



Manual Instructions

VERTOOL

Model : VRH300 Automatic Lubricator

VRH300 automatic lubricator manual

● Use before

Thank you for using the automatic lubrication pump produced by our company!
 In order to ensure the safe operation and proper use of the automatic lubrication pump, we strongly recommend that you read the following information carefully before use.
 For more information, please contact your local supplier or manufacturer.

● Product specification











Specification	Data
capacity	300cc
Max pressure	15 bar
Size	φ 107*215mm
Lubrication cycle	Half a month -12 months (13 options)
Applicable temperature	-15°C—70°C
Applicable power supply	4.5V Alkaline battery pack (optional lithium battery pack)
Single dose	0.56cc
Grease range	NLGI 1#/2#/3#
Joint thread	3/8 NPT
Weight with grease	1200g

● Product details

Note:
 1, the initial remaining lubrication days = set lubrication cycle (month) *30;
 2, every 24 hours the remaining lubrication days will be reduced by 1;
 3, when the remaining lubrication days decline to "0", need to replace the exchange service package;
 4, if the oil bag is not replaced in time, the remaining lubrication days will decrease to "-15".

● Operating Instructions

Step 1 "Boot"	 "Power" key	Long press the "Power" key for about 3 seconds, release the indicator when the light is on, and the lubrication pump will automatically run once to complete the startup operation.
Step 2 "Unlock"	 +  Press Power+Model	After the lubrication pump is turned on, the screen will automatically lock. At this time, hold down the "Power" and "Model" keys at the same time. For about 3 seconds, the automatic lock symbol will disappear and the unlocking operation will be completed.

Step 3 "Lubrication Cycle Selection"	 <p>Press Power+Model, and then click Model</p>	In the unlocked state, hold the "Power" and "Model" button at the same time, about 3 seconds, the lubrication cycle character start flashing, at this time click the "Model" button, the screen will display in turn H / 1/2/3/4/5/6/7/8/9 10/11/12 altogether 13 options, set screen shows expected lubrication cycle Numbers, operation is completed.
Step 4: Forced Lubrication	 <p>"Model" key</p>	In the unlocked state, long press "Model" for about 3 seconds, and release the lubrication pump after it starts to work. At this time, the lubrication pump will automatically run for 5 times to complete the forced lubrication operation.
Days remaining lubrication reset	 <p>After pressing Power+Model twice, press and hold the Model key</p>	In the unlocked state, hold down the "Power" and "Model" keys at the same time for about 3 seconds, the lubrication period character starts to blink, then hold down the "Power" and "Model" keys at the same time for about 3 seconds, the remaining lubrication days character starts to blink, then long press "Model" for 3 seconds. Displays at blinking characters:  Release the key to complete the remaining lubrication days reset operation.
Shut down	 <p>"Power" key</p>	In the unlocked state, hold down the Power key for about 3 seconds, and release it when the indicator is on.
Note: Other operations except "power on" need to be completed in the screen unlocked state.		

● Lubrication cycle selection table

Lubrication cycle set (Month)	Lubrication interval (hours)	Daily lubrication (cc)	Monthly lubrication (cc)	Capacity (cc)	Single lubrication (cc)
0.5	0.7	20	600	300	0.56
1	1.3	10	300		
2	2.7	5	150		
3	4	3.33	100		
4	5.3	2.5	75		
5	6.7	2	60		
6	8	1.67	50		
7	9.3	1.43	42.9		
8	10.7	1.25	37.5		
9	12	1.11	33.3		
10	13.3	1	30		
11	14.7	0.91	27.3		
12	16	0.83	25		

● Installation methods and procedures

Installation mode: Direct Installation or remote Installation



Direct mounting (using the reducer connector directly mounted on the fuel filler)



Remote installation (with tubing and bracket or extension rod installation)

Installation steps and precautions:



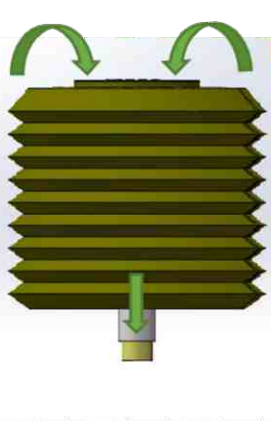


1. Confirm whether the grease equipped with the lubrication pump meets the lubrication requirements of the equipment before installation;
2. clean up the dirt around the lubrication point before installation; If necessary, use the manual grease gun to dredge the grease circuit;
3. when installing, each connection point use sealing tape and tighten firmly to prevent oil leakage;
4. After the installation is complete, perform the first four steps in "Operation Instructions" to complete the installation.

Perrot installation accessories (optional) :

Reducing joint 3/8 RPM M10*1 (external thread)		<p>Note: 1, the installation accessories in the above list are optional parts, not in the standard configuration of the lubrication pump;</p> <p>2. The installation accessories in the above list are installation accessories under normal conditions. If the installation site environment is special, you can contact the local distributor or manufacturer to customize the installation accessories.</p>
Nylon tubing $\Phi 6 \times 1$		
Mounting bracket - straight/bent plate		
Lock female connector - M10*1 inner and outer wire		
Flat gasket		
Extension bar		

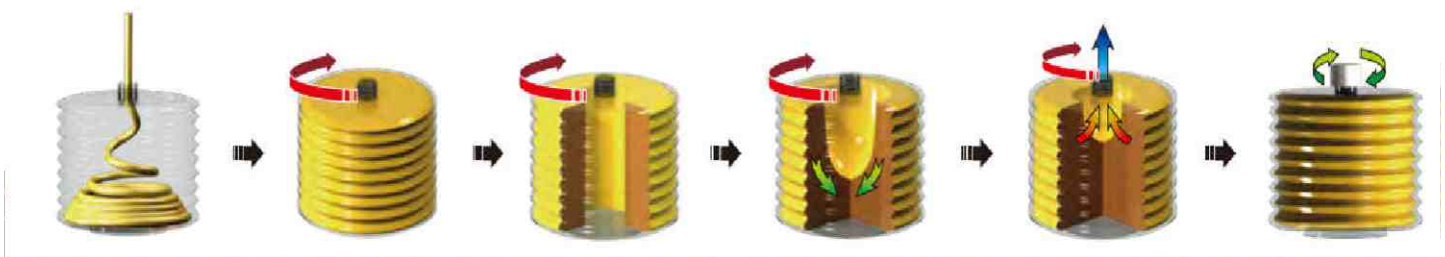
● Switch service package Installation

The switching service package includes battery pack, grease pack, and dust cover

				
<p>Step 1: Unscrew the transparent cover counterclockwise and remove the old battery and old grease pack.</p>	<p>Step 2: Load the new battery pack and rotate the battery press sheet counterclockwise to press the battery pack firmly.</p>	<p>Step 3: Press the grease bag filled with grease by hand so that a small amount of grease spills out of the outlet.</p>	<p>Step 4: The outlet of the grease bag is aligned with the inlet thread of the lubrication pump and screwed in clockwise (until tightened).</p>	<p>Step 5: Tighten the transparent cover clockwise with the lubricating pump body (ensure that it is screwed into the bayonet). Finally, put a dust cover on the outside of the lubrication pump.</p>

● Grease packing and centrifugation

The grease package of the automatic lubrication pump should be accurately filled with the grease grade and quantity, and the gas in the grease package should be removed by centrifugal method.








Note:

1. A large amount of gas in the grease bag will cause the plunger mechanism inside the lubrication pump to produce suction phenomenon, resulting in inaccurate grease filling dose, thus affecting the lubrication effect of the equipment.
2. Dealers and manufacturers shall not be responsible for product failure or damage caused by unauthorized filling and secondary use of grease.

● Common information tips and alarm instructions

Liquid crystal display	Prompt signal or alarm information description	Prompt signal or alarm troubleshooting method
Lower right corner  flicker	The battery is low	Replace the battery
At the bottom of the screen, "E-00" blinks alternately with the remaining days of fuel injection, and the indicator blinks	Indicates that the lubrication cycle is about to or has ended (The warning signal will appear when the remaining lubrication days are less than 3)	Replace the exchange service pack and reset the remaining lubrication days (see item 5 of the operating instructions)
Right side of the screen  The E-01 is blinking and the indicator is blinking	Lubricating pump internal structure fault alarm information	1, can restart the lubrication pump, observe whether it starts normally; 2. If it cannot be restarted normally, return to the factory for maintenance.
Right side of the screen  The E-01 is blinking and the indicator is blinking	Lubricating grease pipe channel blocked fault alarm (grease hardening in the pipeline channel or too much grease in the equipment bearing caused by excessive pressure)	1, forced lubrication operation, observe whether it can be eliminated; 2. Remove the lubrication pump, connect the manual butter gun to the lubricating oil pipe, impact the blocked grease in the oil pipe with high pressure, and the pipe can be used normally after dredging.
<p>Note:</p> <ol style="list-style-type: none"> 1. In order to attract the attention of field personnel, the product in the prompt signal and fault alarm, the lower indicator will blink (red). 2. After the field personnel find the indicator blinking, please confirm the prompt code first and eliminate it one by one according to the process. 3. The "E-00" prompt signal begins to appear when the remaining lubrication days are 3. If the on-site personnel do not replace the grease bag in time, the signal will continue until "-15" to ensure the lubrication effect of the lubrication pump, at which time the lubrication pump will stop working. 4. If the prompt signal or alarm cannot be excluded according to the normal process, please contact the local distributor or manufacturer. 		

● Product warranty period and after-sales service

The warranty period of this product is 12 months (from the date of purchase), during the warranty period due to the quality of the product itself, free replacement of new products of the same model.

Special attention: the quality problems of the product itself are limited to the defects of the material and process functions of the product itself, excluding the direct damage and incidental damage caused by the user's own improper operation, improper operation, malicious and brutal operation and other unreasonable operations.



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