lubecore™ NEXT GENERATION AUTOMATED LUBRICATION

LCC13.007

Lubecore Communication

Date: **July 9, 2013**

Subject: **The Next Generation Spyder Pump**

It is with great pleasure that Lubecore would like to announce the launch of our new Lubecore Spyder Pump. This new pump is a result of our continuous improvement philosophy and working environment. The "next generation lubrication solution" is here with the Lubecore Spyder Pump.

Lubecore took a close look at the Spyder pump and received feedback from the market. We reviewed warranty information on the current 2500 systems on the road. We saw opportunity for improvement and acted.

The new Spyder pump which we are bringing to the market is a replacement of the existing pump we use. It will be able to do all the same things our current pump does but with a list of excellent improvements and additional features. Those improvements include the following:

Standard Features:

- Heavy Duty SS Bracket to ensure it will not break or corrode in even the toughest conditions.
- An insulated mounting system to prevent corrosion.
- Same standard bolt pattern as is currently used on the Lubecore EP0 pumps which allows users to utilize a wide variety of existing bracket options if needed.
- The SS bracket can be mounted in three different configurations to allow for more options when mounting.
- Magnet run test with two modes
  By placing the magnet (included with the pump) over the Lubecore logo on housing, you can cycle the pump in two ways. Two options
  1. Cycle once.
  2. Run continuously.
- Flashing LED to show power to the pump.
- Integrated potted submersible timer inside the pump housing.
- Easy electrical connection made outside the pump by use of high quality waterproof Deutsch connectors
- Grease filling connection located on the pump housing and facing away from the front.
- A large removable filter is incorporated into the filling connection to allow the user to clean the filter in the case that it becomes filled with debris.

- 12 and 24 Volt pumps available.
- The motor shaft with cam is supported 3 times.
- Standard 24 points based on demand.
- The bottom area that houses the timer is sloped and vented to ensure any moisture can drain out.
- Two overflow vent locations. One of the two vents is threaded to allow for an extension hose to be added and divert any overflow away from the pump area.
- The existing EP0 Pump 4 kg reservoir and Stainless Steel follow plate have been integrated into this design which allows for many benefits
    - The larger reservoir means a longer service interval between fills
    - The larger reservoir allows for more applications for this product line.
    - Makrolon reservoir. This material makes the reservoir glass break proof and able to withstand any and all environments it will be subjected to without the worry of breakage.
    - Red seal silicone follow plate with SS top makes it easy to see the grease level The grease is protected from water, dirt, and air. Stainless steel top to avoid corrosion.
    - Familiar look. This product feels more like part of the Lubecore family of products
    - Parts compatibility. For anyone using EP0/EP2 pumps – they have one type of reservoir parts – and one procedure to deal with any replacements
    - 4kg will first be offered. 6kg is immediately possible.
    - Unique product offering of a multi-line pump with a proven follower plate design which also includes an Archimedes screw. The agitator actively pushes grease towards the pumping elements and stirs the grease.

Other Options Available:

- Low level switch including automatic low level shut down
- Larger 6 kg reservoir

This pump is going to be available in mid-July. If you have any questions regarding the new and improved Spyder pump, please call or email us.

Please view the attached pages to see pictures of the features of this new pump.

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6 kg pump with EP2 grease and 4 kg pump with EP0 grease.

Detail picture showing how bracket attaches to pump and grease fill port with a zerc installed.

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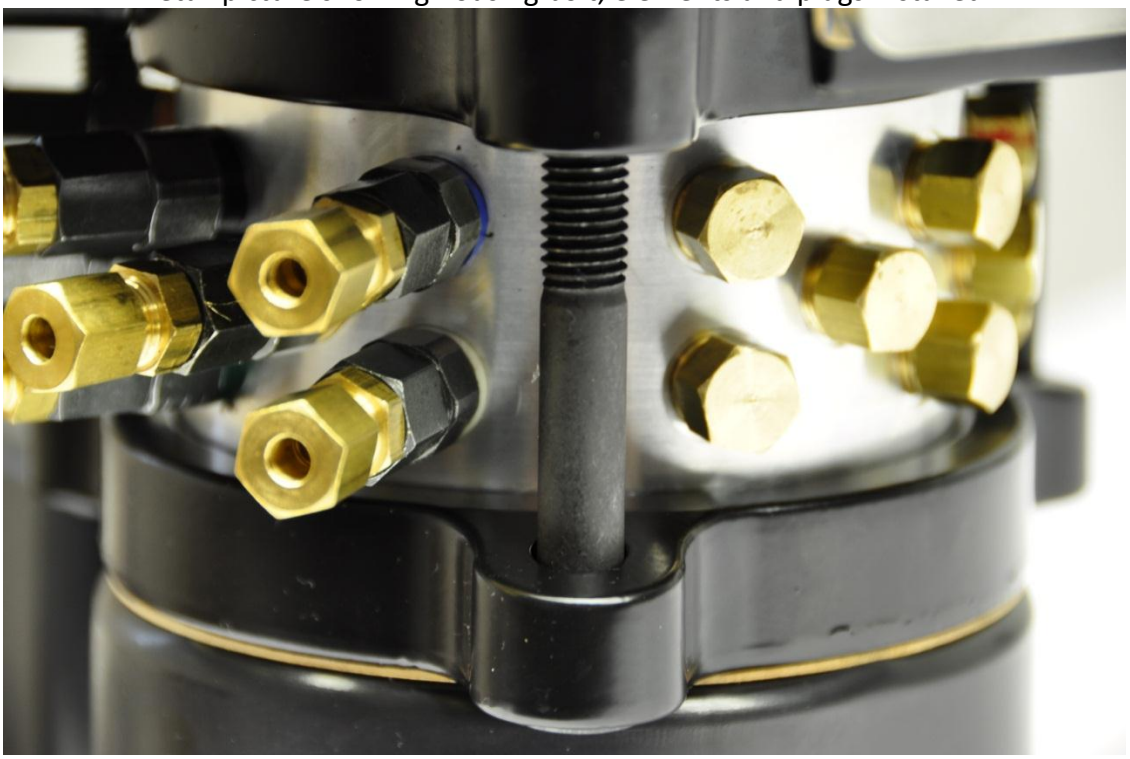
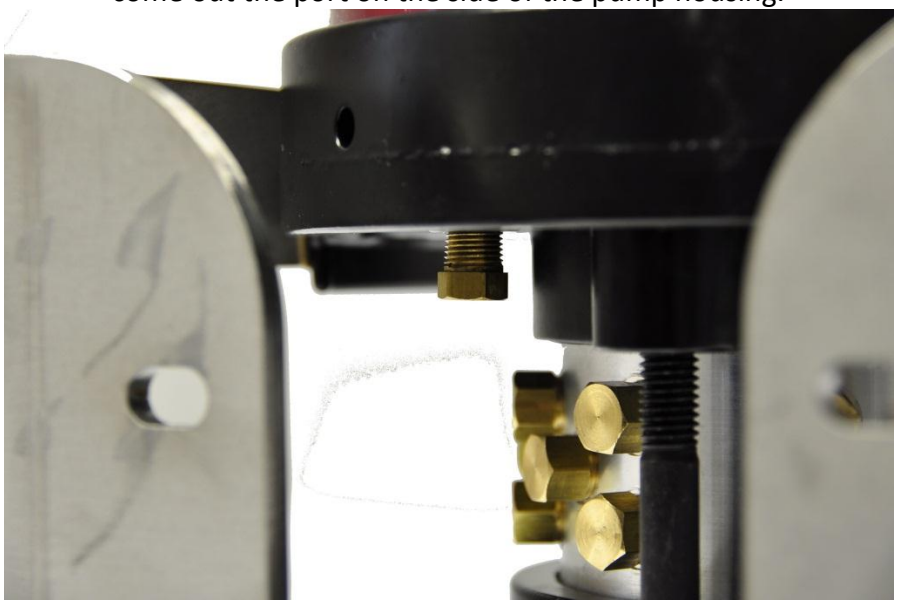
Detail picture showing housing bolt, elements and plugs installed.



Detail picture showing grease exhaust ports.
Lower port currently plugged can be used to attach hose or the overflow can simply be left to come out the port on the side of the pump housing.



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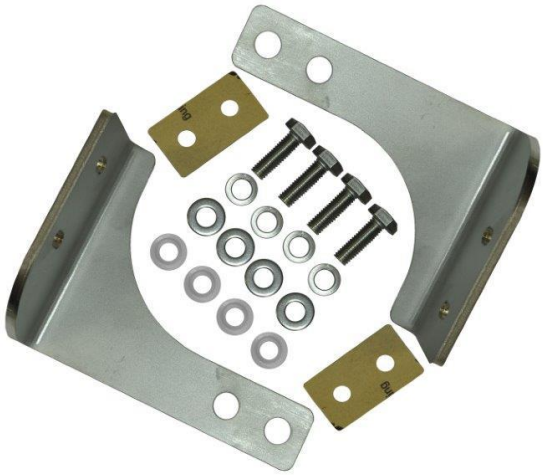
Archimedes screw used inside pump to push grease towards pumping elements

Large reservoir with SS foloweplate and silicone red seal.

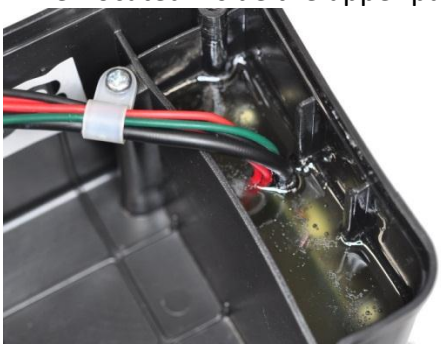
Insulated Mounting System



Timer can be cycled by holding the magnet over the logo on the lower housing

LED Display showing timer program code.

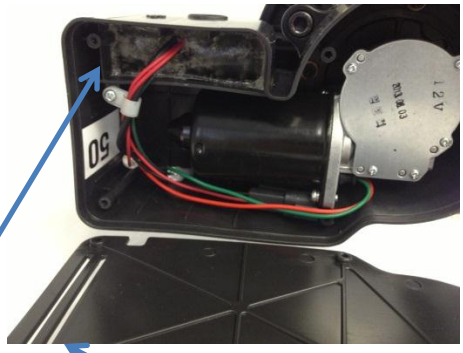
Fully Potted Timer located inside the upper part of the housing.



The fully potted timer is located in the upper part of the housing under the pump elements. It is protected from moisture ever getting to it in a few ways.

1. If water gets on top of housing, it will just roll off and there is no seams or places for water to penetrate into the housing.
2. The bottom cover of the housing has slots cut into it so if water did get into the lower housing, it would weep out the slotted holes.
3. Even if someone water did get into the bottom housing, the fully potted (completely submersible) timer sits at the top of that housing making it very difficult for water to reach it.

1 Water can't get into housing from the top.



2. The bottom of the housing is sloped to force water to run away from timer if it did get in. It also has slots on the lowest point to allow any water to weep out.

3. Potted timer sits at top of housing so will never "sit" in water.

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Easy wiring connection with a waterproof Deutsch connection coming out of the potted timer.

Integrated filter directly behind the grease fill port.