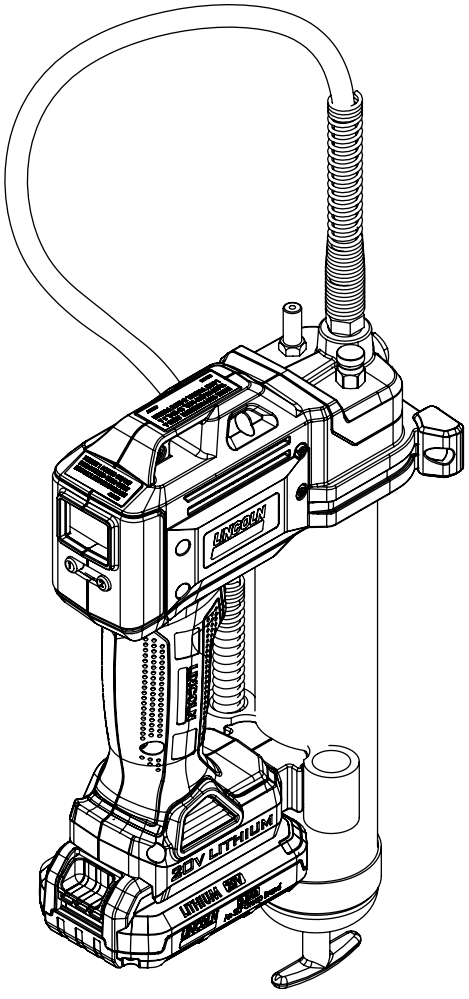
User and maintenance instructions (Original)

PowerLuber grease gun (lithium ion)

1882E, series “A”



Date of issue	**September 2022**
Form number	**404666**
Version	**5**

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* Indicates change.

SKF	Declaration of Conformity*	**DOCUMENT NUMBER** **404666.DoC**

Manufacturer name/address:
Lincoln Industrial Corporation
5148 N. Hanley Road
St. Louis, MO 63134 U.S.A.
TEL: +1 (314) 679-4200 FAX: +1 (314) 679-4367

Authorized to compile the technical file:
SKF Lubrication Systems Germany GmbH
Heinrich-Hertz-Straße 2-8
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EMAIL: robert.collins@skf.com WEBSITE: www.skf.com

CE

This Declaration of Conformity is issued under sole responsibility of the manufacturer. Lincoln Industrial Corporation hereby declares that the machinery stated below:

Name: PowerLuber
Description: Grease gun (lithium-ion)
Model number(s): 1882E

Name: PowerLuber battery
Description: 20 V Battery (lithium-ion)
Part number: 1871

Name: PowerLuber battery charger
Description: 230 V Charger (EU)
Part number: 1870E

Year of CE: 2018

in its intended use, is in conformity with the relevant union harmonization legislation:

Low Voltage Directive (LVD)
2014/35/EU

Electromagnetic Compatibility (EMC)
2014/30/EU

Hazardous Substances (RoHS2)
2011/65/EU

Hazardous Substances (RoHS3)
(EU) 2015/863

Battery according to Directive
2006/66/EC

Packaging according to Directive
94/62/EC

conforms to the following harmonized standards:

EN 55014-1:2017

EN 55014-2:2015

EN 13427: 2004

EN IEC 62133:2017

EN IEC 6300:2018

and conforms to RoHS stating that homogeneous material levels are less than or equal to 0.1% by weight.

The manufacturer maintains a technical file summary sheet containing test reports and product documentation:

Technical file summary sheet number:
RA404666

I, the undersigned of Lincoln Industrial Corporation, do hereby declare that the equipment specified above, in its intended use, conforms to the requirements of the above directives and harmonized standards at the time of placing the above product on the market.



Robert Collins
Technical Compliance Manager
St. Louis, MO, U.S.A.
2022/05/16

* Indicates change.

SKF	U.K. Declaration of Conformity*	DOCUMENT NUMBER UK404666CA

Manufacturer name/address:
Lincoln Industrial Corporation
5148 N. Hanley Road
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TEL: +1 (314) 679-4200 FAX: +1 (314) 679-4367

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UKCA

This U.K. Declaration of Conformity is issued under sole responsibility of the manufacturer. Lincoln Industrial Corporation hereby declares that the machinery stated below:

Name: PowerLuber
Description: Grease gun (lithium-ion)
Model number(s): 1882E

Name: PowerLuber battery
Description: 20 V Battery (lithium-ion)
Part number: 1871

Name: PowerLuber battery charger
Description: 230 V Charger
Part number: 1870E

Year of CE: 2018

in its intended use, is in conformity with the relevant union harmonization legislation:

Supply of Machinery (Safety) Regulations 2008 (S.I. 2008:1597)

Electrical Equipment (Safety) Regulations 2016 (S.I. 2016:1101)

Electromagnetic Compatibility Regulations 2016 (S.I. 2016:1091)

The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (S.I. 2012:3032)

conforms to the following harmonized standards:

EN 55014-1:2017

EN 55014-2:2015

EN 13427: 2004

EN IEC 62133:2017

EN IEC 6300:2018

and conforms to RoHS stating that homogeneous material levels are less than or equal to 0.1% by weight.

The manufacturer maintains a technical file summary sheet containing test reports and product documentation:

Technical file summary sheet number: RA404666

I, the undersigned of Lincoln Industrial Corporation, hereby declare that the equipment specified above, in its intended use, conforms with all requirements of the U.K. legislation Supply of Machinery (Safety) Regulations 2008 No. 1597 by the time of placing it on the market.



Robert Collins
Technical Compliance Manager
St. Louis, MO, U.S.A.
2022/04/05

* Indicates change.

Safety*

The assembly must be installed, maintained and repaired exclusively by persons familiar with the instructions.

Always disconnect power source (electricity, air or hydraulic) from the equipment when it is not being used.

This equipment generates high pressure. Extreme caution should be used when operating this equipment as material leaks from loose or ruptured components can inject fluid through the skin and into the body. If any fluid appears to penetrate the skin, seek attention from a doctor immediately. Do not treat injury as a simple cut. Tell attending doctor exactly what type of fluid was injected.

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

- Do not misuse, over-pressurize, modify parts, use incompatible chemicals, fluids, or use worn and/or damaged parts.
- Do not exceed the stated maximum working pressure of the equipment or of the lowest rated component in your system.
- Always read and follow the manufacturer's recommendations regarding fluid compatibility, and the use of protective clothing and equipment.
- Failure to comply may result in personal injury and/or damage to equipment.

Explanation of signal words for safety

NOTE

Emphasizes useful hints and recommendations as well as information to prevent property damage and ensure efficient trouble-free operation.

⚠ CAUTION

Indicates a dangerous situation that can lead to light personal injury if precautionary measures are ignored.

⚠ WARNING

Indicates a dangerous situation that could lead to death or serious injury if precautionary measures are ignored.

⚠ DANGER

Indicates a dangerous situation that will lead to death or serious injury if precautionary measures are ignored.

⚠ WARNING



Do not operate equipment without reading and fully understanding safety warnings and instructions.

Failure to follow warnings and instructions may result in serious injury.

⚠ CAUTION

Do not operate equipment without wearing personal protective gear.

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.

Failure to comply may result in light personal injury.



⚠ WARNING



Do not allow any body part to be trapped by equipment.

Body parts can be crushed by subassemblies during operation.

Failure to comply may result in death or serious physical injury.

⚠ WARNING



Do not allow fluid to leak onto floor when operating equipment. If spill occurs, clean any fluid on floor before continuing operation.

Failure to comply may result in death or serious personal injury.

⚠ WARNING

Do not use this equipment to supply, transport, or store hazardous substances and mixtures in accordance with annex I part 2-5 of the CLP regulation (EG 1272/2008) or HCS 29 CFR 1910.1200 marked with GHS01, GHS06 and GHS08 hazard pictograms shown:



* Indicates change.

Intended use

PowerLuber is exclusively designed to pump and dispense lubricant using 20 V battery power. Do not exceed maximum specification ratings.

⚠ WARNING

Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

Safety instructions

General power tool safety warnings

Save all warnings and instructions for future reference. The term "**power tool**" in warnings refers to mains-operated (corded) power tool or battery-operated (cordless) power tool.

1 Work area safety

1.1 Keep work area clean and well lit. Cluttered or dark areas invite accidents.

1.2 Do not operate power tools in explosive atmospheres, such as in presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.

1.3 Keep children and bystanders away while operating power tool Distractions can cause loss of control.

2 Electrical safety

2.1 Power tool plugs must match the outlet. Never modify 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.

2.2 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.

2.3 Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

2.4 Do not abuse the cord. Never use 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.

2.5 When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of cord suitable for outdoor use reduces risk of electric shock.

2.6 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)" can be replaced by the term "ground fault circuit interrupter (GFCI)" or "earth leakage circuit breaker (ELCB)".

3 Personal safety

3.1 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.

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

3.3 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 energising power tools that have the switch on invites accidents.

3.4 Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of power tool may result in personal injury.

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

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

3.7 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.

3.8 Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles. A careless action can cause severe injury within a fraction of a second.

4 Power tool use and care

4.1 **Do not force the power tool. Use 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.

4.2 **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.

4.3 **Disconnect the plug from the power source and/or remove the battery pack, if detachable, 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.

4.4 **Store idle power tools out of the reach of children and do not allow persons unfamiliar with power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.

4.5 **Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.

4.6 **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

4.7 **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.

4.8 **Keep handles and grasping surfaces dry, clean and free from oil and grease.** Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

5 Battery tool use and care

5.1 **Recharge only with the battery charger specified by the manufacturer.** A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.

5.2 **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.

5.3 **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 battery terminals together may cause burns or fire.

5.4 **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.** Liquid ejected from the battery may cause irritation or burns.

5.5 **Do not use a battery pack or tool that is damaged or modified.** Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.

5.6 **Do not expose a battery pack or tool to fire or excessive temperature.** Exposure to fire or temperature above 130 °C may cause explosion. NOTE The temperature "130 °C" may be replaced by the temperature "265 °F".

5.7 **Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions.** Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

6 Service

6.1 **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.

6.2 **Never service damaged battery packs.** Service of battery packs should only be performed by the manufacturer or authorized service providers.

Safety of others

This appliance is not intended for use by persons 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.

Children should be supervised to ensure that they do not play with the appliance.

Specific safety

PowerLuber can generate up to 10 000 psi *(689 bar)*. Use only Lincoln 1218, 1224, 1230 or 1236 outlet whip hoses. Grease injection injuries are very serious injury. Hold hose only in area of spring guard.

- Avoid accidental start.
- Be sure switch is not depressed when inserting battery pack.
- Replace hose at first sign of wear, kink or damage to outside jacket.
- Do not bend hose so it becomes kinked.
- Do not overreach. Keep proper footing and balance at all times. Proper footing and balance enable better control of 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.
- Do not use gun near open flame or other fire hazards.
- Do not ingest lubricants.
- Gun uses lubricants that may be flammable. Greases are often marketed as high temperature because gun must maintain lubricating properties in hot areas, but lubricants may be flammable if temperature is too high.
- Read all warnings on lubricants before using gun.

⚠ WARNING

Do not use any hose that has not been approved by SKF. Extreme pressure may cause nozzle extension or whip hose to burst.

Replace hose at first sign of wear, kinks, or damage to outside jacket.

Follow whip hose instructions and warnings.

Failure to comply may result in death or serious injury.

⚠ DANGER

Grease gun can develop high pressure up to 10 000 psi *(689 bar)*. Use safety glasses and gloves for protection during operation. Keep hands clear of exposed rubber portion of hose.

Failure to comply will result in death or serious injury.

Residual risks

Additional residual risks may arise when using the tool which may not be included in the enclosed safety warnings. These risks can arise from misuse, prolonged use etc.

Even with the application of the relevant safety regulations and the implementation of safety devices, certain residual risks can not be avoided.

These include:

- Injuries caused by touching any rotating/ moving parts.
- Injuries caused when changing any parts, accessories.
- Injuries caused by prolonged use of a tool. When using any tool for prolonged periods ensure you take regular breaks.
- Impairment of hearing.
- Health hazards caused by breathing dust developed when using your tool (example: -working with wood, especially oak, beech and MDF.)

Vibration

The declared vibration emission values stated in the technical data and the declaration of conformity have been measured in accordance with a standard test method provided by EN 62841 and may be used for comparing one tool with another. The declared vibration emission value may also be used in a preliminary assessment of exposure.

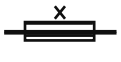
When assessing vibration exposure to determine safety measures required by 2002/44/EC to protect persons regularly using power tools in employment, an estimation of vibration exposure should consider, the actual conditions of use and the way the tool is used, including taking account of all parts of the operating cycle suchsuch as the times when the tool is switched off and when it is running idle in addition to the trigger time.

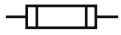
NOTE

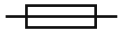
Vibration emission value during actual use of power tool can differ from declared value depending on ways tool is used. Vibration level may increase above level stated.

Labels on battery charger

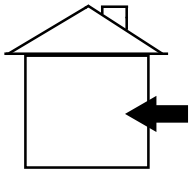
The following symbols are shown on tool:


Time-lag miniature fuze link, 3.15A


IEC


IEEE/ANSI


IEEE/ANSI



⚠ CAUTION

Do not stare into light beam.

Failure to comply may lead to light personal injury.

Maintenance

PowerLuber has been designed to operate over a long period of time with minimum maintenance. Continuous satisfactory operation depends upon proper tool care and regular cleaning.

Charger does not require any maintenance apart from regular cleaning.

⚠ WARNING

Do not perform maintenance on this grease gun with the battery installed. Unplug charger before cleaning.

- Do not clean the charger while plugged into an electrical outlet.
- Failure to comply may result in serious injury and/or death.

NOTE

Regularly clean ventilation slots in tool and charger using a soft brush or dry cloth.

Regularly clean motor housing using a damp cloth. Do not use any abrasive or solvent-based cleaner.

Regularly open chuck and tap it to remove any dust from interior.

⚠ WARNING

Do not operate this grease gun without reading instruction manual.

Failure to comply may result in serious injury and/or death.



Protect environment

Do not dispose of Lincoln product with household waste . Make product available for separate collection.

Local regulations may provide for separate collection of electrical products from household, at municipal waste sites or by retailer when purchasing new product.

NOTE

Separate collection. Do not dispose of



with normal household waste.

NOTE

Separate collection of used products and packaging allows materials to be recycled and used again.

Reuse of recycled materials helps prevent environmental pollution and reduces demand for raw materials.

NOTE



Run battery down completely and remove from tool.

NiCd, NiMH and Li-Ion batteries are recyclable.

Take to any authorized repair agent or local recycling.

Safety instructions for battery and charger

Save instructions

This manual contains important safety and operating instruction for Lincoln model 1870E battery charger.

⚠ DANGER

Do not probe with conductive objects.
Risk of electric shock 120 V AC or 230 V AC present at charger terminals.
Failure to comply will result in death or serious injury.

Read all instructions

Batteries

- Never attempt to open for any reason.
- Do not expose the battery to water.
- Do not store in locations where the tem-perature may exceed 50 °C *(122 °F)* such as outside sheds or metal buildings in the summer.
- Charge only at ambient temperatures between 5 and 40 °C *(40 and 105 °F)*.
- Charge only using the charger provided with the tool.
- When disposing of batteries, follow the instructions given in the section *Protect environment*, **page 9**.

⚠ WARNING

Do not expose battery to fire. Battery liquid may burn.
Failure to comply may result in death or serious injury.



NOTE

Do not charge damaged battery. Replace immediately.



NOTE

Do not expose battery to water or other liquids. This may cause premature cell failure.

⚠ DANGER

Never attempt to open battery pack for any reason. If plastic housing of battery pack breaks or cracks, return to service center for recycling.
Failure to comply may result in death or serious injury.

⚠ DANGER

Do not charge SKF model 1871 battery packs with any other charger.

To reduce risk of injury, Lincoln model 1870 or 1870E chargers should only be used to charge Lincoln battery pack model 1871. Other types of batteries may burst.

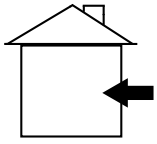
Failure to comply will result in serious personal injury or death.

Charger

- Before using a battery charger, read all instructions and cautionary markings on battery charger, battery pack, and product using battery.
- Do not expose charger to rain, snow or frost.
- Do not abuse cord. Never carry charger by cord or pull on 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.
- Locate cord so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress.
- Do not use an extension cord unless absolutely necessary. Use of improper extension cord could result in a risk of fire and electric shock.
- Do not operate charger with damaged cord or plug. Replace immediately, to avoid a hazard. Do not attempt to repair power cord.
- 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.
- 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.
- Unplug charger from outlet before attempting any cleaning to reduce risk of electric shock.
- Charge the battery pack in a well ventilated place; do not cover the charger and battery with anything while charging.
- Do not store the charger or battery packs in locations where the temperature may reach or exceed 50 °C *(122 °F)* such as a metal tool shed, or a car in the summer which can lead to deterioration of the battery.
- Do not charge battery pack when the temperature is below 5 °C *(40 °F)* or above 40 °C *(105 °F)*. This is very important for proper operation.
- Do not incinerate battery pack. It can explode in a fire.
- Do not charge battery in damp or wet locations.
- Do not attempt to charge any other cordless tool or battery pack with Lincoln model 1870 series charger.
- Do not short across the terminals of the battery pack. Extremely high temperatures could cause personal injury or fire.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities. Do not use this appliance if not experienced or have knowledge of how it operates.
- Dispose of expended batteries properly. The SKF TLGB 20-2 battery pack contains rechargeable, lithium-ion 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.

NOTE

Charger is intended for indoor use only.



NOTE

Read instruction manual before use.



NOTE

Do not attempt to replace charger unit with regular main plug. Charger is double insulated and no ground wire is required. Check mains voltage corresponds to voltage on rating plate.

Electrical safety

If supply cord is damaged, it must be replaced by manufacturer or authorized Lincoln service center in order to avoid hazard.

Tool use and care

- Do not continue to hold down trigger if grease gun is stalled. This could damage motor or cause fire.
- Disconnect battery pack from tool before making any adjustments, changing accessories, or storing tool. Such preventive safety measures reduce risk of starting tool accidentally
- Store tools out of reach of children and other untrained persons. Tools are dangerous in hands of untrained users
- If damaged, have tool serviced before using. Many accidents are caused by poorly maintained tools.
- Use only accessories recommended by Lincoln. Only accessories capable of handling 10 000 psi *(689 bar)* should be used. Accessories suitable for one tool may create risk of injury when used on another tool.

Description

Lincoln PowerLuber is a lithium-ion battery operated grease gun. Gun was developed for manual lubrication of grease points and includes light emitting diode (LED) and electronic control center.

PowerLuber is driven by a small, low voltage electric motor connected to a gear transmission. Rotary motion of motor is converted into reciprocating motion of plunger using yoke mechanism. PowerLuber is a positive displacement single acting pump.

Technology incorporated into 1880 series PowerLuber includes:

1. Motor protection preventing overload due to excessive current draw. Display will flash red when this occurs.
2. An LCD showing battery charge, pump speed and grease output.
3. An illuminating LED light to help locate grease fittings in dim light.

Specifications

Basic PowerLuber model 1880

Operating power	14.5 to 20 V DC
Maximum operating pressure [1]	
Low output	6 000 psi *(413 bar)*
High output	6 000 psi *(413 bar)*
Grease reservoir capacity	14.5 oz. *(411 g)*
Maximum peak pressure	10 000 psi *(689 bar)*
Operating temperature range	0 to 120 °F *(–18 to 50 °C)*
Operating current	4 A at 20 to 130 °F *(–6 to 54 °C)*
Rated current	5 A at 20 to 130 °F *(–6 to 54 °C)*
Lubricant (grease)	Up to NLGI #2
Grease output	
Low output (L)	3.5 oz/min. *(0,103 l/min.)*
High output (H)	5.5 oz/min. *(0,162 l/min.)*
Weight	6.5 lbs *(2,0 kg)*
Accessories	
Battery li-ion	Model 1871
Output	20 V DC maximum
Capacity	2 500 mAh
Battery charger	Model 1870
Charge time	1.5 hours
Input, vac (0.6 A)	120 v, 60 hz
Outlet hose	Model 1236
Pressure rating	10 000 psi *(689 bar)*
Length of hose	36 in *(914 mm)*

Sound pressure LpA 69.5 dB(A), uncertainty (K) 3 dB(A), Acoustic power LwA 80.5 dB(A), uncertainty (K), 3 db(A), Vibration emission value (ah) 0.6 m/s^2, uncertainty (K) 1.5 m/s^2.

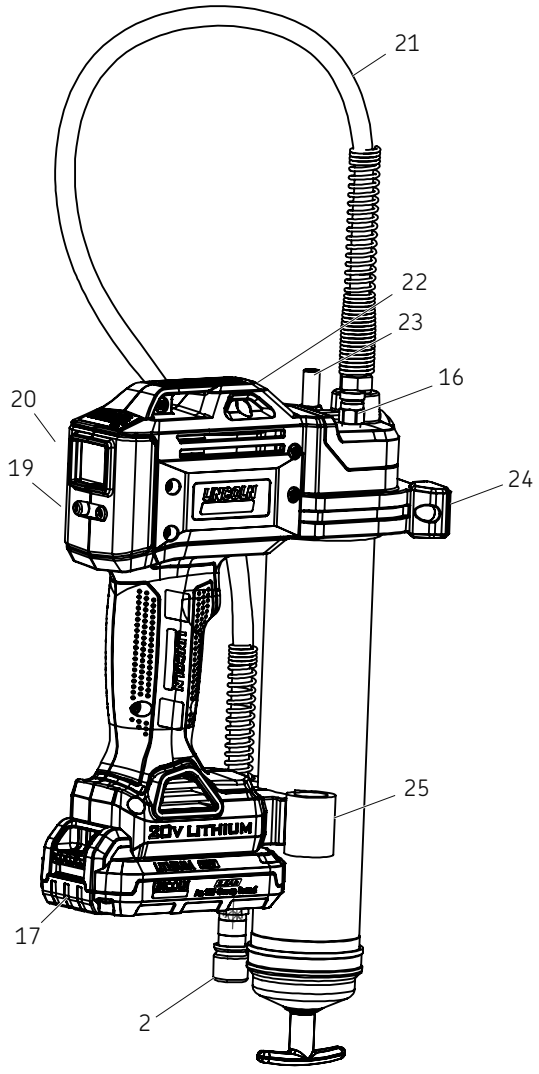
1) Gun will operate continuously under stated maximum operating pressure until motor's thermal protection activates. If maximum operating pressure is exceeded, pump will momentarily stall and run intermittently until maximum peak pressure is reached.
2) Operating current and grease output data at 1 000 psi (*69 bar*).
3) The declared vibration total value has been measured in accordance with a standard test method and may be used for comparing one tool with another and the declared vibration total value may also be used in a preliminary assessment of exposure.
4) The vibration emission during actual use of the power tool can differ from the declared total value depending on the ways in which the tool is used; and of the need to identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).
5) Flow meter accuracy compromised below freezing.

Models

Sales model	Components included
1882E	Grease gun with battery, charger 230 V AC European and carrying case
1870E	Charger 230 V AC European
1871	Battery pack
1236	Hose, 36 in (*914 mm*)
5852	Coupler, midget hydraulic
251-10124-7	Coupler (European)

Fig. 1

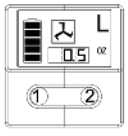
1880 Grease gun



Parts

Item	Part
2	Coupler
16	Vent valve
17	Battery
19	Control button
20	Display
21	Hose
22	LED light
23	Bulk valve
24	Support
25	Hose holder

Fig. 2



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

Speed selection

Pressing button 2 switches the tool between high and low pump speed. The letter “L” or “H” will be displayed on the screen.

High delivers 5.5 ounces (*0,162 l*) per minute at 1 000 psi (*68 bar*) back pressure.

Low delivers 3.5 oz. *(0, 103 l*) per minute at 1 000 psi (*68 bar*) back pressure.

Motor speed increases automatically from “L” to “H” if back pressure exceeds 2 500 psi *(172 bar)*.

LCD display and LED light

1. Button number 1 turns on/off the LED.
2. Button number 1 turns on display.
3. The tool’s trigger also turns on the LED and display.
4. The LCD and display will turn off after 30 seconds.

NOTE

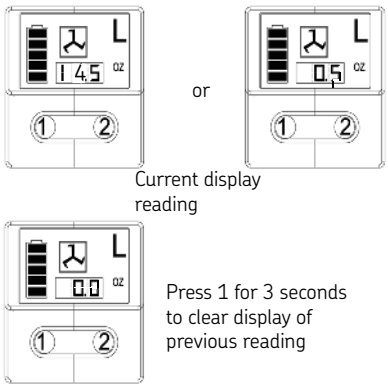
Grease meter is accurate and does not show output if prime is lost.

Change unit of measure to ounces or grams by holding button “1” for 15 seconds.

Grease flow monitoring

- LCD shows output of grease delivered in ounces or grams.
- Change unit of measure to ounces or grams by holding button “1” for 15 seconds.
- Flow accuracy is +/- 10% at ambient temperature 32 °F *(0 °C)* to 95 °F *(+35 °C)* and back pressure 0 psi to 4 000 psi *(0 bar to 275 bar)*. Precise delivery is not measured outside these parameters.
- Meter accuracy is valid for use with NLGI 1 and 2 EP Lithium grease.
- Resolution of meter is .1 oz and 0.1 g.

Fig. 3



NOTE

Air pockets in cartridge lubricant will cause gun to lose prime causing grease output measurements and cartridge level readings to be inaccurate.

NOTE

Always open vent valve after replacing cartridge. This will allow air to escape from cartridge and prime grease gun.

Replace grease cartridge or refill tube

1. Prime PowerLuber after each refill or grease cartridge change. To prime, operate gun until grease flows from hose. Use vent valve to expel air pockets.
2. Press button 1 for 3 seconds to clear display of previous reading.

Priming instructions

1. Open vent valve (**16**) (**→ fig. 1**, **page 14**).
2. Operate gun until grease flows from vent valve.
3. Close vent valve.
4. Press button “1” 3 seconds to clear display of previous reading.

Install grease cartridge

1. Unscrew grease tube assembly from PowerLuber.
2. Pull back on follower handle and latch follower rod groove into slot on tube cap.
3. Remove plastic cap from grease cartridge and insert cartridge into container tube.
4. Remove pull tab from grease cartridge and screw grease tube assembly into pump assembly.
5. Thread grease tube assembly back onto power head.
6. Release follower rod from slot. Purge air from pump. Refer to **page 15** for air purging instructions.
7. Reset display reading after purging air.
8. Refer to section titled **LCD display and LED light**, **page 14**.

Filling gun from bulk container

1. Remove pump assembly from grease tube assembly.
2. Pack lubricant into cavity of pump assembly.
3. Insert open end of grease tube assembly into lubricant. Slowly pull follower handle back while pushing grease tube assembly deeper into lubricant to prevent air pockets from being pulled into grease tube.
4. With follower rod fully extended, pull it sideways to latch rod groove into slot in grease tube assembly cap.
5. Loosely assemble pump to te grease tube assembly. Release follower rod from grease tube assembly cap and disengage follower rod from follower by rotating follower handle.
6. Push follower rod into grease tube assembly.
7. Unscrew grease tube assembly from pump until lubricant oozes from interface. Tighten grease tube assembly into pump assembly.
8. Reset display reading after purging air.
9. Refer to section titled **LCD display and LED light**,(→ **page 14**).

Filling gun with filler pump

1. Engage follower rod with follower by rotating follower handle.
2. Insert gun bulk fill valve into filler pump socket.
3. Operate filler pump to fill container- Do not overfill! When follower rod groove is exposed, grease tube assembly is filled. Follower rod will be extended approximately 8 in *(20 cm)*.
4. Disengage follower rod from follower by rotating follower handle.
5. Push follower rod into grease tube assembly.
6. Reset display reading after purging air.

NOTE

Remove air pocket! Air pocket at grease inlet will prevent grease from being pumped. Unscrew the vent valve three to four 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, refer to the following steps.

Expelling air pockets (air purging)

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

Charger operation

Charging battery pack

Before using PowerLuber first time, battery pack should be fully charged. If battery pack is installed in PowerLuber, remove and follow charging procedure.

Lincoln chargers are designed to charge Lincoln lithium-ion batteries in 30 to 90 minutes depending on battery state opf charge and temperature.

Charging procedure

Make sure power circuit voltage is as shown on charger specification plate.

1. Plug charger into appropriate outlet before inserting battery pack.
2. Insert battery pack into charger. Green (charging) light will blink continuously indicating that charging process has started.
3. Completion of charge will be indicated by green light remaining on continuously. Pack is fully charged and may be used at this time.
4. Disconnect charger from power source when not in use.

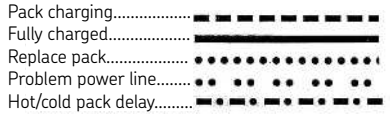
⚠ CAUTION

Do not probe with conductive objects. 120/230 V AC present at charging terminals.

Failure to comply may result in death or personal injury.

Fig. 4

Indicator light operation



NOTE

Battery temperature will increase during and shortly after use. Batteries may not accept a full charge if they are charged immediately after use. Allow the battery pack to cool to room temperature before charging for best results.

NOTE

Do not charge battery when temperature is below 40 °F *(5 °C)* or above 104 °F *(40 °C)*.

Vent slots in top and bottom of charger must not be obstructed.

Important charging notices

Longest life and best performance can be obtained if the battery is charged when the air temperature is between 65 and 75 °F *(18 and 24 °C)*. Do not charge the battery in an air temperature below 40 °F *(5 °C)* or above 105 °F *(41 °C)*. This is important and will prevent serious damage to the battery.

1 The charger and battery may become warm to the touch while charging. This is a normal condition, and does not indicate a problem.

2 If the battery does not charge properly:

2.1 Check current at receptacle by plugging in a lamp or other appliance.

2.2 Check to see if the receptacle is connected to a light switch which turns power off when you turn out the lights.

2.3 Move charger and battery to a location where the surrounding air temperature is between approximately 65 and 75 °F *(18 and 24 °C)*.

2.4 If charging problems persist, take the tool, battery and charger to your local service center.

3 The battery 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.

4 Under certain conditions, with the charger plugged into the power supply, exposed charging contacts of the charger can be shorted by foreign material. Foreign materials of a conductive nature such as, but not limited to, steel wool, aluminium 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 in the cavity. Unplug charger before attempting to clean.

⚠ WARNING

Do not allow any liquid to get inside charger. Electric shock may result.

To facilitate cooling of battery pack after use, avoid placing charger or battery pack in a warm environment such as a metal shed or an non-insulated trailer.

Failure to comply may result in serious injury or death.

Indicator light description

Pack charging	Battery is charging (flashing green).
Fully charged	The charge is complete (solid green).
Replace pack	Replace battery (flashing red at fast rate).
Problem power line	Charger detected a weak or damaged battery. Stop charging battery.
Hot/cold pack delay	Charger detected battery that is excessively hot or cold. It automatically starts a hot/cold pack delay, suspending charging until temperature of battery have normalized. After this, charger automatically switches to battery charging mode.

Fig. IPB 1

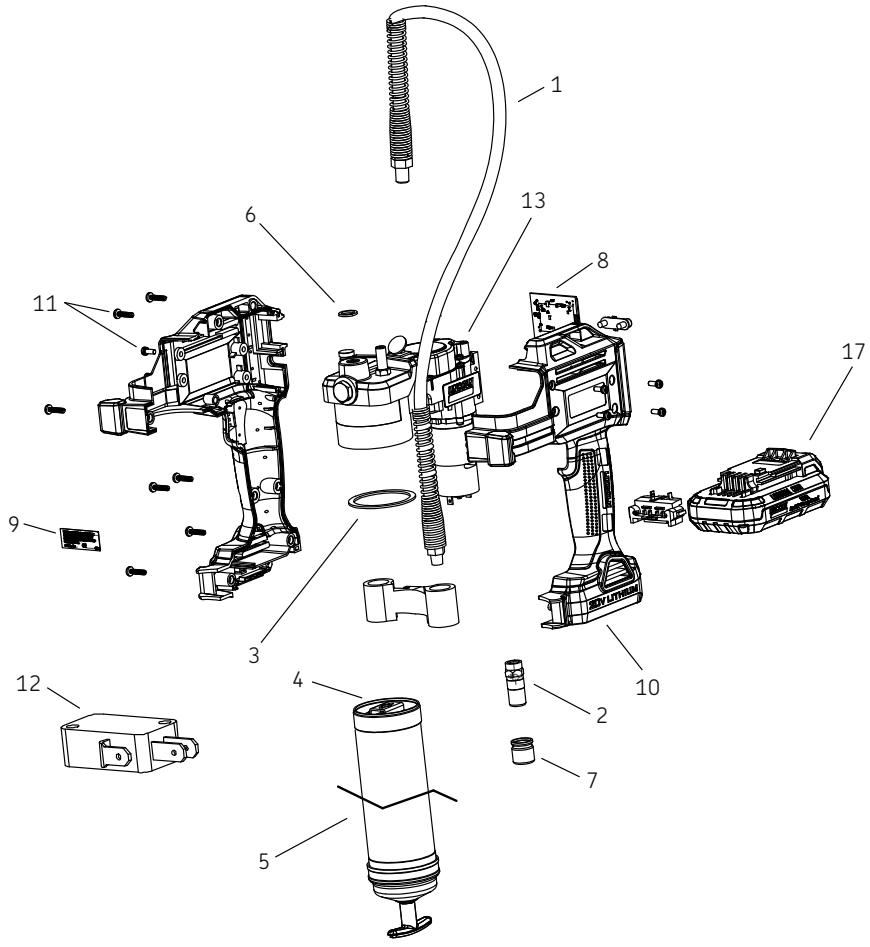
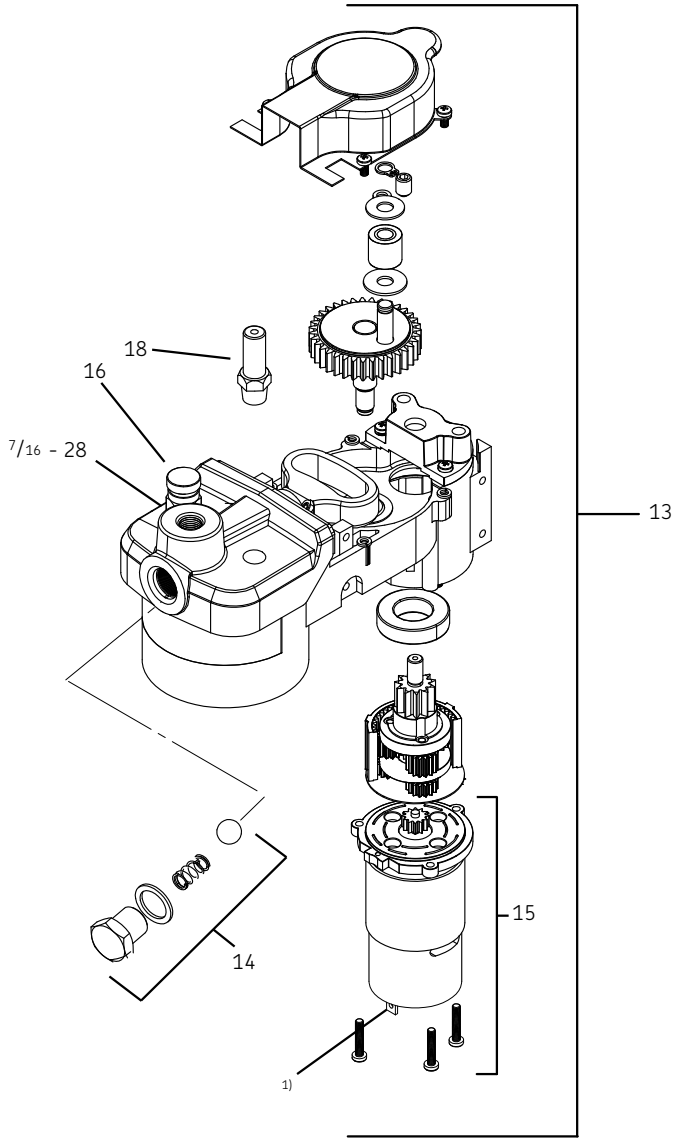


Fig. IPB 2



1) Positive (red) wire must be connected to the positive terminal on the motor. Small plastic dot identifies the positive terminal.

Service parts list

Item	Description	Part number
1	Flexible hose 36 in(*914 mm*) with gasket	1236
2	Coupler	5852 [1]
	Coupler (European)	251-10124-7S [1]
3	Packing	34793
4	Follower assembly kit	272072
5	Grease tube assembly	271882
6	Gasket kit (hose)	260322
7	Coupler cap kit	286419
8	Electrical components kit	280095
9	Decal kit	280068
10	Handle with electrical component kit	280096
11	Handle with screw kit	280070
12	Switch kit	280071
13	Pump assembly kit	280092
14	Check valve kit	280073
15	Motor with adapter kit	280093
16	Vent valve kit	286315
17	Battery 20 V (lithium)	1871
18	Filler nipple	91108
Not shown	Charger, European, 220 - 240 V AC	1870E
Not shown	Strap	1414
Not shown	Case kit	280085

[1] Either coupler is compatible.

Troubleshooting

Condition	Possible cause	Corrective action
PowerLuber fails to dispense grease.	Grease tube assembly is out of grease.	Check that grease tube assembly has grease.
	Loss of prime.	Repeat priming operation.
	Ball check (**14**) is not functioning.	Remove ball check (**14**), clean and inspect ball seat area.
	Clogged whip hose.	Clean or replace whip hose.
Display flashing red due to motor overload.	Blocked lube point.	Inspect lube point for blockages and take appropriate action to remedy.
	Clogged whip hose.	Clean or replace whip hose.
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.	Disassemble grease tube assembly and clean. Be sure that follower has properly entered grease cartridge.
		Verify that the follower is not caught on rim of grease cartridge.
		Replace grease tube assembly (**5**) if damaged.
	Check ball seat and check ball dirty.	Clean check ball and check ball seat.
Battery fails to take a charge.	Charger may not have power.	Check that receptacle has power.
	Battery may be bad.	Replace battery.
Motor fails to run.	Battery needs charging.	Recharge battery.
	Faulty wiring to motor.	Remove battery, disassemble handle and check wiring connections on terminal, trigger switch and motor.

Warranty

The instructions do not contain any information on the warranty. This can be found in the General Conditions of Sales, available at: www.lincolnindustrial.com/technicalservice or www.skf.com/lubrication.

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