
TECHNICAL INFORMATION

ABS Thermoplastic Rechargeable Flashlight Catalog No. PL20P

INTRODUCTION

Designed for constant use by law enforcement professional worldwide, the PL20P is definitely one light that's made to last. That's because it's constructed of lightweight, impact-resistant ABS thermoplastic which makes it rugged yet lightweight.

This light only weighs 26 oz. It's easy to handle thanks to the PL20P's extended knurled grip area that stretches from the lamp to the base of the unit.

And at 30,000 candlepower, the PL20P will give you brilliant light. It will run uninterrupted for 90 minutes between charges and comes with an AC Charger as well as a 12V DC Adapter.



No. PLC20

PROCEDURE

The PLC20 Flashlight Charger Sleeve offers a convenient way to store your flashlight and charge it at the same time. It should be mounted in an upright position using the attached

mounting bracket and supplied screws. Use the sleeve with the PL20P's charging cable, lighter plug or AC adapter.

CHARGING OPTIONS

AC Adapter

The PLC21T is designed for office use. Simply plug the charging connector into the charging jack in the bottom of the charger housing and the adapter into any 120V AC outlet to recharge the flashlight. The adapter's cord is 6' long.



No. PLC21T

Cigarette Lighter Plug

If you want to use your car battery to recharge your flashlight, you'll need the PLC21C. This plug allows you to recharge your unit anywhere a 12V cigarette lighter outlet is available. Plug the charging connector into the charging jack in the bottom of the charger housing and the adapter into the cigarette lighter receptacle in the vehicle.



No. PLC21C

Continuous Charging is accomplished when power is supplied to the charger even when the ignition is OFF. Your PL20P's charger will draw approximately 220mA current while charging. Continuous charging while the ignition is OFF for extended periods of time could drain the vehicle battery—check the operation of your cigarette lighter for continuous charging prior to connecting the charger.

Non-Continuous Charging is accomplished when power is supplied to the charger only when the ignition is in the ON or ACCESSORY position.

Permanent 12V Charging Cable

With the PLC21P wired directly to the fuse box in your car, you'll have a permanent way to recharge your flashlight without tying up



No. PLC21P

the cigarette lighter. The cable's positive and negative leads are tagged. Connect the positive wire to a terminal in the fuse box that supplies power when the ignition is in the ON or ACCESSORY position. Next, connect the negative wire to a ground source and plug the charging connector into the charging jack in the bottom of the charger housing. **NOTE:** *Never connect the wires directly to the battery.*

CHARGING THE BATTERY STICK

The PL20P Flashlight comes equipped with the PL20SB Rechargeable NiCad Battery Stick. Prior to your unit's first use, the battery stick should be charged for 16 hours. **NOTE:** *Use only the PLC20 Flashlight Charger Sleeve supplied with your unit.*



Be certain the PL20P is turned OFF before inserting it into the PLC20 Charger. The charger has an LED indicator to verify the unit is charging, but does not indicate the state of the battery charge. **NOTE:** *If the LED doesn't illuminate when the unit is inserted, the LED bulb may be burned out.* The unit will not overcharge if left in the charger for extended periods of time. It is not recommended to leave the unit on constant charge if the surrounding temperature is below 10°F (-12°C) as damage to the battery stick may result.

Warnings

1. Always insert the PL20SB Battery Stick with the positive end toward the bulb of the unit. Never reverse it. Although the unit will operate, charging at reversed polarity is actually a deep discharging operation. Charging a reversed battery will create excessive pressure in the cells causing permanent damage. A battery discharged in this manner is rendered unusable and voids the warranty.
2. Never operate the battery stick with a damaged positive contact button. If the positive contact is pushed in, replace the PL20SB immediately. DO NOT attempt to recharge a battery stick damaged in this way. The collapsed button will not allow gases to escape—the increase in pressure can suddenly rupture the battery, damaging the flashlight.

3. Never use the PL20SB if its protective PVC jacket is damaged, broken, or partially removed. The jacket provides important insulation to prevent shorting inside the unit. A visual check of the battery stick is recommended every time the lamp module is changed.
4. Never fully discharge the battery stick. The unit should be recharged as soon as the beam becomes noticeably dim. The unit operating at a low intensity after being fully charged may indicate that the battery stick needs to be replaced. If not, check the tailcap spring to be certain the small end is facing the battery.
5. The PL20SB may develop a “charge memory” causing the unit to operate only for short periods of time after recharging and results from constantly recharging the battery after short periods of use. The battery’s memory needs to be RESET. In order to reset the memory, leave the unit ON until almost drained. Turn the flashlight OFF and recharge it for a full 16 hours. Repeat this process again to restore the battery stick to its original capacity.
6. The battery stick will discharge itself after 3 to 4 months of non-use if not stored in the charger. If the unit is to be stored for long periods of time, be certain to remove the battery stick. Before using the flashlight after extended shelf storage, fully recharge the battery stick.

HALOGEN LAMP REPLACEMENT

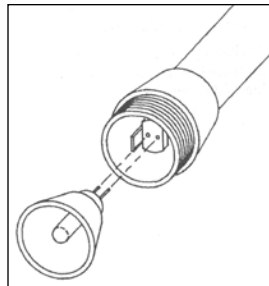
The PL20P Flashlight has a one-piece lamp module (No. PL20LM) consisting of a 6V, 10-watt halogen bulb permanently mounted in an aluminum alloy reflector housing. The wire pins on the base of the PL20LM are extremely fragile. Never attempt to remove the lamp module unless it needs replacement. Damage to the PL20LM due to improper installation or removal could void the warranty. Take proper precautions noted when replacing the halogen lamp module.



No. PL20LM

1. Allow sufficient time for the lamp module to cool. Failure to do so may result in burns caused by the considerable heat the halogen lamp produces during use.

- Carefully unscrew the face cap and remove, being cautious of the flashlight lens housed within.
- Grasp the side of the PL20LM and pull out straight. DO NOT twist or rock while removing.
- Note the orientation of the holes in the lamp socket inside the head of the unit and the long leg of the bracket holding the lamp socket. Line the lamp socket holes and the flat on the new reflector housing with the long leg of the bracket.
- Carefully and slowly press the lamp module straight down until seated against the head of the flashlight. DO NOT twist or rock while installing. **NOTE:** *DO NOT touch the surface of the halogen bulb—skin oils can cause the bulb to fail prematurely. To remove inadvertent fingerprints, clean with a small amount of denatured alcohol.*
- Check the lens and gasket inside the face cap for proper seating. Carefully screw the face cap back onto the flashlight head. DO NOT twist the reflector while screwing the face cap into place.



MAINTENANCE

The PL20P Flashlight is designed to provide dependable service under rugged conditions. However, the PL20LM Halogen Lamp Module is the most sensitive component of the unit. After several minutes of use, the filament becomes hot and increasingly brittle. Care should be taken not to drop the unit which may damage this filament.

To ensure ease of disassembly, keep all threaded parts and O-rings lubricated with silicone grease. Immediately replace O-rings and gaskets if damage occurs to keep the unit weatherproof.

All electrical contact points should be routinely checked to keep them free of corrosion.

LIFETIME LIMITED WARRANTY

SIRCHIE warrants the Phaser-Lite™ Flashlight System except the lamp to be free from defects in parts and workmanship. However, SIRCHIE hereby limits its obligation under this Warranty to repairing or replacing an improperly operating unit at the discretion of SIRCHIE.

WARRANTY PERIOD

The flashlight, charger, charger adapters, battery stick and all internal components except the lamp are warranted for a period of one (1) year from the date of purchase. There is a limited lifetime warranty on external case components only (face cap, head, barrel, and tail cap). Should your Phaser-Lite™ Flashlight System fail to operate, contact Customer Service by phone at (919) 556-2534 or fax at (919) 554-3527 to obtain a Return Authorization (RA) Number. Carefully pack and return damaged unit to SIRCHIE, 100 Hunter Place, Youngsville, NC 27596 along with proof of purchase (shipping charges prepaid). **IMPORTANT: DO NOT ship flashlight with battery inside. Notice of any defect must be given to the company with 30 days of the date the defect becomes apparent.**

SERVICE AGREEMENT

If, after the one (1) year warranty period, your Phaser-Lite™ Flashlight System should require repair or service, contact SIRCHIE Customer Service (phone: 919-556-2534, fax: 919-554-3527) to obtain a Return Authorization (RA) Number and a quotation on repair cost. Return to SIRCHIE® Labs at the address provided above (shipping charges prepaid), along with proof of purchase and check or money order for the full amount of quotation. Your unit will be repaired at the discretion of SIRCHIE and promptly returned. **NOTE: Additional freight charges may be required outside the continental USA.**

BATTERY WARRANTY

The rechargeable NiCad battery is warranted for one (1) year. Please call to obtain prices on replacement battery outside of the warranty period.

REGISTRATION CARD

Complete and return the enclosed Registration Card within thirty (30) days of purchase date to SIRCHIE, 100 Hunter Place, Youngsville NC 27596 and retain proof of purchase. Failure to comply with the above will invalidate the Warranty described herein.

WARRANTY DISCLAIMER

This Warranty is expressly in lieu of any other expressed or implied warranties, including any implied Warranty or merchantability and of any other obligation on the part of the seller.

This Warranty expressly excludes recovery of consequential and incidental damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This Warranty shall not apply to any Phaser-Lite™ Flashlight System or component thereof if the defect or damage arose from damage to the product while within the possession of the consumer not caused by product defect caused by Acts of God, accidents, fire, floods, running over by vehicles, falling from extreme heights, underwater use, or contaminating chemicals and gases. SIRCHIE further disclaims any obligation under this Warranty if the damage or defect was caused by alteration or unreasonable use, including failure by consumer to properly maintain or by the use of unauthorized parts or service.

This listing deliberately refrains from any effort at an exhaustive expression of contingencies and is to be interpreted in all cases

sought to be brought within its scope in terms of its underlying reason and purpose.

SIRCHIE does not authorize any party to assume for it the obligation to repair or replace the warranted product during the warranty period.

The Warranty contained herein extends only to the purchaser of record whose Warranty Registration Card is received within thirty (30) days of purchase at SIRCHIE and is not assignable or transferable.

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

If any provision of the Warranty or if any application thereof to any person or circumstances is held invalid or unenforceable, the remainder of the Warranty and application of the provision to other persons and circumstances shall not be affected thereby.

