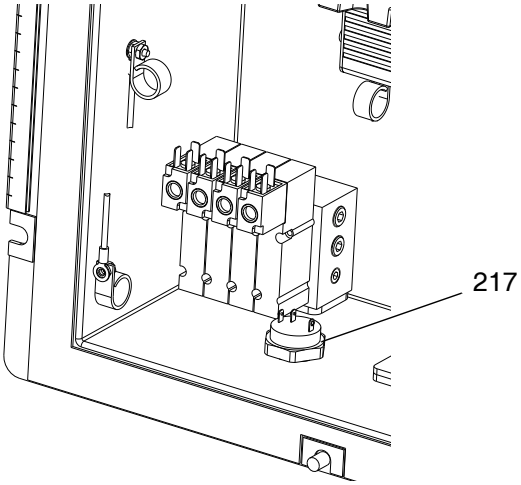
1. Remove shroud. See **Remove Shroud**.
2. Disconnect power.
3. Remove four nuts (4); leave two nuts on left side of panel tight. Open front panel of control box (11).
4. Remove all cables from FCM (218). Take note of cable locations.
5. Loosen four mounting screws (235).



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**.
9. 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 **Parts**, page 59.
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.

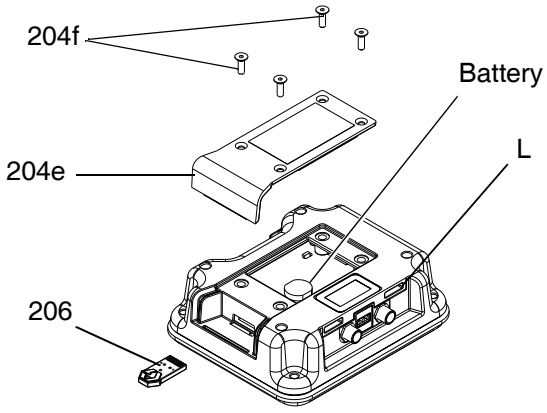
Use software token (206). See Graco Control Architecture™ Module Programming manual for instructions.

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.

6. 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).

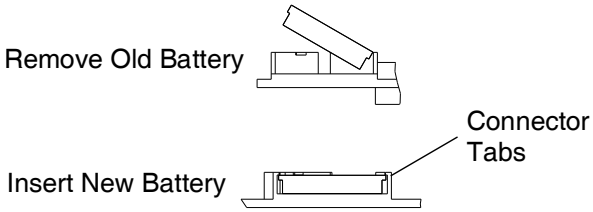
Replace Display Battery

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

NOTICE

To avoid damaging circuit board, wear a grounding strap.

1. Perform steps 1-4 under **Upgrade Software** section, page 33.
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.

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

Replace Display

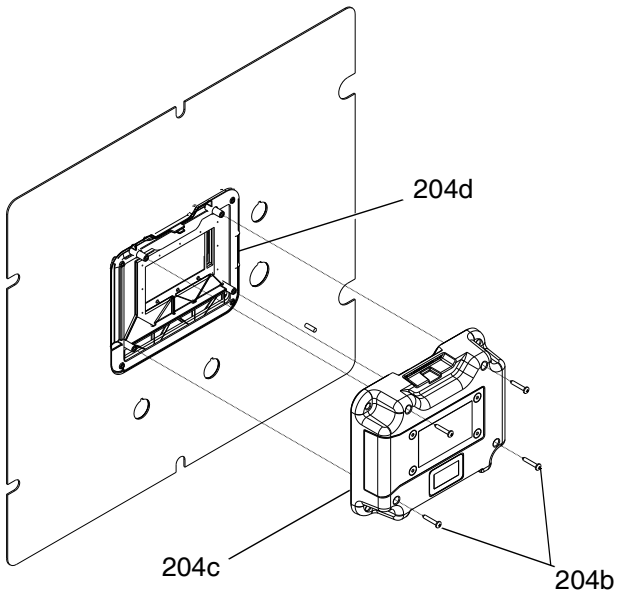
NOTE: Order kit 257484 for replacement.

NOTICE

To avoid damaging circuit board, wear a grounding strap.

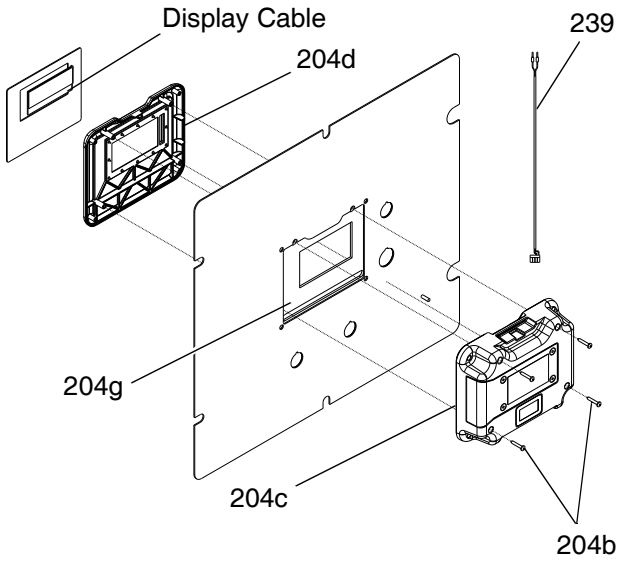
1. Remove shroud. See **Remove Shroud**.
2. Disconnect power.
3. Remove four nuts (4); leave two nuts on left side of panel tight. Open front panel of control box (11).
4. Disconnect CAN cable from display module.
5. Remove four screws (204b) from rear display panel (204c) while holding front display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

10. Carefully connect display cables and key switch cable to new circuit board.
11. Install new rear display panel (204c) and secure with four screws (204b). Ensure key switch cable protrudes from opening in top of display module.
12. 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**, 33.
16. Replace shroud.
17. Configure system settings as they were set on old display. See your XM sprayer operation manual for instructions.

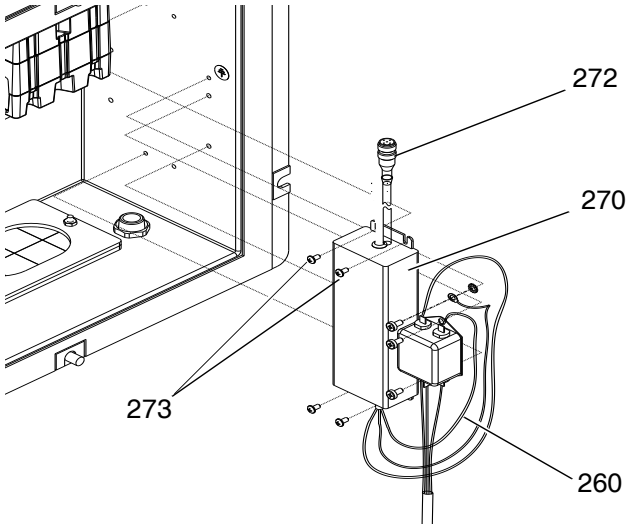
Replace Front Panel

See **Replace Display**, page 34, for instructions

Wall Power Supply Control Components

Replace Power Supply Module

1. 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 incoming power cable connections to power supply module and ground lead (260) from control box.
5. Disconnect power supply cable (272) from FCM (218). See **Fluid Control Assembly** on page 40.
6. Remove four screws (273) holding power supply module (270) bracket in place.



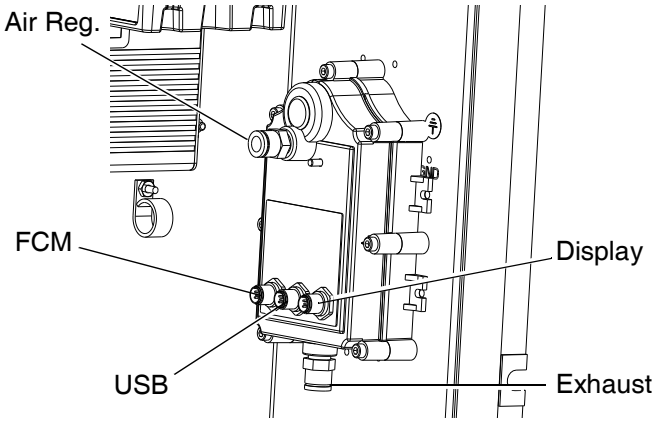
7. Remove and replace power supply module (270).
8. Follow steps in reverse order to install new power supply module.

Alternator Power Supply Control Components

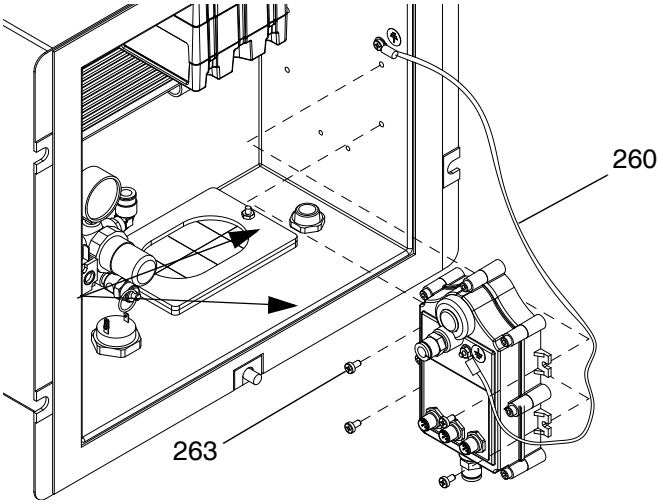
Alternator Module Repair

Alternator Repair Kit 257147 is available to replace turbine bearings.

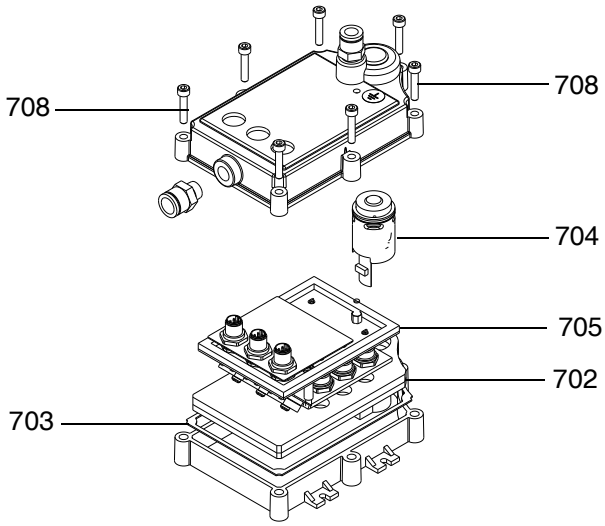
1. Remove shroud. See **Remove Shroud**.
2. Disconnect main power.
3. Remove four nuts (4); leave two nuts on left side of panel tight. Open front panel of control box (11).
4. Disconnect output power cable connections from alternator module and ground lead from control box.
5. Disconnect power supply 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.
9. Replace turbine (704) if necessary. Lightly lubricate turbine o-ring to ease alternator housing reassembly.



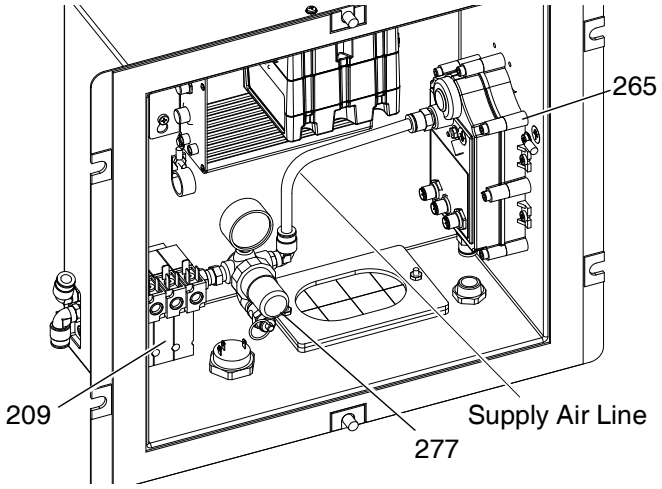
10. Replace gasket (702) and/or circuit board assembly (705) if damaged.
11. Follow steps in reverse order to reassemble alternator regulator assembly and to reconnect power cables and air lines. Refer to **Parts**, page 59.

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

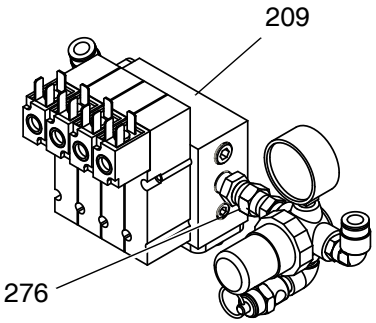
12. Start machine. Check control voltage on Alarm information screen. Voltage should be between 10-14 Vdc.

Replace Alternator Regulator

1. Remove shroud. See **Remove Shroud**, page 30
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).



6. Repair or replace alternator regulator parts as necessary. See **Alternator Assembly**, page 84, 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 30.
2. Disconnect air motor air lines and system air line.
3. Remove four nuts (7) from front of air control bracket (301). See **XM Plural-Component Sprayers Common Parts** on page 74.
4. Pull out assembly.
5. Follow steps in reverse order to reinstall air control assembly.

Replace Solvent Pump Ball Valve

1. Remove shroud. See **Remove Shroud**, page 30.
2. Disconnect air motor air lines and system air line.
3. Remove four nuts (7) from front of air control bracket (301).
4. Pull out assembly.
5. Remove two screws (329) from front of air control bracket (301).
6. Disconnect air line (333) running to ball valve assembly (328).
7. Replace with new ball valve assembly. See **Air Controls Module (26C688) Parts**, page 86.
8. Follow steps in reverse order to reassemble.

Replace Solvent Air Regulator

1. Remove shroud. See **Remove Shroud**, page 30.
2. Disconnect air motor air lines and system air line.
3. Remove four nuts (7) from front of air control bracket (301).
4. Pull out assembly.
5. Remove regulator nut (331), and disconnect air lines (327, 333) running to regulator (322).
6. Remove regulator assembly and replace with new. See **Air Controls Module (26C688) Parts**, page 86.
7. Follow steps in reverse order to reassemble.

Replace System Air Regulator

1. Remove shroud. See **Remove Shroud**, page 30.
2. Disconnect air motor air lines and system air line.
3. Remove four nuts (7) from front of air control bracket (301).
4. Pull out assembly.
5. Remove regulator nut (326) and disconnect system air line.
6. Remove the T-handle on ball valve (337).
7. Remove four nuts (320) from the back of the air controls to remove the air control assembly.
8. Remove regulator assembly (345) from manifold (303, 305) and replace. See **Air Controls Module (26C688) Parts**, page 86.
9. Follow steps in reverse order to reassemble.

Replace Solenoid Inlet Air Regulator

1. Remove shroud. See **Remove Shroud**, page 30.
2. Disconnect air motor air lines and system air line.
3. Remove four nuts (7) from front of air control bracket (301).
4. Pull out assembly.
5. Disconnect air line.
6. Remove the T-handle on ball valve (337).
7. Remove four nuts (320) from the back of the air controls to remove the air control assembly.
8. Remove regulator assembly (309) from swivel union (304) and replace with new. See **Air Controls Module (26C688) Parts**, page 86.
9. Follow steps in reverse order to reassemble.
10. Set new air pressure regulator to 80-85 psi.(0.55-0.58 MPa, 5.5-5.8 bar).

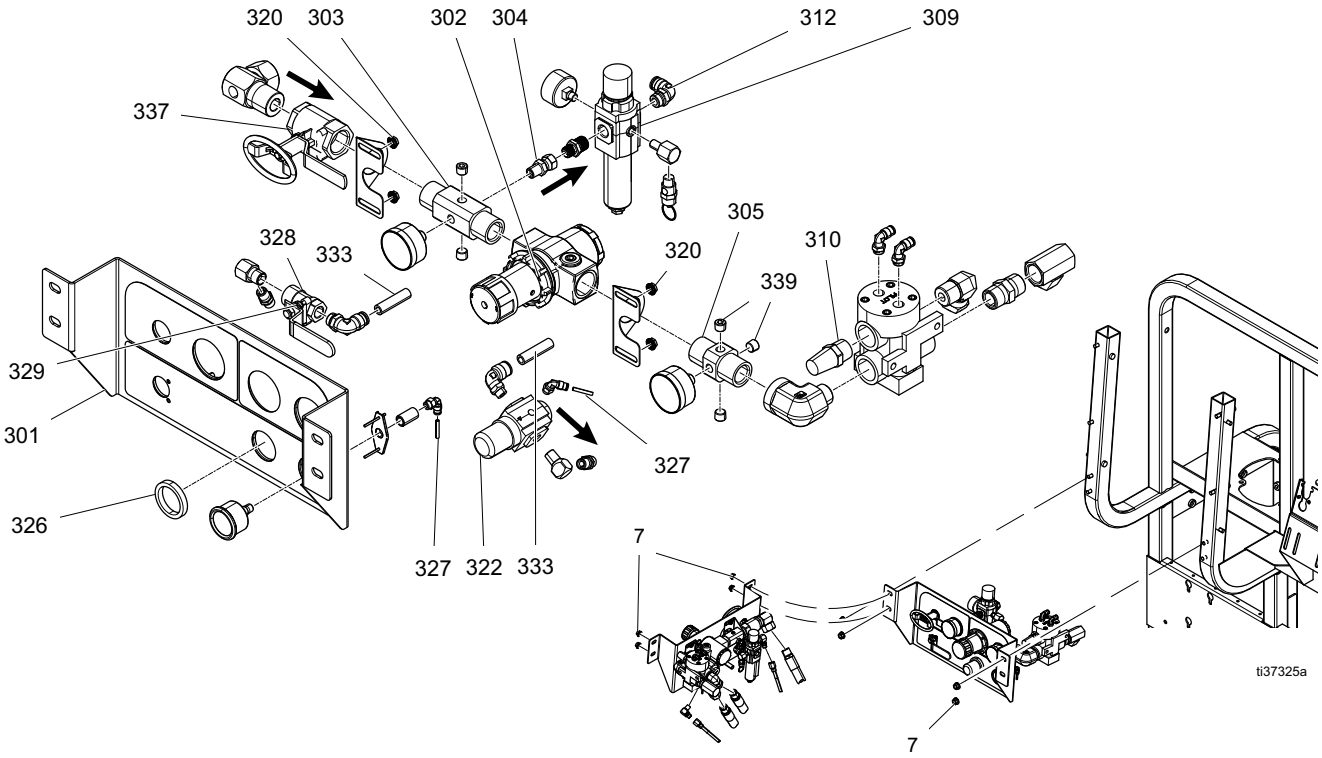
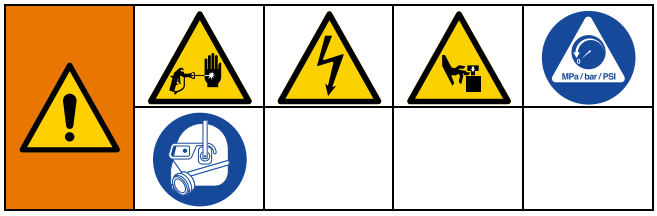


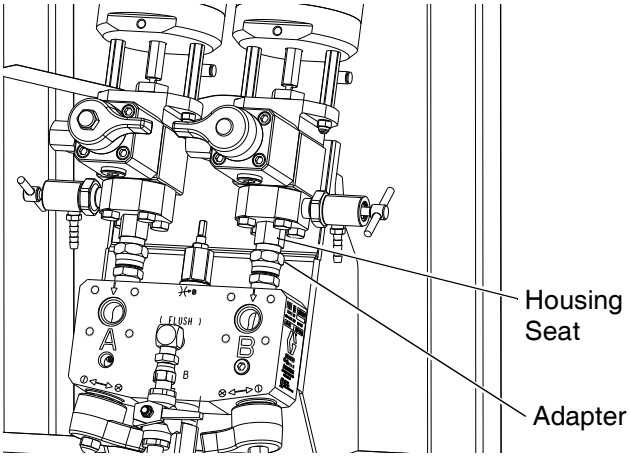
FIG. 1 Air Controls

Fluid Control Assembly

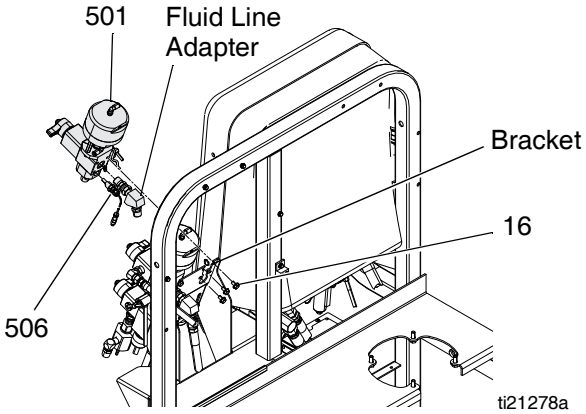


Dosing Valve Assembly

1. Follow **Pressure Relief Procedure**, page 17.
2. Disconnect all fluid lines from dosing valve assembly (8). See **XM Plural-Component Sprayers Common Parts** on page 74.
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.



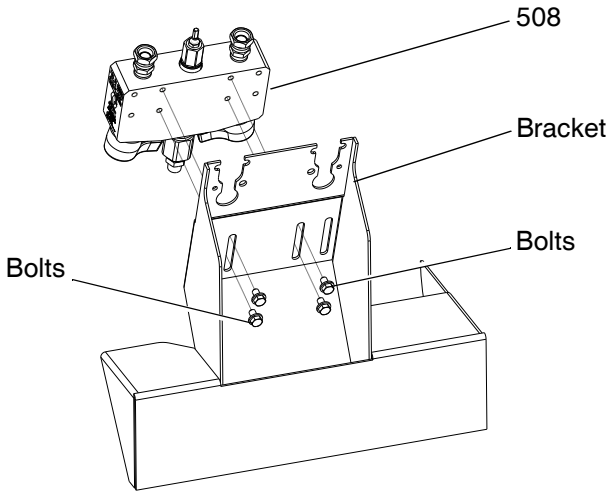
5. Disconnect RTD (506) from cord grip. Disconnect pressure sensor (507) and fluid line adapter from each dosing valve (501).



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

Mix Manifold Assembly

1. Follow **Pressure Relief Procedure**, page 17.
2. Disconnect fluid line and solvent lines from mix manifold assembly.
3. Loosen four bolts securing mix manifold (508) to bracket.

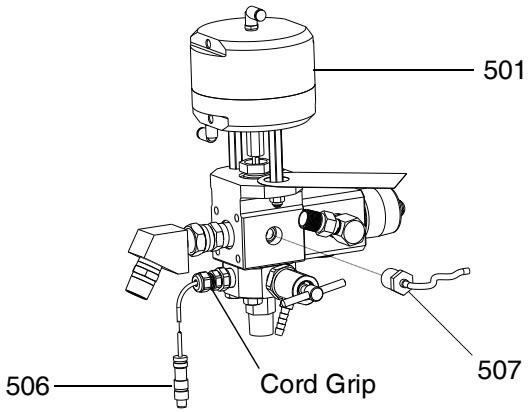


4. Unscrew dosing valve housing seats from adapters on mix manifold.
5. Remove four bolts securing mix manifold (508) to bracket.
6. Remove mix manifold assembly (508) from bracket. See mix manifold manual for service and repair instructions.
7. Follow steps in reverse order to reassemble mix manifold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

Sensors

Replace Fluid Pressure Sensor

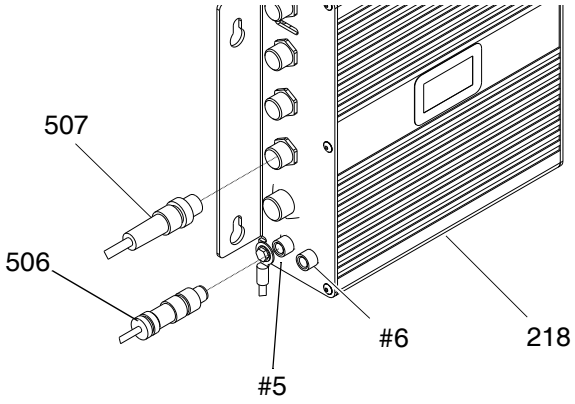
1. Close main air shutoff valve on air supply line and on system.
2. Relieve fluid pressure. See **Pressure Relief Procedure**, page 17.
3. Open control box cover. See **User Interface/Control Box**, page 30.
4. Disconnect pressure sensor (507) from FCM (218).
5. Disconnect fluid pressure sensor (507) from dosing valve (501).



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

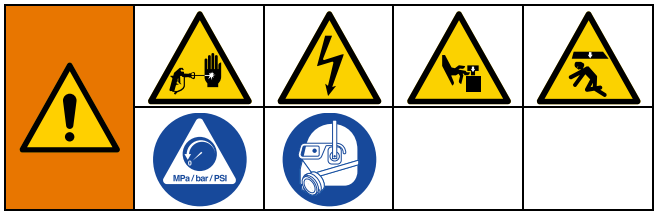
Temperature (RTD) Sensor

1. Close main air shutoff valve on air supply line and on system.
2. Relieve fluid pressure. See **Pressure Relief Procedure**, page 17.
3. Open control box cover. See **User Interface/Control Box**, page 30.
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

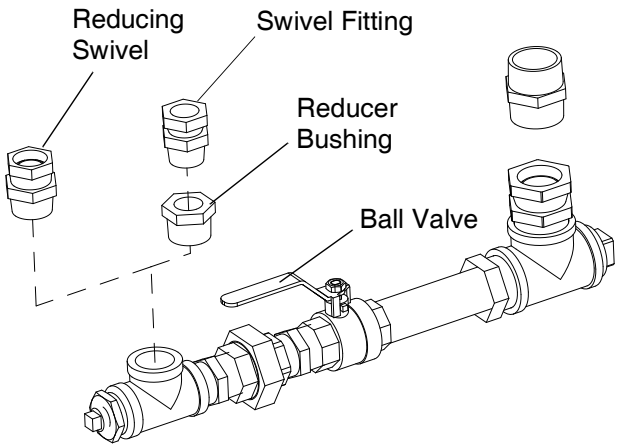


Prior to servicing the pump assembly you must first remove either the entire pump assembly or the displacement pump and air motor individually.

Remove Pump Assembly

1. Follow **Pressure Relief Procedure**, page 17.
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.



Refer to your Double Wall Stainless Steel Hopper manual to service or repair the fluid inlet assembly.

4. Disconnect air motor.
   a. Disconnect sensor cable, air line, and ground wire from air motor.
   b. 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.

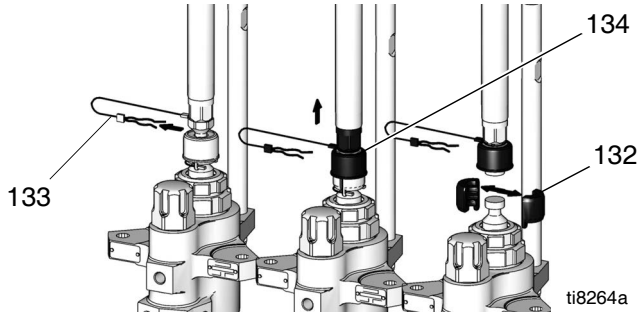
Do not lift pump assembly by the lift ring when the total weight of the pump assembly exceeds 550 lb (250 kg).

6. Refer to your Xtreme Displacement Pump manual to service or repair the displacement pump. Refer to your XL Air Motor manual to service or repair the air motor.
7. Follow steps in reverse order to reinstall pump assembly.

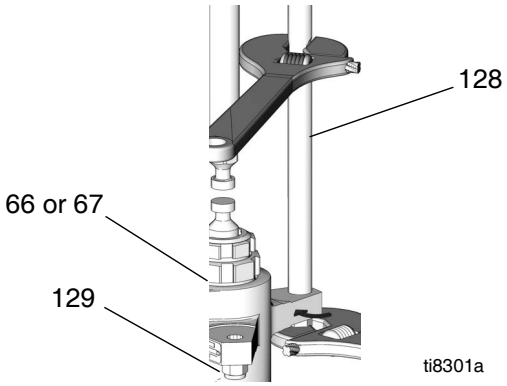
Remove Displacement Pump

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

1. Follow **Pressure Relief Procedure**, page 17.
2. Disconnect displacement pump from fluid inlet assembly. See steps 2 and 3 under **Remove Pump Assembly**, page 42.
3. Remove clip (133), and slide coupling cover (134) up to remove coupling (132).



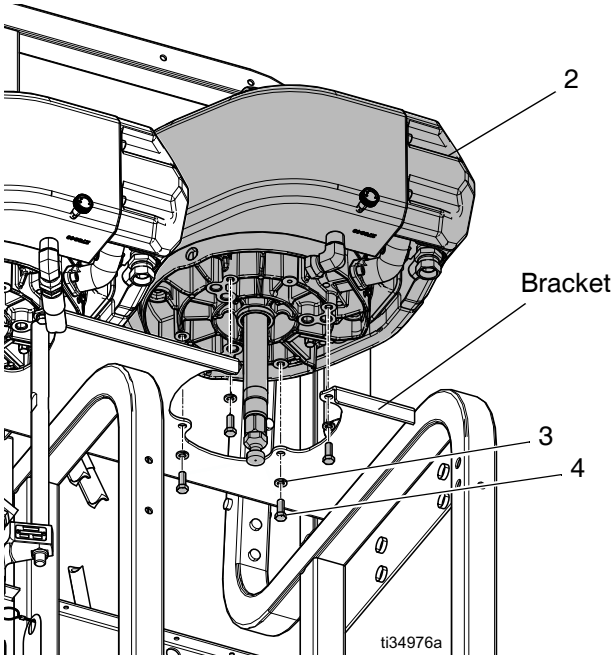
4. Use a wrench to hold the tie rod flats to keep the rods from turning. Unscrew the nuts (129) from the tie rods (128) and carefully remove the displacement pump (66 or 67).



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

Remove Air Motor

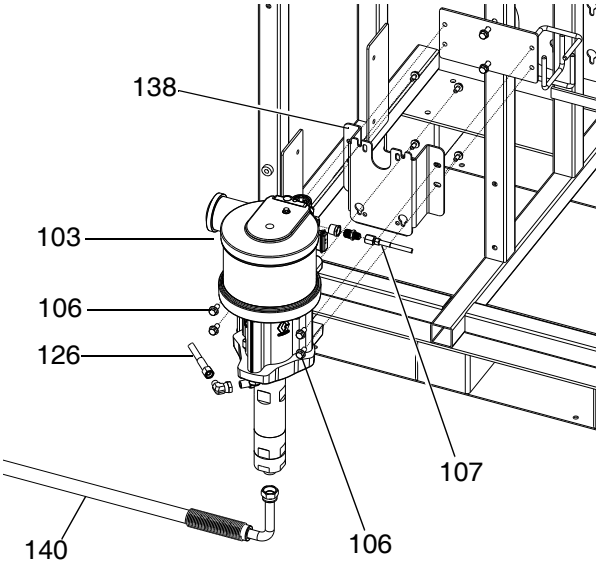
1. Follow **Pressure Relief Procedure**, page 17.
2. Disconnect displacement pump from air motor. See steps 2 and 3 under **Remove Displacement Pump**, page 43.
3. Disconnect sensor cable, air line, and ground wire from air motor.
4. Remove mounting screws (4) and washers (3) holding air motor (2) to mounting bracket.



5. Refer to your XL Air Motor manual 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 17.
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 your Merkur Pump Assembly manual to service or repair the solvent pump.
5. Follow steps in reverse order to reinstall solvent pump.

Fluid Heaters

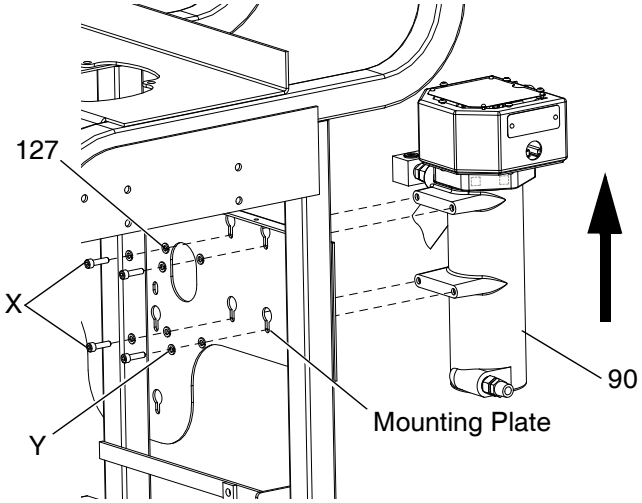
Wiring for explosion-proof heaters is not provided. See your Viscon HF or Viscon HP heater manual for wiring, repair, and parts information for explosion-proof heaters.

Service and Repair

1. Follow **Pressure Relief Procedure**, page 17.
2. Disconnect fluid lines and electrical wiring from fluid heater.
3. Refer to your Viscon HF heater manual to service or repair heater.
4. Reconnect fluid lines and electrical wiring.

Replace

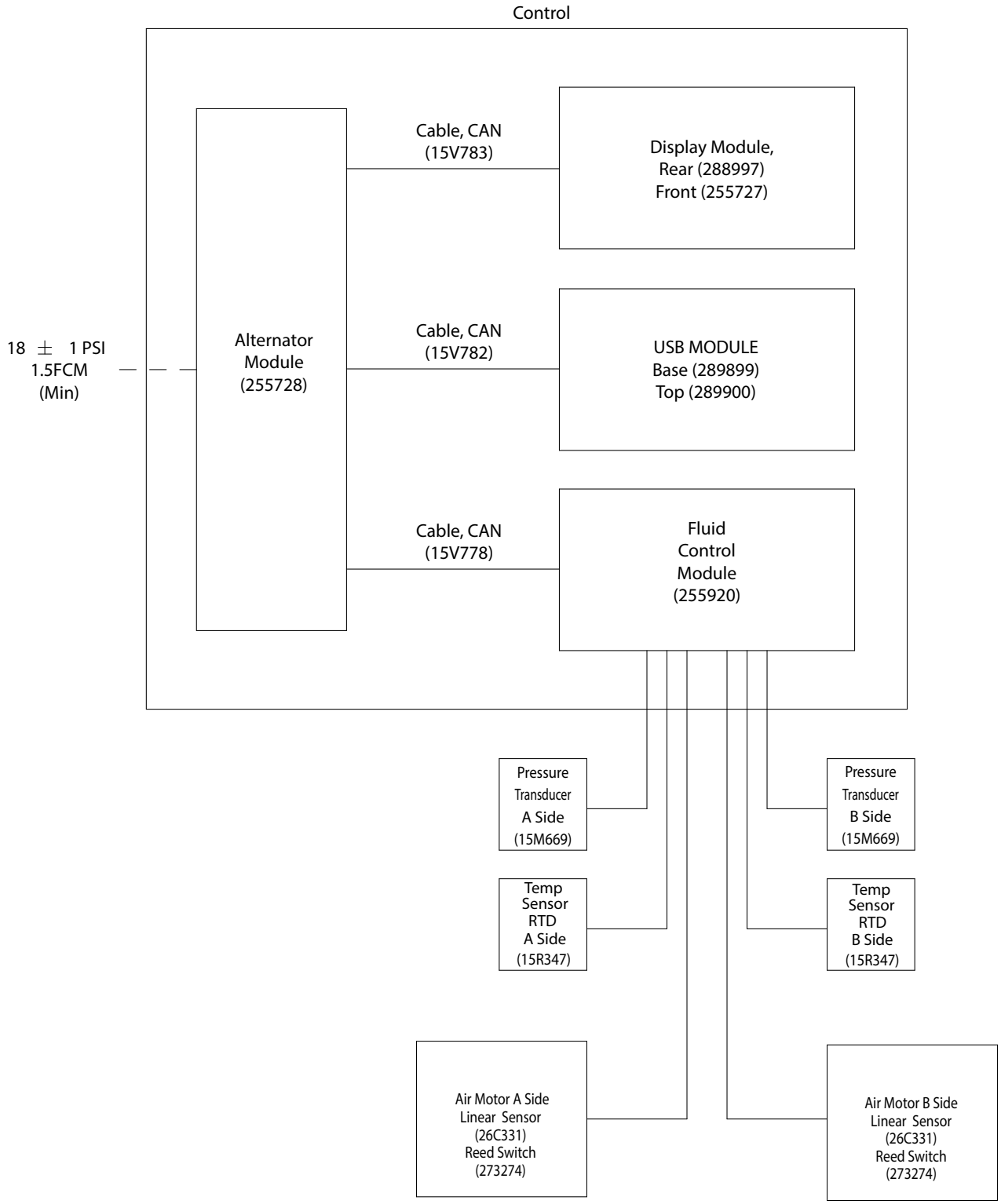
1. Follow steps 1 - 2 in **Service and Repair**.
2. Loosen four mounting screws (X), lock washers (Y), and plain washers (127) on back of heater (90). Slide heater up and remove from mounting plate.



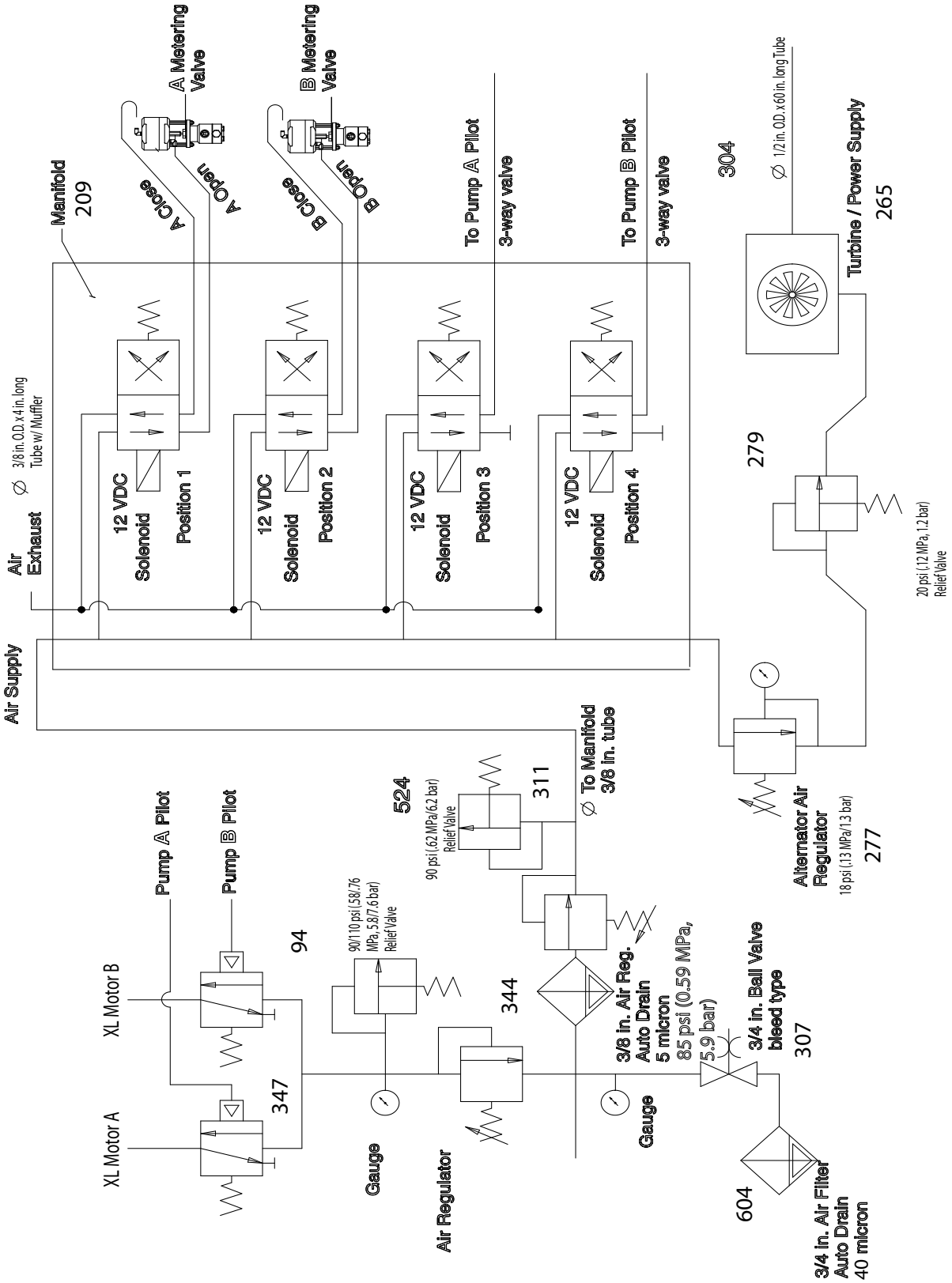
3. Replace heater. Follow steps in reverse order to install new heater.

Electrical Schematics

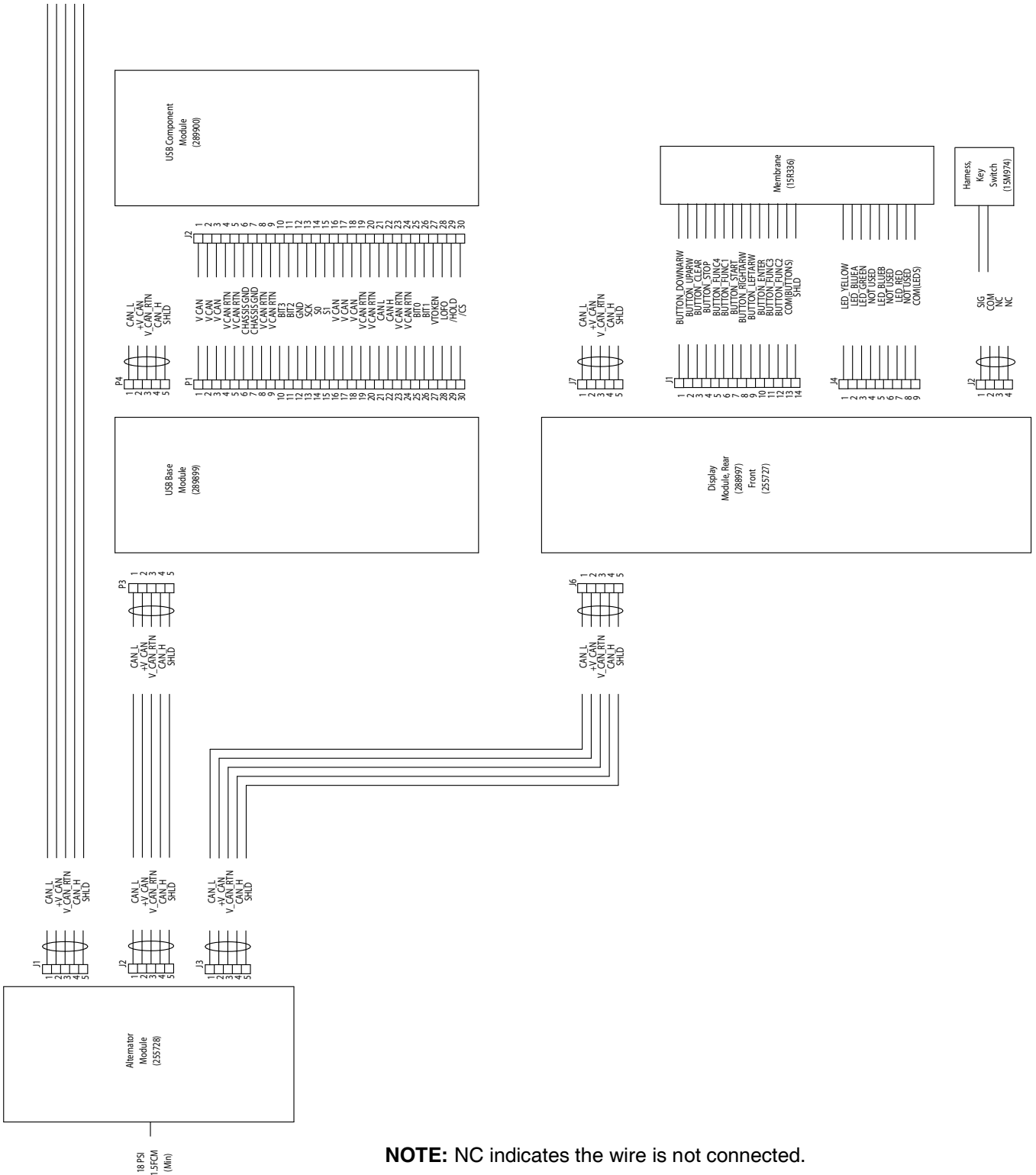
Simplified Electrical Schematic, XM Sprayer with Alternator



Simplified Pneumatic Schematic, XM Sprayer with Alternator

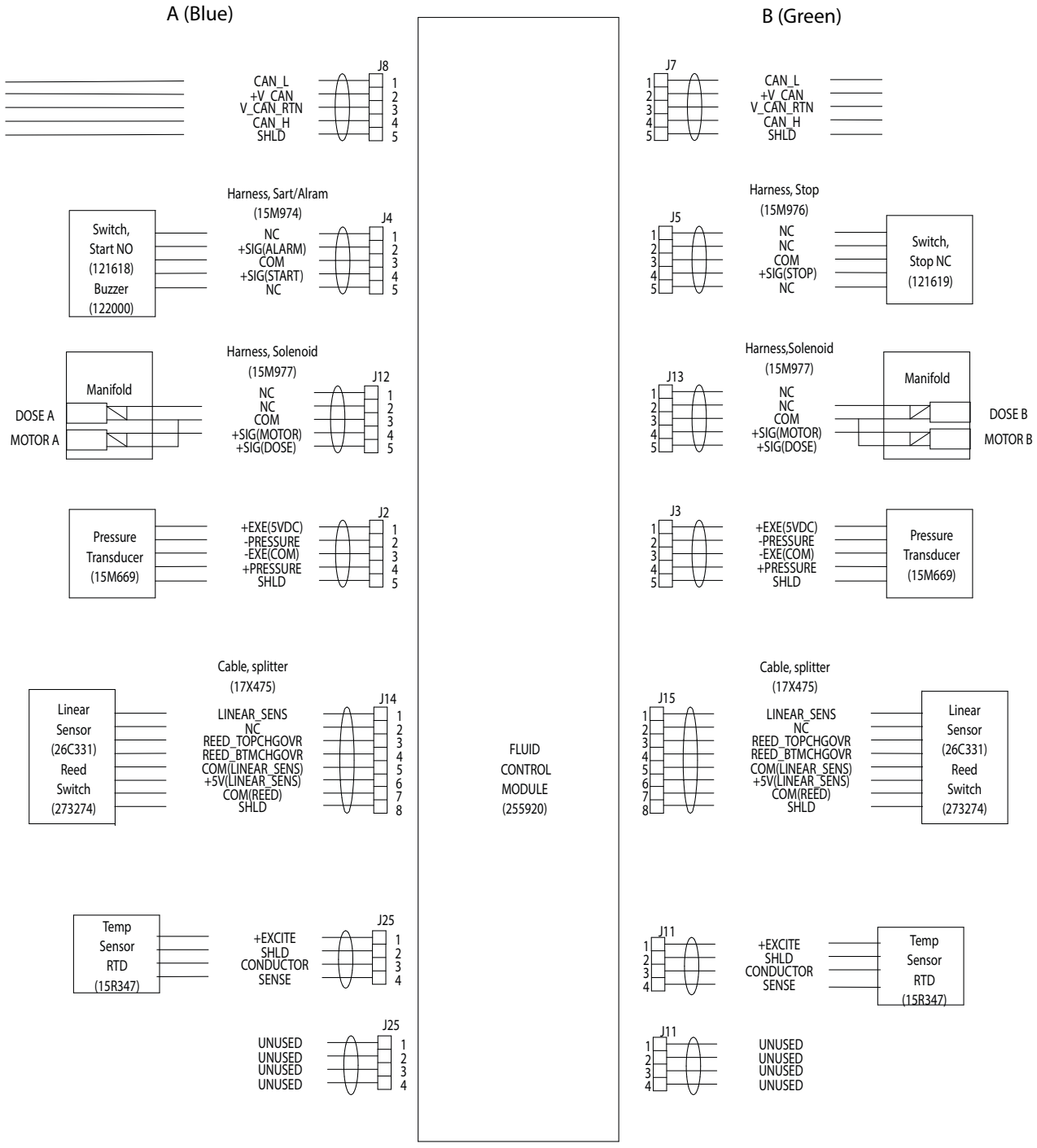


Detailed Electrical Schematic, XM Sprayer with Alternator (page 1)



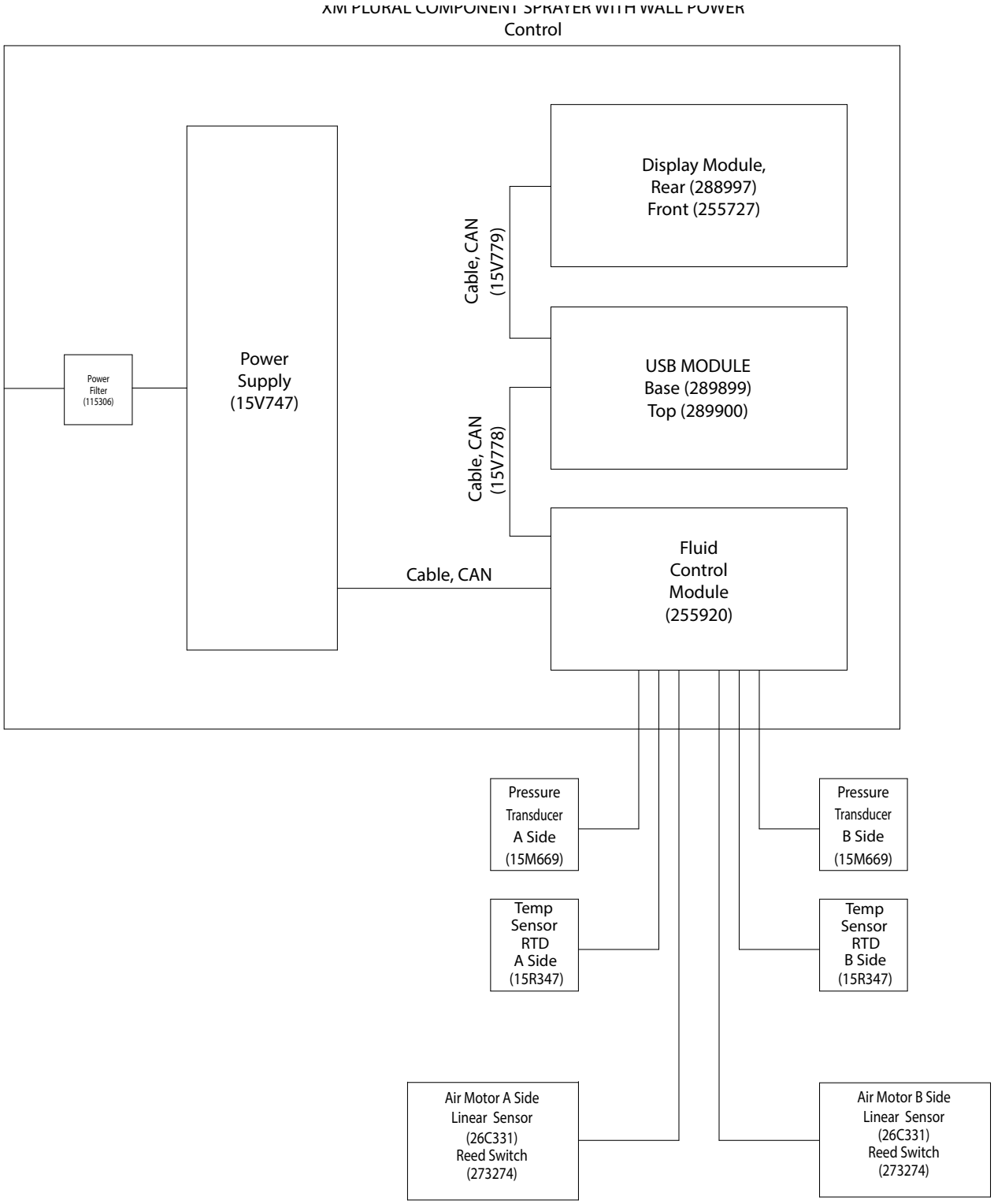
NOTE: NC indicates the wire is not connected.

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

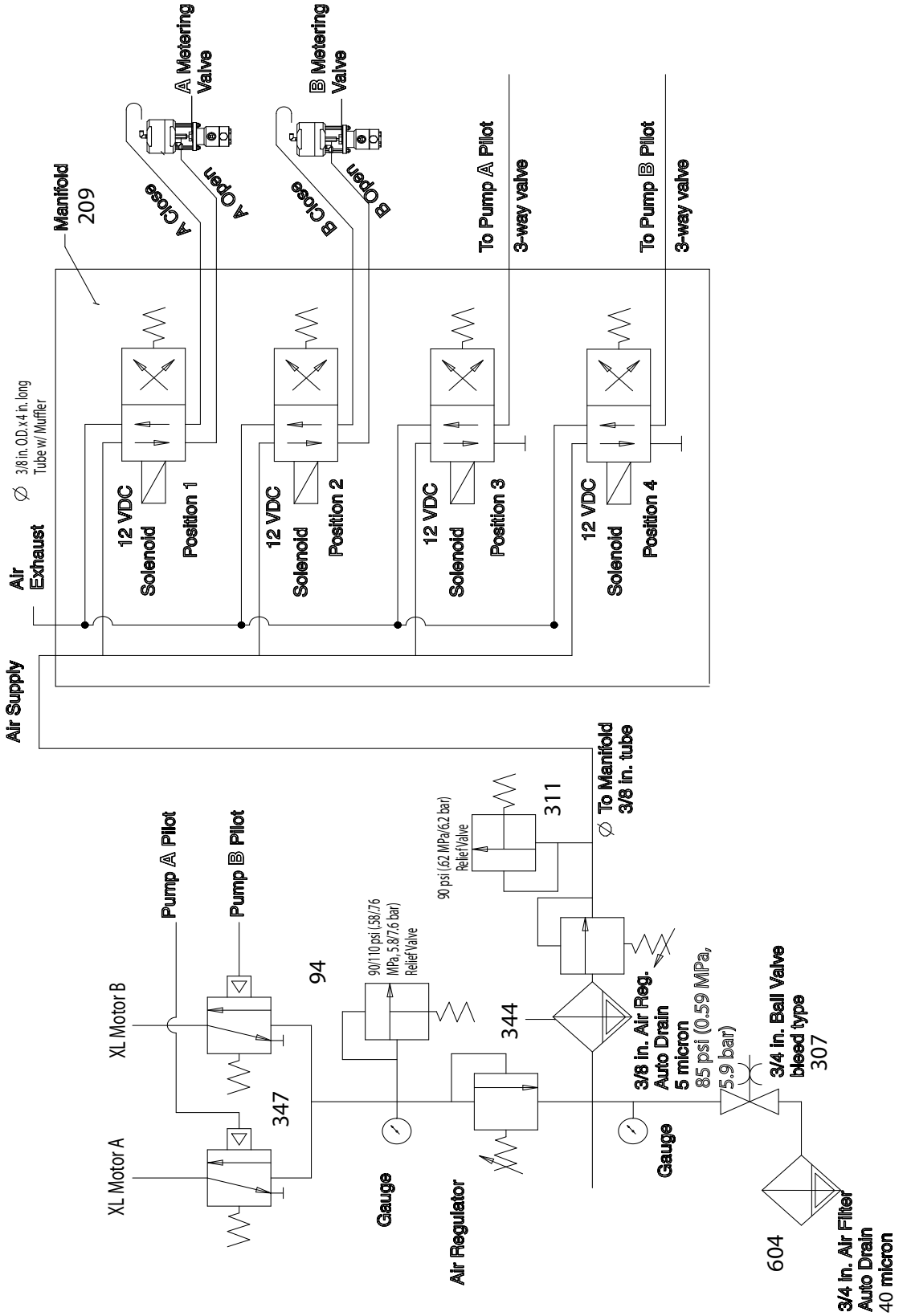


NOTE: NC indicates the wire is not connected.

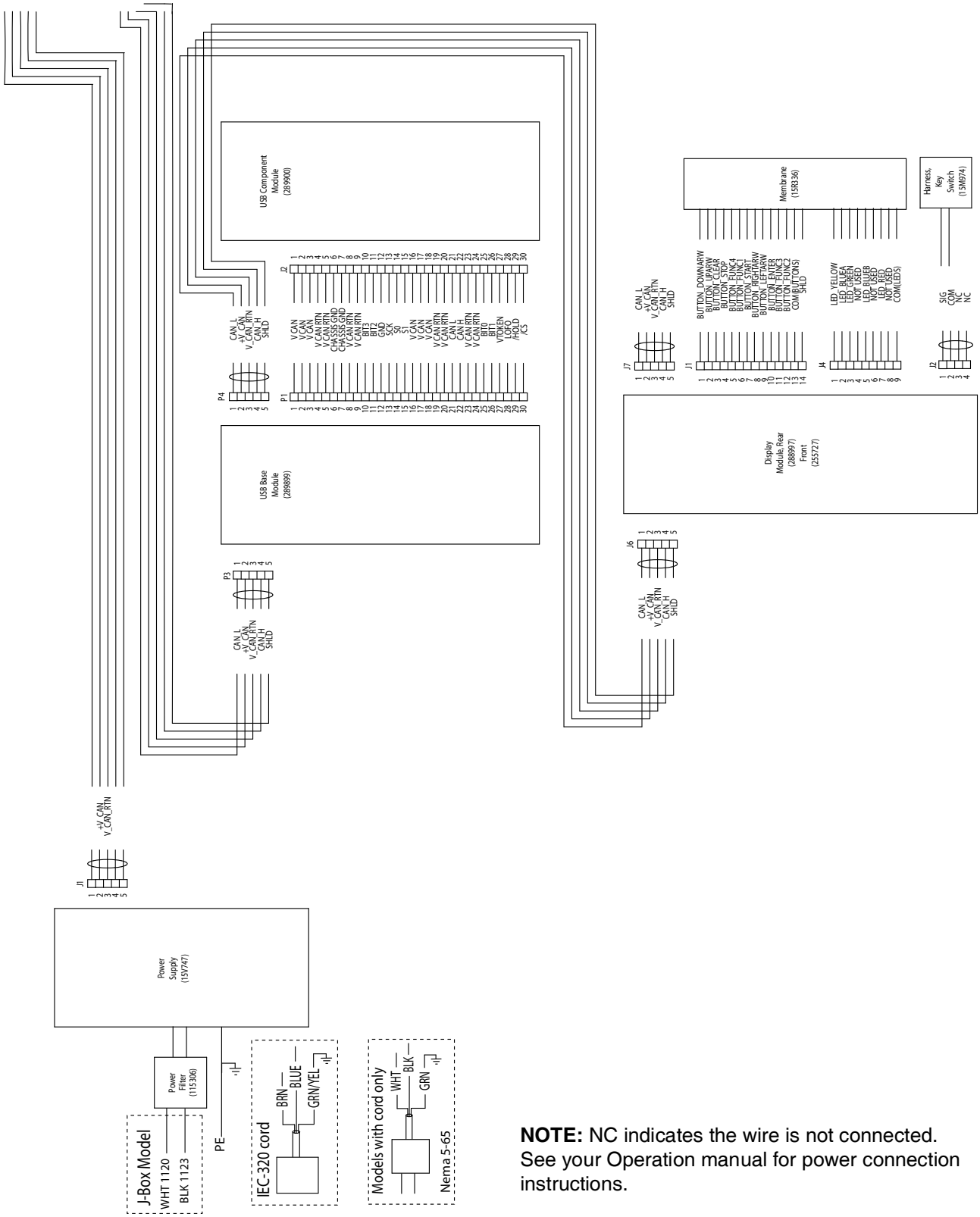
Simplified Electrical Schematic, XM Sprayer with Wall Power



Simplified Pneumatic Schematic, XM Sprayer with Wall Power

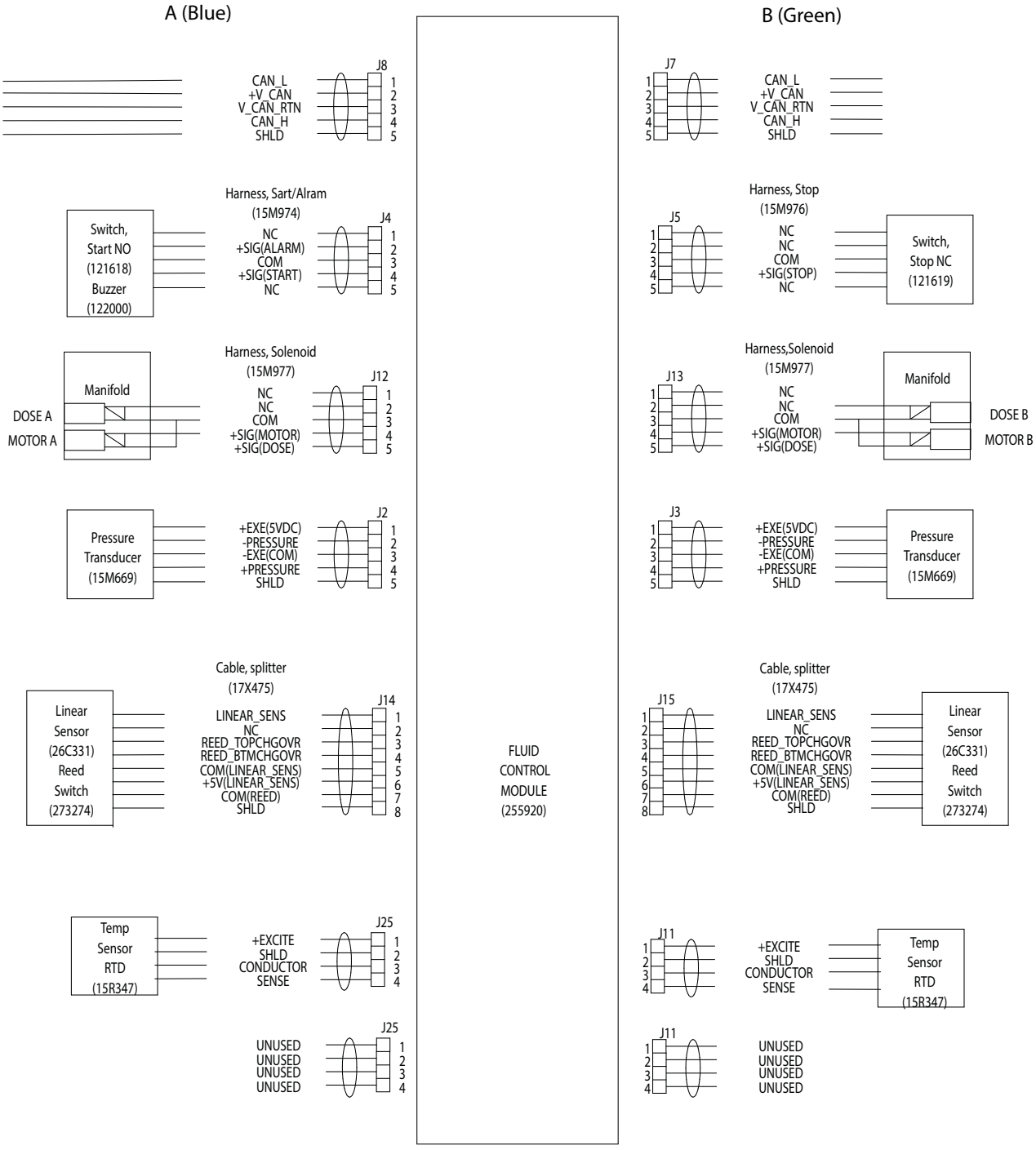


Detailed Electrical Schematic, XM Sprayer with Wall Power (page 1)



NOTE: NC indicates the wire is not connected. See your Operation manual for power connection instructions.

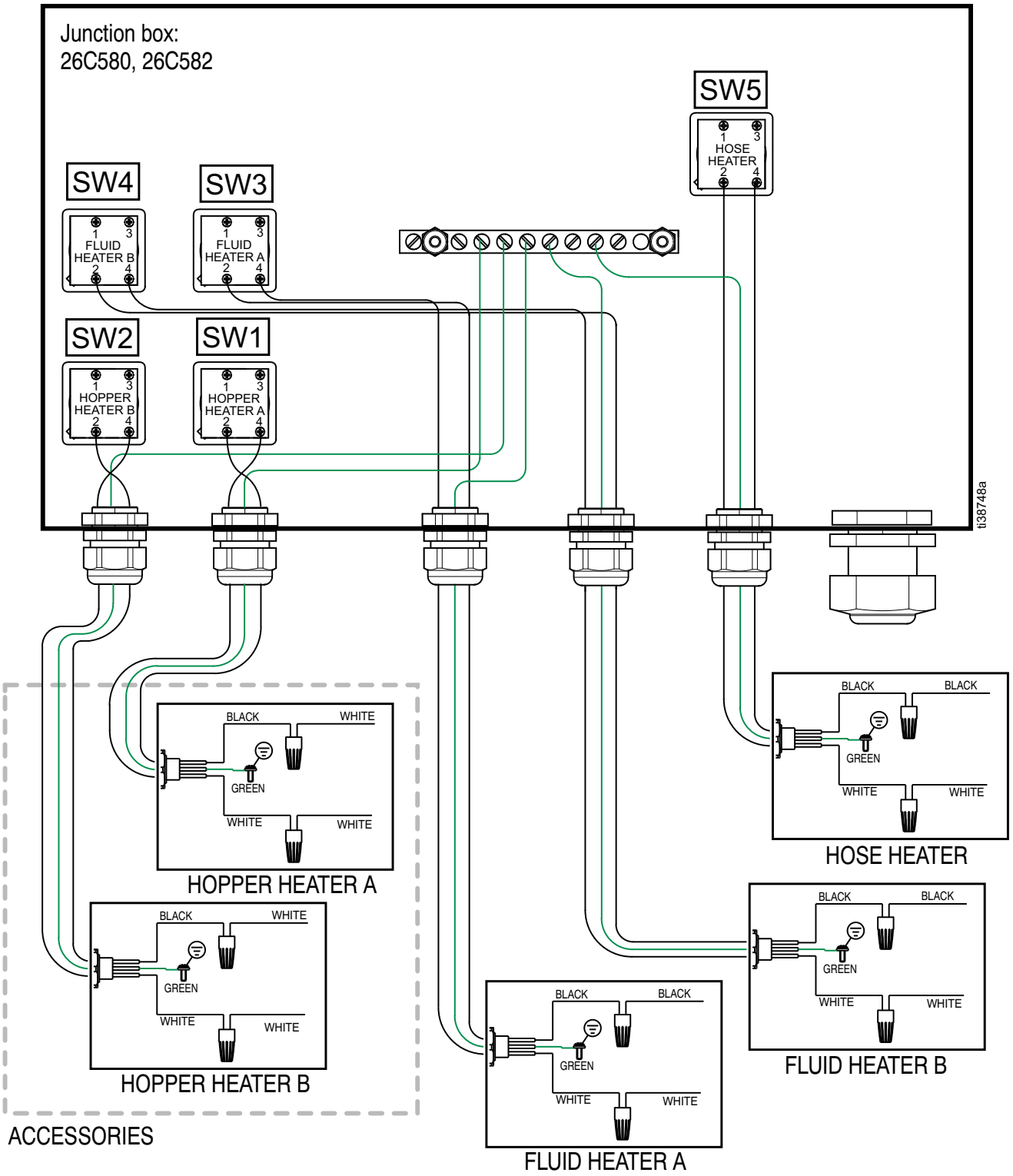
Detailed Electrical Schematic, XM Sprayer with Wall Power (page 2)



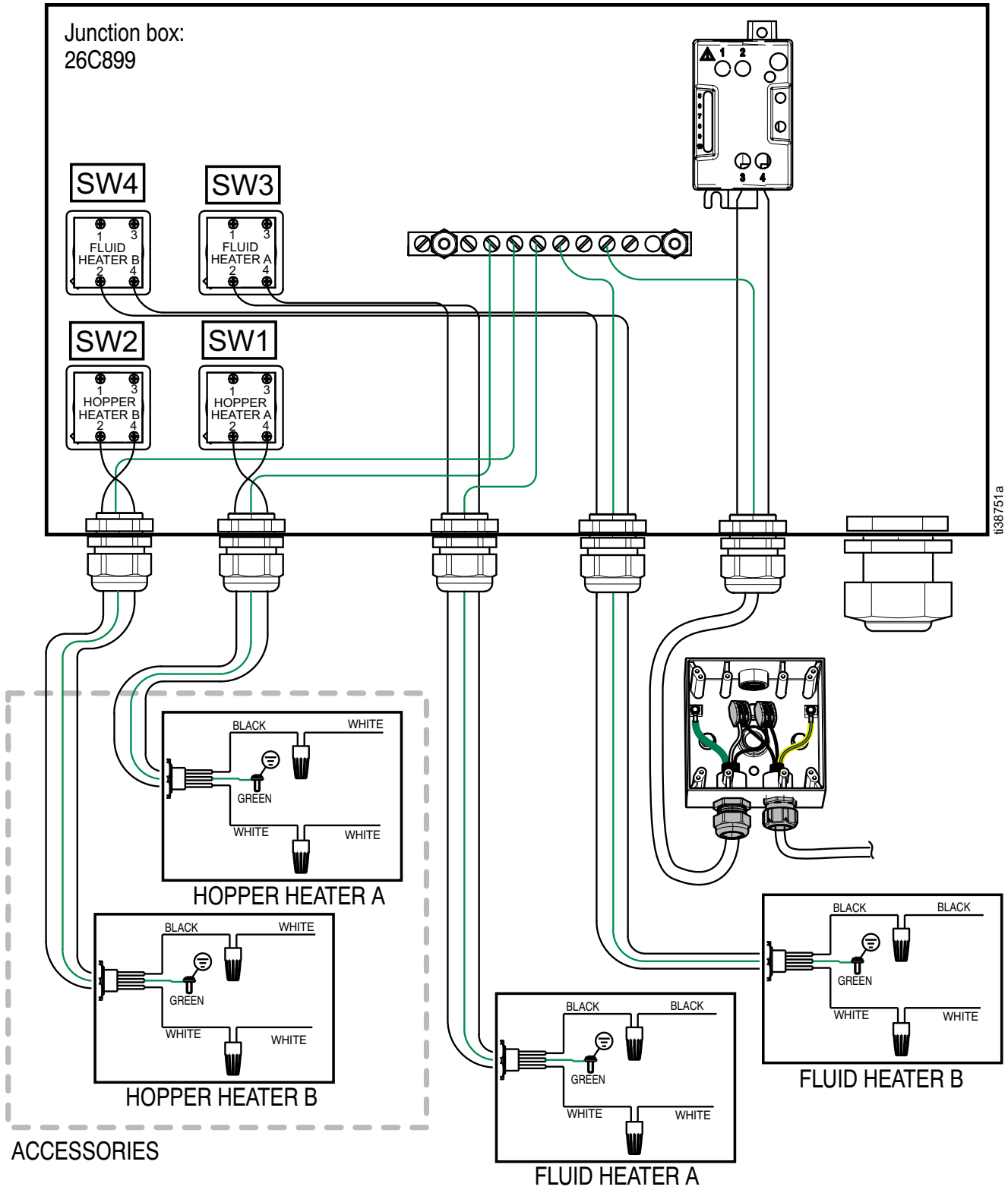
NOTE: NC indicates the wire is not connected.

Junction Box Wiring Schematics

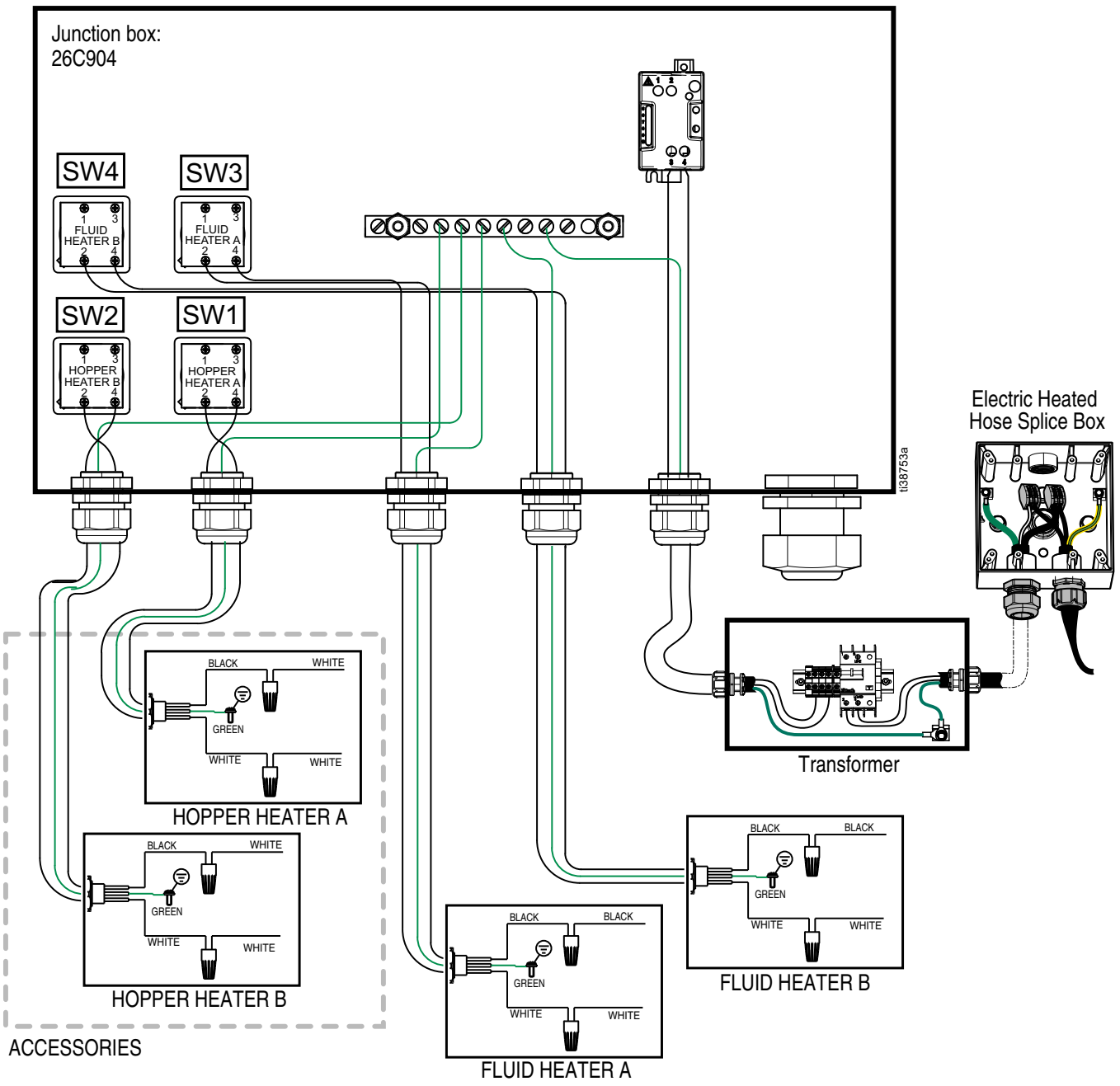
Non-Hazardous Location 240V and 480V Viscon Water Heated Hose



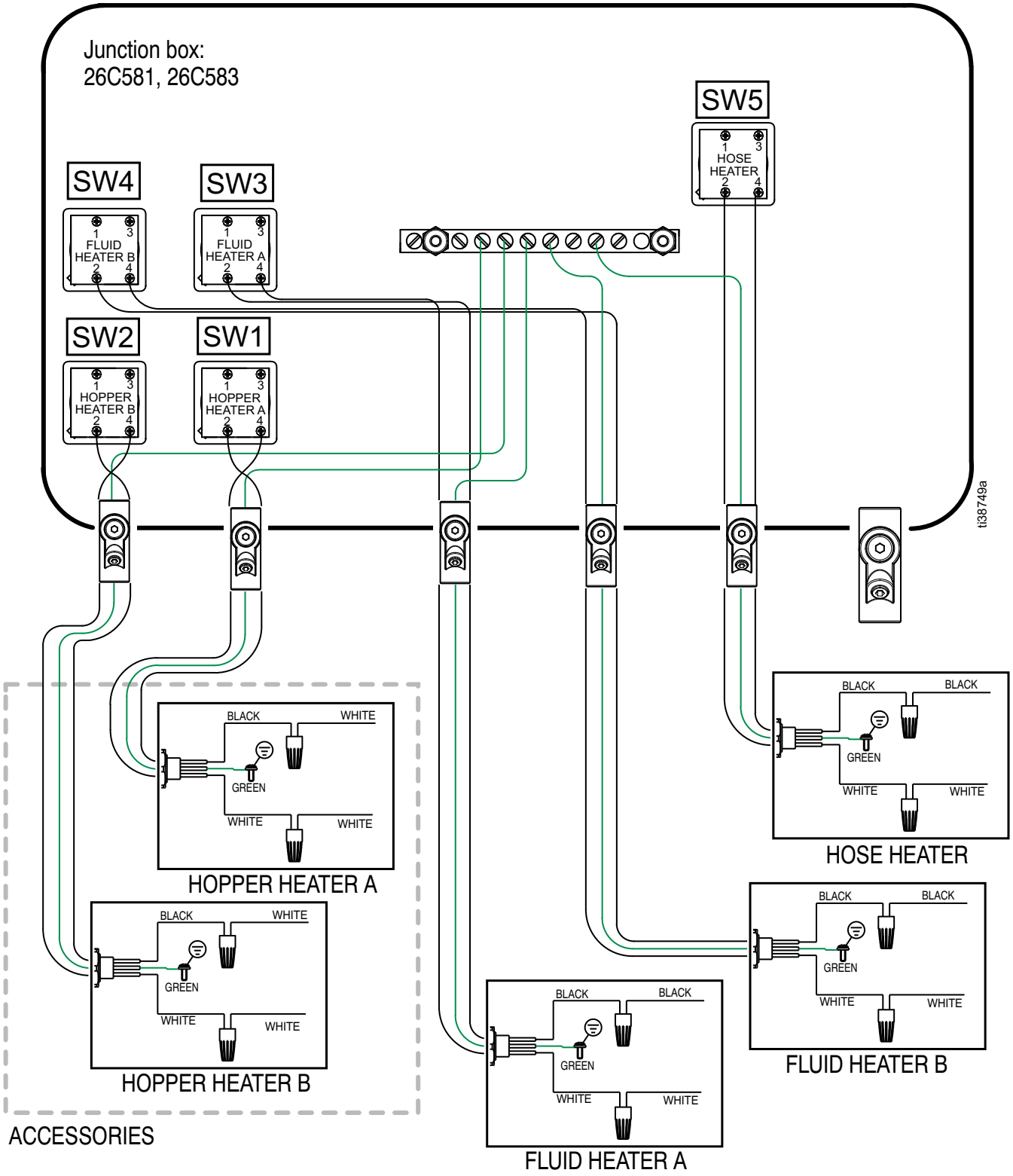
Non-Hazardous Location 240V Electric Heated Hose



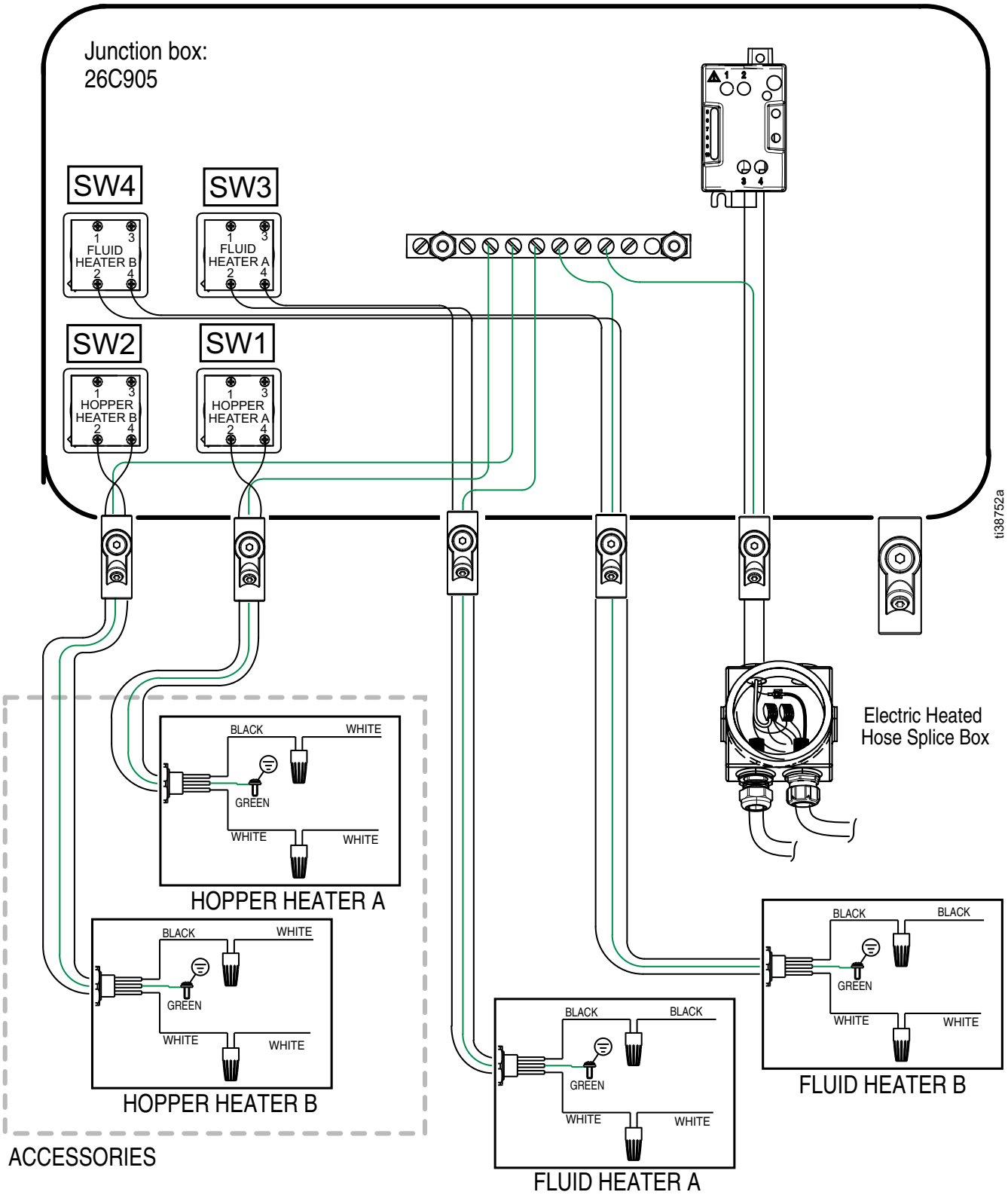
Non-Hazardous Location 480V Electric Heated Hose



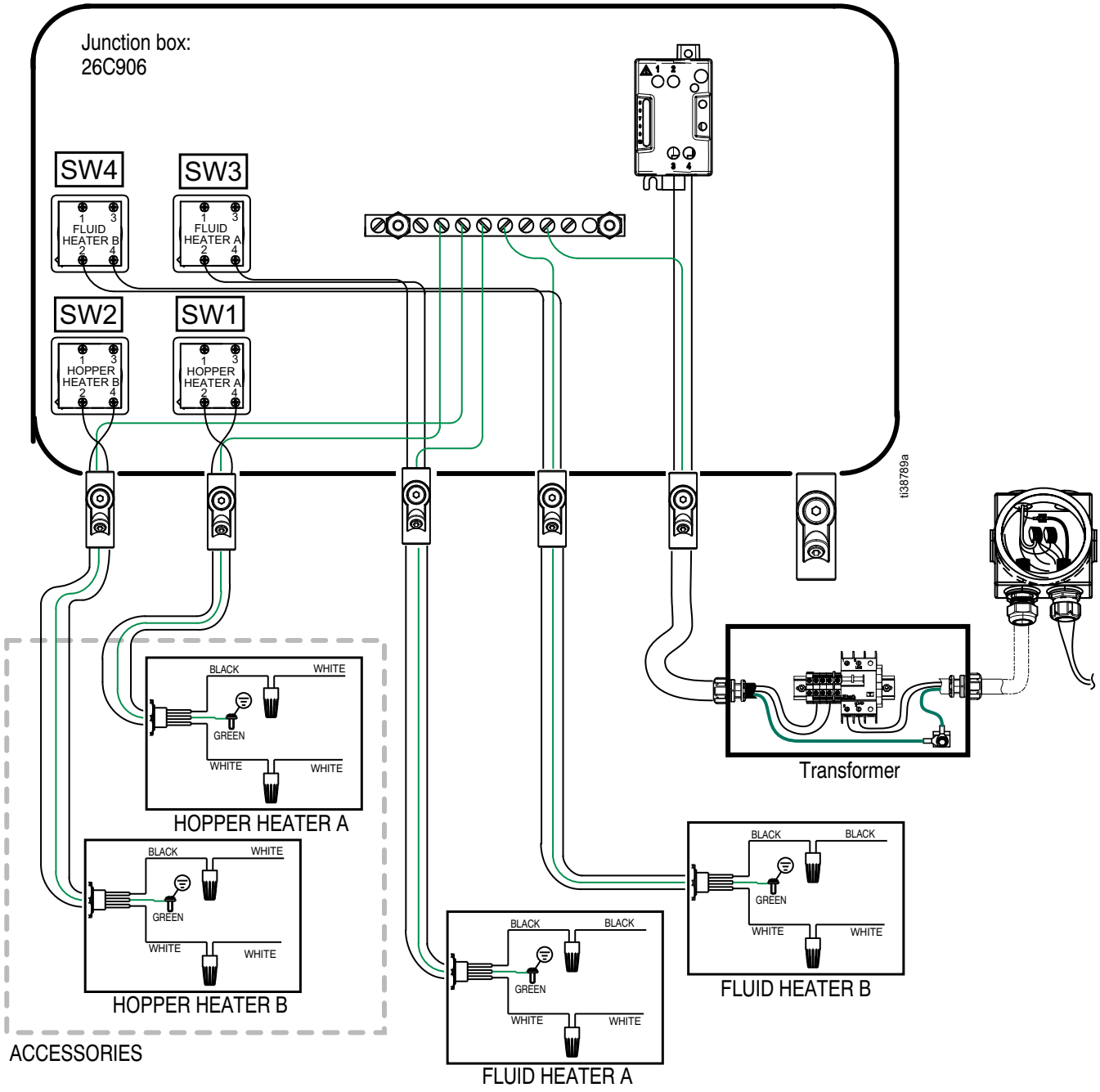
Hazardous Location 240V and 480V Viscon Water Heated Hose



Hazardous Location 240V Electric Heated Hose



Hazardous Location 480V Electric Heated Hose



Parts

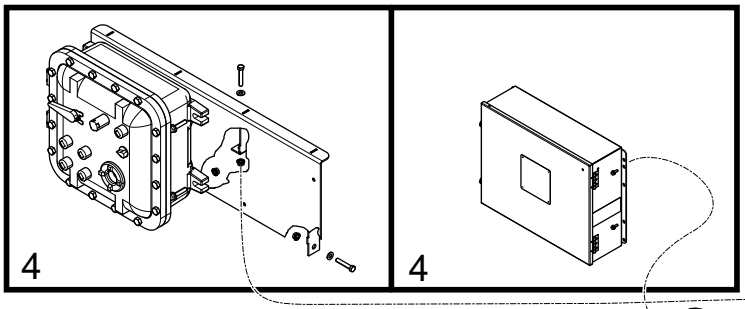
Parts Varying by Model

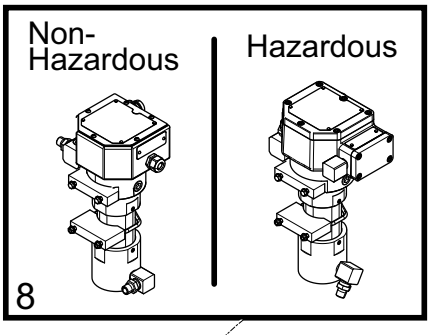
See **Models** on page 9 for components equipped on your system.

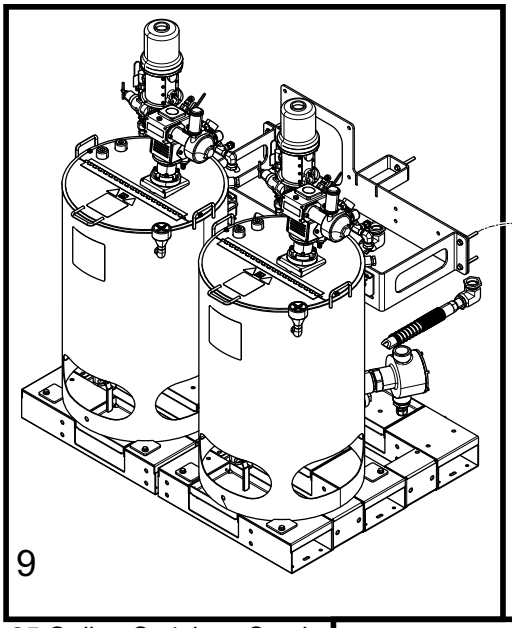
Hazardous Location Junction Box (see your junction Box manual).

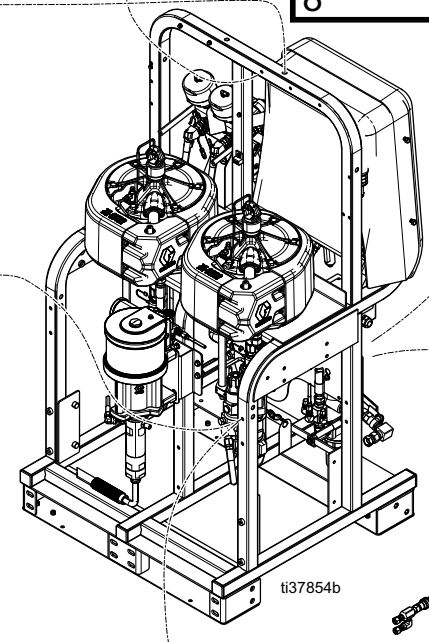
Non-Hazardous Location Junction Box (see your junction Box manual).

Primary Fluid Heaters (Ref. numbers 800-899): See **Primary Fluid Heater Parts**, page 90.

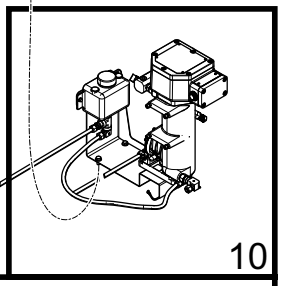




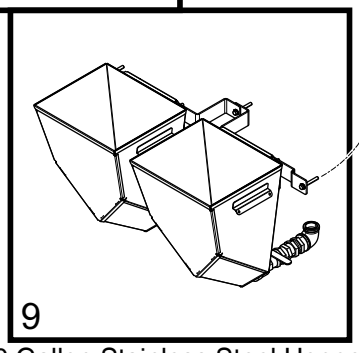




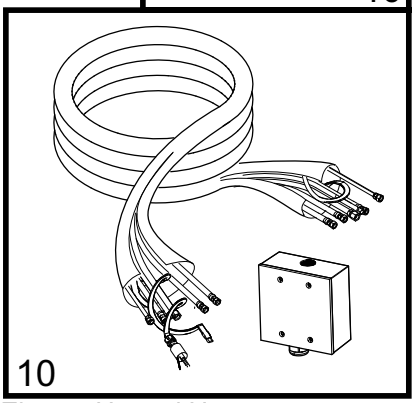
Water Heated Hose (Ref. numbers 1400-1499): See **Water-Jacketed Heated Hose**, page 93.



25 Gallon Stainless Steel Heated Hoppers (Ref. numbers 900-950): See **25-Gallon Hopper Parts**, page 91.



10 Gallon Stainless Steel Hoppers (Ref. numbers 951-999): See **10-Gallon Hopper Parts**, page 92.



Electric Heated Hose (see your Electric Heated Hose manual).

XM_ L _ _ Parts Varying by Top-Level Part Number

See **Models**, page 9, for components equipped on your system.

Models	Part	Description	For additional information, refer to:
XM1L00	XM1A00	SYSTEM, XM50, WP	**XM1**_ _ _ **Models** page 78
XM1L10	XM1A00	SYSTEM, XM50, WP, 10	**XM1**_ _ _ **Models** page 78
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
XM3L00	XM3A00	SYSTEM, XM70, BF, WP	**XM3**_ _ _ **Models** page 79
XM3L10	XM3A00	SYSTEM, XM70, BF, WP	**XM3**_ _ _ **Models** page 79
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
XM5L00	XM5A00	SYSTEM, XM50, BF, R, WP	**XM5**_ _ _ **Models** page 80
XM5L10	XM5A00	SYSTEM, XM50, BF, R, WP	**XM5**_ _ _ **Models** page 80
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
XM7L00	XM7A00	SYSTEM, XM70, R, WP	**XM7**_ _ _ **Models** page 81
XM7L10	XM7A00	SYSTEM, XM70, R, WP	**XM7**_ _ _ **Models** page 81
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92

XM_ M _ _ Parts Varying by Top-Level Part Number

See **Models**, page 9, for components equipped on your system.

Model	Part	Description	For additional information, refer to:
XM1M00	XM1A00	SYSTEM, XM50, BF, WP	**XM1_ _ _ Models**, page 78
	26C580	JUNCTION BOX, standard, 240V	Junction Box manual
	- - -	HEATER, standard, 240 V	**Primary Fluid Heater Parts**, page 90
XM1M10	XM1A00	SYSTEM, XM50, BF, WP	**XM1_ _ _ Models**, page 78
	26C580	JUNCTION BOX, standard, 240V	Junction Box manual
	- - -	HEATER, standard, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
XM1M20	XM1A00	SYSTEM, XM50, 240 V, BF, WP	**XM1_ _ _ Models**, page 78
	26C580	JUNCTION BOX, standard, 240V	Junction Box manual
	- - -	HEATER, standard, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 240 V	**25-Gallon Hopper Parts**, page 91
XM3M00	XM3A00	SYSTEM, XM70, BF, WP	**XM3_ _ _ Models**, page 79
	26C580	JUNCTION BOX, standard, 240V	Junction Box manual
	- - -	HEATER, standard, 240 V	**Primary Fluid Heater Parts**, page 90
XM3M10	XM3A00	SYSTEM, XM70, BF, WP	See **XM3_ _ _ Models**, page 79
	26C580	JUNCTION BOX, standard, 240V	Junction Box manual
	- - -	HEATER, standard, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
XM3M20	XM3A00	SYSTEM, XM70, BF, WP	**XM3_ _ _ Models**, page 79
	26C580	JUNCTION BOX, standard, 240V	Junction Box manual
	- - -	HEATER, standard, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 240 V	**25-Gallon Hopper Parts**, page 91
XM5M00	XM5A00	SYSTM, XM50, BF, R, WP	**XM5_ _ _ Models**, page 80
	26C580	JUNCTION BOX, standard, 240V	Junction Box manual
	- - -	HEATER, standard, 240 V	**Primary Fluid Heater Parts**, page 90
XM5M0E	XM5A00	SYSTM, XM50, BF, R, WP	**XM5_ _ _ Models**, page 80
	26C899	JUNCTION BOX, standard, 240V, electric heat	Junction Box manual
	- - -	HEATER, standard, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOSE, heated, electric, 240 V-H	Heated Hose manual
XM5M0W	XM5A00	SYSTM, XM50, BF, R, WP	**XM5_ _ _ Models**, page 80
	26C580	JUNCTION BOX, standard, 240V	Junction Box manual
	- - -	HEATER, standard, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOSE, heated, watt, 240 V-H	**Water-Jacketed Heated Hose**, page 93
XM5M10	XM5A00	SYSTEM, XM50, BF, R, WP	**XM5_ _ _ Models**, page 80
	26C580	JUNCTION BOX, standard, 240 V	Junction Box manual
	- - -	HEATER, standard, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
XM5M1E	XM5A00	SYSTEM, XM50, BF, R, WP	**XM5_ _ _ Models**, page 80
	26C899	JUNCTION BOX, standard, 240 V, electric heat	Junction Box manual
	- - -	HEATER, standard, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
	- - -	HOSE, heated, elec, 240 V-H	Heated Hose manual
XM5M1W	XM5A00	SYSTEM, XM50, BF, R, WP	**XM5_ _ _ Models**, page 80
	26C580	JUNCTION BOX, standard, 240 V	Junction Box manual
	- - -	HEATER, standard, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
	- - -	HOSE, heated, wat, 240 V-H	**Water-Jacketed Heated Hose**, page 93

Model	Part	Description	For additional information, refer to:
XM5M20	XM5A00	SYSTEM, XM50, BF, R, WP	**XM5_ _ _ Models**, page 80
	26C580	JUNCTION BOX, standard, 240 V	Junction Box manual
	- - -	HEATER, standard, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 240 V	**25-Gallon Hopper Parts**, page 91
XM5M2E	XM5A00	SYSTEM, XM50, BF, R, WP	**XM5_ _ _ Models**,page 80
	26C899	JUNCTION BOX, standard, 240V, electric heat	Junction Box manual
	- - -	HEATER, standard, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 240 V	**25-Gallon Hopper Parts**, page 91
	- - -	HOSE, heated, elec, 240 V-H	Heated Hose manual
XM5M2W	XM5A00	SYSTEM, XM50, BF, R, WP	**XM5_ _ _ Models**, page 80
	26C580	JUNCTION BOX, standard, 240 V	Junction Box manual
	- - -	HEATER, standard, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 240 V	**25-Gallon Hopper Parts**, page 91
	- - -	HOSE, heated, wat, 240 V-H	**Water-Jacketed Heated Hose**, page 93
XM7M00	XM7A00	SYSTM, XM70, BF, R, WP	**XM7_ _ _ Models**, page 81
	26C580	JUNCTION BOX, standard, 240 V	Junction Box manual
	- - -	HEATER, standard, 240 V	**Primary Fluid Heater Parts**, page 90
XM7M0E	XM7A00	SYSTEM, XM70, BF, R, WP	**XM7_ _ _ Models**, page 81
	26C899	JUNCTION BOX, standard, 240 V, electric heat	Junction Box manual
	- - -	HEATER, standard, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOSE, heated, elec, 240 V-H	Heated Hose manual
XM7M0W	XM7A00	SYSTEM, XM70, BF, R, WP	**XM7_ _ _ Models**, page 81
	26C580	JUNCTION BOX, standard, 240 V	Junction Box manual
	- - -	HEATER, standard, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOSE, heated, wat, 240 V-H	**Water-Jacketed Heated Hose**, page 93
XM7M10	XM7A00	SYSTEM, XM70, BF, R, WP	**XM7_ _ _ Models**, page 81
	26C580	JUNCTION BOX, standard, 240 V	Junction Box manual
	- - -	HEATER, standard, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
XM7M1E	XM7A00	SYSTEM, XM70, BF, R, WP	**XM7_ _ _ Models**, page 81
	26C899	JUNCTION BOX, standard, 240V, electric heat	Junction Box manual
	- - -	HEATER, standard, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
	- - -	HOSE, heated, elec, 240 V-H	Heated Hose manual
XM7M1W	XM7A00	SYSTEM, XM70, BF, R, WP	**XM7_ _ _ Models**, page 81
	26C580	JUNCTION BOX, standard, 240 V	Junction Box manual
	- - -	HEATER, standard, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOSE, heated, wat, 240 V-H	**Water-Jacketed Heated Hose**, page 93
XM7M20	XM7A00	SYSTEM, XM70, BF, R, WP	**XM7_ _ _ Models**, page 81
	26C580	JUNCTION BOX, standard, 240 V	Junction Box manual
	- - -	HOPPER, 25 gallon, ss lined, 240 V	**25-Gallon Hopper Parts**, page 91
XM7M2E	XM7A00	SYSTEM, XM70, BF, R, WP	**XM7_ _ _ Models**, page 81
	26C899	JUNCTION BOX, standard, 240 V, electric heat	Junction Box manual
	- - -	HEATER, standard, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 240 V	**25-Gallon Hopper Parts**, page 91
	- - -	HOSE, heated, elec, 240 V-H	Heated Hose manual
XM7M2W	XM7A00	SYSTEM, XM70, BF, R, WP	**XM7_ _ _ Models**, page 81
	26C580	JUNCTION BOX, standard, 240V	Junction Box manual
	- - -	HEATER, standard, 240V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 240 V	**25-Gallon Hopper Parts**, page 91
	- - -	HOSE, heated, wat, 240 V-H	**Water-Jacketed Heated Hose**, page 93

XM_ H _ _ Parts Varying by Top-Level Part Number

See **Models**, page 9, for components equipped on your system.

Model	Part	Description	For additional information, refer to:
XM1H00	XM1A00	SYSTEM, XM50, BF, WP	**XM1**_ _ _ **Models**, page 78
	26C582	JUNCTION BOX, standard, 480 V	Junction Box manual
	- - -	HEATER, standard, 480 V	**Primary Fluid Heater Parts**, page 90
XM1H10	XM1A00	SYSTEM, XM50, BF, WP	**XM1**_ _ _ **Models**, page 78
	26C582	JUNCTION BOX, standard, 480 V	Junction Box manual
	- - -	HEATER, standard, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
XM1H20	XM1A00	SYSTEM, XM50, BF, WP	**XM1**_ _ _ **Models**, page 78
	26C582	JUNCTION BOX, standard, 480 V	Junction Box manual
	- - -	HEATER, standard, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 480 V	**25-Gallon Hopper Parts**, page 91
XM3H00	XM3A00	SYSTEM, XM70, BF, WP	**XM3**_ _ _ **Models**, page 79
	26C582	JUNCTION BOX, standard, 480 V	Junction Box manual
	- - -	HEATER, standard, 480 V	**Primary Fluid Heater Parts**, page 90
XM3H10	XM3A00	SYSTEM, XM70, BF, WP	**XM3**_ _ _ **Models**, page 79
	26C582	JUNCTION BOX, standard, 480 V	Junction Box manual
	- - -	HEATER, standard, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
XM3H20	XM3A00	SYSTEM, XM70, BF, WP	**XM3**_ _ _ **Models**, page 79
	26C582	JUNCTION BOX, standard, 480 V	Junction Box manual
	- - -	HEATER, standard, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 480 V	**25-Gallon Hopper Parts**, page 91
XM5H00	XM5A00	SYSTEM, XM50BF, R, WP	**XM5**_ _ _ **Models**, page 80
	26C582	JUNCTION BOX, standard, 480 V	Junction Box manual
	- - -	HEATER, standard, 480 V	**Primary Fluid Heater Parts**, page 90
XM5H0E	XM5A00	SYSTEM, XM50BF, R, WP	**XM5**_ _ _ **Models**, page 80
	26C904	JUNCTION BOX, standard, 240V, electric heat	Junction Box manual
	- - -	HEATER, standard, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOSE, heated, electric, 480 V-H	Heated Hose manual
XM5H0W	XM5A00	SYSTEM, XM50BF, R, WP	**XM5**_ _ _ **Models**, page 80
	26C582	JUNCTION BOX, standard, 480 V	Junction Box manual
	- - -	HEATER, standard, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOSE, heated, wat, 480V-H	**Water-Jacketed Heated Hose**, page 93
XM5H10	XM5A00	SYSTEM, XM50BF, R, WP	**XM5**_ _ _ **Models**, page 80
	26C582	JUNCTION BOX, standard, 480 V	Junction Box manual
	- - -	HEATER, standard, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
XM5H1E	XM5A00	SYSTEM, XM50BF, R, WP	**XM5**_ _ _ **Models**, page 80
	26C904	JUNCTION BOX, standard, 480 V, electric heat	Junction Box manual
	- - -	HEATER, standard, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
	- - -	HOSE, heated, electric, 480 V-H	Heated Hose manual
XM5H1W	XM5A00	SYSTEM, XM50BF, R, WP	**XM5**_ _ _ **Models**, page 80
	26C582	JUNCTION BOX, standard, 480 V	Junction Box manual
	- - -	HEATER, standard, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
	- - -	HOSE, heated, wat, 480V-H	**Water-Jacketed Heated Hose**, page 93

Model	Part	Description	For additional information, refer to:
XM5H20	XM5A00	SYSTEM, XM50BF, R, WP	**XM5_ _ _ Models**, page 80
	26C582	JUNCTION BOX, standard, 480 V	Junction Box manual
	- - -	HEATER, standard, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 480 V	**25-Gallon Hopper Parts**, page 91
XM5H2E	XM5A00	SYSTEM, XM50BF, R, WP	**XM5_ _ _ Models**, page 80
	26C904	JUNCTION BOX, standard, 240V, electric heat	Junction Box manual
	- - -	HEATER, standard, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 480 V	**25-Gallon Hopper Parts**, page 91
	- - -	HOSE, heated, electric, 480 V-H	Heated Hose manual
XM5H2W	XM5A00	SYSTEM, XM50BF, R, WP	**XM5_ _ _ Models**, page 80
	26C582	JUNCTION BOX, standard, 480 V	Junction Box manual
	- - -	HEATER, standard, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 480 V	**25-Gallon Hopper Parts**, page 91
	- - -	HOSE, heated, wat, 480V-H	
XM7H00	XM7A00	SYSTEM, XM70, BF, R, WP	**XM7_ _ _ Models**, page 81
	26C582	JUNCTION BOX, standard, 480 V	Junction Box manual
	- - -	HEATER, standard, 480 V	**Primary Fluid Heater Parts**, page 90
XM7H0E	XM7A00	SYSTEM, XM70, BF, R, WP	**XM7_ _ _ Models**, page 81
	26C904	JUNCTION BOX, standard, 480 V, electric heat	Junction Box manual
	- - -	HEATER, standard, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOSE, heated, electric, 480 V-H	Heated Hose manual
XM7H0W	XM7A00	SYSTEM, XM70, BF, R, WP	**XM7_ _ _ Models**, page 81
	26C582	JUNCTION BOX, standard, 480 V	Junction Box manual
	- - -	HEATER, standard, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOSE, heated, wat, 480V-H	**Water-Jacketed Heated Hose**, page 93
XM7H10	XM7A00	SYSTEM, XM70, BF, R, WP	**XM7_ _ _ Models**, page 81
	26C582	JUNCTION BOX, standard, 480 V	Junction Box manual
	- - -	HEATER, standard, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
XM7H1E	XM7A00	SYSTEM, XM70, BF, R, WP	**XM7_ _ _ Models**, page 81
	26C904	JUNCTION BOX, standard, 240V, electric heat	Junction Box manual
	- - -	HEATER, standard, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
	- - -	HOSE, heated, electric, 480V	Heated Hose manual
XM7H1W	XM7A00	SYSTEM, XM70, BF, R, WP	**XM7_ _ _ Models**, page 81
	26C582	JUNCTION BOX, standard, 480 V	Junction Box manual
	- - -	HEATER, standard, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
	- - -	HOSE, heated, wat, 480V-H	**Water-Jacketed Heated Hose**, page 93
XM7H20	XM7A00	SYSTEM, XM70, BF, R, WP	**XM7_ _ _ Models**, page 81
	26C582	JUNCTION BOX, standard, 480 V	Junction Box manual
	- - -	HEATER, standard, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 480 V	**25-Gallon Hopper Parts**, page 91
XM7H2E	XM7A00	SYSTEM, XM70, BF, R, WP	**XM7_ _ _ Models**, page 81
	26C904	JUNCTION BOX, standard, 480 V, electric heat	Junction Box manual
	- - -	HEATER, standard, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 480 V	**25-Gallon Hopper Parts**, page 91
	- - -	HOSE, heated, electric, 480V	Heated Hose manual
XM7H2W	XM7A00	SYSTEM, XM70, BF, R, WP	**XM7_ _ _ Models**, page 81
	26C582	JUNCTION BOX, standard, 480 V	Junction Box manual
	- - -	HEATER, standard, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 480 V	**25-Gallon Hopper Parts**, page 91
	- - -	HOSE, heated, wat, 480V-H	**Water-Jacketed Heated Hose**, page 93

XM_ N _ _ Parts Varying by Top-Level Part Number

See **Models**, page 9, for components equipped on your system.

Model	Part	Description	For additional information, refer to:
XM1N00	XM1D00	SYSTEM, XM50, BF, IS	**XM1_ _ _ Models**, page 78
XM1N10	XM1D00	SYSTEM, XM50, BF, IS	**XM1_ _ _ Models**, page 78
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
XM1N20	XM1D00	SYSTEM, XM50, BF, IS	**XM1_ _ _ Models**, page 78
	- - -	HOPPER, 25 gallon, ss lined, 240 V	**25-Gallon Hopper Parts**, page 91
XM3N00	XM3D00	SYSTEM, XM70, BF, IS	**XM3_ _ _ Models**, page 79
XM3N10	XM3D00	SYSTEM, XM70, BF, IS	**XM3_ _ _ Models**, page 79
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
XM3N20	XM3D00	SYSTEM, XM70, BF, IS	**XM3_ _ _ Models**, page 79
	- - -	HOPPER, 25 gallon, ss lined, 240 V	**25-Gallon Hopper Parts**, page 91
XM5N00	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5_ _ _ Models**, page 80
XM5N0E	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5_ _ _ Models**, page 80
	- - -	HOSE, heated, electric, 240 V-H	Heated Hose manual
XM5N0W	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5_ _ _ Models**, page 80
	- - -	HOSE, heated, wat, 240 V-H	**Water-Jacketed Heated Hose**, page 93
XM5N10	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5_ _ _ Models**, page 80
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
XM5N1E	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5_ _ _ Models**, page 80
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
	- - -	HOSE, heated, electric, 240 V-H	Heated Hose manual
XM5N1W	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5_ _ _ Models**, page 80
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
	- - -	HOSE, heated, wat, 240 V-H	**Water-Jacketed Heated Hose**, page 93
XM5N20	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5_ _ _ Models**, page 80
	- - -	HOPPER, 25 gallon, ss lined, 240 V	**25-Gallon Hopper Parts**, page 91
XM5N2E	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5_ _ _ Models**, page 80
	- - -	HOPPER, 25 gallon, ss lined, 240 V	**25-Gallon Hopper Parts**, page 91
	- - -	HOSE, heated, electric, 240 V-H	Heated Hose manual
XM5N2W	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5_ _ _ Models**, page 80
	- - -	HOPPER, 25 gallon, ss lined, 240 V	**25-Gallon Hopper Parts**, page 91
	- - -	HOSE, heated, wat, 240 V-H	**Water-Jacketed Heated Hose**, page 93
XM7N00	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7_ _ _ Models**, page 81
XM7N0E	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7_ _ _ Models**, page 81
	- - -	HOSE, heated, electric, 240 V-H	Heated Hose manual
XM7N0W	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7_ _ _ Models**, page 81
	- - -	HOSE, heated, wat, 240 V-H	**Water-Jacketed Heated Hose**, page 93
XM7N10	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7_ _ _ Models**, page 81
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
XM7N1E	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7_ _ _ Models**, page 81
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
	- - -	HOSE, heated, electric, 240 V-H	Heated Hose manual
XM7N1W	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7_ _ _ Models**, page 81
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
	- - -	HOSE, heated, wat, 240 V-H	**Water-Jacketed Heated Hose**, page 93
XM7N20	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7_ _ _ Models**, page 81
	- - -	HOPPER, 25 gallon, ss lined, 240 V	**25-Gallon Hopper Parts**, page 91
XM7N2E	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7_ _ _ Models**, page 81
	- - -	HOPPER, 25 gallon, ss lined, 240 V	**25-Gallon Hopper Parts**, page 91
	- - -	HOSE, heated, electric, 240 V-H	Heated Hose manual
XM7N2W	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7_ _ _ Models**, page 81
	- - -	HOPPER, 25 gallon, ss lined, 240 V	**25-Gallon Hopper Parts**, page 91
	- - -	HOSE, heated, wat, 240 V-H	**Water-Jacketed Heated Hose**, page 93

XM_ P _ _ Parts Varying by Top-Level Part Number

See **Models**, page 9, for components equipped on your system.

Model	Part	Description	For additional information, refer to:
XM1P00	XM1D00	SYSTEM, XM50, BF, IS	**XM1**_ _ _ **Models**, page 78
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
XM1P10	XM1D00	SYSTEM, XM50, BF, IS	**XM1**_ _ _ **Models**, page 78
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
XM1P20	XM1D00	SYSTEM, XM50, BF, IS	**XM1**_ _ _ **Models**, page 78
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 240 V	**25-Gallon Hopper Parts**, page 91
XM3P00	XM3D00	SYSTEM, XM70, BF, IS	**XM3**_ _ _ **Models**, page 79
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
XM3P10	XM3D00	SYSTEM, XM70, BF, IS	**XM3**_ _ _ **Models**, page 79
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
XM3P20	XM3D00	SYSTEM, XM70, BF, IS	**XM3**_ _ _ **Models**, page 79
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 240 V	**25-Gallon Hopper Parts**, page 91
XM5P00	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5**_ _ _ **Models**, page 80
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
XM5P0E	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5**_ _ _ **Models**, page 80
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOSE, heated, electric, 240 V-H	Heated Hose manual
XM5P0W	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5**_ _ _ **Models**, page 80
	- - -	HOSE, heated, wat, 240V-H	**Water-Jacketed Heated Hose**, page 93
XM5P10	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5**_ _ _ **Models**, page 80
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
XM5P1E	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5**_ _ _ **Models**, page 80
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
	- - -	HOSE, heated, electric, 240 V-H	Heated Hose manual
XM5P1W	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5**_ _ _ **Models**, page 80
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
	- - -	HOSE, heated, wat, 240V-H	**Water-Jacketed Heated Hose**, page 93
XM5P20	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5**_ _ _ **Models**, page 80
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 240 V	**25-Gallon Hopper Parts**, page 91
XM5P2E	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5**_ _ _ **Models**, page 80
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 240 V	**XM7**_ _ _ **Models**, page 81
	- - -	HOSE, heated, electric, 240 V-H	Heated Hose manual
XM5P2W	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5**_ _ _ **Models**, page 80
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 240 V	**25-Gallon Hopper Parts**, page 91
	- - -	HOSE, heated, wat, 240V-H	**Water-Jacketed Heated Hose**, page 93
XM7P00	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7**_ _ _ **Models**, page 81
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
XM7P0E	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7**_ _ _ **Models**, page 81
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOSE, heated, electric, 240 V-H	Heated Hose manual

Model	Part	Description	For additional information, refer to:
XM7P0W	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7_ _ _ Models**, page 81
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOSE, heated, wat, 240V-H	**Water-Jacketed Heated Hose**, page 93
XM7P10	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7_ _ _ Models**, page 81
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
XM7P1E	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7_ _ _ Models**, page 81
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
	- - -	HOSE, heated, electric, 240 V-H	Heated Hose manual
XM7P1W	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7_ _ _ Models**, page 81
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
	- - -	HOSE, heated, wat, 240V-H	**Water-Jacketed Heated Hose**, page 93
XM7P20	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7_ _ _ Models**, page 81
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 240 V	**25-Gallon Hopper Parts**, page 91
XM7P2E	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7_ _ _ Models**, page 81
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 240 V	**25-Gallon Hopper Parts**, page 91
	- - -	HOSE, heated, electric, 240 V-H	Heated Hose manual
XM7P2W	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7_ _ _ Models**, page 81
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 240 V	**25-Gallon Hopper Parts**, page 91
	- - -	HOSE, heated, wat, 240V-H	**Water-Jacketed Heated Hose**, page 93

XM_ F _ _ Parts Varying by Top-Level Part Number

See **Models**, page 9, for components equipped on your system.

Model	Part	Description	For additional information, refer to:
XM1F00	XM1D00	SYSTEM, XM50, BF, IS	**XM1**_ _ _ **Models**, page 78
	273114	HEATER, haz-ex, 480 V	**Primary Fluid Heater Parts**, page 90
XM1F10	XM1D00	SYSTEM, XM50, BF, IS	**XM1**_ _ _ **Models**, page 78
	- - -	HEATER, haz-ex, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
XM1F20	XM1D00	SYSTEM, XM50, BF, IS	**XM1**_ _ _ **Models**, page 78
	- - -	HEATER, haz-ex, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 480 V	**25-Gallon Hopper Parts**, page 91
XM3F00	XM3D00	SYSTEM, XM70, BF, IS	**XM3**_ _ _ **Models**, page 79
	- - -	HEATER, haz-ex, 480 V	**Primary Fluid Heater Parts**, page 90
XM3F10	XM3D00	SYSTEM, XM70, BF, IS	**XM3**_ _ _ **Models**, page 79
	- - -	HEATER, haz-ex, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
XM3F20	XM3D00	SYSTEM, XM70, BF, IS	**XM3**_ _ _ **Models**, page 79
	- - -	HEATER, haz-ex, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 480 V	**25-Gallon Hopper Parts**, page 91
XM5F00	XM5D00	SYSTEM, XM50, BF, IS	**XM5**_ _ _ **Models**, page 80
	- - -	HEATER, haz-ex, 480 V	**Primary Fluid Heater Parts**, page 90
XM5F0E	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5**_ _ _ **Models**, page 80
	- - -	HEATER, haz-ex, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOSE, heated, electric, 480 V-H	Heated Hose manual
XM5F0W	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5**_ _ _ **Models**, page 80
	- - -	HEATER, haz-ex, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOSE, heated, wat, 480 V-H	**Water-Jacketed Heated Hose**, page 93
XM5F10	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5**_ _ _ **Models**, page 80
	- - -	HEATER, haz-ex, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
XM5F1E	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5**_ _ _ **Models**, page 80
	- - -	HEATER, haz-ex, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
	- - -	HOSE, heated, electric, 480 V-H	Heated Hose manual
XM5F1W	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5**_ _ _ **Models**, page 80
	- - -	HEATER, haz-ex, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
	- - -	HOSE, heated, wat, 480 V-H	**Water-Jacketed Heated Hose**, page 93
XM5F20	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5**_ _ _ **Models**, page 80
	- - -	HEATER, haz-ex, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 480 V	**25-Gallon Hopper Parts**, page 91
XM5F2E	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5**_ _ _ **Models**, page 80
	- - -	HEATER, haz-ex, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 480 V	**25-Gallon Hopper Parts**, page 91
	- - -	HOSE, heated, electric, 480 V-H	Heated Hose manual
XM5F2W	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5**_ _ _ **Models**, page 80
	- - -	HEATER, haz-ex, 480 V	**Primary Fluid Heater Parts**. page 90
	- - -	HOPPER, 25 gallon, ss lined, 480 V	**25-Gallon Hopper Parts**, page 91
	- - -	HOSE, heated, wat, 480 V-H	**Water-Jacketed Heated Hose**, page 93
XM7F00	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5**_ _ _ **Models**, page 80
	- - -	HEATER, haz-ex, 480 V	**Primary Fluid Heater Parts**, page 90

Model	Part	Description	For additional information, refer to:
XM7F0E	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7_ _ _ Models**, page 81
	- - -	HEATER, haz-ex, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOSE, heated, electric, 480 V-H	Heated Hose manual
XM7F0W	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7_ _ _ Models**, page 81
	- - -	HEATER, haz-ex, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOSE, heated, wat, 480 V-H	**Water-Jacketed Heated Hose**, page 93
XM7F10	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7_ _ _ Models**, page 81
	- - -	HEATER, haz-ex, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
XM7F1E	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7_ _ _ Models**, page 81
	- - -	HEATER, haz-ex, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
	- - -	HOSE, heated, electric, 480 V-H	Heated Hose manual
XM7F1W	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7_ _ _ Models**, page 81
	- - -	HEATER, haz-ex, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
	- - -	HOSE, heated, wat, 480 V-H	**Water-Jacketed Heated Hose**, page 93
XM7F20	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7_ _ _ Models**, page 81
	- - -	HEATER, haz-ex, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 480 V	**25-Gallon Hopper Parts**, page 91
XM7F2E	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7_ _ _ Models**, page 81
	- - -	HEATER, haz-ex, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 480 V	**25-Gallon Hopper Parts**, page 91
	- - -	HOSE, heated, electric, 480 V-H	Heated Hose manual
XM7F2W	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7_ _ _ Models**, page 81
	- - -	HEATER, haz-ex, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 480 V	**25-Gallon Hopper Parts**, page 91
	- - -	HOSE, heated, wat, 480 V-H	**Water-Jacketed Heated Hose**, page 93

XM_ J_ _ Parts Varying by Top-Level Part Number

See **Models**, page 9, for components equipped on your system.

Model	Part	Description	For additional information, refer to:
XM1J00	XM1D00	SYSTEM, XM50, BF, IS	**XM1_ _ _ Models**, page 78
	26C581	JUNCTION BOX, haz-ex, 240 V	Junction Box manual
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
XM1J10	XM1D00	SYSTEM, XM50, BF, IS	**XM1_ _ _ Models**, page 78
	26C581	JUNCTION BOX, haz-ex, 240 V	Junction Box manual
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
XM1J20	XM1D00	SYSTEM, XM50, BF, IS	**XM1_ _ _ Models**, page 78
	26C581	JUNCTION BOX, haz-ex, 240 V	Junction Box manual
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 240 V	**25-Gallon Hopper Parts**, page 91
XM3J00	XM3D00	SYSTEM, XM70, BF, IS	**XM3_ _ _ Models**, page 79
	26C581	JUNCTION BOX, haz-ex, 240 V	Junction Box manual
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
XM3J10	XM3D00	SYSTEM, XM70, BF, IS	**XM3_ _ _ Models**, page 79
	26C581	JUNCTION BOX, haz-ex, 240 V	Junction Box manual
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
XM3J20	XM3D00	SYSTEM, XM70, BF, IS	**XM3_ _ _ Models**, page 79
	26C581	JUNCTION BOX, haz-ex, 240 V	Junction Box manual
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 240 V	**25-Gallon Hopper Parts**, page 91
XM5J00	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5_ _ _ Models**, page 80
	26C581	JUNCTION BOX, haz-ex, 240 V	Junction Box manual
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
XM5J0E	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5_ _ _ Models**, page 80
	26C905	JUNCTION BOX, standard, 240V, electric heat	Junction Box manual
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOSE, heated, electric, 240 V-H	Heated Hose manual
XM5J0W	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5_ _ _ Models**, page 80
	26C581	JUNCTION BOX, haz-ex, 240 V	Junction Box manual
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOSE, heated, wat, 240 V-H	**Water-Jacketed Heated Hose**, page 93
XM5J10	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5_ _ _ Models**, page 80
	26C581	JUNCTION BOX, haz-ex, 240 V	Junction Box manual
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
XM5J1E	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5_ _ _ Models**, page 80
	26C905	JUNCTION BOX, haz-ex, 240 V, electric heat	Junction Box manual
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
	- - -	HOSE, heated, electric, 240 V-H	Heated Hose manual
XM5J1W	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5_ _ _ Models**, page 80
	26C581	JUNCTION BOX, haz-ex, 240 V	Junction Box manual
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
	- - -	HOSE, heated, wat, 240 V-H	**Water-Jacketed Heated Hose**, page 93

Model	Part	Description	For additional information, refer to:
XM5J20	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5_ _ _ Models**, page 80
	26C581	JUNCTION BOX, haz-ex, 240 V	Junction Box manual
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 240 V	**25-Gallon Hopper Parts**, page 91
XM5J2E	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5_ _ _ Models**, page 80
	26C905	JUNCTION BOX, standard, 240V, electric heat	Junction Box manual
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 240 V	**25-Gallon Hopper Parts**, page 91
	- - -	HOSE, heated, electric, 240 V-H	Heated Hose manual
XM5J2W	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5_ _ _ Models**, page 80
	26C581	JUNCTION BOX, haz-ex, 240 V	Junction Box manual
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 240 V	**25-Gallon Hopper Parts**, page 91
	- - -	HOSE, heated, wat, 240 V-H	**Water-Jacketed Heated Hose**, page 93
XM7J00	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7_ _ _ Models**, page 81
	26C581	JUNCTION BOX, haz-ex, 240 V	Junction Box manual
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
XM7J0E	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7_ _ _ Models**, page 81
	26C905	JUNCTION BOX, haz-ex, 240 V, electric heat	Junction Box manual
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOSE, heated, electric, 240 V-H	Heated Hose manual
XM7J0W	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7_ _ _ Models**, page 81
	26C581	JUNCTION BOX, haz-ex, 240 V	Junction Box manual
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOSE, heated, wat, 240 V-H	**Water-Jacketed Heated Hose**, page 93
XM7J10	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7_ _ _ Models**, page 81
	26C581	JUNCTION BOX, haz-ex, 240 V	Junction Box manual
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
XM7J1E	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7_ _ _ Models**, page 81
	26C905	JUNCTION BOX, standard, 240V, electric heat	Junction Box manual
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
	- - -	HOSE, heated, electric, 240 V-H	Heated Hose manual
XM7J1W	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7_ _ _ Models**, page 81
	26C581	JUNCTION BOX, haz-ex, 240 V	Junction Box manual
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
	- - -	HOSE, heated, wat, 240 V-H	**Water-Jacketed Heated Hose**, page 93
XM7J20	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7_ _ _ Models**, page 81
	26C581	JUNCTION BOX, haz-ex, 240 V	Junction Box manual
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 240 V	**25-Gallon Hopper Parts**, page 91
XM7J2E	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7_ _ _ Models**, page 81
	26C905	JUNCTION BOX, haz-ex, 240 V, electric heat	Junction Box manual
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 240 V	**25-Gallon Hopper Parts**, page 91
	- - -	HOSE, heated, electric, 240 V-H	Heated Hose manual
XM7J2W	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7_ _ _ Models**, page 81
	26C581	JUNCTION BOX, haz-ex, 240 V	Junction Box manual
	- - -	HEATER, haz-ex, 240 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 240 V	**25-Gallon Hopper Parts**, page 91
	- - -	HOSE, heated, wat, 240 V-H	**Water-Jacketed Heated Hose**, page 93

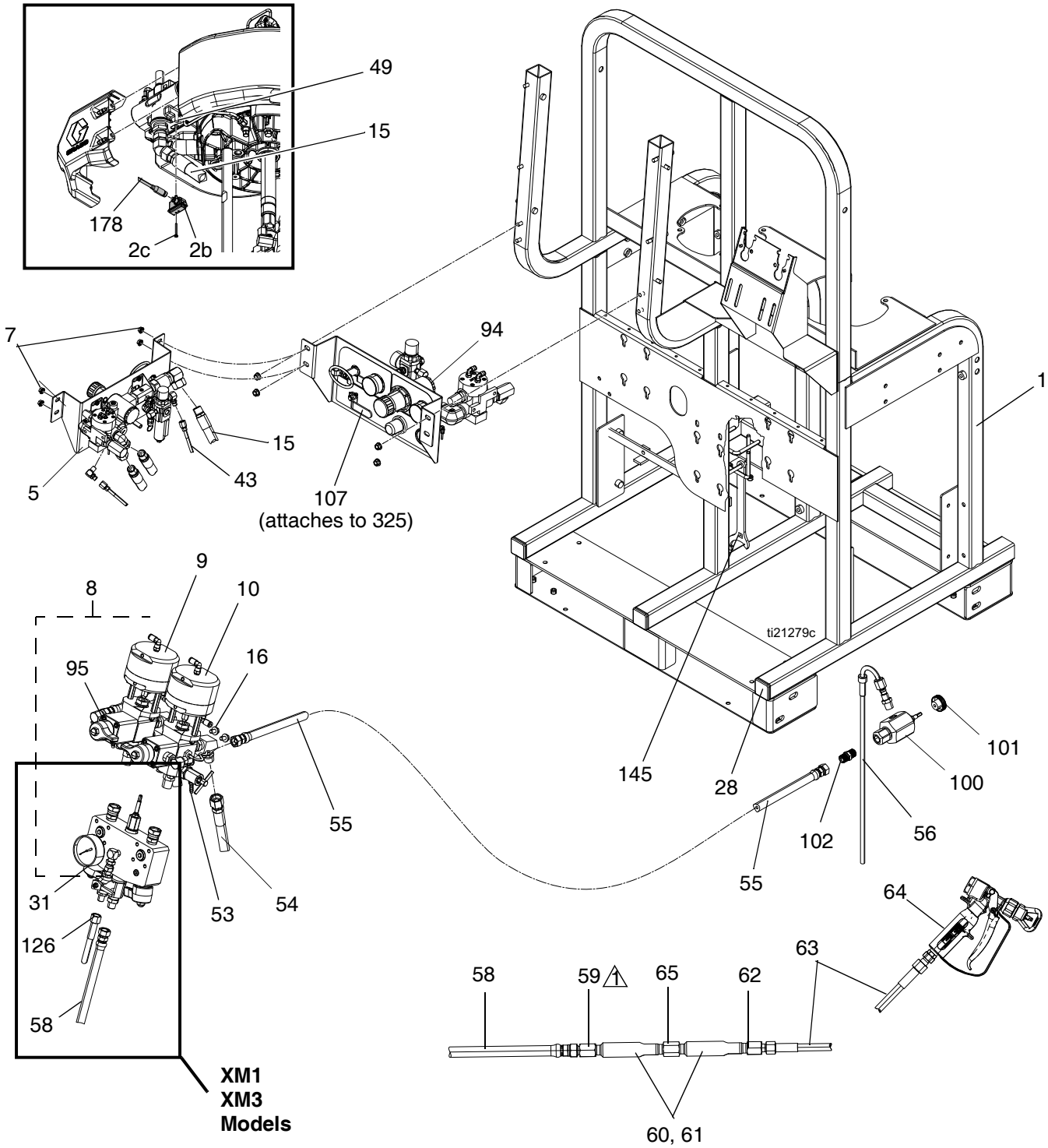
XM_ K _ _ Parts Varying by Top-Level Part Number

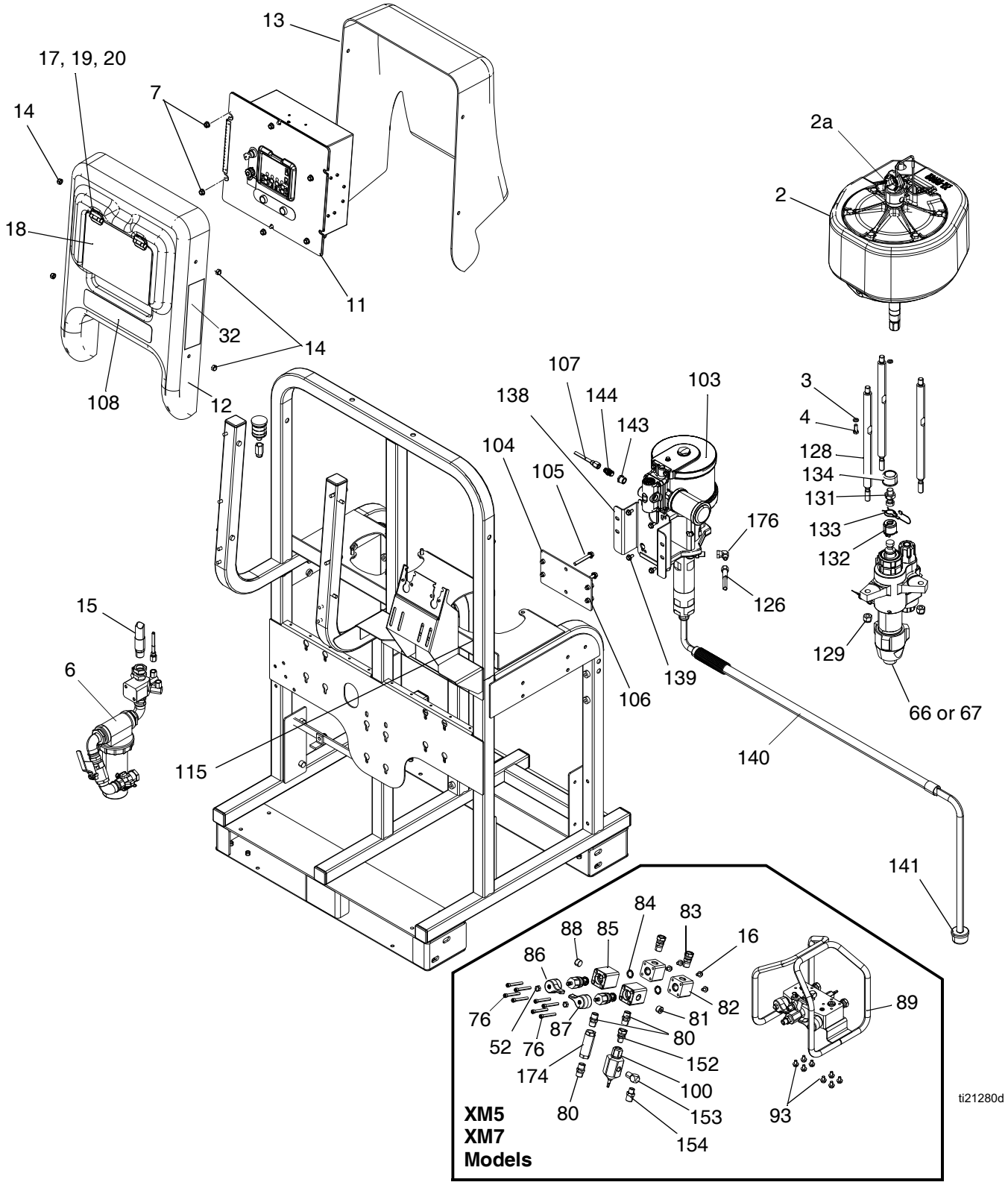
See **Models**, page 9, for components equipped on your system.

Model	Part	Description	For additional information, refer to:
XM1K00	XM1D00	SYSTEM, XM50, BF, IS	**XM1_ _ _ Models**, page 78
	26C583	JUNCTION BOX, haz-ex, 480 V	Junction Box manual
	- - -	HEATER, haz-EX, 480 V	**Primary Fluid Heater Parts**, page 90
XM1K10	XM1D00	SYSTEM, XM50, BF, IS	**XM1_ _ _ Models**, page 78
	26C583	JUNCTION BOX, haz-ex, 480 V	Junction Box manual
	- - -	HEATER, haz-EX, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
XM1K20	XM1D00	SYSTEM, XM50, BF, IS	**XM1_ _ _ Models**, page 78
	26C583	JUNCTION BOX, haz-ex, 480 V	Junction Box manual
	- - -	HEATER, haz-EX, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 480 V	**25-Gallon Hopper Parts**, page 91
XM3K00	XM3D00	SYSTEM, XM70, BF, IS	**XM3_ _ _ Models**, page 79
	26C583	JUNCTION BOX, haz-ex, 480 V	Junction Box manual
	- - -	HEATER, haz-EX, 480 V	**Primary Fluid Heater Parts**, page 90
XM3K10	XM3D00	SYSTEM, XM70, BF, IS	**XM3_ _ _ Models**, page 79
	26C583	JUNCTION BOX, haz-ex, 480 V	Junction Box manual
	- - -	HEATER, haz-EX, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
XM3K20	XM3D00	SYSTEM, XM70, BF, IS	**XM3_ _ _ Models**, page 79
	26C583	JUNCTION BOX, haz-ex, 480 V	Junction Box manual
	- - -	HEATER, haz-EX, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 480 V	**25-Gallon Hopper Parts**, page 91
XM5K00	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5_ _ _ Models**, page 80
	26C583	JUNCTION BOX, haz-ex, 480 V	Junction Box manual
	- - -	HEATER, haz-EX, 480 V	**Primary Fluid Heater Parts**, page 90
XM5K0E	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5_ _ _ Models**, page 80
	26C906	JUNCTION BOX, standard, 240V, electric heat	Junction Box manual
	- - -	HEATER, haz-EX, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOSE, heated, electric, 480 V-H	Heated Hose manual
XM5K0W	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5_ _ _ Models**, page 80
	26C583	JUNCTION BOX, haz-ex, 480 V	Junction Box manual
	- - -	HEATER, haz-EX, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOSE, heated, wat, 480 V-H	**Water-Jacketed Heated Hose**, page 93
XM5K10	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5_ _ _ Models**, page 80
	26C583	JUNCTION BOX, haz-ex, 480 V	Junction Box manual
	- - -	HEATER, haz-EX, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
XM5K1E	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5_ _ _ Models**, page 80
	26C906	JUNCTION BOX, haz-ex, 480 V, electric heat	Junction Box manual
	- - -	HEATER, haz-EX, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
	- - -	HOSE, heated, electric, 480 V-H	Heated Hose manual
XM5K1W	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5_ _ _ Models**, page 80
	26C583	JUNCTION BOX, haz-ex, 480 V	Junction Box manual
	- - -	HEATER, haz-EX, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
	- - -	HOSE, heated, wat, 480 V-H	**Water-Jacketed Heated Hose**, page 93

Model	Part	Description	For additional information, refer to:
XM5K20	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5_ _ _ Models**, page 80
	26C583	JUNCTION BOX, haz-ex, 480 V	Junction Box manual
	- - -	HEATER, haz-EX, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 480 V	**25-Gallon Hopper Parts**, page 91
XM5K2E	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5_ _ _ Models**, page 80
	26C906	JUNCTION BOX, standard, 240V, electric heat	Junction Box manual
	- - -	HEATER, haz-EX, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 480 V	**25-Gallon Hopper Parts**, page 91
	- - -	HOSE, heated, electric, 480 V-H	Heated Hose manual
XM5K2W	XM5D00	SYSTEM, XM50, BF, R, IS	**XM5_ _ _ Models**, page 80
	26C583	JUNCTION BOX, haz-ex, 480 V	Junction Box manual
	- - -	HEATER, haz-EX, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 480 V	**25-Gallon Hopper Parts**, page 91
	- - -	HOSE, heated, wat, 480 V-H	**Water-Jacketed Heated Hose**, page 93
XM7K00	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7_ _ _ Models**, page 81
	26C583	JUNCTION BOX, haz-ex, 480 V	Junction Box manual
	- - -	HEATER, haz-EX, 480 V	**Primary Fluid Heater Parts**, page 90
XM7K0E	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7_ _ _ Models**, page 81
	26C906	JUNCTION BOX, haz-ex, 480 V, electric heat	Junction Box manual
	- - -	HEATER, haz-EX, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOSE, heated, electric, 480 V-H	Heated Hose manual
XM7K0W	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7_ _ _ Models**, page 81
	26C583	JUNCTION BOX, haz-ex, 480 V	Junction Box manual
	- - -	HEATER, haz-EX, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOSE, heated, wat, 480 V-H	**Water-Jacketed Heated Hose**, page 93
XM7K10	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7_ _ _ Models**, page 81
	26C583	JUNCTION BOX, haz-ex, 480 V	Junction Box manual
	- - -	HEATER, haz-EX, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
XM7K1E	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7_ _ _ Models**, page 81
	26C906	JUNCTION BOX, standard, 240V, electric heat	Junction Box manual
	- - -	HEATER, haz-EX, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
	- - -	HOSE, heated, electric, 480 V-H	Heated Hose manual
XM7K1W	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7_ _ _ Models**, page 81
	26C583	JUNCTION BOX, haz-ex, 480 V	Junction Box manual
	- - -	HEATER, haz-EX, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 10 gallon, ss	**10-Gallon Hopper Parts**, page 92
	- - -	HOSE, heated, wat, 480 V-H	**Water-Jacketed Heated Hose**, page 93
XM7K20	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7_ _ _ Models**, page 81
	26C583	JUNCTION BOX, haz-ex, 480 V	Junction Box manual
	- - -	HEATER, haz-EX, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 480 V	**25-Gallon Hopper Parts**, page 91
XM7K2E	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7_ _ _ Models**, page 81
	26C906	JUNCTION BOX, haz-ex, 480 V, electric heat	Junction Box manual
	- - -	HEATER, haz-EX, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 480 V	**25-Gallon Hopper Parts**, page 91
	- - -	HOSE, heated, electric, 480 V-H	Heated Hose manual
XM7K2W	XM7D00	SYSTEM, XM70, BF, R, IS	**XM7_ _ _ Models**, page 81
	26C583	JUNCTION BOX, haz-ex, 480 V	Junction Box manual
	- - -	HEATER, haz-EX, 480 V	**Primary Fluid Heater Parts**, page 90
	- - -	HOPPER, 25 gallon, ss lined, 480 V	**25-Gallon Hopper Parts**, page 91
	- - -	HOSE, heated, wat, 480 V-H	**Water-Jacketed Heated Hose**, page 93

XM Plural-Component Sprayers Common Parts

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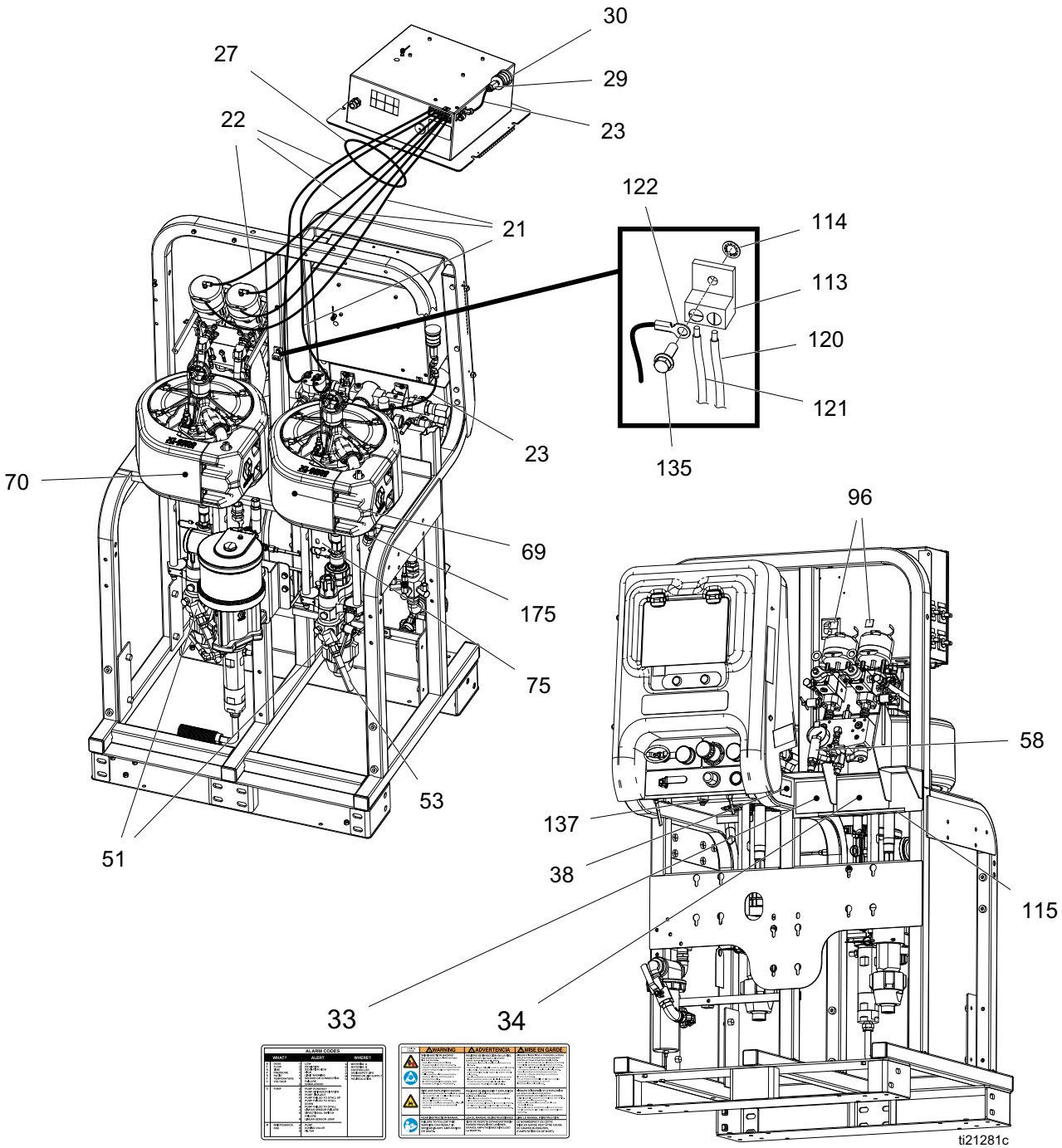
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Common Parts

Ref.	Part	Description	Qty.
1	- - -	FRAME	1
2	XL65D2	MOTOR, 6500, de-icing; see English manual 3A5523	2
2a	26C331	HOUSING, assy., linear sensor; English manual 3A5423	2
2b	273274	REED SWITCH	2
2c	15V719	SCREW	2
3	100133	WASHER, lock	8
4	100101	SCREW, cap, hex hd	8
5	26C688	AIR CONTROLS, module, upper; see **Air Controls Module (26C688) Parts**, page 86	1
6	26C689	MANIFOLD, inlet, air distribution; see **Air Inlet Manifold (26C689) Parts**, page 88	1
7	112958	NUT, hex, flanged	10
8	- - -	FLUID CONTROL, assy; see **Fluid Control Assembly Parts**, page 87	1
11	255771	BOX, control; see **Control Box (255771) Parts**, page 82	1
12	256177	SHROUD, front	1
13	16P815	SHROUD, rear	1
14	117623	NUT, cap (3/8-16)	4
15	240900	HOSE, coupled, 30 in.	2
16	111801	SCREW, cap, hex hd	10
17	121471	HINGE, friction, positioning	2
18	15T568	DOOR, control shroud	1
19	15T567	NUT, backup plate, hinge	4
20	112380	SCREW, mach, pan head	8
21	054172	TUBE, nylon, 1/4 OD, black; 10 ft	
22	054175	TUBE, nylon, 1/4 OD, natural; 7 ft	
23	C12508	TUBE, nylon, round; 1.3 ft	
24	160327	FITTING, union adapter; 90 deg.	2
27	114601	CONDUIT, flexible, non-metallic, 3 ft	
28	115313	PLUG, tube	8
29	121688	CONNECTOR; 3/8 npt x 3/8 tube ptc	1
30	108636	MUFFLER	1
31	114434	GAUGE, pressure, fluid, sst	1
32▲	15T468	LABEL, warning	2
33	16P856	LABEL, codes, alerts	1
34▲	15W598	LABEL, warning	1
35‡	15U656	LABEL, identification	1
38	293547	LABEL, identification	1
50	128093	AIR LINE, 1.0 in.	1
51	15M987	ELBOW; 60 deg.	2
53	H75003	HOSE, coupled, 1/2-14 npsm, 3 ft	3
54	H75002	HOSE, coupled, 1/2-14 npsm, 2 ft	1
55✓	H53806	HOSE, coupled, 3/8-18 npsm, 6 ft	2
56✓	15T396	TUBE, recirculation	2
57‡	551390	SIGHTGLASS, beaker, graduated	10
58	H73825	HOSE, coupled; 3/8-18 npsm; 25 ft	1
59	15B729	COUPLING; 3/8-18 npsm x 3/8-18 npt	1
60	262478	HOUSING, mixer	2
61‡	248927	KIT, mixer, element; pack of 25	1
62	150287	COUPLING; 1/4-18 npsm x 3/8-18 npt	1
63	H72510	HOSE, coupled; 1/4-18 npsm; 10 ft	1
64	XTR724	GUN	1
65	162024	COUPLING; 3/8-18 npt x 3/8-18 npt	1
75‡	206995	TSL; 1 qt.	1
95	15U655	LABEL, identification	1
96	15U654	LABEL, identification	1
101✓	114593	KNOB	2
103	257463	PUMP, solvent, Merkur; see manual	1
104	256169	PLATE, pump, solvent	1
105	- - -	SCREW, hex hd, flanged	2
106	112395	SCREW, cap, flanged	4
107	248208	HOSE, coupled; 4 ft	1
113	117666	TERMINAL, ground	1
114	100028	WASHER, lock	1
115	115901	TRIM, edge	2
120	- - -	WIRE, ground assy.	1
121	- - -	WIRE, electric; copper	
122	109025	RING, terminal	1
124		LABEL, pressure control	2
125‡✓	162449	NIPPLE, reducing; 1/2 x 1/4 npt	2
128	257150	ROD, tie	6
129	101712	NUT, lock	6
131	15H392	ROD, adapter	2
132	244819	COUPLING, assy.	2
133	244820	CLIP, hairpin with lanyard	2
134	197340	COVER, coupler	2
135	113796	SCREW, flanged, hex head	1
136‡	114958	TIE, strap	10
137‡	054760	TUBE, polyurethane, black; 3.5 ft	-
138	256561	PLATE, mounting, solvent pump	1
139	111799	SCREW, cap, hex head	4
140	256421	HOSE, siphon, assy.	1
141	181073	STRAINER, inlet	1
142		SCREW, cap	1
143	100081	BUSHING, pipe	1
144	157350	ADAPTER; 3/8 npt x 1/4 npt	1
145	15T258	TOOL, wrench, Xtreme	1
146✓	159239	NIPPLE, reducing; 1/2 x 3/8 npt	1
147‡	17L724	FLASH DRIVE, USB	1
156‡	126786	WRENCH, restrictor	1
175	105281	3/4 45 degree swivel	1
176	116395	SWIVEL, elbow, 1/4 x 1/4	1
178	17Y184	CABLE, GCA, M12-5P	2

▲ *Replacement safety labels, tags, and cards are available at no cost.*

‡ *Not shown.*

✓ *Not assembled.*

Parts Varying by Pump Set

See **Models**, page 9, to determine which pump set is equipped on your system.

XM1_ _ _ Models

Ref.	Part	Description	XM Plural Component Sprayer Models	
			XM1A00	XM1D00
52	117623	NUT, cap		
66	L250C4	LOWER, A side; see English manual 311762	1	1
	L250C3	LOWER, A side (without filter); see English manual 311762		
67	L220C4	LOWER, B side; see English manual 311762	1	1
	L220C3	LOWER, B side (without filter); see English manual 311762		
69	17P248	LABEL, motor, A side	1	1
70	17P249	LABEL, motor, B side	1	1
76	121295	SCREW, cap, socket head		
77	- - -	LABEL, system	1	
	- - -			1
80	158491	NIPPLE; 1/2 npt	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	262522	CARRIAGE, remote mix manifold		
92	113796	SCREW, flanged, hex head	1	1
93	111801	SCREW, cap, hex head		
94	113498	VALVE, relief; 110 psi (0.76 MPa, 7.6 bar)	1	1
100✓	222200	VALVE, restrictor	2	2
102✓	156849	PIPE, nipple; 3/8 npt	2	2
108	- - -	LABEL, XM50	1	1
	- - -	LABEL, XM70		
112	- - -	CABLE, CAN, IS, display to USB; female B/female B	1	
116†	158683	ELBOW, 90 deg.		
126	H42506	HOSE, coupled, 4500 psi	1	1
128‡	224458	STRAINER, pump; 30 mesh (qty. of 2)	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.

XM3_ _ _ Models

Ref.	Part	Description	XM Plural Component Sprayer Models	
			XM3A00	XM3D00
52	117623	NUT, cap		
66	L180C4	LOWER, A side; see English manual 311762	1	1
	L180C3	LOWER, A side (without filter); see English manual 311762		
67	L145C4	LOWER, B side; see English manual 311762	1	1
	L145C3	LOWER, B side (without filter); see English manual 311762		
69	17U825	LABEL, motor, A side	1	1
70	17U826	LABEL, motor, B side	1	1
76	121295	SCREW, cap, socket head		
77	- - -	LABEL, system	1	
	- - -			1
80	158491	NIPPLE; 1/2 npt	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	262522	CARRIAGE, remote mix manifold		
92	113796	SCREW, flanged, hex head	1	1
93	111801	SCREW, cap, hex head		
94	116643	VALVE, relief; 90 psi (0.63 MPa, 6.3 bar)	1	1
100✓	222200	VALVE, restrictor	2	2
102✓	156849	PIPE, nipple; 3/8 npt	2	2
108	- - -	LABEL, XM50		
	- - -	LABEL, XM70	1	1
112	- - -	CABLE, CAN, IS, display to USB; female B/female B	1	
116†	158683	ELBOW, 90 deg.		
126	H42506	HOSE, coupled, 4500 psi	1	1
128‡	224458	STRAINER, pump; 30 mesh (qty. of 2)	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.

XM5_ _ _ Models

Ref.	Part	Description	XM-50 Plural Component Sprayer Models	
			XM5A00	XM5D00
52	117623	NUT, cap	2	2
66	L250C4	LOWER, A side; see English manual 311762	1	1
	L250C3	LOWER, A side; see English manual 311762		
67	L220C4	LOWER, B side; see English manual 311762	1	
	L220C3	LOWER, B side; see English manual 311762		
69	17P248	LABEL, motor, A side	1	1
70	17P249	LABEL, motor, B side	1	1
76	121295	SCREW, cap, socket head	8	8
77	- - -	LABEL, system	1	
	- - -	LABEL, system		1
80	158491	NIPPLE; 1/2 npt	5	5
81	100361	PLUG, pipe	2	2
82	15R529	BLOCK, fluid distribution	2	2
83	156684	UNION, adapter	2	2
84	121139	O-RING; PTFE	2	2
85	15J594	HOUSING, check valve	2	2
86	15J916	HANDLE, blue	1	1
87	15R380	HANDLE, green	1	1
88	255747	CARTRIDGE, valve	2	2
89	262522	CARRIAGE, remote mix manifold	1	1
92	113796	SCREW, flanged, hex head	1	1
93	111801	SCREW, cap, hex head	8	8
94	113498	VALVE, relief; 110 psi (0.76 MPa, 7.6 bar)	1	1
100✓	222200	VALVE, restrictor	3	3
102❖	156849	PIPE, nipple; 3/8 npt	3	3
108	- - -	LABEL, XM50	1	1
	- - -	LABEL, XM70		
112	- - -	CABLE, CAN, IS, display to USB; female B/female B	1	
116†	158683	ELBOW, 90 deg.		
126	H42506	HOSE, coupled, 4500 psi		
128‡	224458	STRAINER, pump; 30 mesh (qty. of 2)	1	1
152	162505	UNION, swivel; 3/8 male x 1/2 female npt	1	1
153	155699	ELBOW, street; 3/8-18 npt	1	1
154	159239	NIPPLE, pipe; 1/2 x 3/8 npt	1	1
155	164672	ADAPTER	1	1
174	16N367	COUPLING, 1/2 x 3.5 in.	1	1

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

‡ *Not shown.*

✓ *Not assembled.*

❖*Assemble remote restrictor valve.*

XM7_ _ _ Models

Ref.	Part	Description	XM-50 Plural Component Sprayer Models	
			XM7A00	XM7D00
52	117623	NUT, cap	2	2
66	L180C4	LOWER, A side; see English manual 311762	1	1
	L180C3	LOWER, A side; see English manual 311762		
67	L145C4	LOWER, B side; see English manual 311762	1	1
	L145C3	LOWER, B side; see English manual 311762		
69	17U825	LABEL, motor, A side	1	1
70	17U826	LABEL, motor, B side	1	1
76	121295	SCREW, cap, socket head	8	8
77	- - -	LABEL, system	1	
	- - -	LABEL, system		1
80	158491	NIPPLE; 1/2 npt	5	5
81	100361	PLUG, pipe	2	2
82	15R529	BLOCK, fluid distribution	2	2
83	156684	UNION, adapter	2	2
84	121139	O-RING; PTFE	2	2
85	15J594	HOUSING, check valve	2	2
86	15J916	HANDLE, blue	1	1
87	15R380	HANDLE, green	1	1
88	255747	CARTRIDGE, valve	2	2
89	262522	CARRIAGE, remote mix manifold	1	1
92	113796	SCREW, flanged, hex head	1	1
93	111801	SCREW, cap, hex head	8	8
94	116643	VALVE, relief; 90 psi (0.63 MPa, 6.3 bar)	1	1
100✓	222200	VALVE, restrictor	3	3
102❖	156849	PIPE, nipple; 3/8 npt	3	3
108	- - -	LABEL, XM50		
	- - -	LABEL, XM70	1	1
112	- - -	CABLE, CAN, IS, display to USB; female B/female B	1	
116†	158683	ELBOW, 90 deg.		
126	H42506	HOSE, coupled, 4500 psi		
128‡	224458	STRAINER, pump; 30 mesh (qty. of 2)	1	1
152	162505	UNION, swivel; 3/8 male x 1/2 female npt	1	1
153	155699	ELBOW, street; 3/8-18 npt	1	1
154	159239	NIPPLE, pipe; 1/2 x 3/8 npt	1	1
155	164672	ADAPTER	1	1
174	16N367	COUPLING, 1/2 x 3.5 in.	1	1

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

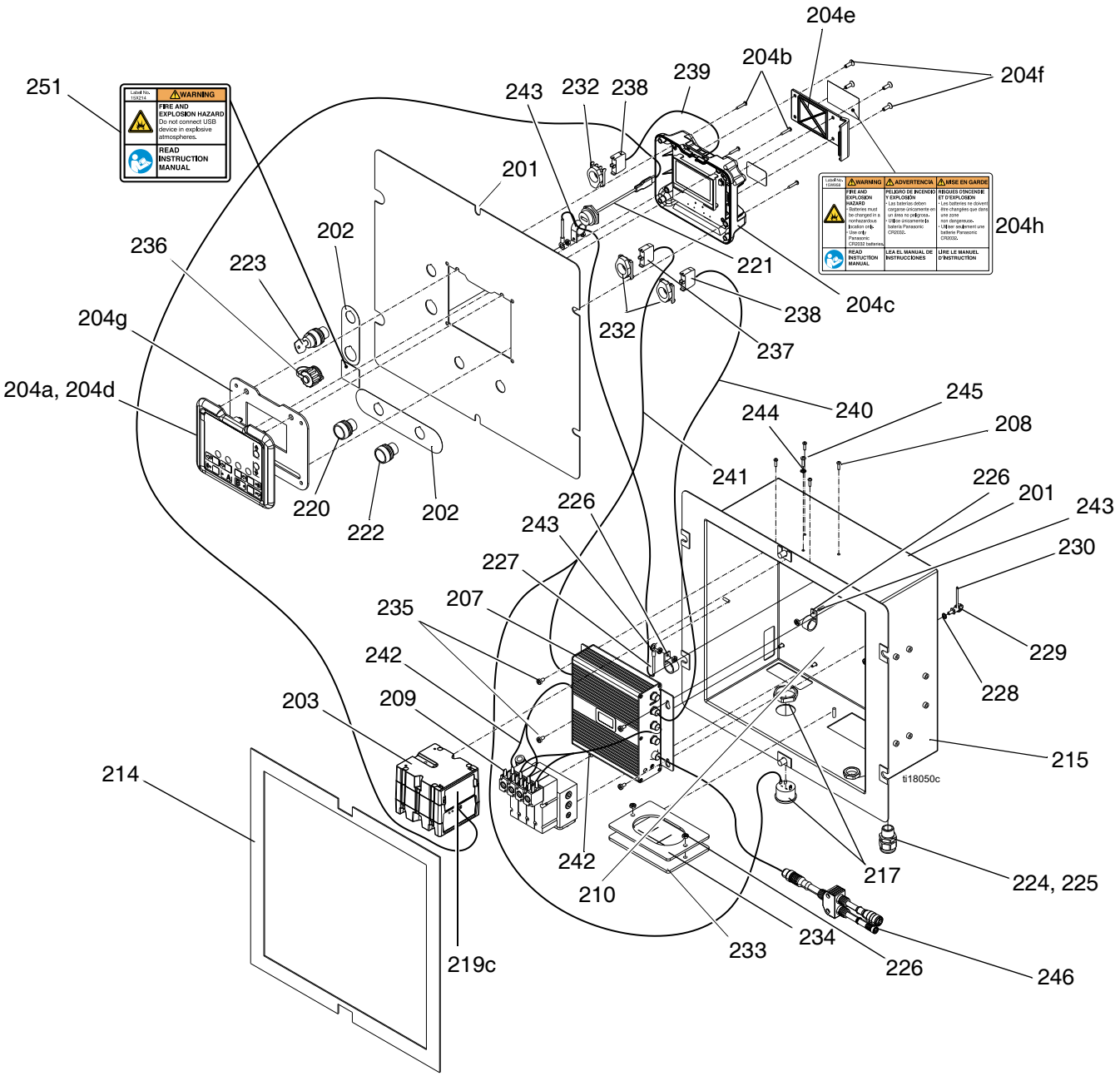
‡ *Not shown.*

✓ *Not assembled.*

❖*Assemble remote restrictor valve.*

Control Box (255771) Parts

Air Power and Electric Power Versions



Control Box (255771) Parts List

Ref.	Part	Description	Qty.
201	- - -	BOX, control	1
202	- - -	LABEL, control display	1
203†	262641	KIT, replacement, USB; includes 219 and 206	1
204●	257484	MODULE, display, kit	
204a	15M483	SHIELD, membrane, display (qty. 10)	1
204b	- - -	SCREW, pan head; #6 x 7/8 in.	4
204c●	288997	CASE, rear, display module, IS version	1
204d	255727	CASE, front, data module	1
204e	277463	COVER, access, low level display	1
204f	113768	SCREW, socket, flat head	4
204g	15R458	GASKET, control, front panel	1
204h▲	15W958	LABEL, warning, battery	1
205†	262642	KIT, replacement, display; includes 204 and 206	1
206	17E110	TOKEN, software	1
207†	262643	KIT, replacement, FCM; includes 218 and 206	1
208	- - -	SCREW, pan head	4
209	256555	MODULE, solenoid, IS version	1
209a	121636	VALVE, solenoid, din connector	4
209b	15A798	GASKET, solenoid, outlet	1
209c	15A799	GASKET, solenoid, inlet/exhaust	1
210	106084	SCREW, machine, pan head	2
214	15R379	GASKET, box, control	1
215	- - -	LABEL	1
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, green	1
221	15R324	HARNESS, USB, plug/bulkhead; 32 in.	1
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	- - - - -	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	3
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 receptacle	1
237	120494	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	17X475	CABLE, splitter	2
251▲		LABEL, warning, USB	1
	15X214	English	
	15X393	All languages	
252‡	122829	CONDUIT; 0.75 ft.	-

▲ *Replacement safety labels, tags, and cards are available at no cost.*

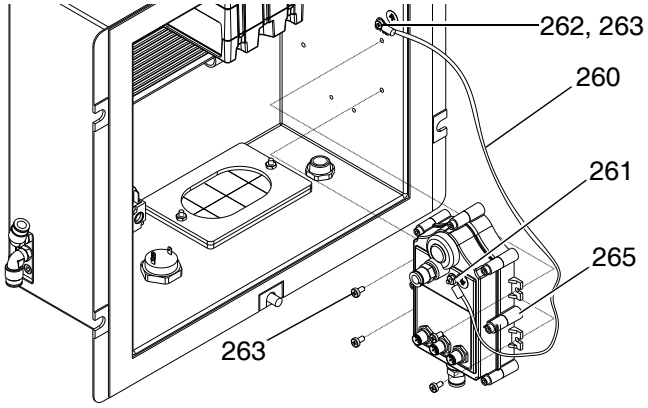
‡ *Not shown.*

● *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.*

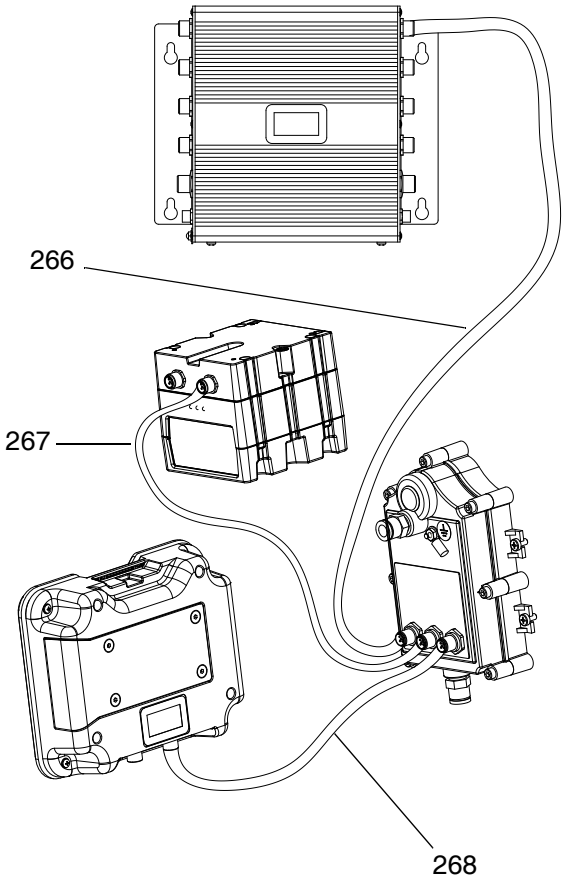
Control Box Power Supply Options

Alternator Assembly

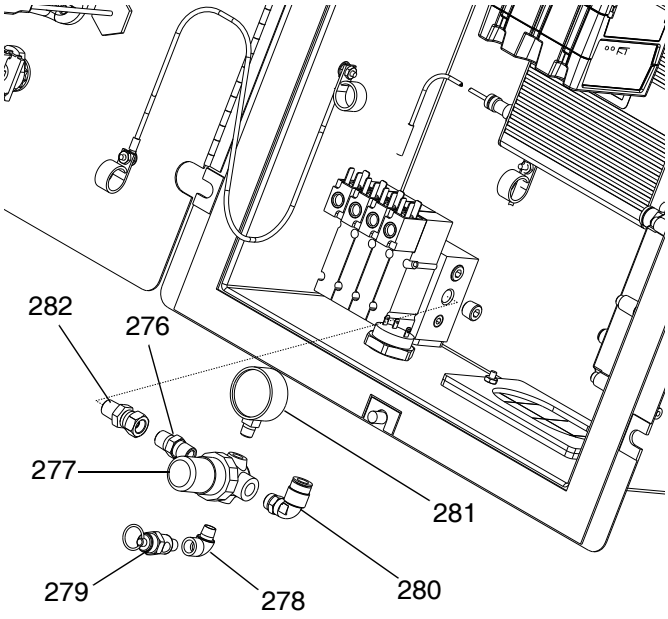


Ref.	Part	Description	Qty.
260	15B090	WIRE, grounding, door	1
261	100284	NUT, hex	1
262	102063	WASHER, lock; carbon steel	1
263	110637	SCREW, machine pan head	5
264‡	C12508	TUBING, round; nylon; 5.0 ft	
265	255728	ALTERNATOR, module; see page 89	1
266	15V778	CABLE, CAN, IS, female B/female B; 20 in.	1
267	15V782	CABLE, CAN, IS, male B/female B; 20 in.	1
268	15V783	CABLE, CAN, IS, female A/male B; 39 in.	1

Alternator Assembly Cable Connections

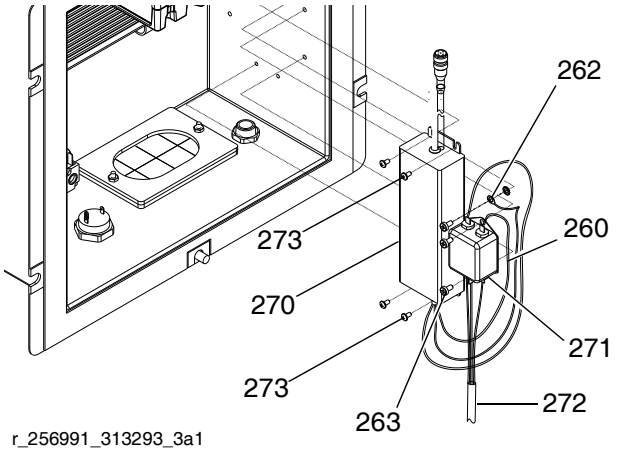


Air Regulator Assembly



Ref.	Part	Description	Qty.
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 1/8 npt(m); carbon steel	1
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



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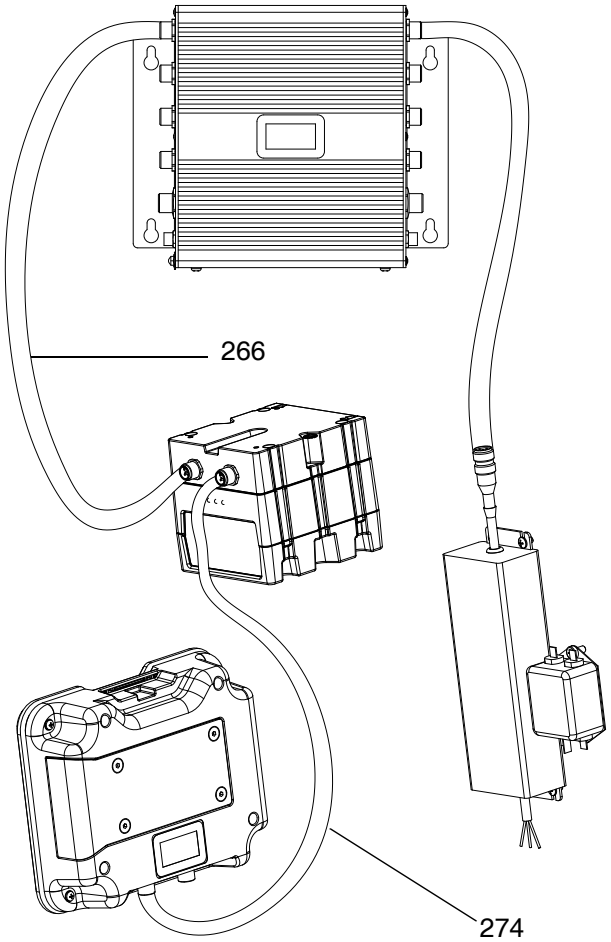
Ref.	Part	Description	Qty.
260	15B090	WIRE, grounding, door	1
262	102063	WASHER, lock; carbon steel	1
263	110637	SCREW, machine pan head	3
266	15V778	CABLE, CAN, IS, female B/female B; 20 in.	1
270	15V747	POWER SUPPLY; 24V, 2.5A, 60W	1
271	115306	FILTER, power supply	1
272✕		CABLE, power, control box	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 B; 39.4 in.	1

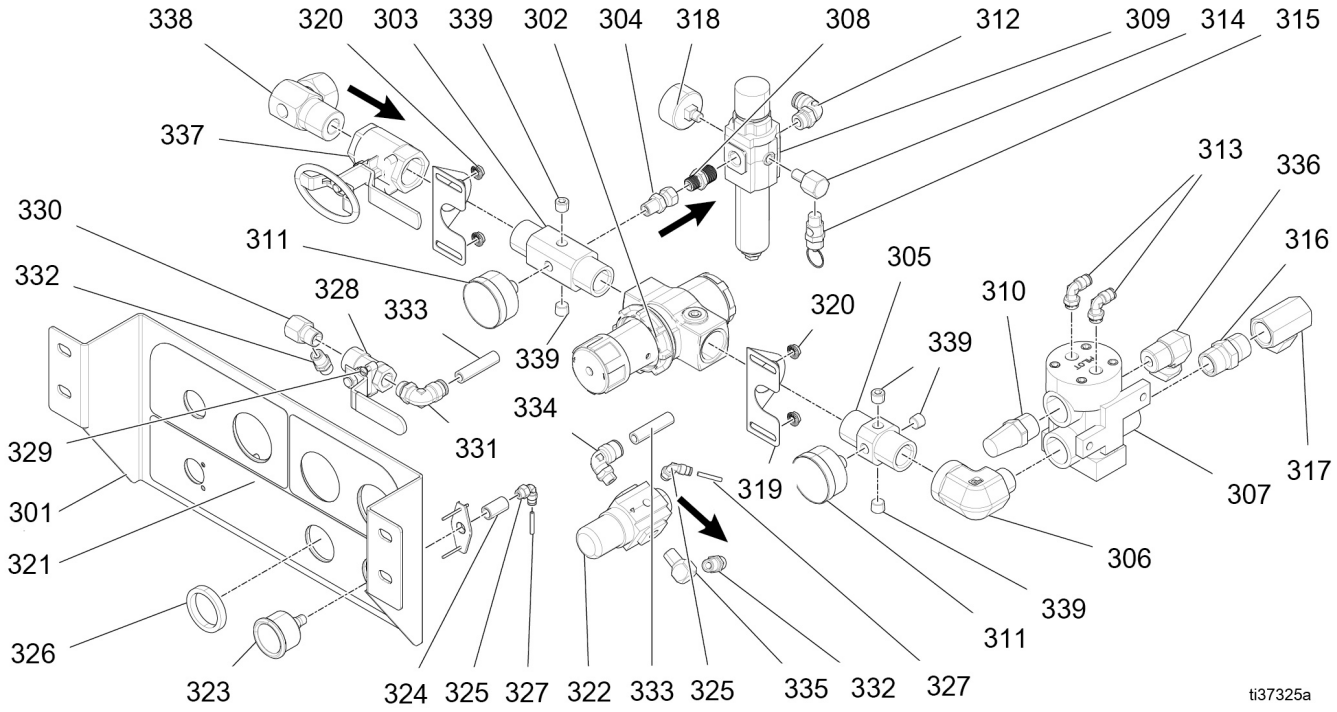
✕ *Used on XM_A_ _ models only.*

‡ *Not shown.*

Wall Power Supply Assembly Cable Connections



Air Controls Module (26C688) Parts

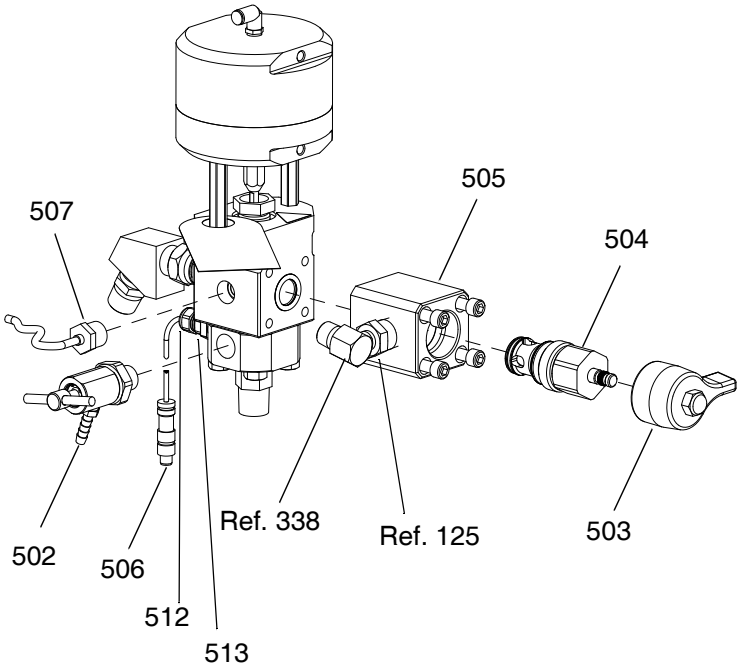


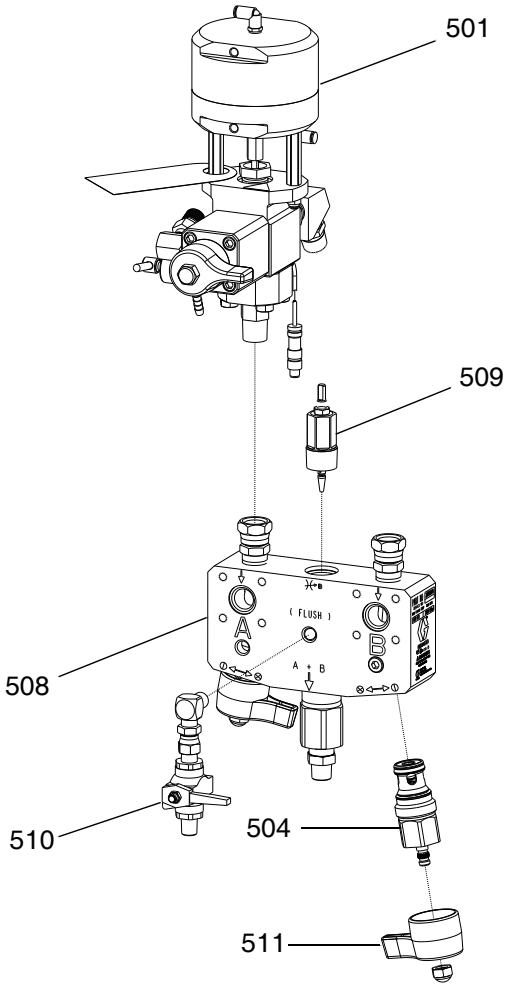
Ref.	Part	Description	Qty.
301	26C797	BRACKET, air controls	1
302	132186	REGULATOR, 1 in.	1
303	18B018	MANIFOLD, air, 1 in. m x 1 in. m, long	1
304	156823	FITTING, union, swivel	1
305	18B019	MANIFOLD, air, 1 in. m x 1 in. m, short	1
306	132185	FITTING, elbow, 3/4 m x 1 in. f	1
307	15R485	VALVE, dual pilot	1
308	157350	ADAPTER	1
309	15R488	REGULATOR, air	1
310	15R486	MUFFLER, bronze sintered	1
311	101689	GAUGE, press, air	2
312	114316	FITTING, elbow, male, swivel	1
313*	114109	FITTING, elbow, male, swivel, 1/4 OD tube	2
314	158962	FITTING, elbow, st pipe, rdcg	1
315	116643	VALVE, safety, relief, air	1
316	119992	FITTING, pipe, nipple, 3/4 x 3/4 npt	1
317	156589	FITTING, union, adapter, 90 deg	1
318	113911	GAUGE, pressure, air	1
319	- - - - -	BRACKET, adj, small, air controls	2
320	115942	NUT, hex, flange head	4

Ref.	Part	Description	Qty.
321	18B073	LABEL, control, air, xm-skid	1
322	116513	REGULATOR, air	1
323	121424	GAUGE, pressure, panel mount, 1.5 in.	1
324	100451	COUPLING	1
325	114151	FITTING, elbow, male, swivel	2
326	116514	NUT, regulator mnt	1
327	- - - - -	TUBE, pe, rnd	0.6
328	121457	VALVE, ball, air, panel mounted	1
329	100264	SCREW, mach, pnh	2
330	164259	FITTING, elbow, street	1
331	114114	FITTING, elbow, male, swivel	1
332	162453	FITTING,(1/4 npsm x 1/4 npt)	2
333	- - - - -	TUBE, polyurethane, rnd, black	2
334	114128	FITTING, elbow, male, swivel	1
335	100840	FITTING, elbow, street	1
336	160327	FITTING, union adapter,90 deg	1
337	18B020	VALVE, ball, 1 in.	1
338	102806	FITTING, union, adapter, 90 deg	1
339	- - - - -	PLUG, pipe	5
340	- - - - -	TAPE, tfe, sealant	1
341	- - - - -	SEALANT, pipe, sst	1

* *Series A models used fitting 114469 for a 5/32 signal line tube.*

Fluid Control Assembly Parts





Ref.	Part	Description	Qty.
501✚	255478	VALVE, dosing	2
502★	245143	VALVE, sampling	2
503✿	15R381	HANDLE, valve, recirculation (black)	2
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 (blue and green)	2
512	15T072	GRIP, cord	2
513	15T071	FITTING, thermo-well	2

✚ *See your Dosing Valve manual for more information.*

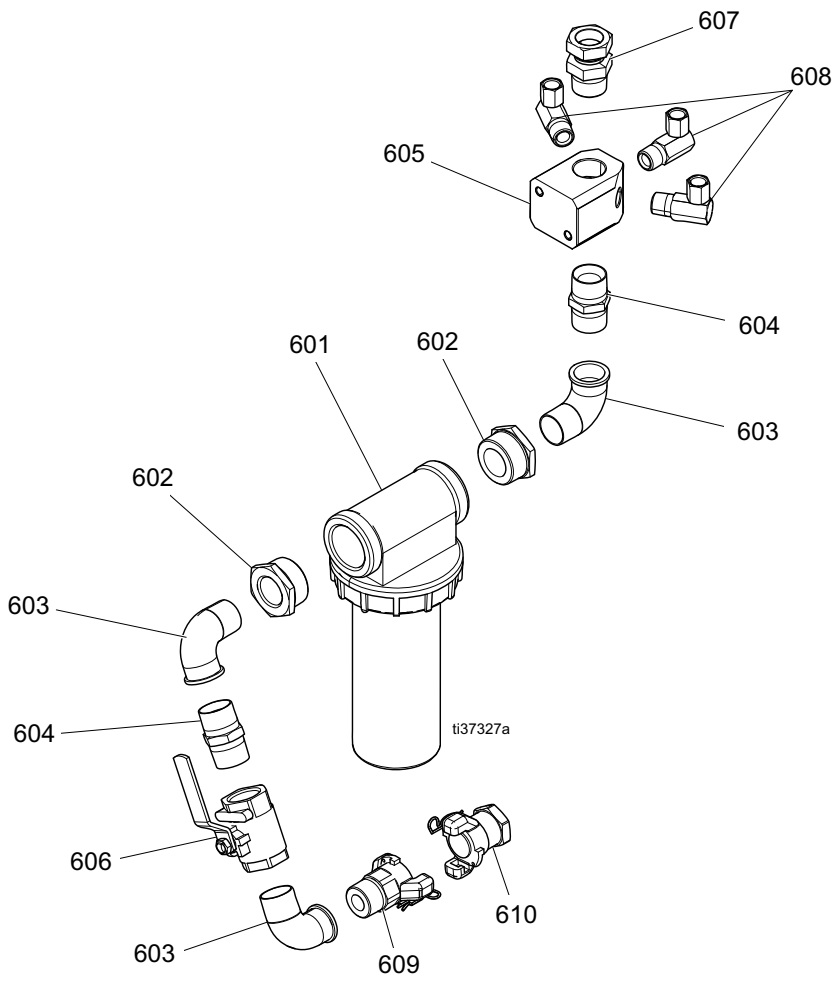
★ *See your Xtreme Displacement Pump manual for more information. Repair kit 245145 is available for order.*

✿ *See your High Flow Severe Duty Shutoff Check Valve manual for more information.*

◆ *See your XM Mix Manifold Kits manual for more information and part numbers.*

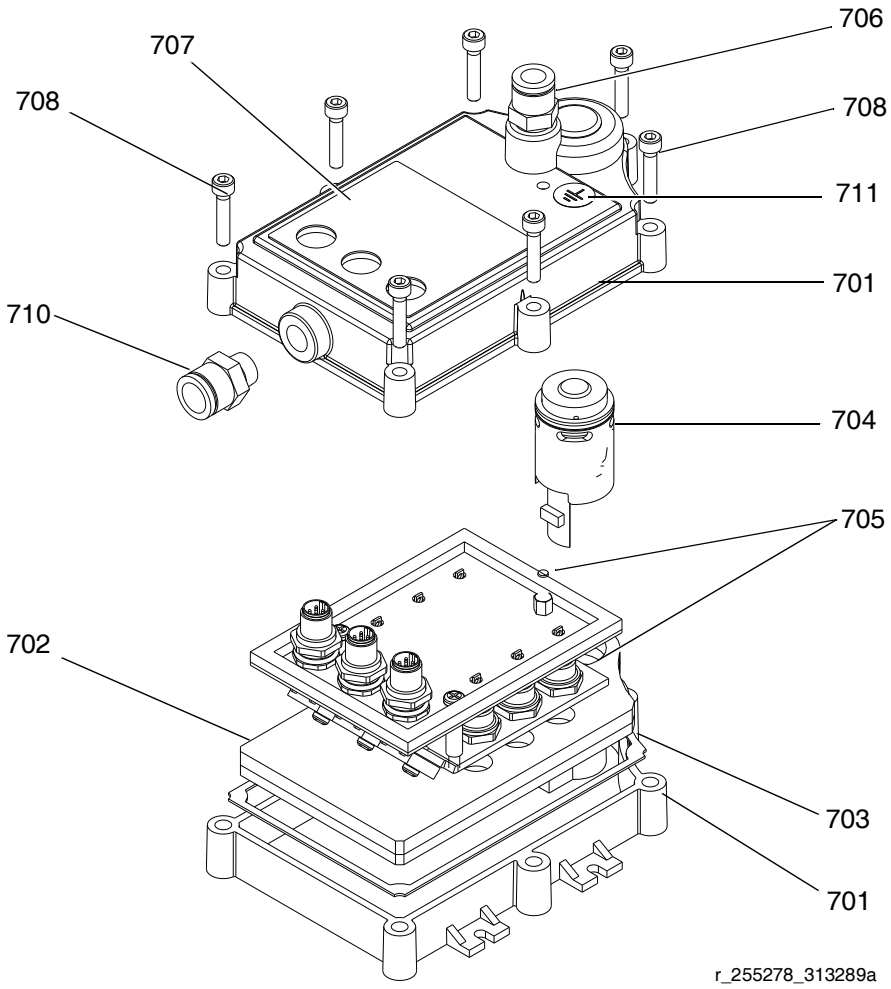
* *Seal kit 256239 is available for order.*

Air Inlet Manifold (26C689) Parts



Ref.	Part	Description	Qty.
601	16T236	FILTER, air, 1-1/4, auto chain	1
601a	106204	FILTER ELEMENT	1
602	C19668	BUSHING, 1-1/4 x 1 npt carbon	2
603	110300	FITTING, elbow, street, pipe	3
604	158585	FITTING, nipple	1
605	18B021	MANIFOLD, air distribution	1
606	113163	VALVE, ball, vented	1
607	160022	FITTING, swivel	1
608	161037	FITTING, elbow, swivel	3
609	127784	FITTING, universal, claw	1
610	127785	FITTING, universal, claw	1

Alternator Module (255728) Parts

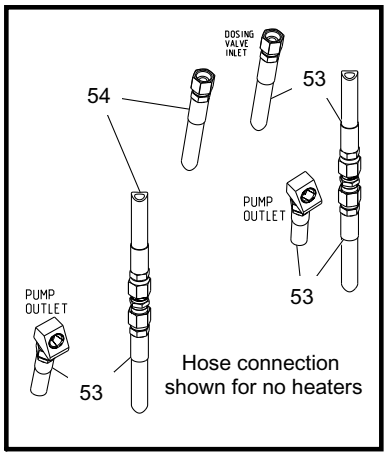


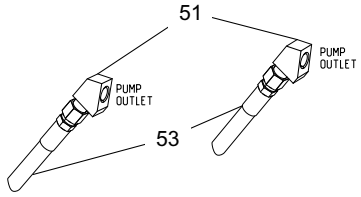
Ref.	Part	Description	Qty.
701	- - -	HOUSING, upper and lower	1
702	- - -	GASKET, stacked, internal	1
703	- - -	GASKET, housing	1
704	257147	TURBINE	1
705	- - -	BOARD, assy.	1
706	122161	FITTING, air	1
707▲	15R337	LABEL, warning	1
708	114380	SCREW, cap, socket head	7
709❊	C12508	TUBING, nylon; 2 ft.	-
710	122848	FITTING, air	1
711▲	172953	LABEL, grounding	1

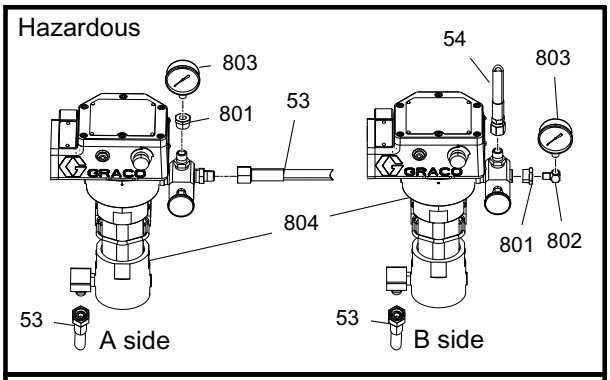
▲ *Replacement safety labels, tags, and cards are available at no cost.*

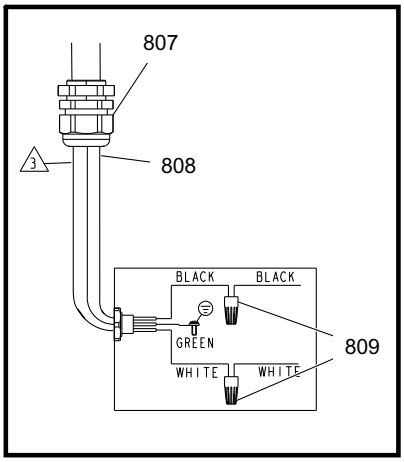
❊ *Not shown.*

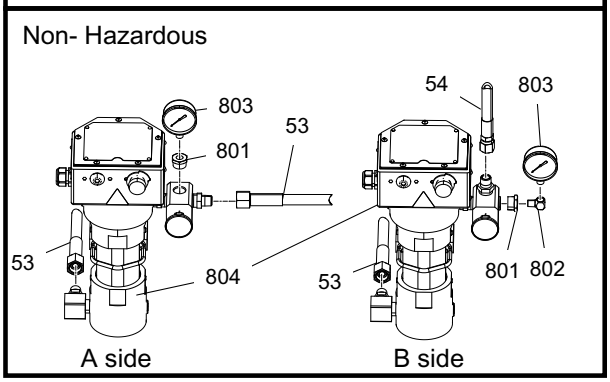
Primary Fluid Heater Parts







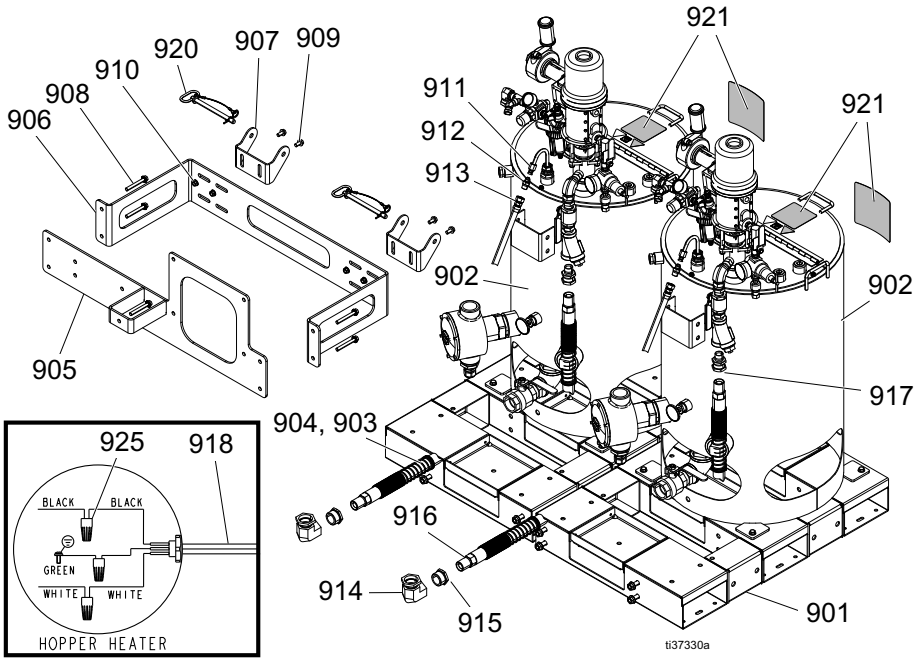




Ref.	Part	Description	Qty.			
			240V		480V	
			Standard	Hazardous	Standard	Hazardous
			A	B	C	D
51	15M987	FITTING, elbow, 60 degree	2	2	2	2
53	H75003	HOSE, cpld, 7250 psi, 0.5 ID, 3 ft	3	3	3	3
54	H75002	HOSE, cpld, 7250 psi, 0.5 ID, 2 ft	1	1	1	1
801	C19681	BUSHING, pipe	2	2	2	2
802	100840	FITTING, elbow	1	1	1	1
803	551387	GAUGE, fluid pressure	2	2	2	2
804*	24W248	HEATER, hf, hazardous, thermostat				2
	26C476	HEATER, hf, hazardous, tstat, 240V, XMS		2		
	24P016	HEATER, hf, non-hazardous, tstat, 240V, XMS	2			
	26C475	HEATER, hf, non-hazardous, tstat, 480V, XMS			2	
807	116171	BUSHING, strain relief	2			2
808	15T967	CABLE, heater, fluid, 3cond, 12 GA	2			2
809	122032	NUT, wire	4			4
810	- - - - -	SEALANT, pipe, sst	1	1	1	1

* See your Viscon HF heater manual for parts and repair.

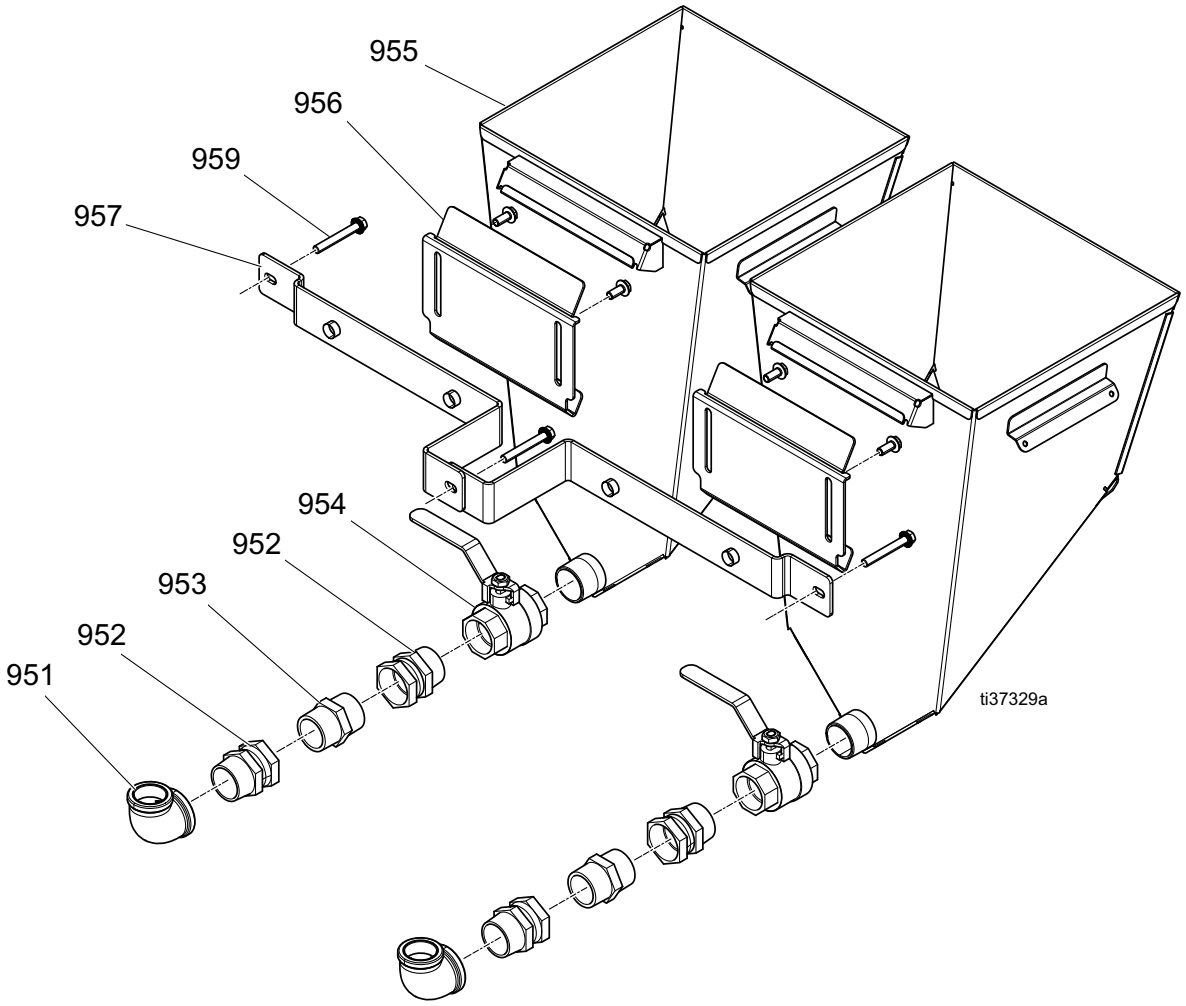
25-Gallon Hopper Parts



Ref.	Part	Description	Qty.	
			240V	480V
			A	B
901	26C549	BASE, hopper stand	2	2
902*	26C482	HOPPER, XPS	2	
	26C279	HOPPER, XPS, 480V		2
903	- - - - -	SCREW, cap, flng hd	8	8
904	112731	NUT, hex, flanged, 1/2-13	8	8
905	- - - - -	BRACKET, accessory, rear, XM	1	1
906	- - - - -	BRACKET, support, rear, XM	1	1
907	- - - - -	BRACKET, attachment, tank	2	2
908	125626	SCREW, hex hd, flanged	5	5
909	112395	SCREW, cap, flng hd	12	12
910	112958	NUT, hex, flanged, 3/8-16	12	12
911	17V987	TUBE, recirculation	2	2
912	112100	ADAPTER, male	2	2
913	H53806	HOSE, cpld, 5600 psi, 0.375 ID, 6 ft	2	2
914	121571	FITTING, elbow, female, swivel, 1 1/4	2	2
915	C19662	BUSHING, 1-1/4 x 1 npt cs	2	2
916	237522	HOSE, coupled	2	2
917	16W967	FITTING, swivel, 3/4 npt x 1 npsm	2	2
918	17X398	HARNESS, sw2 to hopper a	2	2
919	109131	HOSE, coupled, 061089, 10f	2	2
920	115473	PIN, hitch	2	2
921	15R424	LABEL, A-B identification	1	1
922	- - - - -	SEALANT, pipe, sst	1	1
925	122032	NUT, wire	6	6

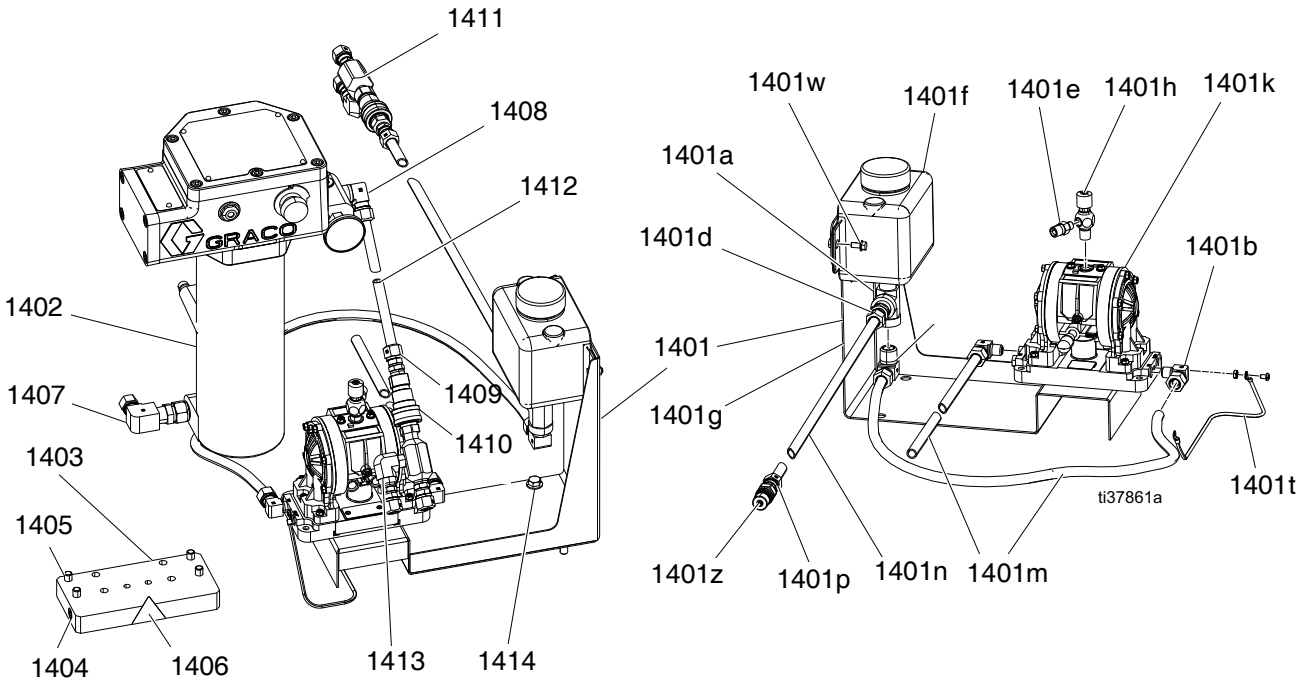
* See your double wall stainless lined hopper manual for parts and repair information.

10-Gallon Hopper Parts



Ref.	Part	Description	Qty.
951	126939	FITTING, elbow, 90 degree, female, reducing	2
952	113864	UNION, swivel, 1 1/2 npt	4
953	121441	FITTING, nipple, hex, 1 1/2 npt	2
954	121440	VALVE, ball, 1 1/2 npt	2
955	17E114	HOPPER, weldment, Xtreme	2
956	17G707	BRACKET, hopper, XM	2
957	256252	BRACKET, hopper, b-mt, upper, painted	2
958	111192	SCREW, hex hd, flanged	4
959	121488	SCREW, hex hd, flanged	3
960	- - - - -	SEALANT, pipe, sst (not shown)	1

Water-Jacketed Heated Hose



Ref.	Part	Description	Qty.
1401	- - - - -	PUMP, XP-HF, htd-hose-re-circ	1
1401a	108126	FITTING, tee, street	1
1401b	126897	FITTING, elbow, 1/2 tube x 1/4 nptm	2
1401c	126898	FITTING, elbow, 1/2 tube x 1/2 nptm	1
1401d	126899	FITTING, 1/2 tube x 1/2 nptm	1
1401e	16D939	FITTING, nipple, reducing	1
1401f	16R871	BOTTLE, overflow, 1/2 npt	1
1401g	16T745	BRACKET, water circ, mount, paint	1
1401h	206264	VALVE, needle	1
1401k	24P835	PUMP, acetal, w/pvdf check, Husky	1
1401w	113161	SCREW, flange, hex hd	2
1401m	17N910	TUBE, 34 in. x 0.5 o.d., nylon	2
1401n	17N911	TUBE, blue, 0.5 o.d., nylon	1
1401p	126900	FITTING, 1/2 tube x 3/8 nptm	1
1401z	- - - - -	FITTING, nipple, quick coupling	1
1401t	17N595	WIRE, ground, door to enclosure	1
1402	245863	HEATER, paint	1
1403	16T294	PLATE, heater transfer, pfp 2k	1
1404	100721	PLUG, pipe	2
1405	112785	SCREW, hex hd, flanged	4

Ref.	Part	Description	Qty.
1406	189285	LABEL, safety, burn	1
1407	126896	FITTING, elbow,1/2 tube x 1/2 nptf	1
1408	126898	FITTING, elbow,1/2 tube x 1/2 nptm	1
1409	126900	FITTING, 1/2 tube x 3/8 nptm	1
1410	17D306	FITTING, coupler, quick coupling	1
1411	17P594	FITTING, assy, hose coupler, split	1
1412	17P759	TUBE, 48 in. x 0.5 o.d., nylon	1
1413	17S051	FITTING, assy, hose nipple, split	1
1414	112395	SCREW, cap, flng hd	2
1415	- - - - -	SEALANT, pipe, sst	1
*	- - - - -	TAPE, tfe, sealant	1
* Not Shown			

Repair and Spare Parts Reference

Ref.	Part	Description	Qty.	Part of Assembly
2	XL65D2	Motor w/linear transducer	2	Motor
2a	26C331	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	XTR724	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	25D247	Repair kit with PTFE packings	1	XM50 “A” pump
66	25D237	Repair kit with UHWPE/leather packings	1	XM50 “A” pump
66	L180C4	Xtreme displacement pump L180C3 w/o filter	1	XM70 "A" pump
66	25D245	Repair kit with PTFE packings	1	XM70 "A" pump
66	25D235	Repair kit with UHWPE/leather packings	1	XM70 "A" pump
67	L220C4	Xtreme displacement pump L220C3 w/o filter	1	XM50 "B" pump
67	25D246	Repair kit with PTFE packings	1	XM50 "B" pump
67	25D236	Repair kit with UHWPE/leather packings	1	XM50 "B" pump
67	L145C4	Xtreme displacement L145C3 w/o filter	1	XM70 "B" pump
67	25D244	Repair kit with PTFE packings	1	XM70 "B" pump
67	25D234	Repair kit with UHWPE/leather packings	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	17L724	Flash drive for USB download	1	Control
204a	15M483	Membrane shields, package of 10	1	Control
209a	121636	Solenoid valve, individual replacement valve with DIN	4	Control
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	234131	Rebuild kit; includes seals, stem, seat, and air spring	2	Dosing valve
502	245143	Sample valve; complete valve	2	Dosing valve
502a	245145	Sample valve kit; includes o-rings, ball, seat, clip	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

Ref.	Part	Description	Qty.	Part of Assembly
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 your hopper manual for more information.

Hopper Heater Kit (240V), 256257

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

Universal Hopper Mounting Kit, 256259

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

Twistork Agitator Kit, 256274

For mixing viscous materials held within a 20-gallon hopper. See your feed pump and agitator kit manual for more information.

T2 Feed Pump Kit, 256275

For supplying viscous material from a 20-gallon hopper to an XM sprayer. See your feed pump and agitator kit manual for more information.

5:1 Feed Pump Kit, 256276

For supplying viscous materials from a 20-gallon hopper to an XM sprayer. See your feed pump and agitator kit manual 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 your hopper manual 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 your feed pump and agitator kit manual 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 your feed pump and agitator kit manual 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 your hopper or hose heat circulation kit manual for more information.

Desiccant Dryer Kit, 256512

For use with 20-gallon hoppers. See your desiccant dryer kit manual for more information.

Caster Kit, 256262

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

Hose Rack Kit, 256263

For mounting to side, front, or back of XM sprayer frame. See your hose rack kit manual for more information.

Lower Strainer and Valve Kit, 256653

For straining material from a feed pump to an XM sprayer fluid inlet. See your lower strainer and valve kit manual for more information.

Electric Heated Hose Power Supply Kit, 256876

For monitoring and controlling fluid temperature in low-voltage heated hoses. See your electric heated hose power supply manual 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 your feed pump and agitator kit manual for more information.

Shutoff/Check Valve Kit, 255278

For replacing shutoff valve or check valve. See your alternator conversion kit manual for more information.

Alternator Conversion Kit, 256991

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

Mix Manifold Kit, 255684

See mix manifold manual for more information.

Remote Mix Manifold and Carriage Kit, 256980

For converting to a remote mix manifold kit with a protective guard. See your mix manifold manual 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 87.

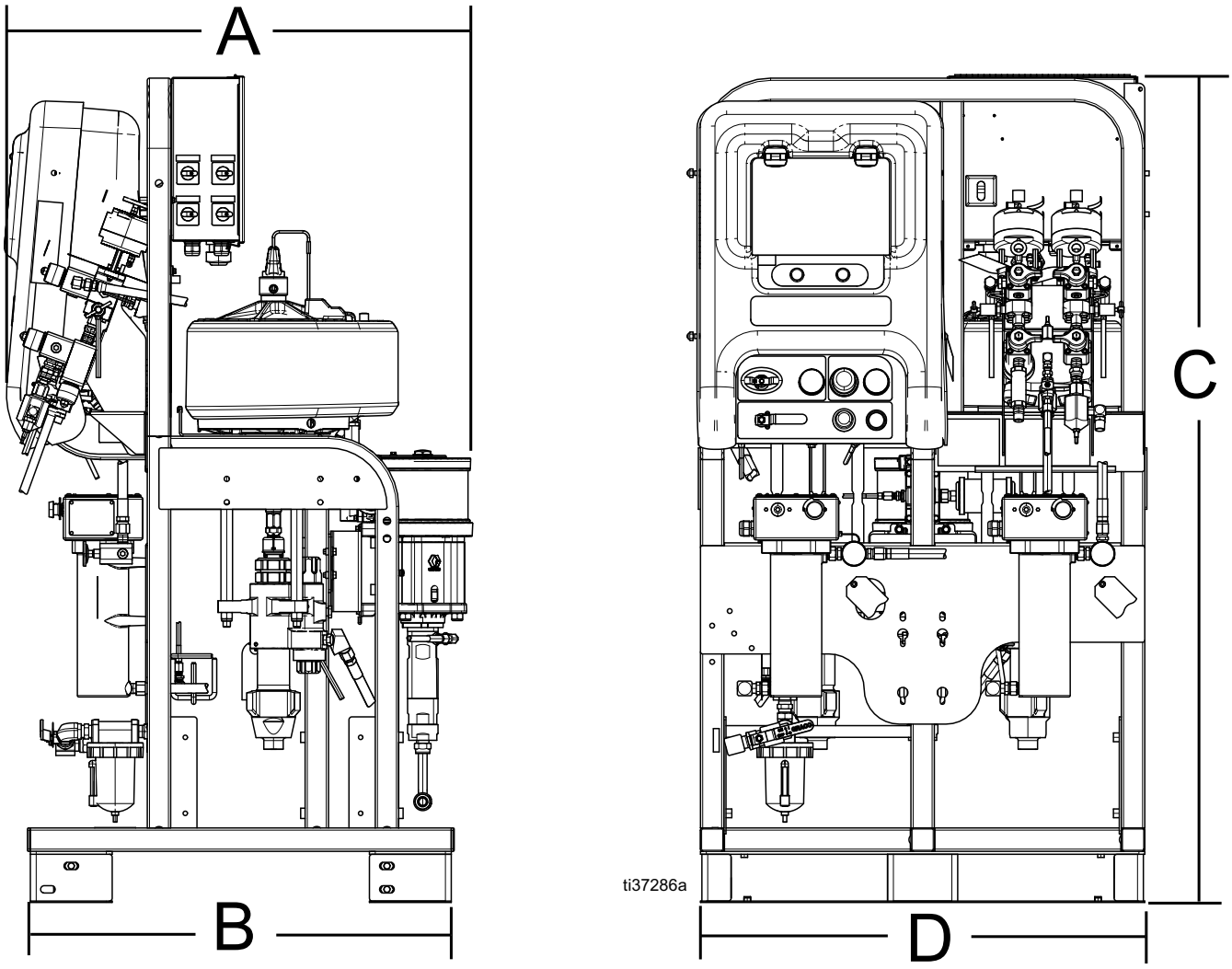
Xtreme Pump Wet Cup Wrench, 15T258

Xtreme Pump Filter Wrench, 16G819

XM Recirculation Kit, 273185

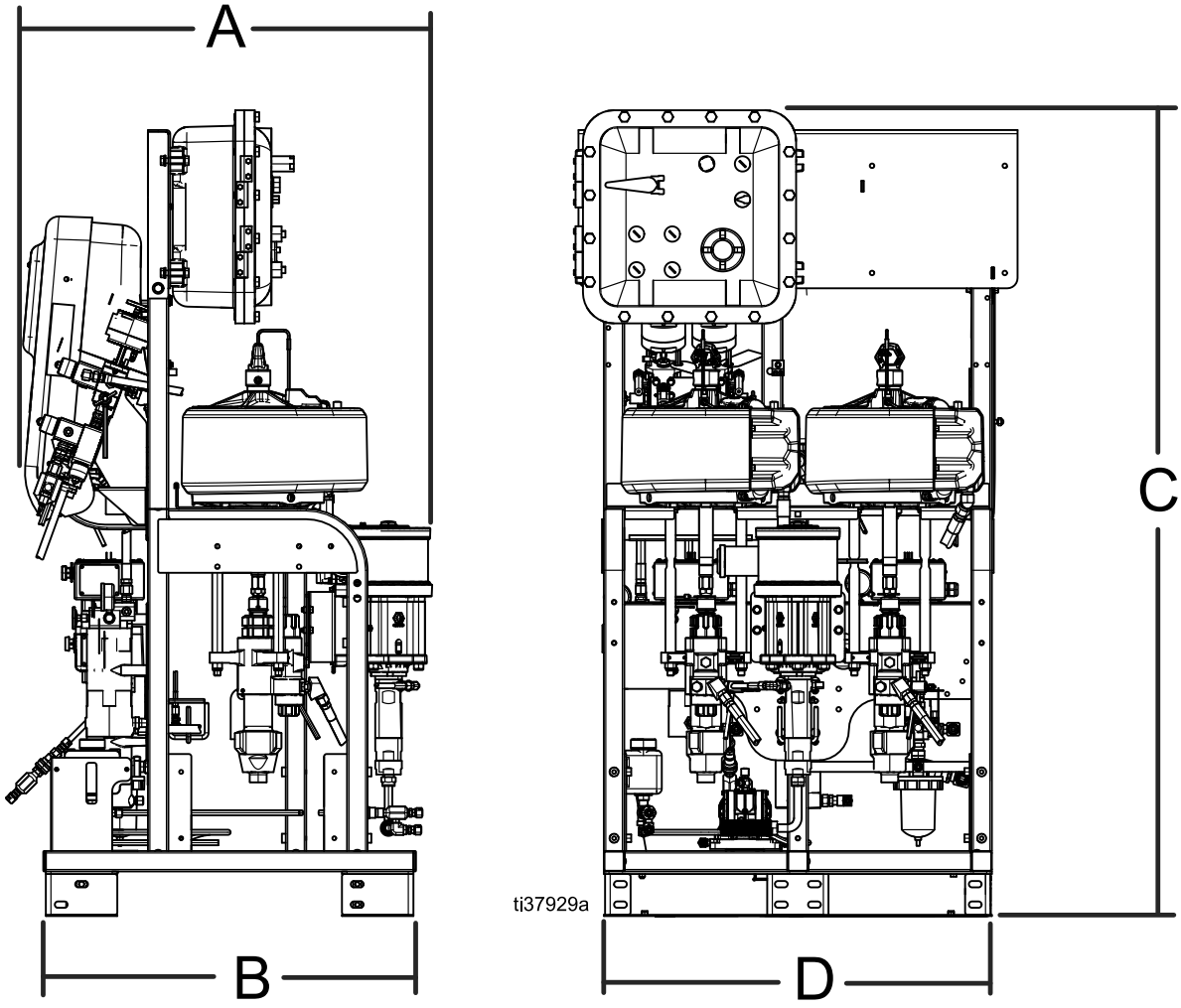
Dimensions

XM System Dimensions without Hoppers (Non-Hazardous Locations)



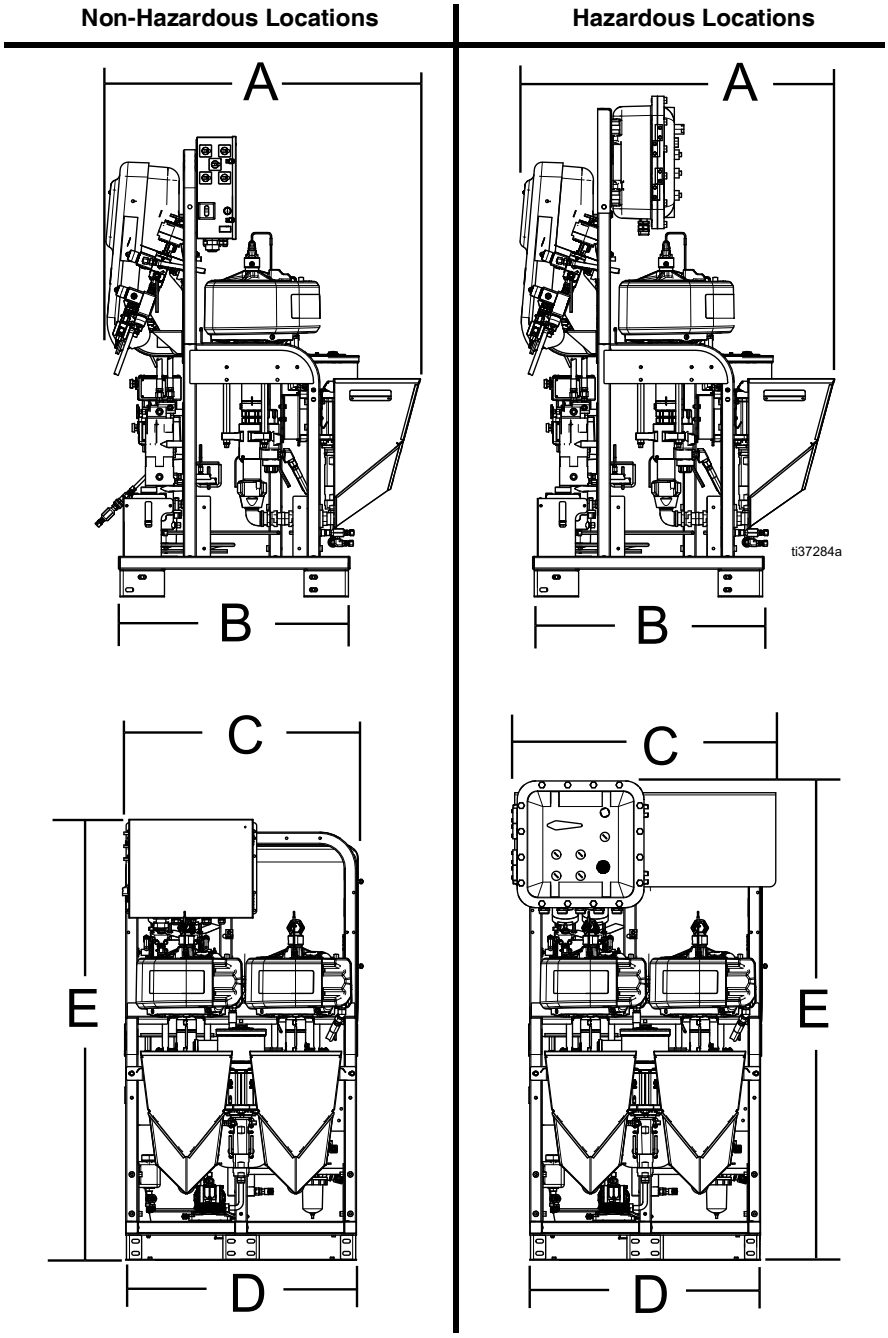
Ref.	Dimensions	
A	39.5 in.	100.3 cm
B	36.0 in.	91.4 cm
C	72.5 in.	184.1 cm
D	38.0 in.	96.5 cm

XM System Dimensions without Hoppers (Hazardous Locations)



Ref.	Dimensions	
A	39.5 in.	100.3 cm
B	36.0 in.	91.4 cm
C	79.0 in.	200.6 cm
D	38.0 in.	96.5 cm

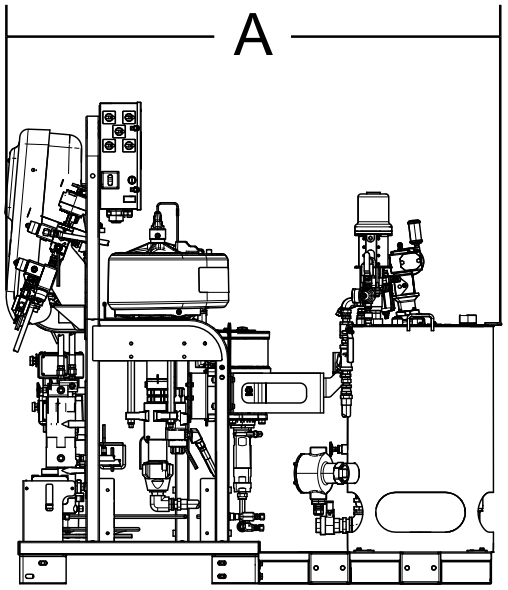
10-Gallon Rear Mount Steel Tank

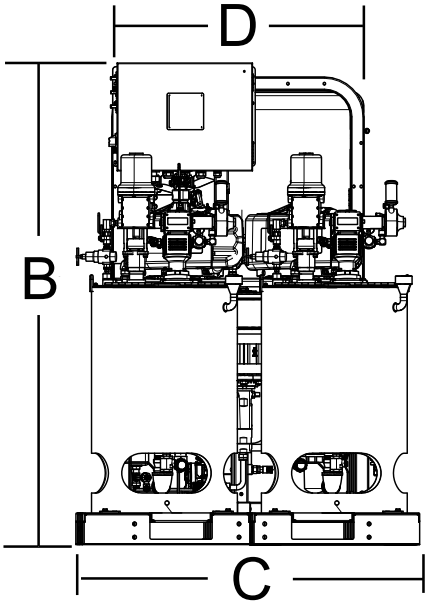


Ref.	Dimensions	
	Non-Hazardous Locations	Hazardous Locations
A	47.5 in. (120.6 cm)	47.5 in. (120.6 cm)
B	36.0 in. (91.4 cm)	36.0 in. (91.4 cm)
C	38.5 in. (97.7 cm)	43.5 in. (110.4 cm)
D	38.0 in. (96.5 cm)	38.0 in. (96.5 cm)
E	72.5 in. (184.1 cm)	79.0 in. (200.6 cm)

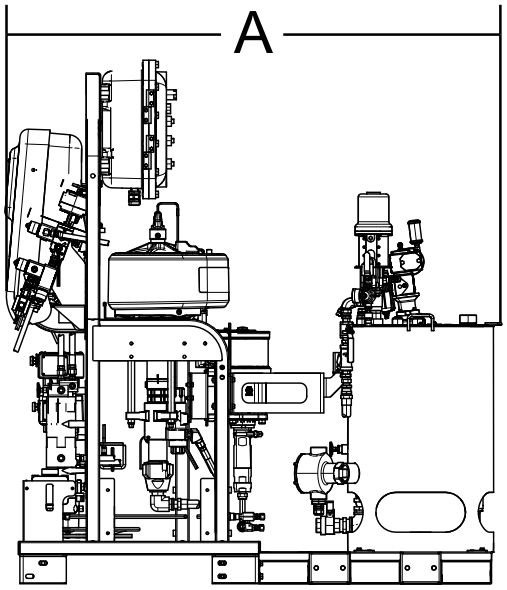
25-Gallon Rear Mount Steel Tank

Non-Hazardous Locations





Hazardous Locations



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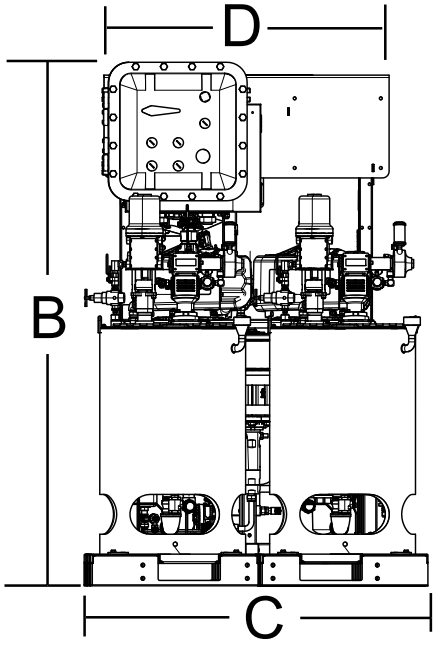
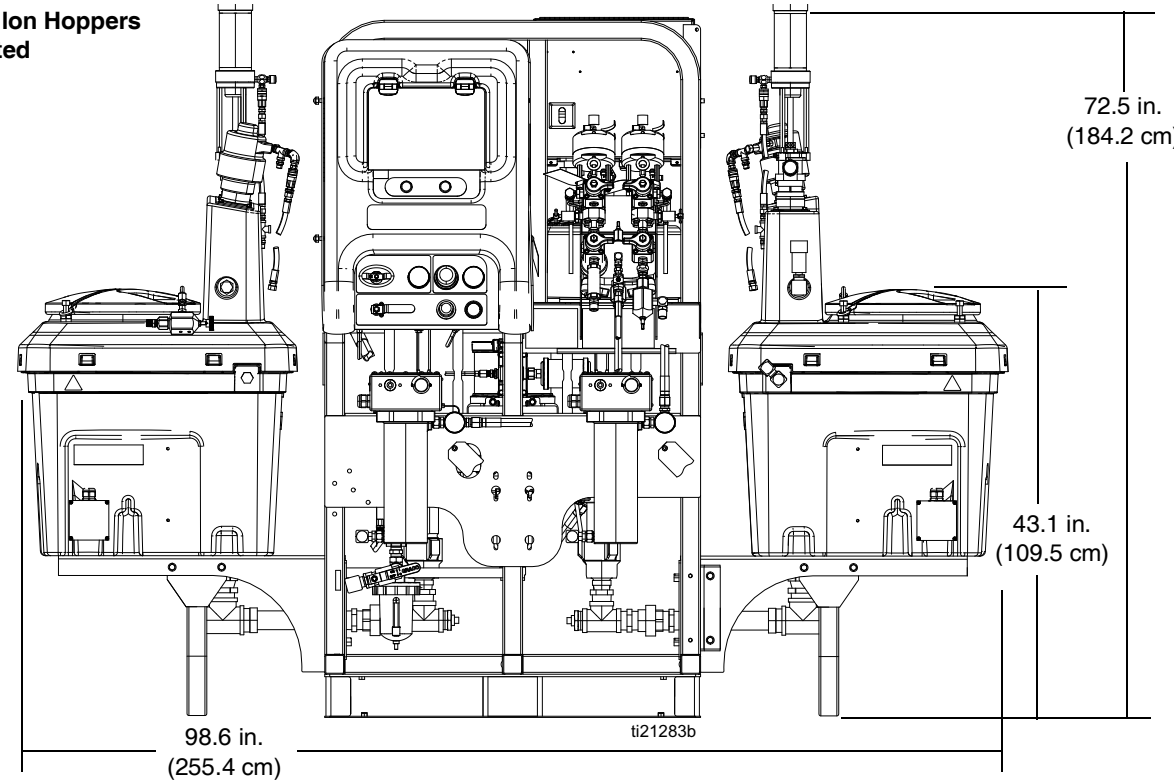


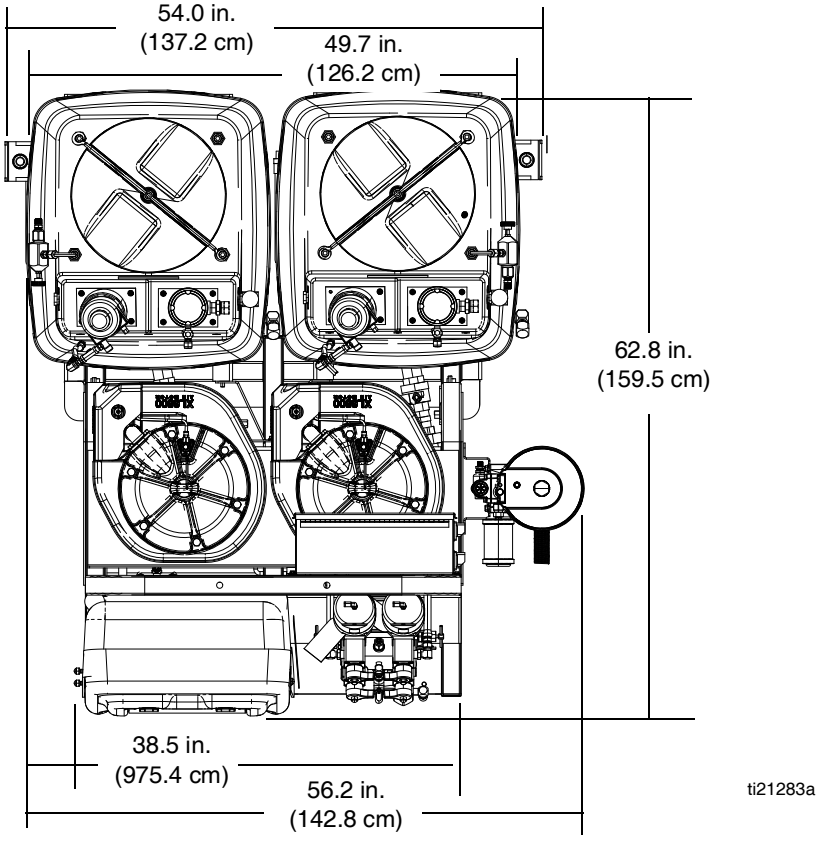
Ref.	Dimensions	
	Non-Hazardous Locations	Hazardous Locations
A	72.5 in. (184.1 cm)	72.5 in. (184.1 cm)
B	72.5 in. (184.1 cm)	79.0 in. (200.6 cm)
C	50.75 in. (128.9 cm)	50.75 in. (128.9 cm)
D	38.5 in. (97.7 cm)	43.5 in. (110.5 cm)

System Dimensions with Hoppers

Two 20-Gallon Hoppers
Side Mounted

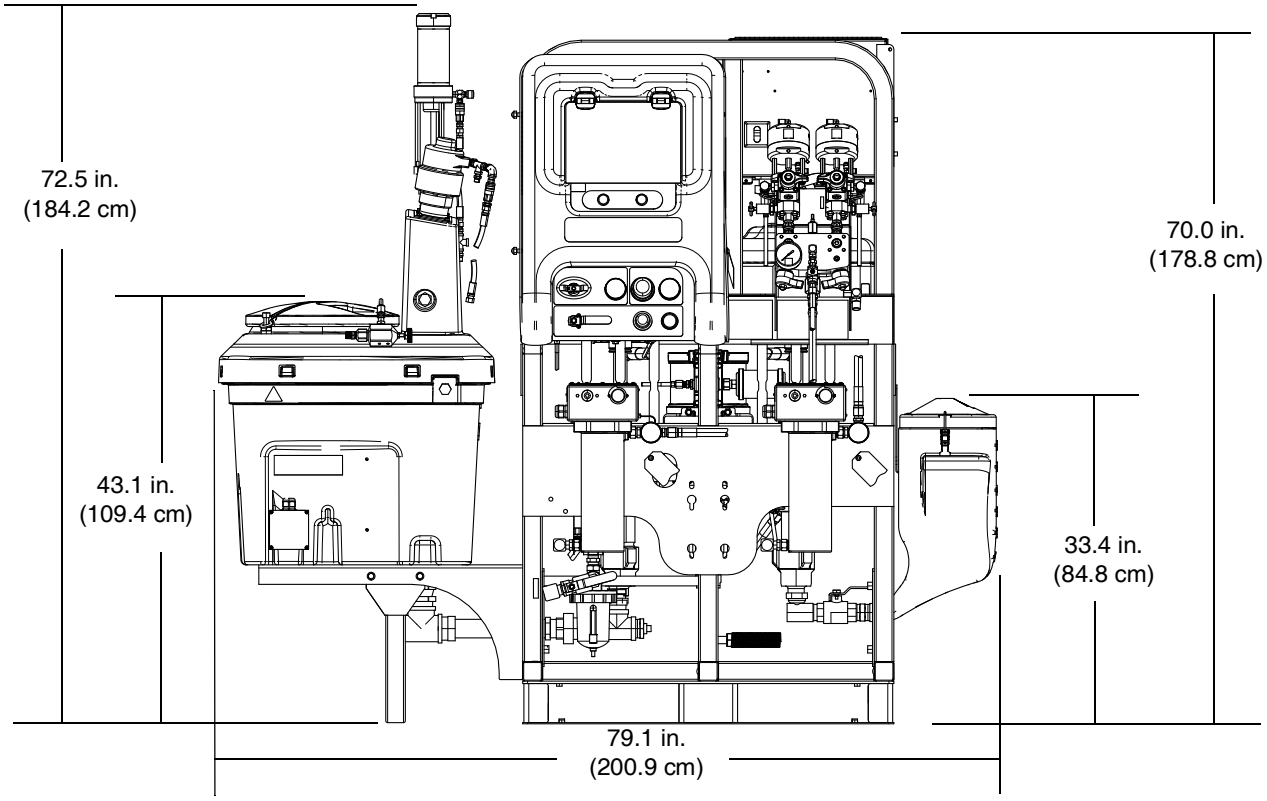


Two 20-Gallon Hoppers
Rear Mounted
(Top View)

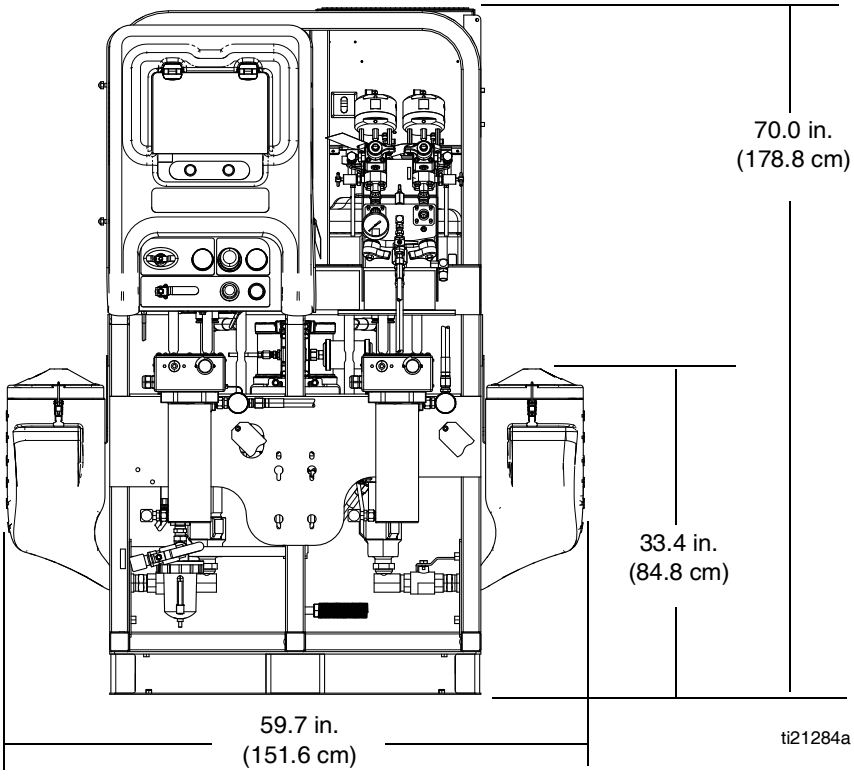


System Dimensions with Hoppers

One 20-Gallon Hopper and One 7-Gallon Hopper



Two 7-Gallon Hoppers



Technical Specifications

XM Plural-Component Sprayers		
	US	**Metric**
Mixed ratio range	1:1–10:1 (in 0.1 increments)	
Ratio tolerance range (before alarm)	+/- 5%	
Fluid Viscosity Range†	200-20,000 cps (heavier viscosities can be mixed using heat, circulation, and/or pressure feeding)	
Fluid filtration, standard on pump outlets*	60 mesh	238 micron
Air Filtration	40 micron main filter, 5 micron control air filter; see pump performance charts in your Operation manual	
Weight		
Base sprayer (XM1L00 and XM5L00 models) Add component weights to base sprayer weight for your specific model weight.	742 lb	336.87 kg
Dimensions		
See **Dimensions**, page 98.		
Inlet/Outlet Sizes		
Air inlet size	1.0 in. npt(f)	
Fluid inlet size, without feed kits	1 1/4 npt(m)	
Ambient temperature range		
Operating	32–135 °F	0–57 °C
Storage	30–160 °F	-1–71 °C
Maximum fluid working pressure of mixed material		
50:1	5200 psi	35.8 MPa, 358 bar
70:1	6300 psi	43.5 MPa, 435 bar
Maximum fluid temperature	160 °F	71 °C
Air supply pressure range	50–150 psi	0.35–1.0 MPa, 3.5–10.3 bar
Maximum pump air set pressure		
50:1	100 psi	0.68 MPa, 6.8 bar
70:1	90 psi	0.62 MPa, 6.2 bar
Maximum pump inlet fluid feed pressure	250 psi	1.7 MPa, 17 bar
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)	
Flow Rates		
Minimum* *	1 quart per minute	0.95 liters per minute
Maximum	3 gallons per minute	11.4 liters per minute
Notes		
† *Heavier viscosities can be mixed using heat, circulation, and pressure feeding.*		
* Filter assembly is not included on some models.		
** * Minimum flow rate is dependent on material being sprayed and mixing capability. Test your material specific to flow rate.*		
Environmental conditions rating		
Indoor/outdoor use		
Altitude	Up to 4000 m	
Maximum relative humidity	To 99% up to 130°F	To 99% up to 54°C

XM Plural-Component Sprayers		
	US	**Metric**
Pollution degree	11	
Installation category	2	
Noise (dBa)		
Operating Pressure 70 psi (0.48 MPa, 4.8 bar)		
Sound pressure	84.8 dB(A)	
Sound power measured per ISO 3744	95.1 dB(A)	
Operating Pressure 100 psi (0.7 MPa, 7 bar)		
Sound pressure	92.2 dB(A)	
Sound power measured per ISO 3744	102.0 dB(A)	
Notes		
All trademarks or registered trademarks are the property of their respective owners.		
Storage		
Maximum storage time	5 years	
Storage maintenance	To maintain original performance, replace soft seals after 5 years of inactivity.	
Ambient storage temperature range	30 to 160°F	(1) to 71°C
Lifetime	Lifetime varies with use, materials sprayed, storage methods, and maintenance. Life minimum is 25 years.	
Lifetime service maintenance	Replace leather packings every five years or less based on use.	
End of life disposal	If the sprayer is in a condition that it can no longer operate, the sprayer should be taken out of service and dismantled. Individual parts should be sorted by material and disposed of properly. Electronic components are RoHS complaint and should be disposed of properly.	
Graco Four Character Date Code		
Example: A18B	Month (first character) A=January, Year (second and third character) 18=2018, Series (fourth character) B=serial control number.	
Materials		
Wetted Parts	Aluminum, acetal, ductile iron, leather, nylon, plated carbon steel, PTFE, stainless steel, tungsten carbide, UHMWPE	

California Proposition 65

CALIFORNIA RESIDENTS

⚠ **WARNING:** Cancer and reproductive harm – www.P65warnings.ca.gov.

Graco Standard Warranty

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

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

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

THIS WARRANTY IS EXCLUSIVE, AND IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

Graco's sole obligation and buyer's sole remedy for any breach of warranty shall be as set forth above. The buyer agrees that no other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available. Any action for breach of warranty must be brought within two (2) years of the date of sale.

GRACO MAKES NO WARRANTY, AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IN CONNECTION WITH ACCESSORIES, EQUIPMENT, MATERIALS OR COMPONENTS SOLD BUT NOT MANUFACTURED BY GRACO. These items sold, but not manufactured by Graco (such as electric motors, switches, hose, etc.), are subject to the warranty, if any, of their manufacturer. Graco will provide purchaser with reasonable assistance in making any claim for breach of these warranties.

In no event will Graco be liable for indirect, incidental, special or consequential damages resulting from Graco supplying equipment hereunder, or the furnishing, performance, or use of any products or other goods sold hereto, whether due to a breach of contract, breach of warranty, the negligence of Graco, or otherwise.

FOR GRACO CANADA CUSTOMERS

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Graco Information

For the latest information about Graco products, visit www.graco.com.

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

TO PLACE AN ORDER, contact your Graco distributor or call to identify the nearest distributor.
Phone: 612-623-6921 **or Toll Free:** 1-800-328-0211 **Fax:** 612-378-3505

All written and visual data contained in this document reflects the latest product information available at the time of publication.
Graco reserves the right to make changes at any time without notice.

Original instructions. This manual contains English. MM 313289

Graco Headquarters: Minneapolis
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