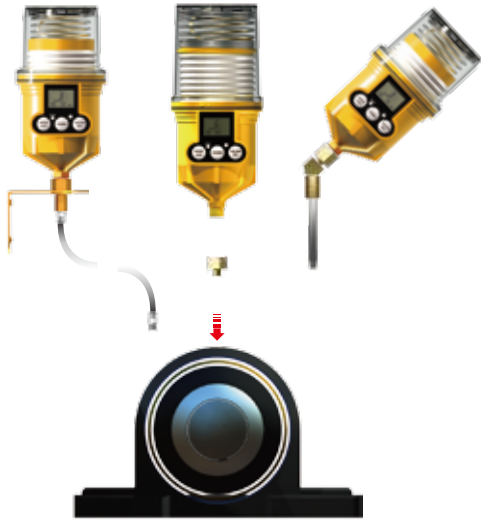


## Available Mounting Options

### Single Point Lubrication



To meet the requirements of UL Certification, the Pulsarlube EX is designed only as a single point lubricator. Do not use the Pulsarlube EX unit for multiple lube points.

**Direct Straight / Angle Mount** (with or without extension tube) is always preferable. However, for applications not allowing any direct mounts or extension mounts, remotely mount the unit using a 6mm O.D. (1/4") pre-filled lube line.

For remote installation, please make sure that lube lines are pre-filled with the same or compatible grease as the grease contained in the unit before installation of the Pulsarlube EX unit.

#### ⚠ WARNING

Keep the total length of the mount at 3m (10ft) or less.

#### NOTE

For outdoor use, for better visibility of the LCD display, it is recommended to install the Pulsarlube EX unit away from exposure to direct sunlight.



### Models

PULSARLUBE EX 125/250ml Grease Lubricator



NOTE Technical information is subject to change without notice.

## Certifications for Use in Hazardous Locations

Certification	UL	ATEX	KTL
Rating	Class I Division 2 Groups C, D	EEx nL IIB T5 IP54	Ex nL IIB T5 IP54
Gas Groups	D-C1 I Div 1/2	IIA	IIA
	D-C1 I Div 1/2	IIB	IIB
Maximum Surface Temperature	T6(85°C)	T5(100°C)	T5(100°C)
Enclosure Protection Indices	-	IP54	IP54
Classification of Hazardous Locations	CI I Div2 CI I Zone2(gas)	Zone2(gas) Zone22(dust)	-
Certificate number	E304815	LCIE 07 ATEX 6100X	12-KB2BO-0279X

The Pulsarlube EX is tested and certified by UL (USA), ATEX (Europe), and KTL (Korea). Refer to the table on the left when Certification for use in hazardous locations should be considered.

#### ⚠ WARNING

- Explosion Hazard - Do not remove or replace batteries unless power has been disconnected or the area is known to be free of ignitable concentrations of flammable gases or vapors.
- This equipment is suitable for use in Class I, Division 2, Groups C and D Hazardous Locations OR non-hazardous locations only.

SUBSTITUTION OF MOTOR AND REED SWITCH MAY IMPAIR SUITABILITY FOR DIVISION 2

Reference Designation	Description	Type of Protection
M1	Motor	Non-incendive Circuit
SW4	Reed Switch	Non-incendive Circuit

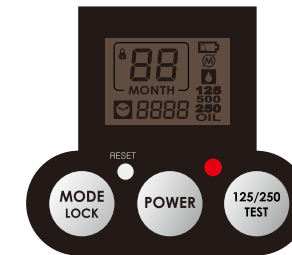
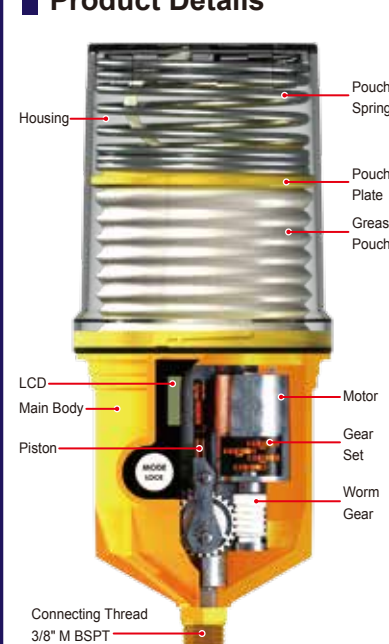
## Shelf Life and Product Warranty

The shelf life of each Pulsarlube EX unit is 1 year from the date of production. Product warranty is limited to original defects in material and workmanship and will not cover any collateral damage due to mishandling, abuse and/or any other inappropriate use of this product. Warranty period is 1 year from the date of purchase.

## How to Order

EX125 / PL1  
EX250 / PL1  
Grease Type  
Pulsarlube Model #  
(EX125: 125ml, EX250: 250ml)

## Product Details



### Buttons

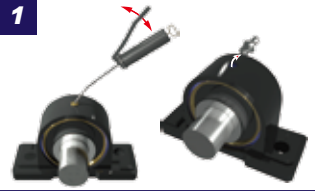
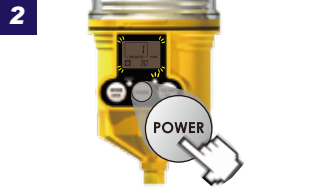

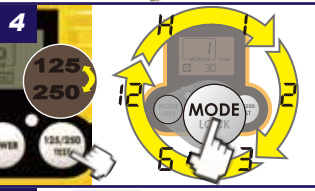
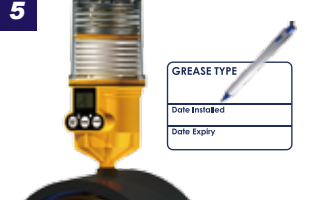
<b>MODE/LOCK</b>	Select the dispensing rate in ascending order: 1 ▶ 2 ▶ 3 ▶ 6 ▶ 12 ▶ Half (H)
<b>MODE/LOCK</b>	Deactivate "Automatic Lock Out" by pressing the MODE/LOCK button until the lock icon (🔒) disappears
<b>POWER</b>	Press the POWER button for 2 seconds to turn unit on or off
<b>125/250 TEST</b>	Select the volume of grease pouch Run a test cycle by pressing the TEST button for two seconds
<b>RESET</b>	Reset the unit when the unit malfunctions and/or after changing the service pack

### LCD Display - Function

<b>3 MONTH</b>	The dispensing period setting
<b>50</b>	The # of days remaining until the end of lube cycle
<b>🔒</b>	The unit is in "Automatic Lock Out" mode
<b>125 / 250</b>	Selected grease pouch capacity
<b>TEST</b>	The test mode is activated
<b>5:03</b>	The # of days after dispensing has completed
<b>4:03</b>	The # of days on stand-by mode due to excessive backpressure
<b>🔋</b>	Low battery power
<b>(M)</b>	Excessive backpressure exists
<b>🔴</b>	Empty grease level
<b>Red LED</b>	Signal lamp blinks periodically when battery power is low, excessive backpressure exists, or if grease level is empty

## Installation Instructions


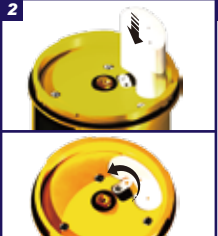

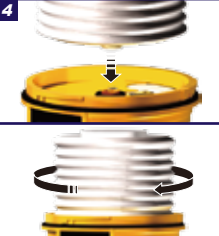
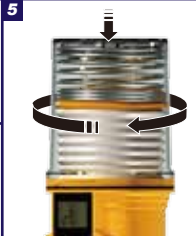
### For Completely Assembled Pulsarlube EX Unit - Initial Installation

	<p>Before installation of the Pulsarlube EX unit, remove contaminants around the lube point and ensure a clear passage by purging the lube point with a manual grease gun.</p> <p>Remove the grease nipple and check for hardened grease at the bearing lube point. If hardened grease exists, clean the lube point before mounting the Pulsarlube EX unit on the bearing.</p>
	<p>Turn the Pulsarlube EX unit ON by depressing the POWER button for 2 seconds. The red LED blinks once as soon as the POWER button is depressed.</p>
	<p>Press the TEST button for 2 seconds to run a test cycle. The unit will start to dispense grease and operate continuously in purge / test mode. This process will last approximately 2 minutes to ensure every function of the lubricator is working properly.</p>
	<p>Select the appropriate grease pouch volume by pressing the 125/250/TEST button.</p> <p>Press the MODE button to program the dispensing period. Each time the MODE button is pressed, the dispensing period changes in ascending order: 1 ▶ 2 ▶ 3 ▶ 6 ▶ 12 ▶ H (H=Half month)</p>
	<p>Install the Pulsarlube EX unit on the lube point using appropriate adapters and accessories as needed. Make sure that adapters and accessories are firmly tightened.</p> <p>The installation date and the scheduled date of lube cycle completion should be logged for maintenance purposes.</p>






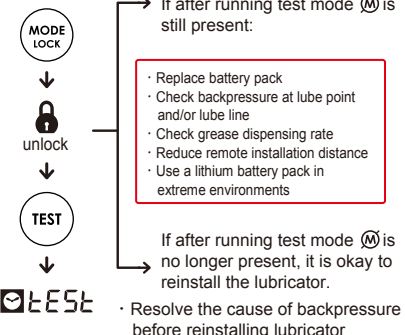
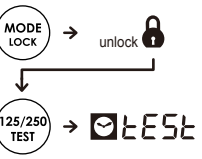
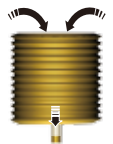
## Service Pack Installation

If the Pulsarlube EX unit is provided with a replaceable service pack, the following procedure is required before step #2 of above. For complete service pack installation instruction, please refer to the Service Pack user manual, step #2~6 in the section of "How to Replace a Service Pack".

### Quick Reference for Service Pack Installation

				
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## Troubleshooting Guideline

Symptom	LCD Display	Possible Cause of Trouble	Troubleshooting Steps
Unit Won't operate	Normal	<ul style="list-style-type: none"> <li>Electrical malfunction of CPU or circuitry</li> <li>Contact problem (open circuit) at buttons in control panel</li> </ul>	Contact your local supplier or manufacturer for either repair or replacement
	Blank Screen	<ul style="list-style-type: none"> <li>Electrical malfunction of CPU or circuitry</li> <li>Battery pack installed incorrectly</li> <li>Faulty or damaged battery pack</li> <li>Old battery pack was not replaced</li> </ul>	<ol style="list-style-type: none"> <li>Make sure the battery pack is installed correctly</li> <li>Replace battery pack</li> <li>Contact your local supplier or manufacturer for either repair or replacement</li> </ol>
Low Battery Indication		<ul style="list-style-type: none"> <li>Expired battery pack</li> <li>Extreme storage conditions (temperature or humidity)</li> <li>Faulty or damaged battery pack</li> <li>Extreme operating conditions</li> </ul>	<ol style="list-style-type: none"> <li>Ensure operating environment meets requirements</li> <li>Replace battery pack</li> </ol> <p><b>WARNING</b></p> <ul style="list-style-type: none"> <li>The battery pack <b>must be replaced together</b> with each grease pouch replacement</li> <li>Keep battery pack stored in a cool, dry place to prevent damage</li> </ul>
Unit Won't Dispense Grease	   	<p>Excessive backpressure exists due to:</p> <ul style="list-style-type: none"> <li>Over lubrication</li> <li>High backpressure in lube line due to hardened grease, ruptured lube line, long distance remote installation, etc.</li> <li>Low battery power due to extreme operating conditions</li> </ul>	<ul style="list-style-type: none"> <li>Uninstall the lubricator from the bearing or remote installation kit</li> </ul>  <p>If after running test mode (M) is still present:</p> <ul style="list-style-type: none"> <li>Replace battery pack</li> <li>Check backpressure at lube point and/or lube line</li> <li>Check grease dispensing rate</li> <li>Reduce remote installation distance</li> <li>Use a lithium battery pack in extreme environments</li> </ul> <p>If after running test mode (M) is no longer present, it is okay to reinstall the lubricator.</p> <ul style="list-style-type: none"> <li>Resolve the cause of backpressure before reinstalling lubricator</li> </ul>
	Normal	<ul style="list-style-type: none"> <li>Grease pouch incorrectly fitted</li> <li>Grease pouch empty</li> <li>Grease hardens due to cold temperature or high oil separation</li> </ul> <p>If the lubricator reaches the end of its cycle and there is lubricant still remaining in the grease pack</p> <ul style="list-style-type: none"> <li>Check for grease hardening within the grease pack or in the lube line.</li> </ul>	<ul style="list-style-type: none"> <li>Install and secure grease pouch correctly</li> <li>Replace grease pouch and battery pack</li> <li>Use appropriate quality grease for operating environment</li> </ul>  <ol style="list-style-type: none"> <li>Deactivate Auto Lock</li> <li>Run test mode</li> <li>Check if grease is dispensing</li> </ol> <p>If the issue is not solved, refer to the steps below.</p>  <p>To check for hardening of the grease.</p> <ol style="list-style-type: none"> <li>Purge hardened grease out of grease pack, then re-install.</li> <li>Run the test mode and ensure that the lubricator is dispensing properly. Install the unit onto lube point.</li> <li>If the lubricator is still not dispensing, replace with new grease pack.</li> </ol>