

Topper Units

306556U

ΞN

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

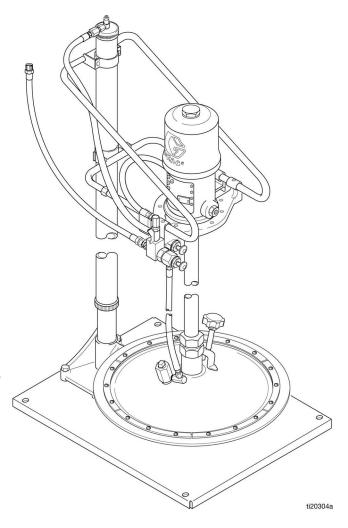
Model No. 25P544

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.

⚠ 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





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.

⚠ WARNING



EQUIPMENT MISUSE HAZARD

Misuse can cause death or serious injury.



- Do not operate the unit when fatigued or under the influence of drugs or alcohol.
- Do not exceed the maximum working pressure or temperature rating of the lowest rated system component. See **Technical Specifications** in all equipment manuals.
- Use fluids and solvents that are compatible with equipment wetted parts. See Technical
 Specifications in all equipment manuals. Read fluid and solvent manufacturer's warnings. For
 complete information about your material, request Safety Data Sheets (SDSs) from distributor or
 retailer.
- 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.



- 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

- 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).

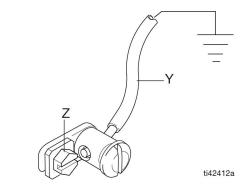


Fig. 1

Pressure Relief Procedure



Follow the Pressure Relief Procedure whenever you see this symbol.

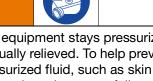












This equipment stays pressurized until pressure is manually relieved. To help prevent serious injury from pressurized fluid, such as skin injection, splashing fluid and moving parts, follow the Pressure Relief Procedure when you stop dispensing and before cleaning, checking, or servicing the equipment.

- 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

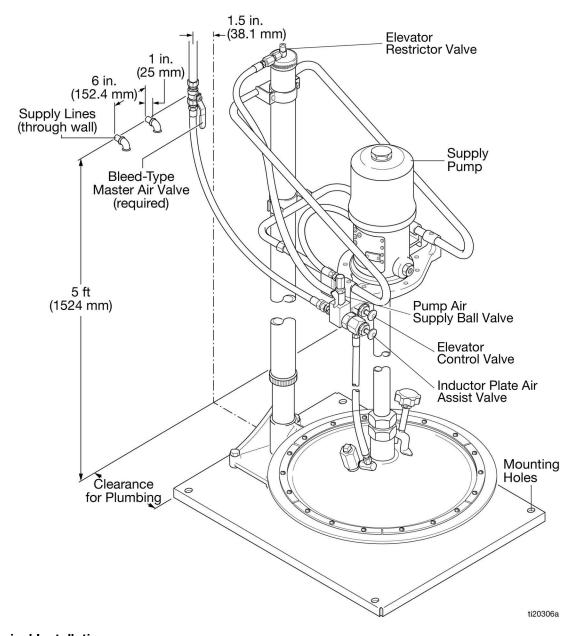


Fig. 2: Typical Installation

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).

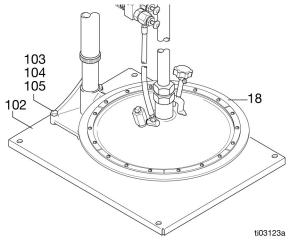


FIG. 3:

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

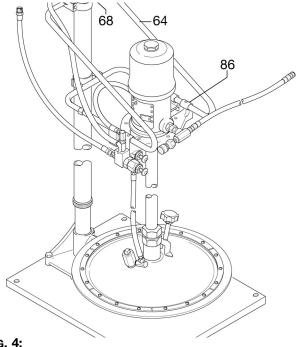


Fig. 4:

- 2. Remove the inductor plate nut (11, 24 or 114), the locking ring (8, 23 or 115) and the o-ring (9) (Fig. 5).
- 3. 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).

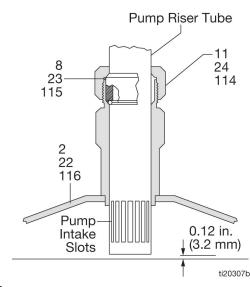


Fig. 5:

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).

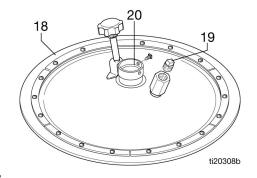


FIG. 6:

- 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).

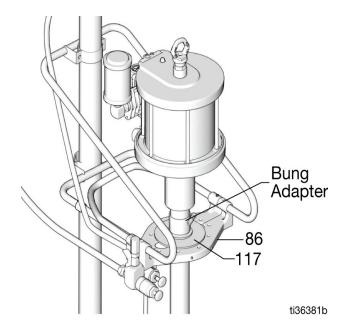


FIG. 7:

- 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.
- 8. 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.
- 4. Tighten the screws (68) on the upper pump bracket.

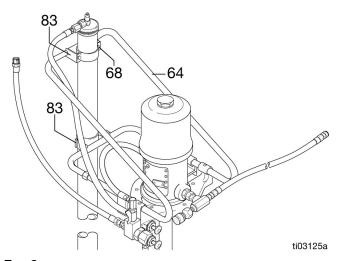


FIG. 8:

Installation of Hoses and Valves

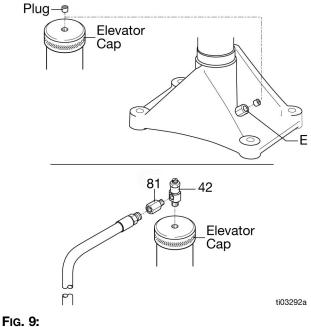
NOTE: Use thread sealant on all male threads except at the swivel unions.

1. Install user-supplied bleed-type master air valve into the pump's air supply line.

Refer to Fig. 10 and Fig. 18 for the following steps.

2. Remove the plug from the top of the elevator cap and screw it into the air inlet (E) in the elevator base (Fig. 10).

- 3. Screw the restrictor valve assembly (42) into the elevator cap.
- 4. Screw the 3/8(f) x 1/8(m) npt adapter (81) into the restrictor valve (42) (Fig. 10).



rig. 9

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. 10).

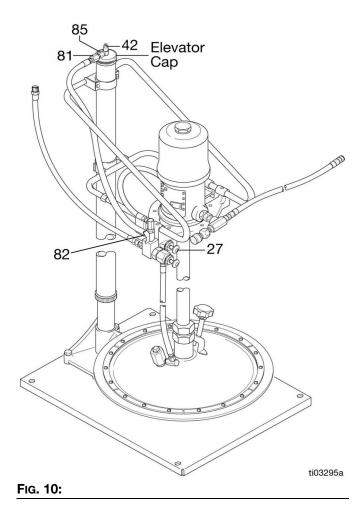






The bleed-type master air valve is required in the system to relieve air trapped between this valve and the pump after the air is shut off. Trapped air can cause the pump to cycle unexpectedly and cause serious injury, including amputation and skin injection. Position the valve close to the pump.

- 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).
- 9. Connect the kit's swivel union (96) to the adapter with the opening in the valve (94) facing downward. (See **Parts**, page 18).
- 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.

Model 25P544

- 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. 11 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.

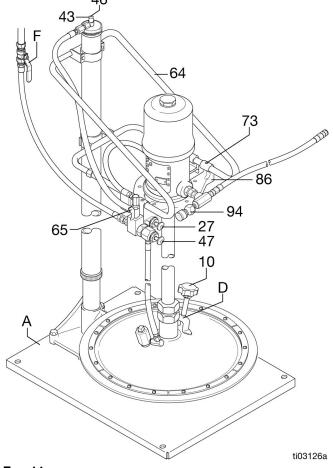


Fig. 11:

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.







Moving Parts Hazard

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.
- 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
- 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).









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.

- Press in and hold the air-assist valve (47) until the inductor plate rises above the drum. Release the valve (Fig. 11, page 12).
- 5. Open the elevator valve (27) then raise the elevator to full height (Fig. 11, 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.
- 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. 12 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



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

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.

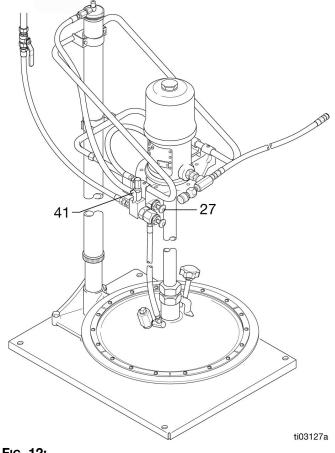


FIG. 12:

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

Model 204490 Elevator and Inductor Plate Assembly Includes items 17, 25, 90, and 101				Model 244637 Pump, Elevator, and Inductor Plate Assembly Includes items 21, 25, 90, 97, 101, and 107			
Ref No.	Parts	Description	Qty	Ref No.	Part No.	Description	Qty
17		INDUCTOR PLATE ASSEMBLY	1	21	205669	INDUCTOR PLATE ASSEMBLY	1
25	204461	See parts on page 19 WISHBONE SUPPORT ASSEMBLY See parts on page 22	1	25	204461	See parts on Page 19 WISHBONE SUPPORT ASSEMBLY See parts on page 22	1
90	204385	PNEUMATIC ELEVATOR See manual 306287 for parts	1	90	204385	PNEUMATIC ELEVATOR See manual 306287 for parts	1
101	205339	ELEVATOR BASE	1	97	205102	HOSE KIT	1
		See parts on page 19				See parts on page 24	
Mad	el 22601	9		101	205339	ELEVATOR BASE	1
		tor, and Inductor Plate Assembly				See parts on page 19	
		s 1, 25, 89, 90, 91 and 101		107	239730	75:1 RATIO PRESIDENT PUMP See manual 308777 for parts	1
Ref			Qty		I OEDE 4	4	
		Description	•		lel 25P54	or, and Inductor Plate Assembly	
1		INDUCTOR PLATE ASSEMBLY See parts on page 19	1	Inclu	• •	3 25, 90, 101, 108, 109, 112	_
25	204461	WISHBONE SUPPORT ASSEMBLY See parts on page 22	1	Ref No.	Part No.	Description	Qty
89	239888	50:1 RATIO FIRE-BALL PUMP See manual 308883 for parts	1	25	204461	WISHBONE SUPPORT ASSEMBLY See parts on page 22	1
90	204385	PNEUMATIC ELEVATOR See manual 306287 for parts	1	90	204385	PNEUMATIC ELEVATOR See manual 306287 for parts	1
91	204467	HOSE KIT	1	101	205339	ELEVATOR BASE See parts on page 19	1
101	205339	See parts on page 24 ELEVATOR BASE	1	108	24W337	36:1 RATIO GT 750 PUMP	1
101	200000	See parts on page 19	•	109	25P545	See manual 3A5363 for parts INDUCTOR PLATE ASSEMBLY	1
Mod	el 22601	8		110	25P547	See parts on Page 19 MOUNTING KIT	1
	• •	or, and Inductor Plate Assembly		112	237347	See parts on Page 24	ı
Inclu	des item	s 21, 25, 90, 97, 101, and 106				oco parto orri ago 2 i	
Ref			Qty				
No.		Description	•				
21	205699	INDUCTOR PLATE ASSEMBLY See parts on page 19	1				
25	204461	WISHBONE SUPPORT ASSEMBLY See parts on page 22	1				
90	204385		1				
97	205102	HOSE KIT See parts on page 24	1				
101	205339	ELEVATOR BASE	1				
106	205395	See parts on page 19 50:1 RATIO PRESIDENT PUMP See manual 306674 for parts	1				

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

Ref			Qty
No.	Part No.	Description	
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	NI IT 1/2-13	4

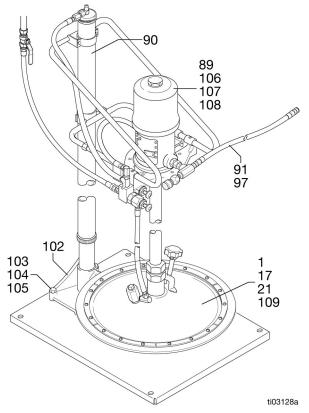


Fig. 13:

FIG. 14:

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 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

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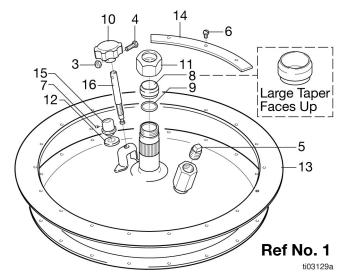
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-13

Ref No. 17

ti03130a

Ref No.	Part No	.Description	Qty	Ref No.	Part No	.Description	Qty
2	204502	PLATE, inductor, bare	1	3	100015	NUT, hex, mscr, 1/4-20 UNC-2a	1
3	100015	NUT, hex, mscr, 1/4-20 UNC-2a	1	4	100021	CAPSCREW, hex hd, 1/4-20	1
4	100021	CAPSCREW, hex hd, 1/4-20 UNC-2a x 1 in.	1	5	104663	UNC-2a x 1 in. PLUG, pipe, 3/4 npt (f)	1
5	104663	PLUG, pipe, 3/4 npt (f)	1	6		SCREW, mach, rd hd, 1/4-20 x 1/2	18
6	100799	SCREW, mach, rd hd, 1/4-20 x 1/2 in.	18	7		in. SCREW, headless, full dog point,	1
7	100859	SCREW, headless, full dog point, No. 10-24 x 1/4 in.	1	10		No. 10-24 x 1/4 in. KNOB, vent	1
8	101644	SLEEVE, coupling	1	12		SEAL, rubber	1
9		O-RING	1	13		WIPER, inductor plate	1
10	160865	KNOB, vent	1	14	161288	SEGMENT, full barrel	6
11	161107	NUT, locking	1	15	164432	CAP, vent	1
12	161162	SEAL, rubber	1	16	164497	ROD, vent release	1
13	161287	WIPER, inductor plate	1	18	204507	PLATE, inductor, bare	1
14	161288	SEGMENT, full barrel	6	19	100556	SETSCREW, sq hd cup point,	2
15	164432	CAP, vent	1			5/16-18 x 3/8 in.	
16	164497	ROD, vent release	1	20	160721	O-RING, nitrile rubber	1





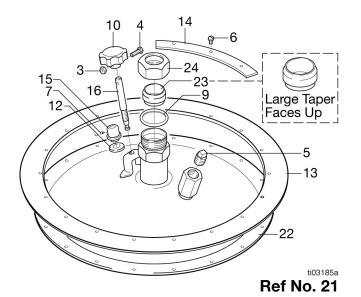
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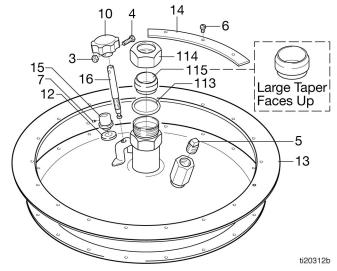
12

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 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			Qty	Ref			Qty
No.	Part No	. Description		No.	Part No.	. Description	
3	100015	NUT, hex, mscr, 1/4-20 UNC-2a	1	3	100015	NUT, hex, mscr, 1/4-20 UNC-2a	1
4	100021	CAPSCREW, hex hd, 1/4-20 UNC-2a	1	4	100021	CAPSCREW, hex hd, 1/4-20	1
		x 1 in.				UNC-2a x 1 in.	
5		PLUG, pipe, 3/4 npt (f)	1	5		PLUG, pipe, 3/4 npt (f)	1
6	100799	SCREW, mach, rd hd, 1/4-20 x 1/2	18	6	100799	SCREW, mach, rd hd, 1/4-20 x 1/2	18
		in.				in.	
7	100859	SCREW, headless, full dog point, No.	1	7	100859	SCREW, headless, full dog point,	1
		10-24 x 1/4 in.				No. 10-24 x 1/4 in.	
9	156593	PACKING, O-ring		10	160865	KNOB, vent	1
10	160865	KNOB, vent	1	12	161162	SEAL, rubber	1
12		SEAL, rubber	1	13		WIPER, inductor plate	1
13		WIPER, inductor plate	1	14	161288	SEGMENT, full barrel	6
14	161288	SEGMENT, full barrel	6	15	164432	CAP, vent	1
15		CAP, vent	1	16	164497	ROD, vent release	1
16		ROD, vent release	1	113	156641	O-RING, buna	1
22		PLATE, inductor, bare	1	114	19A791	NUT, collet	1
23		RING, locking	1	115		FERRULE	1
24	164962	NUT, collet	1	116	25P546	PLATE, inductor	1





Ref No. 109

Fig. 16:

Fig. 17:

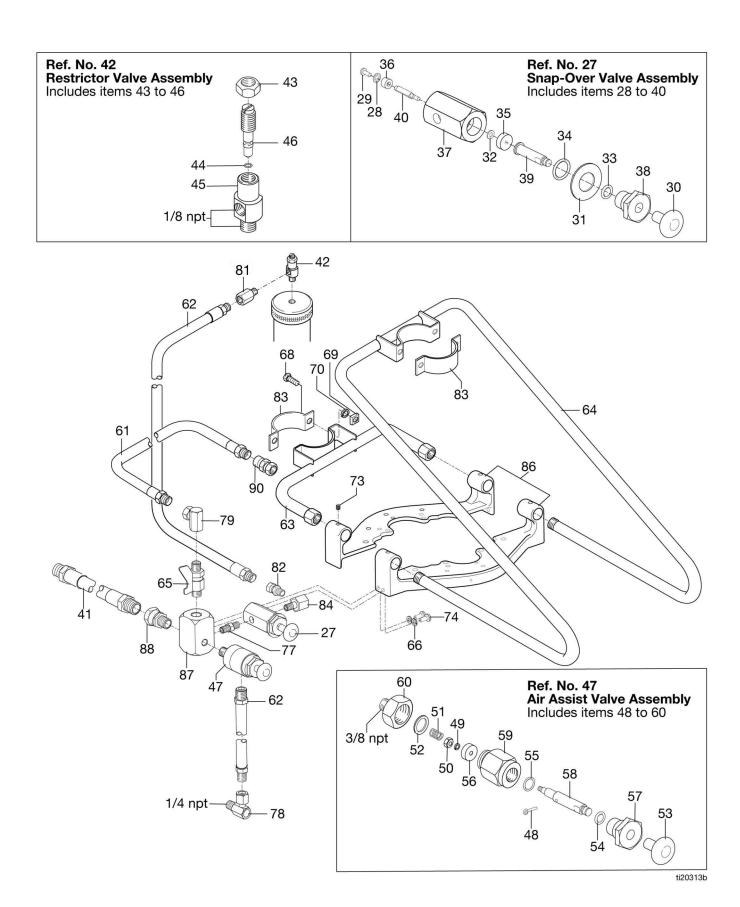
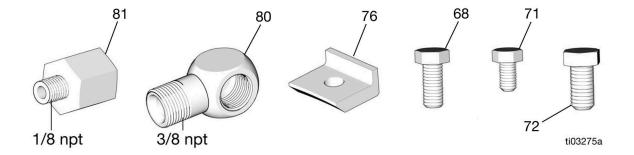


Fig. 18:

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



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

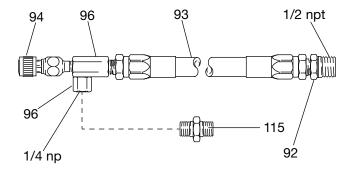
Includes Items 92 - 94, 96, and 115

Ref			Qty
No.	Part No	.Description	
92	100206	BUSHING, 1/2 npt(m) x 1/4 npt(f)	1
93		HOSE, fluid, cpld 1/4 npt(m)),	1
		1/4 in.(6.4mm) ID, 6 ft (1.83 m) long	
94	205528	VALVE, bleeder	1
96	160878	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			Qty
No.	Part No	. Description	
94	205528	VALVE, bleeder	1
96	160878	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)	



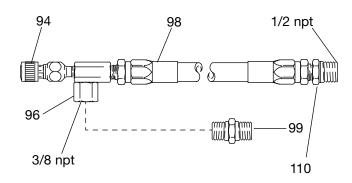


Fig. 19:

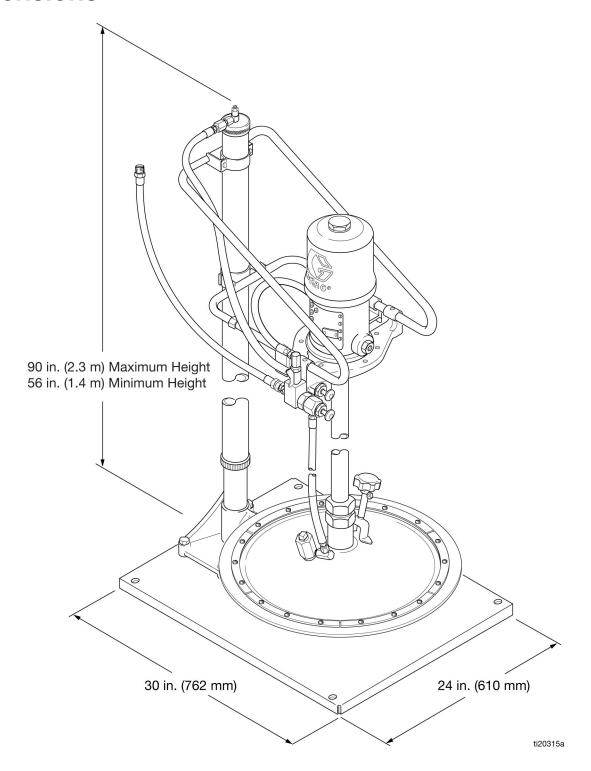
Fig. 20:

Ref No. 112: Part No. 25P547 GT 750 36:1 Pump Mounting Kit

Includes items 117, 118

Ref			Qty
No.	Part No. D	escription	
117	160754 F	LANGE, bung	1
118	555463 S	CREW. cap. hex hd 1/4-20	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 a	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)				
Maximum sound pressure tested a	t 100 psi (0.7 MPa, 7 bar) at 15	cycles per minute			
Model 226018 50:1 Ratio President Pump	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)				
Maximum sound power lever teste	d in accordance with ISO 9614	l-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

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