

STK# 83200



24" BRIDGE SAW **OWNER'S MANUAL**

SCIE LINÉAIRE DE 61CM **MANUEL D'UTILISATION**

SIERRA ELÉCTRICA TIPO PUENTE DE 61CM **MANUAL DE OPERACIÓN**



CAUTION!

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

ATTENTION!

Lire et suivre toutes les directives de sécurité et d'opération avant d'utiliser cette scie.

¡AVISO!

Lea y siga todas las instrucciones de funcionamiento y seguridad antes de usar esta sierra.

E200561



9JA8



24" Bridge Saw

Scie Linéaire de 61cm

Sierra Eléctrica Tipo Puente de 61cm

STK# 83200

TABLE OF CONTENTS

General Safety Rules.....	3-4
Specific Safety Rules.....	4-5
Functional Description and Operation	6-8
Maintenance	8
Parts List	9
Specification	9
Exploded Parts	9

TABLE DES MATIÈRES

Règles Générales sur la Sécurité	10-11
Règles Spécifiques de Sécurité.....	11-13
Description Fonctionnelle et Utilisation	13-15
Entretien	15
Listes des Pièces	16
Spécifications	16
Pièces Éclatées.....	16

TABLA DE CONTENIDO

Reglas Generales de Seguridad	17-18
Reglas Específicas de Seguridad	18-20
Descripción Funcional y Funcionamiento	20-22
Mantenimiento	22
Lista de Respuestos	23
Especificaciones.....	23
Despiezado	23

LIMITED WARRANTY

Refer to warranty card.

GARANTIE LIMITÉE

Faire référence à la carte de garantie.

GARANTIA LIMITADA

Referirse a la tarjeta de garantía.

GENERAL SAFETY RULES

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

1. **READ** and become familiar with this owner's manual. Learn the limitations of this bridge saw and become aware of its possible hazards.
2. **KEEP SAFETY GUARDS IN PLACE** and in working order.
3. **REMOVE ADJUSTING WRENCHES.** Form a habit of checking to see that adjusting wrenches are removed from the bridge saw before turning it on.
4. **KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents.
5. **DO NOT USE IN A DANGEROUS ENVIRONMENT.** Do not use the bridge saw in damp or wet locations, or expose it to rain. Keep work area well lit.
6. **KEEP CHILDREN AWAY.** All visitors should keep a safe distance from the work area.
7. **MAKE WORKSHOP CHILD PROOF** with padlocks, master switches or by removing starter keys.
8. **DO NOT FORCE THE SAW.** It will perform better and more safely at the rate for which it is designed.
9. **USE THE SAW PROPERLY.** Do not force the bridge saw to do a job that it is not designed for.
10. **USE THE PROPER EXTENSION CORD.** Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Table 1 shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.

TABLE 1

Ampere Rating	Volts	Total length of cord in feet			
		25ft.	50ft.	100ft.	150ft.
0-6	120V~	50ft.	100ft.	200ft.	300ft.
		AWG			
6-10		18	16	18	14
		16	14	16	12

11. **WEAR PROPER APPAREL.** Do not wear loose clothing, neckties, rings, bracelets, or other jewelry which may get caught in moving parts. Nonslip footwear is recommended. Wear a protective hair covering to contain long hair.
12. **ALWAYS USE SAFETY GLASSES,** dust mask and ear protection when operating the bridge saw, to comply with ANSI-Z87.1.
13. **DO NOT OVERREACH.** Keep proper footing and balance at all times.
14. **MAINTAIN SAW WITH CARE.** For the best and safest performance keep the bridge saw clean. Follow maintenance instructions.
15. **UNPLUG SAW** before changing any accessories, such as blades.
16. **REDUCE THE RISK OF UNINTENTIONAL STARTING.** Make sure switch is in the "off" position before plugging it in.
17. **USE RECOMMENDED ACCESSORIES.** Consult the owner's manual for recommended accessories. The use of improper accessories may cause risk of injury.
18. **NEVER STAND ON THE SAW.** Serious injury could occur if the saw is tipped or if the cutting blade is unintentionally contacted.
19. **CHECK DAMAGED PARTS.** Before further use of the saw, the safety guard or any 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. The safety guard or any other part that is damaged should be properly repaired or replaced.
20. **DIRECTION OF FEED.** Pull the motor trolley towards the material to be cut.
21. **NEVER LEAVE THE SAW RUNNING UNATTENDED. TURN POWER OFF.** Do not leave the saw until it comes to a complete stop.

22. **DO NOT** use the bridge saw in the presence of flammable liquids or gases.
23. **ALWAYS** remove the power cord plug from the electric outlet when making adjustments, changing parts, cleaning or working on the saw.
24. **DO NOT** operate the saw if you are under the influence of any drugs, alcohol or medication that could affect your ability to use the saw properly.
25. **WARNING.** Dust generated from certain materials can be hazardous to your health. Always operate the saw in well ventilated areas and use a proper dust mask. Use dust collection systems wherever possible.
26. **NEVER** touch the pins of the plug while inserting it into the electrical socket.
27. **NEVER** use the power cord to pull the plug out of the electrical socket.
28. **ALWAYS** keep the power cord away from sharp objects or any other obstacles that can cause damage.

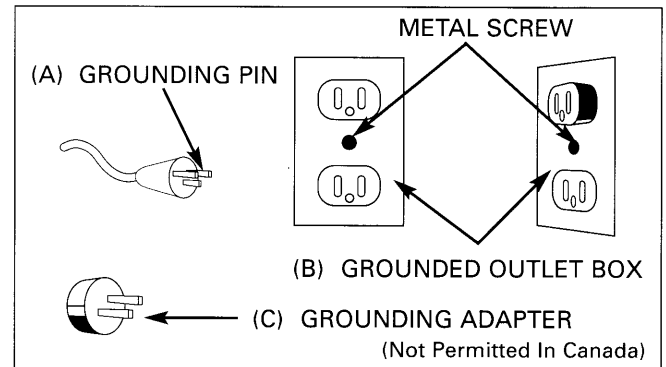
SPECIFIC SAFETY RULES

Read all of the instructions before operating this bridge saw, and keep them in a safe place for future reference.

A. GROUND INSTRUCTION

1. 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 saw is equipped with an electric cord that has a 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.
2. Do not modify the plug provided. If it will not fit the outlet, have a proper outlet installed by a qualified electrician.
3. Improper connection of the 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 grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the grounding conductor to a live terminal.
4. Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the saw is properly grounded.
5. Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the saw plug. Repair or replace damaged or worn cords immediately.
6. THIS SAW IS INTENDED FOR USE ON A CIRCUIT that has an outlet that looks like the one illustrated in Sketch A of Figure 1. The saw has a grounding plug that looks like the plug illustrated in Sketch A of Figure 1. A temporary adapter, which looks like the adapter illustrated in Sketches B and C, may be used to connect this plug to a 2-pole receptacle as shown in Sketch B 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 a properly-grounded outlet box.

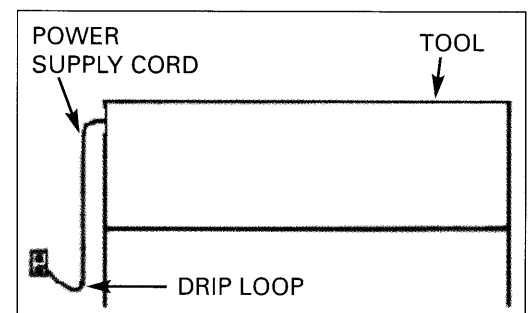
FIGURE 1



B. POSITION OF BRIDGE SAW

1. To avoid the possibility of the appliance plug or receptacle getting wet, position the 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.
2. If the plug or receptacle does get wet, DON'T unplug the cord. Disconnect the fuse or circuit breaker that supplies power to the saw, then unplug and examine for the presence of water in the receptacle.

FIGURE 2



C. 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 recommended extension cords. 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 the 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 saw. Receptacles are available having built-in GFCI protection and may be used for this measure of safety.

D. FOR YOUR OWN SAFETY READ THE OWNER'S MANUAL BEFORE OPERATING THE SAW

- Wear eye protection.
- Keep blade safety guard in place.
- Disconnect the saw before servicing, when changing diamond blades and cleaning.
- Make certain that you use the appropriate blade for the material that you are cutting.
- Replace damaged blades before operating.
- Do not fill water tray above the max water filling line.

E. SPECIFIC OPERATION GUIDE

1. Ensure that the directional arrow marked on the blade corresponds with the rotational direction of the motor.
2. With the saw disconnected from the power supply, rotate the blade by hand to ensure it is free from obstruction.
3. Always keep the blade-securing arbor and collars clean.
4. Ensure that the blade-securing bolt is securely tightened.
5. Never try to cut freehand. Always ensure that the tile to be cut is pressed firmly against the rip fence.
6. Ensure that the workpiece that will be cut off has sufficient room to move sideways. Failure to do so may result in the off-cut binding against the blade.
7. Never cut more than one tile at a time.
8. Never cut pieces too small that are not held securely against the rip fence, and provide enough space for the hand to be a safe distance from the blade.
9. Ensure that the table and surrounding area are clear with the exception of the tile to be cut.
10. Before cutting a tile piece, let the saw blade run freely for a few seconds. If it makes an unfamiliar sound or vibrates excessively, switch it off immediately and disconnect it from the power supply.
11. Let the blade reach full speed before commencing the cut.
12. Let the blade come to a complete stop before removing any jammed material from around the blade area.
13. Never allow the blade to run dry. Failure to keep the water tray at the recommended level will result in possible over-heating of the diamond blade.

SPECIAL SAFETY INSTRUCTIONS BEFORE USING THE 83200 BRIDGE SAW

Check the following areas;

1. Does the voltage of the motor correspond to the main voltage?
2. A grounded main connection (wall socket) needs to be used.
3. Are the main lead and plug in good condition without any loose ends or damage?
 - A. Avoid using long extension cords.
 - B. Always place the saw on a flat surface to prevent it from tipping over.

While using the saw;

1. Never use cracked diamond blades, replace them.
2. Be sure that the switch is in the OFF "OFF" position before connecting the saw to the main voltage.
3. Always keep away the main lead from moving parts of the saw.
4. Do not apply side-pressure to the diamond blade. It can break the blade and cause harm.
5. Remove the plug out of the wall socket before you make any repairs or replace blade.

IMMEDIATELY SWITCH OFF THE SAW IN CASE OF;

1. Excessive sparking of the brushes.
2. Malfunction of the main plug, socket or damaged cables.
3. Broken switch.
4. Smoke or smell caused by scorched insulation.

FUNCTIONAL DESCRIPTION AND OPERATION

STARTING AND STOPPING

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

WARNING: For your own safety, always position the switch to the "OFF" position when the saw is not in use. In the event of a power failure, blown fuse or tripped circuit breaker, press switch to the "OFF" position. This will prevent the tool from starting up again when the power comes back on.

ASSEMBLY

Read the manual carefully before assembly.

1. Clean the working area.
2. Remove saw from carton, you will find it assembled.
3. Lay the saw on its side on the ground (Fig 4).
4. Pull out the stand legs, and the support brackets (Fig 5-1). Attach the brackets to the legs with the supplied nuts (Fig 5-2).
5. Stand the saw upright, then put the steel net between the stand legs (Fig 6).
6. Adjust the balance screw on right leg (Fig 7).

Figure 3

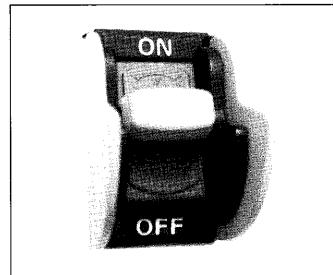


Figure 4

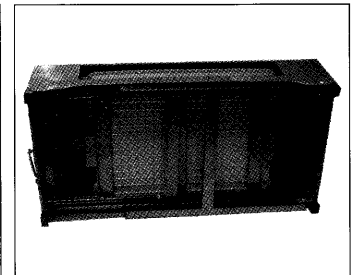


Figure 5-1

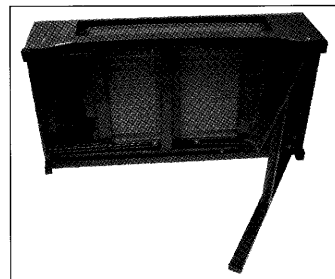


Figure 5-2

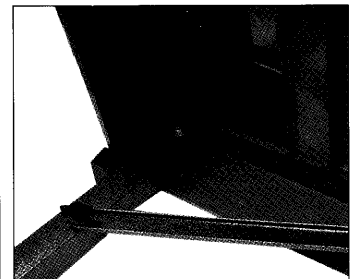


Figure 6

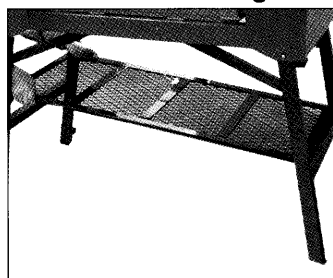
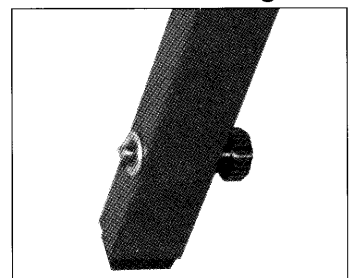


Figure 7



- To mount the handle position the handle on the trolley and secure it using the 2 screws (Fig 8).
- The motor trolley is secured during shipment, please loosen knob before using (Fig 9).

Figure 8

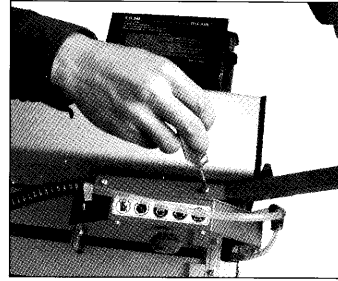
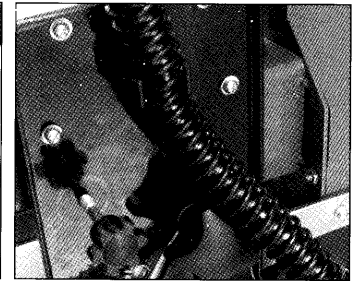


Figure 9



FILLING THE WATER TRAY AND DRAINING

- Fill the tray with water. Do not add chemicals or detergents to the water.
- Remove the plug from the bottom of the tray, the water will flow out or you can remove the tray and pour the water out (Fig 10).

Figure 10

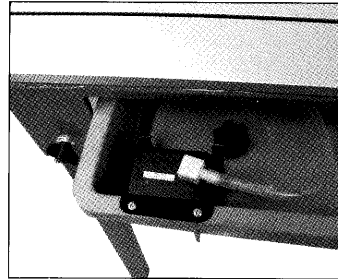
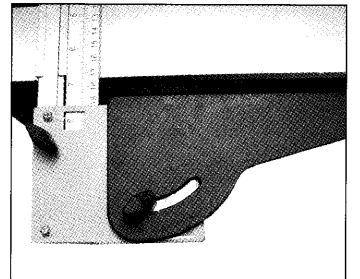


Figure 11



MAKING A STRAIGHT CUT

- Push the motor trolley away from the operator until it reaches the stroke limit.
- Position the tile on the cutting table.
- Properly set the measuring guide and squaring tool (Fig 11).
- Adjust the guides as needed so that the tile rests against the measuring guide and squaring tool (Fig 12).
- Pull the motor trolley slowly towards the material to be cut (Fig 13).
- When you have completed the cut push motor trolley/blade away and remove the cut pieces, and any debris on cutting surfaces.

Figure 12

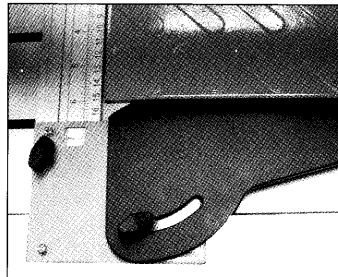
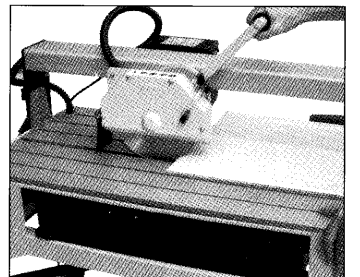


Figure 13



MAKING A DIAGONAL CUT

- Follow the same procedure for a straight cut.
- Loosen the nut on the squaring tool, and position the tile diagonally (Fig 13).
- Lock the nut and perform the cut following procedure for a straight cut.

ANGLED OR 45 DEGREE CUTS

- Loosen the two knobs at either end of the bridge (Fig 14).
- Tilt bridge to the desired angle up to 45 degrees (Fig 15). Tighten knobs at either end of bridge, and proceed with cutting tile following same procedure as listed in the "straight cut" section.

Figure 14

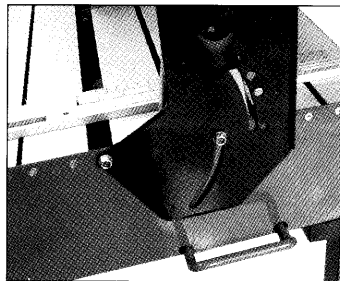
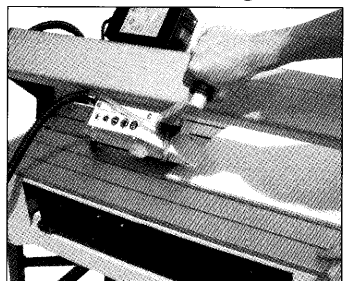


Figure 15



CHANGING THE BLADE

WARNING! Disconnect the power supply before making adjustments, maintenance, cleaning or replacing the blade!

- CHOICE OF THE SAW BLADE. Only use 8" continuous rim or turbo blades with a 5/8" arbor.
- REPLACING THE SAW BLADE
 - First, press the blue rings on the water hose connector and remove the water tubes (Fig 16).
 - Remove the blade guard by removing the 4 screws (Fig 17).

Figure 16

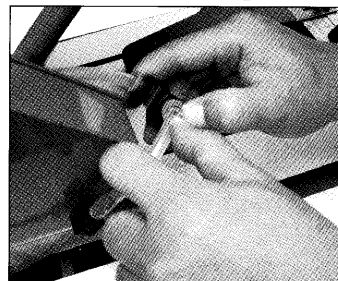
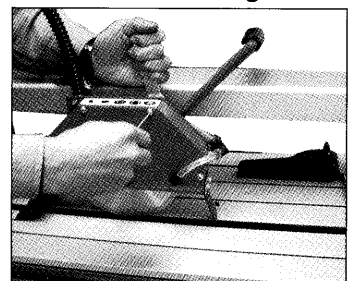
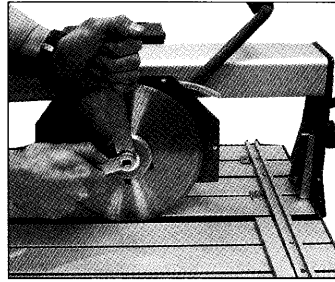


Figure 17



- C. Use the hexagonal wrench to hold the blade nut and use the spanner wrench provided to hold the shaft. Loosen the nut turning clockwise as in (Fig 18).
- D. Ensure that the shaft and flanges are clean. Mount blade back on to shaft ensuring that the directional arrow on the blade is rotating towards the material to be cut.
- E. Insert flange and lock nut. Tighten counterclockwise.

Figure 18



MAINTENANCE

CAUTION! While doing maintenance on the saw, always pull the plug out of the electrical socket.

1. Never use water or any other chemicals to clean the electrical parts of the machine.
2. Use a soft cloth to clean and dust the machine.
3. Keep the ventilation slots of the motor clean to prevent overheating of the motor.
4. Dry the saw.
 - A. Periodic maintenance of the saw will prevent unnecessary problems.
 - B. Keep the ventilation slots of the saw clean to prevent overheating of the motor.
 - C. Dry the saw as much as possible after each use.

TROUBLESHOOTING

1. Overheating of saw;
 - A. Turn bridge saw off and let it rest until motor is cool to the touch.
 - B. Check and clean the ventilation slots, removing blockage and dirt.
2. The saw does not start;
 - A. Check that power cord is properly plugged in.
 - B. No power from outlet.
 - C. Switch is damaged.

ACCESSORIES INCLUDED WITH SAW

1. Hexagonal Blade Wrench
2. Motor Shaft Holding Wrench
3. Steel Shelf
4. Water Pump
5. 8" Continuous Rim Diamond Blade

PARTS LIST

No.	DESCRIPTION
60098	Water Pump
83200-02	Motor
83200-03A	Connecting House
83200-03B	Switch
83200-03C	Circuit Breaker
83200-03D	Capacitor
83200-03E	Power Cable and Plug
83200-04	Motor Fixture
83200-05	Inside Flange
6-8003CR	8" Diamond Blade
83200-07	Outside Flange
83200-08	Nut
83200-09	Safety Guard
83200-10	Water Spray Guard
83200-11	Motor Trolley Guide
83200-12	Slide Rail
83200-13	Handle
83200-14	Rail Stand

No.	DESCRIPTION
83200-15	Rail Stand Fixture (2)
83200-16	Pad (2)
83200-17	Main Frame
83200-18	Table
83200-19	Angle Cutting Guide
83200-20	Measuring Guide
83200-21	Front Spacer
83200-22	Back Spacer
83200-23	Stand
83200-24	Stand
83200-25	Butterfly Knob (4)
83200-26	Support Bracket (4)
83200-27	Plastic Tube Holder
83200-28	Steel Rack
83200-29	Protection Plastic Tube
83200-30	Hexagonal Blade Wrench
83200-31	Motor Shaft Wrench
83200-32	Water Tray
83200-33	Knob (2)

Specifications

**Motor: 120V-60Hz
1½HP**

Amps: 9.2

RPM: 3,550

Blade: 8"

Arbor: 5/8"

Max. Cut at 90°: 1½"

Max. Cut at 45°: 3/4"

Dimensions:

35¼"L x 20½"W x 20¾"H

Net Weight: 99 lbs

Cuts Tile: 24" Square, 18" Diagonal

EXPLODED PARTS

