

Model No. 84179 2-1/2" AIR MOTOR Series "C"

MIN. AIR PRESSURE-30 PSI MAX. AIR PRESSURE-200 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.

MARNING

This air pressure specification is for the air motor only. Never exceed the maximum air or fluid working pressure of the lowest rated system component.

⚠ WARNING

DO NOT exceed the stated maximum working pressure of the pump or of the lowest rated component in your system.

DO NOT alter or modify any part of this equipment.

DO NOT operate this equipment with combustible gas.

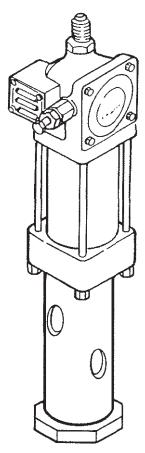
DO NOT attempt to repair or disassemble the equipment while the system is pressurized.

TIGHTEN all fluid connections securely before using this equipment.

ALWAYS read and follow the fluid manufacturer's recommendations regarding fluid compatibility. and the use of protective clothing and equipment.

CHECK all equipment regularly and repair or replace worn or damaged parts immediately.

IMPORTANT: Failure to heed these warnings including misuse, overpressurizing, modifying parts, using incompatible chemicals and fluids, or using worn or damaged parts, may result in equipment damage and/or serious personal injury, fire. explosion, or property damage.



CONTENTS

Safety Instructions	2
Safety Instructions	2
Installation	2
Operation Maintenance	2
Disassembly Procedure	3
Disassembly ProcedureParts Breakdown	3-4
Service Parts	5
Troubleshooting Chart	5
Accessories	5
Warranty	

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

SAFETY INSTRUCTIONS

This equipment for professional use only. Observe all warnings Read and understand all instructions before operating equipment Extreme caution should be used when operating this equipment as personal injury and/or property damage can result from equipment misuse.

WARNING

ALWAYS check equipment for proper operation before each use, making sure safety devices are in place and operating prop-erly. Tighten all connections before each use. DO NOT alter or modify any part of the equipment as this may cause a malfunction and result in serious bodily injury.

▲ WARNING

ALWAYS disconnect air to pump and relieve system pres-sure before checking, cleaning and lubricating, or servicingair motor. Periodic inspection of air motor parts at least once each year is recommended.

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.

Any equipment that appears to be damaged in any way, is badly worn, or operates abnormally shall be removed from use until repairs are made. Specialized equipment and knowledge is required for repair of this air motor. Contact the factory authorized warranty and service center nearest you for repair oradjustments otherthan maintenance specified in this manual.

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

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

INSTALLATION

Use of an airline filter/regulator/lubricator is recommended to remove harmful dirt and moisture from the compressed air supply, and to provide automatic lubrication to your Lincoln air motor.

Contact your Lincoln representative for assistance in designing a system to meet your specific needs. Flush supply lines and hoses with mineral spirits or oil based solvent and blow dry with air before connecting them to the system. This is to purge any contaminants such as dirt, moisture, or metal shavings that could damage the air motor.

OPERATION

To start the pump, turn on the main airsupply. Slowly open the air regulator until the air motor runs smoothly.

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

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

Use the air regulator to control pump speed and fluid pressure. Always use the lowest pressure required to achieve the desired results. Higher pressures will cause pump packings to wear pre-maturely.

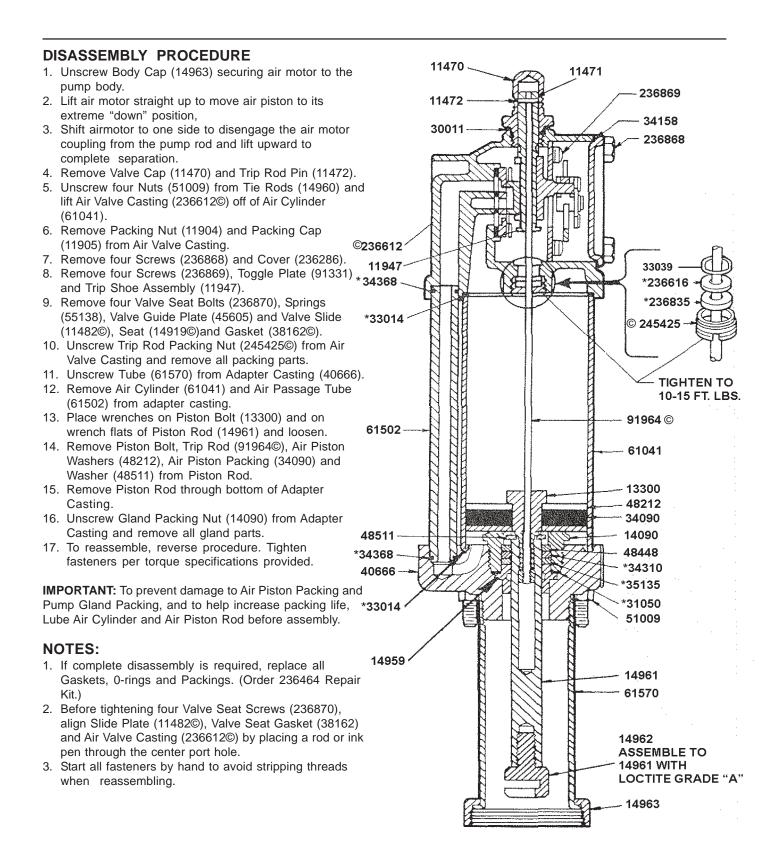
⚠ WARNING

To reduce the risk of serious bodily injury or property damage, NEVER exceed the maximum air or fluid working pressure of the lowest rated system component.

MARNING

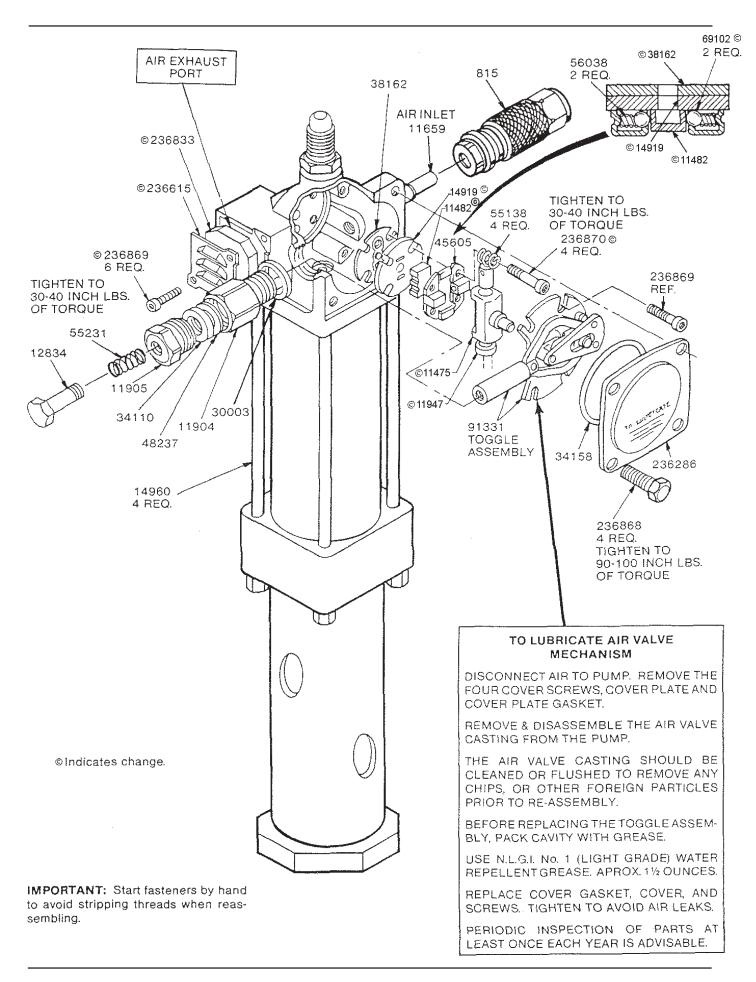
To reduce the risk of serious bodily injury, ALWAYS disconnect air to pump and relieve system pressure before checking, cleaning and lubricating, or servicing air motor.

Page Number - 2 Form 403295



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Form 403295 Page Number - 3



Page Number - 4 Form 403295

SERVICE PARTS

	Part	Qty.	Description	Part	Qty.	Description	Ī
	815	1	Air coupler	*35135	1	Gland packing	
	11470	1	Valve cap	**38162	1	Valve seat gasket	©
©	11471	1	Collar, Trip Rod	40666	1	Adapter casting	
	11472	1	Trip rod pin	45605	1	Valve guide plate	
©	11475	1	Trip shoe assembly	48212	2	Air piston washer	
	11659	1	Air nipple	48237	1	Washer	
	11904	1	Packing nut	48448	1	Washer	
©	11905	1	Packing cap	48511	1	Washer	
	11947	1	Sleeve, Trip	51009	4	Nut	
	12834	1	Spring retainer	**55138	4	Spring	©
	13300	1	Piston bolt	55231	1	Spring	
©	14090	1	Gland packing nut	56038	2	Spring	
	14959	1	Gland packing spacer	61041	1	Air cylinder	
	14960	4	Tie rod	61502	1	Air passage tube	©
	14961	1	Piston rod	61570	1	Tube	
	14962	1	Coupling adapter	*69102	2	Ball	
	14963	1	Body cap	91331S	1	Toggle plate	©
	*30003	1	Packing nut gasket	91964	1	Trip rod	
	*30011	1	Valve gasket	236286	1	Cover	©
	*31050	1	Gland gasket	236612	1	Air valve casting	
	*33014	2	Gasket	236615	1	Muffler cover	
©	33039	1	Gasket	*236616	1	Gasket	
	34090	1	Air piston packing	236833	1	Muffler packing	
	*34110	1	Packing	236835	1	Packing	
	*34158	1	0-ring	236868	4	Screw	
	*34310	1	Packing	236869	6	Screw	
	*34368	2	O-ring	236868	4	Valve seat bolt	©
,	* Included in 236464 Repair Kit.			245425	1	Trip rod packing nut	

^{**} Included in 83063 Valve Seat Assembly.

TROUBLESHOOTING

Problem	Solution
1. Pump does not operate.	Check air supply to air motor.
	Replace 11475© Trip Shoe Assembly,
	11947 Trip Sleeve and 91331 Toggle Plate.
2. Air seepage from air exhaust port	Replace 11482 Valve Slide©, 14919 Valve
while pump is not operating.	Seat© & 38162 Valve Gasket©, 236835 Trip
	Rod Packing and 236616 Gasket.
3. Excessive amount of air entrapped in	Replace 34310 Packing, 35135 Gland
fluid or excessive amount of fluid coming	Packing and 31050 Gland Gasket.
from air exhaust.	
Note: Some fluid exhausts with air	
normally.	

ACCESSORIES

Filter/regulator & Gauge/Lubricator Eyebolt Kit 1709 Hoist

© 83321 Low Pressure Kit 84148 Wall mount Bracket Kit

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Form 403295 Page Number - 5

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Page Number - 6 Form 403295