Balcrank®

PANTHER® 50:1 GREASE INDUCTOR
MODEL 1151-009
LION™ 50:1 GREASE INDUCTOR
MODEL 1151-010

PANTHER® 50:1 GREASE INDUCTOR
WITH LOW LEVEL SHUT-OFF
MODEL 1151-011

LION™ 50:1 GREASE INDUCTOR
WITH LOW LEVEL SHUT-OFF
MODEL 1151-012

1151-009

1151-010

Thoroughly read and understand this manual before installing, operating or servicing this equipment.

OPERATION, INSTALLATION, MAINTENANCE AND REPAIR GUIDE

General Safety

Thoroughly read and understand this manual before installing, operating or servicing the described products.

⚠ IMPORTANT

Because this pump can be incorporated into a pressurized systems, the following safety precautions should be observed.

Check equipment regularly and repair or replace worn and damaged parts.

Never alter or modify any parts of this pump, doing so may cause damage to pump and/or personal injury.

Under no circumstances should the dispensing valve be aimed at any person at any time. Personal injury may result.

Release pressures built up in the system before any service or repair is begun. See the pressure relief procedure below.

Do not operate this pump above 150 PSI (10.3 BAR) air inlet pressure or 200 cycles per minute.

Always read and follow the fluid manufacturer's recommendations regarding the use of protective eyewear, clothing and respirators.

⚠ WARNING

Pressure Relief Procedure:

Follow this procedure whenever you shut off the pump, when checking or servicing any part of the system and when installing, cleaning or changing any part of the system.

1) Disconnect the air to the pump.
2) Point dispensing valve away from yourself and others.
3) Open dispensing valve until pressure is relieved.

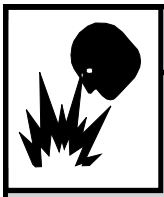
⚠ WARNING

WARNING: The 50:1 grease pump develops up to 7500 psi (517 Bar) maximum working pressure at 150 psi (10.3 Bar) maximum inlet air pressure and stall conditions. Be sure that any components or accessories used in the system are rated to withstand this pressure. To determine fluid output pressure at stall conditions, multiply the ratio of the pump by the air pressure being used.

EXAMPLE: 50:1 Pump Ratio x 100 psi air pressure = 5000 psi fluid pressure at stall.

⚠ CAUTION

Be careful not to dent or damage the riser tube during operation. Dents may cause the lift to operate roughly or make it impossible to operate.



⚠ WARNING

DANGER: Not for use with fluids that have a flash point below 100°F (38°C). Examples: gasoline, alcohol. Sparking could result in an explosion which could result in death.

⚠ WARNING

In the presence of explosive vapors, take action to prevent static sparking. Failure to ground the pump, piping, valves, containers, or other miscellaneous equipment can result in fire or explosion. A green grounding lug is provided on the pump.

⚠ WARNING

Keep fingers and hands away from moving parts when raising and lowering the lift to prevent pinching and/or amputating them between the drum and follower plate.

⚠ WARNING

Do not leave lift unattended in the "up" position. Loss of air pressure can cause lift to drop suddenly resulting in injury.

Table of Contents

Product Description

The grease inductor handles thicker viscosity greases better than a standard pump and follower plate. The combined weight of the pump and inductor assembly is used to prevent pockets from forming in the grease in the drum.

Installation

Mounting

1. Locate the air lift where there is at least 8 feet of overhead clearance. Provide adequate space in the front of the unit for changing drums and around the unit for plumbing. Mark and drill holes for 3/8" mounting bolts.

⚠ CAUTION

Be sure the mounting surface is strong enough to support the pump, the weight of the lubricants, and the stress caused by lifting these products off center.

2. Level the base using shims as needed, bolt base securely to the floor.
3. Connect air supply hose provided to air supply.
4. Set FRL regulated pressure at 75 psi.

Operation

Installing a drum

1. Raise follower plate above the height of the drum by pulling out on the "Lift" valve. (see figure 1 or figure 2)

2. Center on opened drum under the inductor plate (item 2).

3. Make the top of the grease concave by scooping the grease from the center of the drum to the sides of the drum.

4. Open vent by turning knob (item 8) clockwise.

⚠ WARNING

Keep fingers and hands away from moving parts when raising and lowering the lift to prevent pinching and/or amputating them between the drum and follower plate.

5. Lower the inductor plate into the drum by pushing in on the "Lift" valve. Holding onto pump tube press down until grease appears at the vent opening.

6. Close vent by turning knob counterclockwise.

Tube	Ports
1	Air Supply to "Pump"①
2	"Lift"②to Top of Lift
3	"Inductor"②to Inductor Plate
4	"Pump"②to Pump Air Inlet
5	"Pump"④to "Lift"③
6	"Lift"③to "Inductor"③

"T" Together

Pumping

1. Adjust FRL pressure to the lowest pump pressure necessary for good delivery. Using higher pressures may shorten pump life.

2. Insure "Lift" and "Inductor" valves are closed (pushed in). To pump, pull "Pump" valve out. To stop pumping push "Pump" valve in.

Removing a drum

1. Insure "Pump" valve is closed.

2. Pull out "Inductor" valve until the inductor plate raises above the drum. Once inductor plate has cleared the drum push "Inductor" valve in. (May use the lift valve to assist inductor by opening and closing to supply just enough air to keep the inductor lifting.

3. Pull out the "Lift" valve to raise the unit to its full height.

⚠ WARNING

Do not leave lift unattended in the "up" position. Loss of air pressure can cause lift to drop suddenly resulting in injury.

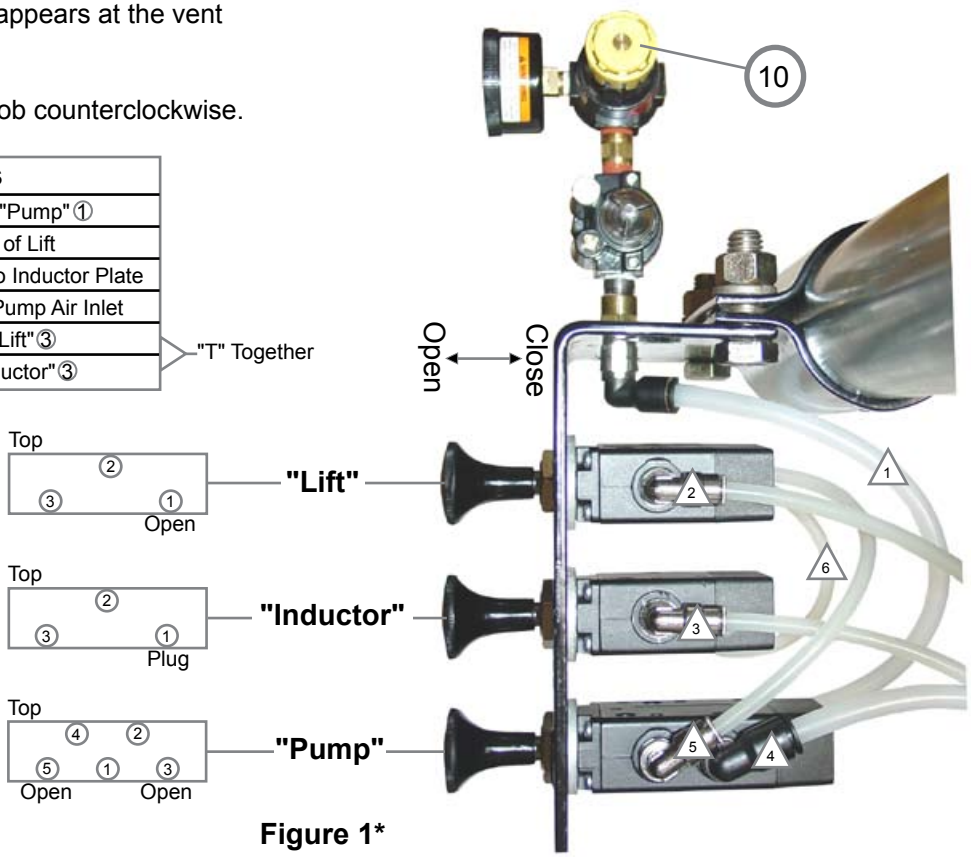


Figure 1*

*Set up for Model #1151-009 & 1151-010

Tube	Ports
1	Air Supply to "Pump" ①B
2	"Lift" ②to Top of Lift
3	"Inductor" ②to Inductor Plate
4	"Pump" ②B to Pump Air Inlet
5	"Pump" ④to "Lift" ③
6	"Lift" ③to "Inductor" ③
7	"Pump" ①A to Switch Inlet
8	Outlet of Switch to ②A

"T" Together

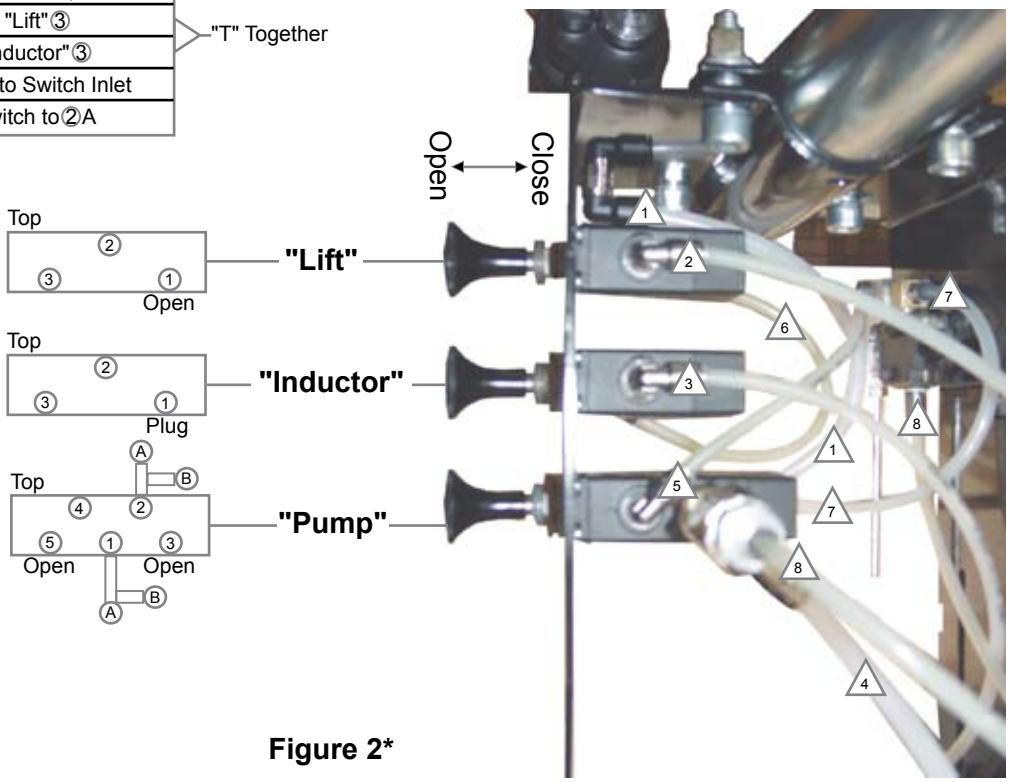
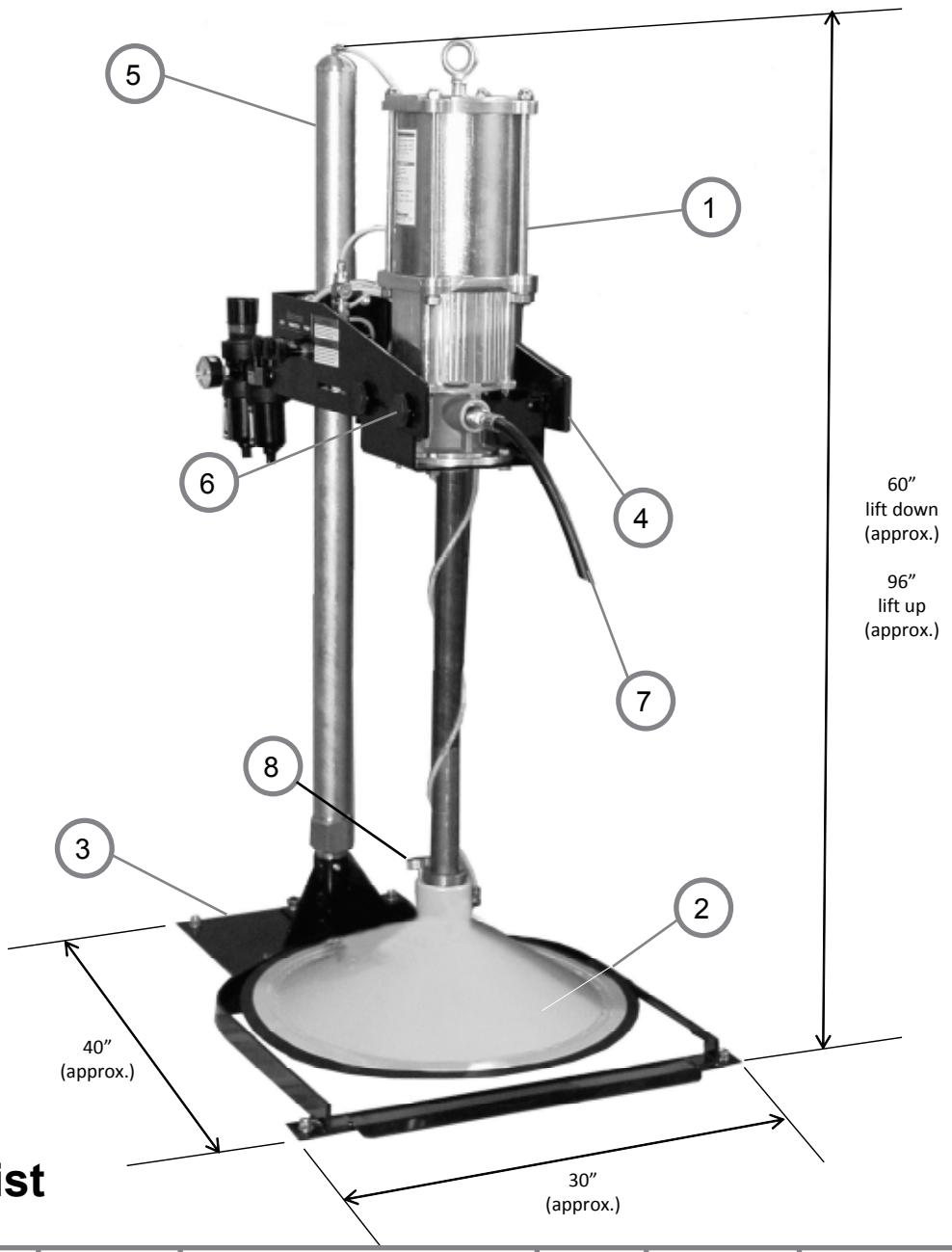


Figure 2*

*Set up for Model #1151-011 & 1151-012

Troubleshooting

TROUBLE	PROBABLE CAUSE	SOLUTION
Inductor base lifting from floor or unit not secure.	Unit not bolted to floor or bolts not tight.	Bolt to floor or tighten bolts (see installation instructions).
Pump is not priming.	Grease not feeding into center of inductor plate.	Scoop grease into concave shape (see installing a drum).
	"Lift" and/or "Inductor" valve left open.	Close (push in) "Lift" and/or "Inductor" valve.
Low flow rate.	Open inductor plate vent	Close inductor vent clockwise.



Parts List

ITEM	PART #	DESCRIPTION	QTY	1151-009 1151-011	1151-010 1151-012
1	1150-011 1150-015	Panther 50:1 Lion 50:1	1 1	X	 X
2	831859	Weldment Inductor Plate	1	X	X
3	831860	Weldment Base	1	X	X
4	831884	Carriage, Pump Mount	1	X	X
5	831865	Air Lift Assembly	1	X	X
6	809032	Thumb Screw	4	X	X
7	8332-007 8333-007	Fluid Hose Fluid Hose	1 1	X	 X
8	831869	Knob	1	X	X
9	8132-005	Air Hose (not shown)	1	X	X
10	3260-059	FRL (see figure 1)	1	X	
	3260-049	FRL (see figure 1)	1		X

Accessories

Dolly Base:
- 4310-004 - 400 lb

4310-004

Inlet Screen:
- 4430-004 - Panther® 50:1 Pump
- 4430-003 - Lion™ 50:1 Pump

4430-004

Pump Over-Run Control
- 3241-001 - 1/2" NPT (F) Lion™
- 3241-002 - 1/2" NPT (F) Panther®

3241-002

Low Level Cut Off
- 4520-008

4520-008

For Warranty Information Visit:
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Revision Log:

Rev. A - Added low level models
Rev. B - Added Lion pump
Rev. C - Added dimensions to parts view on page 6