



Liquid Propulsion Package User Guide

Please read all instructions before using this product. Keep this manual at hand until you feel comfortable. This is a new and exciting product that can come with risk of damage if not properly used. Liquid damage is not protected under warranty, so please be certain to review this manual or visit Eluktronics.com/How-To-LPP for video tutorials and step-by-step guides.

Note: The audibility during injection mode and the initial period of use will be louder than the normal operation. Give it time to settle and work out any potentially accumulated air bubbles.

Package Contents

1. Liquid Propulsion Package x 1 (with rubber lid)
2. Black Dual Head Drain Plug x 1
3. Water Tube x 2
(with black and silver connectors attached to each end)
4. Liquid Injection Funnel x 1
5. Hexagon Water Stopper Cap x 2
(already connected to the Liquid Propulsion Package)
6. User Manual x 1

SCAN FOR INSTRUCTIONS
AND VIDEOS ONLINE



 **Note:** An outgoing quality control (oqc) testing process with distilled water has been performed for each Liquid Propulsion Package. This ensures a closed loop circuit with no leakage occurs with proper installation and adherence to the instructions.

 **CAUTION:** Using unauthorized extension cables, tubes or modifying/tampering with the Liquid Propulsion Package will invalidate your warranty.

 **Power Adapter:** Output rated 19.5Vdc, 11.8A or 19.5Vdc, 16.9A or 20Vdc, 14A. Power will vary based on the hardware purchased and included with your system.

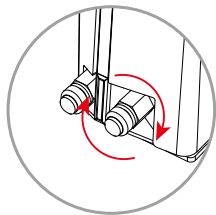
 **The unit can be operated at an ambient temperature of max. 35°C (95°F). Do not subject it to temperatures below 5°C (41°F) or above 35°C (95°F). Freezing can occur with result of potential damage.**



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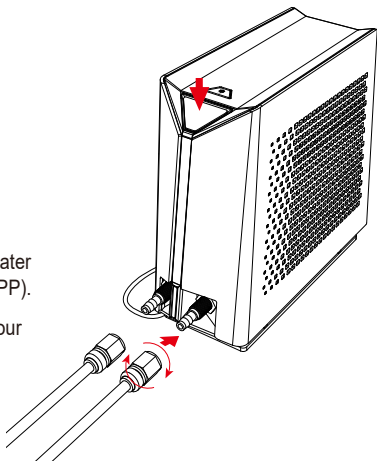
Preparation

1. Read the User Manual entirely before first operating this device.
2. Distilled water and a small cup to fill the LPP is recommended. We do not recommended filling directly from a gallon jug of distilled water as the likelihood of spillage will increase. Do NOT use tap water!
3. Verify the (black and silver) connectors are attached to the braided water tubes firmly.
4. Place the LPP on a flat surface.
5. Proceed to remove water stopper caps and connect the water hoses as shown below.



Gently remove the black hex water stopper caps (already on the LPP).

Keep these caps to transport your LPP in the future.



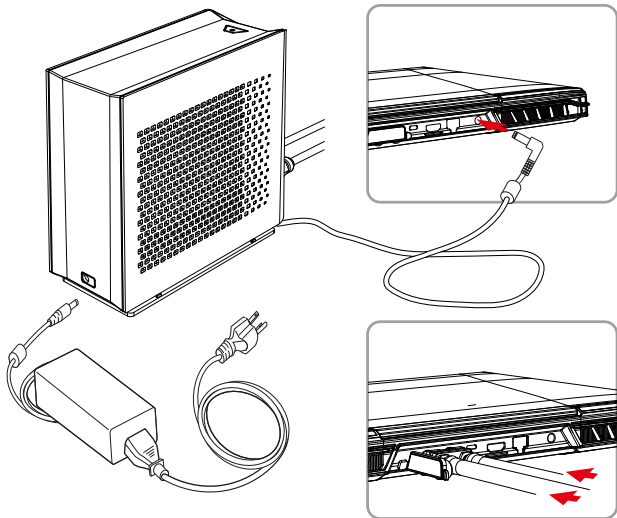
Connect the braided water hoses to the LPP. Hand tighten the hoses **ONLY** until you begin to feel resistance.



Tools should not and do not need to be used to attach the hoses.

Connecting the LPP to the Laptop

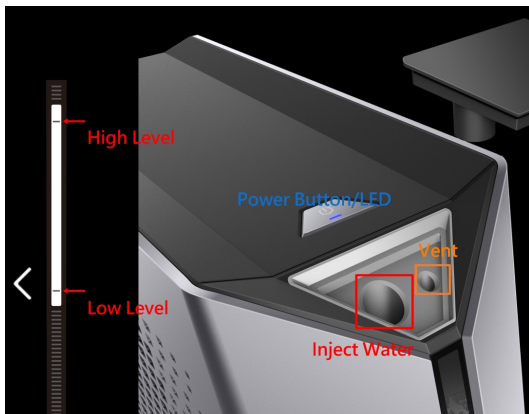
1. Place the laptop on a flat surface. Open the rubber flap on the back side of the laptop.
 2. Insert the silver connector in parallel to the laptop. You will hear a small click sound when attached correctly. *Note: Refrain from twisting the water tubes. They do not need to be straightened.
 3. Connect the power adapter cable (included with your laptop) to the power port on the back of the LPP (as shown below).
 4. Unwrap the power cord from the base of the LPP and connect to the laptop power port (also shown below).
- Note: Please do not power on the laptop or LPP just yet. Liquid needs to be injected to the LPP to prevent air bubbles.



Insert connectors parallel into the laptop.

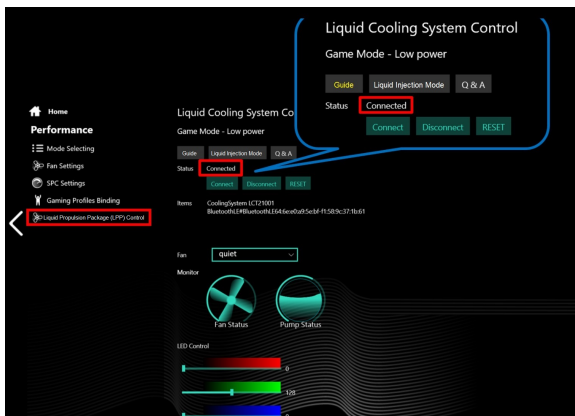
Inject liquid into the Liquid Propulsion Package

1. Open the fill port (rubber lid) on top of the LPP. There are two holes (illustration below). The larger hole is for filling, and the second is a ventilation hole. Use the included funnel, and slowly begin filling with distilled water.
2. Monitor the level when injecting the water. Add the liquid above the MAX indicator for the first time.
3. Avoid tilting the box after filling. Recap the rubber lid, and make sure that no leakage is observed.
4. After the LPP is filled, long press the power button for 4-5 seconds. The power button will glow in purple indicating it is entering "Liquid Injection Mode".
5. Alternatively, if you've already powered on the laptop, open the "Eluktronics Control Center" application. Click "Performance" then select the "Liquid Propulsion Package (LPP) Control" module. Press the "Liquid Injection Mode" to enter injection mode.



Operate your Liquid Propulsion Package

1. Plug in the power cord to the power outlet.
2. Turn on the laptop.
3. Press the power button on the LPP, and the LED indicator will start glowing.
4. Open the application "Eluktronics Control Center," click "Performance" then "Liquid Propulsion Package (LPP) Control" module. Click "Guide" for illustrated instructions.
5. Click the "Connect" button then the LPP and the laptop will pair via Bluetooth (the fan and water pump are then activated).
6. Check all ports for leakage after the first few minutes of use. If there is, turn off the power, and validate all steps above have been performed properly.
7. The water level drops in standard operation. Please add distilled water, and make sure the water level is above the marker indicator. Adding more liquid after initial operation may be necessary due to liquid now traveling through your laptop and piping of the LPP.

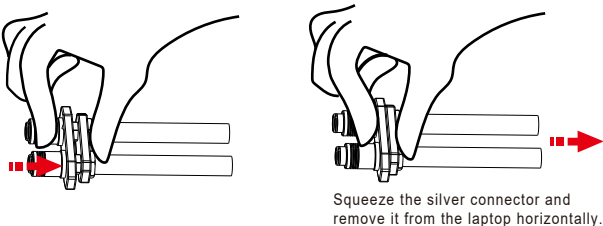


The LPP should pair automatically via Bluetooth after your initial connection so long as:

1. The laptop has the Eluktronics Control Center installed
2. The Bluetooth connection is not already occupied by another Bluetooth device

Disconnecting the LPP

1. Disconnect via the "Elektronics Control Center" by visiting "Performance" - "Liquid Propulsion Package (LPP) Control".
2. Turn off the power using the button on top of the LPP.
3. Verify the temperature of the silver connector attached to the laptop is not too hot to touch. Gently squeeze the silver connector, and remove it from the laptop horizontally.
4. Drain remaining water from the laptop with the included dual head drain plug.
*This is a very important step, especially if you intend to travel with the laptop. Take caution to keep any liquid from touching the laptop
5. Close the rubber plug seal firmly back in to the laptop.



Disconnect the Water Tubes

When you are finished using the LPP and intend to disconnect the water tubes, please follow the instructions listed below

1. If the steps above were followed, the LPP is now powered down, the silver connector has been disconnected from the laptop and the remaining water has been carefully drained from the laptop as well.
2. Gently unscrew the water tubes from the LPP.
3. Replace the black hexagon water stoppers back onto the LPP.



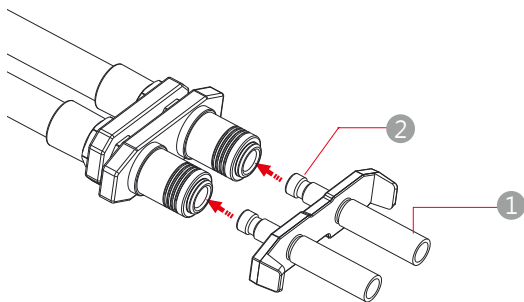
To reduce the possibility of heat-induced injury or equipment overheating:

1. In the case that the connector is connected and the water is not flowing, the connector may accumulate heat in the metal part because of the temperature generated by the operation of the system. Therefore, please be cautious when first touching the connector.
2. If you want to remove the quick release connector, make sure the LPP is turned off (to avoid water leakage), and test the connector by hand to make sure the temperature is not too high before removing it.

Change Water or Travel

If you are to change the water or need to travel, please follow the instructions listed below:

1. Since system operation may lead to accumulated heat in the silver connector, it is recommended to remove the connector only after turning off the device.
2. Insert **(1)** into laptop's drain tubes (4mm deep) to assist draining all remaining liquid from the laptop.
3. Put laptop's rubber flap back on (squeeze it tight) to avoid minor water leakage.
4. Insert **(2)** on to the silver connector to drain the liquid in the LPP unit.
5. Remove the Black Dual Head Drain Plug when the liquid is emptied, and gently tighten the Hexagon Water Stoppers on the drain port.



When you are ready to remove the Black Dual Head Drain Plug, squeeze the silver connector to unlock and remove it.



1. If you need to travel, please empty the liquid in the Liquid Propulsion Package, Water Tubes and laptop's liquid cooling copper pipes with the included dual head drain plug to avoid water leakage during transportation. Device malfunction may occur if this is not done properly.
2. To prevent water scaling, please change the water regularly.
3. Check if there is water leakage when connecting or disconnecting the device, and clean up in time.

Product Overview

Front side view/ Back side view

Left side view/ Right side view

① Drain Pipes

② Power LED

③ DC Port

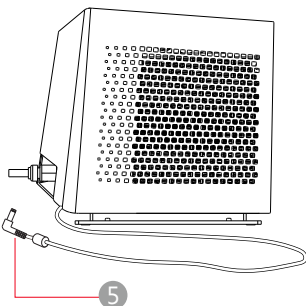
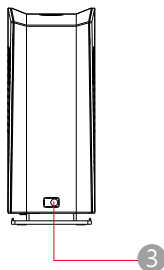
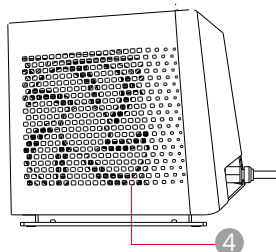
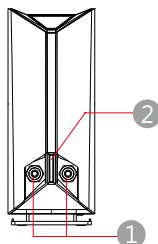
④ Vents

⑤ Power Connector

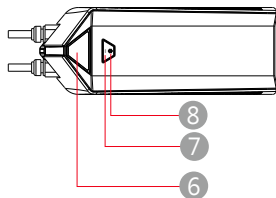
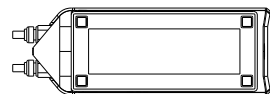
⑥ Rubber Lid

⑦ Bluetooth

⑧ Power Button



Top side view/ Bottom side view



The power cord can be stored around the base

LED Status Indicator Guide

1. Liquid Injection: Blinking (Purple Color)
2. Searching: Blinking (Blue Color)
3. Connected: Solid (Blue Color)
4. Liquid Cooling System Error/Pump Idling: Blinking (Orange Color)

Troubleshooting Guide

1. If water leakage occurs: Please disconnect the device immediately, and verify the tubing is tightly connected.
2. Check if the laptop and the LPP is paired properly via Bluetooth before activating, if not:
 - 2-A. Verify the power is turned on and connected.
 - 2-B. Check if the Eluktronics Control Center is installed and running.
 - 2-C. Validate Bluetooth is turned on in your laptop wireless settings.
 - 2-D. Restart the laptop and the LPP so it can pair again.
3. In the event the liquid propulsion package is malfunctioning, the power button will flicker with a red light and shut down automatically after 10 seconds.
4. If there is air in the water tubes: Use the dual head drain plug, and insert it into the silver connector for two seconds. Then squeeze the water tubes and lean the LPP to drain the air out (please verify there is no leaking from the water tank during this process).

Device Maintenance

1. Replace the water in the LPP tank regularly. If you begin to hear audible bubbling, validate there is enough liquid in the reservoir.
2. If the LPP will be in temperatures lower than 5°C (41°F), please drain the water completely from the laptop, the LPP and associated tubes to prevent potential damage caused from freezing.
3. Using distilled water is recommended.

Note:

1. Due to different water quality, mineral water has a higher chance of water scaling.
2. Coolant and chemical toxic liquids are not recommended.
3. Please do not connect to power before injecting water. Only turn on the power/connect once the reservoir has been filled with liquid properly.
4. If there is abnormal noise coming from the pump, this could be the result of air bubbles still trapped inside the tubes.

Reminder:

1. Please read this entire User Manual before operating the device.
2. Please check all ports in case of water leakage before powering up the device.
3. In the event the connector is attached and the water is not flowing, the connector may accumulate heat in the metal part. This is because of the temperature generated by the operation of the system. Please be aware of the high temperature when touching.
4. If you want to remove the quick release connector, make sure the LPP is turned off (to avoid water leakage), and test the connector by hand to make sure the temperature is not too high before removing it.
5. Any changes or modifications that result in damage to the LPP or laptop not expressly approved by Eluktronics will void your warranty.
6. Using unauthorized extension cables/tubes or tampering of the LPP will invalidate your warranty.
7. Please reach out to Eluktronics technical support in the event you encounter issues that you are unable to remedy or resolve via this user manual or how-to guides provided at Eluktronics.com/How-To-LPP.



We are here to help!

Toll Free: 1-888-552-0750

Local: (302) 380-3242

Telephone Business Hours:

Monday - Friday: 9AM to 5PM EST

Saturday & Sunday: Closed

For after hours support, please visit www.Eluktronics.com/Support

Regulation Information

CE compliance

This device is classed as a technical information equipment (ITE) in class B and is intended for use in living room and office. The CE-mark approves the conformity by the EU-guidelines:

- EMC Directive 2014/30/EU,
- Low Voltage Directive 2014/35/EU(equals A2 : 2013) ,
- RF Directive 2014/53/EU

FCC Information

FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the manufacturer or an experienced radio/TV technician for help.

RF Exposure Warning

This equipment must be installed and operated in accordance with provided instructions. The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.