

STK# 83240



40" BRIDGE SAW OWNER'S MANUAL



CAUTION!

Read and follow all safety
and operating instructions
before using this saw.



40" Bridge Saw

STK# 83240

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LIMITED WARRANTY

This product is covered by a (1) year warranty from the date of purchase. If the product is defective in workmanship or material and upon returning the product to distributor/dealer in its original packaging, QEP will repair and/or replace it free of charge. This warranty DOES NOT COVER normal wear, nor any damage as a result of accidents, misuse, abuse or negligence. QEP's obligations under this warranty shall be limited to the repair and/or replacement of the product. QEP shall not be liable for consequential damages. This warranty is void if the product or any of its components are modified, altered, or in any way changed, or if the product is used in a manner or with a blade that is not recommended by QEP.

The water pump is excluded from this warranty and is subject to its manufacturer's warranty.

This warranty is in lieu of all other warranties express or implied.

IMPORTANT: The warranty card must be filled out and received within 30 days of purchase to validate warranty.

GENERAL SAFETY INSTRUCTIONS

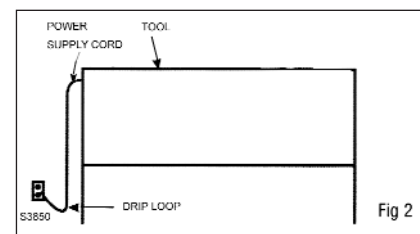
READ THIS OWNER'S MANUAL COMPLETELY AND MAKE SURE YOU UNDERSTAND ALL OF IT'S SAFETY GUIDELINES.

1. **KEEP GUARDS IN PLACE** and in working order.
2. **REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
3. **KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents.
4. **DON'T USE IN DANGEROUS ENVIRONMENT.** Don't use power tools in damp or wet locations, or expose them to rain. Keep work area well lighted.
5. **KEEP CHILDREN AWAY.** All visitors should remain at a safe distance from work area.
6. **MAKE WORKSHOP CHILD-PROOF** with padlocks, master switches or by removing starter keys.
7. **DON'T FORCE TOOL.** It will do the job better and safer at the rate for which it was designed.
8. **USE RIGHT TOOL.** Don't force tool or attachment to do a job for which it was not designed.
9. **WEAR PROPER APPAREL.** Do not wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry which may get caught in moving parts. No slip footwear is recommended. Wear protective hair covering to contain long hair.
10. **ALWAYS USE SAFETY GLASSES.** Also use face or dust mask if cutting operation is dusty. Everyday eyeglasses only have impact resistant lenses, they are NOT safety glasses.
11. **SECURE WORK.** Use clamps or a vise to hold work when practical. It's safer than using your hand and it frees both hands to operate tool.
12. **DON'T OVERREACH.** Keep proper footing and balance at all times.
13. **MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
14. **DISCONNECT TOOLS** before servicing; when changing accessories, such as blades, bits, cutters, and the like.
15. **REDUCE THE RISK OF UNINTENTIONAL STARTING.** Make sure switch is in off position before plugging in.
16. **USE RECOMMENDED ACCESSORIES.** Consult the owner's manual for recommended accessories. The use of improper accessories may cause risk of injury to persons.
17. **NEVER STAND ON TOOL.** Serious injury could occur if the tool is tipped or if the cutting tool is unintentionally contacted.
18. **CHECK DAMAGED PARTS.** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function - check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other parts that is damaged should be properly repaired or replaced.
19. **DIRECTION OF FEED.** Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.
20. **NEVER LEAVE TOOL RUNNING UNATTENDED. TURN POWER OFF.** Don't leave tool until it comes to a complete stop.
21. **POSITIONING OF TILE SAW** (See Illustration 1)

A. To avoid the possibility of the appliance plug or receptacle getting wet, position the tile saw to one side of a wall-mounted receptacle to prevent water from dripping onto the receptacle or plug. The user should arrange a "drip loop" is that part of the cord below the level of the receptacle, or connector if an extension cord is used, to prevent water traveling along the cord and coming in contact with the receptacle.

B. If the plug or receptacle does get wet, **DO NOT** unplug the cord. Disconnect the fuse or circuit breaker that supplies power to the tool. Then, unplug and examine for presence of water in the receptacle.

ILLUSTRATION 1



DRIP LOOP

WARNING

FOR YOUR OWN SAFETY READ INSTRUCTION MANUAL BEFORE OPERATING SAW.

- Wear eye protection.
- Use splash hood for every operation for which it can be used.
- Disconnect saw before servicing, when changing cutting wheels, and cleaning.
- Use tool only with smooth edge cutting wheels free of openings and grooves.
- Replace damaged cutting wheel before operating.
- Do not fill water bath above water fill line.

ELECTRICAL REQUIREMENTS

- **CONNECTING TOOL TO POWER SOURCE OUTLET.** This machine source must be grounded while in use to protect the operator from electrical shock.
- In the event of a malfunction or breakdown, grounding provides a path of least resistance for electrical current to reduce the risk of electrical shock. This tool is equipped with an electric cord having equipment grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.
- Do not modify the plug provided if it will not fit the outlet. Have the proper outlet installed by a qualified electrician.
- Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor with insulation having an outer surface that is green (with or without yellow stripes) is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment - grounding conductor to a live terminal.
- Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded.
- Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the tool's plug.
- Repair or replace damaged or worn cord immediately.
- To avoid the possibility of the appliance plug or receptacle getting wet, position tile saw to one side of a wall-mounted receptacle to prevent water from dripping onto the receptacle or plug. The user should arrange a "drip loop" in the cord connecting the saw to a receptacle. The "drip loop" is that part of the cord below the level of the receptacle, or the connector if an extension cord is used, to prevent water traveling along the cord and coming in contact with the receptacle.
- If the plug or receptacle does get wet, DON'T unplug the cord. Disconnect the fuse or circuit breaker that supplies power to the tool. Then unplug and examine for presence of water in the receptacle.
- Only UL Listed extension cords should be used with this product.
- Improper use of extension cords may cause inefficient operation of your tool, which can result in overheating. Be sure your extension cord is rated to allow sufficient current flow to the motor. For the proper gauge for your tool, see chart.
- Do not let your fingers touch the terminals of plug when installing or removing the plug to or from the outlet.
- If not properly grounded, this power tool can incur the potential hazard of electrical shock particularly when used in damp locations or in proximity to plumbing. If an electrical shock occurs, there is the potential of a secondary hazard such as your hands contacting the saw blade.

Extension cords

1. Use only extension cords that are intended for outdoor use. These extension cords are identified by a marking "Acceptable for use with outdoor appliances; store indoors while not in use." Use only extension cords having an electrical rating not less than the rating of the product. Do not use damaged extension cords. Examine extension cord before using and replace if damaged. Do not abuse extension cords and do not yank on any cord to disconnect. Keep cord away from heat and sharp edges. Always disconnect the extension cord from the receptacle before disconnecting the product from the extension cord.
2. **WARNING** – to reduce the risk of electrocution, keep all connections dry and off the ground. Do not touch plug with wet hands.
3. Ground Fault Circuit Interrupter (GFCI) protection should be provided on the circuit(s) or outlet(s) to be used for the tile saw. Receptacles are available having built-in GFCI protection and may be used for this measure of safety.

CAUTION: To avoid permanent motor damage you must use the correct extension cord. Never use more than one extension cord at a time.

EXTENSION CORD TABLE

Ampere Rating		Volts	Total length of cord in feet			
		120V	25ft.	50ft.	100ft.	150ft.
More Than	Not More Than	AWG				
0	6		18	16	16	14
6	10		18	16	14	12
10	12		16	16	14	12
12	16		14	12	Not Recommended	

GROUNDING INSTRUCTIONS

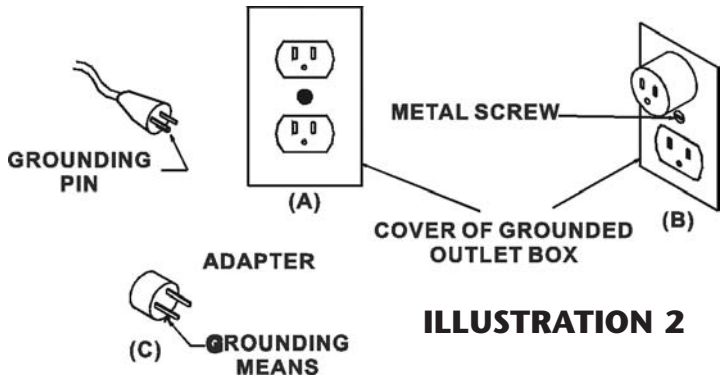
- A. All grounded, cord-connected tools: In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.

Do not modify the plug provided-if it will not fit the outlet, have the proper outlet installed by a qualified electrician.

Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.

Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded.

Repair or replace damaged or worn cord immediately.



- B. Grounded, cord-connected tools intended for use on a supply circuit having a nominal rating less than 150volts; This tool is intended for use on a circuit that has on outlet that looks like the one shown in figure A in illustration 2. A temporary adapter, which looks like the adapter shown in figure B in illustration 2, may be used to connect this plug to a 2-pole receptacle as shown in figure B in illustration 2 if a properly grounded outlet is not available. The temporary adapter should be used only until a properly grounded outlet can be installed by a qualified electrician. The green-colored rigid ear, lug, and the like, extending from the adapter must be connected to a permanent ground such as properly grounded outlet box.

DIAMOND BLADES

1. Use only the appropriate 10" wet continuous rim diamond blades for the material being cut.
2. Arbor size is 5/8". Please choose the right size to fit the inner flange.
3. Do not use a segmented blade, turbo blade, wood sawing blade, or any other kind of blade. Severe body injury or saw damage may occur.

DO's & DON'Ts FOR DIAMOND BLADES

DO's

1. Inspect blades daily for cracks or uneven wear. Discard cracked, chipped or bent blades!
2. Always use manufacturers recommendation for matching the right blade with the right material being cut.
3. Inspect the arbor shaft for uneven wear before mounting the blade.
4. Always use blades with the correct arbor size on a compatible arbor shaft.
5. Ensure the blade is mounted with the rotation arrow in the proper direction and is securely tightened with a wrench.
6. Always wear the proper safety equipment and eye protection at all times when operating the saw.
7. Periodically check the blade for cracks or bond fatigue.
8. Always have a continuous flow of water on both sides of the blade before cutting any material.

DON'Ts

1. Do not operate the saw without all safety guards in position.
1. Do not operate the saw with blades larger or smaller than 7".
2. Do not cut dry with blades marked "Use Wet".
3. Do not exceed maximum RPM recommended by the blade manufacturer.
4. Do not force the material into the blade. Let the blade cut at its own speed.
5. Do not cut material not recommended by the blade manufacturer.
6. Always wear proper safety equipment at all times when operating the saw. Wear goggles and dust mask at all times when operating saw.
7. Periodically check the blade for cracks or bond fatigue.
8. Always ensure a continuous flow of water on both sides of the blade before cutting any material.

FUNCTIONAL DESCRIPTION AND OPERATION



FIG. 3

Attach the saw to the stand. Make sure the stand is level.

A. STARTING AND STOPPING

1. Connect the unit to a power supply of the correct voltage and frequency (120V~, 60HZ).
2. To start the machine press the switch "ON" position.
3. To stop the machine, press the switch "OFF" position

WARNING: FOR YOUR OWN SAFETY, ALWAYS PUSH THE SWITCH TO THE OFF POSITION (DOWN) WHEN THE TOOL IS NOT IN USE. IN THE EVENT OF A POWER FAILURE, BLOWN FUSE OR TRIPPED CIRCUIT

BREAKER, TURN SWITCH TO THE OFF POSITION (DOWN) AND REMOVE THE KEY. THIS WILL PREVENT THE TOOL FROM STARTING UP AGAIN WHEN THE POWER COMES BACK ON.

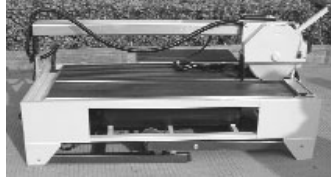


FIG. 4



FIG. 5

B. INSTALLATION Read the manual carefully before installation

1. Clean the working area. Take the machine out of the carton (FIG. 4).

2. Raise up the side without wheels by holding the handle, pull legs out. (FIG. 5)

3. Unscrew the stand lock knob, put down the stand. (FIG. 6-1, FIG. 6-2)

4. Raise the side with wheel by holding handle. (FIG. 6-3) Pull out the legs.

5. Reverse procedures 1 to 5 to fold the machine for packing.

6. ADJUSTING THE WHEELS

- A. For long distance moves, after folding the legs, pull out the upper wheel (FIG. 7-1, 2, 3)

- B. While the machine is in use, make sure the wheels are up to the locked position. (FIG. 8-1)

- C. For short distance moves, lock wheels to the down position lift the machine and pull by the handle. (FIG. 8-3 and FIG. 8-4)

7. One leg is adjustable to provide firm footing on uneven surfaces (FIG. 9).



FIG. 6-1



FIG. 7-1



FIG. 6-2



FIG. 7-2

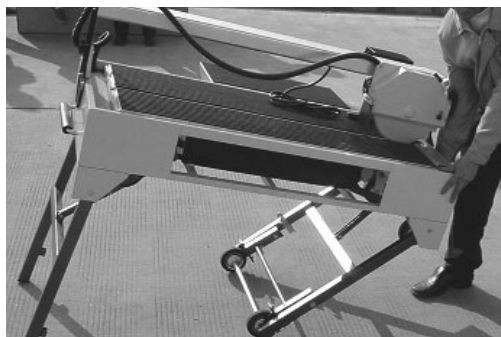


FIG. 6-3



FIG. 7-3

WARNING: SECURE THE MOTOR UNIT WITH THE LOCKING KNOB BEFORE MOVING THE SAW OR PERFORMING ANY MAINTENANCE!

8. Attach handle to motor unit. (FIG. 10)

9. Unlock the motor unit by loosening the knob (FIG. 11).

10. Pull the motor unit to the full front position, to extend the water/electric protective nose. Attach the nose housing as shown in (FIG. 12).

C FILLING THE WATER TRAY AND DRAINING

1. Fill the tray with water. Don't add chemicals or detergents to the water.

2. To drain water from the water pan, remove stopper. (FIG. 13)

D. MAKING A STRAIGHT CUT

1. Loosen the knob, align the mitre guide parallel to the fence (FIG. 14).

2. Adjust the width between the Mitre Cutting Guide and the blade by moving the inner fence, then position the tile against the fence and the Mitre Cutting Guide. Pull the motor unit smoothly, and do not force the blade (FIG. 15).

E. MAKE A MITRE CUT

1. Follow the same procedure for a straight cut and loosen the nut on the Mitre Cutting Guide, then adjust the Mitre Cutting Guide (FIG. 16).



FIG. 8-3



FIG. 8-1



FIG. 9

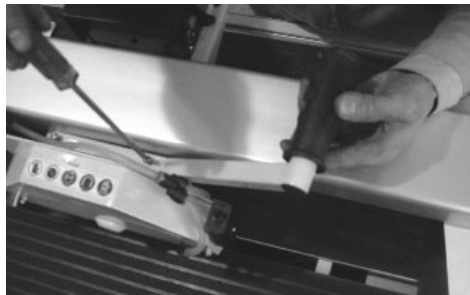


FIG. 10



FIG. 11

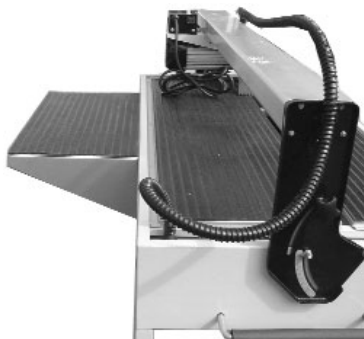


FIG. 12

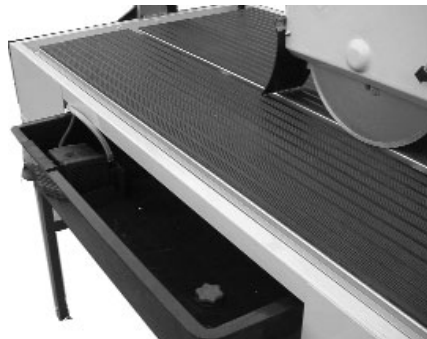


FIG. 13

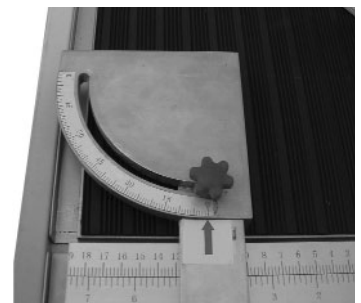


FIG. 14

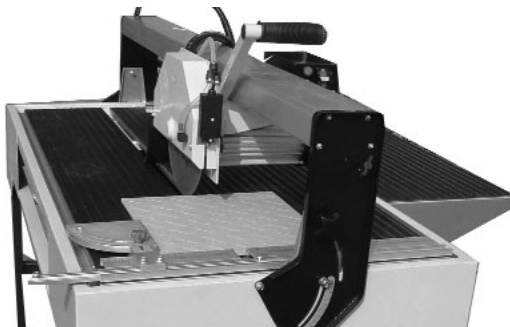


FIG. 15

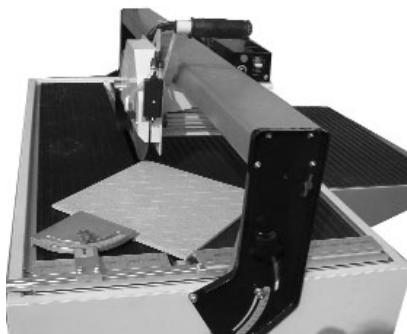


FIG. 16



FIG. 17



FIG. 18

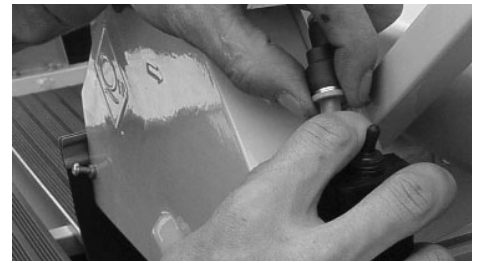


FIG. 19



FIG. 20



FIG. 21

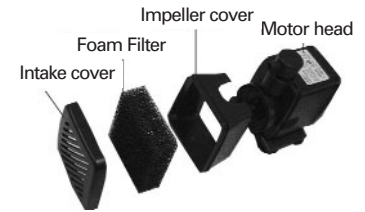


FIG. 22



FIG. 23-1



FIG. 23-2



FIG. 23-3

F. CUTTING WITH THE TABLE AT AN ANGLE

1. Loosen the two knob screws on the two rail stands (FIG. 17).
2. Tilt the rail with the blade to the desired angle (FIG. 18).
3. Tighten the two knob screws and make the cut.

G. CHANGING THE BLADE

WARNING! Disconnect the power supply before making adjustments or maintenance on the machine!

1. CHOICE OF THE SAW BLADE: Only use continuous rim diamond saw blades with diameter of 10". The arbor hole of the blade must be 5/8" (0.625").
2. REPLACING THE SAW BLADE
 - A. First, press the blue ring and pull out the water pipe (FIG. 19).
 - B. Then, remove the side cover by removing the two securing screws (FIG. 20).
 - C. Using the hexagonal wrench to hold the blade securing nut, and using the other spanner provided to hold the flat part of the shaft, loosen the nut (FIG. 21).
 - D. Ensure that the shaft and flanges are clean and re-fit the new blade.
 - E. Place the flange back, paying attention to the rotating direction.
 - F. Replace and tighten the lock nut.



FIG. 23-4

MAINTENANCE

WARNING! Disconnect the power supply before making adjustments or maintenance on the machine! Never use water or chemicals while cleaning electrical parts of the machine.

- A. Periodic maintenance of the saw will reduce unnecessary problems. Use soft cloth to clean the water and dust on the machine.
- B. Keep the ventilation slots of the saw clean to prevent overheating of the motor.
- C. Dry the saw as much as possible after using.

WARNING: Disconnect the POWER CORD from the main socket BEFORE doing any maintenance!

It is recommended that the pump be disassembled and cleaned at the end of each day. Dust and debris can dry and cause the pump to "freeze". If your pump will not operate, clean it thoroughly.

DO NOT CLEAN WHILE THE POWER IS CONNECTED!

1. Pump maintenance: (FIG. 22)

- A. Remove the Pump Intake cover; then remove the Foam Filter.
- B. Remove the Impeller cover, and remove the impeller.
- C. Flush the inside of the Pump, the Impeller, and the Foam Filter with CLEAN Water.
- D. Reassemble the pump, If the filter cannot be cleaned, or there is excess debris, use a new filter

2. Replace the filter foam

To replace the filter foam, remove the inlet cover, then take out of the filter foam and put into a new one.

3. Replace the pump

After replacing the filter foam, if the pump does not work, you must replace it with a new pump, only use the pump recommended by the manufacturer of the machine. The changing procedures is as follows:

- (1) Take out of the water tray, and there is a connecting box on the left inside the frame (FIG. 23-1).
- (2) Unscrew the nut on the connecting box and remove the cover (FIG. 23-2)
- (3) Disconnect the plug from the socket (FIG. 23-3), and loosen the nut connecting the pump with the pipe (FIG. 23-4).
- (4) Then replace the old pump with a new one, and reverse the procedures (1) to (3).

TROUBLE SHOOTING

Listed below is a number of possible causes and corresponding solutions in case the machine does not function as it should:

- A. The motor gets hot
 - 1. The ventilation slots in the motor are blocked with dirt
 - Clean the cool ventilation slots
 - 2. The motor is defective
 - Have your machine repaired by your supplier
- B. The machine does not work
 - 1. Check the electrical connection
 - 2. The switch is broken
 - Have your machine repaired by your supplier

ACCESSORIES

- 1. Fold-out stand with wheels
- 2. 10" continuous rim wet diamond blade (#6-1003CR)
- 3. High volume water pump (#60098)
- 4. Laser cutting guide
- 5. Side extension table
- 6. Angle cutting guide
- 7. Handles

Technical Specifications

Main voltage (Volt):	120 V
Main current (A):	15 A
Motor capacity:	2.4 HP
Mains frequency (Hz):	60 Hz
Insulation class:	B
No load speed (rpm):	3550 rpm
Max. Cutting Dept. at 90°:	2"
Max. Cutting Dept. at 45°:	4/5"
Rips Tile Size:	40"
Diagonal Tile Size:	28"
Diamond blade size:	10" dia. X 5/8" arbor
Tilting range:	0~45°
G. Weight:	163.1 LBS

PARTS LIST (same as 83200)

DESCRIPTION	PART NO.
Nut	83200-08
Switch	83200-03B
Motor Trolley Guide	83200-11
Plastic Tube Holder	83200-27
Pad	83200-16

PARTS LIST

DESCRIPTION	PART NO.
Motor	83240-1
Motor Fixture	83240-2
Water proof for the motor	83240-3
Inside Flange	83240-4
Diamond Blade	83240-5
Outside Flange	83240-6
Nut	83240-7
Water Spray Guard	83240-8
Safety Guard	83240-9
Laser System	83240-10
Handle	83240-11
Connecting House	83240-12A
Circuit Breaker	83240-12B
Switch	83240-12C
Indicator Light	83240-12D
Capacitor	83240-12E
Power Socket	83240-12F
Cable Lock	83240-13
Power Cable	83240-14
Motor Trolley Guide	83240-15
Knob I	83240-16
Plastic Tube Holder	83240-17
Rail Stand (Left)	83240-18
Slide Rail	83240-19
Pad	83240-20
Rail Stand Fixture	83240-21
Rail Stand (Right)	83240-22
Extention Table	83240-23
Main Frame	83240-24
Front Spacer	83240-25
Back Spacer	83240-26
Angle Cutting Guide	83240-27
Measuring Guide	83240-28
Table	83240-29
Stand I	83240-30
Stand II	83240-31
Water Tray	83240-32
Motor Shaft Wrench	83240-33
Hexagonal Blade Wrench	83240-34
Water Pump	83240-35
Cable for the pump	83240-36
Cooling Water Pipe	83240-37
Protection Plastic Tube	83240-38

EXPLODED PARTS

