

# Merkur™ Bellows AA and Airless Spray Packages

312799S

EN

*Spray packages with a bellows seal for use with isocyanates, UV coatings, acid catalysts, and other moisture-sensitive materials. For professional use only.*

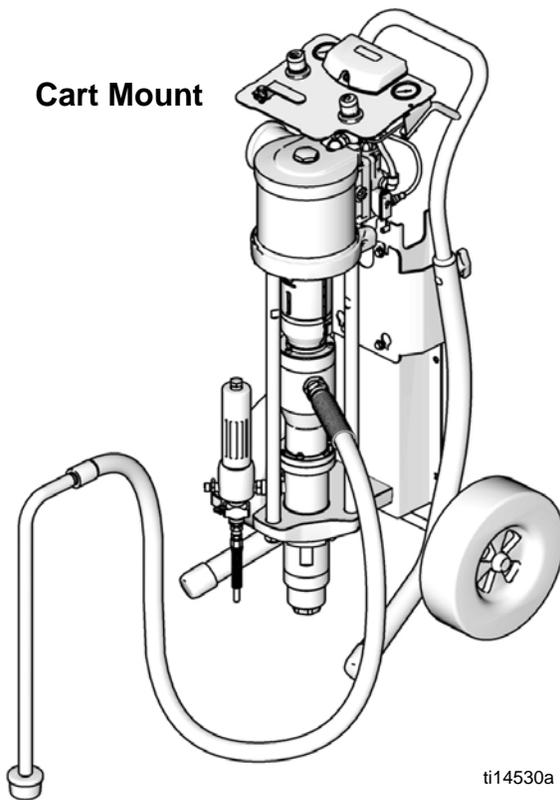


**Important Safety Instructions**

Read all warnings and instructions in this manual.  
Save these instructions.

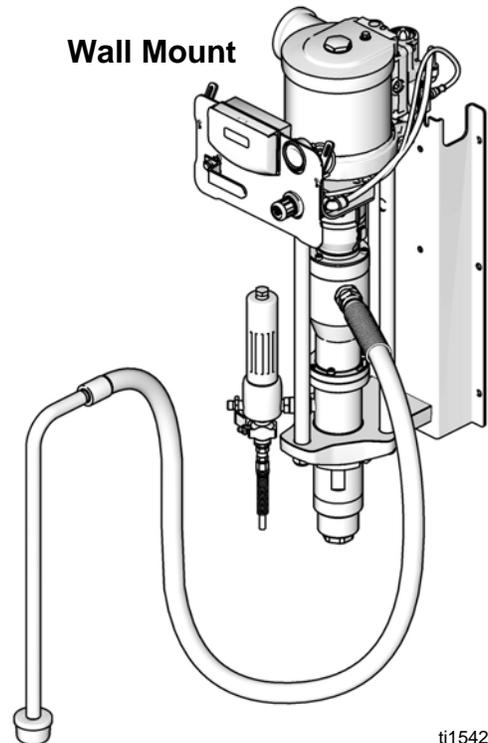
See pages 10-15 for model information, including maximum air inlet pressures and maximum fluid working pressures.

**Cart Mount**



ti14530a

**Wall Mount**



ti15428b

# Contents

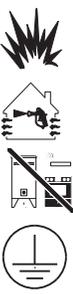
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## Related Manuals

Manual	Description
312793	Merkur Bellows Displacement Pump
312795	Merkur Bellows Pump Assembly
312796	NXT™ Air Motor
312798	Merkur Electrostatic Packages
3A0149	G15/G40 Spray Gun
312145	XTR™5 and XTR™7 Airless Spray Gun
307273	Fluid Outlet Filter

# 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, refer back to these Warnings. Additional, product-specific warnings may be found throughout the body of this manual where applicable.

 <b>WARNING</b>	
	<p><b>FIRE AND EXPLOSION HAZARD</b></p> <p>Flammable fumes, such as solvent and paint fumes, in <b>work area</b> can ignite or explode. To help prevent fire and explosion:</p> <ul style="list-style-type: none"> <li>• Use equipment only in well ventilated area.</li> <li>• Eliminate all ignition sources; such as pilot lights, cigarettes, portable electric lamps, and plastic drop cloths (potential static arc).</li> <li>• Keep work area free of debris, including solvent, rags and gasoline.</li> <li>• Do not plug or unplug power cords, or turn power or light switches on or off when flammable fumes are present.</li> <li>• Ground all equipment in the work area. See <b>Grounding</b> instructions.</li> <li>• Use only grounded hoses.</li> <li>• Hold gun firmly to side of grounded pail when triggering into pail.</li> <li>• If there is static sparking or you feel a shock, <b>stop operation immediately</b>. Do not use equipment until you identify and correct the problem.</li> <li>• Keep a working fire extinguisher in the work area.</li> </ul> <p>Static charge may build up on plastic parts during cleaning and could discharge and ignite flammable vapors. To help prevent fire and explosion:</p> <ul style="list-style-type: none"> <li>• Clean plastic parts only in a well ventilated area.</li> <li>• Do not clean with a dry cloth.</li> <li>• Do not operate electrostatic guns in equipment work area.</li> </ul>
	<p><b>SPECIAL CONDITIONS FOR SAFE USE</b></p> <p>Equipment must comply with the following conditions to avoid a hazardous condition which can cause fire or explosion.</p> <ul style="list-style-type: none"> <li>• All label and marking material must be cleaned with a damp cloth (or equivalent).</li> <li>• The electronic monitoring system is required to be grounded. See <b>Grounding</b> instructions.</li> </ul>
	<p><b>SKIN INJECTION HAZARD</b></p> <p>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. <b>Get immediate surgical treatment.</b></p> <ul style="list-style-type: none"> <li>• Do not spray without tip guard and trigger guard installed.</li> <li>• Engage trigger lock when not spraying.</li> <li>• Do not point gun at anyone or at any part of the body.</li> <li>• Do not put your hand over the spray tip.</li> <li>• Do not stop or deflect leaks with your hand, body, glove, or rag.</li> <li>• Follow the <b>Pressure Relief Procedure</b> when you stop spraying and before cleaning, checking, or servicing equipment.</li> <li>• Tighten all fluid connections before operating the equipment.</li> <li>• Check hoses and couplings daily. Replace worn or damaged parts immediately.</li> </ul>

# ⚠️ WARNING

  	<p><b>EQUIPMENT MISUSE HAZARD</b></p> <p>Misuse can cause death or serious injury.</p> <ul style="list-style-type: none"> <li>• Do not operate the unit when fatigued or under the influence of drugs or alcohol.</li> <li>• Do not exceed the maximum working pressure or temperature rating of the lowest rated system component. See <b>Technical Data</b> in all equipment manuals.</li> <li>• Use fluids and solvents that are compatible with equipment wetted parts. See <b>Technical Data</b> in all equipment manuals. Read fluid and solvent manufacturer's warnings. For complete information about your material, request MSDS from distributor or retailer.</li> <li>• Do not leave the work area while equipment is energized or under pressure. Turn off all equipment and follow the <b>Pressure Relief Procedure</b> when equipment is not in use.</li> <li>• Check equipment daily. Repair or replace worn or damaged parts immediately with genuine manufacturer's replacement parts only.</li> <li>• Do not alter or modify equipment.</li> <li>• Use equipment only for its intended purpose. Call your distributor for information.</li> <li>• Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces.</li> <li>• Do not kink or over bend hoses or use hoses to pull equipment.</li> <li>• Keep children and animals away from work area.</li> <li>• Comply with all applicable safety regulations.</li> </ul>
 	<p><b>MOVING PARTS HAZARD</b></p> <p>Moving parts can pinch, cut or amputate fingers and other body parts.</p> <ul style="list-style-type: none"> <li>• Keep clear of moving parts.</li> <li>• Do not operate equipment with protective guards or covers removed.</li> <li>• Pressurized equipment can start without warning. Before checking, moving, or servicing equipment, follow the <b>Pressure Relief Procedure</b> and disconnect all power sources.</li> </ul>
	<p><b>SUCTION HAZARD</b></p> <p>Powerful suction could cause serious injury.</p> <ul style="list-style-type: none"> <li>• Never place hands near the pump fluid inlet when pump is operating or pressurized.</li> </ul>
	<p><b>TOXIC FLUID OR FUMES HAZARD</b></p> <p>Toxic fluids or fumes can cause serious injury or death if splashed in the eyes or on skin, inhaled, or swallowed.</p> <ul style="list-style-type: none"> <li>• Read MSDSs to know the specific hazards of the fluids you are using.</li> <li>• Store hazardous fluid in approved containers, and dispose of it according to applicable guidelines.</li> <li>• Always wear chemically impermeable gloves when spraying, dispensing, or cleaning equipment.</li> </ul>
	<p><b>PERSONAL PROTECTIVE EQUIPMENT</b></p> <p>You must wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect you from serious injury, including eye injury, hearing loss, inhalation of toxic fumes, and burns. This equipment includes but is not limited to:</p> <ul style="list-style-type: none"> <li>• Protective eyewear, and hearing protection.</li> <li>• Respirators, protective clothing, and gloves as recommended by the fluid and solvent manufacturer.</li> </ul>

# Important Two-Component Material Information

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

## Isocyanate Conditions

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

- Read and understand the fluid manufacturer's warnings and Safety Data Sheet (SDS) 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 SDS.
- 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 SDS.
- 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.

## Material Self-ignition

						
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Some materials may become self-igniting if applied too thick. Read material manufacturer's warnings and Safety Data Sheet (SDS).

## Keep Components A and B Separate

						
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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 crystals, which become suspended in the fluid. Eventually a film will form on the surface and the ISO will begin to gel, increasing in viscosity.

### 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 aminies on the A (resin) side.

# Important Acid Catalyst Information

This pump is designed for acid catalysts (“acid”) currently used in two-component, wood-finishing materials. Current acids in use (with pH levels as low as 1) are more corrosive than earlier acids. More corrosion-resistant wetted materials of construction are required, and must be used without substitution, to withstand the increased corrosive properties of these acids.

## Acid Catalyst Conditions



Acid is flammable, and spraying or dispensing acid creates potentially harmful mists, vapors, and atomized particulates. To help prevent fire and explosion and serious injury:

- Read and understand the fluid manufacturer’s warnings and Safety Data Sheet (SDS) to know specific hazards and precautions related to the acid.
- Use only genuine, manufacturer’s recommended acid-compatible parts in the catalyst system (hoses, fittings, etc). A reaction may occur between any substituted parts and the acid.
- To prevent inhalation of acid 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 acid manufacturer’s SDS.
- Avoid all skin contact with acid. Everyone in the work area must wear chemically impermeable gloves, protective clothing, foot coverings, aprons, and face shields as recommended by the acid manufacturer and local regulatory authority. Follow all fluid manufacturer recommendations, including those regarding handling of contaminated clothing. Wash hands and face before eating or drinking.
- Regularly inspect equipment for potential leaks and remove spills promptly and completely to avoid direct contact or inhalation of the acid and its vapors.
- Keep acid away from heat, sparks, and open flames. Do not smoke in the work area. Eliminate all ignition sources.
- Store acid in the original container in a cool, dry, and well-ventilated area away from direct sunlight and away from other chemicals in accordance with acid manufacturer’s recommendations. To avoid corrosion of containers, do not store acid in substitute containers. Reseal the original container to prevent vapors from contaminating the storage space and surrounding facility.

## Moisture Sensitivity of Acid Catalysts

Acid catalysts can be sensitive to atmospheric moisture and other contaminants. It is recommended the catalyst pump and valve seal areas exposed to atmosphere are flooded with ISO oil, TSL, or other compatible material to prevent acid build-up and premature seal damage and failure.

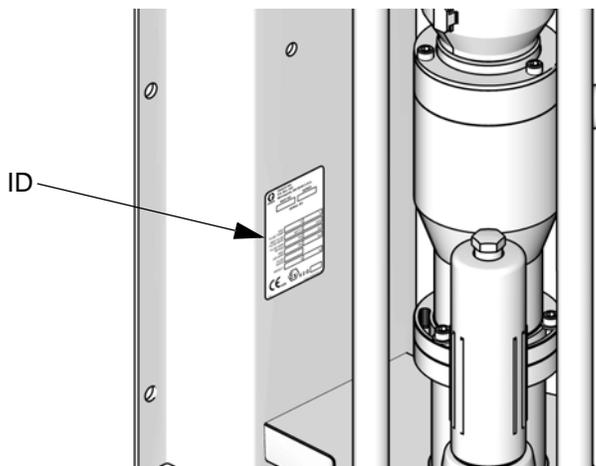
### NOTICE

Acid build-up will damage the valve seals and reduce the performance and life of the catalyst pump. To prevent exposing acid to moisture:

- Always use a sealed container with a desiccant dryer in the vent, or a nitrogen atmosphere. Never store acids in an open container.
- Keep the catalyst pump and the valve seals filled with the appropriate lubricant. The lubricant creates a barrier between the acid and the atmosphere.
- Use only moisture-proof hoses compatible with acids.
- Always lubricate threaded parts with an appropriate lubricant when reassembling.

# Models

Check the identification plate (ID) for the 6-digit part number of your package. Use the following matrix and tables to define the components of your package. For example, package number **G15B54** represents a Merkur package (**G**), with a 15:1 ratio pump (**15**), bellows style (**B**), and the components shown for (**54**) in the table on page 11.



ti15432a

<b>G</b>	<b>15</b>		<b>B</b>		<b>54</b>
First Digit	Second and Third Digits (Ratio)		Fourth Digit (Pump Style)		Fifth and Sixth Digit (Components Included)
<b>G</b> (Merkur Package)	<b>05</b>	5:1	<b>B</b>	Bellows	See Tables, pages 10 to 15
	<b>12</b>	12:1			
	<b>15</b>	15:1			
	<b>23</b>	23:1			
	<b>24</b>	24:1			
	<b>25</b>	25:1			
	<b>35</b>	35:1			

DataTrak™ includes agency approvals listed below.



Intertek  
9902471  
Class I, Div. 1,  
Group D T3A



Ex ia IIA T3 Ga  
ITS13ATEX27862X

## 5:1 Packages (G05Bxx)

Maximum Inlet Air Pressure: 100 psi (0.7 MPa, 7 bar)

Maximum Fluid Working Pressure: 500 psi (3.4 MPa, 34 bar)

Model		Pump Assembly	Gun	Air Controls		Fluid Filter	Data Trak	Maximum Fluid Flow Rate gpm (lpm)	Weight - lb/kg	
Wall Mount	Cart Mount			Pump Only	Pump and Gun				Wall Mount	Cart Mount
G05B01	G05B03	B05FA0	None	✓		✓	2.4 (9.0)	70 (31.8)	99 (45.0)	
G05B02	G05B04	B05FB0	None	✓		✓		71 (32.2)	100 (45.5)	
G05B05	G05B07	B05FA0	None	✓				65 (29.5)	94 (42.8)	
G05B06	G05B08	B05FB0	None	✓				66 (30.0)	95 (43.2)	
G05B09	G05B11	B05FA1	None	✓		✓		70 (31.8)	99 (45.0)	
G05B10	G05B12	B05FB1	None	✓		✓		71 (32.2)	100 (45.5)	
G05B13	G05B15	B05FA1	None	✓				65 (29.5)	94 (42.8)	
G05B14	G05B16	B05FB1	None	✓		✓		66 (30.0)	95 (43.2)	

## 12:1 Packages (G12Bxx)

Maximum Inlet Air Pressure: 100 psi (0.7 MPa, 7 bar)

Maximum Fluid Working Pressure: 1200 psi (8.3 MPa, 83 bar)

Model		Pump Assembly	Gun	Air Controls		Fluid Filter	Data Trak	Maximum Fluid Flow Rate gpm (lpm)	Weight - lb/kg	
Wall Mount	Cart Mount			Pump Only	Pump and Gun				Wall Mount	Cart Mount
G12B01	G12B03	B12DA0	None	✓		✓	1.6 (6.0)	76 (34.5)	105 (47.6)	
G12B02	G12B04	B12DB0	None	✓		✓		77 (35.0)	106 (48.1)	
G12B05	G12B07	B12DA0	None	✓				71 (32.2)	100 (45.4)	
G12B06	G12B08	B12DB0	None	✓				72 (32.7)	101 (45.8)	
G12B09	G12B11	B12DA1	None	✓		✓		76 (34.5)	105 (47.6)	
G12B10	G12B12	B12DB1	None	✓		✓		77 (35.0)	106 (48.1)	
G12B13	G12B15	B12DA1	None	✓				71 (32.2)	100 (45.4)	
G12B14	G12B16	B12DB1	None	✓		✓		72 (32.7)	101 (45.8)	

# 15:1 Packages (G15Bxx)

Maximum Inlet Air Pressure: 100 psi (0.7 MPa, 7 bar)

Maximum Fluid Working Pressure: 1500 psi (10.3 MPa, 103 bar)

Model		Pump Assembly	Air Controls		Gun	Hoses		Accessories		Data Trak	Maximum Fluid Flow Rate gpm (lpm)	Weight - lb/kg	
Wall Mount	Cart Mount		Pump Only	Pump and Gun		Gun Fluid	Gun Air	Siphon Kit	Fluid Filter			Wall Mount	Cart Mount
G15B01	G15B05	B15BA0	✓		None				✓		0.8 (3.0)	54 (24.3)	83 (37.6)
G15B02	G15B06	B15BB0	✓		None				✓	✓		55 (24.7)	84 (38.1)
G15B03	G15B07	B15BA0		✓	G15 Carbide	✓	✓	✓	✓*			64 (29.0)	93 (42.2)
G15B04	G15B08	B15BB0		✓	G15 Carbide	✓	✓	✓	✓*	✓		65 (29.5)	94 (42.6)
G15B09	G15B13	B15BA0	✓		None							49(22.3)	78 (35.4)
G15B10	G15B14	B15BB0	✓		None					✓		50 (22.7)	79 (35.8)
G15B11	G15B15	B15BA0		✓	G15 Carbide	✓	✓	✓				59 (26.8)	88 (39.9)
G15B12	G15B16	B15BB0		✓	G15 Carbide	✓	✓	✓		✓		60 (27.2)	89 (40.4)
G15B17	G15B21	B15BA1	✓		None				✓			54 (24.3)	83 (37.6)
G15B18	G15B22	B15BB1	✓		None				✓	✓		55 (24.7)	84 (38.1)
G15B19	G15B23	B15BA1		✓	G15 Carbide	✓	✓	✓	✓*			64 (29.0)	93 (42.2)
G15B20	G15B24	B15BB1		✓	G15 Carbide	✓	✓	✓	✓*	✓		65 (29.5)	94 (42.6)
G15B25	G15B29	B15BA1	✓		None							49(22.3)	78 (35.4)
G15B26	G15B30	B15BB1	✓		None					✓		50 (22.7)	79 (35.8)
G15B27	G15B31	B15BA1		✓	G15 Carbide	✓	✓	✓			59 (26.8)	88 (39.9)	
G15B28	G15B32	B15BB1		✓	G15 Carbide	✓	✓	✓		✓	60 (27.2)	89 (40.4)	
G15B51	G15B55	B15FA0	✓		None				✓		2.4 (9.0)	87 (39.5)	116 (52.6)
G15B52	G15B56	B15FB0	✓		None				✓	✓		88 (39.9)	117 (53.1)
G15B53	G15B57	B15FA0		✓	G15 Carbide	✓	✓	✓	✓*			97 (44.0)	126 (57.2)
G15B54	G15B58	B15FB0		✓	G15 Carbide	✓	✓	✓	✓*	✓		98 (44.5)	127 (57.6)
G15B59	G15B63	B15FA0	✓		None							82 (37.2)	111 (50.3)
G15B60	G15B64	B15FB0	✓		None					✓		83 (37.6)	112 (50.8)
G15B61	G15B65	B15FA0		✓	G15 Carbide	✓	✓	✓				92 (41.8)	121 (54.9)
G15B62	G15B66	B15FB0		✓	G15 Carbide	✓	✓	✓		✓		93 (42.2)	122 (55.3)
G15B67	G15B71	B15FA1	✓		None				✓			87 (39.5)	116 (52.6)
G15B68	G15B72	B15FB1	✓		None				✓	✓		88 (39.9)	117 (53.1)
G15B69	G15B73	B15FA1		✓	G15 Carbide	✓	✓	✓	✓*			97 (44.0)	126 (57.2)
G15B70	G15B74	B15FB1		✓	G15 Carbide	✓	✓	✓	✓*	✓		98 (44.5)	127 (57.6)
G15B75	G15B79	B15FA1	✓		None							82 (37.2)	111 (50.3)
G15B76	G15B80	B15FB1	✓		None					✓		83 (37.6)	112 (50.8)
G15B77	G15B81	B15FA1		✓	G15 Carbide	✓	✓	✓			92 (41.8)	121 (54.9)	
G15B78	G15B82	B15FB1		✓	G15 Carbide	✓	✓	✓		✓	93 (42.2)	122 (55.3)	

\* Fluid filter includes fluid drain valve.

## 23:1 Packages (G23Bxx)

Maximum Inlet Air Pressure: 100 psi (0.7 MPa, 7 bar)

Maximum Fluid Working Pressure: 2300 psi (15.9 MPa, 159 bar)

Model		Pump Assembly	Air Controls		Gun	Hoses		Accessories		Data Trak	Maximum Fluid Flow Rate gpm (lpm)	Weight - lb/kg	
Wall Mount	Cart Mount		Pump Only	Pump and Gun		Gun Fluid	Gun Air	Siphon Kit	Fluid Filter			Wall Mount	Cart Mount
G23B01	G23B05	B23DA0	✓		None				✓		1.6 (6.0)	83 (37.6)	112 (50.8)
G23B02	G23B06	B23DB0	✓		None				✓	✓		84 (38.1)	113 (51.4)
G23B03	G23B07	B23DA0		✓	G40	✓	✓	✓	✓*			93 (42.2)	122 (55.3)
G23B04	G23B08	B23DB0		✓	G40	✓	✓	✓	✓*	✓		94 (42.6)	123 (55.8)
G23B09	G23B13	B23DA0	✓		None							78 (35.4)	107 (48.6)
G23B10	G23B14	B23DB0	✓		None					✓		79 (35.8)	108 (49.1)
G23B11	G23B15	B23DA0		✓	G40	✓	✓	✓				88 (39.9)	117 (53.1)
G23B12	G23B16	B23DB0		✓	G40	✓	✓	✓		✓		89 (40.4)	118 (53.5)
G23B17	G23B21	B23DA1	✓		None				✓			83 (37.6)	112 (50.8)
G23B18	G23B22	B23DB1	✓		None				✓	✓		84 (38.1)	113 (51.4)
G23B19	G23B23	B23DA1		✓	G40	✓	✓	✓	✓*			93 (42.2)	122 (55.3)
G23B20	G23B24	B23DB1		✓	G40	✓	✓	✓	✓*	✓		94 (42.6)	123 (55.8)
G23B25	G23B29	B23DA1	✓		None							78 (35.4)	107 (48.6)
G23B26	G23B30	B23DB1	✓		None					✓		79 (35.8)	108 (49.1)
G23B27	G23B31	B23DA1		✓	G40	✓	✓	✓				88 (39.9)	117 (53.1)
G23B28	G23B32	B23DB1		✓	G40	✓	✓	✓		✓		89 (40.4)	118 (53.5)
	G23B35	B23DA0	✓		XTR	✓		✓	✓*				123 (55.8)
	G23B36	B23DB0	✓		XTR	✓		✓	✓*	✓			124 (56.2)

### Acid Bellows Models:

G23B37			✓		None				✓*		1.6 (6.0)	83 (37.6)	
G23B38			✓		None				✓*	✓		83 (37.6)	

\* Fluid filter includes fluid drain valve.

## 24:1 Packages (G24Bxx)

Maximum Inlet Air Pressure: 100 psi (0.7 MPa, 7 bar)

Maximum Fluid Working Pressure: 2400 psi (16.5 MPa, 165 bar)

Model		Pump Assembly	Air Controls		Gun	Hoses		Accessories		Data Trak	Maximum Fluid Flow Rate gpm (lpm)	Weight - lb/kg	
Wall Mount	Cart Mount		Pump Only	Pump and Gun		Gun Fluid	Gun Air	Siphon Kit	Fluid Filter			Wall Mount	Cart Mount
G24B01	G24B05	B24FA0	✓		None				✓		2.4 (9.0)	90 (40.8)	119 (54.0)
G24B02	G24B06	B24FB0	✓		None				✓	✓		91 (41.3)	120 (54.4)
G24B03	G24B07	B24FA0		✓	G40	✓	✓	✓	✓*			100 (45.4)	129 (58.5)
G24B04	G24B08	B24FB0		✓	G40	✓	✓	✓	✓*	✓		101 (45.8)	130 (59.0)
G24B09	G24B13	B24FA0	✓		None							85 (38.6)	104 (47.1)
G24B10	G24B14	B24FB0	✓		None					✓		86 (39.0)	105 (47.6)
G24B11	G24B15	B24FA0		✓	G40	✓	✓	✓				95 (43.1)	124 (56.2)
G24B12	G24B16	B24FB0		✓	G40	✓	✓	✓		✓		96 (43.5)	125 (56.7)
G24B17	G24B21	B24FA1	✓		None				✓			90 (40.8)	119 (54.0)
G24B18	G24B22	B24FB1	✓		None				✓	✓		91 (41.3)	120 (54.4)
G24B19	G24B23	B24FA1		✓	G40	✓	✓	✓	✓*			100 (45.4)	129 (58.5)
G24B20	G24B24	B24FB1		✓	G40	✓	✓	✓	✓*	✓		101 (45.8)	130 (59.0)
G24B25	G24B29	B24FA1	✓		None							85 (38.6)	104 (47.1)
G24B26	G24B30	B24FB1	✓		None					✓		86 (39.0)	105 (47.6)
G24B27	G24B31	B24FA1		✓	G40	✓	✓	✓				95 (43.1)	124 (56.2)
G24B28	G24B32	B24FB1		✓	G40	✓	✓	✓		✓		96 (43.5)	125 (56.7)
	G24B35	B24FA0	✓		XTR	✓		✓	✓*				124 (56.2)
	G24B36	B24FB0	✓		XTR	✓		✓	✓*	✓			125 (56.7)

\* Fluid filter includes fluid drain valve.

## 25:1 Packages (G25Bxx)

Maximum Inlet Air Pressure: 100 psi (0.7 MPa, 7 bar)

Maximum Fluid Working Pressure: 2500 psi (17.2 MPa, 172 bar)

Model		Pump Assembly	Air Controls		Gun	Hoses		Accessories		Data Trak	Maximum Fluid Flow Rate gpm (lpm)	Weight - lb/kg	
Wall Mount	Cart Mount		Pump Only	Pump and Gun		Gun Fluid	Gun Air	Siphon Kit	Fluid Filter			Wall Mount	Cart Mount
G25B01	G25B05	B25BA0	✓		None				✓		0.8 (3.0)	60 (27.2)	89 (40.4)
G25B02	G25B06	B25BB0	✓		None				✓	✓		61 (27.7)	90 (40.8)
G25B03	G25B07	B25BA0		✓	G40	✓	✓	✓	✓*			70 (31.8)	99 (44.9)
G25B04	G25B08	B25BB0		✓	G40	✓	✓	✓	✓*	✓		71 (32.2)	100 (45.4)
G25B09	G25B13	B25BA0	✓		None							55 (24.7)	84 (38.1)
G25B10	G25B14	B25BB0	✓		None					✓		56 (25.1)	85 (38.6)
G25B11	G25B15	B25BA0		✓	G40	✓	✓	✓				65 (29.5)	94 (42.6)
G25B12	G25B16	B25BB0		✓	G40	✓	✓	✓		✓		66 (29.9)	95 (43.1)
G25B17	G25B21	B25BA1	✓		None				✓			60 (27.2)	89 (40.4)
G25B18	G25B22	B25BB1	✓		None				✓	✓		61 (27.7)	90 (40.8)
G25B19	G25B23	B25BA1		✓	G40	✓	✓	✓	✓*			70 (31.8)	99 (44.9)
G25B20	G25B24	B25BB1		✓	G40	✓	✓	✓	✓*	✓		71 (32.2)	100 (45.4)
G25B25	G25B29	B25BA1	✓		None							55 (24.7)	84 (38.1)
G25B26	G25B30	B25BB1	✓		None					✓		56 (25.1)	85 (38.6)
G25B27	G25B31	B25BA1		✓	G40	✓	✓	✓				65 (29.5)	94 (42.6)
G25B28	G25B32	B25BB1		✓	G40	✓	✓	✓		✓		66 (29.9)	95 (43.1)
	G25B33	B25BA0	✓		XTR	✓		✓	✓*				99 (44.9)
	G25B34	B25BB0	✓		XTR	✓		✓	✓*	✓			100 (45.4)

\* Fluid filter includes fluid drain valve.

## 35:1 Packages (G35Bxx)

Maximum Inlet Air Pressure: 100 psi (0.7 MPa, 7 bar)

Maximum Fluid Working Pressure: 3500 psi (24.1 MPa, 241 bar)

Model		Pump Assembly	Air Controls		Gun	Hoses			Accessories		Data Trak	Maximum Fluid Flow Rate gpm (lpm)	Weight - lb/kg	
Wall Mount	Cart Mount		Pump Only	Pump and Gun		Gun Fluid	Gun Fluid Whip	Gun Air	Siphon Kit	Fluid Filter			Wall Mount	Cart Mount
G35B01	G35B05	B35DA0	✓		None					✓		1.6 (6.0)	86 (39.0)	115 (52.2)
G35B02	G35B06	B35DB0	✓		None					✓	✓		87 (39.5)	116 (52.6)
G35B03	G35B07	B35DA0		✓	G40	✓	✓	✓	✓	✓*			96 (43.5)	125 (56.7)
G35B04	G35B08	B35DB0		✓	G40	✓	✓	✓	✓	✓*	✓		97 (44.0)	126 (57.2)
G35B09	G35B13	B35DA0	✓		None								81 (36.7)	110 (49.9)
G35B10	G35B14	B35DB0	✓		None						✓		82 (37.2)	111 (50.3)
G35B11	G35B15	B35DA0		✓	G40	✓	✓	✓	✓				91 (41.3)	120 (54.4)
G35B12	G35B16	B35DB0		✓	G40	✓	✓	✓	✓		✓		92 (41.8)	121 (54.9)
G35B17	G35B21	B35DA1	✓		None					✓			86 (39.0)	115 (52.2)
G35B18	G35B22	B35DB1	✓		None					✓	✓		87 (39.5)	116 (52.6)
G35B19	G35B23	B35DA1		✓	G40	✓	✓	✓	✓	✓*			96 (43.5)	125 (56.7)
G35B20	G35B24	B35DB1		✓	G40	✓	✓	✓	✓	✓*	✓		97 (44.0)	126 (57.2)
G35B25	G35B29	B35DA1	✓		None								81 (36.7)	110 (49.9)
G35B26	G35B30	B35DB1	✓		None						✓		82 (37.2)	111 (50.3)
G35B27	G35B31	B35DA1		✓	G40	✓	✓	✓	✓				91 (41.3)	120 (54.4)
G35B28	G35B32	B35DB1		✓	G40	✓	✓	✓	✓		✓		92 (41.8)	121 (54.9)
	G35B35	B35DA0	✓		XTR	✓	✓		✓	✓*				120 (54.4)
	G35B36	B35DB0	✓		XTR	✓	✓		✓	✓*	✓			121 (54.9)

\* Fluid filter includes fluid drain valve.

# Installation

## General Information

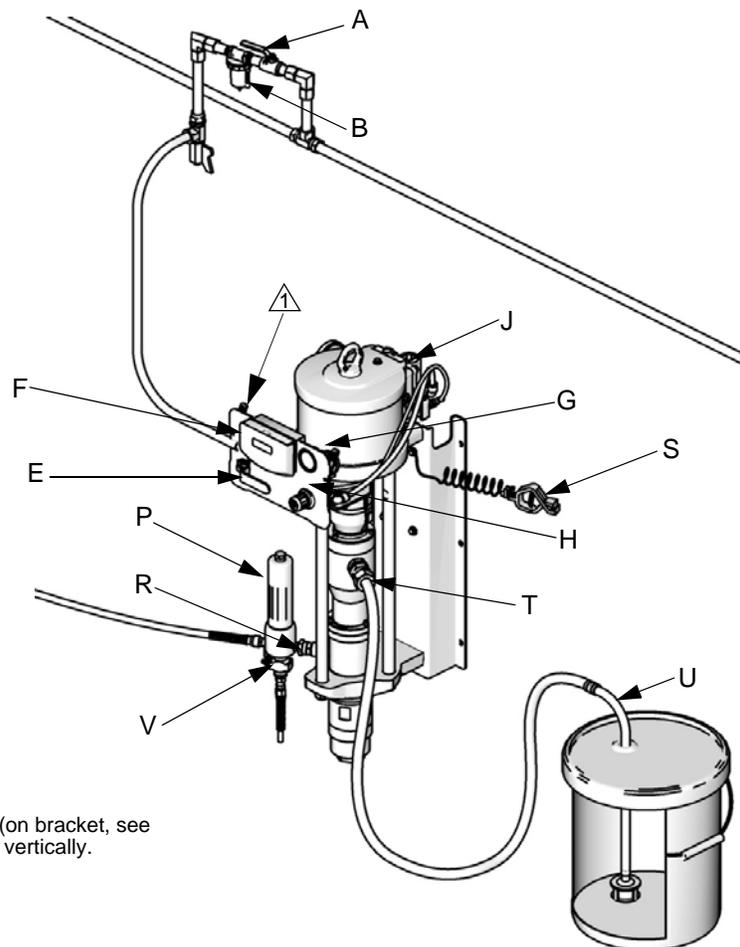
**NOTE:** Reference numbers and letters in parentheses in the text refer to the callouts in the figures and the parts drawing.

**NOTE:** Always use Genuine Graco Parts and Accessories, available from your Graco distributor. If you supply your own accessories, be sure they are adequately sized and pressure-rated for your system.

FIG. 1 and FIG. 2 are only guides for selecting and installing system components and accessories. Contact your Graco distributor for assistance in designing a system to suit your particular needs.

## Prepare the Operator

All persons who operate the equipment must be trained in the operation of all system components as well as the proper handling of all fluids. All operators must thoroughly read all instruction manuals, tags, and labels before operating the equipment.



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⚠ Use alternate mounting holes (on bracket, see page 41) to mount air controls vertically.

**FIG. 1. Typical Wall-Mount Installation**

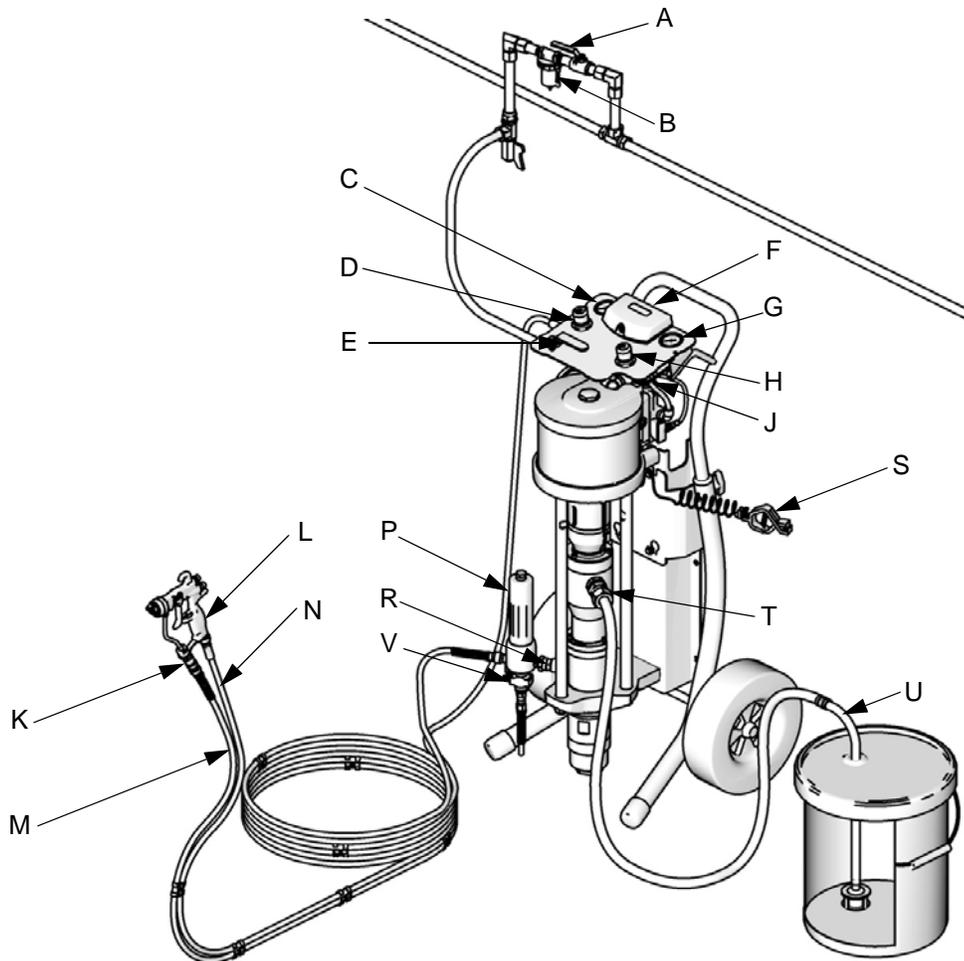
## Prepare the Site

Ensure that you have an adequate compressed air supply.

Bring a compressed air supply line from the air compressor to the pump location. Be sure all air hoses are properly sized and pressure-rated for your system. Use only electrically conductive hoses. The air hose should have a 3/8 npt(m) thread. A quick disconnect coupling is recommended.

Keep the site clear of any obstacles or debris that could interfere with the operator's movement.

Have a grounded, metal pail available for use when flushing the system.



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**FIG. 2. Typical Cart-Mount Installation**

**Key:**

**FIG. 1 and FIG. 2**

- A Air Shutoff Valve
- B Air Filter (optional accessory)
- C Gun Air Pressure Gauge
- D Gun Air Pressure Regulator
- E Bleed Type Master Air Valve
- F DataTrak
- G Pump Air Pressure Gauge
- H Pump Air Pressure Regulator

- J Solenoid Release Button (not visible)
- K Gun Swivel
- L Air-Assisted Spray Gun
- M Gun Fluid Supply Hose
- N Gun Air Supply Hose
- P Fluid Filter
- R Pump Fluid Outlet
- S Grounding Wire
- T Pump Fluid Inlet
- U Suction Hose
- V Fluid Drain Valve

## Mount the Pump

Mount the pump directly to the wall (order Wall Mounting Kit, page 41) or to a Graco cart (order Cart Mounting Kit 24E879).

### Wall-Mounted Pumps

1. Be sure the wall can support the weight of the pump, bracket, hoses and accessories, as well as the stress caused during operation.
2. Position the wall bracket about 1.2-1.5 m (4-5 ft) above the floor. For ease of operation and service, make sure the pump air inlet, fluid inlet, and fluid outlet ports are easily accessible.
3. Using the wall bracket as a template, drill 10 mm (0.4 in.) mounting holes in the wall. Wall mounting dimensions are shown on page 47.
4. Attach the bracket to the wall. Use 9 mm (3/8 in.) screws that are long enough to keep the pump from vibrating during operation.

**NOTE:** Be sure the pump is level.

### Cart-Mounted Pumps

Kit 24E885 is available if you plan to bolt your cart to the floor. It includes two spacers that keep the legs stable. Bolts not included.

## Supplied Components

See FIG. 1 and FIG. 2. **Components vary by package ordered.** See tables on pages 10 to 15. Your package may include:

- The red-handled **bleed-type master air valve (E)** is required in your system to relieve air trapped between it and the air motor and gun when the valve is closed. Do not block access to the valve.

						
Trapped air can cause the pump to cycle unexpectedly, which could result in serious injury from splashing or moving parts.						

Be sure the valve is easily accessible from the pump and located downstream from the air regulator.

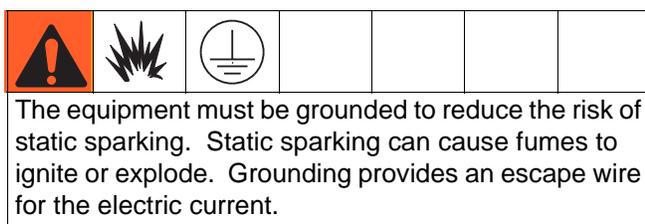
- The **pump air regulator (H)** controls pump speed and outlet pressure by adjusting the air pressure to the pump.
- The **air relief valve** (not shown) opens automatically to prevent overpressurization of the pump.
- The **gun air regulator (D)** adjusts the air pressure to the air-assisted spray gun (L).
- The **air-assisted or airless spray gun (L)** dispenses the fluid. The gun houses the spray tip (not shown), which is available in a wide range of sizes for different spray patterns and rates of flow. Refer to gun manual for tip installation.
- The transparent hose (**N**, labeled “**Air Hose Only**”) provides the gun air supply.
- The blue hose (**M**) provides the **gun fluid supply**.
- The **gun swivel (K)** allows for freer gun movement and comes attached to the blue hose.
- The **suction hose (U)** allows the pump to draw fluid from a 5 gallon (19 liter) pail. A strainer also is supplied. If using non-Graco supplied suction hose, see inlet pressure notice, page 21.
- A **fluid filter (P)** with a 60 mesh (250 micron) stainless steel element filters particles from fluid as it leaves the pump.
- A **fluid drain valve (V)** relieves fluid pressure in the hose and gun.
- **DataTrak (F)** provides pump diagnostics and material usage information. See page 24.

## Air Line Accessories

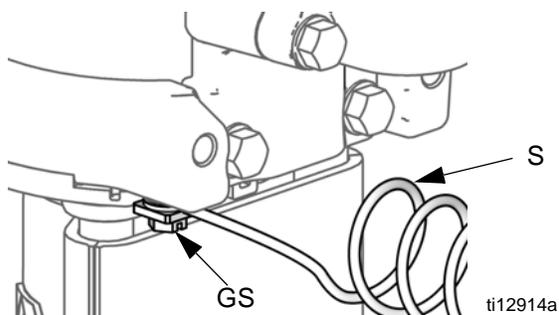
Install the following accessories in the order shown in FIG. 1 and FIG. 2, using adapters as necessary.

- An **air-line filter (B)** removes harmful dirt and moisture from the compressed air supply.
- A **second bleed-type air shutoff valve (A)** isolates the air line accessories for servicing. Locate upstream from all other air line accessories.

## Grounding



**Pump:** See FIG. 3. Verify that the ground screw (GS) is attached and tightened securely to the air motor. Connect the other end of the ground wire (S) to a true earth ground.



**FIG. 3. Ground the Pump.**

**Air and fluid hoses:** Static electricity may build up when fluids flow through pumps, hoses, and sprayers. At least one hose must be electrically conductive, with a maximum of 500 ft. (150 m) combined hose length to ensure grounding continuity. Check electrical resistance of hose. If total resistance to ground exceeds 25 megohms, replace hose immediately.

**Air compressor:** follow manufacturer's recommendations.

**Spray gun / Dispense valve:** Ground the spray gun through connection to a Graco-approved grounded fluid hose.

**Fluid supply container:** follow local code.

**Object being sprayed:** follow local code.

**Solvent pails used when flushing:** follow local code. Use only conductive metal pails, placed on a grounded surface. Do not place the pail on a nonconductive surface, such as paper or cardboard, which interrupts grounding continuity.

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

## Setup

1. See FIG. 2. Attach end of blue fluid hose (M) without gun swivel (K) to pump outlet (R) or filter (P) outlet.
2. Attach one end of the air hose (N) to gun air regulator (D).
3. Attach remaining end of the air hose (N) to air inlet at base of gun (L).
4. Attach other end of blue fluid hose (M), with gun swivel (K), to gun fluid inlet.
5. Clip fluid and air hoses together with the supplied hose clips (qty. of 7). Space clips as needed.
6. Apply lens cover to both regulator gauge lenses. Order Kit 24A540 for 5 sheets of 12 lens covers.
7. Verify that suction hose fittings are tight.

# Operation

## Pressure Relief Procedure

						
Trapped air can cause the pump to cycle unexpectedly, which could result in serious injury from splashing or moving parts.						

1. Lock the gun trigger.
2. See FIG. 2. Turn off the bleed-type master air valve (E).
3. Unlock the gun trigger.
4. Hold a metal part of the gun firmly to a grounded metal waste container. Trigger the gun to relieve fluid pressure.
5. Lock the gun trigger.
6. Open all fluid drain valves in the system, having a waste container ready to catch the drainage. Leave the drain valve(s) open until you are ready to spray again.
7. If you suspect that pressure has not been fully relieved after following the steps above, check the following:
  - a. The spray tip may be completely clogged. Very slowly loosen the air cap retaining ring to relieve pressure in the cavity between the ball/seat shutoff and the plugged tip. Clear the tip orifice.
  - b. The gun fluid filter or the fluid hose may be completely clogged. Very slowly loosen the hose end coupling at the gun and relieve pressure gradually. Then loosen completely to clear the obstruction.
  - c. After following the steps above, if the spray tip or hose still seems completely clogged, very slowly loosen the tip guard retaining nut or hose end coupling and relieve pressure gradually, then loosen completely. With tip removed, trigger gun into waste container.

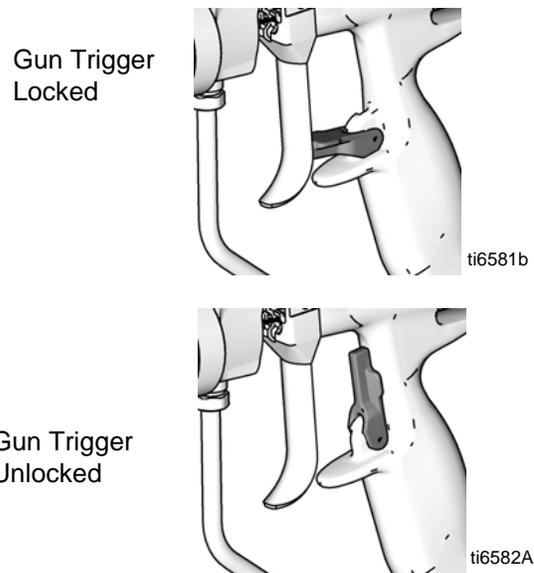
## Flush the Pump Before First Use

The pump is tested with lightweight oil, which is left in to protect the pump parts. If the fluid you are using may be contaminated by the oil, flush it out with a compatible solvent. See **Flushing**, page 23.

## Trigger Lock

						
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See FIG. 4. Always lock the gun trigger when you stop spraying to prevent gun from being triggered accidentally by hand or if dropped or bumped.



**FIG. 4. Gun Trigger Lock**

## Prime and Adjust the Pump

### NOTICE

#### TO PREVENT A BELLOWS FAILURE:

- Do not exceed fluid inlet pressure of 15 psi (0.1 MPa, 1.0 bar).
- Do not use a ball check pump on the inlet side of this pump.
- Do not use a suction tube with a check valve on the inlet side of this pump.

1. Lock the gun trigger. Remove tip guard and spray tip from gun. Refer to gun manual.
2. Close gun air regulator (D) and pump air regulator (H) by turning knobs counterclockwise reducing pressure to zero. Close bleed-type air valve (E). Also verify that all drain valves are closed.
3. Check that all fittings throughout system are tightened securely.
4. Position pail close to pump. Do not stretch suction hose tight; let it hang to assist fluid flow into pump.

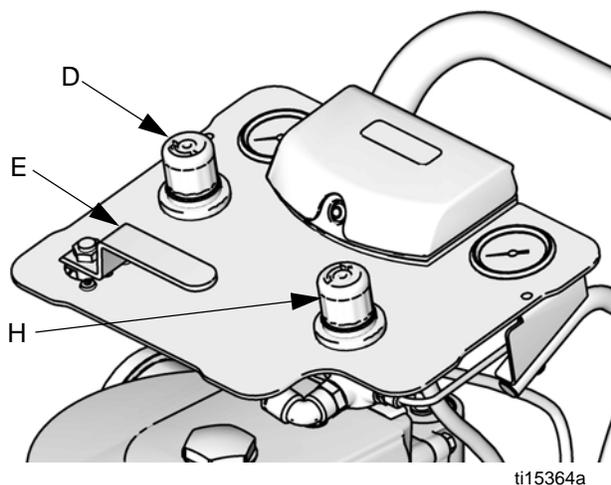


Fig. 5. Air Controls

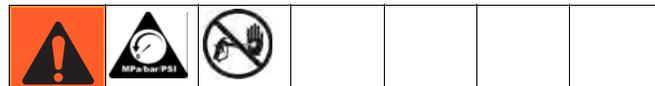
5. Hold metal part of gun (L) firmly to side of grounded metal pail, unlock trigger, and hold trigger open.
6. *Pumps with runaway protection:* Enable the prime/flush function by pushing the prime/flush button on the DataTrak.
7. Open bleed-type air valve (E). Slowly open the pump air regulator (H) until the pump starts.

8. Cycle pump slowly until all air is pushed out and the pump and hoses are fully primed.
9. *Pumps with runaway protection:* Disable the prime/flush function by pushing the prime/flush button on the DataTrak.
10. Release the gun trigger and engage the trigger lock. Pump should stall against pressure.
11. In a direct supply system, with the pump and lines primed, and with adequate air pressure and volume supplied, the pump will start and stop as the gun/valve is opened and closed.
12. In a circulating system, the pump runs continuously and speeds up or slows down as the system demands until the air supply is shut off.
13. Use the air regulator to control the pump speed and the fluid pressure. Always use the lowest air pressure necessary to get the desired results. Higher pressures cause premature tip/nozzle and pump wear.

### NOTICE

Never allow the pump to run dry of the fluid being pumped. A dry pump quickly accelerates to a high speed, possibly damaging itself. If your pump accelerates quickly, or is running too fast, stop it immediately and check the fluid supply. If the supply container is empty and air has been pumped into the lines, refill the container and prime the pump and the lines with fluid, or flush and leave it filled with a compatible solvent. Be sure to eliminate all air from the fluid system.

## Install the Spray Tip



Follow **Pressure Relief Procedure**, page 20. Install the spray tip and tip guard as explained in your separate gun manual, supplied.

The fluid output and pattern width depend on the size of the spray tip, the fluid viscosity, and the fluid pressure. Use the Spray Tip Selection Chart in your gun instruction manual as a guide for selecting an appropriate spray tip for your application.

## Adjust the Spray Pattern



1. Do not turn on atomizing air supply. Fluid pressure is controlled by the air pressure supplied to the pump (pump air regulator). Set fluid pressure at low starting pressure. For low viscosity fluids (less than 25 sec. #2 Zahn cup) with lower percent solids (typically less than 40%), start at 300 psi (2.1 MPa, 21 bar) at pump outlet. For fluids with higher viscosity or higher solids content, start at 600 psi (4.2 MPa, 42 bar). Refer to the following example.

**Example:**

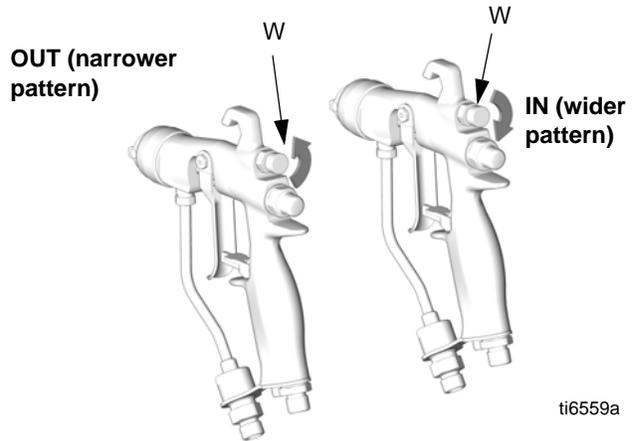
Pump Ratio		Pump Air Regulator Setting psi (MPa, bar)		Approximate Fluid Pressure psig (MPa, bar)
15:1	x	20 (0.14, 1.4)	=	300 (2.1, 21)
30:1	x	20 (0.14, 1.4)	=	600 (4.2, 42)

2. Trigger gun to check atomization; do not be concerned about pattern shape.
3. Hold gun perpendicular and approximately 12 inches (304 mm) from surface.
4. Move gun first, then pull gun trigger to spray onto test paper.
5. Increase fluid pressure in 100 psi (0.7 MPa, 7 bar) increments, just to the point where a further increase in fluid pressure does not significantly improve fluid atomization. Refer to the following example.

**Example:**

Pump Ratio		Pump Air Regulator Increment psi (MPa, bar)		Incremental Fluid Pressure psi (MPa, bar)
15:1	x	7 (.05, 0.5)	=	100 (0.7, 7.0)
30:1	x	3.3 (0.02, 0.2)	=	100 (0.7, 7.0)

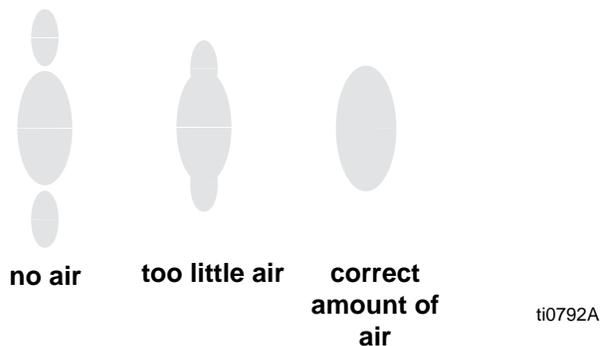
6. See FIG. 6. Close off pattern adjustment air by turning knob (W) clockwise (in) all the way. This sets gun for its widest pattern.



**FIG. 6. Pattern Air Adjustment**

7. See FIG. 7. Set atomizing air pressure at about 5 psi (0.35 bar, 35 kPa) when triggered. Check spray pattern, then slowly increase air pressure until tails are completely atomized and pulled into spray pattern. Do not exceed 100 psi (0.7 MPa, 7 bar) air pressure to gun.

See FIG. 6. For narrower pattern, turn pattern adjustment valve knob (W) counterclockwise (out). If pattern is still not narrow enough, increase air pressure to gun slightly or use different size tip.



**FIG. 7**

## Shutdown



Follow **Pressure Relief Procedure**, page 20.

Always flush the pump before the fluid dries on the displacement rod. See **Flushing** on page 23.

**NOTE:** If the overflow chamber (optional accessory) contains fluid, unscrew the bottle (103) and discard. If it has not been used, the bottle can remain attached to the cap.



To avoid the buildup of static charge, do not rub the plastic bottle with a dry cloth while it is attached to the pump. Remove the bottle to clean, if needed.

## Maintenance

### Preventive Maintenance Schedule

The operating conditions of your particular system determine how often maintenance is required. Establish a preventive maintenance schedule by recording when and what kind of maintenance is needed, and then determine a regular schedule for checking your system.

Replace lens covers on regulator gauge lenses when dirt makes gauges difficult to read.

### Tighten Threaded Connections

Before each use, check all hoses for wear or damage. Replace as necessary. Check that all threaded connections are tight and leak-free.

## Flushing



Read all **Warnings**. Follow all **Grounding** instructions. See page 19.

Flush the pump:

- Before first use
- When changing colors or fluids
- Before fluid dries or settles out in a dormant pump (check the pot life of catalyzed fluids)
- Before storing the pump.

Flush with a fluid that is compatible with the fluid you are pumping and with the wetted parts in your system. Check with your fluid manufacturer or supplier for recommended flushing fluids and flushing frequency.

1. Follow **Pressure Relief Procedure**, page 20.
2. Remove tip guard and spray tip from gun. Refer to separate gun manual.
3. Place suction hose in container of solvent.
4. Hold metal part of gun firmly to side of grounded metal pail.
5. Start pump. Always use lowest possible fluid pressure when flushing.
6. *Units with runaway protection only:* enable the prime/flush function by pushing the prime/flush button on the DataTrak.
7. Trigger gun. Flush system until clear solvent flows from gun.
8. *Units with runaway protection only:* disable the prime/flush function by pushing the prime/flush button on the DataTrak.
9. Follow **Pressure Relief Procedure**, page 20.
10. Clean tip guard, spray tip, and fluid filter element separately, then reinstall them.
11. Clean inside and outside of suction hose.

# DataTrak Controls and Indicators

## Key for FIG. 8

- AA Runaway Limit, in cycles per minute (user settable; 00=OFF)
- AB Lower Displacement (user settable)
- AC Flow Rate Units (user settable to  $\updownarrow$ /min, gpm [US], gpm [Imperial], oz/min [US], oz/min [Imperial], l/min, or cc/min)
- AD LED (fault indicator when lit)
- AE Display
- PF Prime/Flush Key (Enables Prime/Flush mode. While in Prime/Flush mode, runaway protection is disabled and the batch totalizer [BT] will not count.) LED will flash while in Prime/Flush mode.
- RK Reset Key (Resets faults. Press and hold for 3 seconds to clear the batch totalizer.) Push to toggle between flow rate and cycle rate. With runaway enabled, push to extend and retract the solenoid pin.

- CF Cycle/Flow Rate
- BT Batch Totalizer
- GT Grand Totalizer
- RT Runaway Toggle (enable/disable)
- UT E1 Toggle
- DT E2 Toggle
- ST E5 Toggle

**NOTICE**

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

AE, see details at right

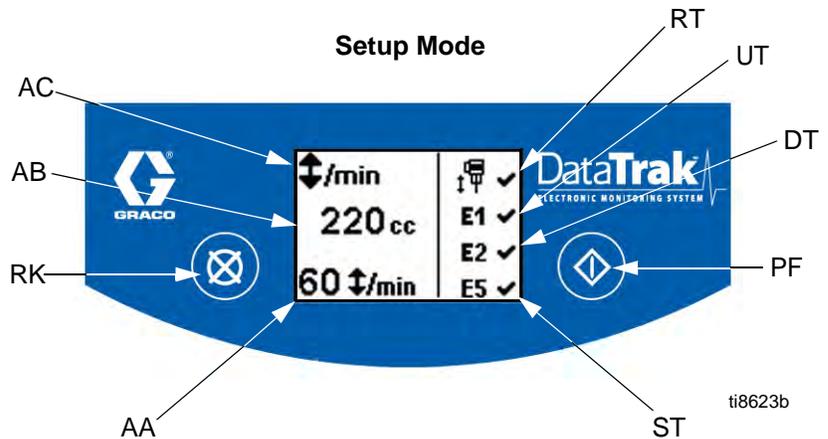
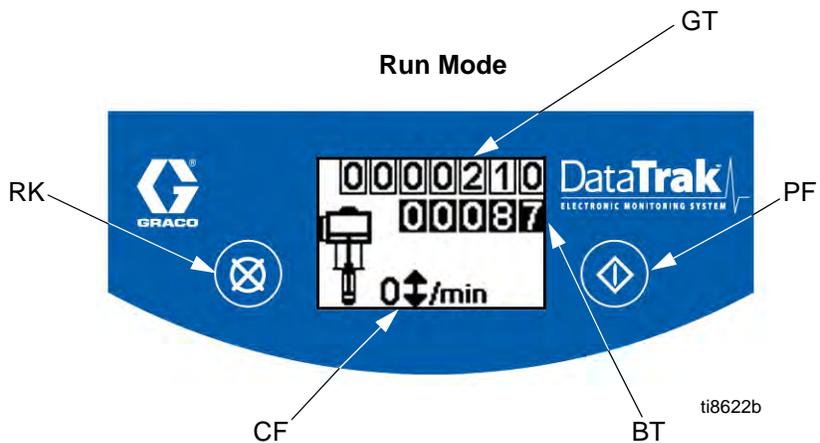
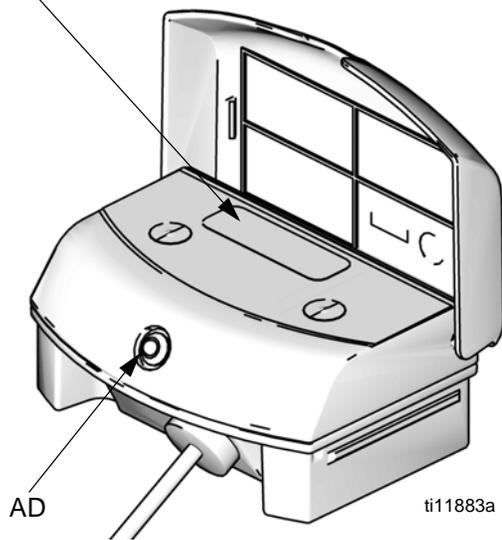


FIG. 8. DataTrak Controls and Indicators

# DataTrak Operation

**NOTE:** The display (AE) will turn off after 1 minute to save battery life. Press any key to wake up the display.

## Setup Mode

1. See FIG. 8. Press and hold  for 5 seconds until Setup menu appears.
2. To enter settings for runaway, lower size, and flow rate units, and to enable runaway, E1, E2, and E5 error options, press  to change the value, then  to save the value and move the cursor to the next data field. See page 27 for a description of E1, E2, and E5 error codes.

**NOTE:** Graco recommends setting runaway to 60

. All DataTrak modules are shipped with runaway monitoring not enabled.

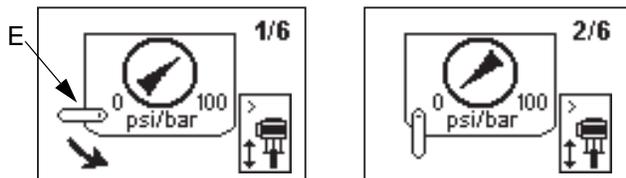
**NOTE:** When runaway, E1, E2, and E5 error options are enabled, a ✓ will appear on the setup screen. See FIG. 8.

3. Move the cursor to the E5 error enable option field, then press  once more to exit Setup mode.

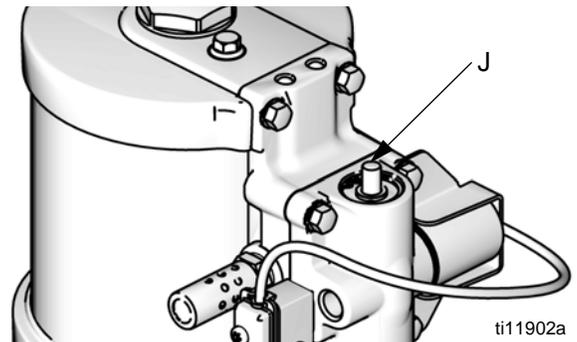
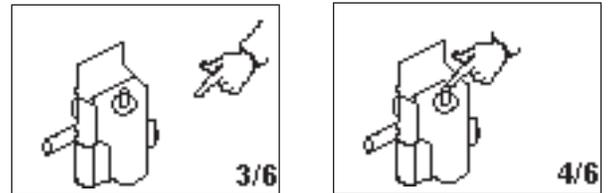
## Run Mode

### Runaway

1. See FIG. 8. If pump runaway occurs, the runaway solenoid will actuate, stopping the pump. The LED (AD) will flash and the display (AE) will indicate a runaway condition (see Table 1). The display will cycle through six instruction screens.
2. Runaway Screens 1 and 2: To reset the runaway solenoid, close the master air valve (E). Wait for air to completely bleed off the air motor.

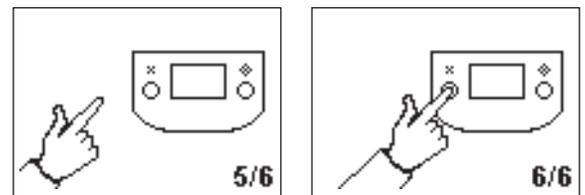


3. Runaway Screens 3 and 4: After the air is bled off, push the solenoid release button (J) down to reset the air valve. The button will pop back up when the air valve is repressurized.



**FIG. 9: Solenoid Release Button**

4. Runaway Screens 5 and 6: Press  to clear the diagnostic code and reset the runaway solenoid.

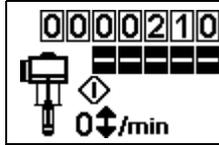


5. Open master air valve (E) to restart pump.

**NOTE:** To disable runaway monitoring, go to setup mode and set runaway value to 0 (zero) or toggle (RT) off  (see FIG. 8).

## Prime/Flush

1. See FIG. 8. To enter Prime/Flush mode, press any key to wake up the display, then press . The Prime/Flush symbol will appear in the display and the LED will flash.



2. While in Prime/Flush mode, runaway protection is disabled and the batch totalizer (BT) will not count. The grand totalizer (GT) continues to count.
3. To exit Prime/Flush mode, press any key to wake up the display, then press . The Prime/Flush symbol will disappear from the display and the LED will stop flashing.

## Counter/Totalizer

See FIG. 8. The last digit of the batch totalizer (BT) represents tenths of gallons or liters. To reset the totalizer, press any key to wake up the display, then press and hold  for 3 seconds.

- If AC is set to gallons or ounces, BT and GT display gallons.
- If AC is set to liters or cc, BT and GT display liters.
- If AC is set to cycles, BT and GT display cycles.

Press  to toggle between flow rate units and cycles. A letter under the BT display indicates that both BT and GT are displaying gallons (g) or liters (l). No letter means both BT and GT are displaying cycles.

## Display

See FIG. 8. The display (AE) will turn off after 1 minute of inactivity in Run mode or 3 minutes in Setup mode. Press any key to wake up the display.

**NOTE:** DataTrak will continue to count cycles when display is off.

**NOTE:** The display (AE) may turn off if a high-level static discharge is applied to the DataTrak. Press any key to wake up the display.

## Diagnostics

DataTrak can diagnose several problems with the pump. When the monitor detects a problem, the LED (AD, FIG. 8) will flash and a diagnostic code will appear on the display. See Table 1.

To acknowledge the diagnosis and return to the normal operating screen, press  once to wake up the display, and once more to clear the diagnostic code screen.

Table 1: Diagnostic Codes

Symbol	Code	Code Name	Diagnosis	Cause
		Runaway	Pump running faster than set runaway limit.	<ul style="list-style-type: none"> <li>Increased air pressure.</li> <li>Increased fluid output.</li> <li>Exhausted fluid supply.</li> </ul>
	E-1	Diving Up	Leak during upstroke.	Worn piston valve or packings.
	E-2	Diving Down	Leak during downstroke.	Worn intake valve.
	E-3	Low Battery	Battery voltage too low to stop runaway.	Low battery. Replace battery; see page 28.
	E-4	Service Component 1	Problem with stopping runaway.	<ul style="list-style-type: none"> <li>Damaged solenoid.</li> <li>Damaged valve carriage.</li> <li>Runaway (RT, FIG. 8) protection may be enabled with pump that is not equipped with a runaway solenoid valve. Enter setup screen and disable runaway protection.</li> </ul>
	E-4	Disconnected Solenoid	<p>Solenoid is disconnected.</p> <p>Solenoid is not engaging piston cup.</p>	<ul style="list-style-type: none"> <li>Solenoid unplugged.</li> <li>Damaged solenoid wires.</li> <li>Bracket and solenoid not tight against air valve housing.</li> </ul>
	E-5	Service Component 2	Problem with sensing valve movement.	<ul style="list-style-type: none"> <li>Sensors unplugged.</li> <li>Sensors mounted incorrectly.</li> <li>Damaged sensors.</li> <li>Damaged valve carriage.</li> </ul>
	E-6	Blown Fuse	Fuse is blown. Replace fuse; see page 28.	<ul style="list-style-type: none"> <li>Faulty solenoid or solenoid wiring.</li> <li>Extreme temperatures (above 140°F [60°C]).</li> <li>Runaway (RT, FIG. 8) protection may be enabled with pump that is not equipped with a runaway solenoid valve. Enter setup screen and disable runaway protection.</li> </ul>

## Replace DataTrak Battery or Fuse

						
<p>To reduce the risk of fire and explosion, the battery and fuse must be replaced in a non-hazardous location.</p> <p>Use only an approved replacement battery, shown in TABLE 2, and an approved fuse, shown in TABLE 3. Use of an unapproved battery or fuse will void Graco's warranty and Intertek and Ex approvals.</p>						

5. Disconnect the used battery and replace with an approved battery. See Table 2.

Table 2. Approved Batteries
Energizer alkaline # 522
Varta alkaline # 4922
Ultralife lithium # U9VL
Duracell alkaline # MN1604

### Replace Battery

1. Unscrew cable from the back of the reed switch assembly. See FIG. 10.
2. Remove the cable from the two cable clips.

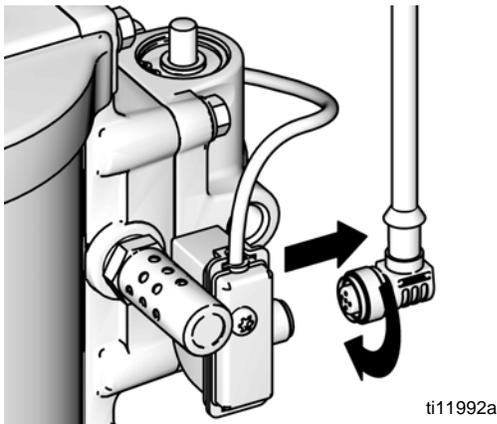


FIG. 10. Disconnect DataTrak

3. Remove DataTrak module from bracket. See FIG. 11. Take module and attached cable to a non-hazardous location.

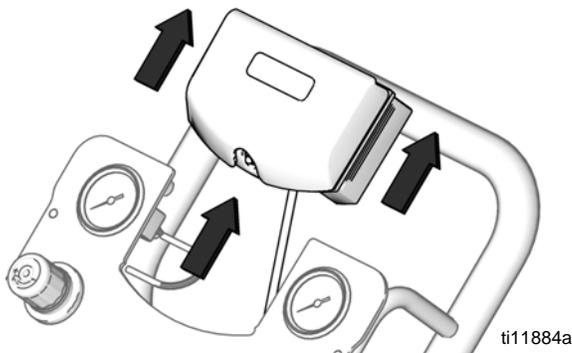


FIG. 11. Remove DataTrak

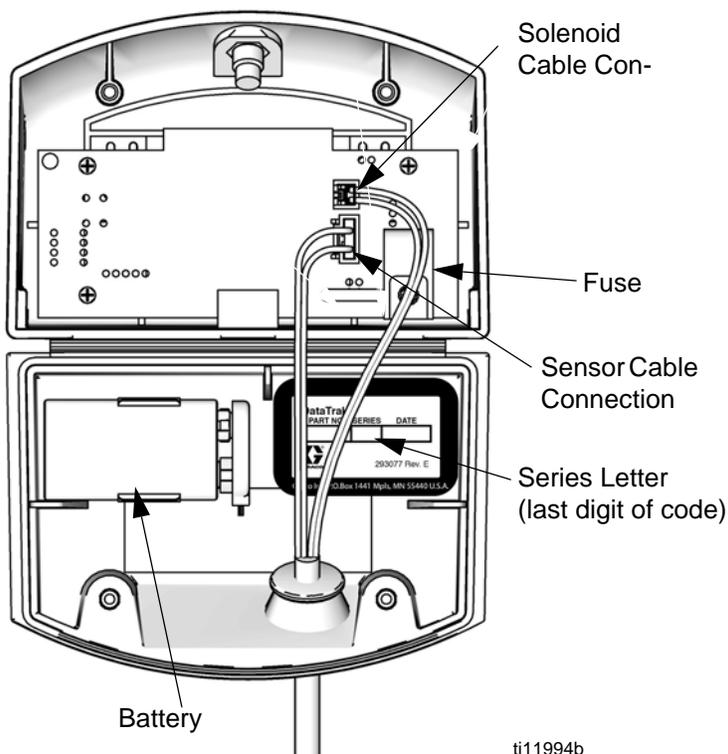
4. Remove two screws on back of module to access battery.

## Replace Fuse

1. Remove the screw, metal strap, and plastic holder.
2. Pull the fuse away from the board.
3. Replace with an approved fuse from Table 3.

DataTrak Part Number	Series*	Fuse Required
289822	A or B	24C580
	C and later	24V216
All other part numbers	A	24C580
	B and later	24V216

\* Fig. 12 shows where to find the Series letter.



ti11994b

**FIG. 12. DataTrak Battery and Fuse Location**

# Troubleshooting



Follow **Pressure Relief Procedure**, page 20, before checking or servicing the equipment.

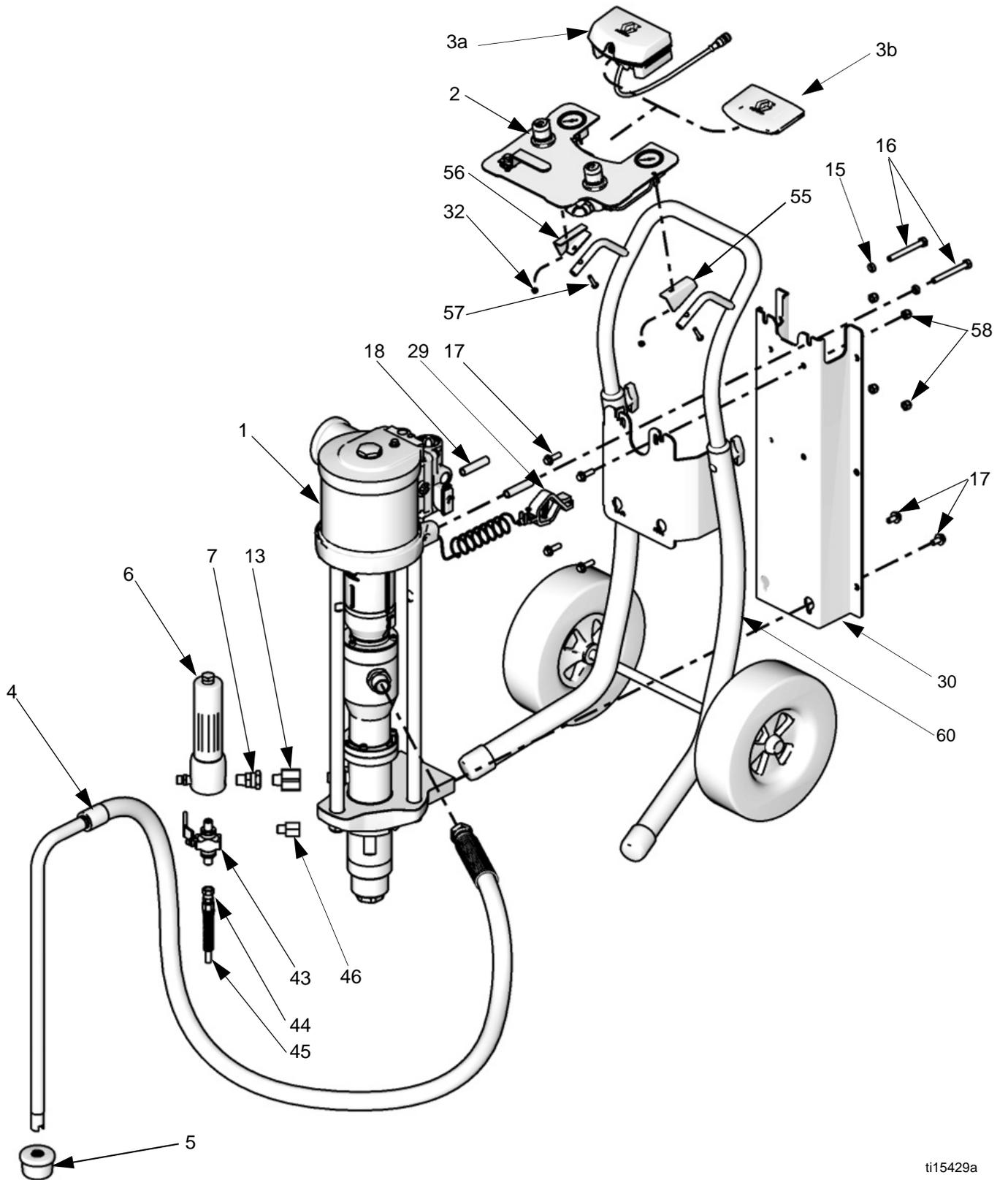
**NOTE:** Check all possible problems and causes before disassembling the pump.

Problem	Cause	Solution
Pump fails to operate.	Restricted line or inadequate air supply; closed or clogged valves.	Clear line or increase air supply. Check that the valves are open.
	Obstructed fluid hose or gun; fluid hose ID is too small.	Open, clear*; use hose with larger ID.
	Dirty, worn, or damaged air motor parts.	Clean or repair air motor. See NXT Air Motor manual.**
	DataTrak models only: Extended solenoid pin is stopping the air valve from cycling.	Enable runaway protection (see <b>DataTrak Operation, Setup Mode</b> , page 25). Bleed air from motor. Press  on the DataTrak display to retract solenoid pin.
Pump operates, but output is low on both strokes.	Restricted line or inadequate air supply; closed or clogged valves.	Clear line or increase air supply. Check that the valves are open.
	Obstructed fluid hose or gun; fluid hose ID is too small.	Open, clear*; use hose with larger ID.
	Worn packings in displacement pump.	Replace packings. See Bellows Displacement Pump manual.**
Pump operates, but output is low on downstroke.	Held open or worn ball check valves or piston packings.	Clear valve; replace packings. See Bellows Displacement Pump manual.**
Erratic or accelerated pump speed.	Exhausted fluid supply.	Refill and prime.
	Held open or worn ball check valves or packings.	Clear valve, replace packings. See Bellows Displacement Pump manual.**
Fluid is visible in the overflow chamber.	Damaged bellows.	Replace. See Bellows Displacement Pump manual.**

\* To determine if the fluid hose or gun is obstructed, relieve the pressure. Disconnect the fluid hose and place a container at the pump fluid outlet to catch any fluid. Turn on the air just enough to start the pump. If the pump starts when the air is turned on, the obstruction is in the hose or gun.

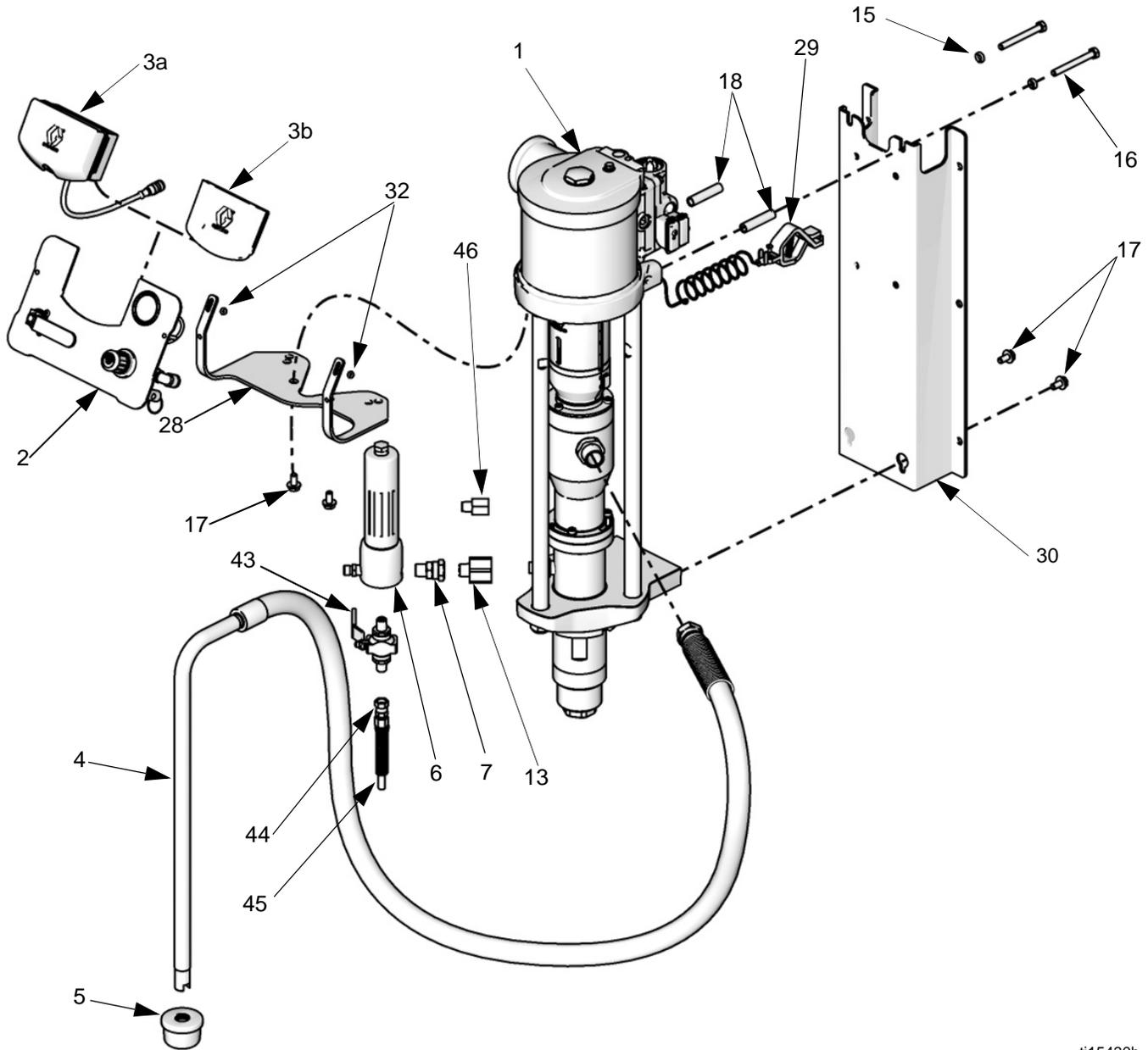
\*\*See **Related Manuals**, page 3, for manual numbers.

# Parts Cart Mount



ti15429a

# Wall Mount



ti15430b

**NOTE:**

- See page 41 for mounting kits for all packages.
- See pages 40-46 for repair parts and accessories.

Package	Parts List Page
G05Bxx	33
G12Bxx	33
G15Bxx	34
G23Bxx	35
G24Bxx	37
G25Bxx	38
G35Bxx	39

## G05Bxx Models

This list includes all possible parts for G05Bxx packages. See page 10 to check whether a part is included in your particular package.

Ref	Part	Description	Qty
1	B05FA0 B05FB0 B05FA1 B05FB1	Pump Assembly; <i>see Manual 312795</i> M04LN0 x LB150A M04LT0 x LB150A M04LN0 x LB150B M04LT0 x LB150B	1
2	24A586	PANEL, air control; <i>see page 43</i>	1
3a	24A575	DATATRAK, assembly; <i>see page 44</i>	1
3b	-----	INSERT, panel; included with Part 2	1
6	24A587	FILTER, fluid (if equipped); includes Part 7	1
7	235208	FITTING, union, 3/8-18 npsm x 3/8-18 npt; included with Part 6	1
13	121238	ADAPTER, outlet, 3/8 nptm x 3/4 nptf; packages with fluid filter	1
15†	100023	WASHER; included with Part 30	2
16†	107557	SCREW, M8 x 75; included with Part 30	2
17†◆	111799	SCREW, M8 x 16 mm; included with Part 28 and Part 30	8
18†	-----	SPACER; included with Part 30	2
21	-----	HOSE CLAMP; included with Part 3a	2
25	24E991	RING, lift, wall mount, not shown	1
28◆	-----	BRACKET, air control panel, wall mount	1
29	238909	GROUNDING WIRE assembly	1
30	24E880	PLATE, mounting; includes Parts 15-18, <i>see Wall Mounting Kit, page 41</i>	1
32‡◆	105332	LOCK NUT, M5 x 0.8	2
38	107204	O-RING, lift ring or plug	1
55‡	-----	MOUNTING WEDGE, left, air control panel, cart mount	1
56‡	-----	MOUNTING WEDGE, right, air control panel, cart mount	1
57‡	110873	SCREW, M5 x 0.8	2
58†	104541	LOCK NUT, M8	4
60	24E879	CART MOUNTING KIT; <i>see page 40</i>	1
61▲	290079	TAG, warning, grounding, not shown	1
62▲	15W718	LABEL, warning, not shown	1
63▲	15W719	LABEL, warning, not shown	1

----- Not sold separately.

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

† Included in Mounting Hardware Kit, page 41.

◆ Included in Air Control Mounting Kit-Wall, page 41.

‡ Included in Air Control Mounting Kit-Cart, page 41.

## G12Bxx Models

This list includes all possible parts for G12Bxx packages. See page 10 to check whether a part is included in your particular package.

Ref	Part	Description	Qty
1	B12DA0 B12DB0 B12DA1 B12DB1	Pump Assembly; <i>see Manual 312795</i> M07LN0 x LB100A M07LT0 x LB100A M07LN0 x LB100B M07LT0 x LB100B	1
2	24A583	PANEL, air control; <i>see page 43</i>	1
3a	24A576	DATATRAK, assembly; <i>see page 44</i>	1
3b	-----	INSERT, panel; included with Part 2	1
6	24A587	FILTER, fluid (if equipped); includes Part 7	1
7	235208	FITTING, union, 3/8-18 npsm x 3/8-18 npt; included with Part 6	1
15†	100023	WASHER; included with Part 30	2
16†	117080	SCREW, M8 x 60; included with Part 30	2
17†◆	111799	SCREW, M8 x 16 mm; included with Part 28 and Part 30	8
18†	-----	SPACER; included with Part 30	2
21	-----	HOSE CLAMP; included with Part 3a	2
25	24E991	RING, lift, wall mount, not shown	1
28◆	-----	BRACKET, air control panel, wall mount	1
29	238909	GROUNDING WIRE assembly	1
30	24E880	PLATE, mounting; includes Parts 15-18, <i>see Wall Mounting Kit, page 41</i>	1
32‡◆	105332	LOCK NUT, M5 x 0.8	2
38	107204	O-RING, lift ring or plug	1
55‡	-----	MOUNTING WEDGE, left, air control panel, cart mount	1
56‡	-----	MOUNTING WEDGE, right, air control panel, cart mount	1
57‡	110873	SCREW, M5 x 0.8	2
58	104541	LOCK NUT, M8	4
60	24E879	CART MOUNTING KIT; <i>see page 40</i>	1
61▲	290079	TAG, warning, grounding, not shown	1
62▲	15W718	LABEL, warning, not shown	1
63▲	15W719	LABEL, warning, not shown	1

----- Not sold separately.

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

† Included in Mounting Hardware Kit, page 41.

◆ Included in Air Control Mounting Kit-Wall, page 41.

‡ Included in Air Control Mounting Kit-Cart, page 41.

## G15Bxx Models

This list includes all possible parts for G15Bxx packages. See page 11 to check whether a part is included in your particular package.

Ref	Part	Description	Qty
1		Pump Assembly; <i>see Manual 312795</i>	1
	B15BA0	M04LN0 x LB050A	
	B15BB0	M04LT0 x LB050A	
	B15BA1	M04LN0 x LB050B	
	B15BB1	M04LT0 x LB050B	
	B15FA0	M12LN0 x LB150A	
	B15FB0	M12LT0 x LB150A	
	B15FA1	M12LN0 x LB150B	
	B15FB1	M12LT0 x LB150B	
2		PANEL, air control	1
	24A586	M04xxx motor, pump only; <i>see page 43</i>	
	24A583	M12xxx motor, pump only; <i>see page 43</i>	
	24A585	M04xxx motor, pump and gun; <i>see page 42</i>	
	24A581	M12xxx motor, pump and gun; <i>see page 42</i>	
3a		DATATRAK, assembly; <i>see page 44</i>	1
	24A575	M04xxx motor	
	24A576	M12xxx motor	
3b	-----	INSERT, panel; included with Part 2	1
4		HOSE, suction; includes part 5	1
	256420	LB050x displacement pump	
	256422	LB150x displacement pump	
5	-----	STRAINER; included with Part 4	1
6	24A587	FILTER, fluid; if equipped includes Part 7	1
7	235208	ADAPTER, fluid filter, 3/8-18 npsm x 3/8-18 npt; included with Part 6, connects fluid filter to outlet adapter (Part 13)	1
8	189018	SWIVEL, fluid hose (packages with gun); <i>see page 46</i>	1
9	241812	HOSE, fluid (packages with gun); <i>see page 46</i>	1
10	24C853	GUN, G15 carbide; <i>see page 46</i>	1
11	AAM413	TIP (packages with gun); <i>see page 46</i>	1
12	AAMxxx	TIP OPTION (packages with gun); <i>see page 46</i>	1
13	121238	ADAPTER, outlet, 3/8 nptm x 3/4 nptf; LB150x displacement pumps; connects outlet to hose adapter (Part 46) or fluid filter adapter (Part 7)	1
14	256390	AIR HOSE, gun, (all AA packages); <i>see page 46</i>	1
15†	100023	WASHER; included with Part 30; M04xxx motor	2
16†	107557	SCREW, M8 x 75; included with Part 30; M04xxx motor	2

Ref	Part	Description	Qty
17†◆	111799	SCREW, M8 x 16; included with Part 28 and Part 30	
		M04xxx motor	8
		M12xxx motor	10
18†	-----	SPACER; included with Part 30; M04xxx motor	2
21	-----	HOSE CLAMP; included with Part 3a	2
22	-----	CLIP, hose (all AA packages), <i>see page 46 for packages of 10</i>	7
25	24E991	RING, lift, wall mount, not shown	1
28◆	-----	BRACKET, air control panel, wall mount	1
29	238909	GROUNDING WIRE assembly	1
30		PLATE, mounting; <i>see Wall Mounting Kit, page 41</i>	1
	24E880	M04xxx motor, includes Parts 15-18	
	24E882	M12xxx motor, includes Part 17	
32†◆	105332	LOCK NUT, M5 x 0.8	2
38	107204	O-RING, lift ring or plug	1
43	256425	DRAIN VALVE (if equipped); includes Parts 44 and 45	1
44	-----	COUPLING, hose, drain; included with Part 43	1
45	-----	HOSE, drain; included with Part 43	1
46	512351	ADAPTER, hose, 1/4-18 npt x 3/8-18 npt; connects fluid hose to outlet adapter (Part 13)	1
55‡	-----	MOUNTING WEDGE, left, air control panel, cart mount	1
56‡	-----	MOUNTING WEDGE, right, air control panel, cart mount	1
57‡	110873	SCREW, M5 x 0.8	2
58†	104541	LOCK NUT, M8	4
60	24E879	CART MOUNTING KIT; <i>see page 40</i>	1
61▲	290079	TAG, warning, grounding, not shown	1
62▲	15W718	LABEL, warning, not shown	1
63▲	15W719	LABEL, warning, not shown	1

----- Not sold separately.

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

† Included in Mounting Hardware Kit, page 41.

◆ Included in Air Control Mounting Kit-Wall, page 41.

‡ Included in Air Control Mounting Kit-Cart, page 41.

## G23Bxx Models (Non-acid)

This list includes all possible parts for non-acid G23Bxx packages. See page 12 to check whether a part is included in your particular package.

Ref	Part	Description	Qty
1		Pump Assembly; <i>see Manual 312795</i>	1
	B23DA0	M12LN0 x LB100A	
	B23DB0	M12LT0 x LB100A	
	B23DA1	M12LN0 x LB100B	
	B23DB1	M12LT0 x LB100B	
2		PANEL, air control pump only; <i>see page 43</i>	1
	24A583		
	24A581	pump and gun; <i>see page 42</i>	
3a	24A576	DATATRAK, assembly; <i>see page 44</i>	1
3b	-----	INSERT, panel; included with Part 2	1
4	256423	HOSE, suction; includes Part 5	1
5	-----	STRAINER; included with Part 4	1
6	24A587	FILTER, fluid (if equipped); includes Part 7	1
7	235208	ADAPTER, fluid filter, 3/8-18 npsm x 3/8-18 npt; included with Part 6, connects fluid filter to outlet	1
8	189018	SWIVEL, fluid hose (packages with gun); <i>see page 46</i>	1
9	241812	HOSE, fluid (packages with gun); <i>see page 46</i>	1
10		GUN; <i>see page 46</i>	1
	24C855	G40	
	XTR501	XTR 5	
11	AAM413	TIP (packages with G40 gun); <i>see page 46</i>	1
12	AAMxxx	TIP OPTION (packages with G40 gun); <i>see page 46</i>	1
14	256390	AIR HOSE, gun, (packages with G40 gun); <i>see page 46</i>	1
17†◆	111799	SCREW, M8 x 16; included with Part 28 and Part 30	10
21	-----	HOSE CLAMP; included with Part 3a	2
22	-----	CLIP, hose (all AA packages), <i>see page 46 for packages of 10</i>	7
25	24E991	RING, lift, wall mount, not shown	1
28◆	-----	BRACKET, air control panel, wall mount	1
29	238909	GROUNDING WIRE assembly	1
30	24E880	PLATE, mounting; includes Part 17, <i>see Wall Mounting Kit, page 41</i>	1
32‡◆	105332	LOCK NUT, M5 x 0.8	2
38	107204	O-RING, lift ring or plug	1
43	256425	DRAIN VALVE (if equipped); includes Parts 44 and 45	1
44	-----	COUPLING, hose, drain; included with Part 43	1
45	-----	HOSE, drain; included with Part 43	1
46	512351	ADAPTER, fluid hose, 1/4-18 npt x 3/8-18 npt; connects fluid hose to outlet (packages with gun and no fluid filter)	1

Ref	Part	Description	Qty
57‡	110873	SCREW, M5 x 0.8	2
58†	104541	LOCK NUT, M8	4
61▲	290079	TAG, warning, grounding, not shown	1
62▲	15W718	LABEL, warning, not shown	1
63▲	15W719	LABEL, warning, not shown	1

----- *Not sold separately.*

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

† *Included in Mounting Hardware Kit, page 41.*

◆ *Included in Air Control Mounting Kit-Wall, page 41.*

‡ *Included in Air Control Mounting Kit-Cart, page 41.\**

## G23Bxx Models (Acid)

This list includes all possible parts for acid catalyst G23B37 and G23B38 packages. See page 12 to check whether a part is included in your particular package.

**NOTE:** G23B37 and G23B38 are available for wall mount only. These models can not be used for cart mounted spray packages.

Ref	Part	Description	Qty
1*	-----	Pump Assembly; <i>see Manual 312795</i> M12LN0 x LB100C	1
2	24A583	PANEL, air control pump only; <i>see page 43</i>	1
3a	24A576	DATATRAK, assembly; <i>see page 44</i>	1
3b	-----	INSERT, panel; included with Part 2	1
6	26A069	FILTER, fluid, 316 sst; includes Part 43	1
7	235208	ADAPTER, fluid filter, 3/8-18 npsm x 3/8-18 npt; 316 sst, connects fluid filter to outlet	1
17†◆	111799	SCREW, M8 x 16; included with Part 28 and Part 30	10
21	-----	HOSE CLAMP; included with Part 3a	2
25	24E991	RING, lift, wall mount, not shown; includes Part 38	1
28◆	-----	BRACKET, air control panel, wall mount	1
29	238909	GROUNDING WIRE assembly	1
30	24E880	PLATE, mounting; includes Part 17, <i>see</i> <i>Wall Mounting Kit, page 41</i>	1
32◆	105332	LOCK NUT, M5 x 0.8	2
38	107204	O-RING, lift ring or plug	1
43	26A078	BALL VALVE, 316 sst	1
61▲	290079	TAG, warning, grounding, not shown	1
62▲	15W718	LABEL, warning, not shown	1
63▲	15W719	LABEL, warning, not shown	1

----- *Not sold separately.*

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

† *Included in Mounting Hardware Kit, page 41.*

◆ *Included in Air Control Mounting Kit-Wall, page 41.*

\* *Use Acid Repair Kit 26A234 to repair acid catalyst pump assemblies. See page 45.*

‡ *See page 44 for selection of hoses.*

## G24Bxx Models

This list includes all possible parts for G24Bxx packages. See page 13 to check whether a part is included in your particular package.

Ref	Part	Description	Qty
1	B24FA0 B24FB0 B24FA1 B24FB1	Pump Assembly; <i>see Manual 312795</i> M18LN0 x LB150A M18LT0 x LB150A M18LN0 x LB150B M18LT0 x LB150B	1
2	24A583 24A581	PANEL, air control pump only; <i>see page 43</i> pump and gun; <i>see page 42</i>	1
3a	24A576	DATATRAK, assembly; <i>see page</i>	1
3b	-----	INSERT, panel; included with Part 2	1
4	256424	HOSE, suction; includes Part 5	1
5	-----	STRAINER; included with Part 4	1
6	24A587	FILTER, fluid (if equipped); includes Part 7	1
7	235208	ADAPTER, fluid filter, 3/8-18 npsm x 3/8-18 npt; included with Part 6, connects fluid filter to outlet adapter (Part 13)	1
8	189018	SWIVEL, fluid hose (packages with gun); <i>see page 46</i>	1
9	241812	HOSE, fluid (packages with gun); <i>see page 46</i>	1
10	24C855 XTR501	GUN; <i>see page 46</i> G40 XTR 5	1
11	AAM413	TIP (packages with G40 gun); <i>see page 46</i>	1
12	AAMxxx	TIP OPTION (packages with G40 gun); <i>see page 46</i>	1
13	121238	ADAPTER, outlet, 3/8 nptm x 3/4 nptf; connects outlet to hose adapter (Part 46) or fluid filter adapter (Part 7)	1
14	256390	AIR HOSE, gun, (packages with G40 gun); <i>see page 46</i>	1
17†◆	111799	SCREW, M8 x 16; included with Part 28 and Part 30	10
21	-----	HOSE CLAMP; included with Part 3a	2
22	-----	CLIP, hose (all AA packages), <i>see page 46 for packages of 10</i>	7
25	24E991	RING, lift, wall mount, not shown	1
28◆	-----	BRACKET, air control panel, wall mount	1
29	238909	GROUNDING WIRE assembly	1
30	24E880	PLATE, mounting; includes Part 17, <i>see Wall Mounting Kit, page 41</i>	1
32†◆	105332	LOCK NUT, M5 x 0.8	2
38	107204	O-RING, lift ring or plug	1
43	256425	DRAIN VALVE (if equipped); includes Parts 44 and 45	1
44	-----	COUPLING, hose, drain; included with Part 43	1
45	-----	HOSE, drain; included with Part 43	1

Ref	Part	Description	Qty
46	512351	ADAPTER, hose, 1/4-18 npt x 3/8-18 npt; connects fluid hose to outlet adapter (Part 13)	1
55‡	-----	MOUNTING WEDGE, left, air control panel, cart mount	1
56‡	-----	MOUNTING WEDGE, right, air control panel, cart mount	1
57‡	110873	SCREW, M5 x 0.8	2
58†	104541	LOCK NUT, M8	4
60	24E879	CART MOUNTING KIT; <i>see page 40</i>	1
61▲	290079	TAG, warning, grounding, not shown	1
62▲	15W718	LABEL, warning, not shown	1
63▲	15W719	LABEL, warning, not shown	1

----- Not sold separately.

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

† Included in Mounting Hardware Kit, page 41.

◆ Included in Air Control Mounting Kit-Wall, page 41.

‡ Included in Air Control Mounting Kit-Cart, page 41.

## G25Bxx Models

This list includes all possible parts for G25Bxx packages. See page 14 to check whether a part is included in your particular package.

Ref	Part	Description	Qty
1	B25BA0 B25BB0 B25BA1 B25BB1	Pump Assembly; <i>see Manual 312795</i> M07LN0 x LB050A M07LT0 x LB050A M07LN0 x LB050B M07LT0 x LB050B	1
2	24A583 24A581	PANEL, air control Pump only; <i>see page 43</i> Pump and gun; <i>see page 42</i>	1
3a	24A576	DATATRAK, assembly; <i>see page 44</i>	1
3b	-----	INSERT, panel; included with Part 2	1
4	256420	HOSE, suction; includes part 5	1
5	-----	STRAINER; included with Part 4	1
6	24A587	FILTER, fluid; if equipped includes Part 7	1
7	235208	ADAPTER, fluid filter, 3/8-18 npsm x 3/8-18 npt; included with Part 6, connects fluid filter to outlet adapter (Part 13)	1
8	189018	SWIVEL, fluid hose (packages with gun); <i>see page 46</i>	1
9	241812	HOSE, fluid (packages with gun); <i>see page 46</i>	1
10	24C855 XTR501	GUN; <i>see page 46</i> G40 XTR 5	1
11	AAM413	TIP (packages with gun); <i>see page 46</i>	1
12	AAMxxx	TIP OPTION (packages with gun); <i>see page 46</i>	1
14	256390	AIR HOSE, gun, (all AA packages); <i>see page 46</i>	1
15†	100023	WASHER; included with Part 30	2
16†	117080	SCREW, M8 x 60; included with Part 30	2
17†◆	111799	SCREW, M8 x 16; included with Part 28 and Part 30	8
18†	-----	SPACER; included with Part 30	2
21	-----	HOSE CLAMP; included with Part 3a	2
22	-----	CLIP, hose (all AA packages), <i>see page 46 for packages of 10</i>	7
25	24E991	RING, lift, wall mount, not shown	1
28◆	-----	BRACKET, air control panel, wall mount	1
29	238909	GROUNDING WIRE assembly	1
30	24E881	PLATE, mounting; includes Part 17, <i>see Wall Mounting Kit, page 41</i>	1
32†◆	105332	LOCK NUT, M5 x 0.8	2
38	107204	O-RING, lift ring or plug	1
43	256425	DRAIN VALVE (if equipped); includes Parts 44 and 45	1

Ref	Part	Description	Qty
44	-----	COUPLING, hose, drain; included with Part 43	1
45	-----	HOSE, drain; included with Part 43	1
46	512351	ADAPTER, fluid hose, 1/4-18 npt x 3/8-18 npt; connects fluid hose to outlet (packages with gun and no fluid filter)	1
55†	-----	MOUNTING WEDGE, left, air control panel, cart mount	1
56†	-----	MOUNTING WEDGE, right, air control panel, cart mount	1
57†	110873	SCREW, M5 x 0.8	2
58†	104541	LOCK NUT, M8	4
60	24E879	CART MOUNTING KIT; <i>see page 40</i>	1
61▲	290079	TAG, warning, grounding, not shown	1
62▲	15W718	LABEL, warning, not shown	1
63▲	15W719	LABEL, warning, not shown	1

----- Not sold separately.

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

† Included in Mounting Hardware Kit, page 41.

◆ Included in Air Control Mounting Kit-Wall, page 41.

‡ Included in Air Control Mounting Kit-Cart, page 41.

## G35Bxx Models

This list includes all possible parts for G35Bxx packages. See page 15 to check whether a part is included in your particular package.

Ref	Part	Description	Qty
1	B35DA0 B35DB0 B35DA1 B35DB1	Pump Assembly; <i>see Manual 312795</i> M18LN0 x LB100A M18LT0 x LB100A M18LN0 x LB100B M18LT0 x LB100B	1
2	24A583 24A581	PANEL, air control pump only; <i>see page 43</i> pump and gun; <i>see page 42</i>	1
3a	24A576	DATATRAK, assembly; <i>see page 44</i>	1
3b	-----	INSERT, panel; included with Part 2	1
4	256423	HOSE, suction; includes Part 5	1
5	-----	STRAINER; included with Part 4	1
6	24A587	FILTER, fluid (if equipped); includes Part 7	1
7	235208	ADAPTER, fluid filter, 3/8-18 npsm x 3/8-18 npt; included with Part 6, connects fluid filter to outlet	1
8	189018	SWIVEL, fluid hose (packages with gun); <i>see page 46</i>	1
9	24A446	HOSE, fluid (packages with gun); <i>see page 46</i>	1
10	24C855 XTR501	GUN; <i>see page 46</i> G40 XTR 5	1
11	AAM413	TIP (packages with G40 gun); <i>see page 46</i>	1
12	AAMxxx	TIP OPTION (packages with G40 gun); <i>see page 46</i>	1
14	256390	AIR HOSE, gun, (packages with G40 gun); <i>see page 46</i>	1
17†◆	111799	SCREW, M8 x 16, included with Part 28 and Part 30	10
21	-----	HOSE CLAMP; included with Part 3a	2
22	-----	CLIP, hose (all AA packages), <i>see page 46 for packages of 10</i>	7
25	24E991	RING, lift, wall mount, not shown	1
28◆	-----	BRACKET, air control panel, wall mount	1
29	238909	GROUNDING WIRE assembly	1
30	24E880	PLATE, mounting; includes Part 17, <i>see Wall Mounting Kit, page 41</i>	1
32‡◆	105332	LOCK NUT, M5 x 0.8	2
38	107204	O-RING, lift ring or plug	1
40	166846	ADAPTER, 1/4 npt x 1/4 npsm	1
42	239069	WHIP HOSE; <i>see page 46</i>	1
43	256425	DRAIN VALVE (if equipped); includes Parts 44 and 45	1
44	-----	COUPLING, hose, drain; included with Part 43	1
45	-----	HOSE, drain; included with Part 43	1

Ref	Part	Description	Qty
46	512351	ADAPTER, fluid hose, 1/4-18 npt x 3/8-18 npt; connects fluid hose to outlet (packages with gun and no fluid filter)	1
55‡	-----	MOUNTING WEDGE, left, air control panel, cart mount	1
56‡	-----	MOUNTING WEDGE, right, air control panel, cart mount	1
57‡	110873	SCREW, M5 x 0.8	2
58†	104541	LOCK NUT, M8	4
60	24E879	CART MOUNTING KIT; <i>see page 40</i>	1
61▲	290079	TAG, warning, grounding, not shown	1
62▲	15W718	LABEL, warning, not shown	1
63▲	15W719	LABEL, warning, not shown	1

----- Not sold separately.

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

† Included in Mounting Hardware Kit, page 41.

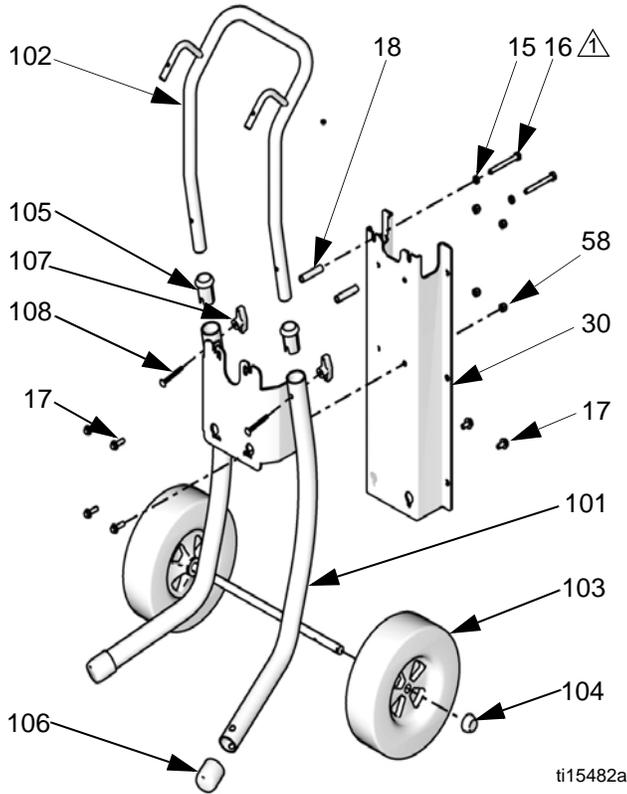
◆ Included in Air Control Mounting Kit-Wall, page 41.

‡ Included in Air Control Mounting Kit-Cart, page 41.

# Kits

## Cart Mounting Kit

Kit 24E879 Includes the cart, mounting plate (30), and hardware for all pump sizes. Use to mount a bare pump on a cart. See details in kit parts list to determine the hardware needed for your pump.



Ref.	Part	Description	Qty
101	----	CART, frame	1
102	----	HANDLE, cart	1
103	119451	WHEEL, semi-pneumatic	2
104	119452	CAP, hub	2
105	----	SLEEVE, cart handle	2
106	15C871	CAP, leg	2
107	115480	KNOB, t-handle	2
108	116630	SCREW, carriage	2
15	100023	WASHER	2
16	----	SCREW	2
	107557	M8 x 75, M04xxx motor	
	117080	M8 x 60, M07xxx motor	
17	111799	SCREW, M8 x 16	8
		M04xxx and M07xxx use only 6	
		M12xxx and M18xxx use all 8	
18	----	SPACER	2
		M04xxx motor- use longer	
		M07xxx motor - use shorter	
30	----	MOUNTING PLATE	1
58	104541	NUT, M8	4

## Cart Floor Mounting Kit

Kit 24E885 includes two spacers. Remove the caps on the cart legs. Insert spacers to keep the legs stable when bolting the cart to the floor. Bolts not included.

Apply high-strength thread locker approximately 0.25 in. on screw thread.

## Wall Mounting Kit

Includes mounting plate (30) and hardware (see **Mounting Hardware Kits**). Use to mount a bare pump on the wall.

Kit	Description	Air Motor on Package
24E880	Plate plus Mounting Hardware Kit 24E886	M04xxx
24E881	Plate plus Mounting Hardware Kit 24E887	M07xxx
24E882	Plate plus Mounting Hardware Kit 24E888	M12xxx or M18xxx

## Mounting Hardware Kits

Includes all hardware needed for wall or cart mounting, but does not include the plate. Use for replacement parts.

### Kit 24E886, packages with M04xxx motor

Ref	Part	Description	Qty.
15	100023	Washer	2
16	107557	Screw, M8 x 75	2
17	111799	Screw, M8 x 16	6
18	-----	Spacers	2
58	104541	LOCK NUT, M8	4

### Kit 24E887, packages with M07xxx motor

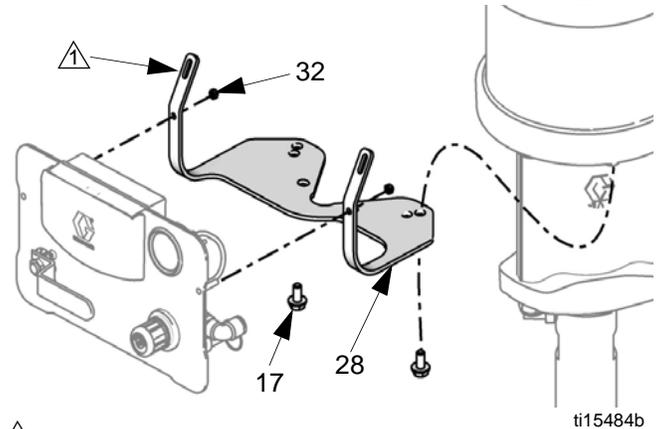
Ref	Part	Description	Qty.
15	100023	Washer	2
16	117080	Screw, M8 x 60	2
17	111799	Screw, M8 x 16	6
18	-----	Spacers	2
58	104541	LOCK NUT, M8	4

### Kit 24E888, packages with M12xxx or M18xxx motor

Ref	Part	Description	Qty.
17	111799	Screw, M8 x 16	8
58	104541	LOCK NUT, M8	4

## Air Control Mounting Kit-Wall

Kit 24E883 includes bracket (28), hex nuts (32), and screws (17). Use if adding air controls to a wall mount package, or for replacement parts.

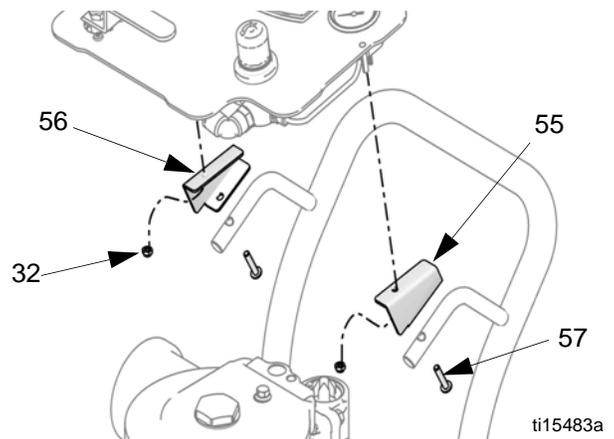


▲ Use alternate mounting holes to mount the air controls at an angle on the bracket.

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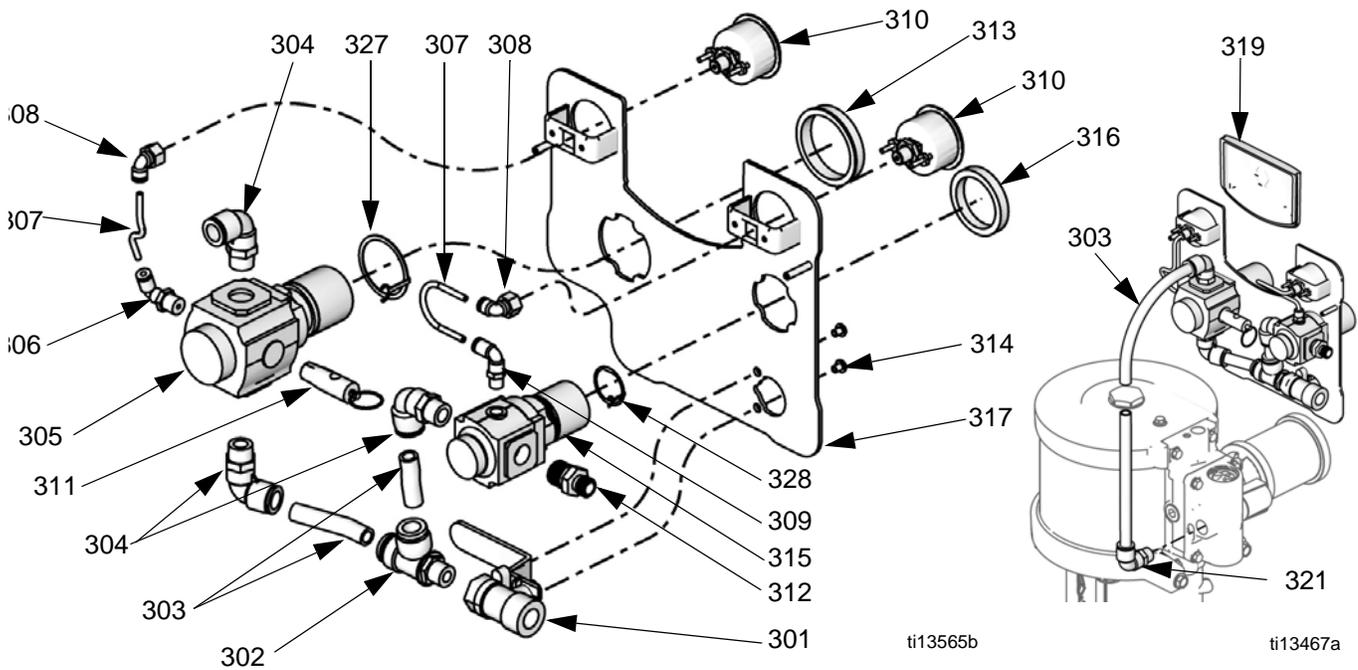
## Air Control Mounting Kit-Cart

Kit 24E884 includes right and left mounting wedges (55 and 56), hex nuts (32) and screws (37). Use if adding air controls to a cart mount package, or for replacement parts.



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# Pump and Gun Control Panel Kits



## M07xxx, M12xxx, and M18xxx air motors

Kits 24A581

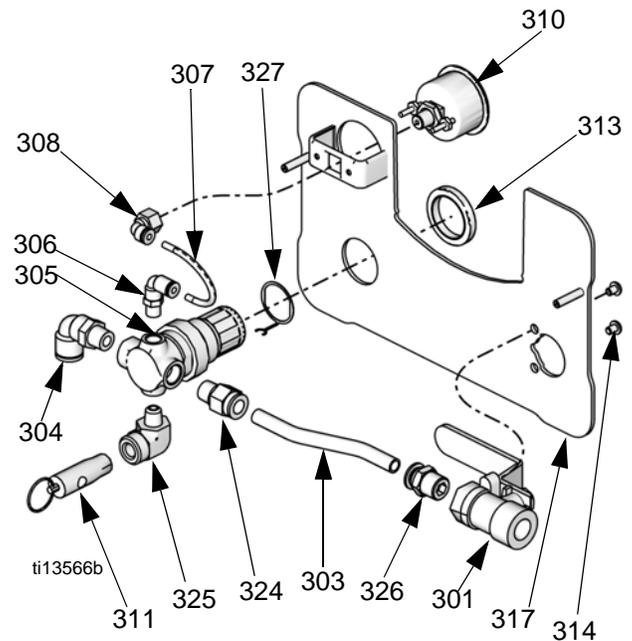
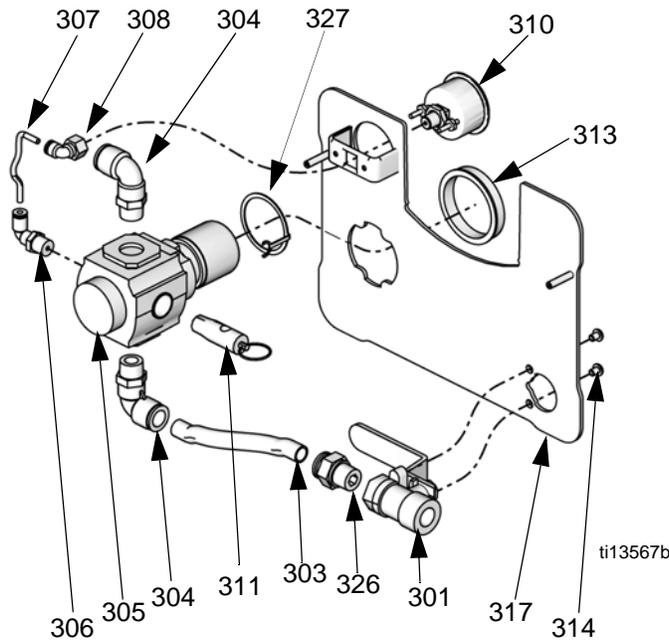
Ref.	Part	Description	Qty.
301	114362	VALVE, ball	1
302	15T643	SWIVEL, tee, 3/8 npt(m) x 1/2T	1
303	-----	TUBE, 1/2 OD, cut to fit, order Tubing Kit 24D496	1.3 ft.
304	121212	ELBOW, swivel, 1/2T x 3/8 npt(m)	3
305	15T536	REGULATOR, air, pump, 3/8 npt	1
306	-----	ELBOW, swivel, 5/32 T x 1/4 npt	1
307	-----	TUBE, black, cut to fit, order Tubing Kit 24D496	4 in.
308	-----	SWIVEL, 90°, 5/32T x 1/8 npt(f)	2
309	-----	ELBOW, swivel, 5/32T x 1/8 npt	1
310	15T500	GAUGE, pressure	2
311	113498	VALVE, pressure relief	1
312	164672	ADAPTER	1
313	15T538	NUT, regulator	1
314	114381	SCREW, cap, button head	2
315	15T539	REGULATOR, air, gun, 3/8 npt	1
316	116514	NUT, regulator	1
317	-----	PANEL	1
318	-----	LABEL, panel (not shown)	1
319	-----	INSERT	1
320	105332	NUT, lock (not shown)	2
321	-----	ELBOW, 1/2T x 1/2 npt	1
322	-----	COVER, lens, 12 sticker sheet (not shown), order Kit 24A540 for 5 sheets	1
327	24P814	RING, grounding	1
328	24P813	RING, grounding	1

## M04xxx air motors

Kit 24A585

Ref.	Part	Description	Qty.
301	114362	VALVE, ball	1
302	-----	SWIVEL, tee	1
303	-----	TUBE, 3/8 OD, cut to fit, order Tubing Kit 24D496	1.3 ft.
304	121141	ELBOW, swivel, 3/8T x 1/4 npt(m)	3
305	15T499	REGULATOR, air, pump, 1/4 npt	1
306	15T866	ELBOW, swivel, 5/32T x 1/8 npt	1
307	-----	TUBE, black, cut to fit, order Tubing Kit 24D496	4 in.
308	15T498	SWIVEL, 90°, 5/32T x 1/8 npt(f)	2
309	15T866	ELBOW, swivel, 5/32T x 1/8 npt	1
310	15T500	GAUGE, pressure	2
311	113498	VALVE, safety	1
312	162453	ADAPTER, 1/4 nps(m) x 1/4 npt	1
313	115244	NUT, regulator	2
314	114381	SCREW, cap, button head	2
315	15T499	REGULATOR, air, gun, 1/4 npt	1
316	115244	NUT, regulator	1
317	-----	PANEL	1
318	-----	LABEL, panel (not shown)	1
319	-----	INSERT	1
320	-----	NUT, lock (not shown)	2
321	121141	ELBOW, 3/8T x 1/4 npt(m)	1
322	-----	COVER, lens, 12 sticker sheet (not shown), order Kit 24A540 for 5 sheets	1
323	-----	ELBOW, 1/4 npt(f) x 1/8 npt(m)	1
327	24P812	RING, grounding	1
328	24P812	RING, grounding	1

# Pump Only Control Panel Kits



## M07xxx, M12xxx, and M18xxx air motors

Kit 24A583

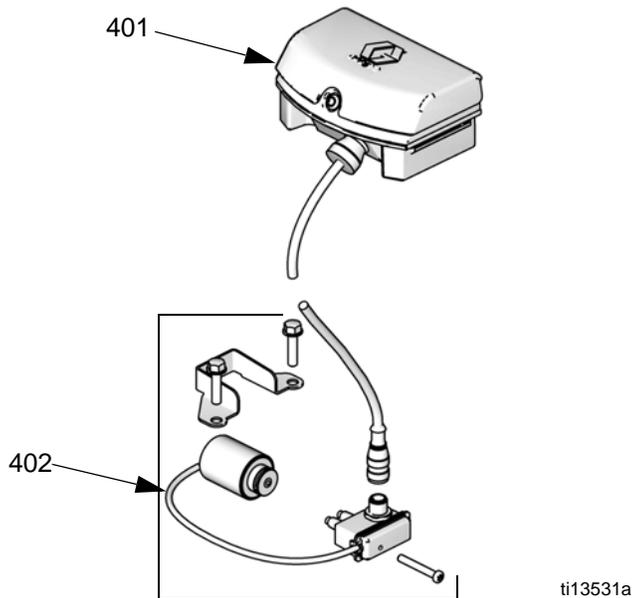
Ref. Part	Description	Qty.
301	114362 VALVE, ball	1
303	----- TUBE, 1/2 OD, cut to fit, order Tubing Kit 24D496	1.5 ft.
304	121212 ELBOW, swivel, 1/2T x 3/8 npt(m)	2
305	15T536 REGULATOR, air, 3/8 npt	1
306	----- ELBOW, swivel, 5/32 T x 1/4 npt	1
307	----- TUBE, black, cut to fit, order Tubing Kit 24D496	5 in.
308	----- SWIVEL, 90°, 5/32T x 1/8 npt(f)	1
310	15T500 GAUGE, pressure	1
311	113498 VALVE, pressure relief	1
313	15T538 NUT, regulator	1
314	114381 SCREW, cap, button head	2
317	----- PANEL	1
318	----- LABEL, panel (not shown)	1
319	----- INSERT (see inset illustration on page 42)	1
320	105332 NUT, lock (not shown)	2
321	----- ELBOW, 1/2T x 1/2 npt (see inset illustration on page 42)	1
322	----- COVER, lens, 12 sticker sheet (not shown), order Kit 24A540 for 5 sheets	1
326	----- FITTING, straight, 1/2T x 3/8 npt(m)	1
327	24P814 RING, grounding	1

## M04xxx air motors

Kit 24A586

Ref. Part	Description	Qty.
301	114362 VALVE, ball	1
303	----- TUBE, 3/8 OD, cut to fit, order Tubing Kit 24D496	1.3 ft.
304	121141 ELBOW, swivel, 3/8T x 1/4 npt(m)	1
305	----- REGULATOR, air, 1/4 npt	1
306	----- ELBOW, swivel, 5/32T x 1/8 npt	1
307	----- TUBE, black, cut to fit, order Tubing Kit 24D496	4 in.
308	----- SWIVEL, 90°, 5/32T x 1/8 npt(f)	1
309	----- ELBOW, swivel, 5/32T x 1/8 npt	1
310	15T500 GAUGE, pressure	1
311	113498 VALVE, pressure relief	1
313	115244 NUT, regulator	1
314	114381 SCREW, cap, button head	2
317	----- PANEL	1
318	----- LABEL, panel (not shown)	1
319	----- INSERT (see inset illustration on page 42)	1
320	105332 NUT, lock (not shown)	2
321	121141 ELBOW, swivel, 3/8T x 1/4 npt(m) (see inset illustration on page 42)	1
322	----- COVER, lens, 12 sticker sheet (not shown), order Kit 24A540 for 5 sheets	1
323	----- ELBOW, 1/4 npt(f) x 1/8 npt(m)	1
324	----- FITTING, straight, 3/8T x 1/4 npt(m)	1
326	----- FITTING, straight, 3/8T x 3/8 npt(m)	1
327	24P812 RING, grounding	1

## DataTrak Kits



Ref. No.	Part No.	Description	Qty.
401	24B563	DATATRAK, module (includes Part 403)	1
402	24B565 24B566	SOLENOID/REED SWITCH, kit M04xxx air motors M07xxx-M18xxx air motors	1
403	-----	CLAMP, hose (not shown) Order kit 24A548 for package of 10	2
404▲	15V262	LABEL, warning (not shown)	1

----- Not sold separately.

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

## DataTrak Replacement Parts Kits

Part No.	Description	Fits Air Motor Models
24B563	DataTrak Module	All
24B565	Solenoid/Reed Switch Assembly	M04LTO
24B566	Solenoid/Reed Switch Assembly	M07LTO - M18LTO
24B564	Reed Switch Assembly	MxxLNO

## DataTrak Conversion Kits

Part	Description	Fits NXT Air Motor Models	Air Valve Replacement Kit Required*
24A575	DataTrak with Run-away Protection Kit	M04LN0	24A353
		M04LTO	-----
24A576	DataTrak with Run-away Protection Kit	M07LN0-M18LN0	24A354
		M07LTO-M18LTO	-----
24A592	DataTrak with Cycle Count Only Kit	MxxLNO	-----

\* Purchase and install the Air Valve Replacement Kit listed to make your MxxLNO air motor compatible with DataTrak with Runaway Protection.

## Suction Hose Kits

Kit	Size	Parts Included	Fits Packages
<b>5-Gallon</b>			
256420	1/2 in.	Suction hose (4), reducing bushing (as needed) and strainer (5)	G15Bxx and G25Bxx (50cc)
256423	3/4 in.		G23Bxx and G35Bxx (100cc)
256424	1 in.		G15Bxx and G24Bxx (150cc)
<b>55-Gallon</b>			
24A954	3/4 in.	Suction hose, bung adapter, and strainer	G15Bxx, G23Bxx, G25Bxx, and G35Bxx (50cc and 100cc)
24B598	1 in.		G15Bxx and G24Bxx (150cc)
<b>PTFE*</b>			
24B424	3/4 in.	Suction hose, straight swivel, and strainer	G15Bxx, G23Bxx, G25Bxx, and G35Bxx (50cc and 100cc)
24B425	1 in.		G15Bxx and G24Bxx (150cc)

\* For pumping acid materials that are compatible with PTFE.

## **Drain Valve Kit 256425**

Includes drain valve (43), coupling (44), and hose (45).

## **Overflow Chamber Kit 24E298**

Includes overflow cup, with seals and necessary hardware.

## **Reinforced PTFE V-Packing Kits and PTFE Bellows Kits**

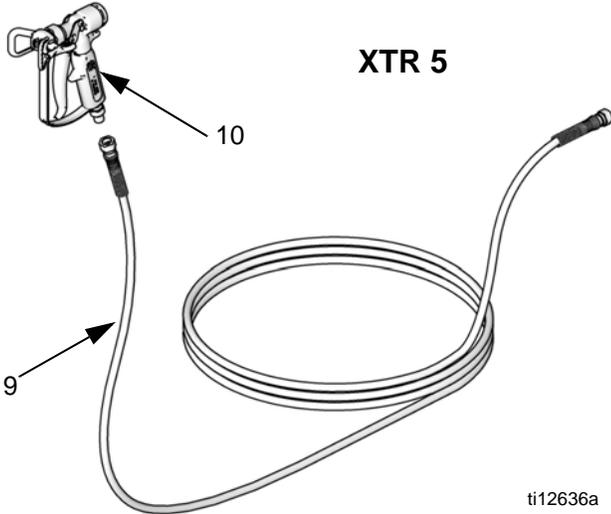
**NOTE:** See manual 312793 for information related to optional kits with reinforced PTFE seals and optional kits with PTFE bellows. These kits are intended for use with materials that cause chemical compatibility concerns with UHMWPE, such as acid catalyst materials.

## **Acid Repair Kit 26A234**

Includes parts and o-rings to repair or rebuild acid catalyst bellows displacement pump. Use for acid models G23B37 and G23B38.

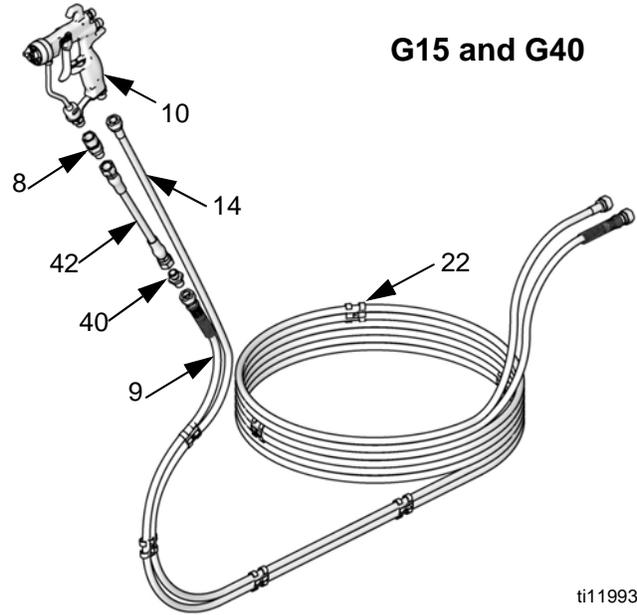
## Guns and Hoses

To find the correct parts for your model, locate the gun you have. The correct hoses and related parts are listed in the table below each gun.



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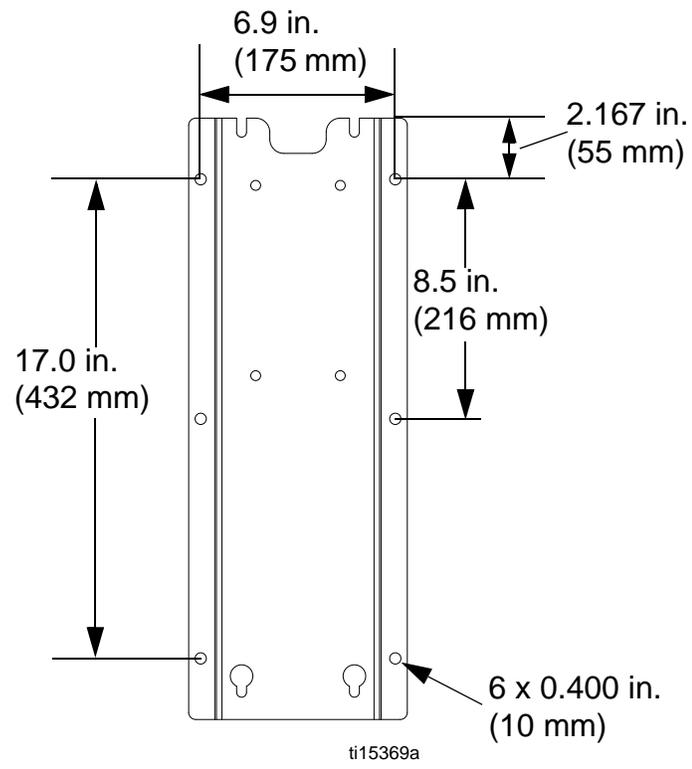
Ref.	Part	Description	Qty.
9		HOSE, fluid	1
	241812	G05xxx-G24xxx, 25 ft (7.6 m), 3300 psi (22.7 MPa, 227 bar) maximum working pressure	
	24A446	G35xxx, 23 ft (7 m), 4100 psi (28.3 MPa, 283 bar) maximum working pressure	
10	XTR501	GUN	1
40	166846	ADAPTER, for whip hose	1
42	239069	HOSE, whip (G35xxx packages only); see G40 illustration at right), 2 ft (0.6m); 4100 psi (28.3 MPa, 283 bar) maximum working pressure	1



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Ref.	Part	Description	Qty.
8	189018	SWIVEL, fluid hose	1
9		HOSE, fluid	1
	241812	G05xxx-G24xxx, 25 ft (7.6 m), 3300 psi (22.7 MPa, 227 bar) maximum working pressure	
	24A446	G35xxx, 23 ft (7 m); 4100 psi (28.3 MPa, 283 bar) maximum working pressure	
10	24C855	GUN, G40	1
	24C853	GUN, G15	1
11	AAM413	TIP	1
12	AAMxxx	TIP, option, see gun manual	1
14	256390	HOSE, air, 27 ft (8.2 m); 100 psi (0.7 MPa, 7 bar) maximum working pressure	1
22	24A588	CLIP, hose; package of 10	1
40	166846	ADAPTER, for whip hose	1
42	239069	HOSE, whip (G35xxx packages only); 2 ft (0.6m); 4100 psi (28.3 MPa, 283 bar) maximum working pressure	1

# Mounting Plate Dimensions



# Technical Data

Maximum fluid working pressure . . . . .	See <b>Models</b> tables on pages 10-14.
Maximum fluid inlet pressure . . . . .	15 psi (0.1 MPa, 1.0 bar)
Maximum pump air inlet pressure . . . . .	100 psi (0.7 MPa, 7.0 bar)
Minimum air inlet pressure . . . . .	10 psi (0.07 MPa, 0.7 bar)
Maximum gun air inlet pressure . . . . .	100 psi (0.7 MPa, 7.0 bar)
Ratio . . . . .	See <b>Models</b> tables on pages 10-14.
Maximum fluid temperature . . . . .	120°F (49°C)
Ambient temperature range . . . . .	35°–120°F (2°–49°C)
Weight . . . . .	See <b>Models</b> tables on pages 10-14.
Sound data . . . . .	See Technical Data in NXT Air Motor manual.*
Wetted parts . . . . .	PEEK, PTFE, stainless steel, tungsten carbide, UHMWPE
Wetted materials on acid models (G23B37 and G23B38). . . . .	316 SST, 17-4 SST, Peek, PTFE, UHMWPE

\* See **Related Manuals**, page 3, for manual number.



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