Instructions/Parts

Merkur® Non-Heated Spray Packages

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EN

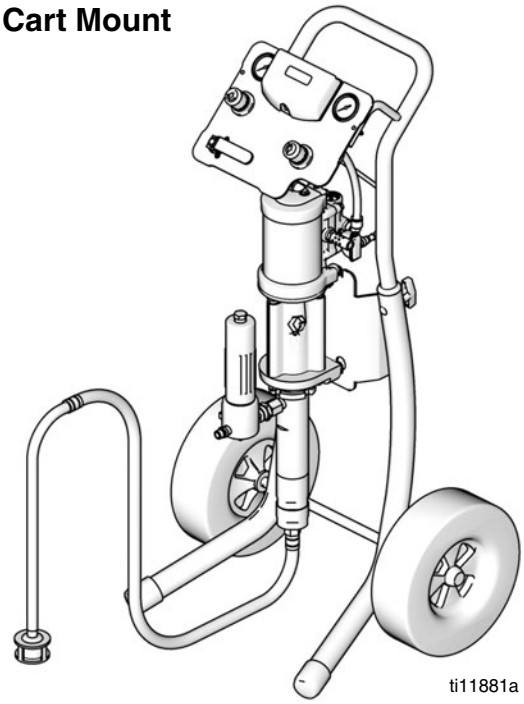
For high-performance finishing and coating applications in hazardous or non-hazardous locations. For professional use only.

Important Safety Instructions
Read all warnings and instructions in this manual.
Save these instructions.

See the charts beginning on page 5 for model information, including maximum air inlet pressures and maximum fluid working pressures.

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

Cart Mount



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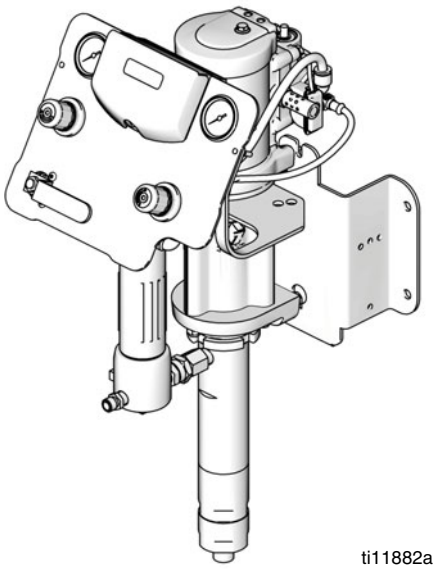
Wall Mount



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PROVEN QUALITY. LEADING TECHNOLOGY.

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Related Manuals

Manual	Description
312792	Merkur Displacement Pump
312794	Merkur Pump Assembly
312796	NXT™ Air Motor
312798	Merkur Electrostatic Packages
313255	Merkur Heated Packages
3A0149	AA Series Spray Gun (G15, G40, and G40 with RAC)
312145	XTR™5 and XTR™7 Airless Spray Gun
307273	Fluid Outlet Filter

DataTrak™ includes agency approvals listed below.

FM C US APPROVED

Conforms to
FM std 3600 & 3610
for use in Class I Div 1
Group D
T3C Hazardous locations

CE 0359

Ex II 1 G

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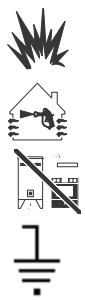
Nemko 06ATEX1124

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.

⚠WARNING



FIRE AND EXPLOSION HAZARD

Flammable fumes, such as solvent and paint fumes, in **work area** can ignite or explode. To help prevent fire and explosion:

- 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 arc).
- Keep work area free of debris, including solvent, rags and gasoline.
- Do not plug or unplug power cords, or turn power or light switches on or off when flammable fumes are present.
- Ground all equipment in the work area. See **Grounding** instructions.
- Use only grounded hoses.
- Hold gun firmly to side of grounded pail when triggering into pail.
- If there is static sparking or you feel a shock, **stop operation immediately.** Do not use equipment until you identify and correct the problem.
- Keep a working fire extinguisher in the work area.

SKIN INJECTION HAZARD

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

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

WARNING

PRESSURIZED EQUIPMENT HAZARD

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

- Follow **Pressure Relief Procedure** in this manual, when you stop spraying and before cleaning, checking, or servicing equipment.
- Tighten all fluid connections before operating the equipment.
- Check hoses, tubes, and couplings daily. Replace worn or damaged parts immediately.

EQUIPMENT MISUSE HAZARD

Misuse can cause death or serious injury.

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

MOVING PARTS HAZARD

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

- Keep clear of moving parts.
- Do not operate equipment with protective guards or covers removed.
- Pressurized equipment can start without warning. Before checking, moving, or servicing equipment, follow the **Pressure Relief Procedure** in this manual. Disconnect power or air supply.

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 MSDS's to know the specific hazards of the fluids you are using.
- Store hazardous fluid in approved containers, and dispose of it according to applicable guidelines.

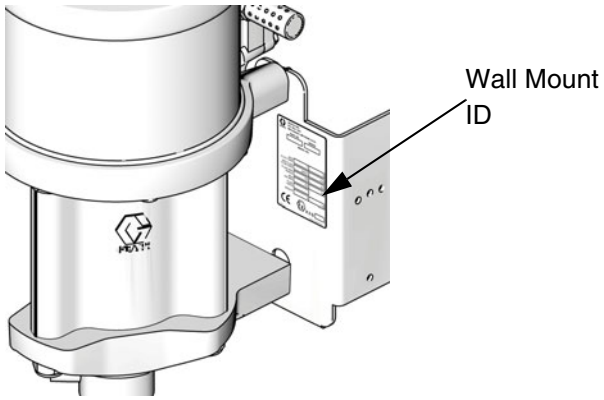
PERSONAL PROTECTIVE EQUIPMENT

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

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

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 **G30C26** represents a Merkur package **(G)**, with a 30:1 ratio pump **(30)**, cart mounting **(C)**, and the components shown for **(26)** in the table on page 10.



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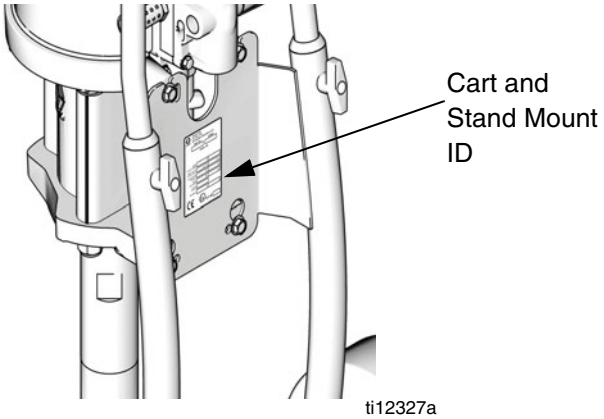

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G	30		C		26
First Digit	**Second and Third Digits (Ratio)**		**Fourth Digit (Mounting Type)**		**Fifth and Sixth Digit (Components Included)**
G (Merkur Package)	**10**	10:1	**C**	Cart	See Tables, pages 6 to 14
	15	15:1	**T**	Stand	
	18	18:1	**W**	Wall	
	23	23:1			
	24	24:1			
	28	28:1			
	30	30:1			
	36	36:1			
	45	45:1			
	48	48:1			

Merkur 10:1 Packages (G10Cxx and G10Wxx)

Maximum Inlet Air Pressure: 100 psi (0.7 MPa, 7 bar)
Maximum Fluid Working Pressure: 1000 psi (6.9 MPa, 69 bar)

Model		Pump Assembly	Gun	Air Controls (pump and gun)	Hoses		Accessories			DataTrak	Maximum Fluid Flow Rate gpm (lpm)
Wall Mount	Cart Mount				Gun Fluid Hose	Gun Air Hose	Siphon Kit	Fluid Filter	Hopper		
G10W09	-----	W10CAS	None								1.2 (4.5)
G10W01	G10C01	W10CAS	None	✔							
G10W03	G10C03	W10CAS	None	✔			✔				
-----	G10C05	W10CAS	None	✔	✔	✔	✔				
G10W05	G10C07	W10CAS	G15 Carbide	✔	✔	✔	✔				
G10W06	G10C08	W10CBS	G15 Carbide	✔	✔	✔	✔			✔	
G10W07	G10C09	W10CAS	G15 Carbide	✔	✔	✔	✔	✔			
G10W08	G10C10	W10CBS	G15 Carbide	✔	✔	✔	✔	✔		✔	
-----	G10C11	W10CAS	G15 Carbide	✔	✔	✔			✔		
-----	G10C13	W10CAS	G15 Carbide	✔	✔	✔		✔	✔		

Merkur 15:1 Packages (G15Wxx, G15Cxx, and G15Txx)

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	Gun	Air Controls		Hoses		Accessories			Data Trak	Maximum Fluid Flow Rate gpm (lpm)
Wall Mount	Cart Mount	Stand Mount			Pump Only	Pump and Gun	Gun Fluid Hose	Gun Air Hose	Siphon Kit	Fluid Filter	Hopper		
G15W09	-----	-----	W15AAS	None									0.40 (1.5)
G15W01	G15C01	G15T01	W15AAS	None		✔							
G15W03	G15C03	-----	W15AAS	None		✔			✔				
-----	G15C05		W15AAS	None		✔	✔	✔	✔				
G15W05	G15C07	G15T03	W15AAS	G15 Carbide		✔	✔	✔	✔				
G15W06	G15C08	G15T04	W15AAS	G15 Carbide		✔	✔	✔	✔			✔*	
G15W07	G15C09	-----	W15AAS	G15 Carbide		✔	✔	✔	✔	✔			
G15W08	G15C10	-----	W15AAS	G15 Carbide		✔	✔	✔	✔	✔		✔*	
-----	G15C11	G15T05	W15AAS	G15 Carbide		✔	✔	✔			✔		
-----	G15C12	-----	W15AAS	G15 Carbide		✔	✔	✔			✔	✔*	
-----	G15C13	-----	W15AAS	G15 Carbide		✔	✔	✔		✔	✔		
-----	G15C14	-----	W15AAS	G15 Carbide		✔	✔	✔		✔	✔	✔*	
G15W19	-----	-----	W15BAS	None									0.8 (3.0)
G15W21	G15C21	-----	W15BAS	None		✔							
G15W23	G15C23	-----	W15BAS	None		✔			✔				
-----	G15C25	G15T11	W15BAS	None		✔	✔	✔	✔				
-----	-----	G15T12	W15BBS	None		✔	✔	✔	✔			✔	
G15W25	G15C27	G15T13	W15BAS	G15 Carbide		✔	✔	✔	✔				
G15W26	G15C28	G15T14	W15BBS	G15 Carbide		✔	✔	✔	✔			✔	
G15W27	G15C29	-----	W15BAS	G15 Carbide		✔	✔	✔	✔	✔			
G15W28	G15C30	-----	W15BBS	G15 Carbide		✔	✔	✔	✔	✔		✔	
-----	G15C31	G15T15	W15BAS	G15 Carbide		✔	✔	✔			✔		
-----	G15C33	-----	W15BAS	G15 Carbide		✔	✔	✔		✔	✔		
G15W51	G15C75	-----	W15FAS	None									2.4 (9.0)
G15W52	-----	-----	W15FBS	None								✔	
-----	G15C77	-----	W15FAS	None	✔								
-----	G15C78	-----	W15FBS	None	✔							✔	
G15W53	G15C79	-----	W15FAS	None	✔				✔	✔			
G15W54	G15C80	-----	W15FBS	None	✔				✔	✔		✔	
-----	G15C81	-----	W15FAS	None		✔			✔				
G15W55	G15C83	-----	W15FAS	G15 Carbide		✔	✔	✔	✔	✔			
G15W56	G15C84	-----	W15FBS	G15 Carbide		✔	✔	✔	✔	✔		✔	

** DataTrak with cycle counter only, no runaway solenoid.*

Merkur 18:1 Packages (G18Wxx and G18Cxx)

Maximum Inlet Air Pressure: 100 psi (0.7 MPa, 7 bar)
Maximum Fluid Working Pressure: 1800 psi (12.4 MPa, 124 bar)

Model				Air Controls		Hoses			Accessories			
Wall Mount	Cart Mount	Pump Assembly	Gun	Pump only	Pump and Gun	Gun Fluid Hose	Gun Air Hose	Gun Fluid Whip Hose	Siphon Kit	Fluid Filter	DataTrak	Maximum Fluid Flow Rate gpm (lpm)
G18W01	-----	W18EAS	None									2.0 (7.5)
G18W03	-----	W18EAS	None	✔								
G18W04	-----	W18EBS	None	✔							✔	
G18W05	G18C01	W18EAS	None	✔					✔	✔		
G18W06	G18C02	W18EBS	None	✔					✔	✔	✔	
-----	G18C03	W18EAS	None		✔				✔			
G18W07	G18C05	W18EAS	G40		✔	✔	✔		✔	✔		
G18W08	G18C06	W18EBS	G40		✔	✔	✔		✔	✔	✔	
G18W09	G18C07	W18EAS	G40 RAC		✔	✔	✔		✔	✔		
G18W10	G18C08	W18EBS	G40 RAC		✔	✔	✔		✔	✔	✔	

Merkur 23:1 Packages (G23Wxx and G23Cxx)

Maximum Inlet Air Pressure: 100 psi (0.7 MPa, 7 bar)
Maximum Fluid Working Pressure: 2300 psi (15.9 MPa, 159 bar)

Model				Air Controls		Hoses		Accessories				Maximum Fluid Flow Rate gpm (lpm)
Wall Mount	Cart Mount	Pump Assembly	Gun	Pump only	Pump and Gun	Gun Fluid Hose	Gun Air Hose	Siphon Kit	Fluid Filter	Hopper	DataTrak	
G23W01	-----	W23DAS	None									1.6 (6.0)
G23W03	-----	W23DAS	None	✔								
G23W04	-----	W23DBS	None	✔							✔	
-----	G23C01	W23DAS	None	✔				✔				
-----	G23C02	W23DBS	None	✔				✔			✔	
G23W05	-----	W23DAS	None	✔				✔	✔			
G23W06	-----	W23DBS	None	✔				✔	✔		✔	
G23W07	G23C03	W23DAS	XTR5	✔		✔		✔	✔			
G23W08	G23C04	W23DBS	XTR5	✔		✔		✔	✔		✔	
-----	G23C05	W23DAS	None		✔			✔				
-----	G23C07	W23DAS	G40		✔	✔	✔			✔		
G23W09	G23C09	W23DAS	G40		✔	✔	✔	✔	✔			
-----	G23C11	W23DAS	G40		✔	✔	✔		✔	✔		
G23W10	G23C12	W23DBS	G40		✔	✔	✔	✔	✔		✔	
G23W11	G23C13	W23DAS	G40 RAC		✔	✔	✔	✔	✔			
G23W12	G23C14	W23DBS	G40 RAC		✔	✔	✔	✔	✔		✔	

Merkur 24:1 Packages (G24Wxx and G24Cxx)

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	Gun	Air Controls		Hoses		Options			Maximum Fluid Flow Rate gpm (lpm)
Wall Mount	Cart Mount			Pump Only	Pump and Gun	Gun Fluid Hose	Gun Air Hose	Siphon Kit	Fluid Filter	DataTrak	
G24W01	**-----**	W24FAS									2.4 (9.0)
G24W02	**-----**	W24FBS		✔						✔	
G24W03	**G24C01**	W24FAS	None	✔				✔	✔		
G24W04	**G24C02**	W24FBS	None	✔				✔	✔	✔	
G24W05	**G24C03**	W24FAS	XTR5	✔		✔		✔	✔		
G24W06	**G24C04**	W24FBS	XTR5	✔		✔		✔	✔	✔	
G24W07	**G24C09**	W24FAS	G40		✔	✔	✔	✔	✔		
G24W08	**G24C10**	W24FBS	G40		✔	✔	✔	✔	✔	✔	
G24W09	**G24C11**	W24FAS	G40RAC		✔	✔	✔	✔	✔		
G24W10	**G24C12**	W24FBS	G40RAC		✔	✔	✔	✔	✔	✔	

Merkur 28:1 Packages (G28Wxx and G28Cxx)

Maximum Inlet Air Pressure: 100 psi (0.7 MPa, 7 bar)
Maximum Fluid Working Pressure: 2800 psi (19.3 MPa, 193 bar)

Model		Pump Assembly	Gun	Air Controls		Hoses		Accessories		DataTrak	Maximum Fluid Flow Rate gpm (lpm)
Wall Mount	Cart Mount			Pump Only	Pump and Gun	Gun Fluid Hose	Gun Air Hose	Siphon Kit	Fluid Filter		
G28W01	**-----**	W28EAS	None								2.0 (7.5)
G28W02	**-----**	W28EBS	None	✔						✔	
G28W03	**G28C01**	W28EAS	None	✔				✔	✔		
G28W04	**G28C02**	W28EBS	None	✔				✔	✔	✔	
G28W05	**G28C03**	W28EAS	XTR5	✔		✔		✔	✔		
G28W06	**G28C04**	W28EBS	XTR5	✔		✔		✔	✔	✔	
G28W11	**G28C09**	W28EAS	G40		✔	✔	✔	✔	✔		
G28W12	**G28C10**	W28EBS	G40		✔	✔	✔	✔	✔	✔	
G28W13	**G28C11**	W28EAS	G40RAC		✔	✔	✔	✔	✔		
G28W14	**G28C12**	W28EBS	G40RAC		✔	✔	✔	✔	✔	✔	

Merkur 30:1 Packages (G30Wxx, G30Cxx, and G30Txx)

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

Maximum Fluid Working Pressure: 3000 psi (20.7 MPa, 207 bar)

Model			Pump Assembly	Gun	Air Controls		Hoses		Accessories				DataTrak	Maximum Fluid Flow Rate gpm (lpm)
Wall Mount	Cart Mount	Stand Mount			Pump Only	Pump and Gun	Gun Fluid Hose	Gun Air Hose	Siphon Kit	Fluid Filter	Hopper	Drain Valve		
G30W19	-----		W30AAS											
G30W01	G30C01	-----	W30AAS	None	✔									
G30W03	G30C03	-----	W30AAS	None	✔				✔					
G30W05	G30C05	-----	W30AAS	None	✔				✔	✔				
-----	G30C07	-----	W30AAS	XTR5	✔		✔		✔					
-----	G30C08	-----	W30ABS	XTR5	✔		✔		✔				✔	
G30W07	G30C09	-----	W30AAS	XTR5	✔		✔		✔	✔				
G30W08	G30C10	-----	W30ABS	XTR5	✔		✔		✔	✔			✔	
-----	G30C11	-----	W30AAS	XTR5	✔		✔				✔			
-----	G30C13	-----	W30AAS	XTR5	✔		✔**		✔	✔				
-----	G30C15	-----	W30AAS	XTR5	✔		✔			✔	✔			
G30W09	G30C17	-----	W30AAS	None		✔								
-----	-----	G30T01	W30AAS	None		✔	✔	✔	✔					
-----	-----	G30T02	W30ABS	None		✔	✔	✔	✔				✔	
G30W11	G30C19	-----	W30AAS	None		✔			✔					
G30W12	-----	-----	W30ABS	None		✔			✔				✔	0.4 (1.5)
G30W13	G30C21	G30T03	W30AAS	G40		✔	✔	✔	✔					
G30W14	G30C22	G30T04	W30ABS	G40		✔	✔	✔	✔				✔	
-----	G30C23	G30T09	W30AAS	G40		✔	✔	✔			✔			
G30W15	G30C25	G30T05	W30AAS	G40		✔	✔	✔	✔	✔				
G30W16	G30C26	G30T06	W30ABS	G40		✔	✔	✔	✔	✔			✔	
-----	G30C27	-----	W30AAS	G40		✔	✔	✔		✔	✔			
-----	G30C29	G30T07	W30AAS	G40 RAC		✔	✔	✔	✔					
-----	G30C30	G30T08	W30ABS	G40 RAC		✔	✔	✔	✔				✔	
-----	G30C31	-----	W30AAS	G40 RAC		✔	✔	✔			✔			
G30W17	G30C33	G30T11	W30AAS	G40 RAC		✔	✔	✔	✔	✔				
G30W18	G30C34	G30T12	W30ABS	G40 RAC		✔	✔	✔	✔	✔			✔	
-----	G30C35	-----	W30AAS	G40 RAC		✔	✔	✔		✔	✔			
-----	G30C37	-----	W30AAS	XTR5	✔		✔		✔*	✔				
-----	G30C39	-----	W30AAS	G40		✔	✔	✔	✔	✔		✔		
-----	G30C40	-----	W30ABS	G40		✔	✔	✔	✔	✔		✔	✔	
G30W51	-----		W30CAS	None										1.2 (4.5)
G30W53	-----		W30CAS	None	✔									
-----	G30C51		W30CAS	None	✔				✔					
G30W55	G30C53		W30CAS	None	✔				✔	✔				
G30W56	G30C54		W30CBS	None	✔				✔	✔			✔	

Model			Pump Assembly	Gun	Air Controls		Hoses		Accessories				DataTrak	Maximum Fluid Flow Rate gpm (lpm)
Wall Mount	Cart Mount	Stand Mount			Pump Only	Pump and Gun	Gun Fluid Hose	Gun Air Hose	Siphon Kit	Fluid Filter	Hopper	Drain Valve		
G30W57	**-----**		W30CAS	XTR5	✔		✔		✔					1.2 (4.5)
G30W58	**-----**		W30CBS	XTR5	✔		✔		✔				✔	
G30W59	**G30C55**		W30CAS	XTR5	✔		✔		✔	✔				
G30W60	**G30C56**		W30CBS	XTR5	✔		✔		✔	✔			✔	
-----	**G30C57**		W30CAS	XTR5	✔		✔**		✔	✔				
G30W71	**-----**		W30CAS	None		✔								
-----	**G30C63**		W30CAS	None		✔			✔					
-----	**G30C65**		W30CAS	G40		✔	✔	✔			✔			
G30W73	**G30C67**		W30CAS	G40		✔	✔	✔	✔	✔				
G30W74	**G30C68**		W30CBS	G40		✔	✔	✔	✔	✔			✔	
-----	**G30C69**		W30CAS	G40		✔	✔**	✔	✔	✔				
-----	**G30C71**		W30CAS	G40 RAC		✔	✔	✔			✔			
G30W75	**G30C73**		W30CAS	G40RAC		✔	✔	✔	✔	✔				
G30W76	**G30C74**		W30CBS	G40RAC		✔	✔	✔	✔	✔			✔	
-----	**G30C85**		W30CAS	XTR5		✔	✔	✔	✔	✔		✔		
-----	**G30C86**		W30CBS	XTR5		✔	✔	✔	✔	✔		✔	✔	

** This package offers a short suction tube, rather than the standard suction hose.*

*** Fluid hose is 3/16 x 50 ft., rather than standard 3/16 x 25 ft.*

Merkur 36:1 Packages (G36Wxx and G36Cxx)

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

Maximum Fluid Working Pressure: 3600 psi (24.8 MPa, 248 bar)

Model				Air Controls		Hoses			Accessories				
Wall Mount	Cart Mount	Pump Assembly	Gun	Pump Only	Pump and Gun	Gun Fluid Hose	Gun Fluid Whip Hose	Gun Air Hose	Suction Hose	Fluid Filter	Drain Valve	DataTrak	Maximum Fluid Flow Rate gpm (lpm)
G36W01	**-----**	W36DAS	None										1.6 (6.0)
G36W03	**-----**	W36DAS	None	✔									
G36W04	**-----**	W36DBS	None	✔								✔	
G36W05	**G36C01**	W36DAS	None	✔					✔	✔			
G36W06	**G36C02**	W36DBS	None	✔					✔	✔		✔	
G36W07	**G36C03**	W36DAS	XTR5RAC	✔		✔			✔	✔			
G36W08	**G36C04**	W36DBS	XTR5RAC	✔		✔			✔	✔		✔	
G36W13	**G36C09**	W36DAS	G40		✔	✔	✔	✔	✔	✔			
G36W14	**G36C10**	W36DBS	G40		✔	✔	✔	✔	✔	✔		✔	
G36W15	**G36C11**	W36DAS	G40RAC		✔	✔	✔	✔	✔	✔			
G36W16	**G36C12**	W36DBS	G40RAC		✔	✔	✔	✔	✔	✔		✔	
G36W17	**G36C13**	W36DAS	G40		✔	✔	✔	✔	✔	✔	✔		
G36W18	**G36C14**	W36DBS	G40		✔	✔	✔	✔	✔	✔	✔	✔	
-----	**G36C15**	W36DAS	XTR5RAC	✔		✔			✔	✔	✔		
-----	**G36C16**	W36DBS	XTR5RAC	✔		✔			✔	✔	✔	✔	

Merkur 45:1 Packages (G45Wxx and G45Cxx)

Table A: ***Maximum Inlet Air Pressure: 100 psi (0.7 MPa, 7 bar)***
Maximum Fluid Working Pressure: 4500 psi (31.0 MPa, 310 bar)

Model		Pump Assembly	Gun	Air Controls		Hoses			Accessories			DataTrak	Maximum Fluid Flow Rate gpm (lpm)
Wall Mount	Cart Mount			Pump Only	Pump and Gun	Gun Fluid Hose	Gun Fluid Whip Hose	Gun Air Hose	Siphon Kit	Fluid Filter	Hopper		
G45W01	-----	W45BAS	None										0.8 (3.0)
G45W03	-----	W45BAS	None	✔									
G45W04	-----	W45BBS	None	✔		✔			✔	✔		✔	
-----	G45C01	W45BAS	None	✔					✔				
G45W05	G45C03	W45BAS	XTR5RAC	✔		✔			✔	✔			
G45W06	G45C04	W45BBS	XTR5RAC	✔		✔			✔	✔		✔	
-----	G45C05	W45BAS	XTR5RAC	✔		✔				✔	✔		
-----	G45C06	W45BBS	XTR5RAC	✔		✔				✔	✔	✔	
G45W11	-----	W45BAS	None		✔								
-----	G45C11	W45BAS	None		✔				✔				

Table B: ***Maximum Inlet Air Pressure: 90 psi (0.6 MPa, 6 bar)***
Maximum Fluid Working Pressure: 4000 psi (27.6 MPa, 276 bar)

Model		Pump Assembly	Gun	Air Controls		Hoses			Accessories				DataTrak	Maximum Fluid Flow Rate gpm (lpm)
Wall Mount	Cart Mount			Pump Only	Pump and Gun	Gun Fluid Hose	Gun Fluid Whip Hose	Gun Air Hose	Siphon Kit	Fluid Filter	Hopper	Drain Valve		
-----	G45C13	W45BAS	G40		✔	✔	✔	✔			✔			0.8 (3.0)
G45W13	G45C15	W45BAS	G40		✔	✔	✔	✔	✔	✔				
G45W14	G45C16	W45BBS	G40		✔	✔	✔	✔	✔	✔			✔	
G45W15	G45C17	W45BAS	G40 RAC		✔	✔	✔	✔	✔	✔				
G45W16	G45C18	W45BBS	G40 RAC		✔	✔	✔	✔	✔	✔			✔	
G45W17	G45C19	W45BAS	G40		✔	✔	✔	✔	✔	✔		✔		
G45W18	G45C20	W45BBS	G40		✔	✔	✔	✔	✔	✔		✔	✔	
-----	G45C21	W45BAS	G40		✔	✔	✔	✔		✔	✔	✔		

Merkur 48:1 Packages (G48Wxx and G48Cxx)

Table A: ***Maximum Inlet Air Pressure: 100 psi (0.7 MPa, 7 bar)***
Maximum Fluid Working Pressure: 4800 psi (33.1 MPa, 331 bar)

Model				Air Controls		Hoses			Accessories					
Wall Mount	Cart Mount	Pump Assembly	Gun	Pump Only	Pump and Gun	Gun Fluid Hose	Gun Fluid Whip Hose	Gun Air Hose	Siphon Kit	Fluid Filter	Hopper	Drain Valve	DataTrak	Maximum Fluid Flow Rate gpm (lpm)
G48W01		W48CAS	None											1.2 (4.5)
G48W03	G48C01	W48CAS	None	✔					✔	✔				
G48W04	G48C02	W48CBS	None	✔					✔	✔			✔	
G48W05	G48C03	W48CAS	XTR5 RAC	✔		✔			✔	✔				
G48W06	G48C04	W48CBS	XTR5 RAC	✔		✔			✔	✔			✔	
-----	G48C05	W48CAS	XTR5 RAC	✔		✔			✔	✔		✔		
-----	G48C06	W48CBS	XTR5 RAC	✔		✔			✔	✔		✔	✔	
G48W11	-----	W48CAS	None		✔									

Table B: ***Maximum Inlet Air Pressure: 85 psi (0.6 MPa, 6 bar)***
Maximum Fluid Working Pressure: 4000 psi (27.6 MPa, 276 bar)

Model				Air Controls		Hoses			Accessories					
Wall Mount	Cart Mount	Pump Assembly	Gun	Pump Only	Pump and Gun	Gun Fluid Hose	Gun Fluid Whip Hose	Gun Air Hose	Siphon Kit	Fluid Filter	Hopper	Drain Valve	DataTrak	Maximum Fluid Flow Rate gpm (lpm)
G48W07	G48C07	W48CAS	G40		✔	✔	✔	✔	✔	✔*		✔		1.2 (4.5)
G48W08	G48C08	W48CBS	G40		✔	✔	✔	✔	✔	✔*		✔	✔	
-----	G48C09	W48CAS	G40		✔	✔	✔	✔			✔			
G48W13	G48C11	W48CAS	G40		✔	✔	✔	✔	✔	✔				
G48W14	G48C12	W48CBS	G40		✔	✔	✔	✔	✔	✔			✔	
G48W15	G48C13	W48CAS	G40 RAC		✔	✔	✔	✔	✔	✔				
G48W16	G48C14	W48CBS	G40 RAC		✔	✔	✔	✔	✔	✔			✔	

Installation

Package configurations vary widely. See pages 6-14 to determine the components included in your model. Items designated as accessories are not included in the packages.

A Air Shutoff Valve (optional accessory)
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 (DataTrak equipped packages only, not visible, see FIG. 8, page 25)
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 Wet-Cup (not visible, see FIG. 4, page 19)
U Pump Fluid Inlet
V Suction Hose
W Fluid Drain Valve

G15 Spray Gun Shown with Supply Hose

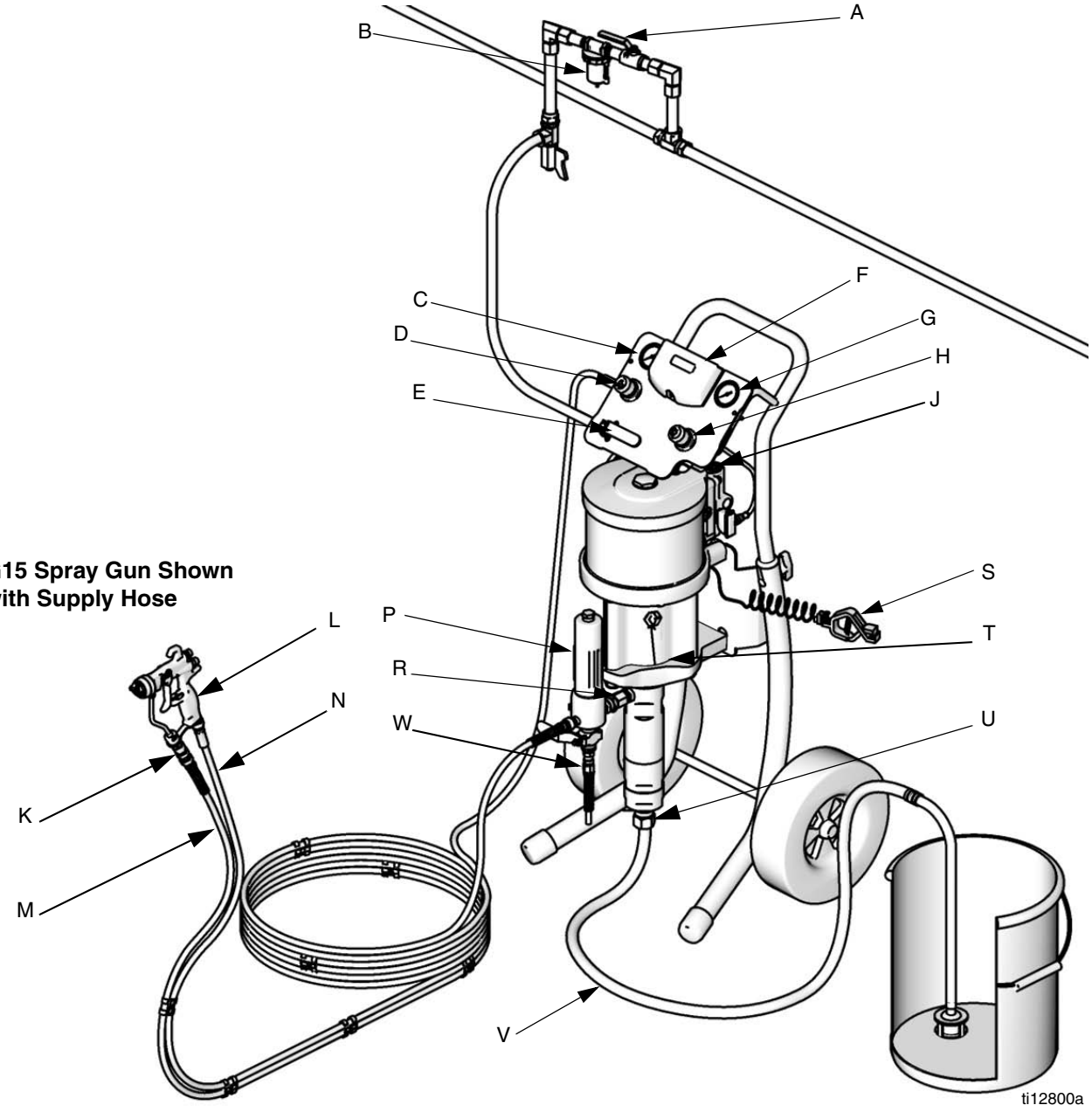


FIG. 1. Typical Installation (Your package may not include all items shown.)

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 is only a guide 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.

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.

Wall Mount Packages

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 48.
4. Attach the bracket to the wall. Use 3/8 in. (9 mm) screws that are long enough to keep the pump from vibrating during operation.

NOTE: Be sure the bracket is level.

Cart Mount Packages

In packages with M012xx and M018xx motors the muffler(s) are shipped loose. Ensure the muffler(s) are installed before first use.

Components

See FIG. 1. **Components vary by package ordered**. See tables on pages 6 to 14. Your package may include:

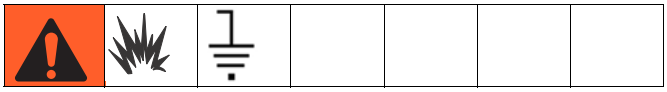
- The red-handled bleed-type master air valve (E) is required in your system to relieve air trapped between it and the air motor and gun when the valve is closed. Do not block access to the valve.
- The pump air regulator (H) controls pump speed and outlet pressure by adjusting the air pressure to the 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 (AA packages). The airless gun has a built-in fluid swivel.
- The suction hose (V) with strainer allows the pump to draw fluid from a 5 gallon (19 liter) pail. A fluid hopper with screen also is available.
- 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 (W) relieves fluid pressure in the hose and gun.
- DataTrak (F) provides pump diagnostics and material usage information. DataTrak equipped packages with M02xxx air motors do not have a runaway solenoid; all other DataTrak equipped packages do. See page 24.

Air Line Accessories

Install the following accessories in the order shown in FIG. 1, 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



1. Pump: See FIG. 2. 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.

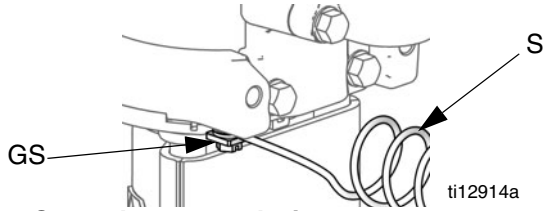


FIG. 2. Ground screw and wire

2. Pump fluid hoses: use only electrically conductive fluid hoses Check electrical resistance of hoses. If total resistance to ground exceeds 25 megohms, replace hose immediately.
3. Air compressor: follow manufacturer's recommendations.
4. Spray gun: ground through connection to a properly grounded fluid hose and pump.
5. Fluid supply container: follow your local code.
6. Object being sprayed: follow your local code.
7. Solvent pails used when flushing: follow your local code. Use only metal pails, which are conductive, placed on a grounded surface. Do not place the pail on a nonconductive surface, such as paper or cardboard, which interrupts the grounding continuity.
8. To maintain grounding continuity when flushing or relieving pressure, hold a metal part of the spray gun firmly to the side of a grounded metal pail, then trigger the gun.

Setup

1. See FIG. 1. Attach end of blue fluid hose (M) 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 gun swivel (K) to gun fluid inlet.
5. Attach other end of blue fluid hose (M) to gun swivel (K).
6. Clip fluid and air hoses together with the supplied hose clips (qty. of 7). Space clips as needed.
7. Apply lens cover to both regulator gauge lenses.
8. Verify that suction hose fittings are tight.

Operation

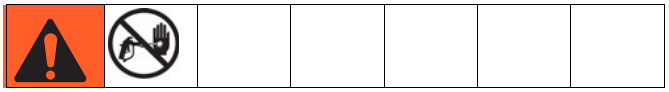
Pressure Relief Procedure

1. Engage the trigger lock.
2. See FIG. 1. Turn off the bleed-type master air valve (D).
3. Disengage the trigger lock.
4. Hold a metal part of the gun firmly to a grounded metal waste container. Trigger the gun to relieve fluid pressure.
5. Engage the trigger lock.
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 **Flush the Pump** on page 22.

Trigger Lock



See FIG. 3. Always engage gun trigger lock when you stop spraying to prevent gun from being triggered accidentally by hand or if dropped or bumped.

Gun Trigger Safety Locked

TI6581A

Gun Trigger Safety Unlocked

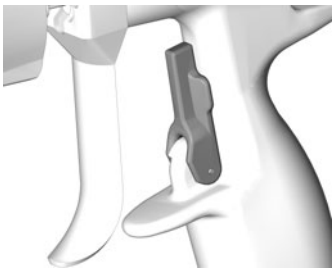


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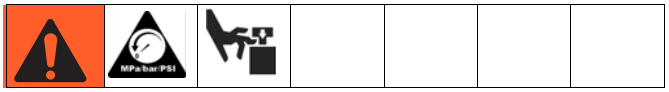
FIG. 3. Trigger Lock

Wet Cup



Before starting, fill wet cup (T) 1/3 full with Graco Throat Seal Liquid (TSL) or compatible solvent.

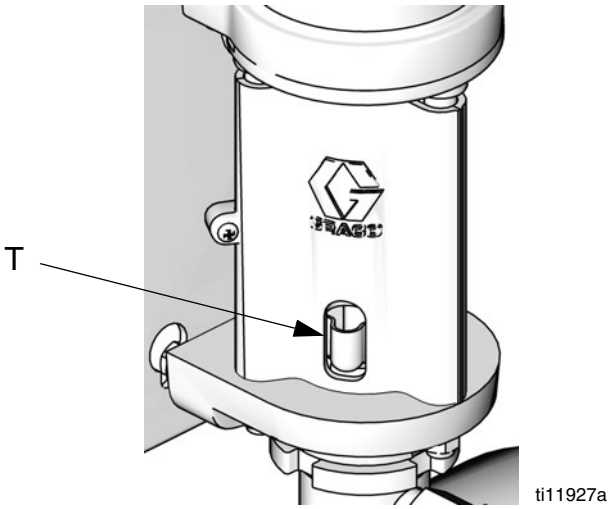


FIG. 4. Wet Cup

Prime the Pump

1. See FIG. 1. Lock gun trigger. Remove tip guard and spray tip from gun (L). 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. Connect air line to bleed type air valve (D).
4. Check that all fittings throughout system are tightened securely.
5. Position pail close to pump. Suction hose is 4 ft (1.2 m) long. Do not stretch hose tight; let it hang to assist fluid flow into pump.
6. Hold metal part of gun (L) firmly to side of grounded metal pail, unlock trigger, and hold trigger open.
7. *Units with runaway protection only:* enable the prime/flush function by pushing the prime/flush button on the DataTrak.

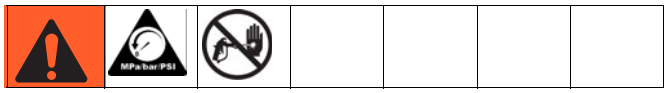
8. Open bleed-type air valve (E). Slowly turn clockwise pump air regulator (H) increasing pressure until pump starts.

9. Cycle pump slowly until all air is pushed out and pump and hoses are fully primed.

10. *Units with runaway protection only:* disable the prime/flush function by pushing the prime/flush button on the DataTrak.

11. Release gun trigger and lock trigger safety. Pump should stall against pressure.

Install the Spray Tip



Follow **Pressure Relief Procedure**, page 18. 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 Atomization

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. Hold gun perpendicular and approximately 12 inches (304 mm) from surface.

3. Move gun first, then pull gun trigger to spray onto test paper.

4. 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)

Adjust the Spray Pattern

Packages with Airless Guns

The spray tip orifice and spray angle determine pattern coverage and size. When you need more coverage, use a larger spray tip rather than increasing fluid pressure. Align guard horizontally to spray a horizontal pattern. Align guard vertically to spray a vertical pattern.

Packages with AA Guns

1. See FIG. 5. Close off pattern adjustment air by turning knob (AA) clockwise (in) all the way. This sets gun for its widest pattern.

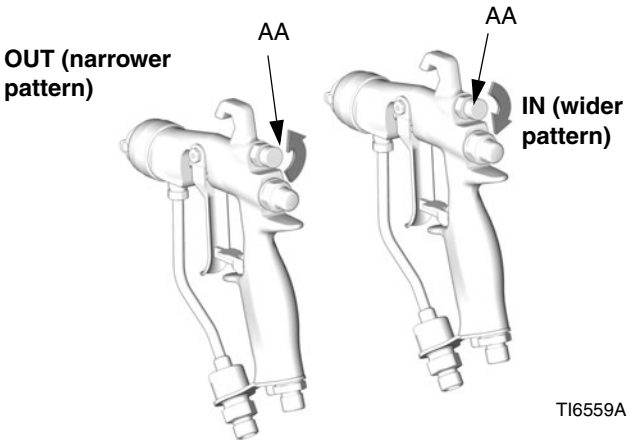


FIG. 5. Pattern Air Knob

2. See FIG. 6. 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.

3. See FIG. 5. For narrower pattern, turn pattern adjustment valve knob (AA) counterclockwise (out). If pattern is still not narrow enough, increase air pressure to gun slightly or use different size tip.

FIG. 6. Spray Pattern Problems

Shutdown

Follow **Pressure Relief Procedure**, page 18.

Always flush the pump before the fluid dries on the displacement rod. See **Flush the Pump** on page 22.

Maintenance

Preventive Maintenance Schedule

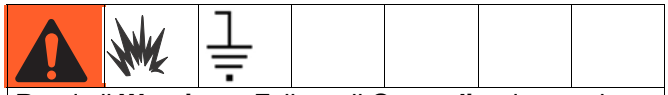
The operating conditions of your particular system determine how often maintenance is required. Establish a preventive maintenance schedule by recording when and what kind of maintenance is needed, and then determine a regular schedule for checking your system.

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.

Flush the Pump



Read all **Warnings.** Follow all **Grounding** instructions. See page **17.**

Flush the pump:

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

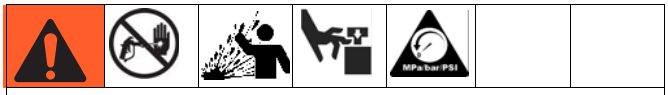
Flush at the lowest pressure possible. Flush with a fluid that is compatible with the fluid you are pumping and with the wetted parts in your system. Check with your fluid manufacturer or supplier for recommended flushing fluids and flushing frequency.

1. Follow **Pressure Relief Procedure**, page 18.
2. Remove tip guard and spray tip from gun. Refer to separate gun manual.
3. Place siphon tube in grounded metal pail containing cleaning fluid.
4. Set pump to lowest possible fluid pressure, and start pump.
5. Hold a metal part of the gun firmly to a grounded metal pail.
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 18.
10. Clean the tip guard, spray tip, and fluid filter element separately, then reinstall them.
11. Clean inside and outside of suction tube.

Wet Cup

Fill the wet cup one-half full with Graco Throat Seal Liquid (TSL). Maintain level daily.

Troubleshooting



Relieve the pressure 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.
	Fluid dried on the displacement rod.	Clean; always stop the pump at the bottom of its stroke; keep the wet-cup 1/3 filled with Graco throat seal liquid (TSL).
	Dirty, worn, or damaged air motor parts.	Clean or repair air motor. See manual 312796.
	DataTrak models only: Air valve cannot cycle because solenoid pin is extended.	Enable runaway protection (See **DataTrak Operation**, **Setup Mode**, 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 manual 312792.
Pump operates, but output is low on downstroke.	Held open or worn ball check valves or piston packings.	Clear valve; replace packings. See manual 312792.
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 manual 312792.
Fluid being pumped is visible in the TSL reservoir.	Worn throat packings.	Replace throat packings. See manual 312792.

* 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. It the pump starts when the air is turned on, the obstruction is in the hose or gun.

DataTrak Controls and Indicators

Key for FIG. 7

AA Runaway Limit, in cycles per minute (user settable; 00=OFF)
AB Lower Displacement (user settable)
AC Flow Rate Units (user settable to ↕/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 protection 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

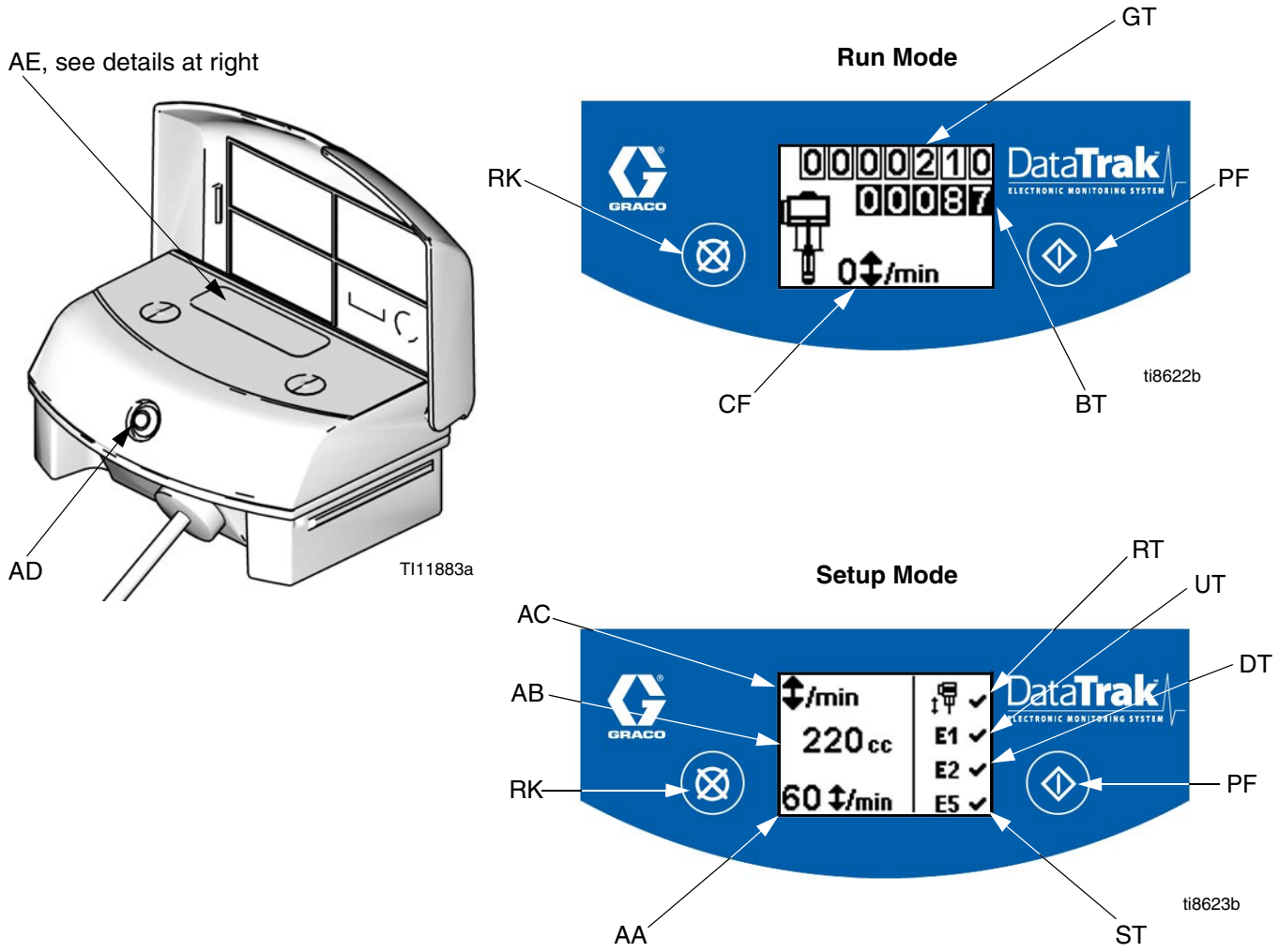


FIG. 7. DataTrak Controls and Indicators

DataTrak Operation

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

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

Setup Mode

1. See FIG. 7. Press and hold ◇ for 5 seconds until Setup menu appears.
2. To enter settings for runaway (if equipped), 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 (if equipped) to 60 . All DataTrak modules are shipped with runaway protection not enabled.

NOTE: When runaway, E1, E2, and E5 error options are enabled, a ✓ will appear on the setup screen. See FIG. 7.

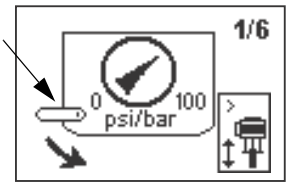
3. Move the cursor to the E5 error enable option field, then press ◇ once more to exit Setup mode.

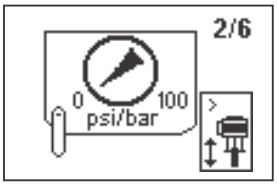
Run Mode

Runaway

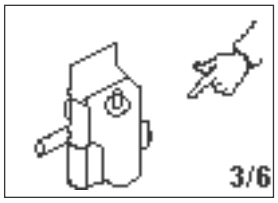
NOTE: DataTrak is available with and without runaway protection. Packages with M02xxx air motors ship without a runaway solenoid. All other packages are equipped with a runaway solenoid.

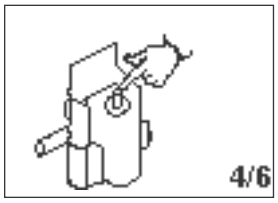
1. See FIG. 7. If pump runaway occurs, the runaway solenoid will actuate, stopping the pump. The LED (AD) will flash and the display (AE) will indicate a runaway condition (see Table 1). The display will cycle through six instruction screens.
2. Runaway Screens 1 and 2: To reset the runaway solenoid, 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.





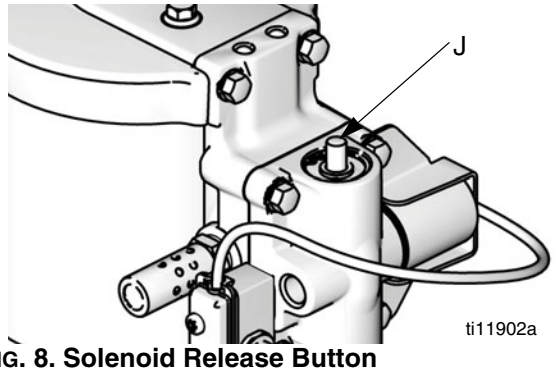
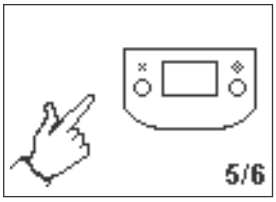
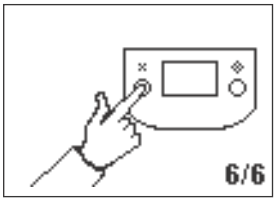


FIG. 8. Solenoid Release Button

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

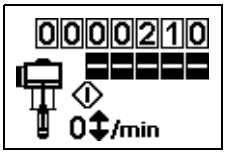




5. Open master air valve (E) to restart pump.

NOTE: To disable runaway monitoring, go to setup mode and set runaway value to 0 (zero) or toggle (RT) off ⊗ (see FIG. 7).

Prime/Flush

1. See FIG. 7. 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. 7. 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. 7. 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.

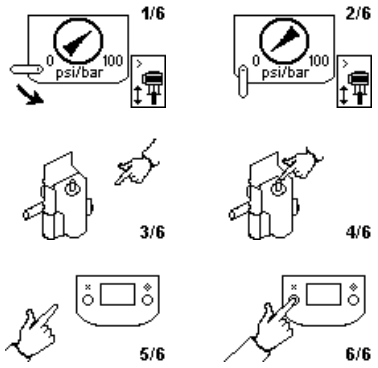
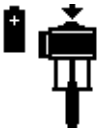
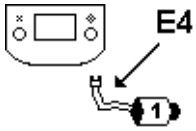
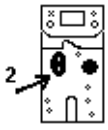
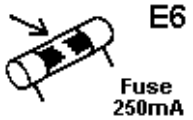
NOTE: The display (AE) may turn off if a high-level static discharge is applied to the DataTrak. Press any key to wake up the display.

Diagnostics

DataTrak can diagnose several problems with the pump. When the monitor detects a problem, the LED (AD, FIG. 7) 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 (DataTrak only)	Pump running faster than set runaway limit.	• Increased air pressure. • Increased fluid output. • Exhausted fluid supply.
	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 (units with runaway protection only)	Problem with stopping runaway.	• Damaged solenoid. • Damaged valve carriage. • Runaway (RT, FIG. 7) protection may be enabled with pump that is not equipped with a runaway solenoid valve. Enter setup screen and disable runaway protection.
	E-4	Disconnected Solenoid (units with runaway protection only)	Solenoid is disconnected.	• Solenoid unplugged. • Damaged solenoid wires.
			Solenoid is not engaging piston cup (112).	• Bracket and solenoid not tight against air valve housing.
	E-5	Service Component 2	Problem with sensing valve movement.	• Sensors unplugged. • Sensors mounted incorrectly. • Damaged sensors. • Damaged valve carriage.
	E-6	Blown Fuse	Fuse is blown. Replace fuse; see page 28.	• Faulty solenoid or solenoid wiring. • Extreme temperatures (above 140°F [60°C]). • Runaway (RT, FIG. 7) protection may be enabled with pump that is not equipped with a runaway solenoid valve. Enter setup screen and disable runaway protection.

Replace DataTrak Battery or Fuse

The battery and fuse must be replaced in a non-hazardous location.

Use only the following approved replacement batteries. Use of an unapproved battery will void Graco's warranty and FM and Ex approvals.

- Ultralife lithium # U9VL
- Duracell alkaline # MN1604
- Energizer alkaline # 522
- Varta alkaline # 4922

Use only a Graco-approved replacement fuse. Order Part 24C580.

Replace Battery

1. Unscrew cable from the back of the reed switch assembly. See FIG. 9.
2. Remove the cable from the two cable clips.

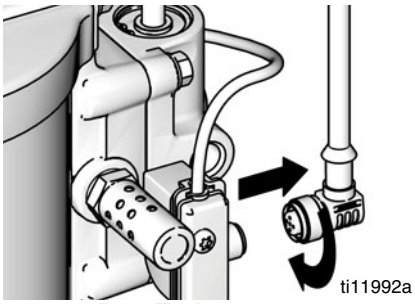


FIG. 9. Disconnect DataTrak

3. Remove DataTrak module from bracket. See FIG. 10. Take module and attached cable to a non-hazardous location.

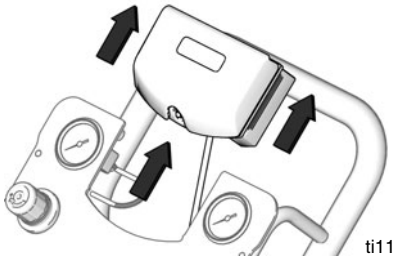


FIG. 10. Remove DataTrak

4. Remove two screws on back of module to access battery.
5. Disconnect the used battery and replace with an approved battery. See FIG. 11.

Replace Fuse

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

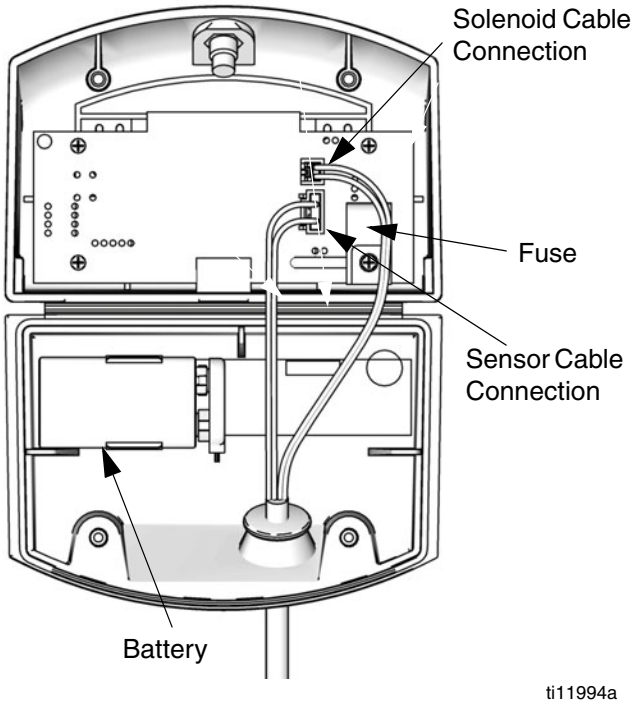
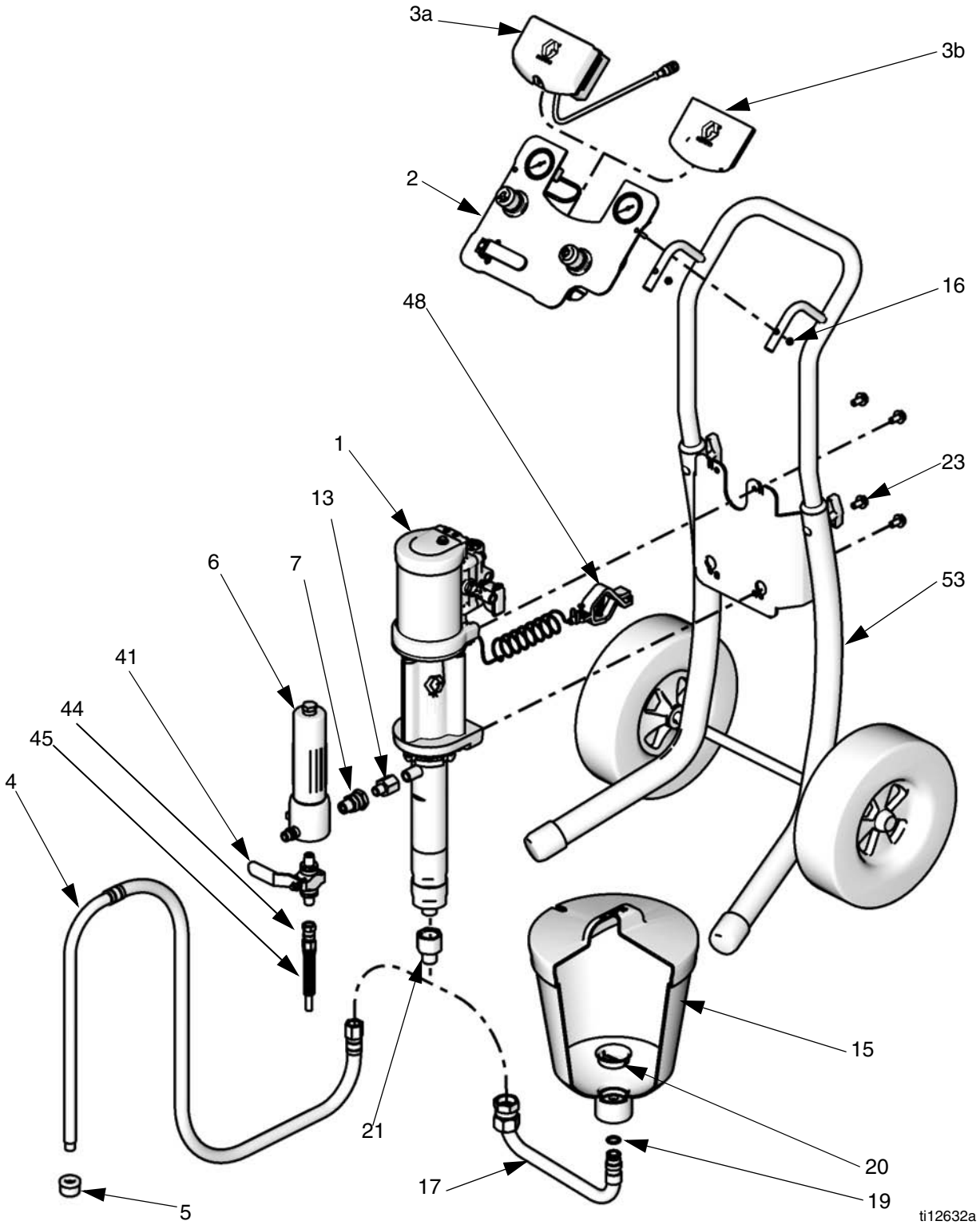


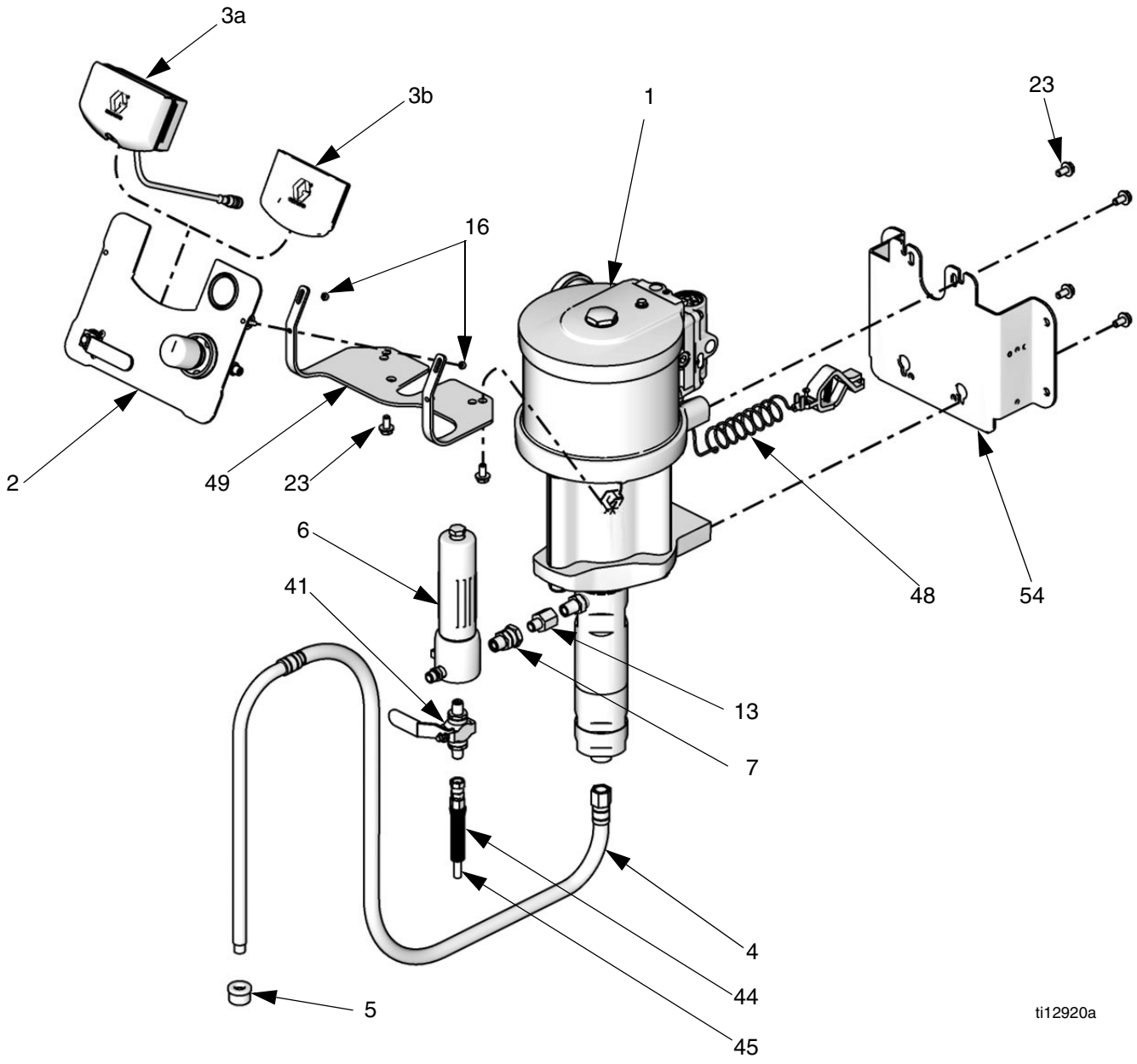
FIG. 11. DataTrak Battery and Fuse Location

Parts

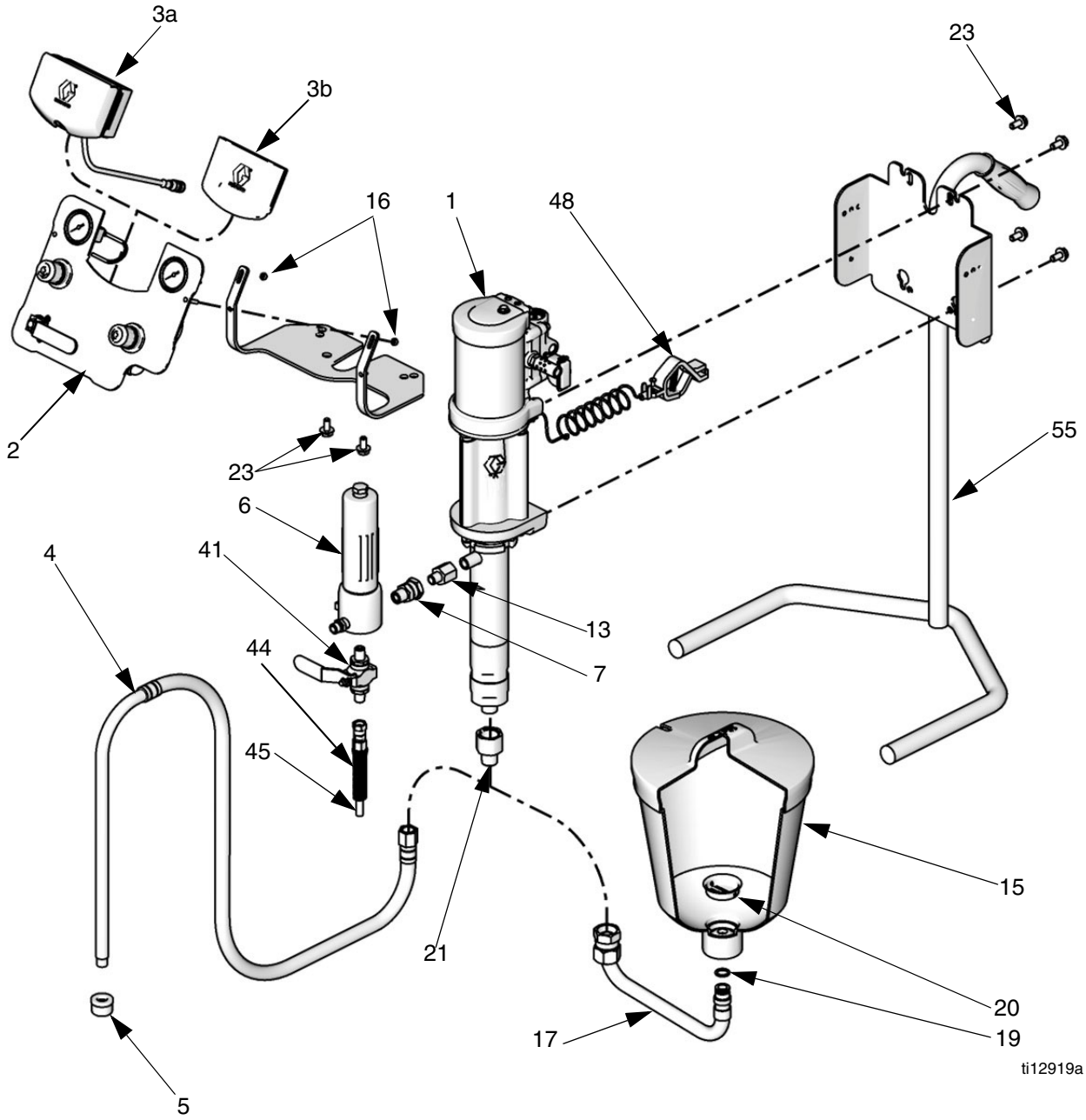
Cart Mount



Wall Mount



Stand Mount



NOTE:

- See page 43 for mounting kits for all packages.
- See page 44 for repair parts and accessories.

Package	Parts List Page
G10xxx	33
G15xxx	34
G18xxx	35
G23xxx	36
G24xxx	37
G28xxx	38
G30xxx	39
G36xxx	40
G45xxx	41
G48xxx	42

G10xxx Models

This list includes all possible parts for G10xxx packages. See page 6 to check whether a part is included in your particular package.

Ref	Part	Description	Qty
1	 W10CAS W10CBS	Pump Assembly; *see Manual 312794* M04LN0 x LW075A M04LT0 x LW075A	1
2	24A585	PANEL, air control; *see page* 44	1
3a	24A575	DATATRAK, assembly; *see manual 313541*	1
3b	-----	INSERT, panel (included with Part 2)	1
4	256420	HOSE, suction (includes Part 5)	1
5	-----	STRAINER (included with Part 4, or *see page 46 for packages of 10*)	1
6	24A587	FILTER, fluid	1
7	-----	FITTING, union, 3/8-18 npsm x 3/8-18 npt, (included with Part 6)	1
8	189018	SWIVEL, fluid hose (packages with gun)	1
9	241812	HOSE, fluid (packages with gun)	1
10	24C853	GUN, G15, carbide	1
11	AAM413	TIP (packages with gun)	1
12	AAMxxx	TIP OPTION, (packages with gun)	1
13	512351	ADAPTER, outlet, 1/4 nptm x 3/8 nptf	1
14	256390	AIR HOSE, gun, (packages with gun)	1
15	256410	HOPPER (includes 17, 19, 20)	1
16	105332	NUT, lock, M5 x 0.08 (included with Parts 2 and 49)	2
17	-----	TUBE, inlet, hopper (included with Part 15)	1
18	-----	CLIP, hose (packages with gun), *see page 46 for packages of 10*	7
19	-----	O-RING, hopper (included with Part 15)	1
20	-----	SCREEN, hopper (included with Part 15)	1
21	24B299	ADAPTER, inlet, 3/4 nptf to 1/2 nptm, for suction hose	1
23	111799	SCREW, M8 x 16 (included with Parts 49, 53, and 54) Wall mount Cart mount	 6 4
48	238909	WIRE, grounding assembly	1
49	24E883	BRACKET, air control, wall mount only (includes Parts 16 and 23)	1
53	See p. 43	CART MOUNTING KIT; *see page 43* (G10Cxx models only)	1
54	See p. 43	WALL MOUNTING KIT; *see page* 43 (G10Wxx models only)	1

----- Not sold separately.

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

G15xxx Models

This list includes all possible parts for G15xxx packages. See page 7 to check whether a part is included in your particular package.

Ref.	Part	Description	Qty.
1		Pump Assembly; *see Manual 312794*	1
	W15AAS	M02LN0 x LW025A	
	W15BAS	M04LN0 x LW050A	
	W15BBS	M04LT0 x LW050A	
	W15FAS	M12LN0 x LW150A	
	W15FBS	M12LT0 x LW150A	
2		PANEL, air controls (includes Part 3b)	1
	24A585	M02xxx or M04xxx motor, pump and gun; *see page* 44	
	24A583	M12xxx motor, pump only; *see page 45*	
	24A581	M12xxx motor, pump and gun; *see page 44*	
3a		DATATRAK, assembly; *see manual 313541*	1
	24A575	M02xxx and M04xxx motor	
	24A576	M12xxx motor	
3b	-----	INSERT, panel (included with Part 2)	1
4		HOSE, suction (includes Part 5))	1
	256420	LW025A or LW050A displacement pump	
	256422	LW150A displacement pump, cart mount	
	256424	LW150A displacement pump, wall mount	
5		STRAINER (included with Part 4)	1
	-----	LW025A or LW050A displacement pump, *see page 46 for packages of 10*	
	187190	LW150A displacement pump	
6	24A587	FILTER, fluid	1
7	-----	FITTING, union (included with Part 6)	1
8	189018	SWIVEL, fluid hose (packages with AA gun)	1
9	241812	HOSE, fluid (packages with gun)	1
10	24C853	GUN, G15 Carbide	1
11	AAM413	TIP (packages with AA gun)	1
12	AAMxxx	TIP OPTION (packages with AA gun)	1
13		ADAPTER, outlet	1
	512351	LW025A or LW050A displacement pump,1/4 nptm x 3/8 nptf	
	121238	LW150A displacement pump, 3/8 nptm x 3/4 nptf	
14	256390	AIR HOSE, gun (all AA packages)	1
15	256410	HOPPER (includes 17, 19, 20, and 21)	1
16	105332	NUT, lock, M5 x 0.08 (included with Parts 2 and 49)	2
17	-----	TUBE, inlet, hopper (included with Part 15)	1
18	-----	CLIP, hose (all AA packages), *see page 46 for packages of 10*	7
19	-----	O-RING, hopper (included with Part 15)	1
20	-----	SCREEN, hopper (included with Part 15)	1
21		ADAPTER, 3/4 in. to 1/2 in.	1
	-----	LW025A displacement pump with hopper (included with Part 15)	
	24B299	LW050A or LW075A displacement pump with suction hose	
22	239069	HOSE, whip	1
23	111799	SCREW, M8 x 16 (included with Parts 49, 53, and 54)	
		Wall and stand mount	6
		Cart mount	4
26	105335	SCREW (stand mount only)	1
37	166846	ADAPTER, for whip hose	1
48	238909	GROUNDING WIRE assembly	1
49	24E883	BRACKET, air control, wall and stand mount only (includes Parts 16 and 23)	1
53	289694	CART MOUNTING KIT; *see page 43* (G15Cxx models only)	1
54	24A578	WALL MOUNTING KIT; *see page 43* (G15Wxx models only)	1
55	24A577	STAND MOUNTING KIT; *see page 43* (G15Txx models only)	1

----- *Not sold separately.*

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

G18xxx Models

This list includes all possible parts for G18xxx packages. See page 8 to check whether a part is included in your particular package.

Ref.	Part	Description	Qty.
1		Pump Assembly, *see Manual 312794*	1
	W18EAS	M12LN0 x LW125A	
	W18EBS	M12LT0 x LW125A	
2		PANEL, air controls (includes 3b)	1
	24A583	pump only; *see page 45*	
	24A581	pump and gun; *see page 44*	
3a	24A576	DATATRAK, assembly; *see manual 313541*	1
3b	-----	INSERT, panel (included with Part 2)	1
4		HOSE, suction (includes Part 5)	1
	256422	cart mount packages	
	256424	wall mount packages	
5	187190	STRAINER (included with Part 4)	1
6	24A587	FILTER, fluid	1
7	-----	FITTING, union (included with Part 6)	1
8	189018	SWIVEL, fluid hose (packages with AA gun)	1
9	241812	HOSE, fluid (packages with gun)	1
10		GUN	1
	24C855	G40	
	24C857	G40 with RAC tip	
11	AAM413	TIP, (packages with gun)	1
12	AAMxxx	TIP OPTION (packages with gun)	1
13	121237	ADAPTER, 3/8 nptm x 1/2 nptf	1

Ref.	Part	Description	Qty.
14	256390	AIR HOSE, gun (all AA packages)	1
16	105332	NUT, lock, M5 x 0.08 (included with Parts 2 and 49)	2
18	-----	CLIP, hose (all AA packages), *see page 46 for packages of 10*	7
22	239069	HOSE, whip	1
23	111799	SCREW, M8 x 16 (included with Parts 49, 53, and 54)	
		Wall mount	6
		Cart mount	4
37	166846	ADAPTER, for whip hose	1
48	238909	WIRE, grounding assembly	1
49	24E883	BRACKET, air control, wall mount only (includes Parts 16 and 23)	1
53	289694	CART MOUNTING KIT; *see page 43* (G18Cxx models only)	1
54	24A578	WALL MOUNTING KIT; *see page 43* (G18Wxx models only)	1

----- Not sold separately.

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

G23xxx Models

This list includes all possible parts for G23xxx packages. See page 8 to check whether a part is included in your particular package.

Ref.	Part	Description	Qty.
1		Pump Assembly, *see Manual 312794*	1
	W23DAS	M12LN0 x LW100A	
	W23DBS	M23LT0 x LW100A	
2		PANEL, air controls (includes 3b)	1
	24A583	pump only; *see page 45*	
	24A581	pump and gun; *see page 44*	
3a	24A576	DATATRAK, assembly; *see manual 313541*	1
3b	-----	INSERT, panel (included with Part 2)	1
4		HOSE, suction (includes Part 5)	1
	256421	cart mount packages	
	256423	wall mount packages	
5	187146	STRAINER (included with Part 4)	1
6	24A587	FILTER, fluid	1
7	-----	FITTING, union (included with Part 6)	1
8	189018	SWIVEL, fluid hose (packages with AA gun)	1
9	241812	HOSE, fluid (packages with gun)	1
10		GUN	1
	XTR501	XTR 5	
	24C855	G40	
	24C857	G40 with RAC tip	
11	AAM413	TIP (packages with G40 gun)	1
12	AAMxxx	TIP OPTION (packages with G40 gun)	1
13	512351	ADAPTER, 1/4 nptm x 3/8 nptf	1
14	256390	AIR HOSE, gun (all AA packages)	1
15	256410	HOPPER (includes Parts 17, 19, and 20)	1
16	105332	NUT, lock, M5 x 0.08 (included with Parts 2 and 49)	2
17	-----	TUBE, inlet, hopper (included with Part 15)	1
18	-----	CLIP, hose (all AA packages), *see page 46 for packages of 10*	7
19	-----	O-RING, hopper (included with Part 15)	1
20	-----	SCREEN, hopper (included with Part 15)	1
22	239069	HOSE, whip	1
23	111799	SCREW, M8 x 16 (included with Parts 49, 53, and 54)	
		Wall mount	6
		Cart mount	4
37	166846	ADAPTER, for whip hose	1
48	238909	WIRE, grounding assembly	1
49	24E883	BRACKET, air control, wall mount only (includes Parts 16 and 23)	1
53	289694	CART MOUNTING KIT; *see page 43* (G23Cxx models only)	1
54	24A578	WALL MOUNTING KIT; *see page 43* (G23Wxx models only)	1

----- Not sold separately.

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

G24xxx Models

This list includes all possible parts for G24xxx packages. See page 9 to check whether a part is included in your particular package.

Ref.	Part	Description	Qty.
1		Pump Assembly, *see Manual 312794*	1
	W24FAS	M18LN0 x LW150A	
	W24FBS	M18LT0 x LW150A	
2		PANEL, air controls (includes Part 3b)	1
	24A583	pump only; *see page 45*	
	24A581	pump and gun; *see page 44*	
3a	24A576	DATATRAK, assembly; *see manual 313541*	1
3b	-----	INSERT, panel (included with Part 2)	1
4		HOSE, suction (includes Part 5)	1
	256422	cart mount packages	
	256424	wall mount packages	
5	187190	STRAINER (included with Part 4)	1
6	24A587	FILTER, fluid	1
7	-----	FITTING, union (included with Part 6)	1
8	189018	SWIVEL, fluid hose (packages with AA gun)	1
9	241812	HOSE, fluid (packages with gun)	1
10		GUN	1
	XTR501	XTR 5	
	24C855	G40	
	24C857	G40 with RAC tip	
11	AAM413	TIP (Packages with G40 gun)	1
12	AAMxxx	TIP OPTION (Packages with G40 gun)	1
13	121238	ADAPTER, 3/8 nptf x 3/4 nptm	1

Ref.	Part	Description	Qty.
14	256390	AIR HOSE, gun (all AA packages)	1
16	105332	NUT, lock, M5 x 0.08 (included with Parts 2 and 49)	2
18	-----	CLIP, hose (all AA packages), *see page 46 for packages of 10*	7
22	239069	HOSE, whip	1
23	111799	SCREW, M8 x 16 (included with Parts 49, 53, and 54)	
		Wall mount	6
		Cart mount	4
37	166846	ADAPTER, for whip hose	1
48	238909	WIRE, grounding assembly	1
49	24E883	BRACKET, air control, wall mount only (includes Parts 16 and 23)	1
53	289694	CART MOUNTING KIT; *see page 43* (G24Cxx models only)	1
54	24A578	WALL MOUNTING KIT; *see page 43* (G24Wxx models only)	1

----- Not sold separately.

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

G28xxx Models

This list includes all possible parts for G28xxx packages. See page 9 to check whether a part is included in your particular package.

Ref.	Part	Description	Qty.
1		Pump Assembly, *see Manual 312794*	1
	W28EAS	M18LN0 x LW125A	
	W28EBS	M18LT0 x LW125A	
2		PANEL, air controls (includes Part 3b)	1
	24A583	pump only; *see page 45*	
	24A581	pump and gun; *see page 44*	
3a	24A576	DATATRAK, assembly; *see manual 313541*	1
3b	-----	INSERT, panel (included with Part 2)	1
4		HOSE, suction (includes Part 5)	1
	256422	cart mount packages	
	256424	wall mount packages	
5	187190	STRAINER (included with Part 4)	1
6	24A587	FILTER, fluid	1
7	-----	FITTING, union (included with Part 6)	1
8	189018	SWIVEL, fluid hose (packages with AA gun)	1
9	241812	HOSE, fluid (packages with gun)	1
10		GUN	1
	XTR501	XTR 5	
	24C855	G40	
	24C857	G40 with RAC tip	
11	AAM413	TIP (Packages with AA gun)	1
12	AAMxxx	TIP OPTION (Packages with AA gun)	1
13	121237	ADAPTER, 3/8 nptm x 1/2 nptf	1

Ref.	Part	Description	Qty.
14	256390	AIR HOSE, gun (all AA packages	1
16	105332	NUT, lock, M5 x 0.08 (included with Parts 2 and 49)	2
18	-----	CLIP, hose (all AA packages), *see page 46 for packages of 10*	7
22	239069	HOSE, whip	1
23	111799	SCREW, M8 x 16 (included with Parts 49, 53, and 54)	
		Wall mount	6
		Cart mount	4
37	166846	ADAPTER, for whip hose	1
48	238909	WIRE, grounding assembly	1
49	24E883	BRACKET, air control, wall mount only (includes Parts 16 and 23)	1
53	289694	CART MOUNTING KIT; *see page 43* (G28Cxx models only)	1
54	24A578	WALL MOUNTING KIT; *see page 43* (G28Wxx models only)	1

----- Not sold separately.

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

G30xxx Models

This list includes all possible parts for G30xxx packages. See page 10 to check whether a part is included in your particular package.

Ref.	Part	Description	Qty.
1		Pump Assembly, *see Manual 312794*	1
	W30AAS	M04LN0 x LW025A	
	W30ABS	M04LT0 x LW025A	
	W30CAS	M12LN0 x LW075A	
	W30CBS	M12LT0 x LW075A	
2		PANEL, air controls (includes Part 3b)	1
	24A586	M04xxx motor, pump only, *see page 45*	
	24A585	M04xxx motor, pump and gun; *see page 44*	
	24A583	M12xxx motor, pump only; *see page 45*	
	24A581	M12xxx motor, pump and gun; *see page 44*	
3a		DATATRAK, assembly; *see manual 313541*	1
	24A575	M04xxx motors	
	24A576	M12xxx motors	
3b	-----	INSERT, panel (included with Part 2)	1
4		HOSE, suction (includes Part 5)	1
	256420	LW025A displacement pump	
	24C581	G30C37 Model	
	256421	LW075A displacement pump, cart mount	
	256423	LW075A displacement pump, wall mount	
5		STRAINER (included with Part 4)	1
	-----	LW025A displacement pump, *see page 46 for packages of 10*	
	187146	LW075A displacement pump	
6	24A587	FILTER, fluid, assembly (if included, uses parts 6a and 6b)	1
6a	24A587	FILTER, fluid, *see Manual 307273*	1
6b	-----	FITTING, union	1
8	189018	SWIVEL, fluid hose (packages with AA gun)	1
9		HOSE, fluid (packages with gun)	1
	H52525	G30W57–G30W60	
	24B562	G30C13, G30C57, G30C69	
	241812	All other packages	
10		GUN	1
	XTR501	XTR 5	
	24C855	G40	
	24C857	G40 with RAC tip	
11	AAM413	TIP (Packages with AA guns	1
12	AAMxxx	TIP OPTION (Packages with AA guns)	1
13	512351	ADAPTER, 1/4 nptm x 3/8 nptf	1
14	256390	AIR HOSE, gun, 25 ft (7.6 m); used on most AA packages	1
	256389	AIR HOSE, gun, 50 ft (15.2 m); Model G30C69 only	1
15	256410	HOPPER (includes Parts 17, 19, and 20)	1
16	105332	NUT, lock, M5 x 0.08 (included with Parts 2 and 49)	2
17	-----	TUBE, inlet, hopper (included with Part 15)	1
18	-----	CLIP, hose (all AA packages), see page 46 for packages of 10	7
19	-----	O-RING, hopper (included with Part 15)	1
20	-----	SCREEN, hopper (included with Part 15)	1
21	-----	ADAPTER, 3/4 in. to 1/2 in., (LW025A only, included with Part 15)	1
22	239069	HOSE, whip	1
23	111799	SCREW, M8 x 16 (included with Parts 49, 53, and 54)	
		Wall and stand mount	6
		Cart mount	4
26	105335	SCREW (stand mount only)	1
37	166846	ADAPTER, for whip hose	1
41	256425	VALVE, drain, stainless steel (if equipped, includes Parts 44 and 45)	1
44	-----	COUPLING, hose, drain (included with Part 41)	1
45	-----	HOSE, drain (included with Part 41)	1
48	238909	GROUNDING WIRE assembly	1
49	24E883	BRACKET, air control, wall and stand mount only (includes Parts 16 and 23)	1
53	289694	CART MOUNTING KIT; *see page 43* (G30Cxx models only)	1
54	24A578	WALL MOUNTING KIT; *see page 43* (G30Wxx models only)	1
55	24A577	STAND MOUNTING KIT; *see page 43* (G30Txx models only)	1

----- Not sold separately.

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

G36xxx Models

This list includes all possible parts for G36xxx packages. See page 12 to check whether a part is included in your particular package.

Ref.	Part	Description	Qty.
1		Pump Assembly, *see Manual 312794*	1
	W36DAS	M18LN0 x LW100A	
	W36DBS	M18LT0 x LW100A	
2		PANEL, air controls (includes Part 3b)	1
	24A583	pump only; *see page 45*	
	24A581	pump and gun; *see page 44*	
3a	24A576	DATATRAK, assembly; *see manual 313541*	1
3b	------	INSERT, panel (included with Part 2)	1
4		HOSE, suction (includes Part 5)	1
	256421	cart mount packages	
	256423	wall mount packages	
5	187146	STRAINER (included with Part 4)	1
6	24A587	FILTER, fluid	1
7	------	FITTING, union (included with Part 6)	1
8	189018	SWIVEL, fluid hose (packages with AA gun)	1
9		HOSE, fluid (packages with gun)	1
	H42525	XTR 5 with RAC tip	
	24A446	G40 and G40 with RAC tip	
10		GUN	1
	XTR504	XTR 5 with RAC tip	
	24C855	G40	
	24C857	G40 with RAC tip	
11	AAM413	TIP (packages with G40 gun)	1
12	AAMxxx	TIP OPTION (packages with G40 gun)	1
13	512351	ADAPTER, 1/4 nptm x 3/8 nptf	1
14	256390	AIR HOSE, gun, (all AA packages)	1
16	105332	NUT, lock, M5 x 0.08 (included with Parts 2 and 49)	2

Ref.	Part	Description	Qty.
18	-----	CLIP, hose (all AA packages), *see page 46 for packages of 10*	7
22	239069	HOSE, whip (AA packages only)	1
23	111799	SCREW, M8 x 16 (included with Parts 49, 53, and 54)	
		Wall mount	6
		Cart mount	4
37	166846	ADAPTER, for whip hose (AA packages only)	1
41	256425	VALVE, drain, stainless steel (includes Parts 44 and 45)	1
44	-----	COUPLING, hose, drain (included with Part 41)	1
45	-----	HOSE, drain (included with Part 41)	1
48	238909	WIRE, grounding assembly	1
49	24E883	BRACKET, air control, wall mount only (includes Parts 16 and 23)	1
53	289694	CART MOUNTING KIT; *see page 43* (G36Cxx models only)	1
54	24A578	WALL MOUNTING KIT; *see page 43* (G36Wxx models only)	1

----- Not sold separately.

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

G45xxx Models

This list includes all possible parts for G45xxx packages. See page 13 to check whether a part is included in your particular package.

Ref.	Part	Description	Qty.
1		Pump Assembly, *see Manual 312794*	1
	W45BAS	M12LN0 x LW050A	
	W45BBS	M12LT0 x LW050A	
2		PANEL, air controls (includes 3b)	1
	24A583	pump only, 100 psi; *see page 45*	
	24A581	pump and gun, 100 psi; *see page 44*	
	24A582	pump and gun, 90 psi; *see page 44*	
3a	24A576	DATATRAK, assembly; *see manual 313541*	1
3b	------	INSERT, panel (included with Part 2)	1
4		HOSE, suction (includes Part 5)	1
	256421	cart mount packages	
	256423	wall mount packages	
5	187146	STRAINER (included with Part 4)	1
6	24A587	FILTER, fluid	1
7	-----	FITTING, union (included with Part 6)	1
8	189018	SWIVEL, fluid hose (packages with AA gun)	1
9		HOSE, fluid (packages with gun)	1
	H42525	XTR 5 with RAC tip	
	24A446	G40 and G40 with RAC tip	
10		GUN	1
	XTR504	XTR 5 with RAC tip	
	24C855	G40	
	24C857	G40 with RAC tip	
11	AAM413	TIP (packages with G40 gun)	1
12	AAMxxx	TIP OPTION (packages with G40 gun)	1
13	512351	ADAPTER, 1/4 nptm x 3/8 nptf	1
14	256390	AIR HOSE, gun, (all AA packages)	1
15	256410	HOPPER (includes Parts 17, 19, and 20)	1
16	105332	NUT, lock, M5 x 0.08 (included with Parts 2 and 49)	2
17	-----	TUBE, inlet, hopper (included with Part 15)	1
18	-----	CLIP, hose (all AA packages), *see page 46 for packages of 10*	7
19	-----	O-RING, hopper (included with Part 15)	1
20	------	SCREEN, hopper (included with Part 15)	1
22	239069	HOSE, whip (AA packages only)	1
23	111799	SCREW, M8 x 16 (included with Parts 49, 53, and 54)	
		Wall mount	6
		Cart mount	4
37	166846	ADAPTER, for whip hose (AA packages only)	1
38	-----	SWITCH, reed (included with Part 3a)	1
39	-----	SCREW, switch (included with Part 3a)	1
40	-----	CLAMP, hose (included with Part 3a)	2
41	256425	VALVE, drain, stainless steel (includes Parts 44 and 45)	1
44	-----	COUPLING, hose, drain (included with Part 41)	1
45	-----	HOSE, drain (included with Part 41)	1
48	238909	WIRE, grounding assembly	1
49	24E883	BRACKET, air control, wall mount only (includes Parts 16 and 23)	1
53	289694	CART MOUNTING KIT; *see page 43* (G45Cxx models only)	1
54	24A578	WALL MOUNTING KIT; *see page 43* (G45Wxx models only)	1

----- Not sold separately.

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

G48xxx Models

This list includes all possible parts for G48xxx packages. See page 14 to check whether a part is included in your particular package.

Ref.	Part	Description	Qty.
1		Pump Assembly, *see Manual 312794*	1
	W48CAS	M18LN0 x LW075A	
	W48CBS	M18LT0 x LW075A	
2		PANEL, air controls (includes 3b, 16, 30, and 31)	1
	24A583	pump only, 100 psi; *see page 45*	
	24A584	pump and gun, 85 psi; *see page 44*	
3a	24A576	DATATRAK, assembly; *see manual 313541*	1
3b	-----	INSERT, panel (Included with Part 2)	1
4	256423	HOSE, suction (includes Part 5)	1
5	187146	STRAINER (included with Part 4)	1
6	24A587	FILTER, fluid	1
7	-----	FITTING, union (included with Part 6)	1
8	189018	SWIVEL, fluid hose (packages with AA gun)	1
9		HOSE, fluid (packages with gun)	1
	H52525	XTR 5 with RAC tip	
	24A446	G40 and G40 with RAC tip	
10		GUN	1
	XTR504	XTR 5 with RAC tip	
	24C855	G40	
	24C857	G40 with RAC tip	
11	AAM413	TIP (packages with G40 gun)	1
12	AAMxxx	TIP OPTION (packages with G40 gun)	1
13	512351	ADAPTER, 1/4 nptm x 3/8 nptf	1
14	256390	AIR HOSE, gun (all AA packages)	1
15	256410	HOPPER (includes Parts 17, 19, and 20)	1
16	105332	NUT, lock, M5 x 0.08 (included with Parts 2 and 49)	2

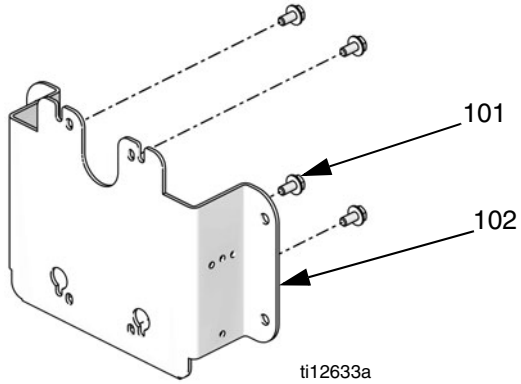
Ref.	Part	Description	Qty.
17	-----	TUBE, inlet, hopper (included with Part 15)	1
18	-----	CLIP, hose (all AA packages), *see page 46 for packages of 10*	7
19	-----	O-RING, hopper (included with Part 15)	1
20	-----	SCREEN, hopper (included with Part 15)	1
22	239069	HOSE, whip (AA packages only)	1
23	111799	SCREW, M8 x 16 (included with Parts 49, 53, and 54)	
		Wall mount	6
		Cart mount	4
37	166846	ADAPTER, for whip hose (AA packages only)	1
41	256425	VALVE, drain, stainless steel (includes Parts 44 and 45)	1
44	-----	COUPLING, hose, drain (included with Part 41)	1
45	-----	HOSE, drain (included with Part 41)	1
48	238909	WIRE, grounding assembly	1
49	24E883	BRACKET, air control, wall mount only (includes Parts 16 and 23)	1
53	289694	CART MOUNTING KIT; *see page 43* (G48Cxx models only)	1
54	24A578	WALL MOUNTING KIT; *see page 43* (G48Wxx models only)	1

----- *Not sold separately.*

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

Kits

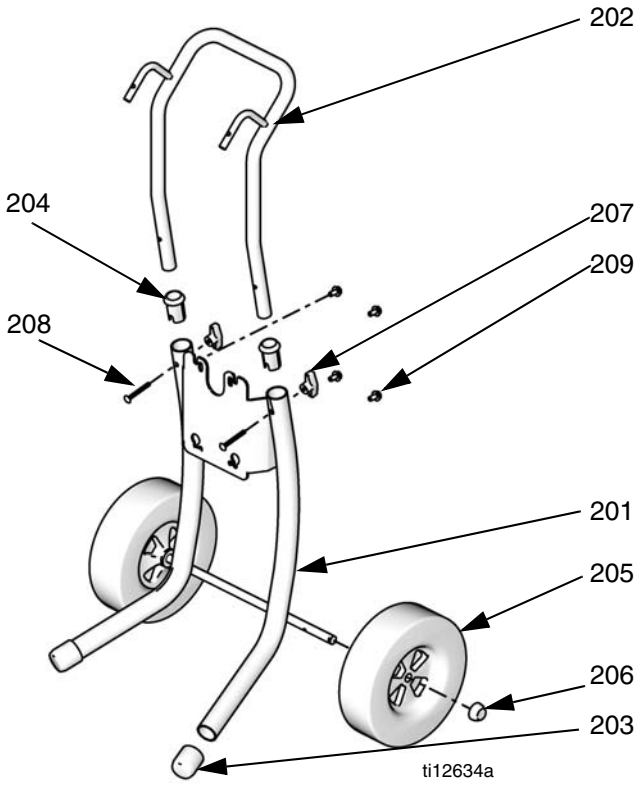
Wall Mount Kit 24A578



Ref.	Description	Qty.
101	SCREW, cap, M8 x 1.25	4
102	PLATE, wall mount	1

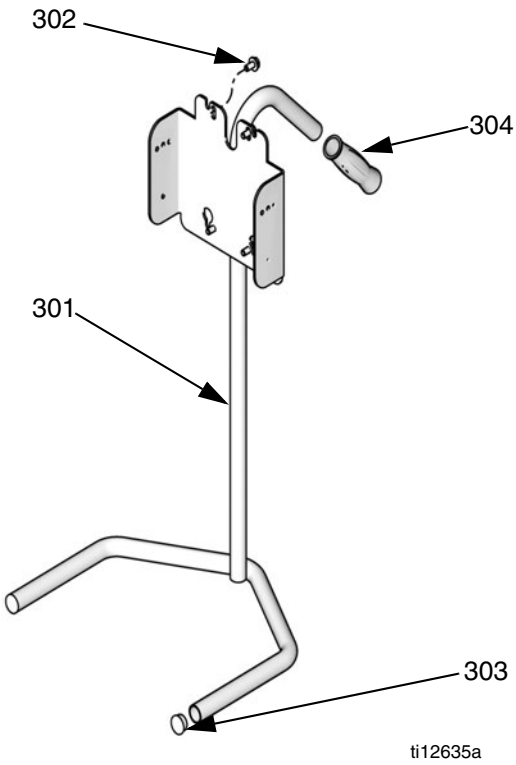
NOTE: Air Control Mounting Kit 24E883 (see page 46) also is required for wall mounting a package that has a control panel.

Cart Mount Kit 289694



Ref.	Part	Description	Qty.
201	-----	CART, frame	1
202	-----	HANDLE, cart	1
203	15C871	CAP, leg	2
204	-----	SLEEVE, cart handle	2
205	119451	WHEEL, semi-pneumatic	2
206	119452	CAP, hub	2
207	115480	KNOB, t-handle	2
208	116630	SCREW, carriage	2
209	111799	SCREW, cap, M8 x 1.25	4

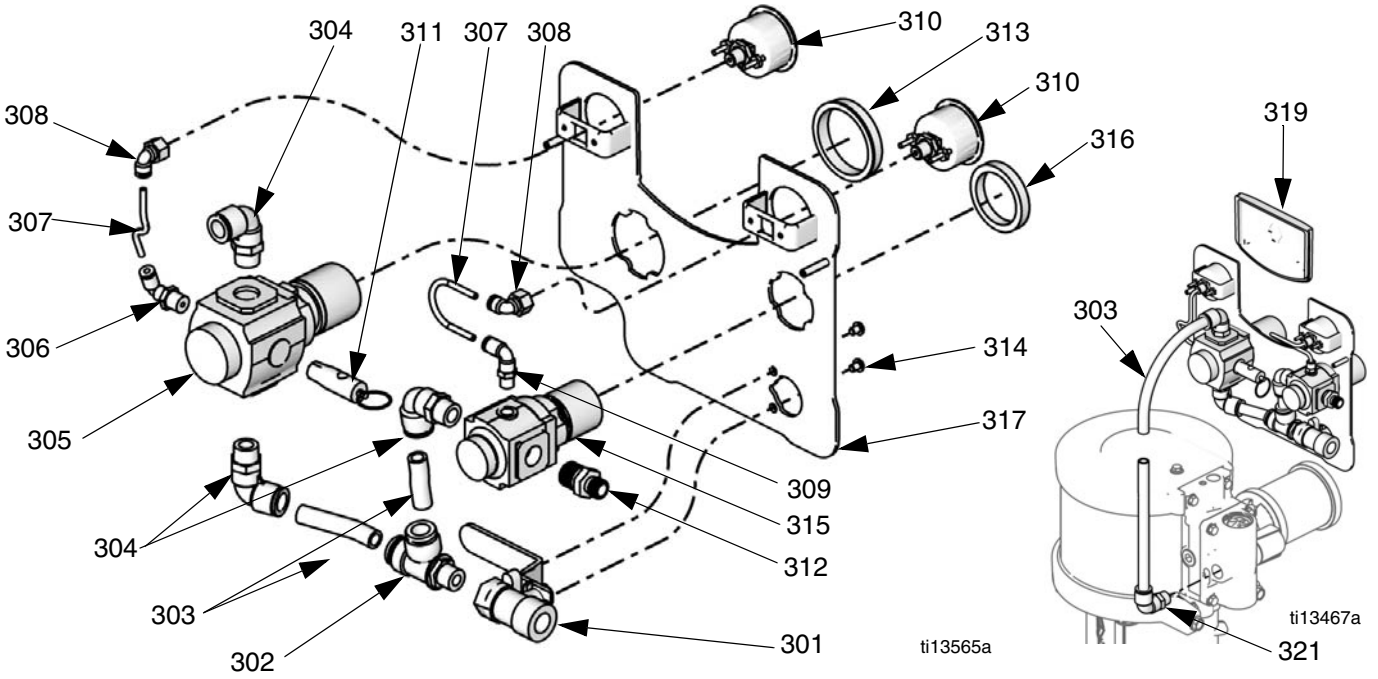
Stand Mount Kit 24A577



Ref.	Part	Description	Qty.
301	-----	FRAME	1
302	111799	SCREW, cap, M8 x 1.25	4
303	105521	PLUG, tubing	2
304	108063	GRIP, handle	1

NOTE: Air Control Mounting Kit 24E883 (see page 46) also is required for stand mounting a package that has a control panel.

Pump and Gun Control Panel Kits



M12xxx and M18xxx air motors

Kits 24A581, 24A582, and 24A584

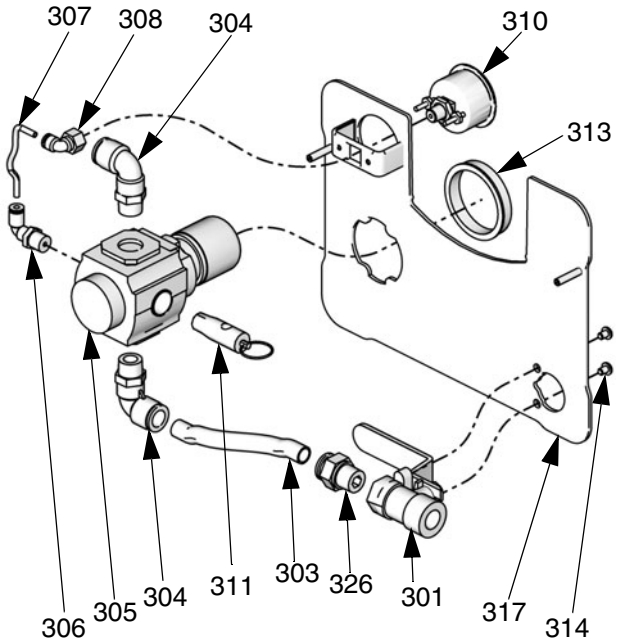
Ref.	Part	Description	Qty.
301	114362	VALVE, ball	1
302	15T643	SWIVEL, tee, 3/8 npt(m) x 1/2T	1
303	-----	TUBE, 1/2 OD, cut to fit, order Tubing Kit 24D496	1.3 ft.
304	121212	ELBOW, swivel, 1/2T x 3/8 npt(m)	3
305	15T536	REGULATOR, air, pump, 3/8 npt	1
306	-----	ELBOW, swivel, 5/32 T x 1/4 npt	1
307*	-----	TUBE, black, cut to fit, order Tubing Kit 24D496	4 in.
308	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		VALVE, safety	1
	113498	Kit 24A581	
	116643	Kit 24A582	
	120306	Kit 24A584	
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

M02xxx and 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	2
307	-----	TUBE, black, cut to fit, order Tubing Kit 24D496	4 in.
308	15T498	SWIVEL, 90°, 5/32T x 1/8 npt(f)	2
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	105332	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

Pump Only Control Panel Kits



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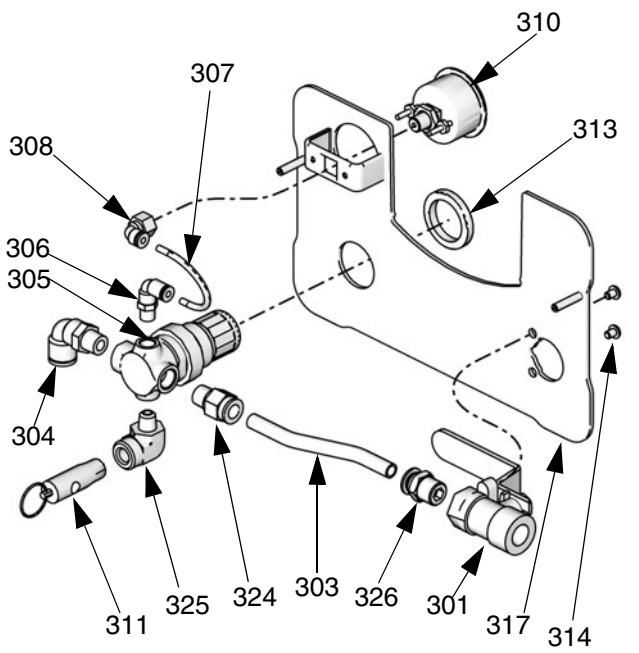

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M07xxx, M12xxx, and M18xxx air motors

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, safety	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 44)	1
320	105332	NUT, lock (not shown)	2
321	-----	ELBOW, 1/2T x 1/2 npt (see inset illustration on page 44)	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

M02xxx and 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	15T499	REGULATOR, air, 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)	1
310	15T500	GAUGE, pressure	1
311	113498	VALVE, safety	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 44)	1
320	105332	NUT, lock (not shown)	2
321	121141	ELBOW, swivel, 3/8T x 1/4 npt(m) (see inset illustration on page 44)	1
322	-----	COVER, lens, 12 sticker sheet (not shown), order Kit 24A540 for 5 sheets	1
324	-----	FITTING, straight, 3/8T x 1/4 npt(m)	1
325	-----	ELBOW, 1/4 npt(f) x 1/8 npt(m)	1
326	-----	FITTING, straight, 3/8T x 3/8 npt(m)	1

DataTrak

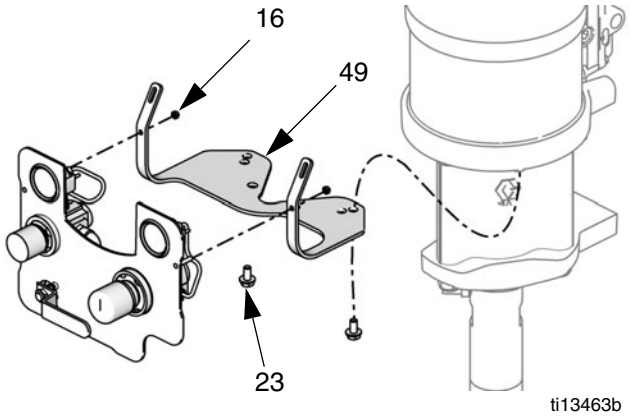
NOTE: See DataTrak manual, 313541, for all DataTrak related part numbers and kit information, including the reed switch and solenoid.

Hopper Kit 256410

Includes hopper (15), inlet tube (17), o-ring (19), screen (20), and fitting (21, 25cc pumps only).

Air Control Mounting Kit 24E883, Wall and Stand

Kit 24E883 includes bracket (49), two hex nuts (16), and two screws (23). Use either set of mounting holes.



5-Gallon Suction Hose Kits

Includes suction hose (4) and strainer (5).

Kit	Packages	Wall/Cart
256420	10:1, 15:1, 30:1 -- M02xxx and M04xxx air motors only	Both
256421	23:1, 30:1 (M12xxx X L075xx), 36:1, 45:1, 48:1	Cart
256422	15:1 (M12xxx X L150xx), 18:1, 24:1, 28:1	Cart
256423	23:1, 30:1 (M12xxx X L075xx), 36:1, 45:1, 48:1	Wall
256424	15:1 (M12xxx X L150xx), 18:1, 24:1, 28:1	Wall

256426 - Package of 10 strainers (5) for Kit 256420.

55-Gallon Suction Hose Kits

Includes suction hose, bung adapter, and strainer.

24A954 - 3/4 in. hose

24B598 - 1 in. hose

PTFE Suction Hose Kits

For pumping acid materials that are compatible with PTFE. Includes suction hose, swivel, and strainer.

Kit	Description	Wall/Cart
24B337	3/4 in. hose, PTFE lined, with swivel elbow	Cart
24B338	1 in. hose, PTFE lined, with swivel elbow	Cart
24B424	3/4 in. hose, PTFE lined, with straight swivel	Wall
24B425	1 in. hose, PTFE lined, with straight swivel	Wall
24J315	3/8 in. hose, 1/2 in. connection, PTFE lined, with straight swivel	Wall or Cart*

** Cart mount requires separate fitting, Part Number 114874.*

Drain Valve Kit 256425

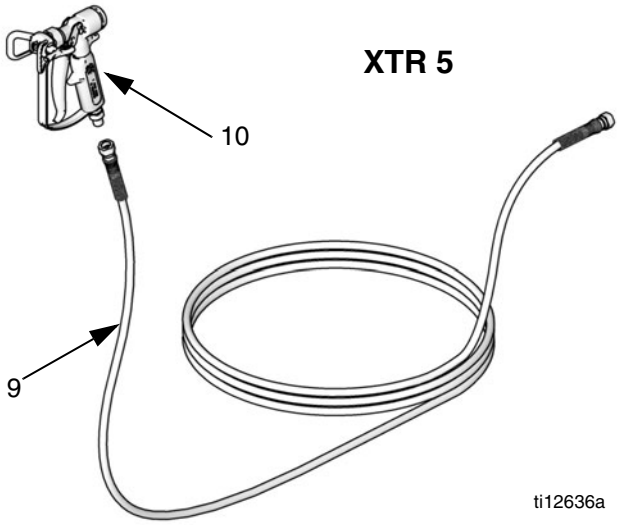
Includes drain valve (41), coupling (44), and hose (45).

Reinforced PTFE V-Packing Kits

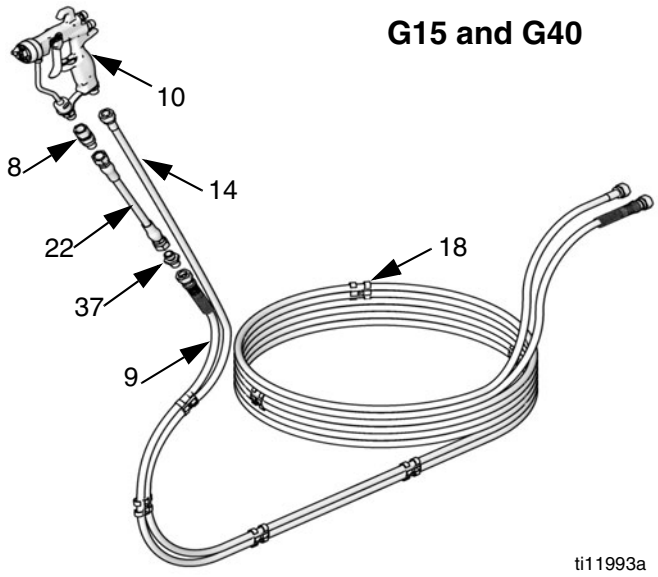
NOTE: See manual 312792 for information related to optional kits with reinforced PTFE seals for use with materials that cause chemical compatibility concerns with UHMWPE, such as acid catalyst materials.

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.



Ref.	Part	Description	Qty.
9		HOSE, fluid	1
	241812	G10xxx-G30xxx; exceptions listed next in this table; 25 ft (7.6 m), 3300 psi (22.7 MPa, 227 bar) maximum working pressure	
	H52525	G30W57-G30W60, G48xxx; 25 ft (7.6 m), 5600 psi (38.6 MPa, 386 bar) maximum working pressure	
	24B562	G30C13 and G30C57; 50 ft (15.2 m), 3300 psi (22.7 MPa, 227 bar) maximum working pressure	
	H42525	G36xxx-G45xxx; 25 ft (7.6 m); 4500 psi (30.1 MPa, 310 bar) maximum working pressure	
10	XTR501	GUN, XTR	1
	XTR504	GUN, XTR with RAC tip	1



Ref.	Part	Description	Qty.
8	189018	SWIVEL, fluid hose	1
9		HOSE, fluid	1
	241812	G10xxx-G30xxx, 25 ft (7.6 m), 3300 psi (22.7 MPa, 227 bar) maximum working pressure	
	24A446	G36xxx-G48xxx, 23 ft (7 m); 4100 psi (28.3 MPa, 283 bar) maximum working pressure	
10	24C855	GUN, G40	1
	24C857	GUN, G40 with RAC tip	1
	24C853	GUN, G15	1
11	AAM413	TIP	1
12	AAMxxx	TIP, option, see gun manual	1
14	256390	HOSE, air	1
18	-----	CLIP, hose; order Kit 24A588 for package of 10	7
22	239069	HOSE, whip (G36xxx-G48xxx packages only)	1
37	166846	ADAPTER, for whip hose	1

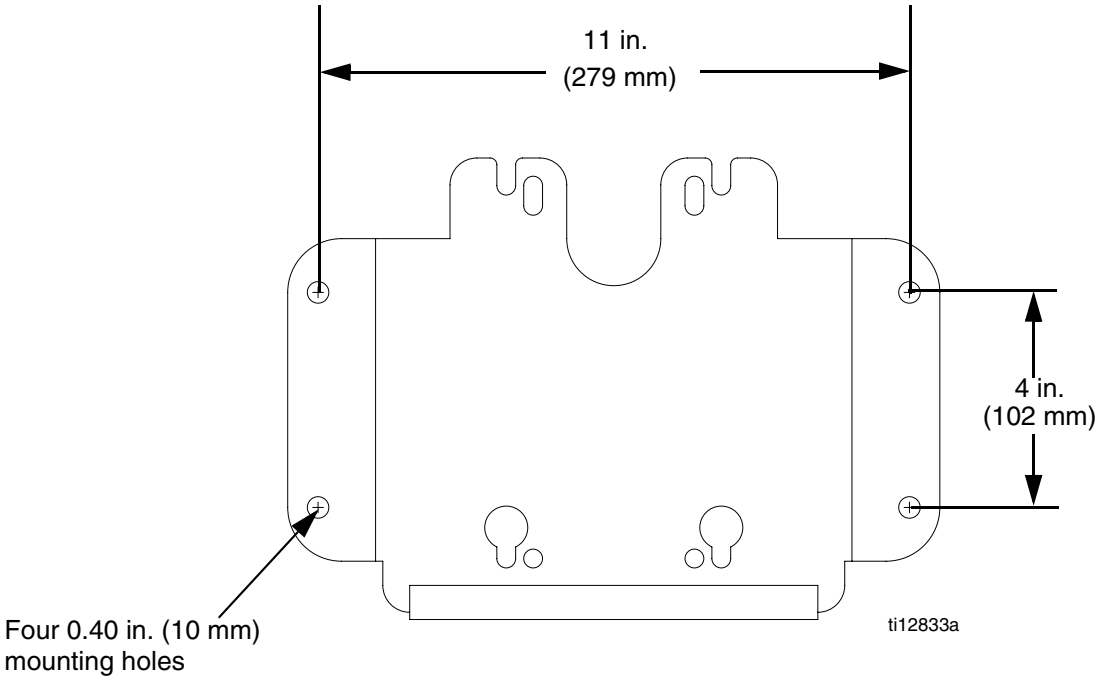
50-Foot Air/Fluid Hose Kit 24A955

Optional 50-foot coupled fluid/air hose with 20 clips. Use with G10xxx-G30xxx models only (3300 psig maximum fluid working pressure).

50-Foot Fluid Hose 24A413

Optional 50-foot hose, 5600 psi (38.6 MPa, 386 bar) maximum working pressure.

Wall Bracket Mounting Dimensions



Technical Data

Maximum fluid working pressure	See **Models** table on page 5.
Maximum pump air inlet pressure	100 psi (0.7 MPa, 7.0 bar)
Maximum gun air inlet pressure	100 psi (0.7 MPa, 7.0 bar)
Ratio	See **Models** table on page 5.
Ambient air temperature range	35°F–120°F (2°C–49°C)
Maximum fluid temperature	160°F (71°C)
Sound data	See Technical Data in air motor manual 312796.
Wetted parts	Displacement pump: Stainless steel, tungsten carbide with 6% nickel, UHMWPE, PTFE Spray gun: See Manual 3A0149 (AA guns) or Manual 312145 (XTR guns). Fluid hoses: nylon Suction assembly: stainless steel, nylon Fluid filter: See manual 307273. Drain valve: stainless steel, nylon

Package Weights

Ratio, Motor, Displacement Pump	Weight in lb (kg)				
	Mounted Pump*	Mounted pump* + siphon kit	Mounted pump + siphon kit + fluid filter	Mounted pump* + siphon kit or hopper + gun and hoses	Mounted pump* + siphon kit or hopper + gun and hoses + fluid filter
Cart Mount					
10:1, M04xxx, LW075A	68 (31)	69 (32)	----	76 (35)	81 (37)
15:1, M02xxx, LW025A	53 (24)	54 (25)	----	62 (29)	67 (31)
15:1, M04xxx, LW050A	66 (30)	67 (31)	----	75 (34)	79 (36)
15:1, M12xxx, LW150A	100 (45)	103 (47)	109 (49)	-----	113 (51)
18:1, M12xxx, LW125A	100 (45)	104 (47)	109 (49)	-----	113 (51)
23:1, M12xxx, LW100A	98 (45)	101 (46)	105 (48)	-----	111 (50)
24:1, M18xxx, LW150A	102 (46)	-----	111 (50)	-----	116 (53)
28:1, M18xxx, LW125A	102 (46)	-----	111 (50)	-----	116 (53)
30:1, M04xxx, LW025A	60 (28)	61 (28)	-----	68 (31)	73 (34)
30:1, M12xxx, LW075A	94 (43)	98 (45)	104 (47)	-----	108 (49)
36:1, M18xxx, LW100A	100 (45)	-----	108 (49)	-----	114 (52)
45:1, M12xxx, LW050A	92 (42)	96 (43)	101 (46)	101 (46)	106 (48)
48:1, M18xxx, LW075A	97 (44)	-----	105 (48)	106 (48)	110 (50)
Wall Mount					
10:1, M04xxx, LW075A	42 (19)	43 (20)	-----	48 (22)	53 (24)
15:1, M02xxx, LW025A	27 (12)	28 (13)	-----	33 (15)	38 (17)
15:1, M04xxx, LW050A	40 (18)	41 (19)	-----	46 (21)	51 (23)
15:1, M12xxx, LW150A	73 (33)	-----	81 (37)	-----	86 (39)
18:1, M12xxx, LW125A	72 (33)	-----	81 (37)	-----	86 (39)
23:1, M12xxx, LW100A	70 (32)	-----	78 (35)	-----	83 (38)
24:1, M18xxx, LW150A	76 (35)	-----	84 (38)	-----	89 (40)
28:1, M18xxx, LW125A	75 (34)	-----	83 (38)	-----	87 (39)
30:1, M04xxx, LW025A	34 (15)	35 (16)	-----	40 (18)	44 (20)
30:1, M12xxx, LW075A	67 (30)	-----	75 (34)	-----	80 (36)
36:1, M18xxx, LW100A	73 (33)	-----	81 (37)	-----	87 (39)
45:1, M12xxx, LW050A	65 (29)	-----	73 (33)	-----	80 (36)
48:1, M18xxx, LW075A	70 (32)	-----	78 (35)	-----	84 (38)
Stand Mount					
15:1, M02xxx, LW025A	29 (13)	30 (14)	-----	36 (16)	41 (19)
30:1, M04xxx, LW025A	36 (16)	37 (17)	-----	43 (20)	48 (22)
15:1, M04xxx, LW050A	42 (19)	43 (20)	-----	49 (22)	54 (25)

** Includes air controls.*

----- This component configuration is not offered for these models.

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Original instructions. This manual contains English. MM 312797

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