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# INSTRUCTION MANUAL

## 850-SCS-V1

### CORELUBE SYSTEM

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March 2004

## GENERAL DESCRIPTION

The CoreLube 850 Ser. primary objective is to penetrate, clean and coat EM cables or Wire Ropes with oils. This is accomplished by circulating lubricant around and through the cable under pressure.

## 850 SER. DATA

### 850 Ser. Cable Capacity:

Min. Cable Dia. 0.048" ( 1.22 mm)

Max. Cable Dia. 1.680" (42.67 mm)

### Materials:

Polypropylene, Buna N,  
Polyvinyl-Chloride(PVC),  
Polyurethane, Brass, Copper,  
Stainless Steel

### Weight:

Housing - 11 Lbs ( 5.0 Kg)

Pump - 6 Lbs ( 7.7 Kg)



## AIR REQUIREMENT

**Min. Air Capacity:** 15 CFM @ 100 PSI

**Min. Air Pressure:** 70 PSI (480 kPa)

**Max. Air Pressure:** 200 PSI (1380 kPa)

The air capacity required to operate the system will vary depending on the diameter of the cable.

For best results ( 20 cfm @ 100 psi ) ( 9 dm<sup>3</sup>/s @ 700 kPa ) is recommended.



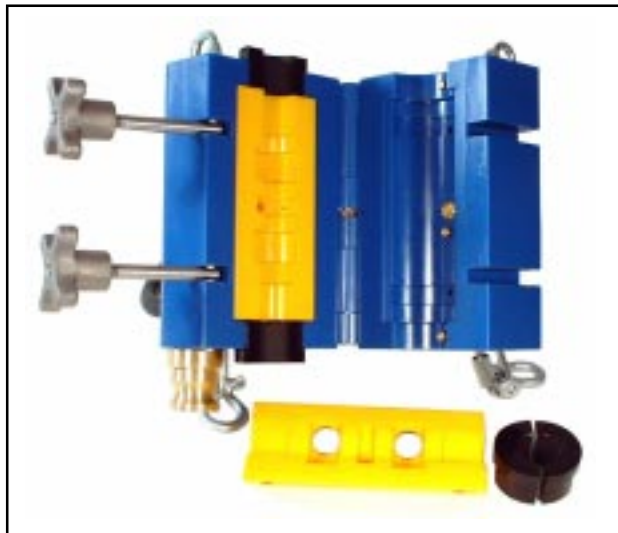
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## OPERATING SAFETY PRECAUTIONS

- \* Do not pump flammable materials through the system.
- \* Do not smoke near the system when in operation.
- \* Keep container away from open flame and sparks.
- \* Heed all **Warnings & Cautions** listed in the Pump Operation Manual.

### WARNING:

Do not use N-METHYLPYROLIDON to clean or purge the Core-Lube System.



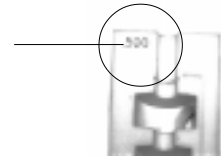
## OPERATING INSTRUCTIONS

### STEP 1

#### Selecting the correct size liner and bushing:

Ideally the Liner & Bushing should match the cable diameter, however a variance in tolerance of 3.0% is acceptable.

The liner size is marked in decimal inches on its inner face.



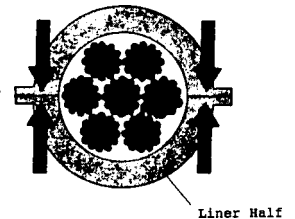
#### Do not force the liner around a wire rope that is too large.

Both the liner and the bushing fit into dowel pins in the housing. The bushing prevents wear to the liner and should be inserted at the end where the wire rope enters the housing.

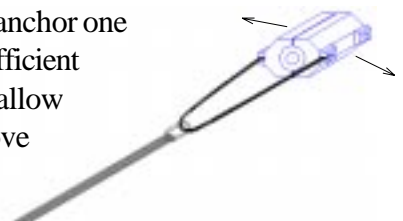
### STEP 2

- \* Position the Core-Lube housing around the wire rope with the exhaust ports facing downwards.
- \* Check to ensure the exhaust hoses can reach the container.
- \* Tighten the housing around the wire rope and check that the liner halves seal together.

Anchor the chains to a secure structure and shackle the other ends to the housing. Adjust the length of the chains for an even pull on the housing.



When positioning the housing in front of a winch, anchor one chain or sling a sufficient distance away to allow the housing to move freely across the face of the drum.



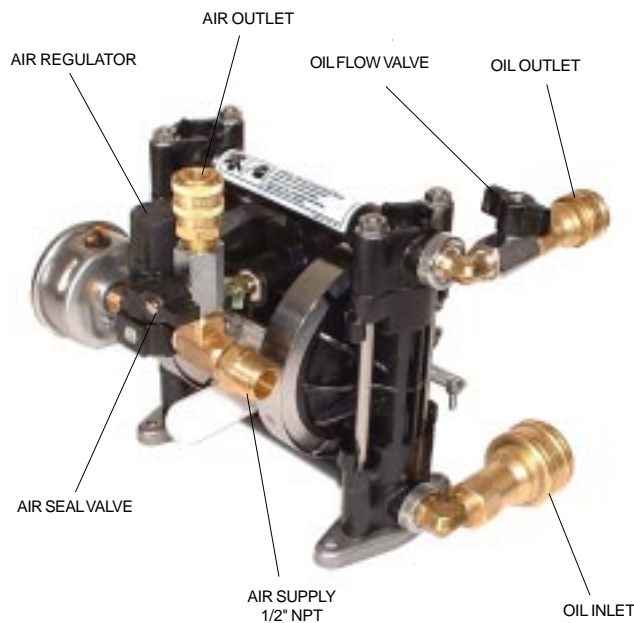
## STEP 3

Fill the container with lubricant approximately half to three quarters full. Place the container and pump at the foot of the housing and connect all hoses. Each hose has its own distinct coupler to eliminate errors.



**Important:** Make sure the air regulator is off before connecting the air supply hose to the pump. The air supply port is a 1/2" NPT fitting.

For best results use an air supply hose with a inside diameter of 1/2" or larger.



## STEP 4

### *Systems Operation.*

**First** - Open the Air Seal Valve. (This controls the air volume & pressure to the air-jets or seals).

**Note:** Do Not run cable through the housing without air flowing to the Air Seals. Doing so may clog the small air jets.

**Second** - Adjust the AIR REGULATOR to 60 PSI, then open the OIL FLOW VALVE slowly. Keep the pump running slow at first and watch for lubricant to start flowing through the transparent exhaust hoses back to the container.

Adjust the oil flow accordingly with the oil flow valve.

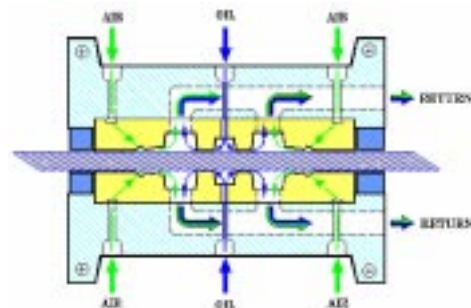
**Third** - Start moving the cable through the housing slowly at first and increase the speed after everything looks OK.

- Monitor the amount of lubricant flowing through the clear exhaust return hose. Increase oil flow as the cable speed increases to maintain good coverage.

- The pressure required to maintain a good flow will vary depending on temperature and viscosity of the lubricant.

**Important:**

It is not necessary to pump a high volume of lubricant to achieve good penetration and coverage. As long as you see the lubricant returning through the clear exhaust hoses you will achieve good results.



**HOUSING OIL & AIR FLOW**

## STEP 5 Completion Steps

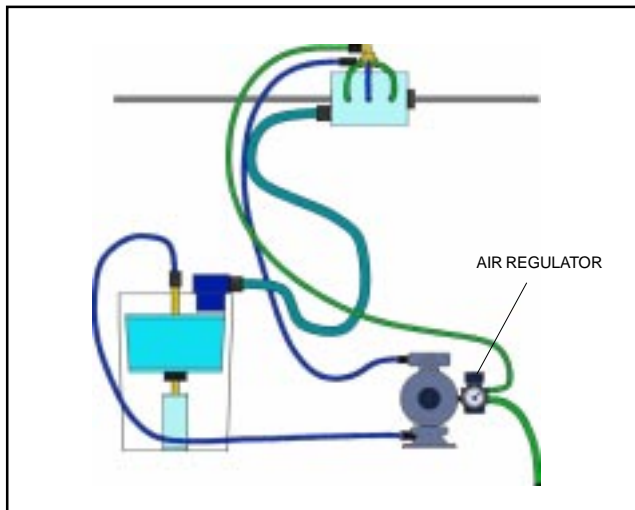
- **First** turn off the Oil Flow Valve then turn down the Air Regulator pressure to zero.
- **Second** with the pump off allow the air to flow through the system for a minute to remove excess oil from the housing & hoses.
- **Third** disconnect the exhaust hoses and couple them together, this will contain any residual oil left in the hoses.
- **Forth** uncouple the other hoses and remove the chains from the housing.

### IMPORTANT

If the lubricant used sets up like paint, it must be purged from the system after each use. Purge and clean the system with any petroleum oil, diesel fuel or kerosene.

### WARNING

DO NOT USE N-METHYLPYROLIDON to purge or clean the Core-Lube System.



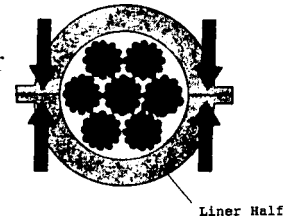
## CABLE LUBRICANT INFORMATION

The Core-Lube System can apply a variety of wire rope lubricating oils, but it is not designed to apply greases. Temperature has a dramatic change on the lubricants viscosity. In cold weather it is advisable to use a lighter lubricant. The lubricant must be able to run or flow at lower temperatures.

## TROUBLE SHOOTING

### \* If air escapes from the sides of the housing:

- Check for objects lodged between the sealing surfaces of the liner halves.
- The cable may be too large, preventing the liner halves from sealing properly. A larger size liner will be required.



### \* Low Pump output volume:

- Check the suction strainer for blockage.
- The lubricant may be too thick because of cold weather, use a thinner oil or warm the oil.
- Check housing nozzles for blockage.



- Refer to pump Operator's Manual for more information.



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