

Topper Units

306556T

ΕN

Grease dispense units with pneumatic pump elevator for easy drum replacement. For professional use only.

Model No. 226013

50:1 Ratio Fire-ball[®] Pump 5000 psi (34.5 MPa, 345 bar) Maximum Working Pressure 100 psi (0.68 MPa, 6.89 bar) Maximum Air Pressure

Model No. 226018

50:1 Ratio President[®] Pump 4000 psi (27.6 MPa, 276 bar) Maximum Working Pressure 80 psi (0.55 MPa, 5.5 bar) Maximum Air Pressure

Model No. 244637

75:1 Ratio President[®] Pump 4000 psi (27.6 MPa, 276 bar) Maximum Working Pressure 80 psi (0.55 MPa, 5.5 bar) Maximum Air Pressure

Model No. 204490

without pump or hose kit

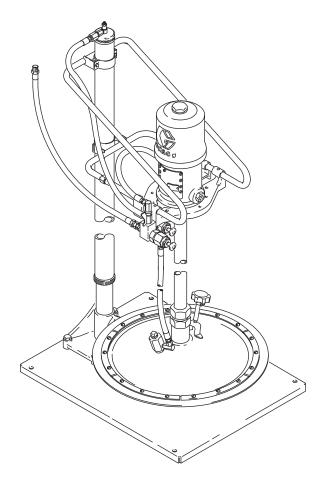
Model No. 25P544

36:1 Ratio GT 750 Pump 3600 psi (24.8 MPa, 248.2 bar) Maximum Working Pressure 100 psi (0.68 MPa, 6.89 bar) Maximum Air Pressure



Important Safety Instructions

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



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Warnings

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

A WARNING
 SKIN INJECTION HAZARD High-pressure fluid from dispensing device, 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 dispensing device at anyone or at any part of the body. Do not put your hand over the fluid outlet. Do not stop or deflect leaks with your hand, body, glove, or rag. Follow the Pressure Relief Procedure when you stop dispensing and before cleaning, checking, or servicing equipment. Tighten all fluid connections before operating the equipment. Check hoses and couplings daily. Replace worn or damaged parts immediately
 FIRE AND EXPLOSION HAZARD When flammable fluids are present in the work area, such as gasoline and windshield wiper fluid, be aware that flammable fumes can ignite or explode. To help prevent fire and explosion: Use equipment only in well-ventilated area. Eliminate all ignition sources, such as cigarettes and portable electric lamps. Ground all equipment in the work area. Keep work area free of debris, including rags and spilled or open containers of solvent and gasoline Do not plug or unplug power cords or turn lights on or off when flammable fumes are present. Use only grounded hoses. Stop operation immediately if static sparking occurs or you feel a shock. Do not use equipment until you identify and correct the problem. Keep a working fire extinguisher in the work area.

\land	EQUIPMENT MISUSE HAZARD
	Misuse can cause death or serious injury.
What ber / Pe	 Do not operate the unit when fatigued or under the influence of drugs or alcohol. Do not exceed the maximum working pressure or temperature rating of the lowest rated system component. See Technical Specifications in all equipment manuals. Use fluids and solvents that are compatible with equipment wetted parts. See Technical Specifications in all equipment manuals. Read fluid and solvent manufacturer's warnings. For complete information about your material, request Safety Data Sheets (SDSs) from distributor or retailer. Turn off all equipment and follow the Pressure Relief Procedure when equipment is not in use. Check equipment daily. Repair or replace worn or damaged parts immediately with genuine manufacturer's replacement parts only. Do not alter or modify equipment. Alterations or modifications may void agency approvals and create safety hazards. Make sure all equipment is rated and approved for the environment in which you are using it. Use equipment only for its intended purpose. Call your distributor for information. Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces. Do not kink or over bend hoses or use hoses to pull equipment. Keep children and animals away from work area. Comply with all applicable safety regulations.
	MOVING PARTS HAZARD
	Moving parts can pinch, cut or amputate fingers and other body parts.
MPa / bar / PSI	 Keep clear of moving parts. Do not operate equipment with protective guards or covers removed. Equipment can start without warning. Before checking, moving, or servicing equipment, follow the Pressure Relief Procedure and disconnect all power sources.
	TOXIC FLUID OR FUMES HAZARD
	Toxic fluids or fumes can cause serious injury or death if splashed in the eyes or on skin, inhaled, or swallowed.
	 Read Safety Data Sheets (SDSs) 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 Wear appropriate protective equipment when in the work area to help prevent serious injury, including eye injury, hearing loss, inhalation of toxic fumes, and burns. Protective equipment includes but is not limited to:
	 Protective eyewear, and hearing protection. Respirators, protective clothing, and gloves as recommended by the fluid and solvent manufacturer.

Installation

Grounding



The equipment must be grounded to reduce the risk of static sparking. Static sparking can cause fumes to ignite or explode. Grounding provides an escape wire for the electric current.

Pump: use ground wire and clamp, as shown in FIG. 1.

Air and fluid hoses: use only electrically conductive hoses.

Air compressor: follow manufacturer's recommendations.

Dispense valve: ground through connection to a properly grounded fluid hose and pump.

Fluid supply container: follow local code.

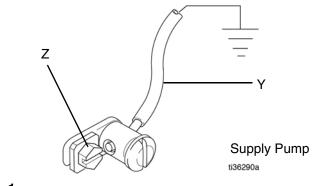
Truck bed or platform: follow local code.

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.

Ground the Pump

- 1. Remove the ground screw (Z) and insert through the eye of the ring terminal at the end of ground wire (Graco P/N 238909, user supplied) (Y), see FIG. 1.
- 2. Fasten the ground screw back into the pump and tighten securely.
- 3. Connect the other end of the ground wire to a true earth ground (FIG. 1).





Pressure Relief Procedure



Follow the Pressure Relief Procedure whenever you see this symbol.



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

- 1. Close the supply pump's bleed-type master air valve (required in this system) (FIG. 2).
- 2. Open the air supply ball valve (FIG. 2). The handle will be in line with the valve body.
- 3. Hold a metal part of the grease dispensing valve firmly to a grounded metal waste container and open the dispensing valve until the pressure is fully relieved.
- 4. If you suspect the dispense valve tip or hose is clogged, or that pressure has not been fully relieved:
 - a. VERY SLOWLY loosen the hose end coupling to relieve pressure gradually.
 - b. Loosen the nut or the coupling completely.
 - c. Clear the obstruction in the hose or dispense valve tip.

Typical Installation

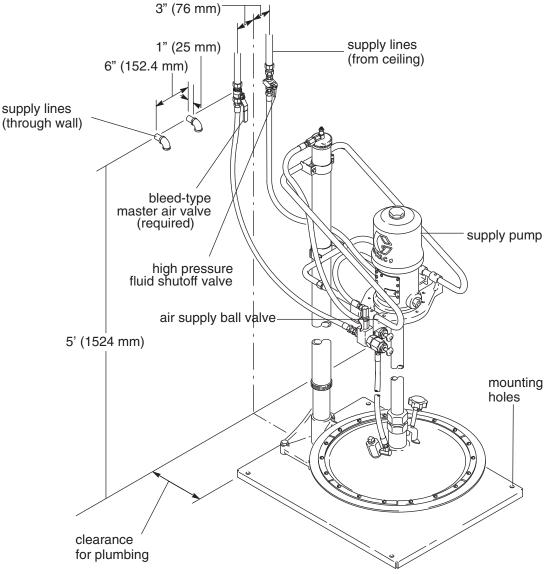


FIG. 2: Typical Installation

The Typical Installation (shown in FIG. 2), is only a guide for selecting and installing this system. It is not an actual system design.

Position the Elevator

- 1. Position the elevator in an area where the ceiling is at least 8 ft. (2.6 m) in height. The elevator when fully extended is 90 in (2.4 m).
- 2. Provide adequate space in front of the elevator for changing drums.
- 3. Provide adequate space along the sides and back of the elevator for plumbing.

Mount the Elevator

 Secure the elevator base (A) to the mounting base (102) using screws (104), lock washers (103), and nuts (105) (Fig. 3).

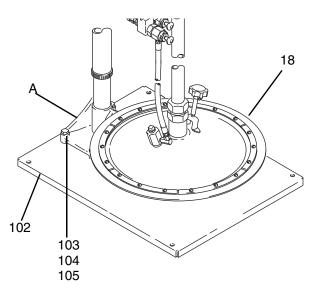


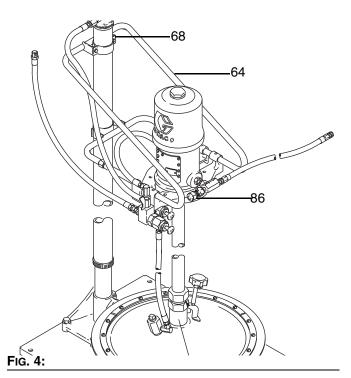
FIG. 3:

- 2. Bolt the mounting base (102) to the floor, using the four predrilled mounting holes for stability (FIG. 3).
- 3. Verify that the elevator is level. If not, loosen one or two of the screws (104) on the elevator base (A) and place shims underneath the base until level.
- 4. Place the inductor plate (2, 18, 22 or 116) on the mounting base (102) (FIG. 3).
- 5. Loosen the screws (68) of both support brackets (83).
- 6. Slide the support (64) down to allow installation of the pump into the inductor plate.
- 7. Tighten the bracket screws (68) lightly.

Mount the Pump

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1. Position the pump mounting bracket (86) then tighten the set screws to secure in place (FIG. 4).



- 2. Remove the inductor plate nut (11, 24 or 114), the locking ring (8, 23 or 115) and the o-ring (9) (FIG. 5).
- Using this order, slide the inductor plate nut (11, 24 or 114), the locking ring (8, 23 or 115), and the o-ring (9) on the pump riser tube (FIG. 5).

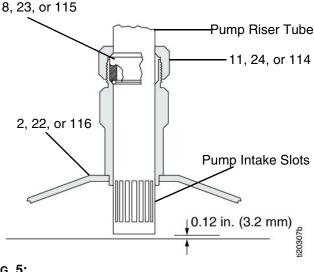


Fig. 5:

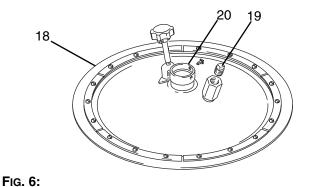
4. Loosen the pump support brackets (83) and raise the support (64) until it meets the pump base (FIG. 8).

- 5. Secure the pump to the pump mounting brackets (86) from the underside with screws (68).
- 6. Adjust the inductor plate on the pump so the pump intake slots are located just below the bottom of the inductor plate cone (see FIG. 5).
- 7. Tighten the lock nut (11, 24 or 114) securely.

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Refer to FIG. 6 for Steps 1-3, below.

- 1. Lubricate the o-ring (20) in the inductor plate (18) with light, waterproof grease.
- 2. Guide the pump intake valve as far as possible into the inductor plate, then tighten the set screws (19).



- 1 Loopon the numer summaria have
- 4. Loosen the pump support brackets (83) and raise the support (64) until it meets the pump base.
- 5. Secure the pump to the pump support mounting bracket (86) from the underside with screws (68).

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Refer to FIG. 5 and FIG. 7 for Steps 1-6 below.

- 1. Position the pump mounting brackets (86), then tighten the set screws to secure in place.
- 2. Mount the bung adapter plate (117) to the pump mounting brackets (86) using cap hex screws (118).

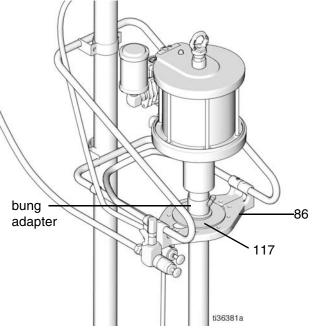


FIG. 7:

- 3. Remove the inductor plate nut (114), ferrule (115) and the o-ring (113) (FIG. 5).
- 4. Lower the pump tube through the bung adapter plate (117).
- 5. Using this order, slide the inductor plate nut (114), ferrule (115), and the o-ring (113) on the pump riser tube (FIG. 5).
- 6. Adjust the inductor plate on the pump so that the pump intake slots are located just below the bottom of the inductor plate cone (see FIG. 5).
- 7. Tighten the lock nut (114) securely.
- Loosed the pump support clamps and raise the support (64) until the bung adapter plate (117) meets the bung adapter on the pump tube.
- 9. Turn the bung adapter into the bung adapter plate until tight.

Secure Pump Position

Refer to FIG. 5 and FIG. 8 for the following steps.

- 1. Adjust the pump height by sliding the pump support (64) up or down, until the pump intake is 0.12 in. (3.2 mm) above the mounting base (102, FIG. 3).
- 2. Tighten the screws (68) on the lower pump bracket (83).
- 3. Slide the upper pump support bracket (83) up or down (the pump support (64) tubing flexes slightly) until the pump is in a true vertical position.
- Tighten the screws (68) on the upper pump bracket. 4.

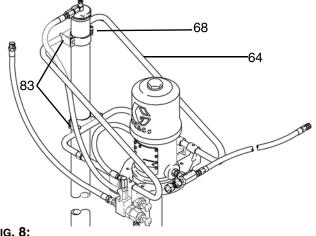


FIG. 8:

Installation of Hoses and Valves

NOTE: Use thread sealant on all male threads except at the swivel unions.

Refer to FIG. 9 and FIG. 17 for the following steps.

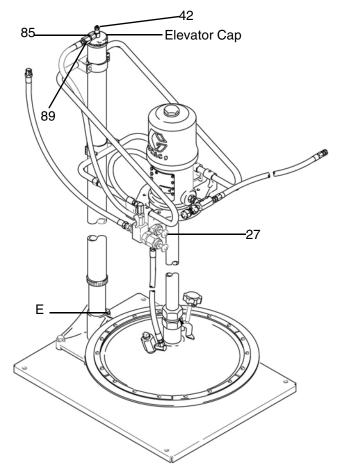
- 1. Remove the plug from the top of the elevator cap and screw it into the air inlet (E) in the elevator base (FIG. 9).
- 2. Screw the restrictor valve assembly (42) into the elevator cap.
- 3. Screw the 1/4 x 1/8 npt adapter (85) into the restrictor valve (FIG. 9).
- Install the 1/4 x 3/8 npt adapter (89) (FIG. 9). 4.

5. Connect one end of the 36 in. (914 mm) hose into the adapter and connect the other end of the hose into the elevator valve's (27) union (82) (FIG. 9).



The bleed-type master air valve is required in the system to relieve air trapped between this valve and the pump after the air is shut off. Trapped air can cause the pump to cycle unexpectedly and cause serious injury, including amputation and skin injection. Position the valve close to the pump.

- 6. Route the hose inside the arms of the pump support (64) (FIG. 8).
- 7. Install user-supplied bleed-type master air valve into the pump's air supply line.





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- 8. Attach the hex nipple (115 or 99) from the outlet hose kit (91 or 97) to the pump outlet. (See **Parts**, page 18).
- Connect the kit's swivel union (96) to the adapter with the opening in the valve (94) facing downward. (See **Parts**, page 18).
- 10. Install a user-supplied pressure rated fluid shutoff valve (not required) on the fluid supply line to control the flow of fluid from the pump.
- 11. Finish assembling the hoses and fittings, as shown on **Parts**, page 18.

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- 8. Install user-supplied pressure rated fluid outlet hose to pump outlet.
- 9. Install a user-supplied pressure rated fluid shutoff valve (not required) on the fluid supply line to control the flow of fluid from the pump.
- 10. Finish assembling the hoses and fittings, as shown on **Parts**, page 18.

Operation



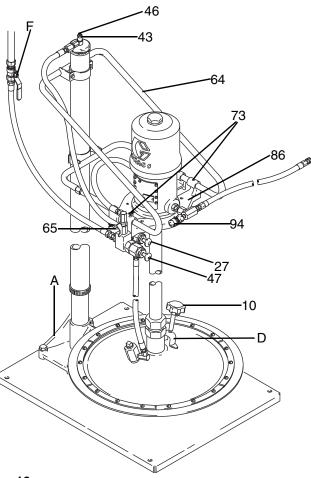
NOTICE

Always close the ball valve (65) when the inductor plate reaches the bottom of the drum, indicating the drum is empty. Allowing the pump to run without fluid will damage the pump.

Installation of Drum

Refer to FIG. 10 for the following instructions.

- 1. Perform Pressure Relief Procedure, page 6.
- 2. Close the ball valve (65). When closed, the handle will be at a 90° angle to the valve body.
- 3. Open the bleed-type master air valve (F).
- 4. Open the inductor plate vent by turning the knob (10) counter-clockwise.
- 5. Pull open the elevator valve (27) to raise the elevator.





NOTE: To adjust the elevator speed, loosen the jam nut (43). Turn the restrictor valve screw (46) clockwise to decrease speed, counter-clockwise to increase speed. Tighten the jam nut once the desired speed has been set.

- 6. Center an opened 400 lb. (181.4 kg) drum under the inductor plate so that the drum bottom touches the elevator base (A).
- 7. Make the top of the fluid concave by scooping fluid from the center to the sides of the container.
- 8. Loosen the setscrews (73) holding the pump mounting brackets (86) to the support (64). Align the pump and inductor plate with the drum.



Keep fingers and hands away from the sides of the drum and the inductor plate to avoid pinching when raising and lowering the pump.

- 9. Push in the elevator valve (27) to lower the pump while guiding the inductor plate into the drum.
- 10. Press down on the pump, rocking it back and forth, to seat the inductor plate. This helps eliminate any air trapped underneath the plate. Continue this action until fluid appears at the vent opening (D).
- 11. Verify that the pump is aligned vertically, then tighten the set screws (73).
- 12. Close the inductor plate vent by turning the knob (10) clockwise.

13. For Models 226013, 226018, and 244637 only:

- a. Open the bleeder valve (94) at the pump outlet by turning the thumbscrews counter-clockwise.
- b. Open the ball valve (65) until all of the air trapped in the pump, and under the plate, is pumped through the bleeder valve.
- c. Close the ball valve (65) and the bleeder valve (94).
- d. Regulate the pump speed with the ball valve (65) handle.
- **14. For all Models:** Always use the lowest possible pump pressure necessary for good delivery. Higher pressures causes premature pump wear and usually do not produce better results.

Removal of a Drum



- Perform Pressure Relief Procedure, page 6 1.
- Close the ball valve (65). When closed, the handle 2. will be at a 90° angle to the valve body.
- 3. Open the bleed-type master air valve (F).



Foot Crush Hazard

Using the elevator valve before the inductor plate is out of the drum can lift the drum, creating a potential foot crush hazard.

Use only the air-assist valve to make the inductor plate rise to the top of the drum.

- 4. Press in and hold the air-assist valve (47) until the inductor plate rises above the drum. Release the valve (FIG. 10, page 12).
- 5. Open the elevator valve (27) then raise the elevator to full height (FIG. 10, page 12).

NOTE: If air pressure is lost when reaching the drum ribs, continue holding the air-assist valve and slowly pull out the elevator valve until the ribs are passed. Then, immediately close the elevator valve to prevent raising the drum off of the floor.

- Remove the drum. 6.
- 7. Move a new drum into position and install (see Installation of Drum, page 12).

NOTE: Lower the pump completely if not immediately installing a new drum.

Maintenance

Refer to FIG. 11 for reference numbers.

NOTE: To avoid contaminating the fluid in the supply container, keep the pump intake an the inductor plate clean during servicing operations. Place the parts on clean paper or rags.

Removal of the Pump



- Remove the drum (see **Removal of a Drum**. page 14).
- 2. Relieve the pressure. See **Pressure Relief Procedure**, page 6.
- 3. Disconnect the air-assist hose (41).

For Model 204490: Loosen the inductor plate set screws (19).

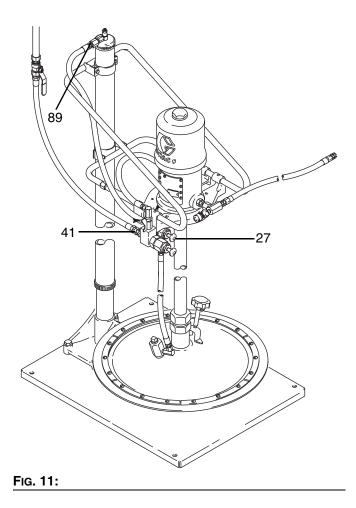
For Models 226013, 226018, and 244637: Unscrew the locking nut (11, 24, or 114), taking note of the number of turns needed.

4. Disconnect and remove the pump from the mounting bracket.

Reinstallation of the Pump

- 1. Connect the pump to the mounting bracket.
- 2. Attach the hoses to the pump.
- 3. Pull the elevator valve (27) to raise the pump.
- 4. Attach the drum. See **Installation of Drum**, page 12.

NOTE: When attaching the pump to the inductor plate, turn the locking nut (11, 24, or 114) the same number of turns as noted in **Removal of the Pump**, Step 3, or until the inductor plate is settled.



End of Product Life

At the end of the product's useful life, dismantle and recycle it in a responsible manner.

- Perform the **Pressure Relief Procedure**, page 6.
- Drain and dispose of fluids according to applicable regulations. Refer to the material manufacturer's Safety Data Sheet.
- Deliver remaining product to a recycling facility.

Troubleshooting



- 1. Follow **Pressure Relief Procedure**, page 6, before checking or repairing the pump.
- 2. Check all possible problems and causes before disassembling pump.

Problem	Cause	Solution
Low flow or air is being sucked into	Open inductor plate vent.	Close the inductor plate.
pump under the inductor plate.	Inductor plate sleeve locking nuts are loose.	Tighten the locking nuts.
	Worn inductor seals.	Replace the seals. See Parts , page 18.
Failure of snap-valve or air-assist valve.	Worn o-rings or seals	Remove valve, place in vise, disassemble and replace parts as needed.

Parts

Elev		0 Inductor Plate Assembly s 17, 25, 90, and 101		Ma Pu Inc
	Parts	, 20, 00, and 101		Re
No.		Description	Qty.	No
17		INDUCTOR PLATE ASSEMBLY See parts on page 19	1	21
25	204461	WISHBONE SUPPORT ASSEMBLY See parts on page 22	′1	25
90	204385	PNEUMATIC ELEVATOR See manual 306287 for parts	1	90
101	205339	ELEVATOR BASE See parts on page 19	1	97
Pum		3 t or, and Inductor Plate Assembly s 1, 25, 89, 90, 91 and 101		10 10
	Part No.	Description	Qty.	Мо
1	204353	INDUCTOR PLATE ASSEMBLY See parts on page 19	1	Pu Inc
25	204461	WISHBONE SUPPORT ASSEMBLY See parts on page 22	1	Re No
89	239888	50:1 RATIO FIRE-BALL PUMP See manual 308883 for parts	1	25
90	204385	PNEUMATIC ELEVATOR See manual 306287 for parts	1	90
91	204467	HOSE KIT See parts on page 24	1	10 10
101	205339	ELEVATOR BASE See parts on page 19	1	10
Pum Inclu		B tor, and Inductor Plate Assembly s 21, 25, 90, 97, 101, and 106		11
Ref No.	Part No.	Description	Qty.	
21	205699	-	1	
25	204461	See parts on page 19 WISHBONE SUPPORT ASSEM-	1	
90	204385	BLY See parts on page 22 PNEUMATIC ELEVATOR	1	
97	205102		1	
101	205339	See parts on page 24 ELEVATOR BASE	1	
106	205395	See parts on page 19 50:1 RATIO PRESIDENT PUMP See manual 306674 for parts	1	

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Pump, Elevator, and Inductor Plate Assembly Includes items 21, 25, 90, 97, 101, and 107

Ref No.	Part No.	Description	Qty.
21	205669	INDUCTOR PLATE ASSEMBLY	1
		See parts on Page 19	
25	204461	WISHBONE SUPPORT ASSEMBLY	′1
		See parts on page 22	
90	204385	PNEUMATIC ELEVATOR	1
		See manual 306287 for parts	
97	205102	HOSE KIT	1
		See parts on page 24	
101	205339	ELEVATOR BASE	1
		See parts on page 19	
107	239730	75:1 RATIO PRESIDENT PUMP	1
		See manual 308777 for parts	
		•	

Model 25P544

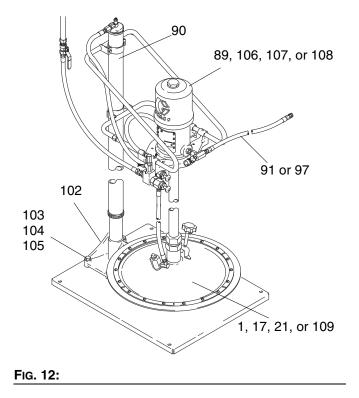
Pump, Elevator, and Inductor Plate Assembly Includes items 25, 90, 101, 108, 109, 112

Ref No.	Part No.	Description	Qty.
25	204461	WISHBONE SUPPORT ASSEMBLY	′ 1
90	204385	See parts on page 22 PNEUMATIC ELEVATOR	1
101	205339	See manual 306287 for parts ELEVATOR BASE	1
108	24W337	See parts on page 19 36:1 RATIO GT 750 PUMP	1
109	25P545	See manual 3A5363 for parts INDUCTOR PLATE ASSEMBLY	1
112	25P547	See parts on Page 19 MOUNTING KIT	1
		See parts on Page 24	

Ref No. 101: Part No. 205339 Elevator Base Assembly Includes items 102 - 105

Ref

No.	Part No.	Description	Qty.
102	205340	BASE, elevator	1
103	100018	LOCKWASHERS, spring, 1/2 in.	4
104	100096	SCREW, hex hd cap, 1/2-13 x 2 in.	4
105	100321	NUT, 1/2-13	4



Ref No. 1: Part No. 204353 Inductor Plate Assembly: 400 lb Drum size Fits 50:1 Fire-Ball In-Line Pump; Includes items 2-16

Ref Bart No Description

No.	Part No	Description	Qty.
2	204502	PLATE, inductor, bare	1
3	100015	NUT, hex, mscr, 1/4-20 UNC-2a	1
4	100021	CAPSCREW, hex hd, 1/4-20 UNC-2a x 1 in.	1
5	104663	PLUG, pipe, 3/4 npt (f)	1
6		SCREW, mach, rd hd, 1/4-20 x 1/2 in	. 18
7	100859	SCREW, headless, full dog point, No. 10-24 x 1/4 in.	1
8	101644	SLEEVE, coupling	1
9	158776	O-RING	1
10	160865	KNOB, vent	1
11	161107	NUT, locking	1
12	161162	SEAL, rubber	1
13		WIPER, inductor plate	1
14		SEGMENT, full barrel	6
15	164432	CAP, vent	1
16	164497	ROD, vent release	1

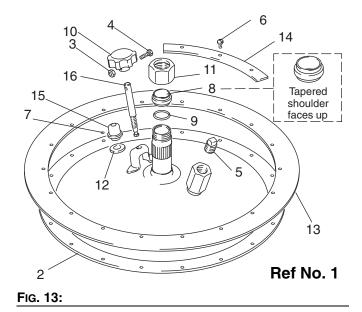
Ref No. 17: Part No. 204405

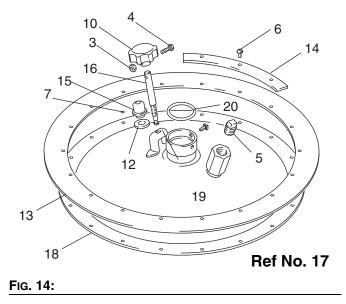
Inductor Plate Assembly: 400 lb Drum size Fits Monarch and President In-Line Pumps Includes items 3 - 7, 10, 12 - 16, 18 - 20

Ref

<u>___</u>

No.	Part No	. Description	Qty.
3	100015	NUT, hex, mscr, 1/4-20 UNC-2a	1
4	100021	CAPSCREW, hex hd, 1/4-20 UNC-2a	1
		x 1 in.	
5	104663	PLUG, pipe, 3/4 npt (f)	1
6	100799	SCREW, mach, rd hd, 1/4-20 x 1/2 in	. 18
7	100859	SCREW, headless, full dog point, No.	1
		10-24 x 1/4 in.	
10		KNOB, vent	1
12	161162	SEAL, rubber	1
13		WIPER, inductor plate	1
14		SEGMENT, full barrel	6
15		CAP, vent	1
16		ROD, vent release	1
18		PLATE, inductor, bare	1
19	100556	SETSCREW, sq hd cup point,	2
		5/16-18 x 3/8 in.	
20	160721	O-RING, nitrile rubber	1





Ref No. 21: Part No. 205699 Inductor Plate Assembly: 400 lb Drum size Fits 50:1 President In-Line Pumps Includes items 3 - 7, 10, 12 - 16, and 22 - 24

Ref

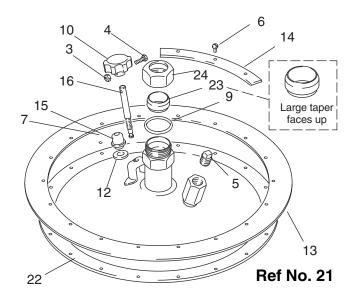
1101			
No.	Part No.	Description	Qty.
3	100015	NUT, hex, mscr, 1/4-20 UNC-2a	1
4	100021	CAPSCREW, hex hd, 1/4-20 UNC-2a	1
		x 1 in.	
5	104663	PLUG, pipe, 3/4 npt (f)	1
6	100799	SCREW, mach, rd hd, 1/4-20 x 1/2 in	18
7	100859	SCREW, headless, full dog point, No.	1
		10-24 x 1/4 in.	
10	160865	KNOB, vent	1
12	161162	SEAL, rubber	1
13	161287	WIPER, inductor plate	1
14		SEGMENT, full barrel	6
15		CAP, vent	1
16	164497	ROD, vent release	1
22		PLATE, inductor, bare	1
23		RING, locking	1
24	164962	NUT, collet	1

Ref No. 109: Part No. 25P545 Inductor Plate Assembly: 400 lb Drum size Fits 36:1 GT 750 Pumps Includes items 3-7, 10, 12-16, and 113-116

Ref

FIG. 16:

1101			
No.	Part No.	Description	Qty.
3	100015	NUT, hex, mscr, 1/4-20 UNC-2a	1
4	100021	CAPSCREW, hex hd, 1/4-20 UNC-2a	1
		x 1 in.	
5	104663	PLUG, pipe, 3/4 npt (f)	1
6	100799	SCREW, mach, rd hd, 1/4-20 x 1/2 in.	. 18
7	100859	SCREW, headless, full dog point, No.	1
		10-24 x 1/4 in.	
10		KNOB, vent	1
12	161162	SEAL, rubber	1
13		WIPER, inductor plate	1
14		SEGMENT, full barrel	6
15		CAP, vent	1
16		ROD, vent release	1
		O-RING, buna	1
114	19A791	NUT, collet	1
-		FERRULE	1
116	25P546	PLATE, inductor	1



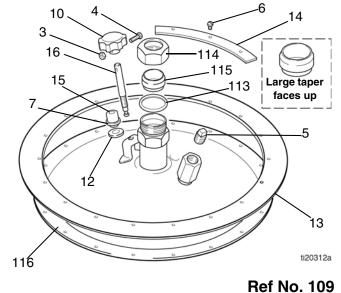
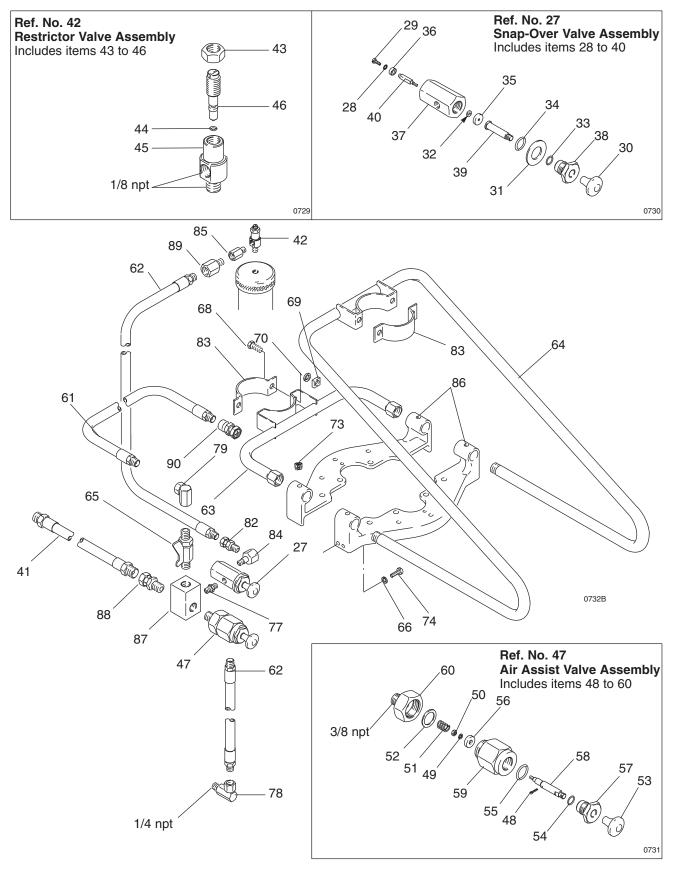


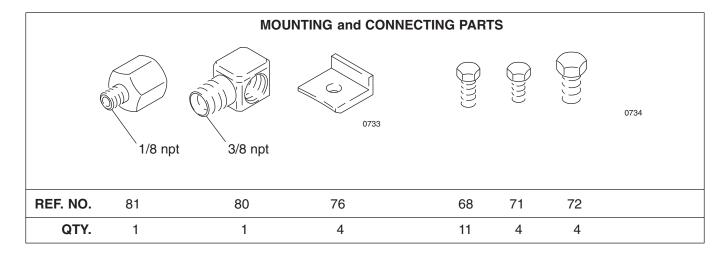
FIG. 15:

nerno



Ref No. 25: Part No. 204461 Wishbone Support Assembly

Ref				Ref			
No.	Part No.	Description	Qty.	No.	Part No.	Description	Qty.
27	202295	SNAP-OVER VALVE ASSEMBLY		61	204560	HOSE, air, cpld 3/8 npt (m) 3/8 in.	1
		Includes items 28 - 40				(9.6mm) ID, 18 in. (457 mm) long	
28	100272	LOCKWASHER, int. shkprf, No. 6	1	62	204561	HOSE, air, cpld 3/8 npt (m) 3/8 in.	2
29	104560	SCREW, oval hd, 6-32 3/8 in.	1			(9.6mm) ID, 36 in. (914 mm) long	
30	154519	KNOB	1	63	205610	SUPPORT, pump, lower	1
31	154526	WASHER	1	64	205611	SUPPORT, pump, upper	1
32	154570	WASHER	1	65	208393	BALL VALVE	1
33	154594	O-RING, buna-N	1	66	100016	LOCKWASHER, spring, 1/4 in.	4
34	155500	O-RING, nitrile rubber	1	68	100057	CAPSCREW, hex hd, 5/16-18 x 3/4 in.	11
35	155811	SEAL, valve, nitrile rubber	1	69	100181	NUT, square, 6/16-18	4
36	155921	SEAL, valve, nitrile rubber	1	70	100214	LOCKWASHERS, 5/16 in.	4
37	157160	HOUSING, valve	1	71	100333	CAPSCREW, hex hd, 1/4-20 x 1/2 in.	4
38	157161	GUIDE, valve	1	72	100469	CAPSCREW, hex hd, 3/8-16 x 3/4 in.	4
39	161129	STEM, valve, large	1	73	100421	SETSCREW, socket hd, cup point,	4
40	161132	STEM, valve, small	1			5/16 in. x 3/8 in	-
41	205418	HOSE, air, cpld 1/2 npt(m) 1/2 in.	1	74	100377	SCREW, hex socket hd, 1/4-20 x 5/8 in	
		(13mm) ID, 6 ft (1.8 m) long		76	150718	CLAMP, drum	4
42	203743	RESTRICTOR VALVE ASSEMBLY	1	77	151243	ADAPTER, 1/8 npt(m)	1
		Includes items 43 - 46		78	155541	UNION, 90° street, 1/4 npt (m x f)	1
43	101448	NUT, jam, 3/8-24	1	70	455077	swivel	
44	157628	O-RING, nitrile rubber	1	79	155677	UNION, 90° adapter, 3/8 npt (f)	1
45	160162	HOUSING, valve	1	80	155699	ELBOW, street, 3/8 npt (m x f)	1
46	160163		1	81	156580	ADAPTER, 3/8 npt(f) x 1/8 npt(m)	1
47	203842	AIR ASSIST VALVE ASSEMBLY	1	82 83	156823 158271	UNION, 1/4 npt(m x f) swivel BRACKET, elevator riser tube, 1/8 npt	1 2
40		Includes items 48 - 60		84	158962	ELBOW, 90° street, 1/4 npt(f) x 1/8 npt	
48	100063	PIN, cotter, 1/6 in. dia x 1/2 in.	1	04	156902		1
49	100068	LOCKWASHERS, spring, No. 6	1	85	159840	(m) ADAPTER, pump mounting, 1/4 npt(f) x	: 1
50	100072	NUT, hex, No. 6-32	1	65	159640	1/8 npt(m)	. 1
51 52	150902 153348	SPRING, compression GASKET, copper	1	86	189211	BRACKET, pump mounting	2
52 53	153348	KNOB	1	80 87	161466	MANIFOLD, air	2
53 54	154519	O-RING, buna-N	1	88	162505	UNION, swivel, 3/8 npt(m) x 1/2	1
55	155500	O-RING, nitrile rubber	1	00	102303	npsm(f) swivel	1
56	155811	SEAL, valve, nitrile rubber	1	89	150287	ADAPTER, 1/4 npt(m) x 3/8 npt(f)	1
57	157161	GUIDE, valve	1	89 90	158256	UNION, swivel, 1/2 npt(m) x 3/8 npt(n)	1
58	160401	STEM, valve	1	90	100200		I.
59	160402	HOUSING, valve	1			npsm(f) swivel (used with model	
60	160404	STUD, valve	1			226018 President pump only)	
		c. c_, . aro	•				



Ref No. 91: Part No. 204467 Fire-Ball Delivery Hose Kit

Includes Items 92 - 94, 96, and 115

Ref

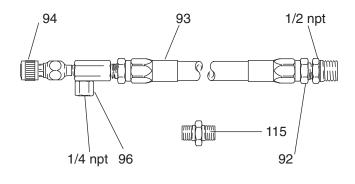
No.	Part No	.Description	Qty.
92	100206	BUSHING, 1/2 npt(m) x 1/4 npt(f)	1
93	109150	HOSE, fluid, cpld 1/4 npt(m)),	1
		1/4 in.(6.4mm) ID, 6 ft (1.83 m) long	3
94	205528	VALVE, bleeder	1
96		UNION, 90°, 1/4 npt(f) swivel	1
115	156971	NIPPLE, 1/4 x 1/4 npt(m)	1

Ref No. 97: Part No. 205102 President Delivery Hose Kit

Includes items 94, 96, 98, 99, and 110

Ref

No.	Part No.	Description	Qty.
94	205528	VALVE, bleeder	1
96		UNION, 90°, 1/4 npt(f) swivel	1
98	109163	HOSE, cpld 3/8 npt(m), 3/8 in.	1
		(9.6mm) ID, 6 ft (1.83 m) long	
99	156849	NIPPLE, hex, 3/8 npt(m)	1
110	100081	BUSHING, pipe, 1/2 npt(m) x 3/8	1
		npt(f)	



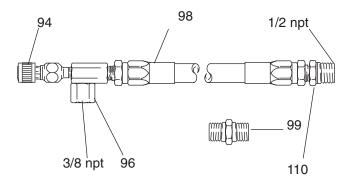


FIG. 18:

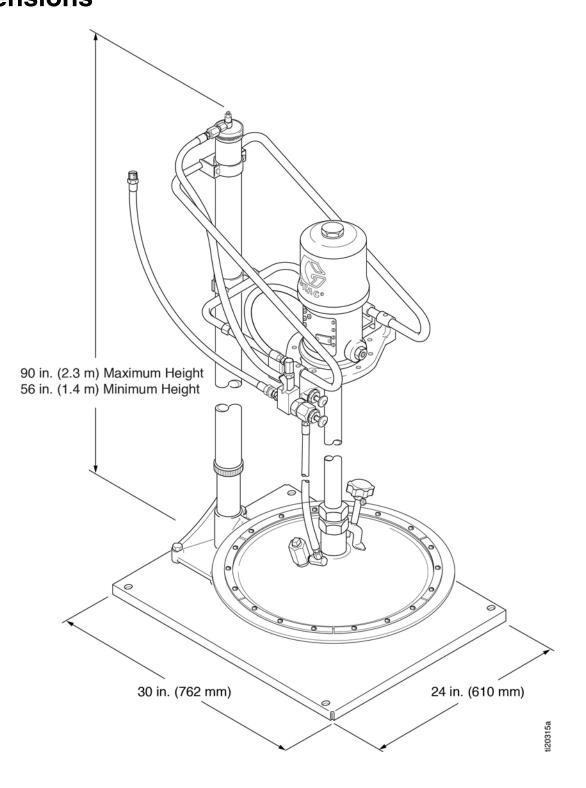
FIG. 19:

Ref No. 112: Part No. 25P547 GT 750 36:1 Pump Mounting Kit Includes items 117, 118

Ref

Qty.
1
2

Dimensions



Technical Specifications

See the pump instruction manual for Technical Data including Wetted Parts, Port Sizes, and so on.

Topper Units				
	US	Metric		
Maximum fluid working pressure				
50:1 Ratio Fire-Ball Pump	5000 psi	34.5 MPa, 345 bar		
50:1 Ratio President Pump	4000 psi	28 MPa, 280 bar		
75:1 Ratio President Pump	4000 psi	28 MPa, 280 bar		
36:1 Ratio GT 750 Pump	3600 psi	24.8 MPa, 248,2 ba		
Maximum air pressure				
50:1 Ratio Fire-Ball Pump	100 psi	0.7 MPa, 7bar		
50:1 Ratio President Pump	80 psi	0.6 MPa, 6 bar		
75:1 Ratio President Pump	80 psi	0.6 MPa, 6 bar		
36:1 Ratio GT 750 Pump	100 psi	0.7 MPa, 7 bar		
Weight				
Model 226013 50:1 Ratio Fire-Ball Pump	122 lb	55 kg		
Model 226018 50:1 Ratio President Pump	136 lb	61 kg		
Model 244637 75:1 Ratio President Pump	136 lb	61 kg		
Model 204490 Elevator and Inductor	90 lb	41 kg		
Model 25P544 36:1 Ratio GT 750 Pump	180 lb	82 kg		
Maximum sound pressure tested at	t 100 psi (0.7 MPa, 7 bar) at 40) cycles per minute		
Model 226013 50:1 Ratio Fire-Ball Pump	77.8 dB(A)	77.8 dB(A)		
Maximum sound pressure tested at	t 100 psi (0.7 MPa, 7 bar) at 15	5 cycles per minute		
Model 226018 50:1 Ratio President Pump	80.9 dB(A)	80.9 dB(A)		
Model 244637 75:1 Ratio President Pump	80.9 dB(A)	80.9 dB(A)		
Maximum sound pressure (tested a	at 3.28 ft. from equipment)			
Model 25P544 36:1 GT 750 Pump	70.5 db(A)	70.5 db(A)		
Maximum sound power lever tested	d in accordance with ISO 9614	4-2		
Model 226013 50:1 Ratio Fire-Ball Pump	85.6 dB(A)			

Topper Units				
	US	Metric		
Maximum sound power lever tested in accordance with ISO 9614-2				
Model 226018 50:1 Ratio President Pump	94.6 dB(A)			
Model 244637 75:1 Ratio President Pump	94.6 dB(A)			
Maximum sound power tested at 70 psi (0.48 MPa, 4.8 bar) at 20 cycles per min. (per ISO-9414-2)				
Model 25P544 36:1 GT 750 Pump	77.2 dB(A)			

California Proposition 65

CALIFORNIA RESIDENTS

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

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Original instructions. This manual contains English. MM 306556

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