

Model No. 84933, 84934 STUB PUMP Series "A"

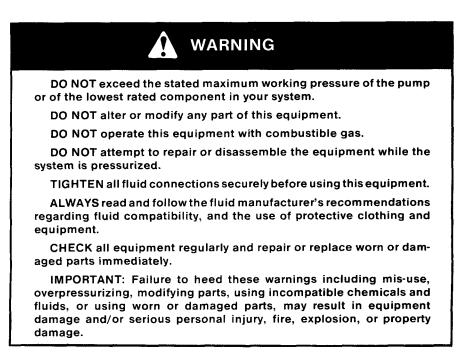
5:1 RATIO, OUTPUT - 6 GPM MIN. AIR PRESSURE - 40 PSI MAX. AIR PRESSURE - 200 PSI MAX. OUTPUT PRESSURE - 1000 PSI

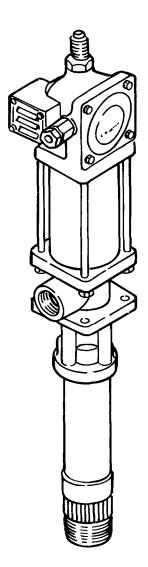
OWNERS MANUAL

IT IS THE RESPONSIBILITY OF THE OWNER AND/OR OPERATOR TO PROPERLY USE AND MAINTAIN THIS EQUIPMENT CAREFULLY READ AND UNDERSTAND THE INSTRUCTIONS AND WARNINGS IN THIS MANUAL BEFORE OPERATING THIS EQUIPMENT.

If the operator is not fluent in English, the instructions and warnings shall be read and discussed in the operator's native language, making sure the operator comprehends the contents.

This equipment complies with OSHA Standards where applicable.





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This manual contains IMPORTANT WARNINGS and INSTRUCTIONS READ AND RETAIN FOR REFERENCE



A PENTAIR COMPANY

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WARNING

Pressure Relief Procedure

TO reduce the risk of serious bodily injury, including splashing in the eyes or on the skin, always follow this procedure whenever you shut off the pump, when checking or servicing any part of the system, and when installing, cleaning or changing any part of the system.

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

If you suspect that the dispensing valve or hose is completely clogged, or that pressure has not been fully relieved after following the steps above, VERY SLOWLY loosen the hose end coupling and relieve pressure gradually, then loosen completely. Now clear the valve or hose.

INSPECTION INSTRUCTIONS

If overpressurizing of the equipment is believed to have occurred, contact the factory authorized warranty and service center nearest you for inspection of the pump.

Specialized equipment and knowledge is required for repair of this pump. Contact the factory authorized warranty and service center nearest you for repairs or adjustments other than maintenance specified in this manual.

Annual inspection is recommended by the factory authorized warranty and service center nearest you.

A list of factory authorized warranty and service centers is available upon request.

DAMAGED PUMPS

Any pump that appears to be damaged in any way, is badly worn or operates abnormally, shall be removed from use until repairs are made. Contact the factory authorized warranty and service center nearest you for repairs.

OPERATION

Flushing

Flush the supply lines and hoses with compatible solvent and blow dry with air before connecting them to the system. This is to purge any contaminents such as dirt, moisture or metal shavings that could damage the pump or system components

Then flush the pump. The pump was tested in lightweight oil, which was left in to protect the pump from corrosion Flush out the pump before connecting it to the system if the oil could contaminate the fluid you are pumping.



When flushing the pump with solvents, to reduce the risk of injury from splashing or static sparking, always hold a metal part of the dispensing valve firmly to the side of a grounded metal pail, and use the lowest possible fluid pressure when flushing.

WARNING

This pump can develop 1000 PSI maximum working pressure, at 200 PSI maximum incoming air pressure. Be sure that all equipment and accessories are rated to withstand the maximum working pressure of this pump. DO NOT exceed the maximum working pressure of any component or accessory used in the system.

In a circulating system, the pump runs continuously and slows down or speeds up as supply demands, until the air supply is shut off

In a direct supply system, with adequate air pressure supplied to the motor, the pump starts when the gun or dispensing valve is opened and stalls against pressure when it is closed

If the pump accelerates quickly or is running too fast, stop it immediately. Check the fluid supply and refill it if necessary. Prime the pump to remove all air from the system, or flush the pump and relieve pressure.

MAINTENANCE



Always follow the Pressure Relief Procedure Warning whenever you stop spraying and before checking or repairing any part of the system, to reduce the risk of serious bodily injury.

If you are pumping fluid which dries, hardens or sets up, flush the system with a compatible solvent as often as necessary to prevent a buildup of dried fluid in the pump or hoses.

Corrosion Protection for Carbon Steel Pumps



Water, or even moist air, can cause your pump to corrode. To help prevent corrosion, NEVER leave the pump filled with water or air. After normal flushing, flush the pump again with mineral spirits or oil-based solvent, relieve pressure, and leave the mineral spirits in the pump. Be sure to follow all steps of the Pressure Relief Procedure Warning.



INSTALLATION

The typical installation and pump mountings, shown are only a guide for selecting and installing system components. Contact your Lincoln Representative for assistance in designing a system to suit your particular needs.

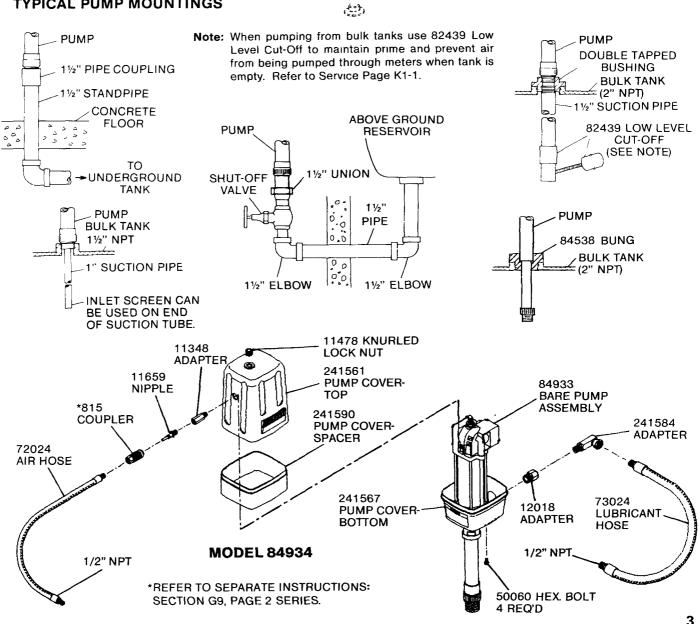
Mount the pump to suit the type of installation planned. Refer to the pump dimensional drawing for mounting layout.

An air line filter/regulator/lubricator is recommended for use with your Lincoln pump to remove harmful dirt and moisture from your compressed air supply, and to provide automatic air motor lubrication.

Be sure all air and fluid hoses are properly sized for your system.

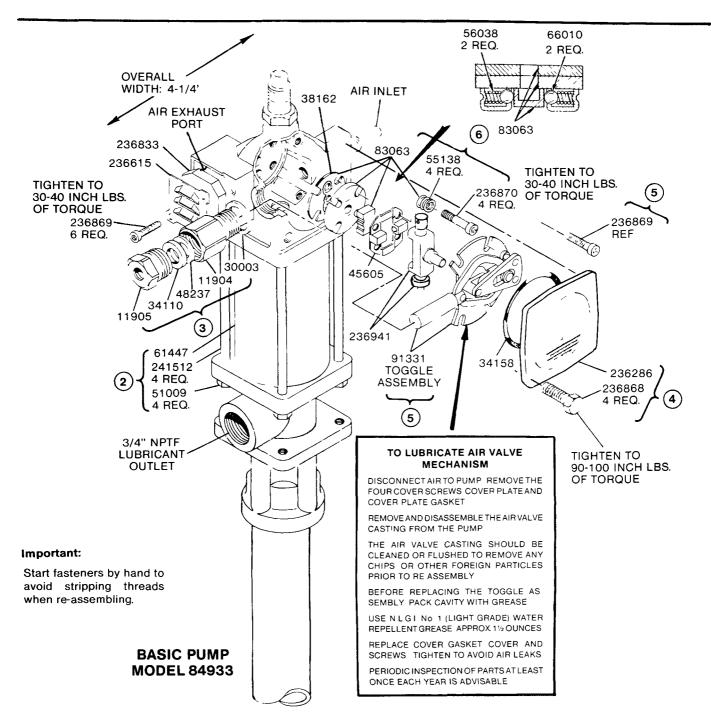
TIGHTEN all fluid connections securely before using this equipment.

TYPICAL PUMP MOUNTINGS



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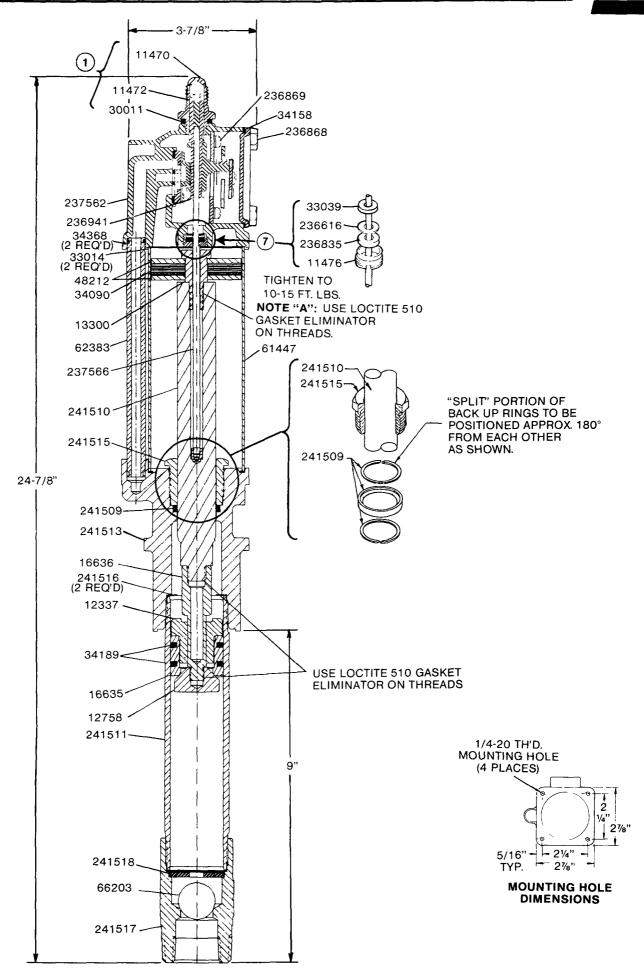


DISASSEMBLY PROCEDURE

- 1. Remove 11470 Valve Cap, 11472 Trip Rod Pin.
- 2. Unscrew four 51009 Nuts from 241512 Tie Rods and lift 237562 Air Valve Casting off of 61447 Air Cylinder.
- 3. Remove 11904 Packing Nut and 11905 Packing Cap from air valve casting.
- 4. Remove four 236868 Screws and 236286 Cover.
- 5. Remove four 236869 Screws, 91331 Toggle Plate and 236941 Trip Shoe Assembly.
- 6. Remove four 236870, 55138 Springs, 45605 Valve Guide Plate and 83063 Valve Slide, Seat and Gasket.

- 7. Unscrew 11476 Trip Rod Packing Nut from air valve casting and remove all packing parts.
- 8. Unscrew 241511 Pump Tube from 241513 Outlet Casting.
- 9. Remove 61447 Air Cylinder and 62383 Air Passage Tube from outlet casting.
- 10. Place wrenches on both 13300 Piston Bolts (one at end of 241510 Piston Rod) and loosen.
- 11. Remove air piston, pump piston, piston rod and trip rod from outlet casting.
- 12. Unscrew 241515 Gland Packing Nut from outlet casting and remove all gland seal parts.
- 13. To reassemble reverse procedure.

Note: If complete disassembly is required, replace all gaskets, orings & packings. (Order Repair Kit.)



| Part | Description | Part | Description | Part | Description |
|--------|--------------------|--------|--------------------|---------|---------------------------|
| 815 | Air coupler | *34158 | O-ring (neoprene) | 236615 | Muffler cover |
| 11470 | Valve cap | *34189 | Packing (buna-N) | *236616 | Gasket (asbestos-nitrile) |
| *11472 | Trip rod pin | *34368 | O-ring (buna-N) | 236833 | Muffler |
| 11476 | Packing nut | 38162 | Valve gasket | *236835 | Packing (buna-N) |
| 11659 | Air nipple | 45605 | Valve guide plate | 236868 | Screw |
| 11904 | Packing nut | 48212 | Air piston washer | 236869 | Screw |
| 11905 | Packing cap | 48237 | Packing washer | 236870 | Valve seat screw |
| 12018 | Adapter | 51009 | Nut | 236941 | Trip shoe assembly |
| 12337 | Spring stop | 55138 | Spring | 237562 | Air valve casting |
| *12758 | Piston seat | *56038 | Spring | 237566 | Trip rod |
| 13300 | Piston bolt | 61447 | Air cylinder | 241509 | "T'-seal |
| *16635 | Piston | 62383 | Air passage tube | 241510 | Piston rod |
| 16636 | Connecting rod | *66010 | Steel ball | 241511 | Pump tube |
| *30003 | Packing nut gasket | 66203 | Steel ball | 241512 | Tie rod |
| *30011 | Valve cap gasket | 72036 | Air hose | 241513 | Outlet casting |
| *33014 | Gasket | 73036 | Lubricant hose | 241515 | Gland nut |
| 33039 | Gasket | 83063 | Valve slide & seat | 241516 | Pump tube gasket |
| 34090 | Air piston packing | 91331 | Toggle plate | 241517 | Foot valve body |
| *34110 | Packing (buna-N) | 236286 | Cover | 241518 | Ball stop |

SERVICE PARTS

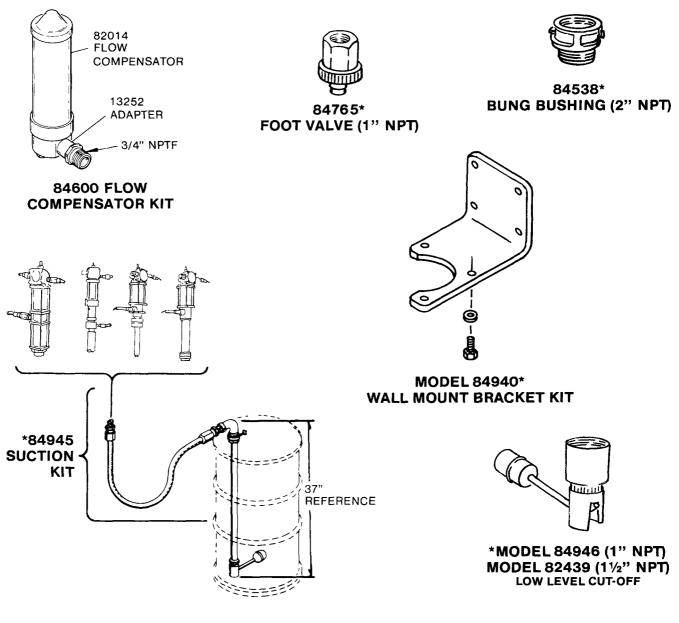
* Included in Repair Kit.

TROUBLESHOOTING

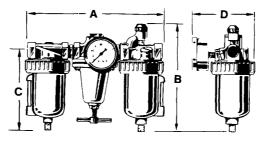
| Problem | Solution | | | |
|--|---|--|--|--|
| 1. Airmotor does not operate | Check air supply to pump. | | | |
| | Replace 236941 Trip Shoe Assembly and 91331 Toggle Plate | | | |
| 2. Air seepage from air exhaust while pump is not operating. | Replace 83063 Valve Slide, Seat & Gasket, 236835 Trip Rod Packing and 236616 Gasket and 33039 Gasket. | | | |
| 3 Loss of pressure, volume or continuous operation of pump when not in normal use. | Clean piston seat and ball foot valve If Worn or Damaged: Replace 16635 Piston, 12758 Piston Seat and 34189 Piston Packings. Check inside diameter of 241511 Pump Tube, if scored replace pump tube. | | | |
| Excessive amount of air in lubricant or excessive amount of lubricant coming from air exhaust. Note: Some lubricant exhausts with air normally. | Replace 241509 Gland Packing. | | | |

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ACCESSORIES (Must be purchased separately).



FILTER-REGULATOR & GAUGE-LUBRICATOR



| Model | Pipe Size | A | в | с | D | Weight (Ibs.) |
|---------|--------------|------|------------|-----|-------|------------------|
| 83387-4 | 1/4" | 8¾" | 7%" | 5%" | 4½" | 5.5 |
| 83387-6 | 3/8" | 8¾" | 7%" | 5%" | 41⁄8" | 5.5 |
| 83387-8 | 1/2" | 10¾" | 81⁄8" | 5¾" | 4¾" | 8.5 |

*NEW MODELS

LINCOLN LUBRICATING EQUIPMENT LIMITED WARRANTY

Lincoln, A Pentair Company, warrants that lubrication equipment, materials dispensing equipment and other related equipment manufactured by it will be free from defects in material and workmanship during the one (1) year following the date of purchase. If equipment proves to be defective during this warranty period, it will be repaired or replaced without charge, provided that factory examination indicates the equipment to be defective. To obtain repair or replacement, it must be shipped, transportation charges prepaid, with proof of date of purchase to a Lincoln authorized Warranty and Service Center, within the one (1) year following the date of purchase.

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 materials, or to equipment repaired or altered by anyone not authorized by Lincoln to repair or alter the equipment. This warranty applies only to equipment installed and operated according to the recommendations of Lincoln or its authorized field personnel. No other express warranty applies to lubrication equipment, materials dispensing equipment, and other related equipment manufactured by Lincoln.

ANY IMPLIED WARRANTIES applicable to lubrication equipment, materials dispensing equipment, and other related equipment manufactured by Lincoln INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WILL LAST ONLY FOR ONE (1) YEAR FROM THE DATE OF PURCHASE. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

In no event shall Lincoln be liable for incidental or consequential damages. The liability of Lincoln on any claim for loss or damage arising out of the sale, resale, or use of lubrication equipment, materials dispensing equipment, and other related equipment shall in no event exceed the purchase price. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

- RETAIN THIS INFORMATION FOR FUTURE REFERENCE

When ordering replacement parts, list: Part Number, Description, Model Number, and Series Letter.

LINCOLN provides a Distributor Network that stocks equipment and replacement parts.