



Owner's Manual for Charger and Batteries

CHARGER OPERATION

CHARGING THE BATTERY PACK

Before using your PowerLuber for the first time, the battery pack should be charged for 12 hours.

CHARGING PROCEDURE

Make sure power circuit voltage is the same as that shown on the charger specification plate, Connect charger to power source.

- 1. Plug the charger into an appropriate outlet before inserting battery pack.
2. With the red light off, insert the battery pack into the charger. The red (charging) light will blink continuously indicating that the charging process has started.
3. The completion of charge will be indicated by the red light remaining ON continuously. The pack is fully charged and may be used at this time.
4. The battery pack may be left on the trickle charge until you are ready to use.
5. Disconnect charger from power source when not in use.

INDICATOR LIGHT OPERATION

BATTERY CHARGING..... [dash] [dash] [dash] [dash] [dash]
BATTERY CHARGED..... [solid bar]
DEFECTIVE BATTERY..... [dot] [dot] [dot] [dot] [dot] [dot] [dot] [dot] [dot] [dot] [dot] [dot] [dot] [dot] [dot] [dot] [dot]
PROBLEM POWER LINE..... [dot] [dot] [dot] [dot] [dot] [dot]

DEFECTIVE BATTERY INDICATOR

The charger is designed to detect certain problems that can arise with battery packs.

Weak battery pack - The red light flashes at a fast rate indicating a weak battery pack.

Shorted battery pack - With the charger plugged in and a battery is inserted the red light will not come on if the battery pack is shorted.

If either of these problems occur, re-insert battery pack into the charger. If the problem persists, try a different battery pack to determine if the charger is O.K. If the new pack charges correctly, then the original pack is defective and should be returned to a service center or other collection site for recycling. If the new battery pack elicits the same trouble indication as the original, have the charger tested at an authorized service center.

LEAVING THE BATTERY PACK IN THE CHARGER

The charger and battery pack can be left connected with the red light glowing indefinitely. The charger will keep the battery pack fresh and fully charged.

NOTE: A battery pack will slowly lose its charge when kept out of the charger. If the battery pack has not been kept on maintenance charge, it may need to be recharged before use. A battery pack may also slowly lose its charge if left in a charger that is not plugged into an appropriate source.

As a battery pack approaches the discharged state, you will notice a sharp drop in tool performance. When the tool is unable to perform the task at hand, it is time to recharge the battery pack. Recharging the battery pack before this condition is reached will reduce the total work life of the pack. Discharging the pack beyond this point can damage the pack.

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.

CAUTION: Vent slots in top and bottom of charger must not be obstructed. Do not charge battery when temperature is BELOW 32°F (0° C) or ABOVE 104°F (40° C).


PRODUCT SPECIFICATIONS

- Input voltage range..... 12 vdc to 24 vdc
Input current..... 12 vdc @ 3.9 amps
  24 vdc @ 1.9 amps
Output..... 14.4 vdc @ 2 amps
  18.0 vdc @ 2 amps
Time to Charge 1401/1801
Battery..... 1 hour approximately
Cord Length..... 6 ft (2 m)
Indicator Light ..... Red
Weight..... 2.2 lb. (1.01Kg)

Table with 4 columns: Americas (One Lincoln Way, St. Louis, MO), Europe/Africa (Heinrich-Hertz-Str 2-8, Walldorf, Germany), Asia/Pacific (51 Changi Business Park, Singapore), and Copyright/Printed info (© Copyright 2011, Printed in China, Web site: lincolnindustrial.com)

**Important Charging Notes**

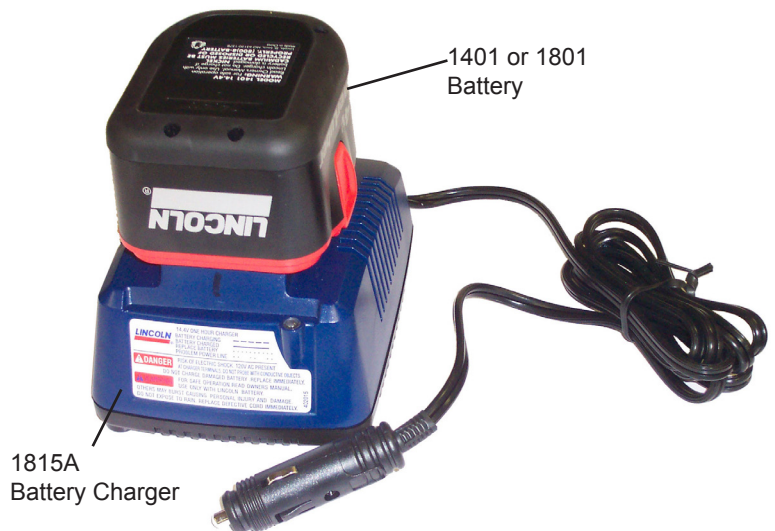
1. Longest life and best performance can be obtained if the battery pack is charged when the air temperature is between 65°F and 75°F (18° - 24°C). DO NOT charge the battery pack in an air temperature below +40°F (+4.5°C) or above 105°F (+40.5°C). This is important and will prevent serious damage to the battery pack.
2. The charger and battery pack may become warm to the touch while charging. This is a normal condition, and does not indicate a problem.
3. If the battery pack does not charge properly:
  - a. Check for correct input voltage to charger.
  - b. Move charger and battery pack to a location where the surrounding air temperature is approximately 65°F - 75°F (18 - 24°C).
  - c. If charging problems persist, take the tool, battery pack and charger to your local service center.
4. The battery pack should be recharged when it fails to produce sufficient power on jobs which were easily done previously. 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.





**SAFETY INSTRUCTIONS FOR CHARGER AND BATTERIES**  
**SAVE THESE INSTRUCTIONS**

This manual contains important safety and operating instruction for Lincoln Model 1815A Battery Charger.

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 1815A Charger should only be used to charge Lincoln battery pack Model 1401 & 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.
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 serviceman.
9. Do not disassemble charger or battery pack. Take it to a qualified serviceman 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 (such as a metal tool shed, or a car in the summer) where the temperature may reach or exceed 122°F (50°C), 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 1815A charger.
17. Do not short across the terminals of the battery pack. EXTREMELY HIGH TEMPERATURES COULD CAUSE PERSONAL INJURY OR FIRE.
18. Dispose of expended batteries properly. The Lincoln Model 1401 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.

**Declaration of conformity according to Automotive Directive 2004/104/EC.**

Applied standards:

CISPR 25:2002

Radio disturbance characteristics for the protection of receivers used on board vehicles, boats, and on devices – Limits and methods of measurement

ISO 7637-2:2004 + A1:2008

Road vehicles – Electrical disturbances from conduction and coupling – Part 2: Electrical transient conduction along supply lines only

St. Louis, MO 03/23/11, Paul Conley, Chief Engineer



## **Lincoln Industrial Standard Warranty**

### **LIMITED WARRANTY**

Lincoln warrants the equipment manufactured and supplied by Lincoln to be free from defects in material and workmanship for a period of one (1) year following the date of purchase, excluding therefrom any special, extended, or limited warranty published by Lincoln. If equipment is determined to be defective during this warranty period, it will be repaired or replaced, within Lincoln's sole discretion, without charge.

This warranty is conditioned upon the determination of a Lincoln authorized representative that the equipment is defective. To obtain repair or replacement, you must ship the equipment, transportation charges prepaid, with proof of purchase to a Lincoln Authorized Warranty and Service Center within the warranty period.

This warranty is extended to the original retail purchaser only. This warranty does not apply to equipment damaged from accident, overload, abuse, misuse, negligence, faulty installation or abrasive or corrosive material, equipment that has been altered, or equipment repaired by anyone not authorized by Lincoln. This warranty applies only to equipment installed, operated and maintained in strict accordance with the written specifications and recommendations provided by Lincoln or its authorized field personnel.

**THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. WARRANTY ON ITEMS SOLD BY LINCOLN, BUT NOT MANUFACTURED BY LINCOLN ARE SUBJECT TO THE WARRANTY CONSIDERATION, IF ANY, OF THEIR MANUFACTURER (SUCH AS HOSES, HYDRAULIC AND ELECTRIC MOTORS, ELECTRICAL CONTROLLERS, ETC.) ASSISTANCE IN MAKING SUCH WARRANTY CLAIMS CAN BE OFFERED AS REQUIRED.**

In no event shall Lincoln be liable for incidental or consequential damages. Lincoln's liability for any claim for loss or damages arising out of the sale, resale or use of any Lincoln equipment shall in no event exceed the purchase price. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, therefore the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights. You may also have other rights that vary by jurisdiction.

Customers not located in the Western Hemisphere or East Asia: Please contact Lincoln GmbH & Co. KG, Walldorf, Germany, for your warranty rights.

### **Lincoln Industrial Special Limited Warranties**

#### **SPECIAL LIMITED 2 YEAR WARRANTY-**

##### **SL-V Series, Single Injectors-85772, 85782, and Replacement Injectors-85771, 85781**

Lincoln warrants the SL-V Injector series to be free from defects in material and workmanship for two (2) years following the date of purchase. If an injector model (single or replacement) is determined to be defective by Lincoln, in its sole discretion, during this warranty period, it will be repaired or replaced, at Lincoln's discretion, without charge.

#### **SPECIAL LIMITED 5 YEAR WARRANTY-**

##### **Series 20, 25, 40 Bare Pumps, PMV Bare Pumps, Heavy Duty and 94000 Series Bare Reels**

Lincoln warrants series 20, 25, 40 bare pumps, PMV bare pumps, Heavy Duty (82206), Mini Bench (81133, 81323), and all 94000 LFR series (single arm and dual arm) bare reels to be free from defects in material and workmanship for five (5) years following the date of purchase. If equipment is determined by Lincoln, in its sole discretion, to be defective during the first year of the warranty period, it will be repaired or replaced at Lincoln's discretion, without charge. In years two (2) and three (3), the warranty on this equipment is limited to repair with Lincoln paying parts and labor only. In years four (4) and five (5), the warranty on this equipment is limited to repair with Lincoln paying for parts only.

#### **SPECIAL LIMITED 5 YEAR WARRANTY-**

##### **LFM Series Oil Meters (Lincoln Fluid Meter), LFV (Lincoln Fluid Valves), AOD (Air-Operated Diaphragm Pumps)-**

Lincoln warrants the LFM meter series (908/912 series), the Lincoln Fluid valve (708/712 series), our Universal Inline Digital Meters (812/813 series), and our AOD Pump offering to be free from defects in material and workmanship for five (5) years following the date of purchase. If either is determined to be defective by Lincoln, in its sole discretion, during the warranty period, they will be repaired or replaced, at Lincoln's discretion, without charge.

#### **Special DEF (Diesel Exhaust Fluid) Limited Warranty-**

DEF products are warranted to be free from defects in material and workmanship for a period of one (1) year following the date of purchase. The following exceptions to the standard warranty period are in effect-

-85700-30/85700-50 DEF hose reels (bare reel only), 277251/277252 AC DEF pumps, and 277256 and 277257

DEF meters are warranted for two (2) years from date of purchase,

-85623 DEF AOD (air operated diaphragm) pumps are covered under the standard five (5) year AOD pump warranty.

If either is determined to be defective by Lincoln, in its sole discretion, during the warranty period, they will be repaired or replaced, at Lincoln's discretion, without charge.

### **Lincoln Industrial Contact Information**

To find Lincoln Industrial's Nearest Service Center call the following numbers, you may also use our website

Customer Service 314-679-4200  
Website lincolnindustrial.com