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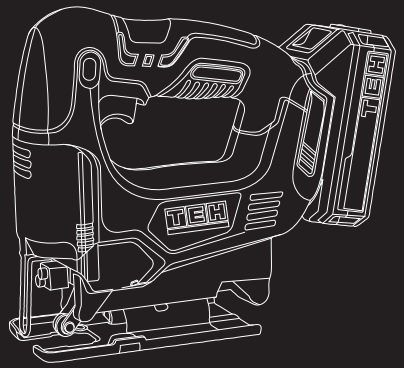
Cordless Jig Saw

LJS665 LJS680

Tools for Every Home



TEH

TECHNICAL SPECIFICATION

Model	LJS665	LJS680
Rated Voltage	DC 20V	DC 20V
Motor	Brush	Brushless
No-Load Speed	0-2900r/min	0-3300r/min
Max Cutting Depth In Wood	65mm	100mm
Max Cutting Depth In Metal	8mm	10mm
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.

CORDLESS JIG SAW SAFETY WARNINGS

1. Hold power tool by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring. Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
2. Use clamps or another practical way to secure and support the workpiece to a stable platform. Holding the work by hand or against your body leaves it unstable and may lead to loss of control.
3. Always use safety glasses or goggles. Ordinary eye or sun glasses are NOT safety glasses.
4. Avoid cutting nails. Inspect workpiece for any nails and remove them before operation.
5. Do not cut oversize workpiece.
6. Check for the proper clearance beyond the workpiece before cutting so that the blade will not strike the floor, workbench, etc.
7. Hold the tool firmly.

8. Make sure the blade is not contacting the workpiece before the switch is turned on.
9. Keep hands away from moving parts.
10. Do not leave the tool running. Operate the tool only when hand-held.
11. Always switch off and wait for the blade to come to a complete stop before removing the blade from the workpiece.
12. Do not touch the blade or the workpiece immediately after operation; they may be extremely hot and could burn your skin.
13. Do not operate the tool at no-load unnecessarily.
14. Some material contains chemicals which may be toxic. Take caution to prevent dust inhalation and skin contact. Follow material supplier safety data.
15. Always use the correct dust mask/respirator for the material and application you are working with,

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 OR REMOVING SAW BLADE

WARNING ⚠

1. Always clean out all chips or foreign matter adhering to the blade and/or blade holder. Failure to do so may cause insufficient tightening of the blade, resulting in a serious personal injury.

2. Do not touch the blade or the workpiece immediately after operation; they may be extremely hot and could bur your skin.

3. Tighten the saw blade securely. Failure to do so may cause a serious injury.

4. When you remove the saw blade, be careful not to hurt your fingers with the top of the blade or the tips of workpiece.

To install the blade, open the tool opener to the position.

Keeping that situation, insert the saw blade into the blade clamp as far as the two protrusions of the blade can not be seen.

Return the tool opener to its original position.

After installing, always make sure that the blade is securely held in place by trying to pull it out.

WARNING ⚠

Do not open the tool opener excessively, or it may cause tool damage.

To remove the blade, open the tool opener to the position shown in the figure. Pull the saw blade out toward the base.

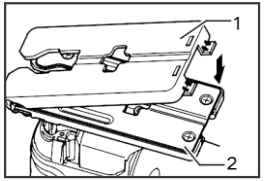
NOTE ⚠ **Occasionally lubricate the roller.**

Hex wrench storage (LJS665)

When not in use, store the hex wrench to keep it from being lost.

Cover plate

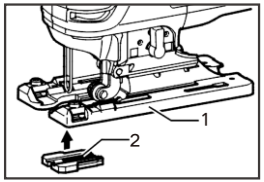
Use the cover plate when cutting decorative veneers, plastics, etc. It protects sensitive or delicate surfaces from damage. Fit it on the back of the tool base.



1. Cover plate 2. Base

Anti-splintering device

For splinter-free cuts, the anti-splintering device can be used. To install the anti splintering device, move the tool base all the way forward and fit it from the back of tool base. When you use the cover plate. install the anti-splintering device onto the cover plate.



1. Base 2. Anti-splintering device

WARNING ⚠

The anti-splintering device cannot be used when making bevel cuts.

Dust extraction

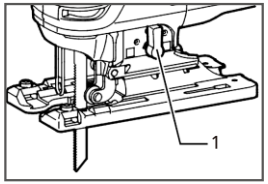
The dust nozzle (optional accessory) is recommended to perform clean cutting operations.
To attach the dust nozzle on the tool, insert the hook of dust nozzle into the hole in the base.
The dust nozzle can be installed on either left or right side of the base.
Then connect a vacuum cleaner to the dust nozzle.

OPERATION INSTRUCTION

SELECTING THE CUTTING ACTION

This tool can be operated with an orbital or a straight line (up and down) cutting action. The orbital cutting action thrusts the blade forward on the cutting stroke and greatly increases cutting speed.

To change the cutting action, just turn the cutting action changing lever to the desired cutting action position. Refer to the table to select the appropriate cutting action.



1. Cutting action changing lever

Position	Cutting action	Applications
0	Straight line cutting action	For cutting mild steel, stainless steel and plastics. For clean cuts in wood and plywood.
I	Small orbit cutting action	For cutting mild steel, aluminum and hard wood.
II	Medium orbit cutting action	For cutting wood and plywood. For fast cutting in aluminum and mild steel.
III	Large orbit cutting action	For fast cutting in wood and plywood.

SWITCH ACTION

WARNING ⚠

1. Before inserting the battery cartridge into the tool, always check to see that the switch trigger actuates properly and returns to the "OFF" position when released.

2. When not operating the tool, depress the lock off button from A side to lock the switch trigger in the OFF position.

To prevent the switch trigger from accidentally pulled, the lock-off button is provided.

To start the tool, depress the lock -off button and pull the switch trigger.

Tool speed is increased by increasing pressure on the switch trigger. Release the switch trigger to stop. After use, always press in the lock off button.

LIGHTING UP THE LAMPS(LJS680)

WARNING ⚠

Do not look in the light or see the source of light directly.
To turn on the lamp, pull the trigger. Release the trigger to turn it off.

NOTE ⚠

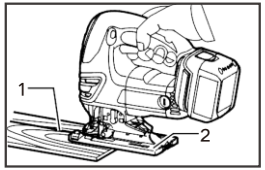
Use a dry cloth to wipe the dirt off the lens of lamp. Be careful not to scratch the lens of lamp, or it may lower the illumination.

OPERATION

WARNING ⚠

Always hold the base flush with the workpiece. Failure to do so may cause blade breakage, resulting in a serious injury.

Turn the tool on without the blade making any contact and wait until the blade attains full speed. Then rest the base flat on the workpiece and gently move the tool forward along the previously marked cutting line.



1. Cutting line 2. Base

NOTE ⚠

If the tool is operated continuously until the battery cartridge has discharged, allow the tool to rest for 15 minutes before proceeding with a fresh battery.

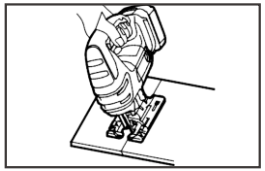
When cutting curves, advance the tool very slowly.

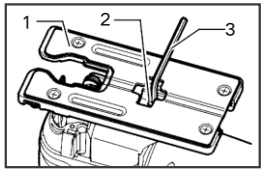
BEVEL CUTTING

With the base tilted, you can make bevel cuts at any angle between 0 ° and 45 ° (left or right).Loosen the bolt on the back of the base with the hex wrench. Move the base so that the bolt is positioned in the center of the bevel slot in the base.

Tilt the base until the desired bevel angle is obtained.

The V-notch of the gear housing indicates the bevel angle by graduations. Then tighten the bolt firmly to secure the base.

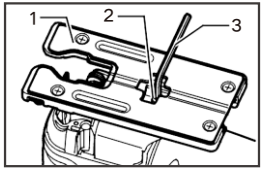




1. Base 2. Bolt 3. Hex wrench

FRONT FLUSH CUTS

Loosen the bolt on the back of the base with the hex wrench and slide the base all the way back. Then tighten the bolt to secure the base.



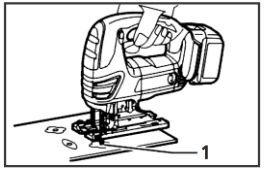
1. Base 2. Bolt 3. Hex wrench

CUTOUTS

Cutouts can be made with either of two methods A or B.

A) Boring a starting hole:

For internal cutouts without a lead-in cut from an edge, pre-drill a starting hole 12 mm or more in diameter. Insert the blade into this hole to start your cut.



1. Starting hole

B) Plunge cutting:

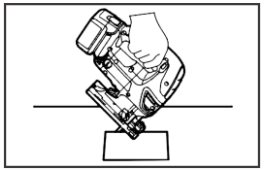
You need not bore a starting hole or make a lead-in cut if you carefully do as follows.

1.Tilt the tool up on the front edge of the base with the blade point positioned just above the workpiece surface.

2.Apply pressure to the tool so that the front edge of the base will not move when you switch on the tool and gently lower the back end of the tool slowly.

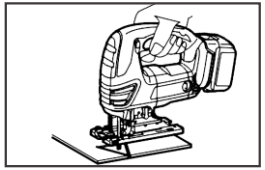
3.As the blade pierces the workpiece, slowly lower the base of the tool down onto the workpiece surface.

4.Complete the cut in the normal manner.



FINISHING EDGES

To trim edges or make dimensional adjustments, run the blade lightly along the cut edge



METAL CUTTING

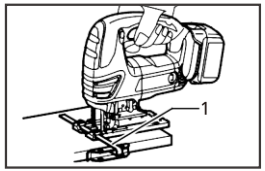
Always use a suitable coolant (cutting oil) when cutting metal. Failure to do so will cause significant blade wear.

The underside of the workpiece can be greased instead of using a coolant.

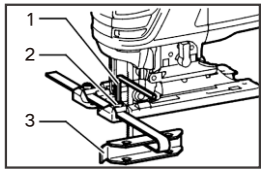
RIP FENCE SET (OPTIONAL ACCESSORY)

1.Straight cuts

When repeatedly cutting widths of 160 mm or less, use of the rip fence will assure fast, clean, straight cuts. To install, insert the rip fence into the rectangular hole on the side of the tool base with the fence guide facing down. Slide the rip fence to the desired cutting width position, then tighten the bolt to secure it.



1. Rip fence



1. Hex wrench 2. Bolt 3. Fence guide

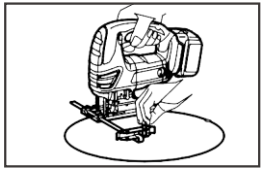
2.Circular cuts

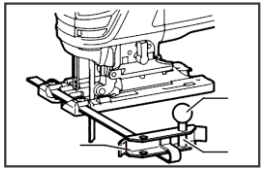
When cutting circles or arcs of 160 mm or less in radius, install the rip fence as follows.

Insert the rip fence into the rectangular hole on the side of the base with the fence guide facing up.

Insert the circular guide pin through either of the two holes on the fence guide. Screw the threaded knob onto the pin to secure the pin.

Now slide the rip fence to the desired cutting radius, and tighten the bolt to secure it in place. Then move the base all the way forward.





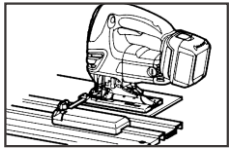
1. Fence guide
2. Threaded knob
3. Circular guide pin

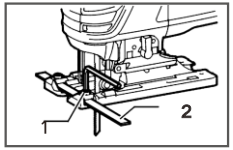
GUIDE RAIL ADAPTER SET (ACCESSORY)

When cutting parallel and uniform width or cutting straight, the use of the guide rail and the guide rail adapter will assure the production of fast and clean cuts. To install the guide rail adapter, insert the rule bar into the square hole of the base as far as it goes. Secure the bolt with the hex wrench securely.

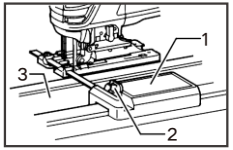
Install the guide rail adapter on the rail of the guide rail.

Insert the rule bar into the square hole of the guide rail adapter. Put the base to the side of the guide rail, and secure the bolt securely.





1. Bolt 2. Rule bar



1. Guide rail adapter
2. Screw 3. Guide rail

MAINTENANCE

WARNING ⚠

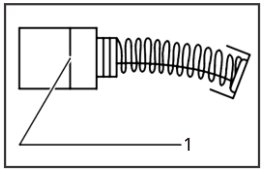
Always be sure that the tool is switched off and the battery cartridge is removed before attempting to perform inspection or maintenance.

REPLACING CARBON BRUSHES(LJS665)

Remove and check the carbon brushes regularly.

Replace when they wear down to the limit mark. Keep the carbon brushes clean and free to slip in the holders. Both carbon brushes should be replaced at the same time. Use only identical carbon brushes.

Use a screwdriver to remove the brush holder caps. Take out the worn carbon brushes, insert the new ones and secure the brush holder caps.



1. Limit mark

To maintain product SAFETY and RELIABILITY, repairs, 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

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.