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**Models 1400, 1442, 1442E, 1444, 1444E
PowerLuber Grease Gun
Series "C"**



Note: Extra battery only included on Models 1444 and 1444E
Basic PowerLuber Model 1400





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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**
 - a) **Keep work area clean and well lit. Cluttered or dark areas invite accidents.**
 - b) **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.
 - c) **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.
- 2) **Electrical safety**
 - a) **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.
 - b) **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.
 - c) **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
 - d) **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.
 - e) **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.
 - f) **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**
 - a) **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.
 - b) **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.
 - c) **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.
 - d) **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.

- e) **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
 - f) **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.
 - g) **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**
- a) **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.
 - b) **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.
 - c) **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.
 - d) **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.
- Specific Safety**
1. Always wear eye protection. The PowerLuber can generate up to 7,000 psi (482 bar).
 2. Use only Lincoln 1218, 1224, 1230 or 1236 outlet whip hoses. Grease injection injuries are a very serious injury. Hold the hose only in the area of the spring guard.
 3. Avoid accidental starting. Be sure switch is not depressed when inserting battery pack.
 4. Do not bend the hose so that it becomes kinked.
 5. Replace the hose at the first sign of wear, kink or damage to the outside jacket.
- Do not overreach. Keep proper footing and balance at all times. Proper footing and balance enable better control of the tool in unexpected situations.
- Use safety equipment. Always wear eye protection.
- Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions.
-  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.

Models 1400, 1442, 1442E, 1444, 1444E

PowerLuber Grease Gun



Any other use not in accordance with instructions will result in loss of claim for warranty or liability.

Service

Tool service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel may result in a risk of injury.

When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance section of this manual. Use of unauthorized parts or failure to follow Maintenance Instructions may create a risk of shock or injury.

SPECIFICATIONS

Basic PowerLuber Model 1400

Operating Power, Volt	14.4
Maximum Operating Pressure, PSI (bar)	
- Low Output -	7,000 (482)
- High Output -	3,000 (206)
Grease Reservoir Capacity, oz. (g)	14.5 (411)
Operating Temperature Range, °F (°C)	0 to 122 (-18 to +50)
Operating Current, Amp	4.0
Rated Current, Amp	5.0
Lubricant (Grease)	Up to NLGI #2
Grease output oz./min. (gram/min)	
- Low Output (L)	3.8 (108)
- High Output (H)	8.5 (241)
Weight, Lbs. (Kg)	8.0 (3.6)

Accessories:

Battery NiCd Model 1401	
Output, VDC	14.4
Capacity, mAh	1700
Battery Charger Model 1410	
Charge time	1 Hour
Input, VAC (2.0 A)	120 V, 50-60 Hz
Battery Charger Model 1410E	
Charge time	1 Hour
Input, VAC (2.0 A)	230 V, 50 Hz
Outlet Hose Model 1230	
Pressure Rating, psi (Bar)	7,500 (510)
Length of the Hose, In (mm)	30 (760)

NOTE: Operating current and grease output data at 1,000 PSI (69 bar).

⚠ WARNING

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

TOOL USE AND CARE

Do not use tool if switch does not turn it on or off. A tool that cannot be controlled with the switch is dangerous and must be repaired.

Do not continue to hold down trigger if grease gun is stalled. This could damage the motor or cause fire.

Disconnect battery pack from tool before making any adjustments, changing accessories, or storing the tool. Such preventive safety measures reduce the risk of starting the tool accidentally.

Store the tools out of reach of children and other untrained persons. Tools are dangerous in the hands of untrained users.

When battery pack is not in use, keep it away from other metal objects like: paper clips, coins, keys, nails, screws, or other small metal objects that can make a connection from one terminal to another. Shorting the battery terminals together may cause sparks, burns, or a fire.

Maintain tools with care. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tool's operation. If damaged, have the tool serviced before using. Many accidents are caused by poorly maintained tools.

Use only accessories that are recommended by Lincoln.

Only accessories that are capable of handling 7000 PSI (482 bar) should be used. Accessories that may be suitable for one tool may create a risk of injury when used on another tool.

Appropriate use

The PowerLuber was exclusively designed to pump and dispense lubricant using 14.4 volt battery power. The maximum specification ratings should not be exceeded.

Models and Components

Sales Model	Basic PowerLuber	Battery	Charger	Case
1442	1400	1401	1410	286135
1442E	1400	1401	1410E	286135
1444	1400	1401(2)	1410	286135
1444E	1400	1401(2)	1410E	286135

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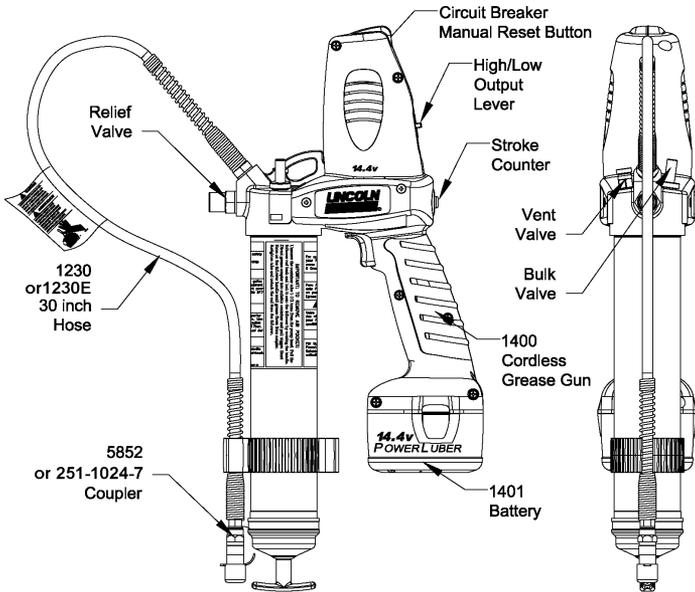


Figure 1

GENERAL DESCRIPTION

The Lincoln PowerLuber is a battery operated grease gun. The gun was developed for manual lubrication of grease points and includes a pressure Safety Valve, a circuit breaker and stroke counter.

The PowerLuber is driven by a small, low voltage electric motor connected to a three-stage planetary gear transmission. The rotary motion of the motor is converted into a reciprocating motion of the plunger using a yoke mechanism. The PowerLuber is a positive displacement single acting pump.

© Relief Valve

The relief 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.

Circuit Breaker

The circuit breaker is used for double protection of the motor. It will stop the motor if gun is run continuously at maximum pressure.

The circuit breaker also is an indication of the bearing or lubrication line conditions. If the red button is popping out this is an indication of clogged or tight bearing, clogged grease fitting or blocked lubrication line. Correct this before resetting and continue lubrication with 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.

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INSPECTION

Visually inspect for damaged, loose or missing parts. If equipment 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 lever (Fig. 1) until letter “L” or “H” will be completely visible in the window.

In case the 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, 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.

- © It is normal for batteries to lose their power retention capacity over hundreds of charge cycles. Replace the battery when this happens.

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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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. Thread grease tube assembly back onto the Powerhead.
7. 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.

**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. 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 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.

4. The battery pack should be recharged when it fails to produce sufficient power on jobs. **DO NOT CONTINUE** to use under these conditions. Follow the charging procedure. You may also charge a partially used pack whenever you desire with no adverse affect on the battery pack.
5. Under certain conditions, with the charger plugged into the power supply, the exposed charging contacts inside the charger can be shorted by foreign material. Foreign materials of a conductive nature such as, but not limited to, steel wool, aluminum foil, or any buildup of metallic particles should be kept away from charger cavities. Always unplug the charger from the power supply when there is no battery pack in the cavity. Unplug charger before attempting to clean.
6. Do not freeze or immerse charger in water or any other liquid.

**WARNING**

Don't allow any liquid to get inside charger. Electric shock may result. To facilitate the cooling of the battery pack after use, avoid placing the charger or battery pack in a warm environment such as a metal shed or an uninsulated trailer.

**CAUTION**

Never attempt to open the battery pack for any reason. If the plastic housing of the battery pack breaks or cracks, return to a service center for recycling.

**Figure 5**



SAFETY INSTRUCTIONS FOR CHARGER AND BATTERIES
SAVE THESE INSTRUCTIONS

This manual contains important safety and operating instruction for Lincoln Model 1410 or 1410E Battery Charger.

DANGER

Risk of Electric Shock 120 VAC or 230 VAC present at charger terminals. Do not probe with conductive objects. Do not charge damaged battery. Replace immediately.

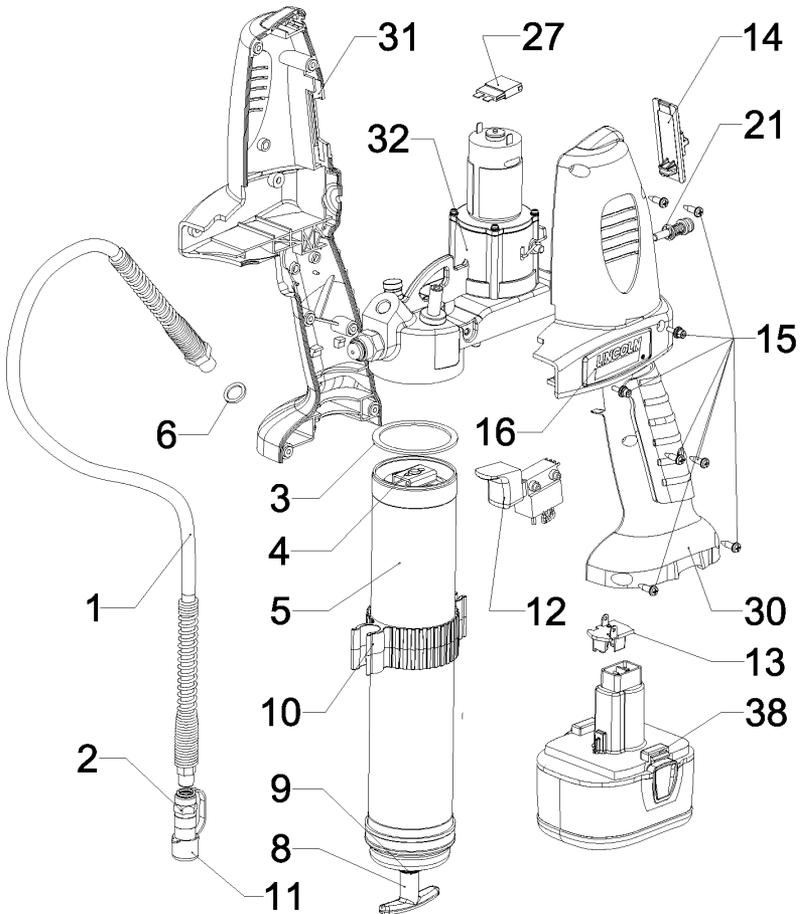
1. Before using a battery charger, read all instructions and cautionary markings on Battery Charger, Battery Pack, and product using battery.
2. CAUTION: To reduce the risk of injury, Lincoln Model 1410 or 1410E Chargers should only be used to charge Lincoln battery pack Model 1401 and 1801. Other types of batteries may burst causing personal injury and damage. Do not charge Lincoln Model 1401 or 1801 Battery Packs with any other charger.
3. Do not expose charger to rain, snow or frost.
4. Do not abuse cord. Never carry charger by cord or yank it to disconnect from receptacle. Pull by plug rather than cord when disconnecting charger. Have damaged or worn power cord and strain reliever replaced immediately. **DO NOT ATTEMPT TO REPAIR POWER CORD.**
5. Make sure cord is located so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress.
6. Do not use an extension cord unless absolutely necessary. Use of improper extension cord could result in a risk of fire and electric shock. If an extension cord must be used, make sure:
 - A That the extension cord is properly wired and in good electrical condition.
 - B Wire size of cord is at least as specified in following chart:

LENGTH OF CORD IN FEET (M)	25 (7.5)	50 (15)	100 (30)	150 (45)
AWG SIZE OF CORD (mm ²)	18 (1)	18 (1)	18 (1)	16 (1.5)

- C If an extension cord is to be used outdoors it must be marked with the suffix W-A following the cord type designations. For example - SJTW-A to indicate it is acceptable for outdoor use.
7. Do not operate charger with damaged cord or plug. Have them replaced immediately, to avoid a hazard **DO NOT ATTEMPT TO REPAIR POWER CORD.**
8. Do not operate charger if it has received a sharp blow, been dropped, or otherwise

- damaged in any way, take it to a qualified service center.
9. Do not disassemble charger or battery pack. Take it to a qualified service center when service or repair is required. Incorrect reassembly may result in risk of electrical shock or fire.
10. Unplug charger from outlet before attempting any maintenance or cleaning to reduce risk of electric shock.
11. Charge the battery pack in a well ventilated place; do not cover the charger and battery with a cloth, etc., while charging.
12. Do not store the charger or battery packs in locations where the temperature may reach or exceed 122° F (50° C) such as a metal tool shed, or a car in the summer which can lead to deterioration of the storage battery.
13. Do not charge battery pack when the temperature is BELOW 32° F (0° C) or ABOVE 104° F (40° C). This is very important for proper operation.
14. Do not incinerate battery pack. It can explode in a fire.
15. Do not charge battery in damp or wet locations.
16. Do not attempt to charge any other cordless tool or battery pack with the Lincoln Model 1410 or 1410E charger.
17. Do not short across the terminals of the battery pack. **EXTREMELY HIGH TEMPERATURES COULD CAUSE PERSONAL INJURY OR FIRE.**
18. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
19. Children should be supervised to ensure that they do not play with the appliance.
20. Dispose of expended batteries properly. The Lincoln Model 1401 and 1801 Battery Pack contains rechargeable, nickel-cadmium batteries. These batteries must be recycled or disposed of properly. Drop off expended battery packs at your local replacement battery retailer, or your recycling center.

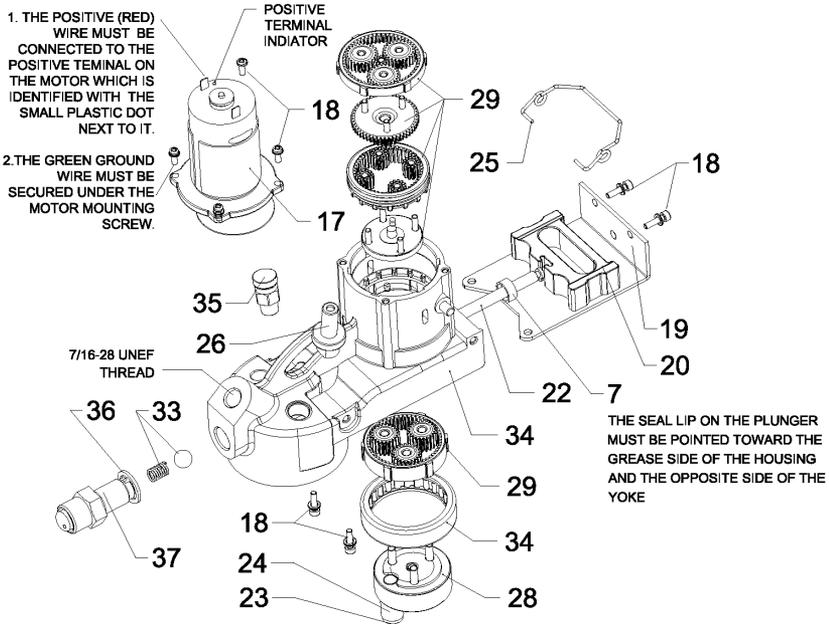
Users in the United States NOTE:
 Applicable fees for the collection and recycling of these batteries have been paid to the RBRCTM. For further information, call 1-800-8BATTERY.



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Figure 6©

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Figure 7©

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Models 1400, 1442, 1442E, 1444, 1444E PowerLuber Grease Gun

Service Parts List©

Item now	Description	Part Number
1	FLEXIBLE HOSE 30" W/GASKET (MODELS 1400, 1442, 1444)	1230
	FLEXIBLE HOSE 30" W/GASKET (MODELS 1442E, 1444E)	1230E
2	COUPLER (MODELS 1400, 1442, 1444)	5852
	COUPLER (MODELS 1442E, 1444E)	251-10124-7
3	PACKING	34793
4	FOLLOWER ASSEMBLY KIT	93485
5	GREASE TUBE ASSEMBLY	271882
6	GASKET KIT (HOSE)	271884
7	SEAL	271889
8	HANDLE KIT (DGREASE TUBE)	286090
9	ROD, FOLLOWER KIT	286091
10	HOSE CLIP KIT	286092
11	COUPLER CAP KIT	286093
12	TRIGGER KIT	286095
13	TERMINAL ASSEMBLY KIT	286096
14	GEAR SELECTOR KIT	286097
15	HANDLE HARDWARE	286100
16	DECAL KIT	286101
17	MOTOR WITH PLATE	286103
18	PUMP HARDWARE	286105
19	COVER PUMP KIT	286106
20	YOKE KIT	286107
21	STROKE INDICATOR	286108
22	PLUNGER KIT	286109
23	STUD KIT	286110
24	ROLLER	286111
25	SPRING SELECTOR	286113
26	VENT/BULK VALVE KIT	286134
27	CIRCUIT BREAKER KIT	286217
28	DRIVER ASSEMBLY KIT	286285
29	GEAR SET KIT	286286
30	HANDLE WITH ELECTRICAL COMPONENT KIT	286303
31	HANDLE WITH SCREW KIT	286304
32	PUMP ASSEMBLY KIT	286305
33	CHECK VALVE KIT	286306
34	HOUSING PUMP WITH BEARING	286307
35	VENT VALVE KIT	286315
36	GASKET KIT (RELIEF VALVE)	286316
37	RELIEF VALVE KIT	286317
38	BATTERY 14.4V	1401
	CHARGER	1410
	STRAP	1414
	CASE	286135

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TROUBLESHOOTING

Condition	Possible Cause	Corrective Action
Motor fails to run.	<ul style="list-style-type: none"> - Battery needs charging. - Faulty wiring to motor. - Circuit Breaker 	Recharge battery. Remove battery, disassemble handle and check wiring for loose connection. Reset Circuit Breaker.
PowerLuber fails to dispense grease.	<ul style="list-style-type: none"> - Grease tube assembly is out of grease. - Loss of prime. - Ball check item 19 is not functioning. 	Check that grease tube assembly has grease. Repeat priming operation. Remove Item 19, clean and inspect ball seat area.
PowerLuber continues to lose prime.	- Air may be trapped in several locations in container after bulk filling.	Empty grease tube assembly, refill and repeat priming instructions.
	- Follower may be binding in grease tube assembly.	*Replace grease tube assembly Item 2. *Disassemble grease tube assembly and clean. *Be sure that follower has properly entered the grease cartridge. <p style="text-align: center;">Or</p> Verify that the follower is not caught on the rim of the grease cartridge.
Battery fails to take a charge.	<ul style="list-style-type: none"> - Charger may not have power. - Battery may be bad. 	Check that receptacle has power. Replace battery.



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