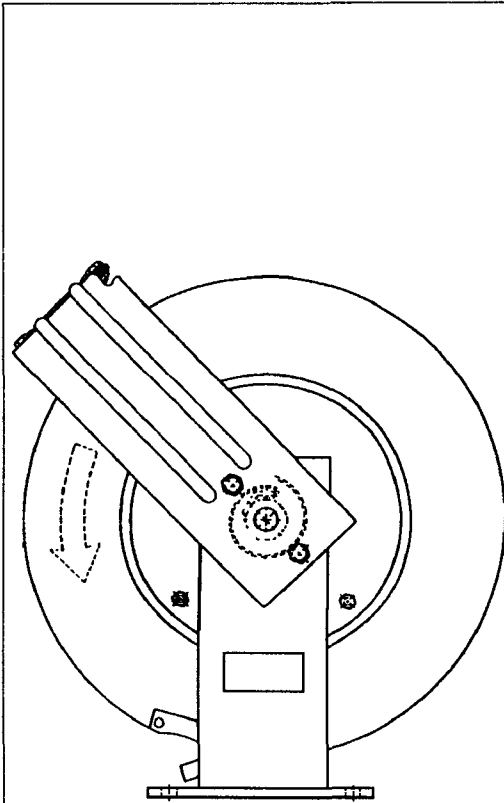


**OWNER/OPERATOR MANUAL**



**SPECIFICATIONS**

Maximum working pressure	5000 p.s.i.
Material Inlet	3/8" NPT (Female)
Material outlet	3/8" NPT (Female)
Sheave width	2-1/2"
Sheave diameter	15"
Drum diameter	8"
Overall width	7-7/8"
Overall height	18"
Overall depth	17-1/2"

**Maximum hose capacities (Including hang down)**

1/4" I.D. Grease hose (SAE 100 R2)	25 ft
1/4" I.D. Air/water hose (SAE 100 R6)	30 ft
3/8" I.D. Air/water hose (SAE 100 R6)	25 ft
3/8" I.D. Oil hose (SAE 100 R1)	25 ft
3/8" I.D. Oil hose (SAE 100 R3)	20 ft

**NOTE** Maximum hose capacities are based on SAE specified hoses. Exceeding these capacities voids warranty. Refer to DELIVERY HOSE INSTALLATION for proper hose to reel assembly.

**DESCRIPTION**

Model 85308 reel is designed for standard vehicle servicing and to meet the need for rugged, dependable service. The reel provides the following features:

- Easy to install - ceiling, wall, or floor
- Automatic hose retracting
- Jam-proof automatic latch

**OWNER/OPERATOR RESPONSIBILITY**

It is the owner/operator responsibility to properly use and maintain this equipment.

The instructions and warnings contained in this manual shall be read and understood by the owner/operator prior to operating this equipment.

If an owner/operator does not under-

stand English, the contents of this manual shall be explained in the owner/operator native language to assure the owner/operator comprehends.

It is the owner/operator responsibility to maintain the legibility of all warning and instruction labels.

**The owner/operator shall retain this manual for future reference to important warnings, operating and maintenance instructions.**

## WARNING

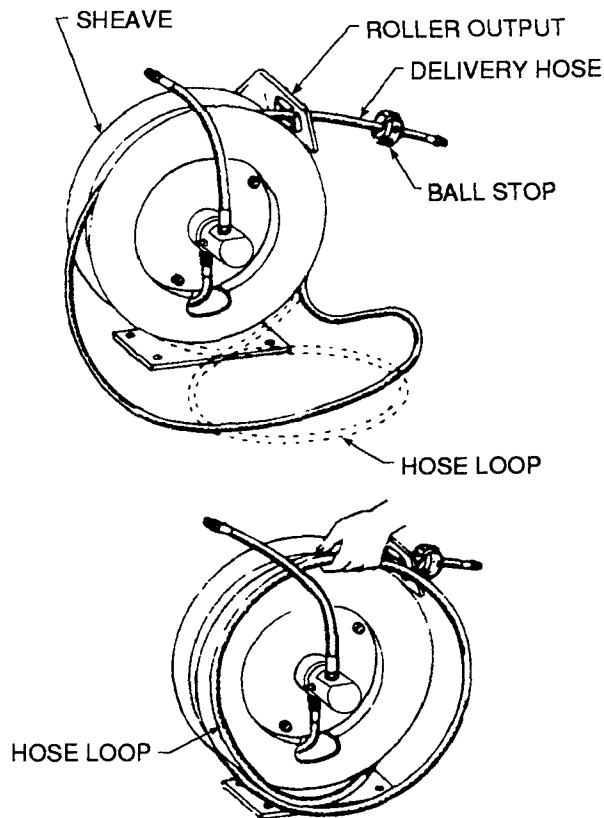
**FAILURE TO HEED THE FOLLOWING WARNINGS INCLUDING MISUSE, OVER PRESSURIZING, MODIFYING PARTS, USING INCOMPATIBLE CHEMICALS AND FLUIDS, OR USING WORN OR DAMAGED PARTS, MAY RESULT IN EQUIPMENT DAMAGE AND/OR SERIOUS PERSONAL INJURY, FIRE, EXPLOSION, OR PROPERTY DAMAGE.**

- Do not exceed the stated maximum working pressure of the reel 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
- Make sure all fluid connections are securely tightened 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.
- Never point the dispensing valve at any part of the body or at another person
- Never try to stop or deflect material from dispensing valve or leading connection or component with your hand or body
- Always check equipment for proper operation before each use, making sure safety devices are in place and operating properly
- Always follow the pressure relief procedure after shutting off the pump, when checking or servicing any part of the system, and when installing, cleaning or changing any part of the system

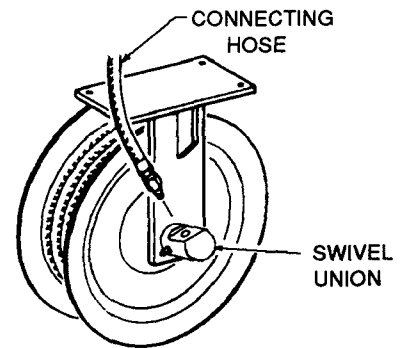
### ASSEMBLY

Assemble reel as follows Refer to SERVICE PARTS for part numbers and location

- |  |   |   |
|--|---|---|
| <p>A Lubricate shaft on base assembly (91989) with grease</p> <p>B Assemble sheave assembly (92076) to base assembly (91989) by sliding bearing on shaft</p> <p>C Assemble arbor nut (91988) to shaft on base assembly (91989) and tighten</p> <p>D Assemble retaining ring (66316) to groove in shaft on base assembly (91989)</p> <p>E Assemble four studs (14013) to sheave assembly (92076) and secure with four lockwashers (66186) and four hex nuts (51009)</p> | <p>F Assemble power spring (57110) by placing in spring housing on sheave assembly (92076) so the outside loop of spring is engaged on one stud (14013) and the inside loop engaged in arbor nut (91988)</p> <p>G Assemble sheave assembly (244867) by aligning four holes with studs (14013) and secure using four lockwashers (66186) and four hex nuts (51009)</p> <p>H Assemble swivel (244511), swivel union (66842) and street elbow (67358) to hub on sheave assembly (244867) and secure Use pipe compound on all threads to insure seal</p> <p>I Assemble roller support arm (360310) to reel by aligning with mating holes in</p> | <p>support arm of base assembly (91989) and secure with two hex head cap screws (50044), two lockwashers (63220) and two hex nuts (51005)</p> <p>J Assemble roller outlet assembly (91991) to inside of roller support arm (360310) and secure with four hex head screws (50073), four lockwashers (66051) and four hex nuts (51043)</p> <p>K Assemble latch to base assembly (91989) as follows</p> <p>( 1 ) Onto the socket head cap screw (50781) assemble one washer (48436), one latch (14014), one latch spring (57111) with long leg down short leg engages mating hole in latch (14014) and one hex nut (51022) Do not wrench torque nut Assemble lockwasher (66246) over socket head cap screw (50781)</p> |
|--|---|---|



**FIGURE (1) DELIVERY HOSE**



**FIGURE (2) CONNECTING HOSE**

(2) Entire assembly is now assembled to base assembly (91989) by threading socket head screw (50781) in nut on base assembly (91989). Hand tighten until all excess play is removed and latch (14014) moves freely. Tighten hex nut (51022) to secure latch assembly.

- L Assemble hose clamp (45897) to sheave assembly (244867) and secure using one screw (50302-1), one lockwasher (66186) and one hex nut (51010).

## INSTALLATION

### DELIVERY HOSE INSTALLATION (MAXIMUM SPRING TENSION)

For smoother operation during retraction and to increase hose life, "detalc" hose by wiping entire hose length with a light lubricating oil before installing on reel.

Assemble outlet adapter to hose and

tighten securely. Use teflon tape on threads to prevent leaks.

See Figure (1) Insert hose end with outlet adapter through roller outlet and secure to swivel union (66842).

### CAUTION

To prevent damaging hose connections and/or components when pulling hose from reel, pull on the hose itself and not on the control valve or swivel. Do not pull or jerk on the hose when fully withdrawn from the reel.

From open side of reel, loop entire length of hose onto reel in a clockwise direction. Pull hose out through roller outlet to wind power spring. When hose is completely extended, latch reel to prevent it from unwinding.

Continue to add loops of hose and pull out hose until power spring winds tight.

### IMPORTANT INSTRUCTIONS

Perform the following instructions as stated to correctly set the power spring for maximum tension.

Allow reel to retract two full revolutions and latch reel. Carefully unloop remaining hose from reel.

### CAUTION

To avoid damaging reel components, always make sure hose clamp is properly installed.

Position hose clamp so that approximately 1/2 loop of hose remains on reel and latching does not occur when hose is fully extended.

While holding hose, allow reel to retract hose until desired height from floor is obtained, then latch reel

Slide ball stop over free end of hose and position slightly below roller outlet. Tighten screws to secure ball stop to hose

Power spring is now set to maximum tension.

**ADJUSTING SPRING TENSION**

**CAUTION**

To prevent premature power spring failure, spring tension should be adjusted so that it requires at least two full turns of the reel sheave before the spring is wound tight

Should less spring tension be desired, pull hose out from roller outlet to provide slack and latch reel

Unwind one loop of hose from reel. Pull excess hose out through roller outlet and unlatch reel to retract hose

Check tension and repeat above procedure until desired tension is obtained

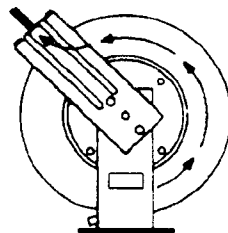
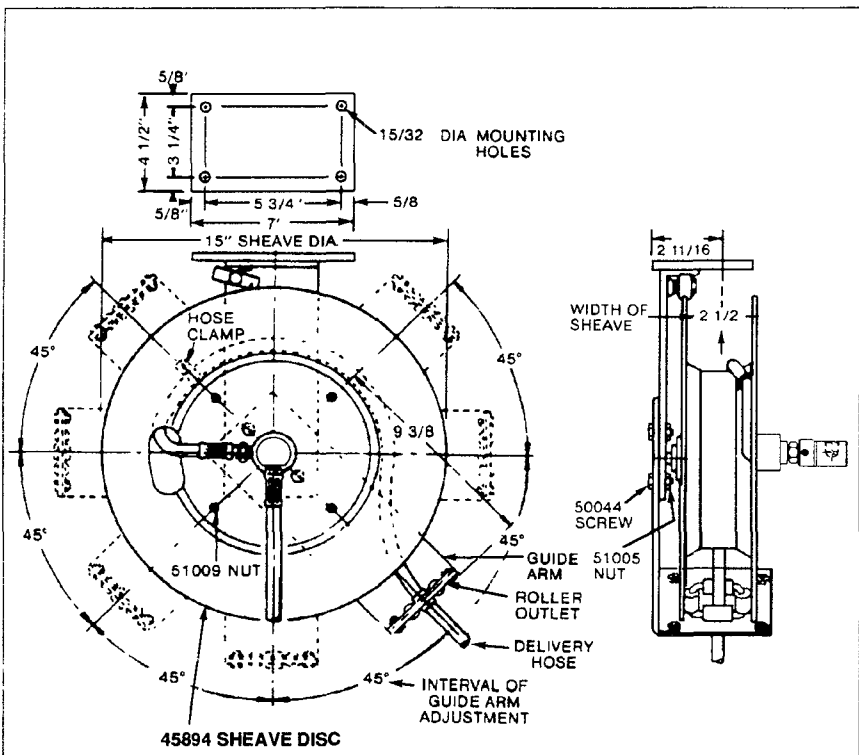
**ATTACHING CONNECTING HOSES**

**CAUTION**

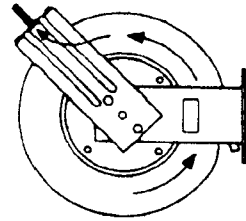
To prevent damage to connecting hose when installing hose to reel, sufficient clearance must be provided from outside edge of sheave

See Figure (2) Assemble connecting hose to swivel

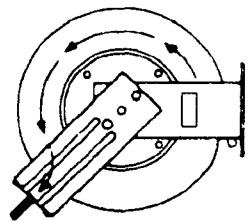
Connect other end of connecting hose to material supply line source or connection



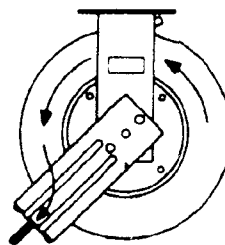
FLOOR INSTALLATION



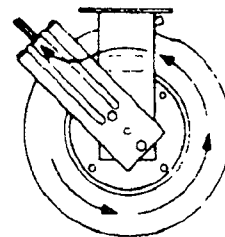
ABOVE BENCH INSTALLATION



WALL OR POST INSTALLATION



CEILING INSTALLATION OR FOR USE WITH LUBREEL SUPPORT STAND



UNDER BENCH INSTALLATION

**FIGURE (3) REEL INSTALLATION AND ADJUSTMENT**

## REEL INSTALLATION AND ADJUSTMENT

Before proceeding with this adjustment, the delivery hose must be pulled out to its full extendible length and the reel allowed to latch

The guide arm may be located in any of the seven positions as shown which are at intervals 45° apart. This allows hose reel to be mounted in various positions as shown and provide for minimum tension on the roller outlet when the delivery hose is withdrawn from the reel or when it is retracted

To position the roller guide arm to any of the seven positions shown in Fig (3) remove the two hex screws (50044) and hex nuts (51005). Place guide arm in desired position and replace screws and nuts

The four hex nuts (51009) holding the sheave assembly in place must be removed and the sheave disc rotated so that the hose clamp (45897) is in direct alignment with the screws and nuts which hold the roller guide arm in place (180° from the roller outlet). Replace lockwashers and hex nuts (51009) and tighten securely. This adjustment is necessary to give maximum extendible delivery hose length and to assure the reel will latch and retract the hose when it is pulled out to its full length

## SAFETY INFORMATION

Read and understand all warnings, cautions and instructions before operating this equipment. Extreme caution should be used when operating this equipment as personal injury and/or property damage can result from equipment misuse. Adequate personal protection is recommended to prevent splashing of material on the skin or in the eyes. ALWAYS disconnect air coupler from pump when the pump is not being used

### PRESSURE RELIEF PROCEDURE

Always perform this procedure when the pump is shut off and before checking, servicing, installing, cleaning or repairing any part of this system

Perform the following procedure

- A Disconnect the air supply to the pump
- B Point the dispensing valve away from yourself and others
- C Open the dispensing valve into an appropriate container until the pressure is relieved

If the above procedure does not relieve the pressure, the dispensing valve or hose may be restricted. To relieve the pressure, very slowly loosen the hose end coupling. Then loosen completely and clear the dispensing valve and/or hose

## INSPECTION

Prior to operation or maintenance a visual inspection shall be made. Check reel system for leaks, worn or missing parts

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

If of the equipment is believed to have occurred, contact a factory authorized service center for inspection of the reel.

Annual inspection by a factory authorized service center is recommended

## DISASSEMBLY

To disassemble, perform ASSEMBLY procedures in reverse

## REPAIR

Repair is limited to replacement of listed service parts. Special procedures and tools are required. Contact Lincoln Customer Service, One Lincoln Way, St Louis, MO 63120-1578, (314) 679-4300 for your nearest authorized service center.

When ordering replacement parts, list part number, description, model number and series letter

## 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

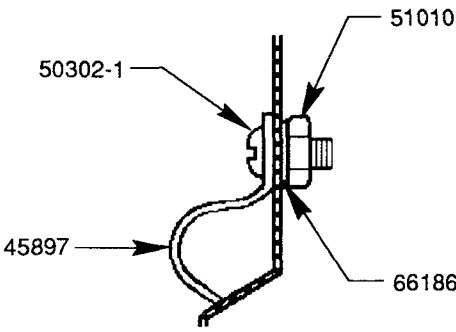
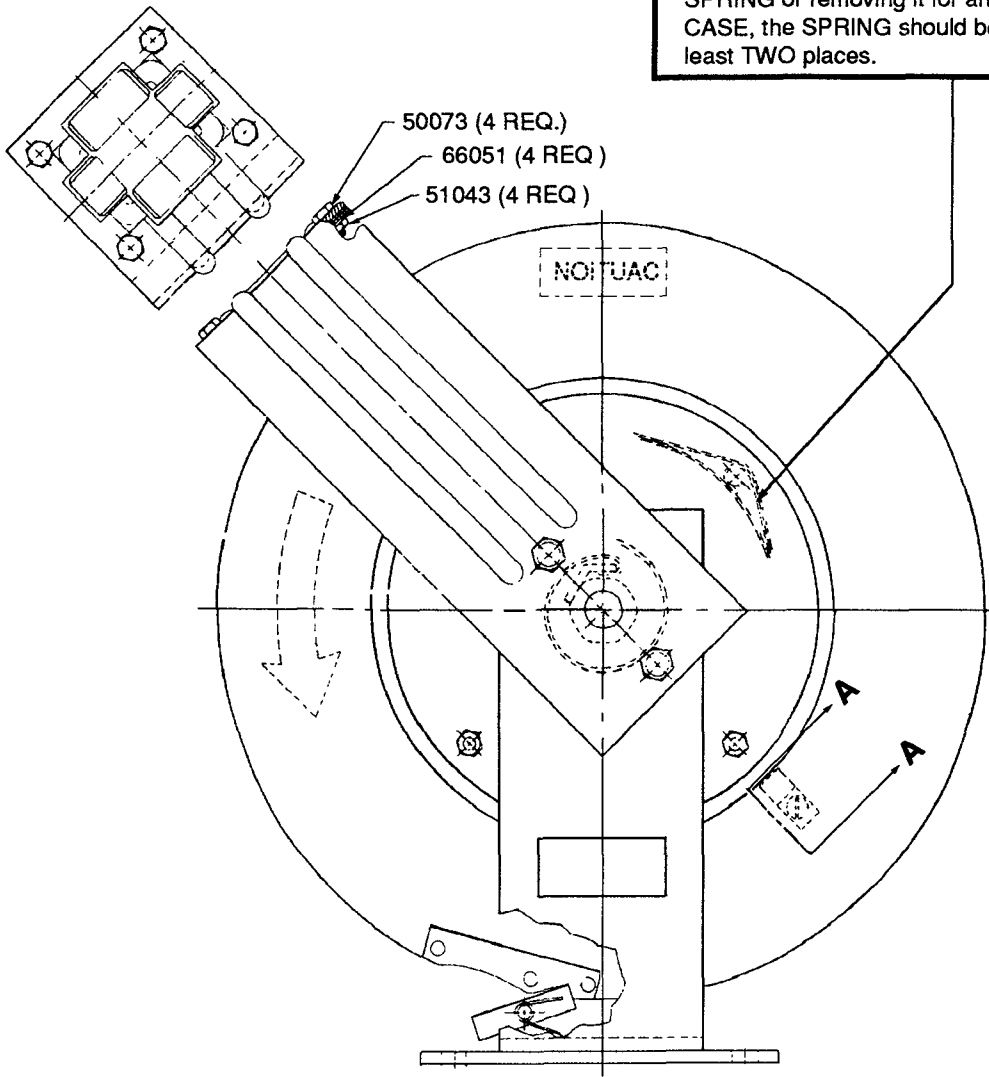
ANY IMPLIED WARRANTIES applicable to lubrication equipment, materials dispensing equipment, and other related equipment manufactured by Lincoln INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WILL LAST ONLY FOR ONE (1) YEAR FROM THE DATE OF PURCHASE. SOME STATES DO NOT 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

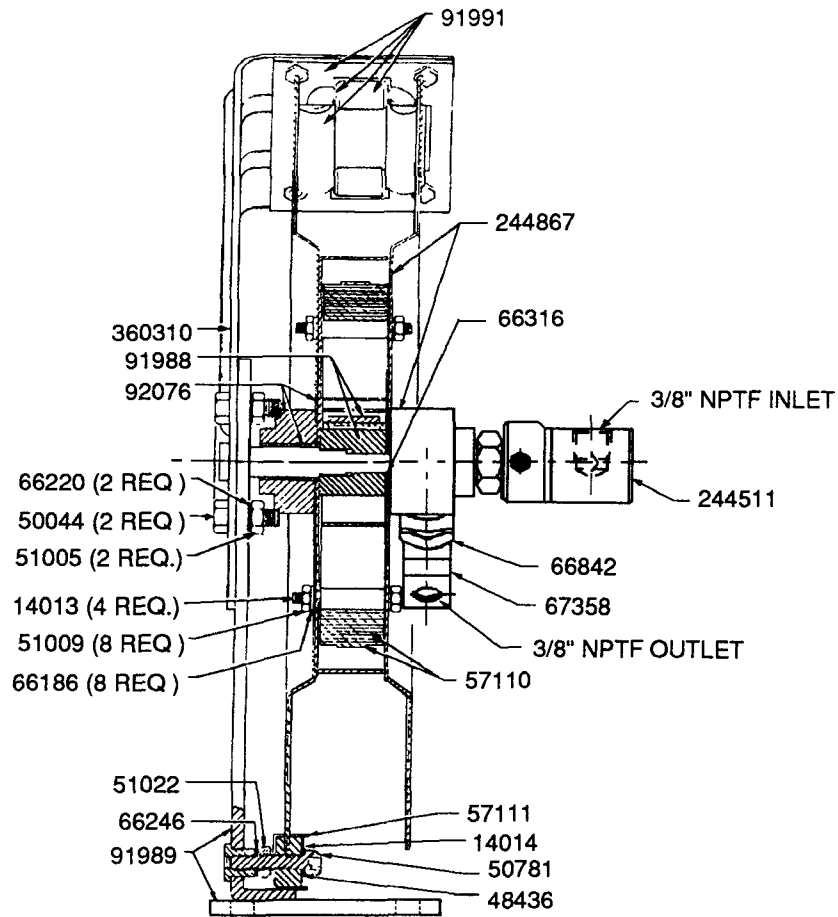
THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE

# SERVICE PARTS

NOTE SPRING is banded for safety sake  
CAUTION FOR ADDED SAFETY, when replacing SPRING or removing it for any reason from SPRING CASE, the SPRING should be wired securely in at least TWO places.



## SERVICE PARTS (CONT)



PART	QTY	DESCRIPTION	PART	QTY	DESCRIPTION
14013	4	Stud	66051	4	Lockwasher
14014	1	Latch	66186	9	Lockwasher
45897	1	Clamp	66220	2	Lockwasher
48436	1	Washer	66246	1	Lockwasher
50044	2	3/8"-16 Hex head cap screw	66316	1	Retaining ring
50073	4	#10-32 Hex head machine screw	66842	1	Adapter union
50302-1	1	1/4"-20 Round head screw	67358	1	Street elbow
50781	1	5/16"-18 Allen screw	91988	1	Arbor assembly
51005	2	3/8"-16 Hex nut	91989	1	Base assembly
51009	8	1/4"-28 Hex nut	91991	1	Roller outlet assembly
51010	1	1/4"-20 Hex nut	92076	1	Sheave assembly
51022	1	5/16"-18 Nut	244511	1	Swivel assembly
51043	4	#10-32 Hex nut	244867	1	Sheave assembly
57110	1	Power spring assembly	360310	1	Roller support assembly
57111	1	Latch spring			