

# QUICK INSTALLATION GUIDE

Envirosys<sup>®</sup> Automatic Bar & Chain Grease System for Logging Equipment

Increased Productivity Reduced Operating Costs Complete Elimination of Chain Oils

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE!





ROTATION

## **SAFETY INFORMATION**

## Read and understand this Quick Installation Guide thoroughly before installing and using the ENVIROSYS® Automatic Bar & Chain Grease System.

#### Make sure to install the ENVIROSYS® system:

- According to the manufacturer's recommendations
- In accordance with all applicable codes
- By employing a qualified technician

#### When using your ENVIROSYS® system:

- Never modify the ENVIROSYS<sup>®</sup> system in any way
- Never use greases other than the ones recommended by the manufacturer
- Inspect the pump, control unit, pipes and cables as recommended

#### Other safety guidelines:

• Always use the necessary personal protective equipment

Install the **ENVIROSYS**<sup>®</sup> system in a place where re-filling the reservoir with grease can be done without risk of slipping and/or falling down

• Clean the ENVIROSYS® system as needed

**WARNING:** Before installing the **ENVIROSYS**<sup>®</sup> system, always TURN OFF main power to system.



## **QUICK INSTALLATION PROCEDURE**

**STEP 1** 



Install the Pump

- 1. Find a protected area with easy access (e.g.: the engine compartment, which provide good protection and a warmer environment during cold weather)
- 2. Leave enough space above and around the reservoir to allow refilling
- 3. Drill two 10mm (3/8'') holes horizontally (center to center distance = 120 mm or 43/4'')
- 4. Secure the pump on a solid surface using the provided bolts



#### Install the Control monitor

- 1. Find an appropriate space in the operator cabin
- 2. Ensure a reachable access for the operator to control the various injection parameters during operation
- 3. Screw the monitor in place

## CAUTION: Try to stay away from any electromagnetic interference (EMI) (e.g.: FM Radio)

## STEP 3



#### Installing the Grease Conduits (Not provided)

- 1. Use the existing oil conduit or hose, if any, by simply connecting it to the pump outlet
- In the absence of an oil conduit, use a ¼" diameter hydraulic quality hose (approx. 6.35 mm) equivalent to SAE 100 R2AT / DIN EN 853 2SN (400 bar / 5800 psi)
- 3. Install the conduit along the hydraulic lines on the boom of the harvester machine from the main unit to the saw bar. The feeding line installation should take into consideration the boom configuration (i.e. telescopic or extendable masts)
- 4. Connect the conduit to the pump unit and to the saw bar using JIC female swivel 04 type fittings whenever possible.



#### Installing the Electrical Cables

- 1. Connect harness #5 and #6 to harness #4 using the assembled cables
- 2. Connect harness #4 to harness #3 using the assembled cables. For this step, you must provide an access of 7/8" (22mm) in diameter to the operator's cabin
- 3. Identify and connect the saw signal (positive or negative) from harness #2 to harness #3. If no signal is available in the cabin, the signal will have to be brought from the saw unit located on the head. It is recommended that the signal be identified by the manufacturer
- 4. Connect harness #3 to the main power source / Relay Key (harness #1)

### **STEP 5**



Start by manually filling the supply hose with **Envirosys**<sup>®</sup> grease. Use a manual grease pump (not included) and the two (2) tubes of provided chain-grease. For this segment of the installation, do <u>not</u> use the **Envirosys**<sup>®</sup> system.

## **STEP 6**



Fill up the reservoir by adding one **Envirosys**® 3kg chain grease cubic bag.

## STEP 7





- The proper operation of the Envirosys<sup>®</sup> system will be confirmed when the control monitor turns ON
- 2. Press the "Initial Load" button
- 3. Verify that grease is coming out of the lubrication channel on the saw unit

## **STEP 8**



You are now ready to do what you are doing best, harvesting!

#### Note:

The **Envirosys**<sup>®</sup> system comes with factory setting grease injection parameters. All parameters can be modified by the operator at any given time. Please refer to the "**Envirosys**<sup>®</sup> User Manual" for detailed installation and operation procedure.

#### **CONTACT YOUR DEALER FOR MORE INFORMATION**

# **APPENDIX**

#### Once the installation completed, voltage calibration of the saw signal must be performed.

The following steps consist of signal detection from the saw controllers on the harvester head for the appropriate voltage to be captured by the ENVIROSYS<sup>®</sup> control monitor.



#### Calibration must only be performed with <u>positive</u> saw signal.

### **STEP 1**



- Activate the **Envirosys**<sup>®</sup> system by starting up your machine along with all electronic systems at the head.
- Press the "initial load" button

#### **STEP 2**



- Press and maintain the configuration button (gear icon) for 5 secs to access the configuration menu with entries in millivolt (mv).
  - $\rightarrow$  Example : 2000mv = 2volts

SAW 1 input value	High 9000 mV
SAW 2 input value	High 7000 mV
AUX 1 input value	High 5000 mV

- Press the saw signal button on the joystick for activation. You will notice a change of the entry value of SAW #1 on the **Envirosys**<sup>®</sup> screen. Note this entry value.
- Release the saw signal button on the joystick and note the new entry value that appears.
- Example of entry values to note: Saw signal on the joystick when activated: **12000 mv or 12 volts**, when released: **6000 mv or 6 volts**.
- You must select an in-between entry value on SAW #1(top)
- Example: In this case, the new entry value should become **9000 mv or 9 volts**.

**Note:** If the entry value reads Omv, that means the saw signal is negative and thus no need for a calibration of the Envirosys control monitor. Press the return button (house) to go back to the main screen. Calibration is completed. If the signal is positive, continue the calibration by following the steps below.

#### **STEP 4**



• To change the entry value of SAW #1 (top), press the SAW #1 button. You should get a light signal.

## **STEP 5**



- Using the arrows (top-down), change the entry value chosen at step #3.
- Press the OK button only once for ending the procedure.
- Press the f button once for returning to the main screen. The calibration is now over.

**Note:** With two saws signals the whole procedure must be repeated for SAW #2.