Instructions

XM™ Plural-Component OEM Sprayer

313292L

EN

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

For professional use only.

Important Safety Instructions

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

See page 9 for model information.

See page 26 for maximum working pressure.

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

Contents

Related Manuals

Manuals are available at www.graco.com.
Component Manuals in U.S. English:

Manual	Description
312359	XM Plural-Component Sprayers, Operation
313289	XM Plural-Component Sprayers, Repair-Parts
311762	Xtreme® Displacement Pumps, Instructions-Parts
3A5423	XL6500 and XL3400 Air Motors, Instructions-Parts
3A6110	Double Wall Stainless Steel Hopper Kit, Instructions-Parts
3A2954	Viscon® HF Heater, Instructions-Parts
3A7469	XTR5+™ and XTR7+™ Airless Spray Guns, Instructions-Parts
3A4032	Xtreme Duty™ Agitator, Instructions-Parts
312794	Merkur® Pump Assembly, Instructions-Parts
406699	7-Gallon Plastic Hopper and 10-Gallon Stainless Steel Hopper Kit, Instructions-Parts
406739	Desiccant Kit, Instructions-Parts
313258	Electric Heated Hose Power Supply Kit, Instructions-Parts
313259	Hopper or Hose Heat Circulation Kit, Instructions-Parts
312770	Lower Strainer and Valve Kit, Instructions-Parts
312749	XM Mix Manifold Kit, Instructions-Parts
313293	Alternator Conversion Kits, Instructions-Parts
313342	Dosing Valve Repair Kit, Instructions-Parts
313343	High Flow Severe Duty Shutoff Check Valve Repair Kit, Instructions-Parts
307044	Feed Pump, Instructions-Parts
3A7523	Junction Box for XPs and XM Proportioners, Instructions-Parts
3A7524	Xtreme-Wrap™ Electric Heated Hose, Instructions-Parts

Warnings

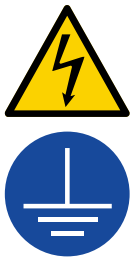
The following warnings are for the setup, use, grounding, maintenance, and repair of this equipment. The exclamation point symbol alerts you to a general warning and the hazard symbols refer to procedure-specific risks. When these symbols appear in the body of this manual or on warning labels, refer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

⚠ WARNING

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.



ELECTRIC SHOCK HAZARD

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

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

⚠ WARNING

SKIN INJECTION HAZARD

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

- Do not 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.

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.

⚠ WARNING

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.

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.

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 OEM sprayers are not approved for use in hazardous locations.

Use the following matrix to define the construction of the sprayer, based on the six characters of the Part Number. For example, Part **XMEA00** represents an XM Plural-Component OEM sprayer (**XM**); 5200 psi pump set with pump filters (**E**); wall power supply that is not approved for hazardous areas (**A**).

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

First and Second Digits	Third Digit				Fourth Digit		Fifth and Sixth Digits
	System Choice (See below for lower models)				Control Power		
		Pump Set	Pump Filters	Remote Mix Manifold		Control Box	Always 00
XM (OEM plural component sprayer without a frame)	**A**	no pumps			**A**	Wall Power Supply	
	B	no pumps		✓	**D**	Alternator	
	E	5200 psi	✓				
	F	5200 psi					
	G	6300 psi	✓				
	H	6300 psi					

Lower Models and Corresponding Identification Codes

Code	System Pressure	Pump Filters	A Lower (see your lower manual)	B Lower (see your lower manual)
E	5200 psi (35 MPa, 350 bar)	✓	L250C4	L220C4
F	5200 psi (35 MPa, 350 bar)		L250C3	L220C3
G	6300 psi (49 MPa, 490 bar)	✓	L180C4	L145C4
H	6300 psi (49 MPa, 490 bar)		L180C3	L145C3

NOTE: See **Accessories and Kits**, page 25, for a list of available accessories and kits.

Overview

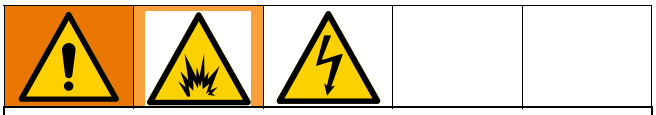
Usage

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.

The XM sprayer operates using compressed air pressure. XM plural-component sprayers are operated via the user interface, air controls, and fluid controls.

The models with the alternator control box option 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 OEM sprayers are not approved for use in hazardous locations.

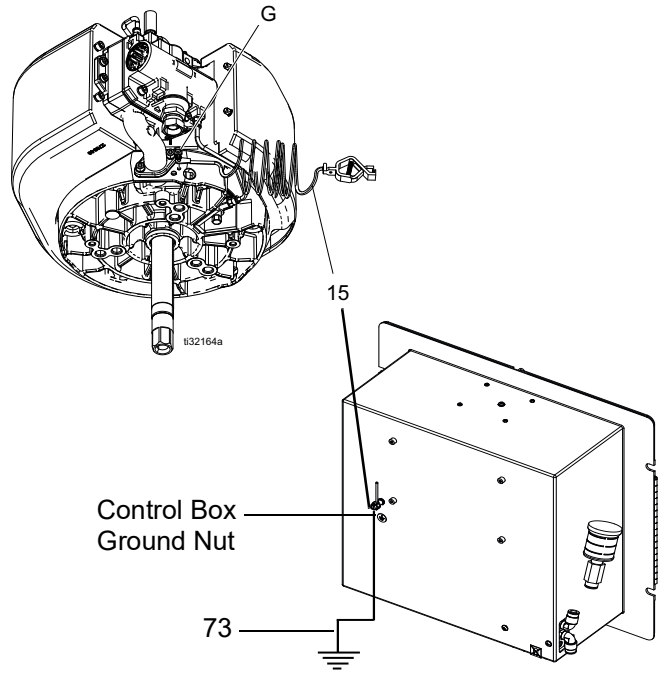
Grounding

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.

NOTE: If wall power is used, ground the electrical connection properly according to local codes.

Control box: Connect the control box ground wire (73) to a true earth ground.

Pump: Connect the ground cable (15) provided on the back of the control box ground nut to the ground screw (G). Verify that the ground screw (G) is attached and tightened securely to the air motor.



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.

Component Identification

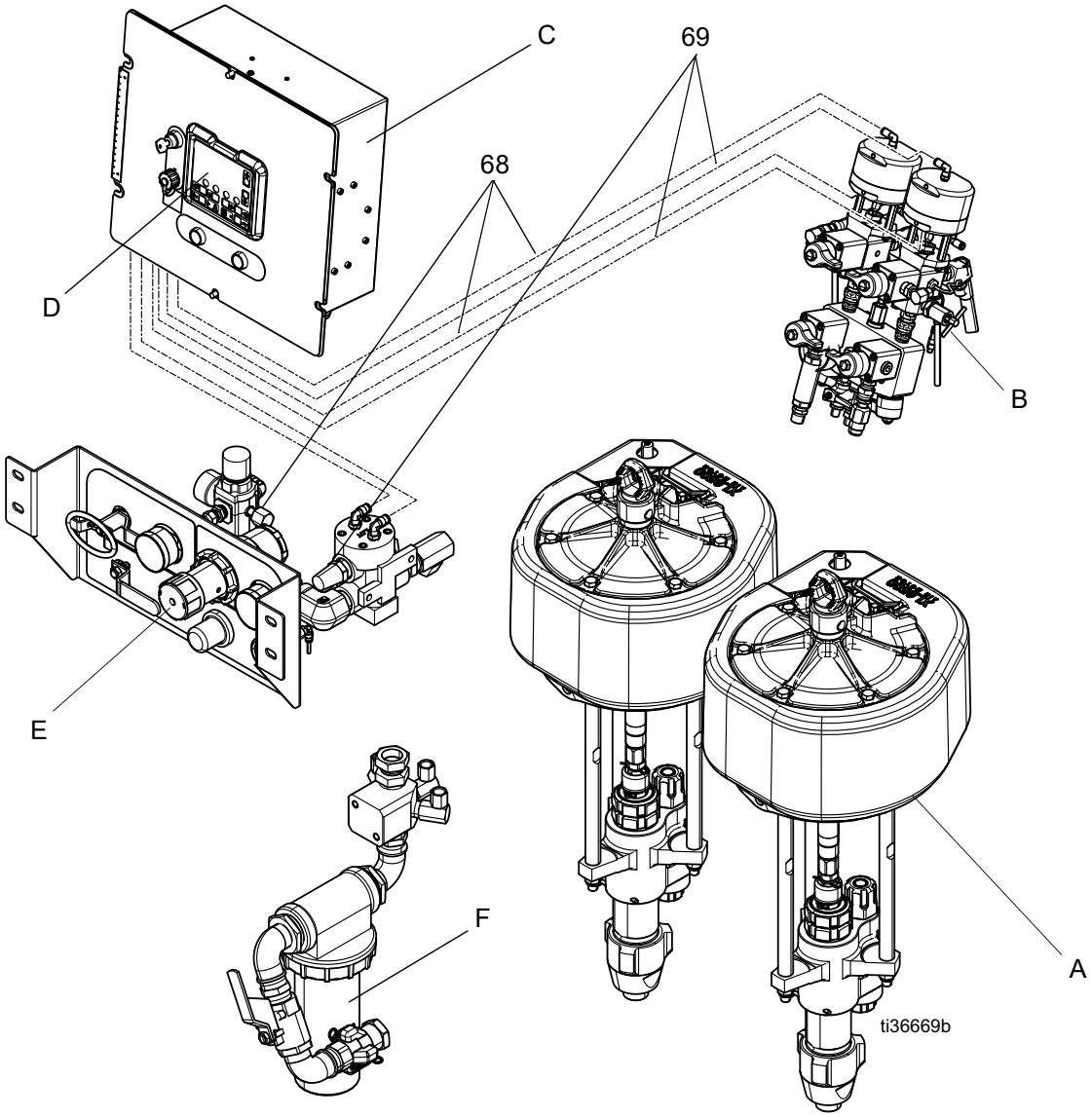


FIG. 1: Typical OEM Sprayer Components

Key:

A Pump Assembly
B Fluid Control Assembly (see **Fluid Control Assembly**, page 12)
C Control Box
D User Interface Display (see **User Interface Display**, page 15)
E Air Controls (see **Air Controls**, page 13)
F Air Inlet Manifold Assembly
68 Air Line
69 Air Line

Fluid Control Assembly

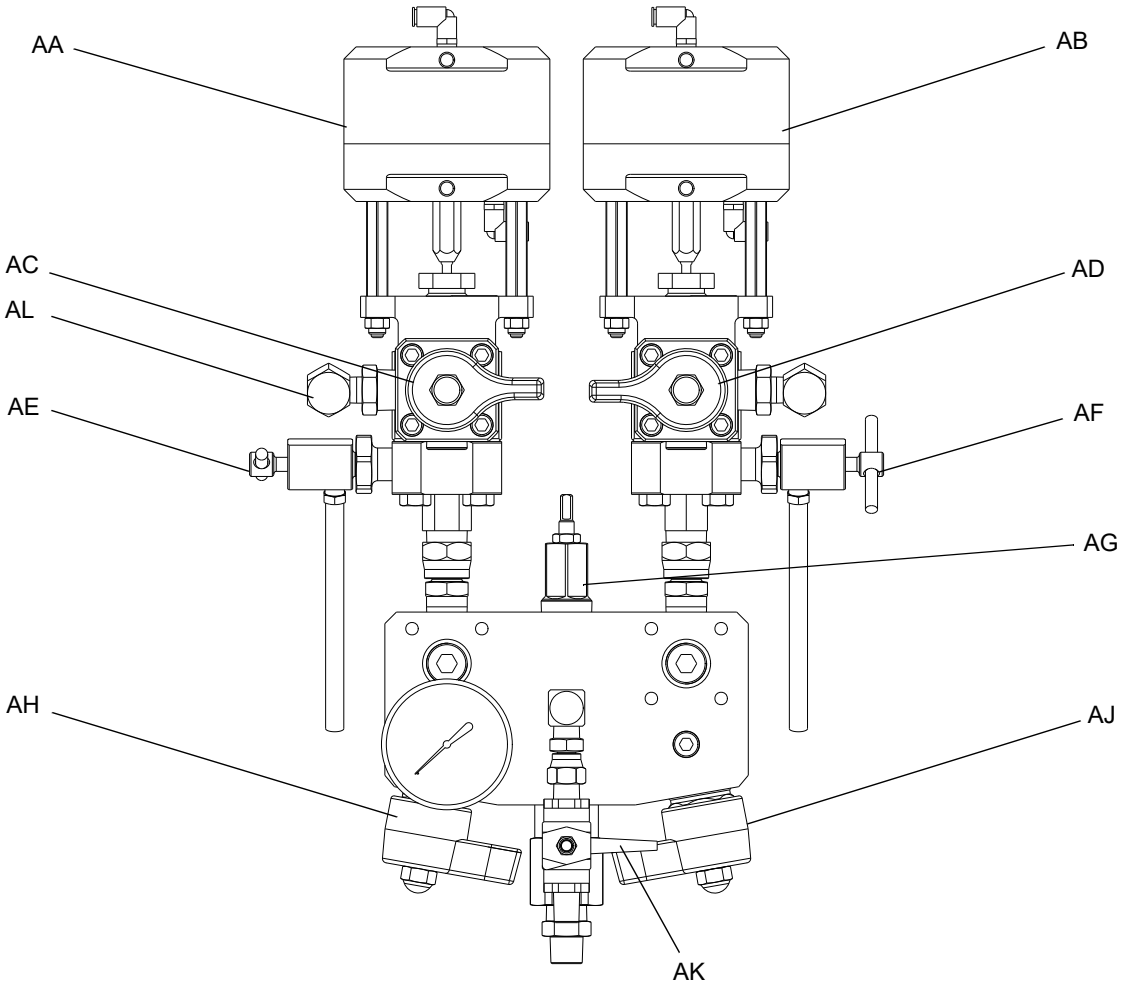


FIG. 2: Fluid Control Assembly

AA Dosing Valve A
AB Dosing Valve B
AC Recirculation Valve A
AD Recirculation Valve B
AE Sampling Valve A
AF Sampling Valve B
AG Restriction Valve
AH Mix Manifold Shutoff / Check Valve A
AJ Mix Manifold Shutoff / Check Valve B
AK Solvent Shutoff Valve
AL Pressure Sensor (hidden)

Air Controls

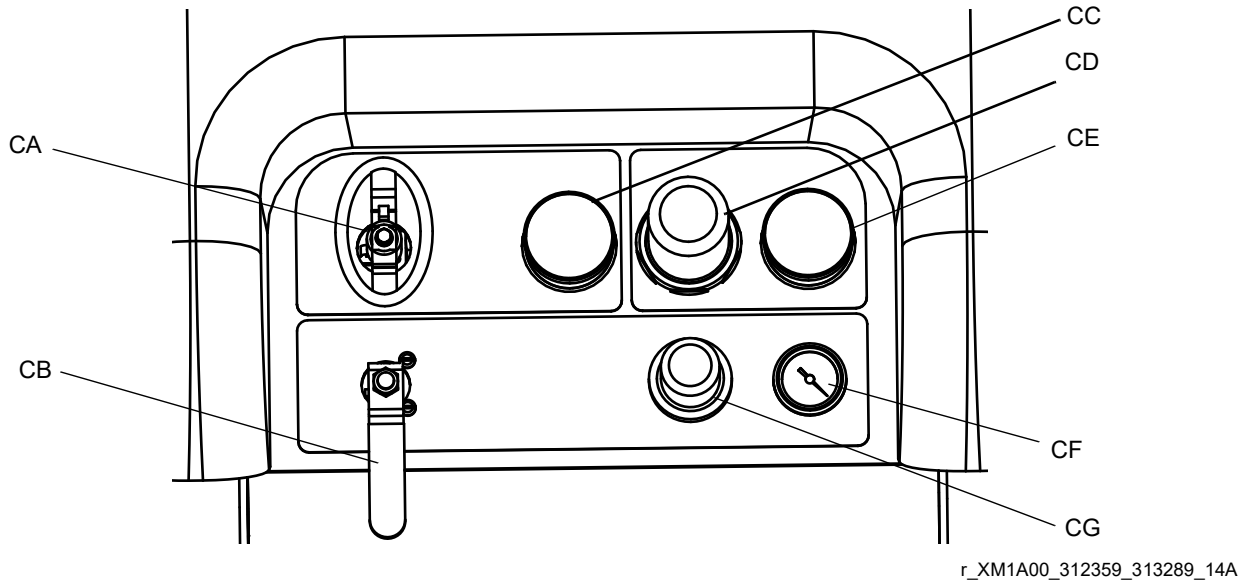


FIG. 3: Air Controls

CA Main Pump and Air On/Off Control
CB Solvent Pump Air On/Off Control
CC Inlet Air Pressure Gauge
CD Main Pump Air Regulator
CE Main Pump Air Regulator Gauge
CF Solvent Pump Air Gauge
CG Solvent Pump Air Regulator

User Interface

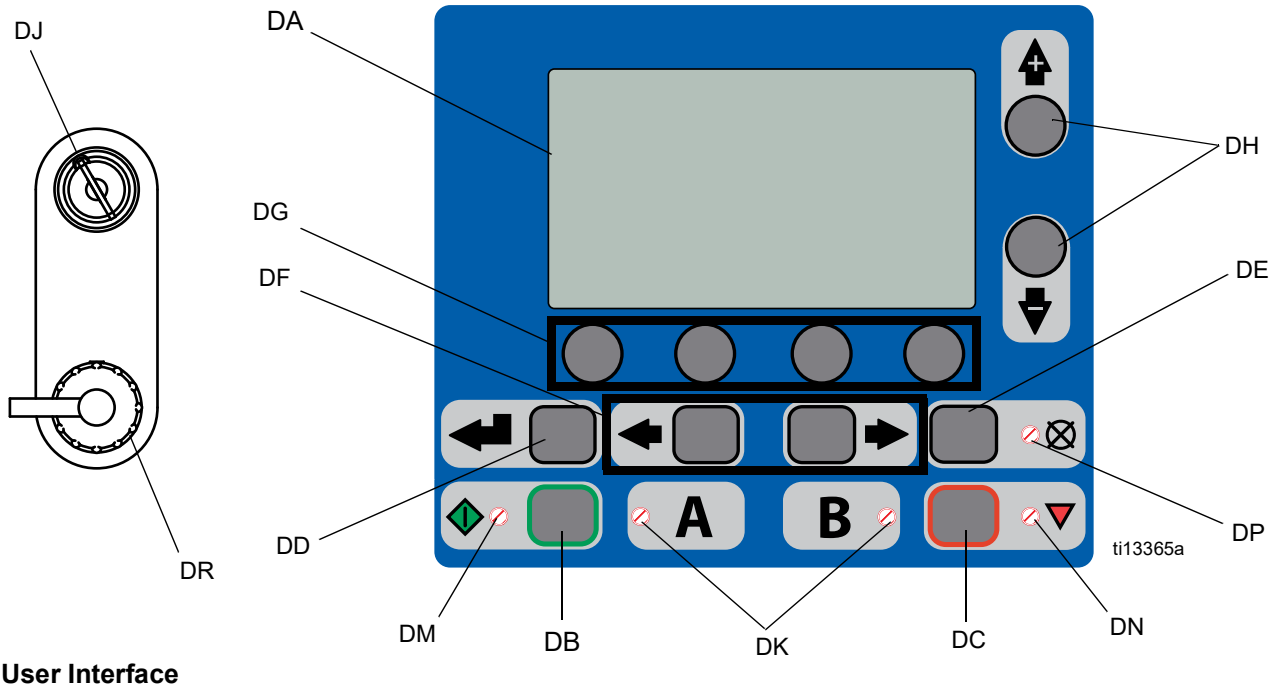


FIG. 4: User Interface

Buttons

Ref.	Button	Function
DA	Display Screen	Use to view GCA display. Ratio, Mode Selection, Error Conditions, Totalizers, System Information.
DB	Start	Initiates Active Run Mode function currently selected in Run Screen.
DC	Stop	Terminates Active Run Mode function currently selected.
DD	Enter	Press to open drop-down fields, selection options, and save values.
DE	Alarm Reset	Resets alarms and advisories.
DF	Left/Right	Move between screens in run or setup modes.
DG	Function	Activates mode or action represented by the icon above each of the four buttons in the LCD.
DH	Up/Down	Move between selection boxes, drop-down fields, and selectable values within Setup screens.
DJ	Setup Key Lock	Change ratio or enter Setup mode.
DR	USB Port	Connection for data download. Use only in non-hazardous areas.

LEDs

There are four types of LEDs on the display.

Ref.	LED	Function
DK	Blue	Dosing valve active - on - dosing valve is active - off - dosing valve is not active
DM	Green	Spray mode active - selected mode is on (active) - selected mode is off (inactive)
DN	Red	Alarm - on - alarm is present - off - no alarm
DP	Yellow	Warning - on - is active - off - no warning indicated (atio and setup fields are not changeable) - flashing - key is present and turned (ratio and setup fields are changeable)

User Interface Display

NOTE: For details regarding the user interface display, see your XM Plural-Component Sprayer operation manual.

Main Display Screen Components

The following figure calls out the navigational, status, and general informational components of each display screen.

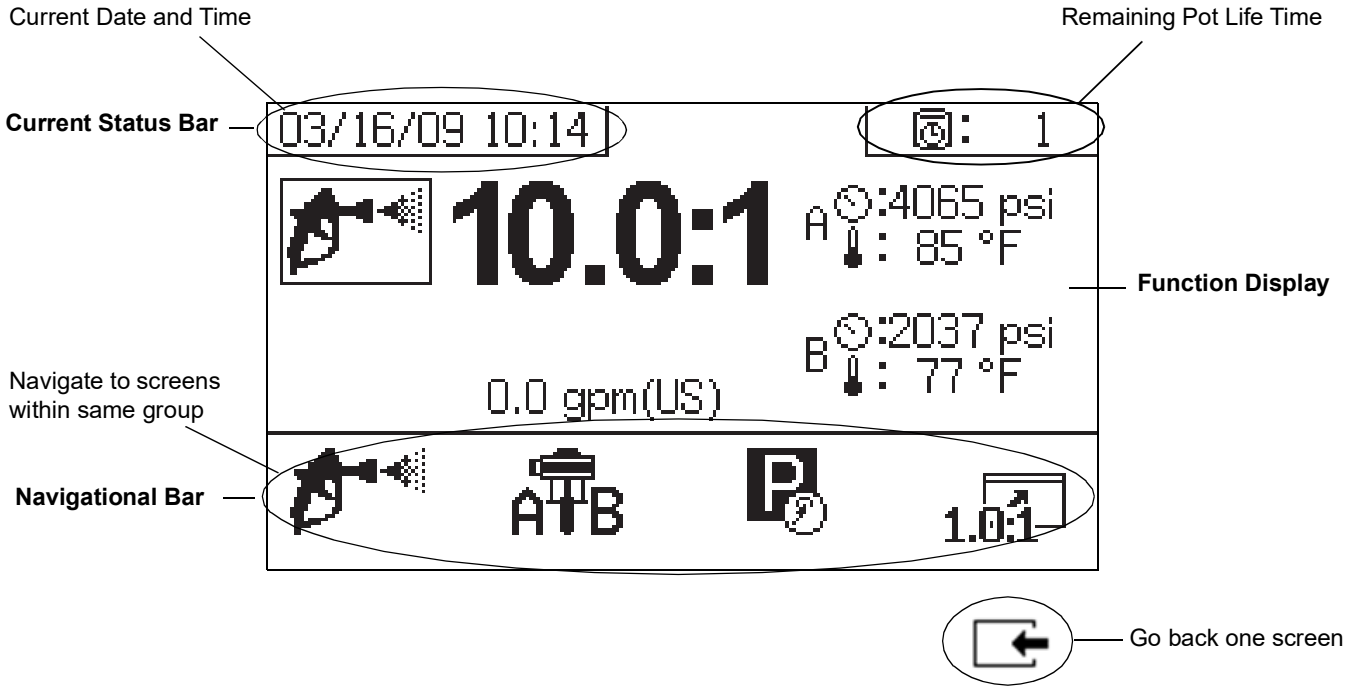
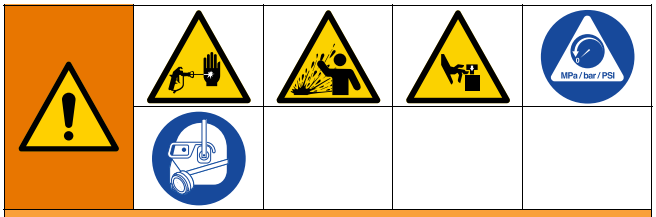


FIG. 5: Main Display Screen Components

NOTICE
To prevent damage to soft key buttons, do not press the buttons with sharp objects such as pens, plastic cards, or fingernails.

Pressure Relief Procedure

Follow the Pressure Relief Procedure whenever you see this symbol.



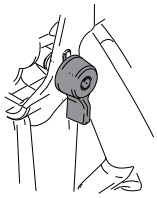
This equipment stays pressurized until pressure is manually relieved. To help prevent serious injury from pressurized fluid, such as skin injection, splashing fluid and moving parts, follow this Pressure Relief Procedure when you stop spraying and before cleaning, checking, or servicing the equipment.

Relieve A and B Fluid Pressure

1. Engage trigger lock.

TI1949a

2. Press  .
3. If fluid heaters are used, turn them off.
4. If the feed pumps are being used, shut them off by closing the feed pump air regulator and close the feed pump air valve.
5. Disengage trigger lock.



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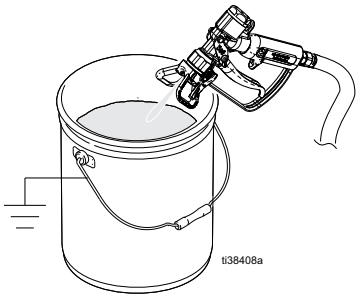
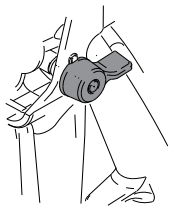
6. Hold a metal part of the gun firmly to a grounded metal pail with a splash guard in place. Trigger gun to relieve pressure in material hoses.



7. Engage trigger lock.



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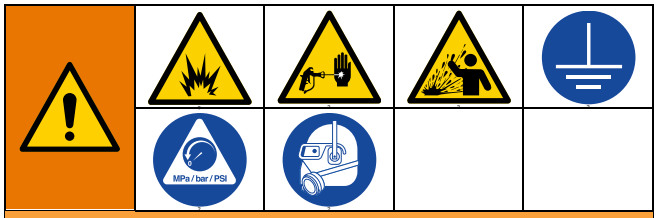
8. Close mix manifold valves (AH, AJ).

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 **Flush Mixed Manifold, Hose, and Spray Gun**, page 17, when you stop spraying or dispensing, and before cleaning, checking, servicing, or transporting equipment.

Flush

Flush Mixed Manifold, Hose, and Spray Gun

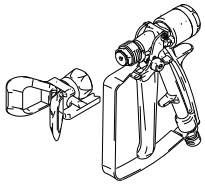


To avoid fire and explosion, always ground equipment and waste container. To avoid static sparking and injury from splashing, always flush at the lowest possible pressure.

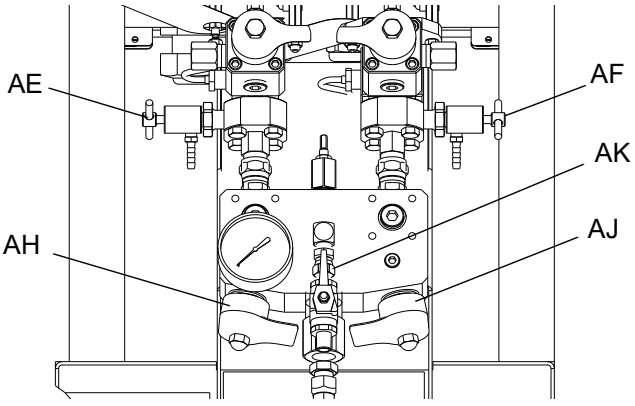
Hot solvent may ignite. To avoid fire and explosion:

- 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 16. Engage trigger lock. Remove spray tip.

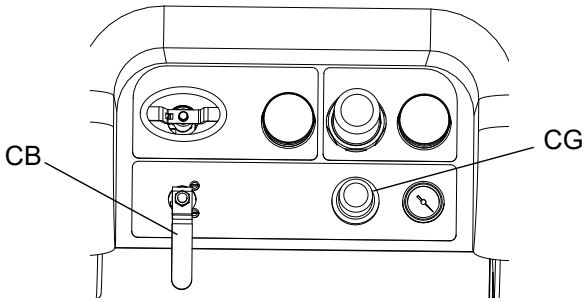


2. Make sure sampling valves (AE, AF) and mix manifold valves (AH, AJ) are closed.

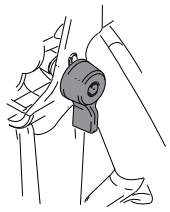


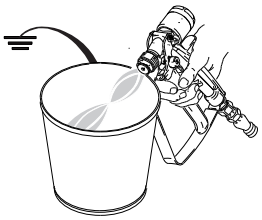
3. Open solvent shutoff valve (AK) at mix manifold.

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.



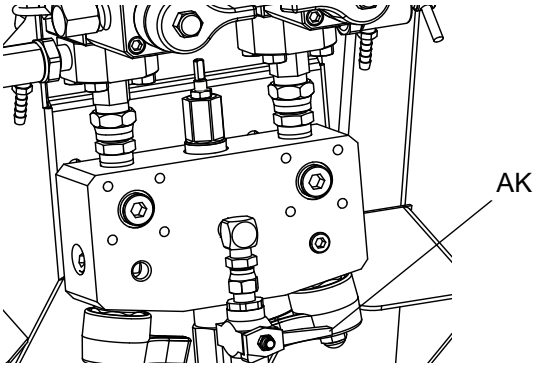
5. Disengage trigger lock. Hold a metal part of the gun firmly to a grounded metal pail with a splash guard in place.Use a pail lid with a hole in it to dispense through. Be careful to keep fingers away from the front of the gun. Trigger gun until clean solvent appears.





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.

Installation and Setup

See **Dimensions**, page 26, to aid in component installation.

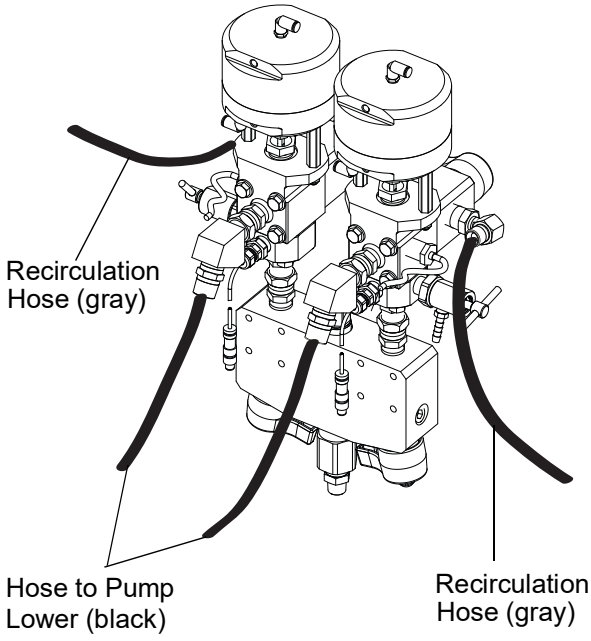
Connect Air Lines

Refer to component identification in FIG. 1, page 11. Refer to the pneumatic schematic drawings in your XM Plural-Component Sprayer repair-parts manual for guidance.

- Connect air lines (68, 69) between the fluid control assembly (B) and the control box (C).
- Connect air lines (68, 69) between the air controls assembly (E) and the control box.

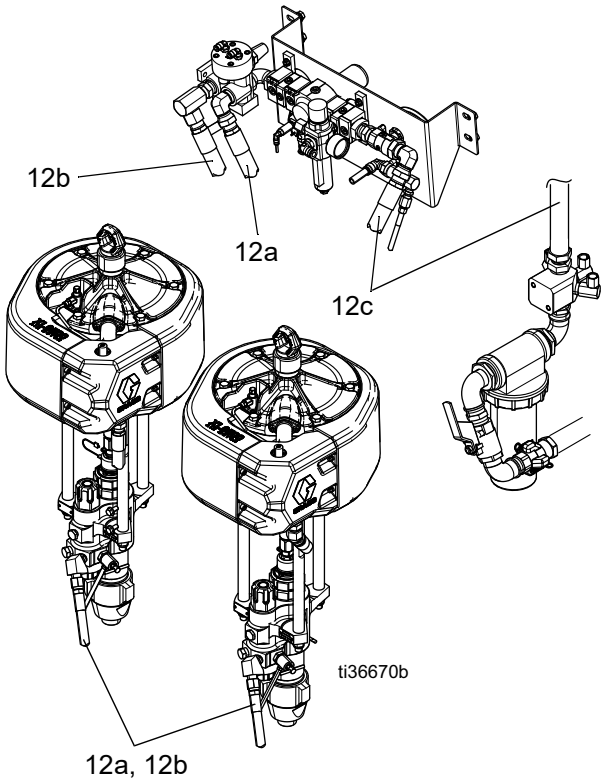
Connect Fluid Hoses

Use the following illustration as a guide to connect the fluid hoses.



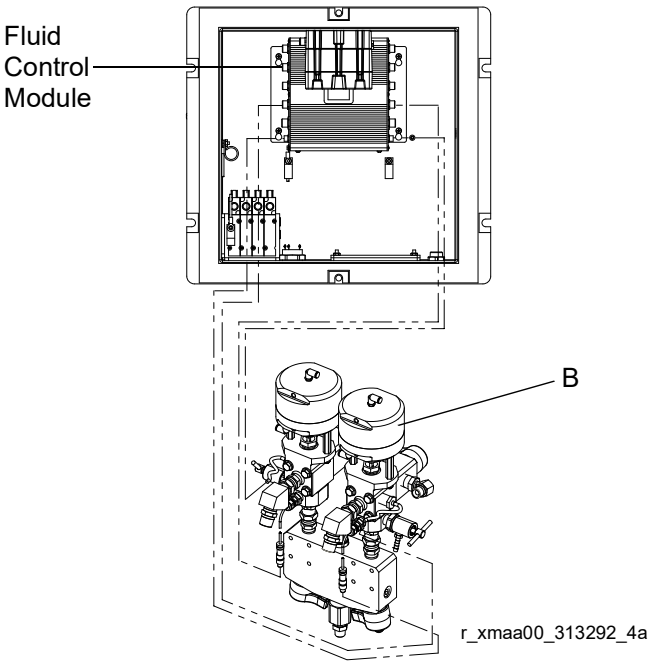
Connect Air Hoses

- Connect air hose (12) between the air inlet manifold and the air controls assembly. See (12c).
- Connect air hose (12) between air controls assembly and both air motors. See (12a or 12b).



Connect Sensor Cables

Connect the pressure and temperature sensor cables (supplied with fluid control assembly [B]) to the fluid control module.



Operation

For operation instructions, see your XM Plural-Component Sprayer Operation manual.

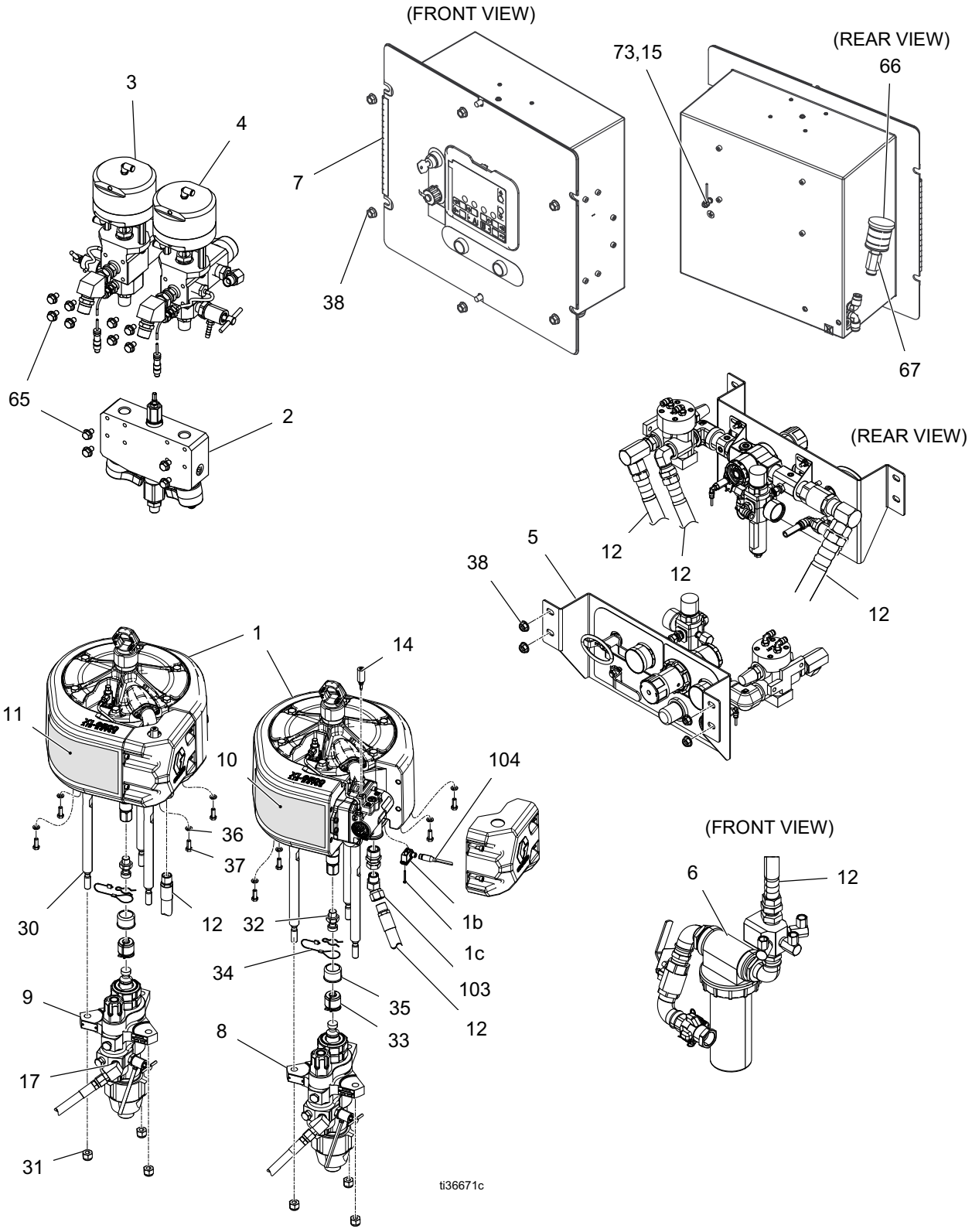
Repair

For maintenance, troubleshooting, and repair instructions, see your XM Plural-Component Sprayer Repair-Parts manual.

Schematics

See your XM Plural-Component Sprayer Repair-Parts manual for all electrical schematics.

Parts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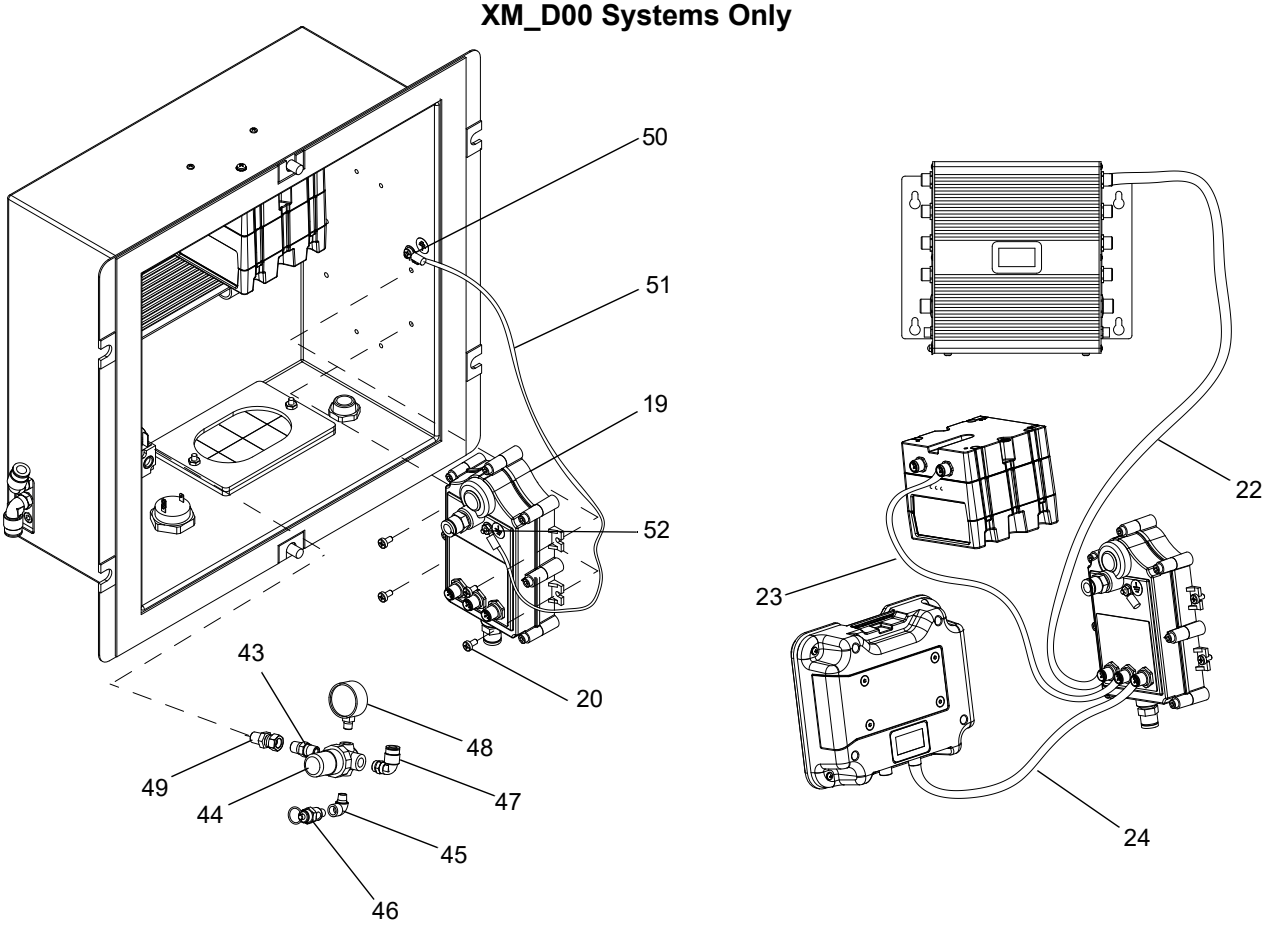
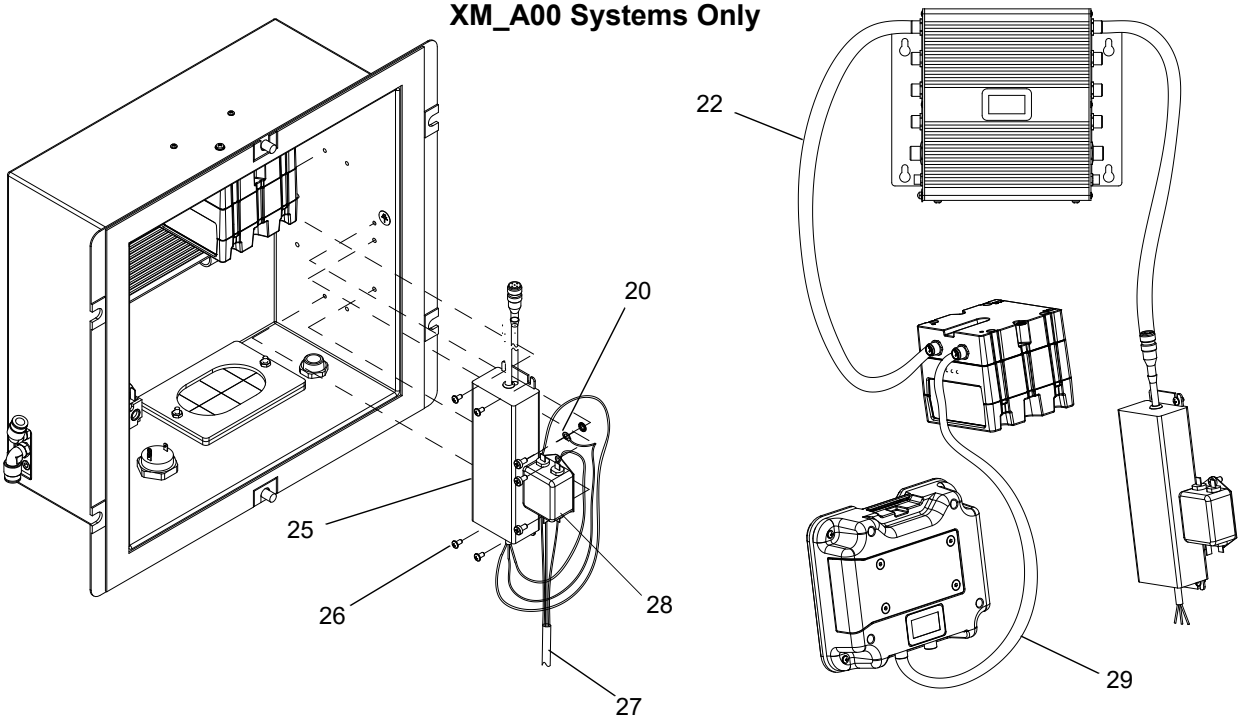
XM_D00 Systems Only



XM_A00 Systems Only



XMA_00 and XMB_00 Parts

Reference numbers not listed are not included with XMA_00 and XMB_00 systems.

Ref.	Part	Description	Qty.
2	255684	MANIFOLD, mix; see your XM Sprayer Repair manual	1
3	- - - - -	VALVE, ratio control, left; see your XM Sprayer Repair manual	1
4	- - - - -	VALVE, ratio control, right; see your XM Sprayer Repair manual	1
5	255761	MODULE, air controls, upper; see your XM Sprayer Repair manual	1
6	26C689	MANIFOLD, inlet air distribution; see your XM Sprayer Repair manual	1
7	255771	BOX; see your XM Sprayer Repair manual	1
19✓	255728	MODULE, alternator	1
20	110637	SCREW, mach, pan hd	
		XMAA00 and XMBA00	3
		XMAD00 and XMBD00	5
21✓★	C12508	TUBING, nylon, round	5
22	15V778	CABLE, I.S.CAN, f/f; 20 in.	1
23✓	15V782	CABLE, I.S. CAN, m/f; 20 in.	1
24✓	15V783	CABLE, male/female; 39 in.	1
25❊	15V747	POWER SUPPLY, assy.; 24Vdc, 2.5A, 60W	1
26❊	100035	SCREW, machine, pan hd	4
27❊	15X407	CABLE, power	1
28❊	115306	FILTER, power	1
29❊	15V779	CABLE, I.S. CAN, f/f; 34 in.	1
38	112958	NUT, hex, flanged	11
40★▲	15X393	LABEL, warning, USB	1
41★	15X126	LABEL, codes	1
42★▲	15W598	LABEL, warning	1
43✓	156971	NIPPLE, short	1
44✓	115243	REGULATOR, air, 1/4 npt	1
45✓	112307	ELBOW, street; 1/8 nptf x 1/8 nptm	1
46✓	15W017	VALVE, safety, regulator	1
47✓	115841	ELBOW, swivel, male; 1/4 npt	1
48✓	104655	GAUGE, pressure, air	1
49✓	156823	UNION, swivel	1
50✓	102063	WASHER, lock, ext	1
51✓	15B090	WIRE, grounding, door	1
52✓	100284	NUT, hex mscr	1
53✕	121295	SCREW, cap, socket hd	8
54✕★	158491	NIPPLE; 1/2 npt	4
55✕	100361	PLUG, pipe; 1/2 in. - 14 nptf	2
56✕	15R529	BLOCK, manifold	2
57✕	156684	ADAPTER, union	2
58✕	121139	O-RING	2
59✕	15J594	HOUSING, valve	2
60✕	255747	CARTRIDGE, valve	2
61✕	15R380	HANDLE, green	1
62✕	15J916	HANDLE, blue	1
63✕	117623	NUT, cap; 3/8-16 unc	2
64✕	262522	CARRIAGE	1
65	111801	SCREW, cap, hex hd	12
66	108636	MUFFLER	1
67	121688	CONNECTOR, 3/8 npt x 3/8 tube	1
68	054175	HOSE, nylon, 1/4 OD, black; 10 ft; see **Component Identification**, page 11	
69	054757	HOSE, nylon, 1/4 OD natural; 10 ft; see **Component Identification**, page 11	
73	238909	WIRE, grounding assy	1
74★	17L724	FLASH DRIVE, USB, 2.0	1
76✕	162505	UNION, swivel; 3/8 male x 1/2 female npt	1
77✕	222200	VALVE, restrictor	1
78✕	155699	ELBOW, street	1
79✕	159239	NIPPLE, pipe; 1/2 x 3/8 npt	1
80✕★	156849	PIPE, nipple	1
81✕★	164672	ADAPTER	1
82★	126786	WRENCH, restrictor	1
92✕	16N367	COUPLING, 1/2 x 3.5 in.	1

✓ *Included with XMAD00 and XMBD00 systems only.*

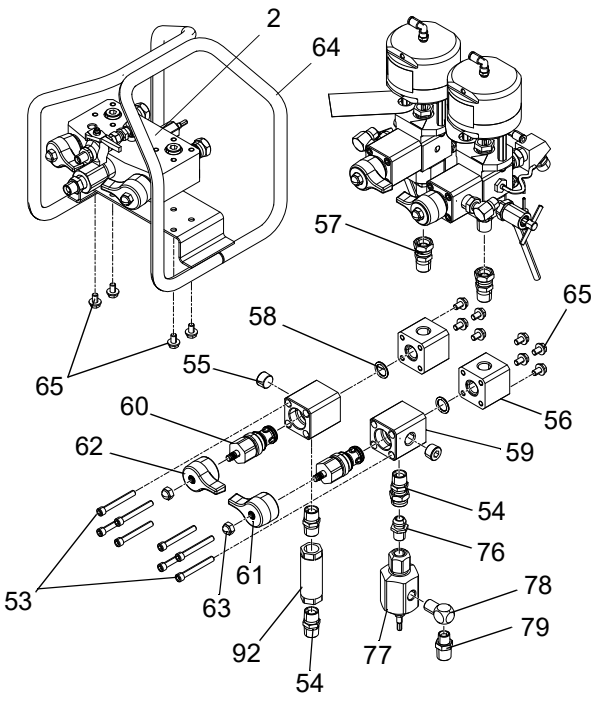
❊ *Included with XMAA00 and XMBA00 systems only.*

✕ *Included with XMBA00 and XMBD00 systems only.*

★ *Not shown.*

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

XMBA00 and XMBD00 Systems Only



XME_00 and XMF_00 Parts

Reference numbers not listed are not included with XME_00 and XMF_00 systems.

Ref.	Part	Description	Qty.
1	XL65D2	MOTOR, 6500, linear sensor, haz; see air motor manual	2
1a	26C331	LINEAR SENSOR, assembly	2
1b	24A032	SWITCH, reed assembly	2
1c	15V719	FASTENER, screw, slot hex, #8-32 tap	2
2	255684	MANIFOLD, mix; see your sprayer manual	1
3	- - - - -	VALVE, ratio control, left; see your sprayer manual	1
4	- - - - -	VALVE, ratio control, right; see your sprayer manual	1
5	255761	MODULE, air controls, upper; see your sprayer manual	1
6	26C689	MANIFOLD, inlet air distribution; see your sprayer manual	1
7	255771	BOX, control; see your sprayer manual	1
8	L250C4	LOWER, Xtreme, 250; see your pump manual	1
9	L220C4	LOWER, Xtreme, 220; see your pump manual	1
10	17P248	LABEL, Xtreme, X50	1
11	17P249	LABEL, Xtreme, X60	1
12	15B554	HOSE, coupled; 48 in.	3
15	119402	CABLE, coiled	2
16★	15T258	WRENCH	1
17	15M987	ELBOW, 60 degrees	2
19✚	255728	MODULE, alternator	1
20	110637	SCREW, machine, pan hd	
		XMEA00 and XMFA00	3
		XMED00 and XMFD00	5
21✚★	C12508	TUBING, nylon, round	5
22	15V778	CABLE, I.S.CAN, female/female; 20 in.	1
23✚	15V782	CABLE, I.S. CAN, male/female; 20 in.	1
24✚	15V783	CABLE, male/female; 39 in.	1
25❁	15V747	POWER SUPPLY, assy.; 24Vdc, 2.5A, 60W	1
26❁	100035	SCREW, machine, pan hd	4
27❁	15X407	CABLE, power	1
28❁	115306	FILTER, power	1
29❁	15V779	CABLE, I.S. CAN, female/female; 34 in.	1
30	257150	ROD, tie	6
31	101712	NUT, lock; 5/8 in. - 11 unc	6
32	15H392	ROD, adapter	2
33	244819	COUPLING, assy	2
34	244820	CLIP, hairpin with lanyard	2
35	197340	COVER, coupler	2
36	100133	WASHER, LOCK; 3/8	8
37	100101	SCREW, cap, hex hd	8
38	112958	NUT, hex, flanged	11
39	160327	UNION, adapter; 90 degrees	2
40★▲	15X393	LABEL, warning, USB	1
41★	15X126	LABEL, codes	1
42★▲	15W598	LABEL, warning	1
43✚	156971	NIPPLE, short	1
44✚	115243	REGULATOR, air; 1/4 npt	1
45✚	112307	ELBOW, street; 1/8 nptf x 1/8 nptm	1
46✚	15W017	VALVE, safety, regulator	1
47✚	115841	ELBOW, swivel, male; 1/4 npt	1
48✚	104655	GAUGE, pressure, air	1
49✚	156823	UNION, swivel	1
50✚	102063	WASHER, lock, ext	1
51✚	15B090	WIRE, grounding, door	1
52✚	100284	NUT, hex mscr	1
65	111801	SCREW, cap, hex hd	12
66	108636	MUFFLER	1
67	121688	CONNECTOR; 3/8 npt x 3/8 tube	1
68	054172	TUBE, nylon, 1/4 OD, black; 10 ft; see **Component Identification**, page 11	
69	054757	TUBE, nylon, 1/4 OD natural; 10 ft; see **Component Identification**, page 11	
73	238909	WIRE, grounding assy	1
74★	17L724	FLASH DRIVE, USB, 2.0	1
82★	126786	WRENCH, restrictor	1
103	105281	FITTING, union, swivel, 45	1
104	17Y184	CABLE, GCA, M12-5P, m/f, 1.0m	2

✚ *Included with XMED00 and XMFD00 systems only.*

❁ *Included with XMEA00 and XMFA00 systems only.*

★ *Not shown.*

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

XMG_00 and XMH_00 Parts

Reference numbers not listed are not included with XMG_00 and XMH_00 systems.

Ref.	Part	Description	Qty.
1	XL65D2	MOTOR, 6500, linear sensor, haz; see your air motor manual	2
1a	26C331	LINEAR SENSOR, assembly	2
1b	24A032	SWITCH, reed assembly	2
1c	15V719	FASTERN, screw, slot hex, #8-32 tap	2
2	255684	MANIFOLD, mix; see your sprayer manual	1
3	- - - - -	VALVE, ratio control, left; see your sprayer manual	1
4	- - - - -	VALVE, ratio control, right; see your sprayer manual	1
5	255761	MODULE, air controls, upper; see your sprayer manual	1
6	26C689	MANIFOLD, inlet air distribution; see your sprayer manual	1
7	255771	BOX, control; see your sprayer manual	1
8	L180C4	LOWER, Xtreme, 180; see your pump manual	1
9	L145C4	LOWER, Xtreme, 145; see your pump manual	1
10	17U825	LABEL, Xtreme, X70	1
11	17U826	LABEL, Xtreme, X90	1
12	15B554	HOSE, coupled; 48 in.	3
15	119402	CABLE, coiled	2
16★	15T258	WRENCH	1
17	15M987	ELBOW, 60 degrees	2
19‡	255728	MODULE, alternator	1
20	110637	SCREW, mach, pan hd XMGA00 and XMHA00 XMGD00 and XMHD00	 3 5
21‡★	C12508	TUBING, nylon, round	5
22	15V778	CABLE,I.S.CAN, female/female; 20 in.	1
23‡	15V782	CABLE,I.S. CAN, male/female; 20 in.	1
24‡	15V783	CABLE, male/female; 39 in.	1
25◆	15V747	POWER SUPPLY, assy.; 24Vdc, 2.5A, 60W	1
26◆	100035	SCREW, machine, pan hd	4
27◆	15X407	CABLE, power	1
28◆	115306	FILTER, power	1
29◆	15V779	CABLE, I.S. CAN, female/female; 34 in.	1
30	257150	ROD, tie	6
31	101712	NUT, lock; 5/8 in. - 11 unc	6
32	15H392	ROD, adapter	2
33	244819	COUPLING, assy	2
34	244820	CLIP, hairpin with lanyard	2
35	197340	COVER, coupler	2
36	100133	WASHER, LOCK; 3/8	8
37	100101	SCREW, cap, hex hd	8
38	112958	NUT, hex, flanged	11
39	160327	UNION, adapter; 90 degrees	2
40★▲	15X393	LABEL, warning, USB	1
41★	15X126	LABEL, codes	1
42★▲	15W598	LABEL, warning	1
43‡	156971	NIPPLE, short	1
44‡	115243	REGULATOR, air; 1/4 npt	1
45‡	112307	ELBOW, street; 1/8 nptf x 1/8 nptm	1
46‡	15W017	VALVE, safety, regulator	1
47‡	115841	ELBOW, swivel, male; 1/4 npt	1
48‡	104655	GAUGE, pressure, air	1
49‡	156823	UNION, swivel	1
50‡	102063	WASHER, lock, ext	1
51‡	15B090	WIRE, grounding, door	1
52‡	100284	NUT, hex mscr	1
65	111801	SCREW, cap, hex hd	12
66	108636	MUFFLER	1
67	121688	CONNECTOR; 3/8 npt x 3/8 tube	1
68	054172	TUBE, nylon, 1/4 OD, black; 10 ft; see **Component Identification**, page 11	
69	054757	TUBE, nylon, 1/4 OD natural; 10 ft; see **Component Identification**, page 11	
73	238909	WIRE, grounding assy	1
74★	17L724	FLASH DRIVE, USB, 2.0	1
82★	126786	WRENCH, restrictor	1
103	105281	FITTING, union, swivel, 45	1
104	17Y184	CABLE, GCA, M12-5P, m/f, 1.0m	2

‡ *Included with XMGD00 and XMHD00 systems only.*

◆ *Included with XMGA00 and XMHA00 systems only.*

★ *Not shown.*

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

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 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 manual for more information.

5:1 Feed Pump Kit, 256255

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

7-Gallon Hopper and Bracket Kit, 256260

One 7-gallon hopper and mounting brackets. Mounts to the side or back of an XM sprayer. See your hopper installation kit 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, 256276

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 through 20-gallon hoppers, heated hose, and Viscon HP heater. See your Feed Pump and Agitator Kit manual for more information.

Desiccant Dryer Kit, 256512

For use with 20-gallon hoppers. See your desiccant dryer 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 heated hose 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 Shutoff Check Valve 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 your XM Mix Manifold Kit manual for more information.

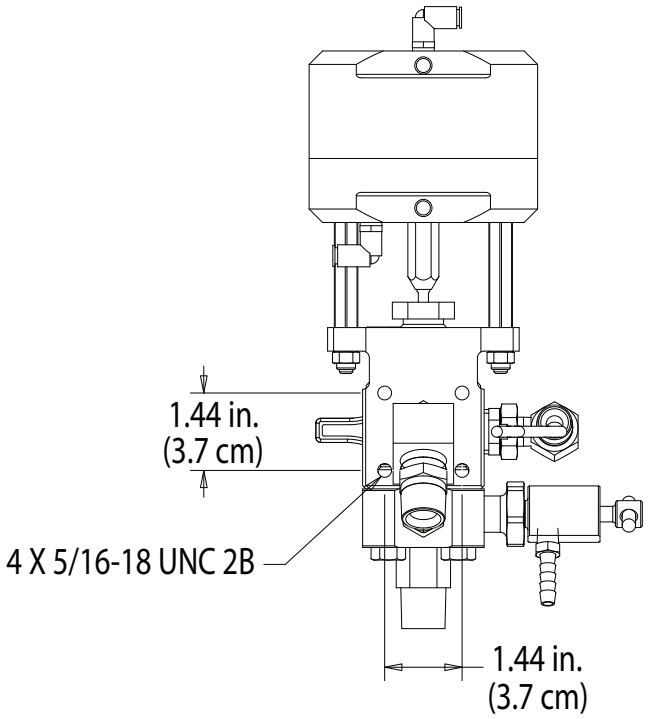
Remote Mix Manifold and Carriage Kit, 256980

For converting to a remote mix manifold kit with a protective guard. See your XM Mix Manifold Kit manual for more information.

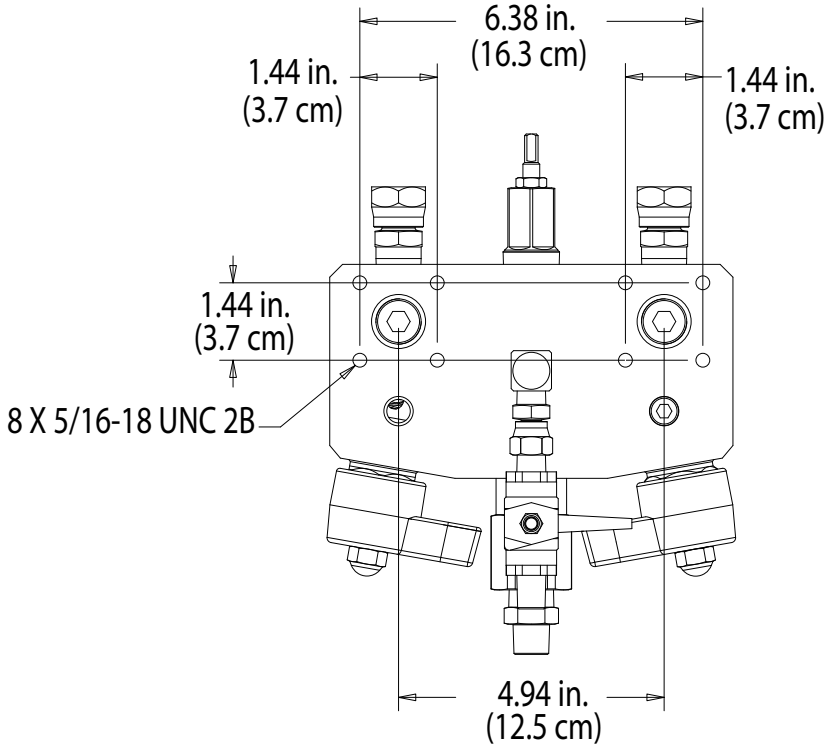
Dimensions

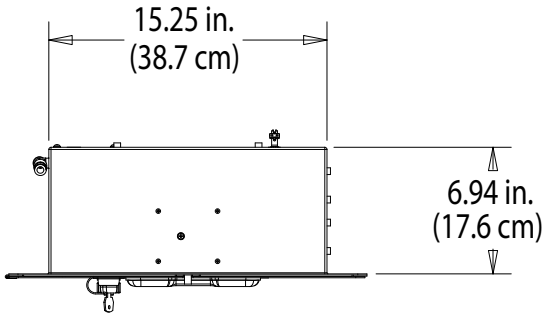
Fluid Control Assembly

Dosing Valve Assembly

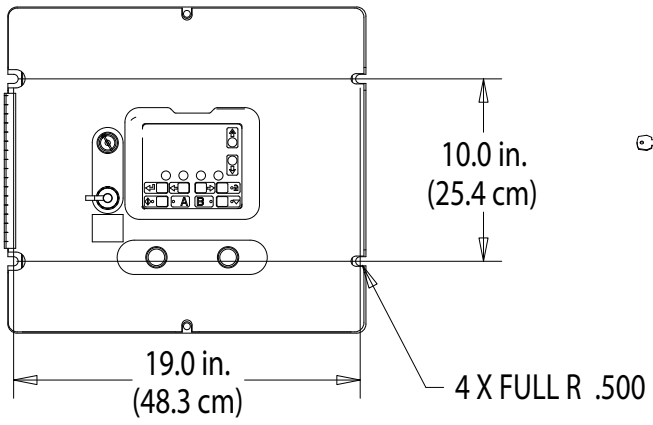


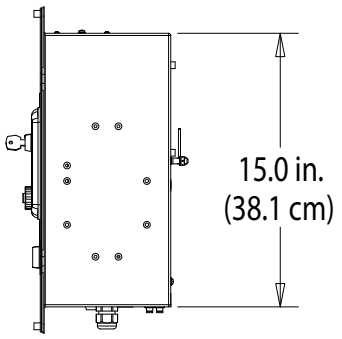
Mix Manifold Assembly

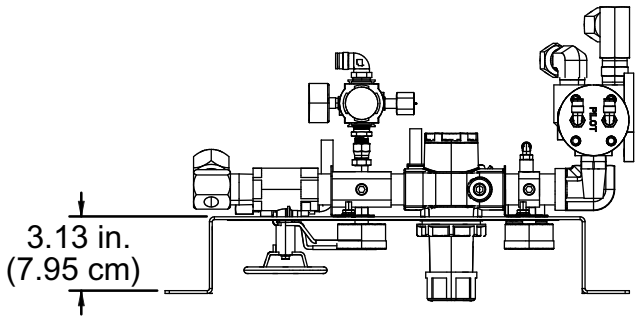




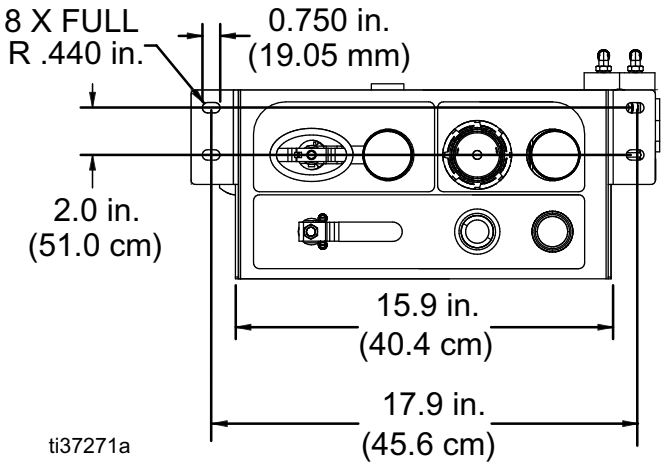
Control Box Assembly







Air Control Assembly



Technical Specifications

XM Plural-Component OEM Sprayer		
	US	**Metric**
Mixed ratio range	1:1-10:1 (in 0.1 increments)	
Ratio tolerance range	+/- 5%	
Flow rates		
Minimum*	1 qt./min.	0.95 liter/min.
Maximum	3 gal./min.	11.4 liter/min.
Fluid viscosity range	200-20,000 cps (heavier viscosities can be mixed using heat, circulation, and/or pressure feeding)	
Fluid filtration	60 mesh, (238 micron) standard on pump outlets (filter assembly not included on some models)	
Air inlet	1 npt(f)	
Fluid inlets 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
Maximum pump inlet fluid feed pressure	250 psi	1.7 MPa, 17 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 air consumption at 100 psi (0.7 MPa, 7.0 bar) in scfm (m^3/min.)	70 scfm per gpm (1.96 m^3min. per lpm)	
Air supply pressure range	50-150 psi	0.35-1.0 MPa, 3.5-10.3 bar
Noise dB(A)		
Operating Pressure 70 psi (0.48 MPa, 4.8 bar)		
† Sound power	84.8 dB(A)	
‡ Sound pressure measured per ISO 3744	95.1 dB(A)	
Operating Pressure 100 psi (0.7 MPa, 7 bar)		
† Sound power	91.7 dB(A)	
‡ Sound pressure measured per ISO 3744	102.0 dB(A)	
Environmental conditions rating (indoor/outdoor use)		
Altitude Rating	Altitudes up to 13,123 ft	Altitudes up to 4000 m
Maximum relative humidity	To 99% up to 130 °F	To 99% up to 54 °C
Pollution degree	11	
Installation category	2	

XM Plural-Component OEM Sprayer		
	US	**Metric**

** Minimum flow rate is dependent on the material being sprayed and its mixing capability. Test your material specific to the flow rate.*

Wetted Parts	
Suction tubes	aluminum
Hoses	nylon
Pumps (A and B)	carbon steel, alloy steel, 303, 440, 17-ph grades stainless steel, zinc and nickel plating, ductile iron, tungsten carbide, PTFE, leather carbon steel, nickel plating, carbide, polyethylene, leather
Metering valves	carbon steel, nickel plating, carbide, 302 stainless steel
Manifold	PTFE, UHMWPE
Supply Voltage	
Wall Power	100-240VAC, 50/60 Hz
Altenator	N/A
Notes	
All trademarks or registered trademarks are the property of their respective owners.	

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.

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