

Peak LED Solutions

Maintenance Information

For optimal LED flashlight performance and long trouble free life several simple maintenance programs need to be followed.

BATTERIES: There is a difference in battery quality and not always the most expensive is the best. There can be bad or under-powered batteries in any package and by any manufacturer. For general usage the lower cost batteries work well. For special applications the premium brand name batteries can give as much as 10% greater run time. Lithium batteries are best for long term storage and can tolerate hot or cold conditions better than other chemistries.

All batteries are subject to out-gassing and leakage under severe usage. Out-gassing produces Hydrogen gas and when combined with Oxygen inside the battery compartment a spark can sometimes cause a mini explosion. This will not cause any damage to the flashlight. The result is the formation of water and a vacuum inside the battery compartment. The head can become locked because of the vacuum and cannot be turned. Simply submerge only the battery compartment into hot water to decrease the force of the vacuum and increase the physical size of the battery case.

LUBRICATION: A small amount of lube is generally required for smooth operation. The amount should be determined by the user. Most lubes are dielectric, which means that they do not allow electricity to flow. Too much lube could decrease light output while not enough will make the head hard to turn. We use black electrical grade carbon filled grease in the switch and negative contact screw that does flow electricity. We will also use an anti-seize compound on the head to help break in the threads on some flashlights. This may be removed and replaced afterwards with silicon grease or other equivalent lube after the head becomes smooth to operate. This can also be applied to the threads of the negative battery screw. Most hardware stores carry small containers of clear silicon grease.

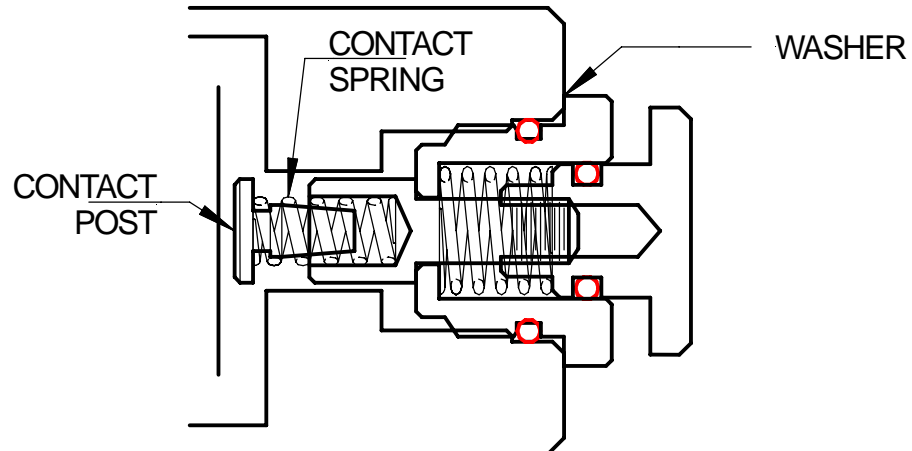
CLEANING: This is the most commonly overlooked problem with battery powered flashlights. It is the visibly undetectable corrosion that builds up on the flashlight contacts and the surfaces of the battery. They may look clean however we have observed an increase of up to 20% in light output, even with brand new batteries, when all surfaces are cleaned. We offer a commercial product as a service to our customers; it is called a Power Pen. This is a product specifically designed to remove corrosion from batteries and contact surfaces and leave a corrosion inhibiting surface. It comes in a small pen sized applicator with a felt tip that you rub on the electrical contact surfaces. Use this on all small battery powered

devices, not only on flashlights. It works wonders on drill motors, screw-drivers and other power tools. It can be used on all types of batteries.

Do Not Use On Car Batteries.

LENS: We have chosen to use a scratch resistant polycarbonate lens for our flashlights. This was done as to prevent the lens from breaking when dropped. The difference in light output between glass and poly is typically less than 5%. The difference in light output is usually a few minutes of run time. When glass breaks damage could result to the reflector or even the irreplaceable LED itself. Also if a glass lens breaks in a pants pocket or a purse the user may be cut. Most flashlights that have a glass lens are not made to be carried in a pants pocket with other metal objects, but in a holster attached to a belt. Peak LED Solutions flashlights are pocket friendly and designed to be with you constantly. Replacement lenses are free; just send a self-addressed, stamped envelope and the type of flashlight the replacement is needed for.

PUSH BUTTON SWITCH: This is a mechanical switch that may be adjusted for length for different flashlights.



The Contact Post may be removed if required to change the turn on position or a longer one is also available. A spacer washer can be placed between the switch and the battery case if needed. Both may be requested from Peak. Other spare parts may be requested such as o-rings, springs, and battery anti-rattle foam washers. Send a self-addressed, stamped envelope with your requirements.

We take personal pride in manufacturing the best LED flashlights in the world. Please contact us at sales@peakledsolutions.net or 1-877-881-7325

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