

LUSTOR[®] LUBRICATION STORAGE SYSTEM

Owners Manual



IMPORTANT

- Please read this Owners Manual carefully and thoroughly before installing and operating your Luster Lubrication Storage System.
- Please retain this owners manual for future reference after reading it thoroughly.

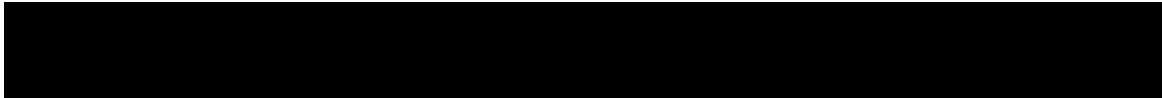


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FOR YOUR RECORDS

Write the model and serial numbers here:

(You can find them on the plate mounted at the front of your system)

Serial/Model # _____

Supplier Name _____

Date Purchased _____

INTELLECTUAL PROPERTY

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EXPLANATION OF SYMBOLS USED

This manual contains some common symbols and indications to alert you to specific areas of importance.



CAUTION!

A situation that, if not avoided, could result in property damage, equipment damage, or injury. FAILURE TO FOLLOW this caution will void your product warranty.

IMPORTANT

ALWAYS REFER TO THIS MANUAL OR CONSULT YOUR SUPPLIER FOR MORE INFORMATION.

- ALWAYS ensure that you wear appropriate Personal Protective Equipment (“PPE”) when operating this system.
- ALWAYS ensure that all system hoses, filters and fittings are securely fastened and in good working condition.
- THE OIL DRUM MUST ALWAYS BE VENTED TO ATMOSPHERE (preferably utilizing a Desiccant Air Breather).
- This product is NOT suitable for fluids with a flashpoint below 140°F (60°C).
- Always consult your MSDS or supplier to ensure chemical compatibility, as this system is NOT intended for use with caustic chemicals.
- Make sure the grounding cable is used at all times, to minimize electro-static charges.

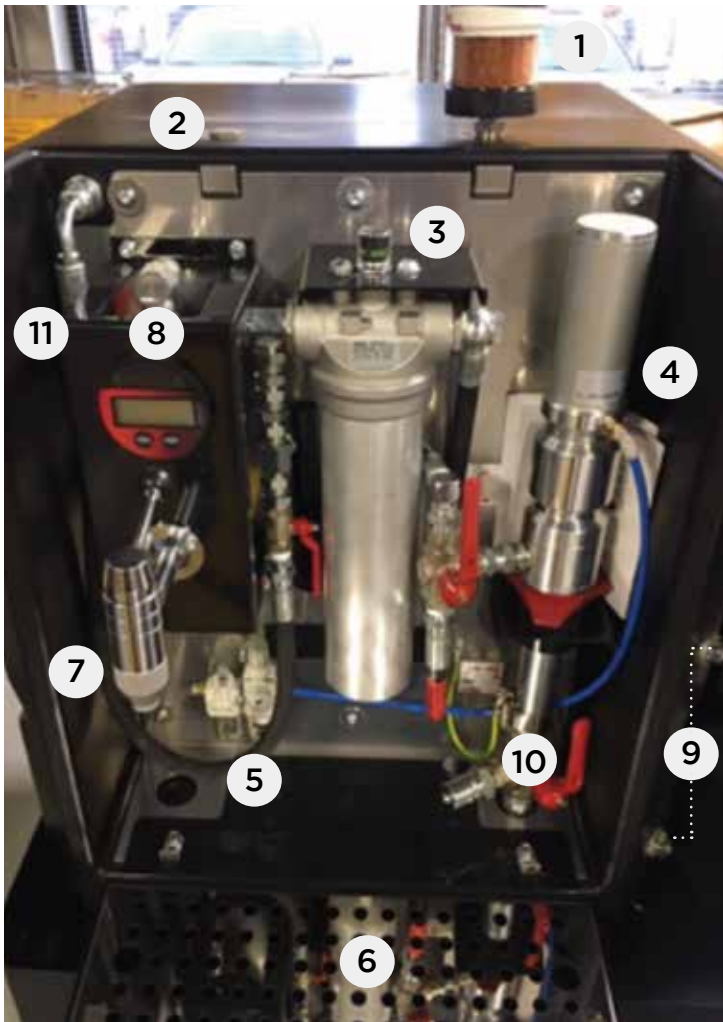
For ambient temperatures below 60°F (15°C) consult the manufacturer or supplier. Temperatures less than (<60°F / 15°C) can result in lubricant viscosity increasing above the rated ISO Code you specified at the time of order. Such adverse viscosity changes can cause higher system operating pressures than those set at the factory. System operating pressure should never exceed 28psi (2bar/0.2Mpa).

The Luster System conforms to EU Machine Directory 2006/EC EN ISO 12100:2010 and is CE marked and compliant.



1. INTRODUCTION

This manual contains some common symbols and indications to alert you to specific areas of importance.



1. Desiccant breather
2. Polypropylene tank
3. Hydraulic filter
4. Air/Oil pump
5. Air supply
6. Drip tray
7. Oil dispensing tap
8. Oil meter
9. Tank oil level
10. Male quick disconnect

2. PRE-INSTALLATION CHECK LIST

Check documentation to ensure you have all applicable parts before continuing. Contact your supplier if any parts are missing or damaged. Refer to your order for the correct specification of your supplied system.

All Luster Systems are supplied with the main operating parts assembled, the tanks and piping mechanisms pressure tested, and the air regulator set at optimum setting. This is to ensure that the installation at the customer is a simple process.

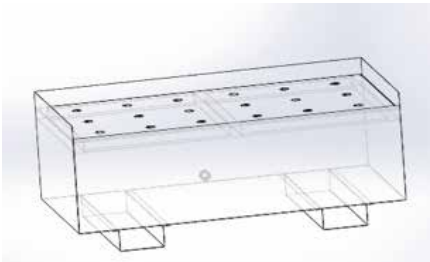
- Complete assembled system including tank, filter, pump, dispensing faucet (tap), consumption meter, bulls-eyes, hoses and couplings, air controller and piping, antistatic cable and lube identification label.
- Desiccant filter/breather and suction wand is packaged separately with Owner's Manual.

3. TOOLS & SITE PREPARATIONS

- Two people are recommended to complete this installation.
- A forklift will assist in placing the tanks and retention bunds into their correct position.
- Hand tools (adjustable wrench, level, and tape measure).

SET POSITION FOR SPILL PALLET/BUND #LSTSCP (if being used)

Place spill pallet on level surface, then place Luster unit(s) on top of spill pallet for spill containment.



4. INSTALLATION

STEP 1 The system is delivered pre-assembled and packaged.

STEP 2 Place the box on a flat, clean surface.

STEP 3 Unpack the system from its protective cardboard box.



STEP 4 Remove the front cover.



STEP 5 Fit the airline to the air regulator/controller.



It is recommended that the main air supply line has a pneumatic e-stop or main shut off valve. The air supply line is recommended to be not less than 6 mm diameter.

4. INSTALLATION - Continued



CAUTION!

The air controller is preset to 2 bar/0.2Mpa. Do not run the system above 2 bar, pump cavitation can occur.



STEP 6 Unpack the filter/breather.



STEP 7 Remove the elastic white band on the top of the breather to activate. Then install the breather to the top of reservoir by screwing it clockwise into the threaded opening.



1



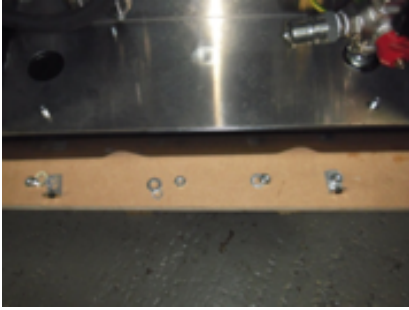
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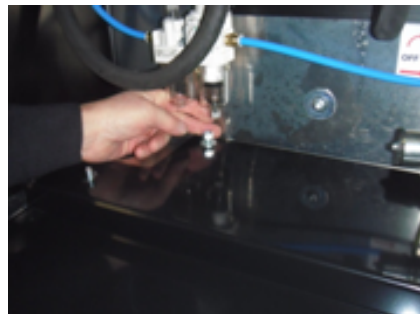
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4. INSTALLATION - Continued

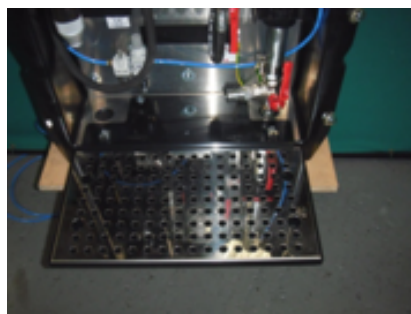
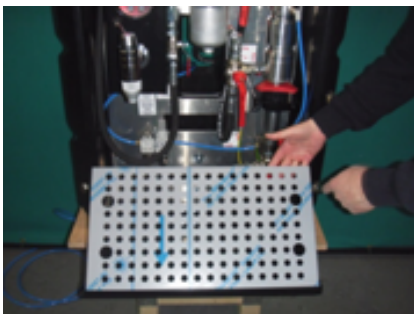
STEP 8 Remove the nuts from the studs on the system chassis to fit the drip tray.



STEP 9 Install the drip tray, insuring that the front screws include the front cover bump stops.



STEP 10 Remove the protective film, then insert the stainless steel tray insert.



5. INITIAL STARTUP

When the system is used for the first time there will be air in the pump, filter assembly and oil lines. This is normal and will not affect the system operation. Purging the air from the system is detailed in section explaining recirculation.

Positioning the Ball Valve Handles

Each tank has three ball valves, the position of these handles will determine how your system will pump the fluid. There are directional stickers located on the front reservoir panel. These stickers will indicate valve handle orientation for each setting.

The 3 ball valves are used to configure system for the three modes of operation; Fill, Dispense and Recirculation.



6. RESERVOIR MOUNTED SYSTEMS

Fill Mode

When the new, the reservoir is empty and will require transferring oil from a pail, tote or drum into the Luster reservoir.

1. Place suction hose wand into the oil to be transferred (pail, tote or drum).
2. Connect the opposite end of suction hose to the male quick disconnect.
3. Position ball valve handle #1 to "Off".
4. Position ball valve handle #2 to "Filtering" for filtering oil into reservoir or "Tank Filling" to bypass the oil filter.
5. Position ball valve #3 to "Recirculate".
6. Turn on air supply for activation of air/oil pump and to begin transferring oil into the reservoir.
7. Monitor the oil level through the sight glasses, to ensure the reservoir is not over-filled.
8. Turn off the air supply when transfer is complete, or reservoir is full.
9. Remove suction wand from pail, tote or drum and place ball valve handle #1 to "On", so pump will access oil in the Luster reservoir and no longer the hose wand.

Dispense Mode

To dispense oil from the Luster reservoir and into an OilSafe container.

1. Position ball handle #1 is placed in the "On" position.
2. Position ball valve handle #2 to "Filtering".
3. Position ball valve #3 to "Dispense"
4. Place a transfer container under the dispensing tap. If this is the first-time dispensing oil from the Luster system, expect some air to be purged from the lines and tap during the first dispense. Open the dispensing tap slowly, to allow the air to escape and for the oil supply to become steady stream of oil, before opening dispensing valve fully.

Recirculation Mode

This operation allows off-line filtration or recirculation of the oil in the Luster reservoir. The pump will circulate the oil in the reservoir, through the filter to improve oil cleanliness.

1. Position ball handle #1 is placed in the "On" position.
2. Position ball valve handle #2 to "Filtering".
3. Position ball valve #3 to "Recirculate"
4. Duration of recirculation will vary on reservoir level and oil type (heavier oils pump at slower flow rates). A typical rule is to turnover all the oil in the reservoir 2-3 times.

7. WALL MOUNTED SYSTEMS

Since wall mounted units do not have a reservoir (they connect directly to a pail, tote or drum), there are only two modes of operation: Dispense and Recirculate.

Dispense Mode

To dispense oil from the Luster wall mounted system.

1. Position ball handle to “Dispense”
2. Place an OilSafe container under the dispensing tap. If this is the first-time dispensing oil from the Luster system, expect some air to be purged from the lines and tap during the first dispense. Open the dispensing tap slowly, to allow the air to escape and for the oil supply to become steady stream of oil, before opening dispensing valve fully.

Recirculation Mode

This operation allows off-line filtration or recirculation of the oil in the pail, tote or drum. The pump will circulate the oil through the filter to improve oil cleanliness.

1. Position ball handle to “Recirculate”.

Duration of recirculation will vary on oil level and oil type (heavier oils pump at slower flow rates). A typical rule is to turn-over all the oil in the pail, tote or drum 2-3 times.



8. SERVICING FILTER ELEMENTS



REMOVING FILTER ELEMENT

MAKE SURE SYSTEM IS SHUT-OFF & AIR PRESSURE TO PUMP SHUT OFF OR DISCONNECTED.



Loosen filter element bowl, by rotating the metal bowl counter-clockwise. When the bowl is detached from the threads on the filter head, slide the filter element off the filter head and into the bowl for removal. Dispose of the filter element with the residual oil in the filter bowl, following local and state disposal regulations.

To install replacement filter element, reverse steps above.

Oil Viscosity & Material Compatibility

VISCOSITY

Maximum oil viscosity is 3000SUS. See chart below for flow rate corrections based on oil viscosity at ambient temperature of 70° F.

ISO VISCOSITY	32	46	68	100	220	320	460	680
Pump Flow Rate (GPM)	3	3	2.5	2	1.75	1.5	1	0.75

- Oil temperature will affect output flow performance of pump and actual flow rate

MATERIAL COMPATIBILITY

All of the metals and seals used in construction are suitable with general purpose lubricants. If you plan to filter speciality lubricants or have compatibility concerns, please see list of materials below or contact your Supplier:

Reservoir	Polypropylene Plastic
Control Panel	Stainless Steel
Drip Tray	Steel w/ Paint Finish & Stainless Steel
Pump	Steel w/ Buna Seals
Ball Valves	Brass Body (Buna/Teflon Seals)
Filter & Filter Gauge	Cast Aluminum, Steel w/ Buna Seals
Hoses	Nitrile, Rubber & PVC
Adapters	Steel w/ Zinc Finish
Reservoir Insert Ports	Brass
ISO-B Quick Disconnects	Steel Body (Buna/Teflon Seals)
Suction Wand & Hose	Stainless Steel & PVC
Spill Containment/Bund	Powder-coated Steel

9. REPLACEMENT PARTS

Oil filters are cartridge type with anti-static technology. Filter heads have differential visual indicators for filter element indicators. They will turn red when filter element requires service. For any additional information, please contact your OilSafe representative.

PART#	DESCRIPTION
#LST3	3 Micron Absolute Filter Element
#LSTF10	10 Micron Absolute Filter Element
#LSTF20	20 Micron Absolute Filter Element
#LSTPUMP3	3:1 Air/Oil Pump (Standard)
#LSTPUMP5	5:1 Air/Oil Pump (For use with hose reels or distribution plumbing)
#LSTSCP	150 Gallon / 568 Liter Spill Pallet/Bund
#821300	#821300 Hose Wand Assembly with ¾" female quick disconnect
#Z134	#Z134 Desiccant reservoir filter/breather

10. CUSTOMER SERVICE

For any customer service, ordering requests or warranty issues, please contact your Authorized Supplier or Whitmore. You may contact:

Whitmore - USA

1-800-699-6318

1-972-771-1000

sales@whitmores.com

930 Whitmore Drive

Rockwall, Texas 75087

Whitmore - UK

+44 1707 379870

info-UK@whitmores.com

Unit #D City Park, Watchmead

Welwyn Garden City, Hertfordshire AL7 1LT

Technical Support: techservice@whitmores.com

11. WARRANTY INFORMATION

OILSAFE LIMITED WARRANTY

OilSafe ("OS") warrants to the original product purchaser (hereinafter the "Customer") that the OS product for which the Customer received this warranty was designed, developed and manufactured using all due reasonable commercial care and good manufacturing practices.

OS products shall be free from defects in material and workmanship for 365 days from the original date of purchase by Customer. OS sole obligation under this warranty is to repair or replace the product, at OS' option. OS must be notified by Customer in writing of any claim under this warranty within 30-days of any claimed lack of conformity of the product. THIS WARRANTY IS INTENDED TO BE IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED. OS SPECIFICALLY DISCLAIMS THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Warranty Limitations:

In no event shall OS be liable for any loss, inconvenience or damage, whether direct, incidental, consequential or otherwise, resulting from breach of any express or implied warranty or condition, of merchantability, fitness for a particular purpose or otherwise with respect to this product, except as set forth herein. Some states or countries do not allow limitation on how long an implied warranty lasts so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which may vary, from location to location. This warranty will be interpreted pursuant to the laws of the United States and the State of Illinois. The original English language version (meaning) of this warranty controls over all translations; OS is not responsible for any errors in translation of this warranty and/or any product instructions. This warranty is not intended to confer any additional legal, jurisdictional or warranty rights to you other than those set forth herein or required by law. If any portion of this warranty is held to be invalid or unenforceable for any reason, such finding will not invalidate any other provision. For products purchased in countries other than the United States, please contact OS' authorized representative (i.e., the 'company' or 'person' who represented OS or brokered the 'sale') in the country where the product was purchased.

Warranty Service Options:

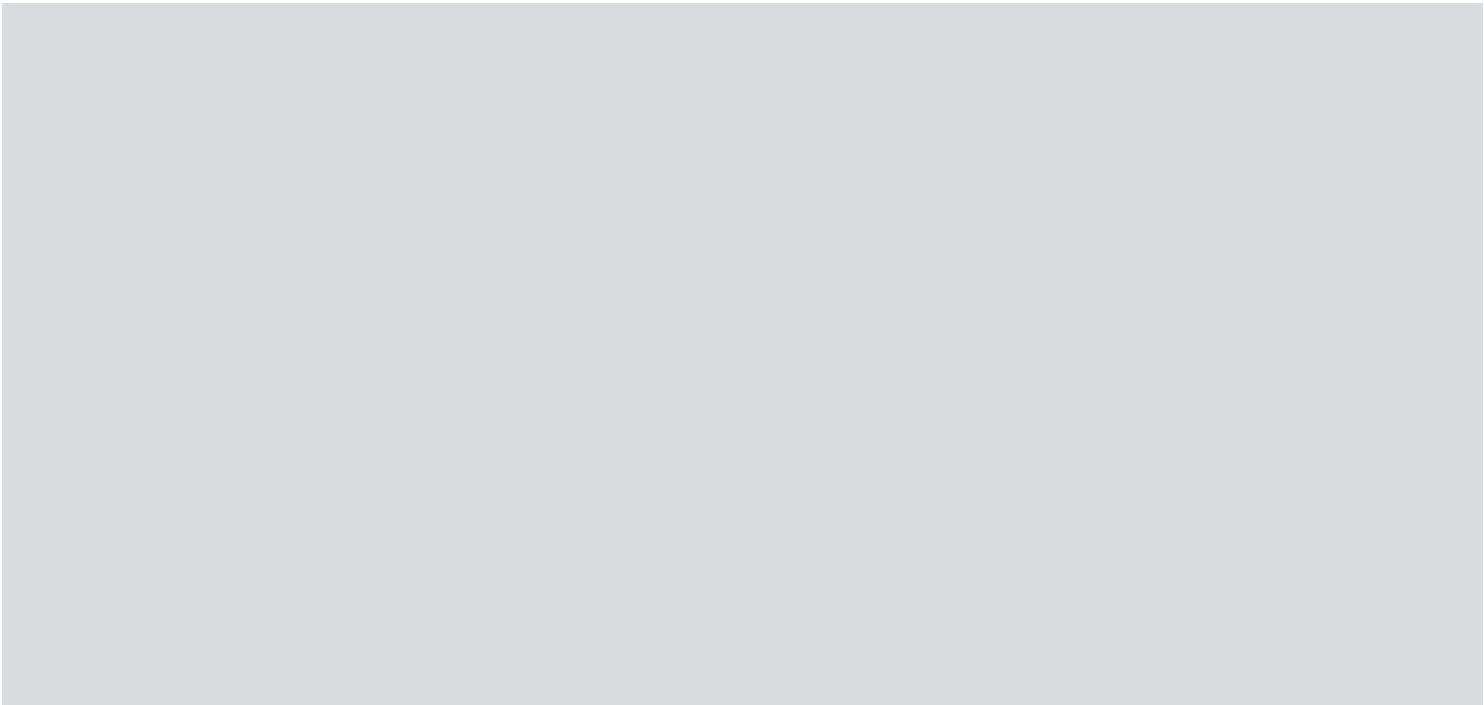
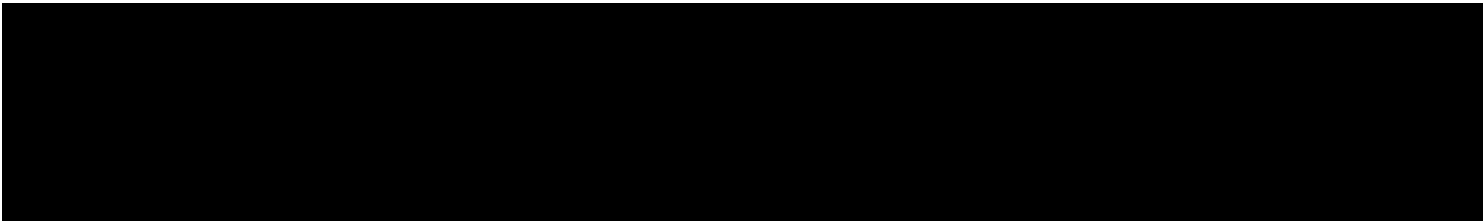
For service under this warranty you must notify OS in writing. Such notification must specify in writing the product in question by model and serial number, applicable purchase order number and/or the original of date of your written notification.

Any insurance and/or shipping costs incurred in returning your OS product for service pursuant hereto are your responsibility. OS will not be responsible for any products lost or damaged in shipment.

Warranty Exclusions:

Representatives and brokers of OS products are not authorized to modify this warranty in any way. It is the Customer's responsibility to regularly examine the product to determine the need for normal service or replacement. This warranty does not cover the following:

- Products that have been modified, neglected or poorly maintained, misused, abused or involved in accidents or natural disasters.
- Damage occurring during shipment of the product (such claims must be presented directly to the freight forwarder or shipping company).
- Damage to the product resulting from improper maintenance or repair, the use or installation of parts and/or accessories that are not compatible with the original intended use of the product, or the failure to follow the product warnings and usage instructions.
- Damage or deterioration to the surface finish, aesthetics or appearance of the product.
- The labor costs required to remove and/or refit and readjust the product covered by this warranty.
- Normal wear and tear to the product.
- Filter Cartridges, Desiccant Air Breathers, Level Gauges and other consumable items.
- Service Trips to Customer's location to teach Customer how to use the product.
- Defects that result from improper installation or damage not cause by OS.
- Damage to the product caused by accident, fire, floods or other acts of God.
- Or, any products for which the Customer does not follow the warranty procedures outlined above



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