

Models AC2400 & AC2440 PowerLuber Grease Gun



NOTE: Grease cartridges are not included.

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GENERAL POWER TOOL SAFETY WARNINGS



WARNING

Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

save all warnings and instructions for future reference.

The term “power tool” in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

1) Work area safety

- Keep work area clean and well lit. Cluttered or dark areas invite accidents.**
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

2) Electrical safety

- Power tool plugs must match the outlet. Never modify the plug in any way.** Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- Do not abuse the cord.** Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.

- If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.

NOTE: The term “residual current device (RCD)” may be replaced by the term “ground fault circuit interrupter (GFCI)” or “earth leakage circuit breaker (ELCB)”.

3) Personal safety

- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.

- Use personal protective equipment. Always wear eye protection.** Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

- Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.

- Remove any adjusting key or wrench before turning the power tool on.**

A wrench or a key left attached to a rotating part of the power tool may result in personal injury.

- Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.

- Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewelry or long hair can be caught in moving parts.

- If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.

4) Power tool use and care

- Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
- Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
- Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.

- e) **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
 - f) **Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.**
 - g) **Use the power tool, accessories and tool bits, etc., in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.
- 5) **Service**
- a) **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.



Warning! To reduce the risk of injury, the user must read the instruction manual.



Separate collection. This product must not be disposed of with normal household waste.

WARNING

Grease gun can develop high pressure - up to 7,000 psi (482 bar). Use safety glasses and gloves for protection during operation. Keep hands clear of the exposed rubber portion of hose.

WARNING

Extreme pressure may cause nozzle extension of whip hose to burst. Use only Lincoln APPROVED hoses and follow whip hose instructions and warnings.

Minimum Gauge for Cord Sets

Ampere Rating	Volts	Total Length of Cord in Feet/Meters				
		120V	25 / 7.6	50 / 15.2	100 / 30.5	150 / 45.7
		240V	50 / 15.2	100 / 30.5	200 / 61.0	300 / 91.4
More Than	Not More Than	AWG				
0	6		18	16	16	14
6	10		18	16	14	12

TOOL USE AND CARE

- Do not use the PowerLuber if the switch does not turn it on and off. A PowerLuber that cannot be controlled with the switch is dangerous and must be repaired.
- Disconnect the plug from the power source before making any adjustments, changing accessories or storing PowerLuber. Such preventive safety measures reduce the risk of starting the PowerLuber accidentally.
- Store idle PowerLubers out of the reach of children and do not allow persons unfamiliar with the PowerLuber or these instructions to operate it. PowerLubers are dangerous in the hands of untrained users.
- Maintain PowerLubers. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the PowerLuber's operation. If damaged, have the PowerLuber repaired before use.
- Be sure your power supply agrees with the nameplate marking. Voltage decrease of more than 10% will cause loss of power and overheating. If this tool does not operate, check power supply.
- Do not continue to hold down trigger if grease gun is stalled. This could damage the motor or cause fire.
- Use only accessories that are recommended for this model. Only accessories that are capable of handling 7000 PSI (482 bar) should be used.

SERVICE

- Service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel may increase the risk of injury.
- When servicing a PowerLuber, use only Lincoln replacement parts. Use of unauthorized parts may increase the risk of injury and will void the warranty.

SPECIFICATIONS

Basic PowerLuber Model AC2400	
Operating Power, Volt-----	120 AC
Rated Current-----	2 amps
Maximum Operating Pressure, psi (bar) -----	7,000 (482)
Grease Reservoir Capacity, oz. (cm ³) -----	14.5 (411)
Operating Temperature Range, °F(°C) -----	0 to122 (-18 to+50)
Operating Current, at	
1,000 psi (69 bar) -----	1.6 amps
7,000 psi (482bar)-----	2.75 amps
Lubricant (Grease) -----	up to NLGI #2
Grease output, oz./min(cm ³ /min) at 1000psi (69bar)	
("L" Setting)-----	3.6 (106.5)
Grease output per stroke, oz.(cm ³) ("L" Setting)	
at 1000psi(69bar)-----	.021 (.62)
Weight, lbs. (kg) -----	8.2 (3.76)

Accessories:

Outlet Hose Model 1230	
-pressure rating, psi(bar)	7,500 (510)
-length of the Hose, In (mm)	30 (760)

MODELS

Sales Model	Basic PowerLuber	Case
AC2440	AC2400	286240

Models AC2400 & AC2440 PowerLuber Grease Gun



GENERAL DESCRIPTION

Appropriate use

The Lincoln PowerLuber was developed for manual lubrication of grease points and includes a safety valve, stroke counter, output lever, whip hose with coupler and 6-foot power cord.

The PowerLuber is driven by a small electric motor connected to a three-stage planetary gear reducer. The rotary motion of the motor is converted into a reciprocating motion of the plunger through an eccentric and yoke mechanism. The PowerLuber is a positive displacement single acting pump.

Safety Valve

The safety valve (Fig. 1) is factory set to relieve pressure above 7000 psi (482 bar). The valve also is an indicator of the bearing and lubrication line conditions. If grease comes out of the safety valve, it indicates a clogged or tight bearing or fitting or line. Correct this before continuing lubrication with the PowerLuber.

Stroke counter

The tool is equipped with capability for calibration. This is accomplished by measuring (weighing) grease flow output and dividing the weight of grease by number of strokes. Simply put your thumb on the stroke counter button (Fig. 1) during operation of the tool and count.

Some OEM's are recommending the exact amount of grease to lubricate critical bearings. By counting the strokes you will know how much grease has been dispensed to lubricate the bearing. Here is the table of the grease output vs. number of strokes.

Stroke count	Output/stroke	
	oz.	gram
10	0.20	5.7
15	0.30	8.5
20	0.40	11.4

Note: Lincoln recommends this feature only on low output/high pressure mode.

Variable output switch

The variable speed switch permits motor speed control, the more the trigger is depressed the higher speed of the motor and therefore the higher the grease output of the gun.

Double insulation

The electric PowerLuber utilizes a double insulated motor design for safety. The double insulation eliminates the need for a three wire grounded cord. All exposed metal parts are isolated from the internal metal motor components with a double layer of protection insulation. **Double insulated tool do not need to be grounded.**

WARNING

The double insulated system is intended to protect the user from shock resulting from a break in the tool's internal insulation. Observe all normal safety precautions to avoid electrical shock.

INSPECTION

1. Visually inspect for damaged, loose or missing parts.
2. If tool is worn or damaged, remove from service. Contact an authorized service center for damage assessment or repair.

OPERATION

Changing "L" or "H" Mode

To change the mode of operation:

CAUTION

To prevent damage to the gears in the transmission, the motor must be completely stopped before changing the lever to the "L" or "H" (low or high) mode of operation.

"L" (low output/high pressure)

"H" (high output/low pressure)

When motor is not running, push the red lever (Fig. 1) until letter "L" or "H" will be completely visible in the window.

In case the red lever is not completely shifted/engaged, hold this lever and bump the switch to engage gears.

High output is recommended if the tool is used to lubricate large bearings not requiring high pressure, beyond 3,000 psi (206 bar). Also, high output is recommended if tool is used to refill small reservoirs of automatic lubrication systems.

Low output is recommended if the tool is used in construction, agricultural and mining applications and general lubrication.

Low output will provide the maximum pressure of up to 7,000 psi (482 bar) the tool is capable of producing.

Prime the PowerLuber after each refill or grease cartridge change. Prime the gun before using it to lubricate grease points.

To prime, operate the gun until grease flows from the hose. Use vent valve (Fig. 1) to expel air pockets.

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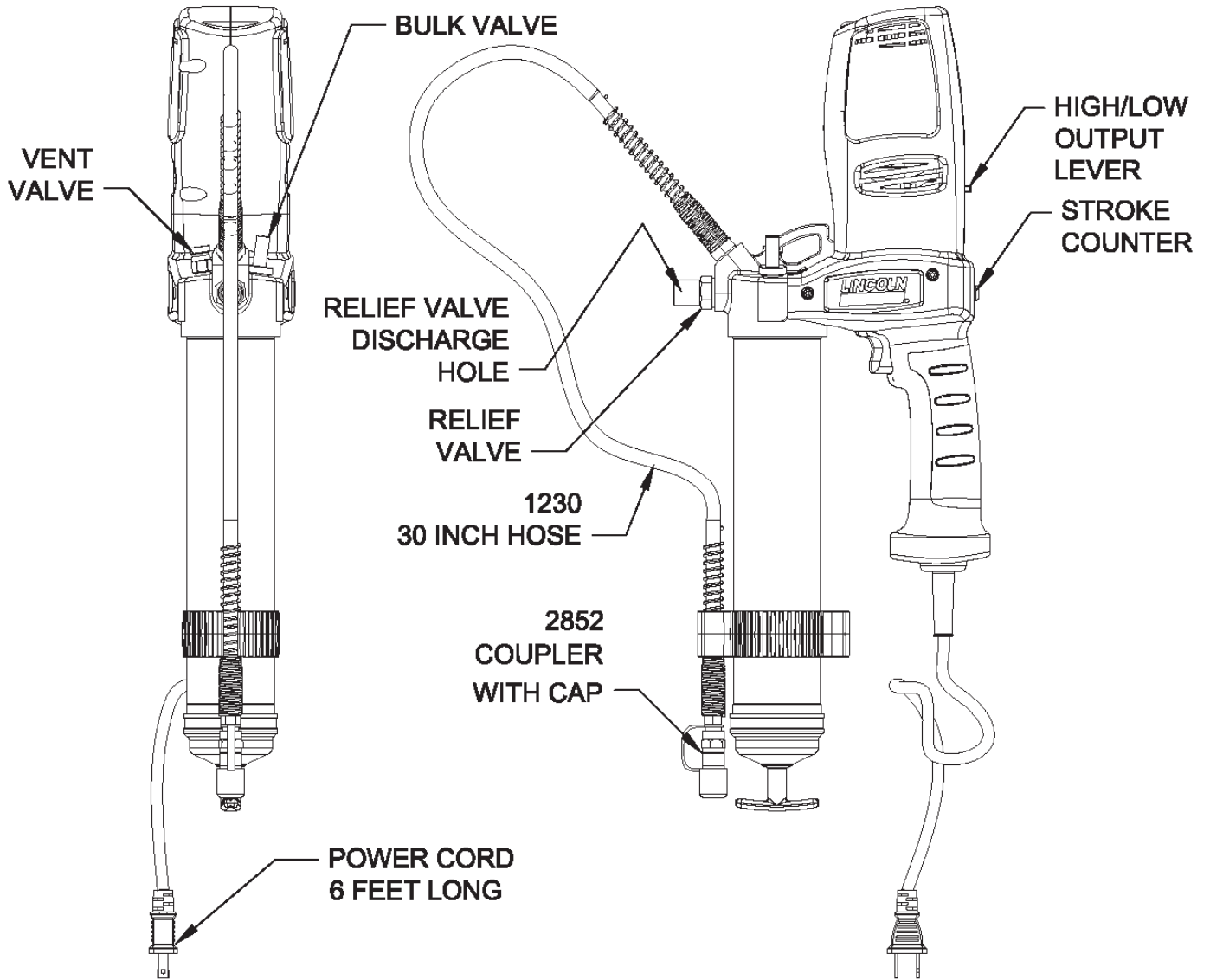


Figure 1

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Models AC2400 & AC2440 PowerLuber Grease Gun



Installing Grease Cartridge

1. Unscrew the grease tube assembly from the PowerLuber.
2. Visually check the follower seal lip direction before loading a new cartridge. The follower seal lip must be directed toward the follower handle or rear side for cartridge loading. See Fig. 2. (To change the direction of the follower seal, unscrew tube cap from grease tube assembly and pull on the handle to remove follower seal from tube. Flip follower seal over and reassemble.)
3. Pull back on the follower handle and latch the follower rod groove into the slot on the tube cap.
4. Remove the plastic cap from the grease cartridge and insert cartridge into the container tube.
5. Remove the pull tab from grease cartridge and screw grease tube assembly into pump assembly.
6. Release follower rod from slot. Purge air from pump. See air purging instructions.

CAUTION

Air pockets in the cartridge lubricant will cause the gun to lose its prime.

Removing Empty Grease Cartridge

1. Pull back on the follower handle until the follower rod is fully extended and latch the follower rod groove into the slot on the tube cap.
2. Unscrew the grease tube assembly from the PowerLuber.
3. Carefully release the follower handle to eject the empty cartridge from container tube.

To Convert Gun to Allow Filling From Bulk Container or Filler Pump

1. Unscrew the grease tube assembly cap from the grease tube assembly. Pull on the follower handle to extract the follower and spring from the grease tube assembly.
2. Grasp follower between thumb and forefinger and flip the follower lip from the rear to the front side.
NOTE: The follower resembles a cup. When the gun is assembled for use with bulk lubricant, the cup opens toward the pump assembly.
3. Reassemble follower into grease tube assembly and position with the follower handle so that the grease tube assembly cap can be tightened onto the container tube.



Rear side



Front side

Figure 2

To Fill The Gun from Bulk Container

1. Remove pump assembly from grease tube assembly.
2. Pack lubricant into cavity of the pump assembly.
3. Insert the open end of the grease tube assembly into lubricant (see Fig. 3). Slowly pull the follower handle back while pushing the grease tube assembly deeper into the lubricant to prevent air pockets from being pulled into the grease tube assembly.
4. When the follower rod is fully extended, pull it sideways to latch the rod groove into the keyhole slot in the grease tube assembly cap.
5. Loosely assemble the pump assembly to the grease tube assembly. Release the follower rod from the grease tube assembly cap and disengage the follower rod from the follower by rotating the follower handle. Push the follower rod into the grease tube assembly. Slowly unscrew the grease tube assembly from the pump assembly until lubricant oozes from the interface. Tighten grease tube assembly into the pump assembly.



Figure 3

To Fill The Gun with a Filler Pump

1. Engage the follower rod with the follower by rotating the follower handle.
2. Insert the gun vent/bulk fill valve into the filler pump socket (see Fig. 4).
3. Operate the filler pump to fill the container. When the follower rod groove is exposed, the grease tube assembly is filled. The follower rod will be extended approximately 8 inches (20 cm). Do not overfill!
4. Disengage the follower rod from the follower by rotating the follower handle.
5. Push the follower rod into the grease tube assembly.



Figure 4



IMPORTANT

Remove Air Pocket! Air pocket at grease inlet will prevent grease from being pumped. Unscrew the vent/bulk fill valve two full turns to remove small air pockets trapped in this area. If the air pocket is substantial and no grease flows from coupler after trigger is pulled for 15 seconds, see the following steps.

To Expel Air Pockets

1. Withdraw the follower rod from the grease tube assembly cap and engage it with the follower by rotating the follower handle.
2. Unscrew the vent/bulk fill valve two turns. Exert force on the follower handle until grease flows through the opening in the vent/bulk fill valve.
3. Tighten the vent/bulk fill valve.
4. Pull the trigger in short bursts to operate gun until trapped air is expelled. Disengage the follower rod from the follower by rotating the follower handle. Push the follower rod into the grease tube assembly.
5. If step 2 fails, unscrew the grease tube assembly 3 turns from the pump assembly.
6. Exert force on the follower handle until lubricant oozes from the grease tube assembly and pump assembly interface.
7. Tighten grease tube assembly into the pump assembly. Disengage the follower rod from the follower by rotating the follower handle. Push the follower rod into the grease tube assembly.

Models AC2400 & AC2440
PowerLuber Grease Gun

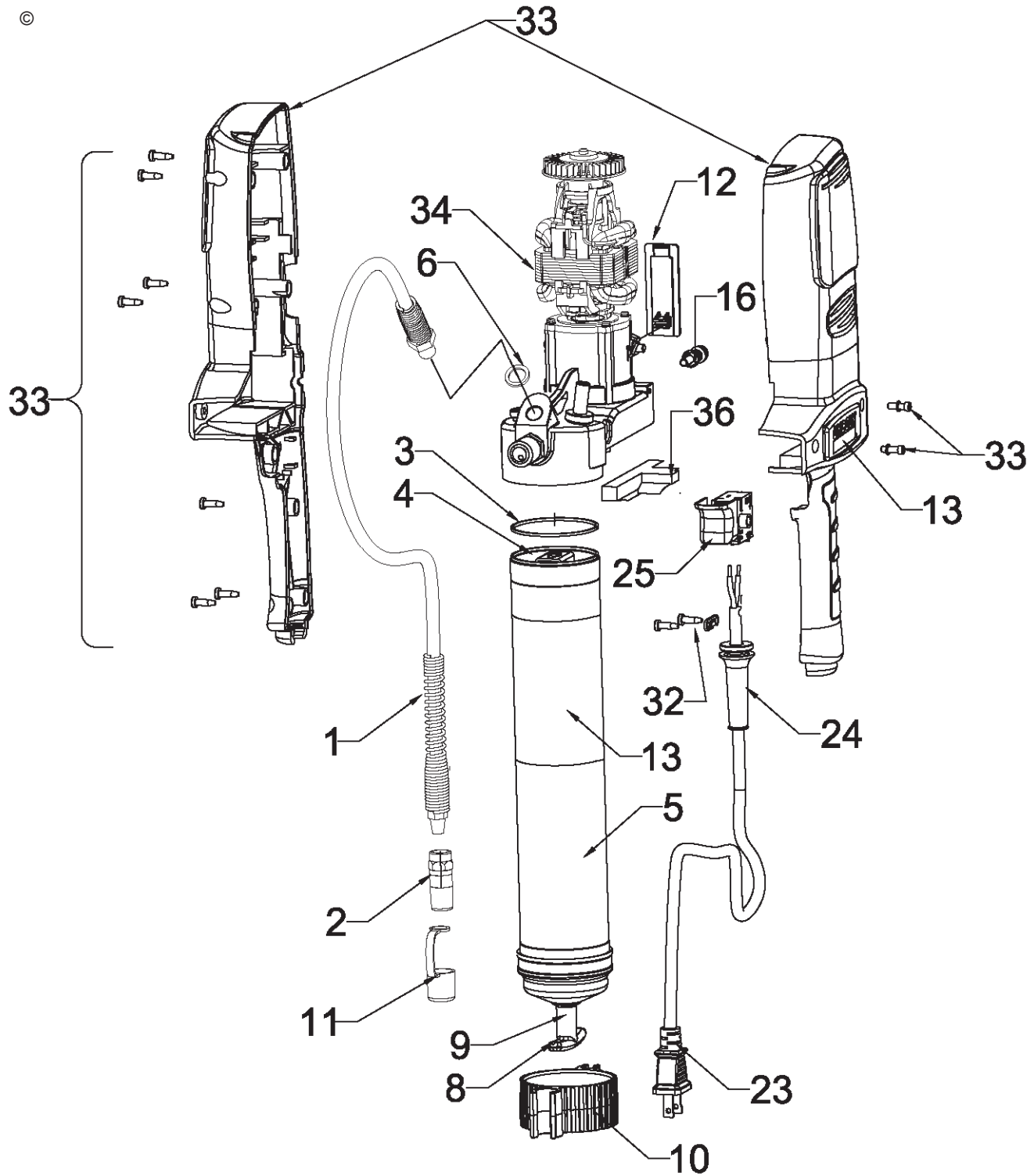


Figure 5

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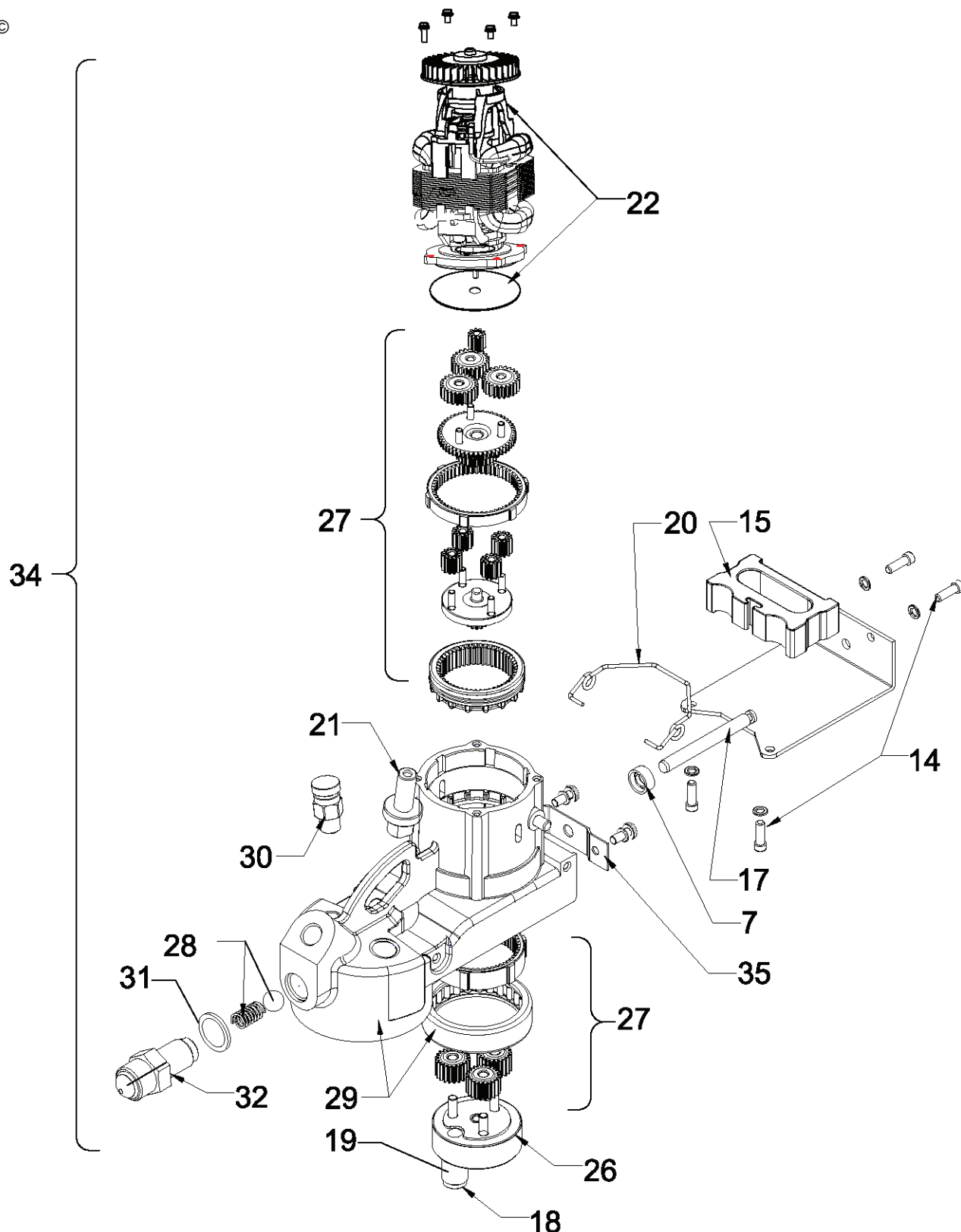


Figure 6

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Models AC2400 & AC2440 PowerLuber Grease Gun



Service Parts List

Item	Description	Part Number
1	Flexible Hose 30" w/Gasket	1230
2	Coupler	5852
3	Packing	34793
4	Follower Assembly Kit	93485
5	Grease Tube Assembly	271882
6	Gasket Kit (Hose)	271884
7	Seal	271889
8	Handle Kit (Grease tube)	286090
9	Rod, Follower Kit	286091
10	Hose Clip Kit	286092
11	Coupler Cap Kit	286093
12	Gear Selector Kit	286097
13	Decal Kit	286101
14	Cover Pump Kit	286106
15	Yoke Kit	286107
16	Stroke Indicator	286108
17	Plunger Kit	286109
18	Stud Kit	286110
19	Roller Kit	286111
20	Spring Selector	286113
21	Vent/Balk Valve Kit	286134
22	Motor & Plate Kit	286155
23	Cord Kit	286156
24	Cord Protector Kit	286157
25	Trigger Kit	286179
26	Driver Assembly	286285
27	Gear Set Kit	286286
28	Check Valve Kit	286306
29	Housing Pump with Bearing	286307
30	Vent Valve Kit	286315
31	Gasket Kit (Relief valve)	286316
32	Relief Valve Kit	286317
33	Handle Kit	286333
34	Pump Assembly Kit	286334
35	Seal Retainer Kit	286335
36	Seal Rubber Kit	286336
--	Hardware Kit	286190
--	Strap	1414
--	Case	286240

TROUBLESHOOTING

Condition	Possible Cause	Corrective Action
Motor fails to run.	<p>No power</p> <p>Loose wire connection.</p> <p>Faulty switch.</p> <p>Worn motor brushes.</p> <p>Burned motor.</p>	<p>Check power cord connection with outlet.</p> <p>Disassemble handle and check wiring for loose connection.</p> <p>Replace switch.</p> <p>Replace motor.</p> <p>Replace motor.</p>
PowerLuber fails to dispense grease.	<p>Grease tube assembly is out of grease.</p> <p>Loss of prime.</p> <p>Ball check item 19 is not functioning.</p>	<p>Check that grease tube assembly has grease.</p> <p>Repeat priming operation.</p> <p>Remove Items 19 and clean and inspect ball seat area.</p>
PowerLuber continues to lose prime.	<p>Air may be trapped in several locations in container after bulk filling.</p> <p>Follower may be binding in grease tube assembly.</p>	<p>Empty grease tube assembly, refill and repeat priming instructions.</p> <p>*Replace grease tube assembly Item 2.</p> <p>*Disassemble grease tube assembly and clean.</p> <p>*Be sure that follower has properly entered the grease cartridge.</p> <p style="text-align: center;">Or</p> <p>*Verify that the follower is not caught on the rim of the grease cartridge.</p>

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