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Cordless Sander

**LS401 LS402**

Tools for Every Home



**TEH**

## TECHNICAL SPECIFICATION

Model	LS401	LS402
Rated Voltage	DC 20V	DC 20V
Motor	Brushless	Brushless
No Load Speed	8000-12000r/min	8000-12000r/min
Sanding Paper Size	110*100MM	125MM
Compatible Battery	LB2.0Ah/LB4.0Ah	LB2.0Ah/LB4.0Ah

## COMPONENTS AND ACCESSORIES



## SAFETY INSTRUCTIONS

### WARNING

**Read all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or other serious injury. The term “power tools” in all of the warnings listed below refers to mains-operated (corded) power tool or battery operated (cordless) power tool.**

### WORK AREA

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

### ELECTRICAL SAFETY

- a) 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.
- b) 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.
- c) Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- d) Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tools. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increases the risk of electric shock.

- e) 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.
- f) 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.

### PERSONAL SAFETY

- a) Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
- b) Use safety equipment. Always wear eye protection. Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce the risk of personal injuries.
- c) Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.
- d) Remove any adjusting key or wrench before turning the power tool on. A wrench or a key to a rotating part of the power tool may result in personal injury.
- e) Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- f) Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
- g) 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.
- h) Maintain power tools. 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.

l) Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

n) Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking 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.

## USE AND HANDLING OF THE CORDLESS ELECTRICAL POWER TOOL

a) Charge a rechargeable battery unit using only the charger recommended by the manufacturer. Chargers are often designed for a particular type of rechargeable battery unit. There is the danger of fire if other types of rechargeable battery units are used.

b) Only the rechargeable battery units supplied are to be used with an electrical power tool. The use of other rechargeable battery units may lead to the danger of injury or fire.

c) When they are not being used, store rechargeable

battery units away from paperclips, coins, keys, nails, screws or other small metal objects that could cause the contacts to be bridged. Short-circuiting the contacts of a rechargeable battery unit may result in heat damage or fire.

d) Fluids may leak out of rechargeable battery units if they are misused. If this happens, avoid contact with the fluid. If contact occurs, flush the affected area with water. Seek additional medical help if any of the fluid gets into your eyes. Escaping battery fluid may cause skin irritation or burns.

## 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.

## SPECIAL SAFETY DIRECTIONS FOR BATTERY-OPERATED TOOLS

a) Ensure that the device is switched off before inserting the battery. Inserting a battery into a power tool that is switched on may result in accidents.

b) Recharge the batteries indoors only because the battery charger is designed for indoor use only.

c) To reduce the electric shock hazard, unplug the battery charger from the mains before cleaning the charger.

d) Do not subject the battery to strong sunlight over long periods and do not leave it on a heater. Heat damages the battery and there is a risk of explosion.

e) Allow a hot battery to cool before charging.

f) Do not open up the battery and avoid mechanical damage to the battery. Risk of short circuit and fumes may be emitted that irritate the respiratory tract. Ensure fresh air and seek medical assistance in the event of discomfort.

g) Do not use non-rechargeable batteries!

## CORRECT HANDLING OF THE BATTERY CHARGER

a) This device can be used by children aged 8 and over and by people with reduced physical, sensory or mental capacities or with a lack of experience or knowledge, if they are supervised or have been instructed regarding safe use of the device and understand the resulting risks. Children are not permitted to play with the device. Cleaning and user maintenance are not to be undertaken by children without supervision.

b) Children should be supervised to ensure that they do not play with the appliance.

c) To charge the battery, use only the charger supplied. Risk of fire and explosion. This ensures that the safety of the device is maintained.

d) Before each use, check the charger, cable and plug and have them repaired by qualified professionals and only with original parts. Do not use a defective charger and do not open it up yourself. This ensures that the safety of the device is maintained.

- e) Connect the charger only to a socket with an earth. Ensure that the mains voltage matches the specifications on the charger rating plate. Risk of electric shock.
  - f) Disconnect the charger from the mains before closing or opening connection to the battery / power tool / device.
  - g) Keep the charger clean and away from wet and rain. Do not use the charger outdoors. Dirt and the entry of water increase the risk of electric shock.
  - h) Operate the charger only with the appropriate original batteries. Charging other batteries may result in injuries and risk of fire.
  - i) Avoid mechanical damage to the charger. This can result in internal short circuits.
  - j) Do not operate the charger on a combustible surface (e.g. paper, textiles). Risk of fire due to heating during charging.
  - k) If the power cable for this equipment is damaged, it must be replaced by the manufacturer, a customer service agent of the same or a similarly qualified person in order to prevent hazards.
  - l) The battery of the appliance is not fully charged at the time of delivery. It therefore needs to be fully recharged before you use it for the first time. For the first recharge cycle we recommend that you charge the battery for about 1 hour. Slot the battery into the base and plug the battery charger into a mains outlet.
  - m) When the battery is fully charged, unplug the charger from the mains and from the appliance. Charging time is approx. 1 hour.
  - n) Do not charge the battery continuously since this may damage the battery cells.
- Note: Repeatedly charging small capacities may damage the battery cells. Recharge the battery only if the appliance is becoming slow.
- o) Do not use the charger to charge non-rechargeable batteries.

## RESIDUAL RISKS

Even if properly operating and handling this electric tool, some residual risks will remain. Due to its construction and build, this electric tool may present the following hazards:

- a) Cuts
- b) Ear damage if working without ear protection.
- c) Damage to your health caused by swinging your hands and arms when operating the appliance for longer periods of time or if the unit is not held or maintained properly.

## WARNING

**During operation, this electric tool generates an electromagnetic field which, under certain circumstances, may impair the functionality of active or passive medical implants. To reduce the risk of serious or lethal injuries, we recommend that persons with medical implants consult their doctor and the manufacturer of their medical implant before operating the machine.**

## SANDER SAFETY WARNINGS

1. Always use safety glasses or goggles. Ordinary eye or sun glasses are NOT safety glasses.
2. Hold the tool firmly.
3. Do not leave the tool running. Operate the tool only when hand-held.
4. This tool has not been waterproofed, so do not use water on the workpiece surface.
5. Ventilate your work area adequately when you perform sanding operations.
6. Some material contains chemicals which may be toxic. Take caution to prevent dust inhalation and skin contact. Follow material supplier safety data.
7. Use of this tool to sand some products, paints and wood could expose user to dust containing hazardous substances. Use appropriate respiratory protection.
8. Be sure that there are no cracks or breakage on the pad before use. Cracks or breakage may cause a personal injury.

## INSTALLATION INSTRUCTION

### WARNING ▲

**Always be sure that the tool is switched off and the battery cartridge is removed before carrying out any work on the tool.**

#### Installing abrasive disc

To install the abrasive disc, first remove all dirt or foreign matter from the pad. Then attach the abrasive disc to the pad. Be careful to align the holes in the abrasive disc with those in the pad.

#### Installing dust bag (optional accessory)

Install the dust bag on the tool with its mouth directing downwards.

#### Emptying dust bag

When the dust bag is about half full, switch off the tool, and remove the dust bag from the tool.

Then remove the dust nozzle from the dust bag after unlocking the dust nozzle by turning it slightly counterclockwise. Empty the dust bag by tapping it lightly.

After emptying the dust bag, install the dust nozzle on the dust bag. Turn the dust nozzle slightly clockwise to lock it in place. Then install the dust bag on the tool as described in "Installing dust bag".

#### Installing paper filter bag (Optional accessory)

Make sure that the logo on the cardboard lip and the logo on the dust box are on the same side, then install the paper filter bag by fitting the cardboard lip in the groove of each holding tab.

Make sure that the logo on the cardboard lip and the logo on the dust nozzle are on the same side, then install the dust nozzle on the dust box.

#### Removing dust box and paper filter bag

Remove the dust nozzle by pushing the two latches.

Remove the paper filter bag first by pinching the logo side of its cardboard lip, then by pulling the cardboard lip downwards to move it out of the holding tab of the dust box.

Removing and reinstalling the skirt

### WARNING ▲

**Do not use the tool without the skirt. Otherwise dust is scattered all over.**

You can choose one of 12 directions of the skirt in accordance with your purpose.

To remove the skirt, remove the screw and remove the skirt with slightly opening it for both sides.

To reinstall the skirt, install it with slightly opening it for both sides. And fasten the screw.

### WARNING ▲

**Do not set the skirt other than the designated angle. Otherwise the tool may be damaged.**

## OPERATION INSTRUCTION

### WARNING ▲

Never switch on the tool when it is in contact with the workpiece, it may cause an injury to operator.

### SANDING OPERATION

### WARNING ▲

1. Never run the tool without the abrasive disc. You may seriously damage the pad.
2. Never force the tool. Excessive pressure may decrease the sanding efficiency, damage the abrasive disc or shorten tool life.
3. Using the tool with the pad edge contacting the workpiece may damage the pad.

Hold the tool firmly. Turn the tool on and wait until it attains full speed. Then gently place the tool on the workpiece surface. Keep the pad flush with the workpiece and apply slight pressure on the tool.

### WARNING ▲

The sanding pad rotates clockwise during the loaded operation, but it may rotate counterclockwise during the no-load operation.

## POLISHING OPERATION (OPTIONAL)

### WARNING ▲

1. Use only a TEH genuine sponge pad, felt pad or wool pad (optional accessories).
2. Always operate the tool at low speed to prevent work surfaces from heating abnormally.
3. Never force the tool. Excessive pressure may decrease the polishing efficiency and cause motor overload, resulting in tool malfunction.

### 1. Applying wax

Use an optional sponge pad. Apply Wax to the sponge pad or work surface. Run the tool at low speed to smooth out wax.

### NOTE ▲

- a. First, wax a not conspicuous portion of the work surface to make sure that the tool will not scratch the surface or result in uneven waxing.
- b. The tool starts with high speed mode. Be careful when you start the tool. The wax may be spattered. It is recommended that you spread wax with the tool stopped before starting up the tool. Change the speed mode to low immediately after you start the tool.
- c. Always run the tool at low speed. Running it at high speed may cause the wax to spatter.

### 2. Removing wax

Use an optional felt pad. Run the tool at low speed to remove wax.

### 3. Polishing

Use an optional wool pad. Run the tool at low speed and apply the Wool pad gently to the work surface.

## MAINTENANCE

### WARNING

**1. Always be sure that the tool is switched off and the battery cartridge is removed before attempting to perform inspection or maintenance.**

**2. Never use gasoline, benzine, thinner, alcohol or the like. Discoloration, deformation or cracks may result.**

To maintain product SAFETY and RELIABILITY, repairs, carbon brush inspection and replacement, any other maintenance or adjustment should be performed by TEH Authorized Service Centers, always using TEH replacement parts.

## WARRANTY CARD

Dear customers, the warranty service for purchasing TEH products is as follows:

**Under normal use, within one year from the date of purchase. It is guaranteed that the damage is caused by the quality of the tool.**

**The following conditions occur during the warranty period, not covered by the warranty:**

- a. Any valid legal document (single ticket) certifying the date of purchase
- b. Any damage caused by natural wear and overload
- c. Any damage caused by the use of low-priced inferior accessories
- d. Any damage caused by improper carrying, transportation or storage
- e. Any product that has been opened, repaired, replaced, or modified by itself
- f. Any damage caused by misuse, beyond the scope of use of the tool, and failure to use and maintain in accordance with the instructions

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 ladies/gentlemen : \_\_\_\_\_ employer : \_\_\_\_\_

contact number : \_\_\_\_\_ fax number : \_\_\_\_\_

contact address : \_\_\_\_\_

warranty record : \_\_\_\_\_

post code : \_\_\_\_\_

### IMPORTANT NOTE

1. The invoice and warranty card must be presented at the time of warranty.
2. The fuselage number on the invoice is the same as the fuselage number on the warranty card.
3. Once this warranty card is issued, if it is lost, it will not be reissued. Please keep it properly.

**Note: The company reserves the right to amend the above provisions and has the final interpretation right in the case that the warranty service does not violate national laws.**