




TROTEC PWLS 05-10 Led Work Lamp User Manual

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TROTEC PWLS 05-10 Led Work Lamp



Notes regarding the instructions

Symbols



Warning of electrical voltage

This symbol indicates dangers to the life and health of persons due to electrical voltage.



Warning of hot surface

This symbol indicates dangers to the life and health of persons due to hot surface.



Warning

This signal word indicates a hazard with an average risk level which, if not avoided, can result in serious injury or death.



Caution

This signal word indicates a hazard with a low-risk level which, if not avoided, can result in minor or moderate injury.

Note

This signal word indicates important information (e.g. material damage), but does not indicate hazards.

Info

Information marked with this symbol helps you to carry out your tasks quickly and safely.



Follow the manual

Information marked with this symbol indicates that the instructions must be observed.

You can download the current version of the instructions and the EU declaration of conformity via the following link:



PWLS 06-10



Safety

General Power Tool Safety Warnings

Warning

Read all safety warnings, instructions, illustrations and specifications provided with this power tool.

Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term power tool in the warnings refers to your mainsoperated (corded) power tool or battery-operated (cordless) power tool.

General Power Tool Safety Warnings – Work area safety

- Keep work area clean and well lit. Clutter or dark areas invite accidents.
- Do not operate power tools in explosive atmosphere, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

General Power Tool Safety Warnings – Electrical safety

- Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
- If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply. Use of an RCD reduces the risk of electric shock.

General Power Tool Safety Warnings – Power tool use and care

- Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with

the switch is dangerous and must be repaired.

- Store idle power tools out of the reach of children and

Do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.

- Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- Use the power tool, accessories and tool bits etc. in accordance with these instructions, Take into account the working conditions and the work to be performed.
Use of the power tool for operations different from those intended could result in a hazardous situation.
- Keep handles and grasping surfaces dry, clean and free from oil and grease. Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

General Power Tool Safety Warnings – Battery tool use and care (PWLS 05-10)

- Use batteries of type AA.
- Do not insert rechargeable batteries into the device.
- Never charge batteries that cannot be recharged.
- Different types of batteries and new and used batteries must not be used together.
- Insert the batteries into the battery compartment according to the correct polarity.
- Remove discharged batteries from the device. Batteries contain materials hazardous to the environment. Dispose of the batteries according to the national regulations.
- Remove the batteries from the device if you will not be using the device for a longer period of time.
- Never short-circuit the supply terminal in the battery compartment!
- Do not swallow batteries! If a battery is swallowed, it can cause severe internal burns within 2 hours! These burns can lead to death!
- If you think batteries might have been swallowed or otherwise entered the body, seek medical attention immediately!
- Do not use any damaged batteries. Damaged batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.
- Do not expose the battery to fire or excessive temperature. Exposure to fire or temperature above 75 °C may cause explosion.
- Keep new and used batteries and an open battery compartment away from children.

General Power Tool Safety Warnings – Battery tool use and care (PWLS 06-10)

- Recharge only with charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when operated with another battery pack.
- Keep the USB inputs closed with the rubber side cover to prevent them from contamination. If you do not follow this advice and the USB inputs become contaminated, it might not be possible to plug in the USB charging cable.
- Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions. Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

- Keep charger and USB charging cable clean.
Contamination entails a risk of electric shock.
- Do not operate the charger on highly combustible ground (e.g. paper, textiles etc.) or in an inflammable environment. The heat generated by the charger during charging entails a risk of fire.
- Do not charge the battery of the device if you have switched on the LEDs or the light at the same time. The device may be damaged. Always switch off the LEDs or the light before charging the battery.
- Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.
- Do not expose a battery to fire or excessive temperature. Exposure to fire or temperature above 75 °C may cause explosion.

General Power Tool Safety Warnings – Service

- Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.
- Never service damaged battery pack. Service of battery packs should only be performed by the manufacturer or authorized service providers.

Intended use

Use the devices PWLS 05-10 and PWLS 06-10 according to the technical data and only for a temporary illumination of indoor and outdoor areas, e.g. for construction sites.

Foreseeable misuse

Any other use than the one described in the chapter “Intended use” is regarded as reasonably foreseeable misuse.

Personnel qualifications

People who use this device must:

- have read and understood the instructions, especially the Safety chapter.

Residual risks

Warning of electrical voltage

Electric shock due to insufficient insulation!

Check the device for damages and proper functioning before each use.

If you detect damages, do not use the device any longer.

Do not use the device when either the device or your hands are damp or wet!

Warning of electrical voltage

Work on the electrical components must only be carried out by an authorised specialist company!

Warning of electrical voltage

There is a risk of a short-circuit due to liquids penetrating the housing!

Do not immerse the device and the accessories in water. Make sure that no water or other liquids can enter the housing.

Warning of explosive substances

Do not expose the battery to temperatures above 75 °C! Do not let the battery come into contact with water or fire! Avoid direct sunlight and moisture. There is a risk of explosion!

Warning of hot surface

Some parts of this product can become very hot and cause burns. Particular attention has to be given where children and vulnerable people are present!

Warning

Dangers can occur at the device when it is used by untrained people in an unprofessional or improper way! Observe the personnel qualifications!

Warning

The device is not a toy and does not belong in the hands of children.

Warning

Risk of suffocation!

Do not leave the packaging lying around. Children may use it as a dangerous toy.

Caution

Keep a sufficient distance from heat sources.

Note

If you store or transport the device improperly, the device may be damaged.

Note the information regarding transport and storage of the device.

Information about the device**Device description**

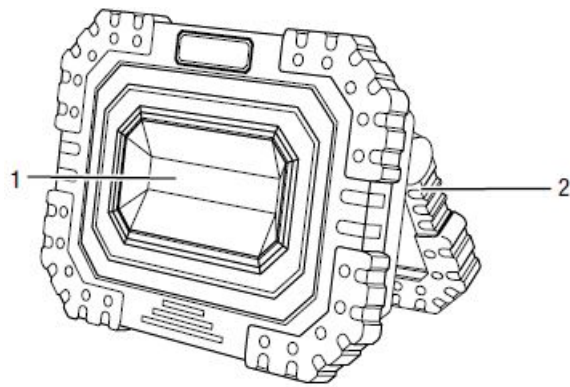
The devices PWLS 05-10 and PWLS 06-10 are equipped with light-intense surface LEDs.

You can select between a high or low brightness level for both devices. Moreover, you can select the strobe mode. In the strobe mode, a flash effect can be created which can serve as warning, marking or defence function. Both devices are equipped with a transport handle and a wrist strap attachment. A magnetic holder is positioned on the wrist strap attachment.

- The device PWLS 05-10 is operated with batteries. The batteries are not included in the scope of delivery.
- The device PWLS 06-10 is operated with an integrated battery.
- The battery is built-in and can be charged via a USB charging cable and a standard charger. The standard charger is not included in the scope of delivery.
- The battery status can be read on the battery indication (4 blue LEDs).
- The device PWLS 06-10 is equipped with a power bank function.

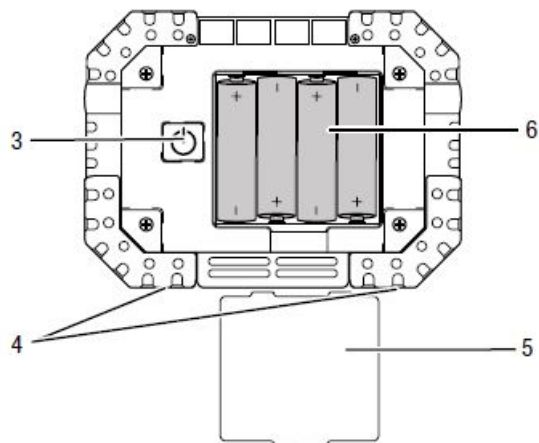
Device depiction

Front view PWLS 05-10 and PWLS 06-10



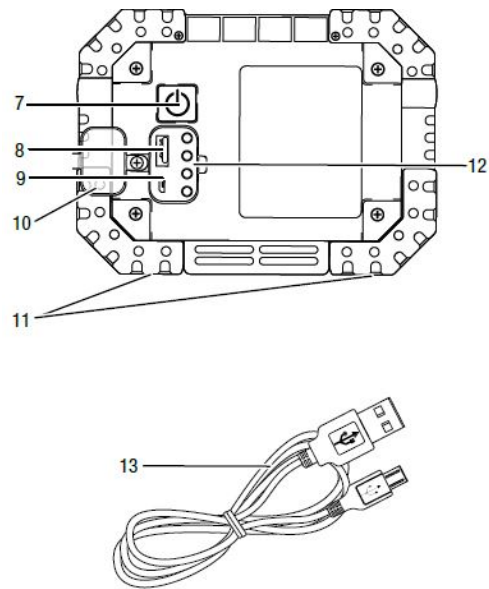
No.	Designation
1	Surface LED
2	Transport handle with wrist strap attachment

Rear view PWLS 05-10



No.	Designation
3	On/off switch
4	Magnetic holder
5	Battery compartment cover
6	Battery compartment

Rear view and USB charging cable PWLS 06-10



No.	Designation
7	On/off switch
8	USB connection/ output
9	USB connection/ input
10	Cover for USB connections
11	Magnetic holder
12	Battery indication (4 blue LEDs)
13	USB charging cable

Scope of delivery

PWLS 05-10

- 1 x LED work light
- 1 x Manual
- 4 x AA 1.5 V batteries

PWLS 06-10

- 1 x LED work light with integrated battery
- 1 x Manual
- 1 x USB charging cable

Technical data

PWLS 05-10

Parameter		Value
Nominal voltage		6 V
Surface LED	Power consumption	10 W
	Luminous flux	650 lm
	Burn time	high light-intensity = 3-4 h Low brightness level = 9-10 h
	Colour temperature	6000 K
Dimensions (length x width x height)		40 x 160 x 125 mm
Weight (packaging excluded)		370 g
Batteries		4 AA 1.5 V
Runtime of batteries		≥3 hours
Permitted ambient temperature (when stored)		-30 °C – +75 °C
Operating temperature		-20 °C – +55 °C
Type of protection		IP 44
Protection class		III

PWLS 06-10

Parameter		Value
Surface LED	Power consumption	10 W
	Luminous flux	800 lm
	Burn time	high light-intensity = 4-5 h Low brightness level = 8-9 h
	Colour temperature	6000 K
Dimensions (length x width x height)		40 x 160 x 125 mm
Weight (packaging excluded)		434 g
Length USB cable		0.8 m
Nominal voltage USB connection (output)		5 V
Nominal current consumption USB connection (output)		1 A
Battery (integrated)		
Battery type		Li-ion
Nominal voltage		3.7 V
Nominal capacity		4400 mAh
Rechargeable cells		2
Capacity		16.28 Wh
Charging time		6-7 h
Permitted ambient temperature (when stored)		-30 °C – +75 °C
Operating temperature		-20 °C – +55 °C
Type of protection		IP 44
Protection class		III

Transport and storage

Transport

Note

If you store or transport the device improperly, the device may be damaged.
Note the information regarding transport and storage of the device.

To make the device easier to transport, it is fitted with a transport handle.

Before transporting the device, observe the following:

- Switch the device off.
- Allow the device to cool down.
- Remove the batteries from the device PWLS 05-10.
- If necessary, pull the USB charging cable (13) out of the device PWLS 06-10.

The supplied batteries are subject to the requirements of dangerous goods legislation.

Observe the following when transporting or shipping batteries:

- The user may transport the batteries by road without any additional requirements.

Storage

Before storing the device, proceed as follows:

- Switch the device off.
- Pull the USB charging cable (13) out of the device PWLS 06-10, if necessary.
- Allow the device to cool down.
- Remove the batteries from the device PWLS 05-10.
- Clean the device as described in the Maintenance chapter.
- Do not store Li-ion batteries which are completely discharged. Storing discharged batteries can lead to a deep discharge and thus damage the battery.

When the device is not being used, observe the following storage conditions:

- dry and protected from frost and heat
- Ambient temperature below 75 °C
- protected from dust and direct sunlight

Start-up

Unpacking the device

- Take the device and the accessories out of the packaging.

Warning of electrical voltage

Electric shock due to insufficient insulation!

Check the device for damages and proper functioning before each use.

If you detect damages, do not use the device any longer.

Do not use the device when either the device or your hands are damp or wet!

- Check the contents for completeness and look for damages.

Warning

Risk of suffocation!

Do not leave the packaging lying around. Children may use it as a dangerous toy.

- Dispose of the packaging material according to the national regulations.

Note

When the batteries of the device are empty, replace them with new batteries.

Never recharge the batteries.

Inserting batteries for PWLS 05-10

You need 4 AA 1.5 V batteries for the device PWLS 05-10. Insert the batteries into the device prior to use. Please

proceed as follows:

1. Open the battery compartment (6) by removing the battery compartment cover (5).
2. Insert the batteries with correct polarity into the battery compartment (6) (+/-).
3. Close the battery compartment (6) by closing it with the battery compartment cover (5).

The device PWLS 05-10 is now ready to use.

Charging batteries for PWLS 06-10

Note

The battery can be damaged in case of improper charging.

Pull out the USB charging cable (13) from the external charger each time before switching the device on. Never charge the battery at ambient temperatures below -20 °C or above 55 °C.

Note

When charging the battery, observe the device's technical data in the chapter "Information".

Charge the battery of PWLS 06-10 completely before using the device. Use the USB charging cable (13) and a standard charger.

Proceed as follows to charge the battery:

1. Open the cover (10) of the USB connections at the back of the cordless work light.
2. If applicable, plug the charger into the mains socket.
3. Put the USB charging cable (13) into the USB connection/input (9) of the device PWLS 06-10 and into a charger.
 - When the battery status is very low, the charging time is 6- 7 hours.
 - When the battery is charged 25 %, the first LED of the battery indication (12) is illuminated in blue. When the battery is charged 50 %, the second LED of the battery indication (12) is illuminated in blue. When the battery is charged 75 %, the third LED of the battery indication (12) is illuminated in blue.
 - When the battery is charged 100 %, the fourth LED of the battery indication (12) is illuminated in blue.
4. When all LEDs of the battery indication (12) are illuminated and the battery is completely charged, you can remove the USB charging cable (13) from the charger and from the device PWLS 06-10.
5. Pull the charger out of the mains socket.
 - The LED work light and the charger may have become warm during charging. Let the LED work light and the charger cool down to room temperature.
 - The device PWLS 06-10 is now ready to use.

Note

Note that the battery status of the device PWLS 06-10 cannot be read while in operation. You can only read the battery status while charging.

Operation

Tips and notes on handling the LED work light

General information:

- Avoid looking directly into the light source.
- Use the devices only for a temporary illumination of indoor and outdoor areas, e.g. for construction sites.
- The devices PWLS 05-10 and PWLS 06-10 can be used as strobe.
- The LED work lights are particularly suited for illuminating larger areas.

Info

You can turn the handles of the LED work lights by 180° and set 6 positions.

Switching the device on and off

Switching the devices PWLS 05-10 and PWLS 06-10 on and off works identically.

1. Press the on/off switch (3/7) 1 x to switch the device on or off.
 - Once the device is switched on, the surface LED (1) is illuminated.
 - Once the device is switched off, the surface LED (1) is not illuminated.

Setting brightness level and strobe mode

Setting brightness level and strobe mode works identically for both devices PWLS 05-10 and PWLS 06-10

Check whether the batteries (standard or integrated) are completely charged. If necessary, replace the batteries or charge the integrated battery.

1. Set the lowest light intensity by pressing the on/off switch (3/7) 1 x.
2. Set the high brightness level by pressing the on/off switch (3/7) 3 x.
3. Set the strobe mode by pressing the on/off switch (3/7) 5 x.

Always proceed in the same order to set the desired light intensity or the strobe mode.

Note

By quickly pressing the on/off switch (3/7), you can switch between the brightness levels and the strobe mode.

Using the power bank

Note

Do not charge the battery of the device PWLS 06-10 if you have switched on the LEDs or the light at the same time. The device may be damaged. Always switch off the LEDs or the light before charging the battery.

If you like to use the device PWLS 06-10 as power bank, proceed as follows:

1. Put the USB charging cable (13) into the USB connection/output (8) of the device PWLS 06-10.
2. Then plug the USB charging cable into the USB input of the device that you would like to charge.
3. Charge your device until it has reached the desired charging status.
4. Disconnect the USB charging cable (13) from the device that has been charged, and from the device PWLS 06-10.

Note

The battery indication (4 blue LEDs) does not need to be observed when charging an external device. While charging, the battery indication (4 blue LEDs) only displays the battery status of the device PWLS 06-10.

Note

Note that the device PWLS 06-10 discharges when it is used as power bank.

Shutdown (PWLS 05–10)

Warning of electrical voltage

Never touch the batteries in the battery compartment (6) with wet or damp hands.

- Switch the device off.
- Remove the batteries from the battery compartment (6).
- If required, allow the device to cool down.
- Clean the device according to the Maintenance chapter.
- Store the device according to the Storage chapter.

Shutdown (PWLS 06–10)

Note

Never touch the USB connections of the device PWLS 06-10 with wet or damp hands.

1. Switch the device off.
2. Disconnect the USB charging cable (13).
3. If required, allow the device to cool down.
4. Clean the device according to the Maintenance chapter.
5. Store the device according to the Storage chapter.

Errors and faults

The device has been checked for proper functioning several times during production. If malfunctions occur nonetheless, check the device according to the following list.

Troubleshooting tasks which require the housing to be opened must only be carried out by an authorized specialist electrical company or by Trotec.

The battery of the PWLS 06-10 does not charge:

- Check if the USB charging cable is plugged in properly into both the charger and the device.
Check if the USB charging cable is properly connected to both the contacts of the charger and the device PWLS 06-10.
- Check USB charging cable, charger and device PWLS 06-10 for damages. Do not use the damaged device anymore if you detect any damages. Contact the Trotec customer service.
- Check the fuse (home).

Note

The integrated battery might possibly be defective. Contact the Trotec customer service.

The device is not lit:

- The batteries of the PWLS 05-10 may be empty. Replace them with new batteries.
- The battery power of the PWLS 06-10 may be too low. Charge the battery via the USB charging cable and a charger.
- On the battery indication (4 blue LEDs) of the PWLS 06-10 you can check whether the battery has been

completely charged.

- Check the USB charging cable of the PWLS 06-10 for damage. If the USB charging cable is damaged, stop using it. Contact the Trotec customer service.

Note

The LEDs are possibly damaged. Contact the Trotec customer service.

Note

Wait for at least 3 minutes after maintenance and repair work. Only then switch the device back on.

The device still does not operate correctly after these checks:

Please contact the customer service. If necessary, bring the device to an authorised specialist electrical company or to Trotec for repair.

Maintenance

Activities required before starting maintenance

Warning of electrical voltage

Do not touch the mains plug of the charger with wet or damp hands.

- Switch the device off.
- Hold onto the mains plug while pulling the power cable of the charger out of the mains socket.
- Disconnect the USB charging cable.
- Allow the device to cool down completely.

Warning of electrical voltage

Maintenance tasks which require the housing to be opened must only be carried out by authorised specialist companies or by Trotec.

Notes on maintenance

The device does not require maintenance.

Cleaning

The device should be cleaned before and after each use.

Warning of electrical voltage

There is a risk of a short-circuit due to liquids penetrating the housing!

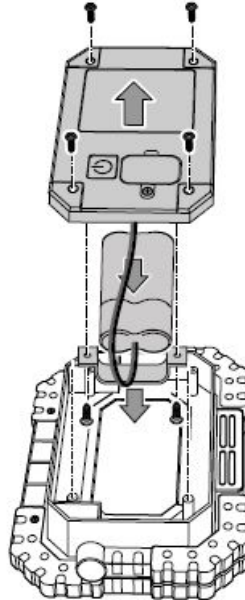
Do not immerse the device and the accessories in water. Make sure that no water or other liquids can enter the housing.

- Clean the device with a soft, damp and lint-free cloth. Make sure that no moisture enters the housing. Protect electrical components from moisture. Do not use any aggressive cleaning agents such as cleaning sprays, solvents, alcohol-based or abrasive cleaners to dampen the cloth.
- Dry the device with a soft, lint-free cloth.
- Keep the connecting terminals on the device and charger clean.
- When you are currently not charging the battery, leave the cover (10) on the USB connections. This way, no dirt can enter.

Disassembly

Remove the battery and dispose of it (PWLS 06-10)

1. Completely discharge the battery by letting the device run until the LEDs go out.
2. Switch the device off and let it cool down.
3. Open the battery housing by removing the four screws from the cover.




4. Version A (without plug connection): Hold onto the battery and disconnect the wiring by means of a wire cutter. Insulate the severed wire ends of the battery with tape to prevent a short circuit.
Version B (with plug connection): Hold onto the battery and disconnect the plug connections of the wiring.
5. Dispose of the battery and the device as described in the Disposal chapter.

Disposal

Always dispose of packing materials in an environmentally friendly manner and in accordance with the applicable local disposal regulations.



The  icon with the crossed-out waste bin on waste electrical or electronic equipment is taken from Directive 2012/19/EU. It states that this device must not be disposed of with the household waste at the end of its life. You will find collection points for free return of waste electrical and electronic equipment in your vicinity. The addresses can be obtained from your municipality or local administration. You can also find out about other return options that apply for many EU countries on the website <https://hub.trotec.com/?id=45090>. Otherwise, please contact an official recycling centre for electronic and electrical equipment authorised for your country.

The separate collection of waste electrical and electronic equipment aims to enable the re-use, recycling and other forms of recovery of waste equipment as well as to prevent negative effects for the environment and human health caused by the disposal of hazardous substances potentially contained in the equipment.

In the European Union, batteries and accumulators must not be treated as domestic waste, but must be disposed of professionally in accordance with Directive 2006/66/EC of the European Parliament and of the Council of 6 September 2006 on batteries and accumulators. Please dispose of batteries and accumulators according to the relevant legal requirements.


Only for United Kingdom

According to Waste Electrical and Electronic Equipment Regulations 2013 (SI 2013/3113) (as amended) and the Waste Batteries and Accumulators Regulations 2009 (SI 2009/890) (as amended), devices that are no longer usable must be collected separately and disposed of in an environmentally friendly manner.

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Documents / Resources

	<p>TROTEC PWLS 05-10 Led Work Lamp [pdf] User Manual PWLS 05-10 Led Work Lamp, PWLS 05-10, Led Work Lamp, PWLS 06-10, Work Lamp, Lamp</p>
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Manuals+.