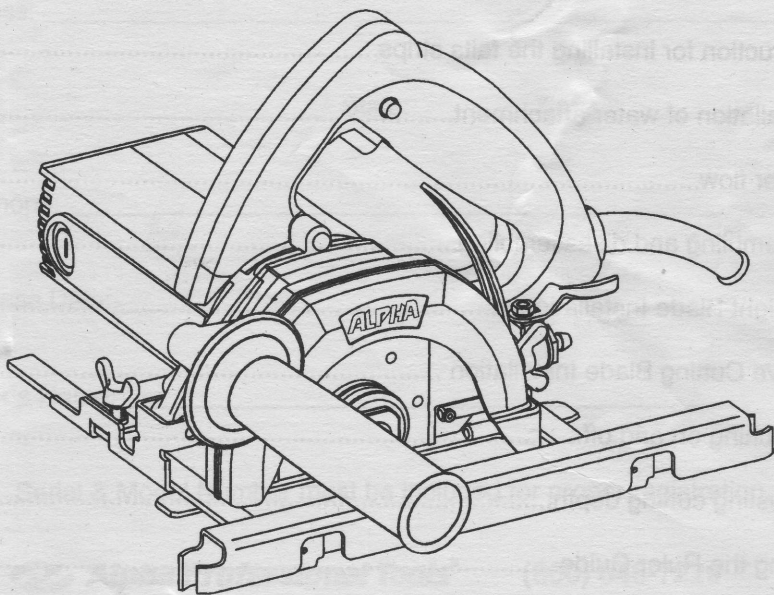


Alpha[®] Wet Stone Cutter Instruction Manual



Part No: AWS-125 / AWS-225

 **Alpha Professional Tools[®]**

250 Braen Avenue, Wyckoff, NJ 07481 • 800-648-7229 • Fax: 800-286-0114
www.Alpha-Tools.com

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SAFETY INSTRUCTIONS:

Read all these instructions before attempting to operate this product. Save these instructions in a safe place for future reference.

Warning: When using electric tools, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injury, including the following.

For Safe Operation:

1. Keep work area clean

Cluttered areas and benches invite injuries.

2. Consider work area environment

Don't expose power tools to rain. Don't use power tools in damp or wet locations without GFCI protection. Keep work areas well lit. Do not use the tool in presence of flammable liquids or gases.

3. Guard against electric shock

Prevent body contact with grounded surfaces. For example: pipes, radiators, ranges, and refrigerator enclosures; use grounded outlets.

4. Keep children and visitors away

Do not let visitors contact tool or extension cord. All visitors should be kept away from work area. Keep out of reach of children.

5. Tool Storage

When not in use, tools should be stored in a secure dry location. A locked storage area or high shelf out of children's reach is ideal.

6. Don't force the tool

It will do the job better and safer at the rate for which it was intended.

7. Use the right tool

Don't force a small tool or attachment to do the job of a heavy-duty tool. Don't use the tool for purposes it is not designed for – (for example – don't use stone cutter for cutting tree limbs or logs.)

8. Dress properly

Do not wear loose clothing or jewelry. Items such as these can be caught in moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors. Wear protective hair covering to contain long hair.

9. Use safety glasses

Also use face or dust mask if cutting operation is dusty.

10. Don't abuse the electric cord

Never carry the tool by the electrical cord or pull it to disconnect from receptacle. Keep the electrical cord from heat, oil and sharp edges.

11. Secure work

Use clamps or a vise to hold work. It's safer than using your hand and it allows 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 & clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect tool electrical cord periodically and if damaged, have it repaired by authorized service facility. Inspect extension cords periodically and replace if damaged. Keep handles dry, clean and free from oil and grease.

14. Disconnect tools

Disconnect the tool from the power supply when not in use, before servicing, and when changing accessories, such as blades, bits, cutters.

15. Remove adjusting keys and wrenches

Form the habit of checking to see that keys and adjusting wrenches are removed from the tool before turning it on.

16. Avoid unintentional starting

Don't carry a plugged-in tool with finger on switch. Be sure switch is off when plugging in.

17. Outdoor use extension cords

When tool is used outdoors, use only extension cords intended for use outdoors and so marked.

18. Stay alert

Watch what you are doing. Use common sense. Do not operate tool when you are tired or on medication.

19. Check for 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, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service center unless otherwise indicated elsewhere in this instruction manual. Have defective switches replaced by authorized service center. Do not use the tool if it cannot be turned on and off by the switch.

20. Warning

The use of any other accessory or attachment other than recommended in this instruction manual or the catalog may present a risk of personal injury and could invalidate any warranty.

21. Only qualified technicians should repair this tool

This electric tool is manufactured in accordance with the standard safety rules. Only experts may carry out the repair of electric tools, otherwise it may cause considerable danger for the operator.

INSTRUCTIONS:

Alpha Professional Tools® provides the highest quality parts and manufacturing techniques in the manufacture of this tool. In order to obtain the maximum effectiveness and provide the highest degree of safety, it is necessary to review and follow these instructions carefully before using the tool.

TECHNICAL DATA:

Power	115V-60Hz 220V-50Hz
Normal power (W)	1200W
No-load speed (min ⁻¹)	12,000 R.P.M.
Cutting disk diameter	5" / 125mm
Arbor	7/8" / 22mm
Max. cutting depth	1-5/8" / 41mm
Weight	7.2 lbs/3.3 kg

SAFETY ADVICE:

- Please note safety instructions on Page 2 - 3.
- Do not pierce the motor housing as this could damage the double insulation.
- Always remove plug from the outlet before making any changes to the settings or carrying out maintenance.
- Only plug-in when machine is switched off.
- Keep power cable clear from working range of the machine.
- The power cable should always lead away from you and behind the operating area.
- Before use, check the machine, cable and plug for any damages or material fatigue, only authorized service agents should carry out repairs.
- After switching off, the machine will not idle down immediately. Allow the machine to come to a complete stop before putting it down.
- Always wear safety glasses and ear protection when working with this machine. It is further recommended to wear safety gloves, apron, as well as sturdy non-slipping shoes.
- Only use tools whose permitted speed is at least as high as the highest no-load speed of the machine.

- Be sure cutting disk fits tool properly and securely. Do not modify the tool to force fit the blade. For example do not remove blade guard.
- Check cutting tools before use. The cutting tool must be properly mounted and turn freely. Perform a test run for at least 30 seconds without any load. Do not use damaged, out of round or vibrating cutting tools.
- Immediately switch off the machine in case of considerable vibrations or if other malfunctions occur. Check the machine in order to find out the cause.
- Always use and store the cutting disks according to the manufacturer's instructions. The bolt must be tightened before starting to work with the machine.
- The work piece must be secured if it is not heavy enough to prevent movement.
- Do not use emery wheel.
- The tool is designed for cutting on horizontal surfaces.

USAGE:

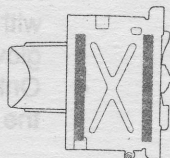
This stone cutter can be used for cutting many different materials, e.g. tile, concrete, stone or glass. In case of doubt please read the manufacturer's instruction. Do not use this product in any other way as stated for normal use.

MAIN CONNECTION:

Connect only to single-phase AC current supply and only to the main voltage specified on the rating plate. Connection to sockets without ground protection is possible as the appliance features protective insulation to DIN 57/740/ VDE 0740 and CEE 20. Radio suppression complies with the European standard EN 55014.

INSTRUCTIONS FOR INSTALLING THE FELT STRIPS ON THE AWS-125/AWS-225 BASE PLATE:

1. Wipe base plate with a clean rag to remove any dirt or residue.
2. Peel off film from the pressure sensitive adhesive on the enclosed felt strips.
3. Place strips on base plate parallel with the blade and press into place.



INSTALLATION OF WATER ATTACHMENT:

1. Remove the wing bolt and washer for adjusting the cutting depth. (See Figure-1)

2. Raise cutting depth so there is room between the body and the base plate. (See Figure-1)

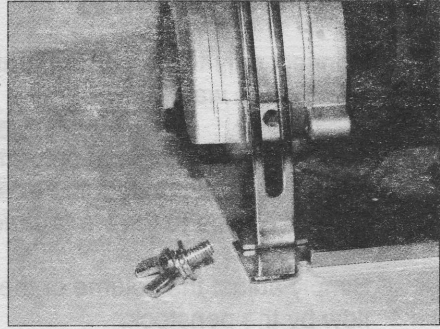


Figure-1

3. Insert the plastic nozzle on the water feed assembly behind the height adjustment slide. Make sure that the bridge (Part No. 133094) is in front of the slide. If your blade is already installed, the plastic nozzles should be positioned so that each nozzle directs water spray onto each side of the blade. (See Figure-2 & Figure-3)

4. Align the bridge with the wing nut hole and insert wing bolt. (See Figure-4)

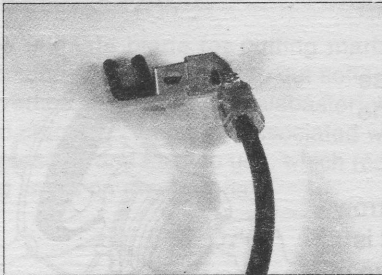


Figure-2

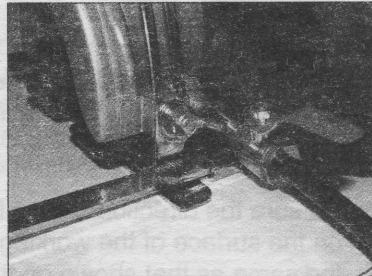


Figure-3

5. Adjust the height of the blade and securely tighten the wing bolt.

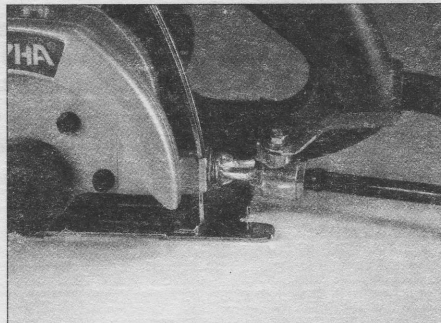


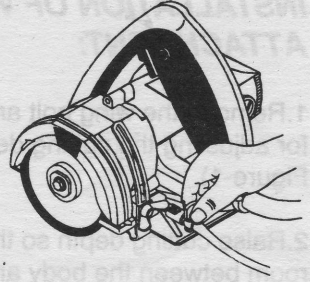
Figure-4

WATER FLOW:

Connect only to an isolating transformer when using water flow.

Connect the nylon hose onto the penstock, then connect the adapter on the nylon hose to the water faucet.

Simply adjust the volume of the water flow by the penstock.



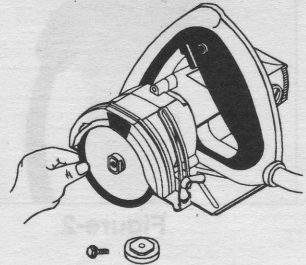
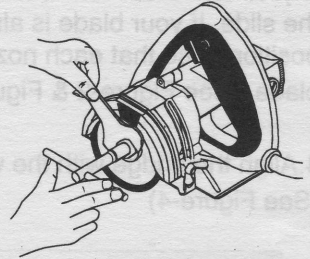
ASSEMBLING & DISASSEMBLING:

Make certain to switch off the machine and unplug from outlet before assembling or disassembling of the working tool.

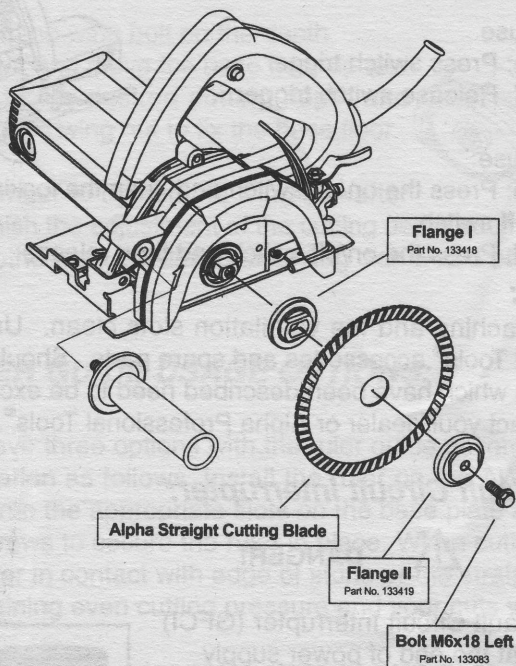
Clamp the flange with spanner and loosen bolt by the box spanner clockwise. Disassemble bolt, flange and working tool.

Please follow the same but reverse procedures when reassembling the working tool.

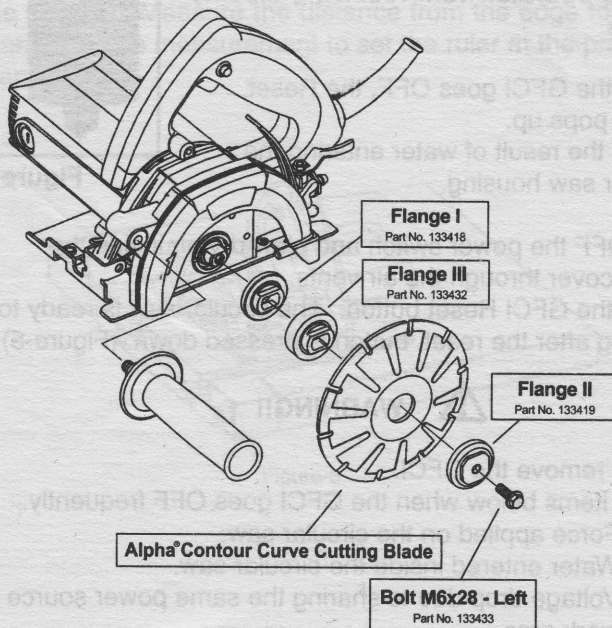
Be sure the direction shown by arrow on the surface of the working tool is the same as that shown on the cap of the machine. Make certain the bolt is firmly tightened.



STRAIGHT BLADE INSTALLATION



CURVE CUTTING BLADE INSTALLATION

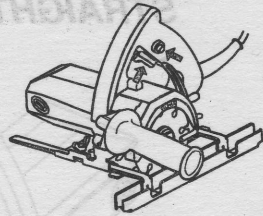


SWITCHING ON AND OFF:

Intermittent use

Switching on: Press switch trigger

Switching off: Release switch trigger



Continuous use:

Switching on: Press the on/off switch and then the locking button; release on-off switch.

Switching off: Press the on/off switch and then release.

SERVICE:

Keep the machine and the ventilation slots clean. Use only Alpha Professional Tools® accessories and spare parts. Should components which have been described need to be exchanged please contact your dealer or Alpha Professional Tools®.

Ground Fault Circuit Interrupter:



DANGER!

A Ground Fault Circuit Interrupter (GFCI) is mounted at the end of power supply cord. The GFCI goes OFF when water enters inside the tool's housing preventing the operator from receiving electric shocks.

When the GFCI goes OFF, the Reset button pops up.

This is the result of water entering the circular saw housing.

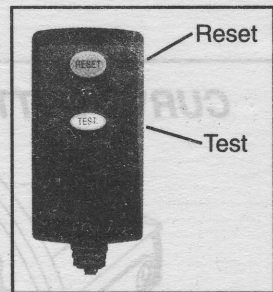


Figure-5

Turn OFF the power switch and blow dry air inside the motor cover through the air vents.

Press the GFCI Reset button. The circular saw is ready to start working after the reset button is pressed down. (Figure-5)



WARNING!!

1. Do not remove the GFCI.
2. Check items below when the GFCI goes OFF frequently.
 - Force applied on the circular saw.
 - Water entered inside the circular saw.
 - Voltage drop due to sharing the same power source in work area.

ADJUSTING CUTTING DEPTH:

Loosen the wing bolt on the depth indicator and move the base floor up and down to the desired cutting depth and tighten the wing nut to fix the base floor.



Remember to tighten the wing bolt after you finish the adjustment of the cutting depth each time, otherwise the diamond-cutting disk would be damaged.

RULER GUIDE USAGE OPTIONS:

You have three options with the ruler guide according to your application as follows. Install the ruler on the AWS by inserting the arms into the appropriate slots on the base plate and tightening the screws to secure the ruler in place. When cutting, simply keep the ruler in contact with edge of stone or the straight edge while maintaining even cutting pressure and your cuts will be straight.

When using the edge of the stone as your guide, install the ruler guide downward (Figure-6) so that the ruler guide would be below the base plate and the inner side of the ruler guide would follow the edge of stone. Measure the distance from the edge to the intended cut and use this measurement to set the ruler at the proper distance.

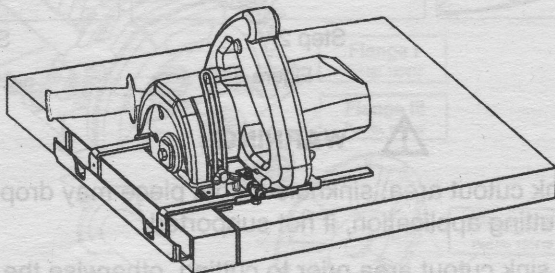


Figure-6

USING THE RULER GUIDE (continued)

When using the straight edge as a guide, install the ruler guide upward (Figure-7) so that the ruler guide would be above the base plate and the outer edge of the ruler guide would follow the edge of straight edge. Measure the distance from the straight edge to the intended cut and use it to set the ruler at the proper distance.

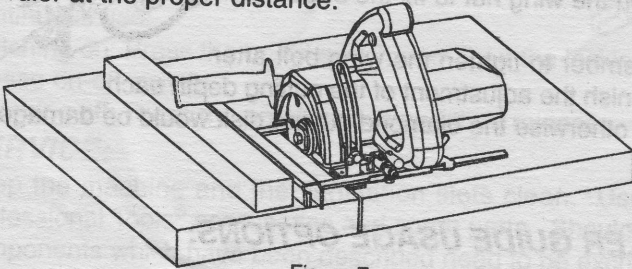
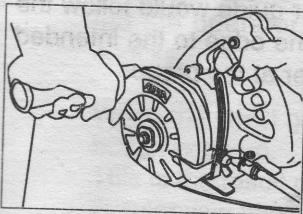


Figure-7

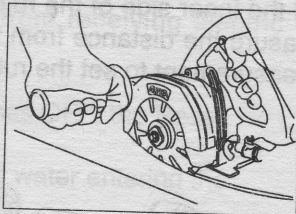
CURVE CUTTING APPLICATION

When cutting the curved line, you can remove the ruler guide and cut free-hand. (Figure-8)

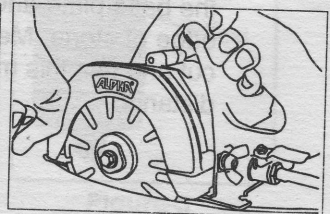
- Step 1. Score along the cutting line.
- Step 2. Step-cut along scored line.
- Step 3. Plunge cut all the way to make full contact between bottom plate and stone, then maintain even cutting pressure to follow curved cut line.



Step 1



Step 2



Step 3

Figure-8



WARNING!!

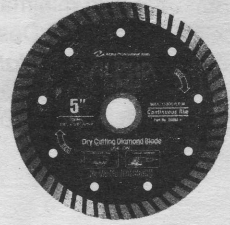
Support the sink cutout area; sinkhole cutout piece may drop to the floor at the end of cutting application, if not supported.

1. Support the sink cutout area prior to cutting, otherwise the work piece may drop to the floor at the end of the cutting application.
2. Use the **Alpha® Contour** Cutting blade only. Application with inferior blades may cause damage to the stone cutter.
3. Do not force the stone cutter during the cutting application. Allow the blade to cut at its own pace. Excessive force may damage the stone cutter.

RECOMMENDED ACCESSORIES:

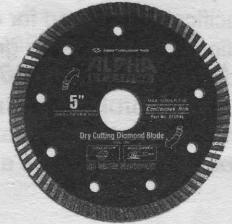
Alpha® Plus

The ultimate diamond blade for cutting granite, marble, natural and engineered stone, ceramic tile and other hard materials. Made with the highest quality diamonds and matrix for long life and chip-free cutting. The high performance turbo rim helps get the job done fast!



Alpha® Eclipse

The ideal general purpose blade for use on masonry, concrete and tile. The turbo rim allows for safe and smooth operation. It is cost effective, long lasting and provides consistent results. A valuable addition to your toolbox.



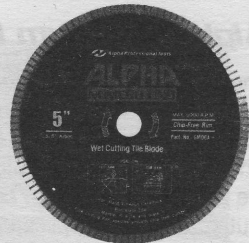
Alpha® Libero

The ultimate blade for cutting marble: The advanced diamond rim is designed to cut softer materials (marble, travertine, soapstone and alabaster) without the chipping and cracking commonly associated with dry cutting. It is aggressive and easy to use, which reduces finishing time and saves on raw materials.



Alpha® Numero Uno

Our premium wet saw blade: It is designed for cutting natural and engineered stone slabs and tile. The advanced style rim will cut most difficult natural and engineered stone tiles quickly and efficiently while reducing the risk of chipping and breaking. **Alpha® Numero Uno** is the number one choice.



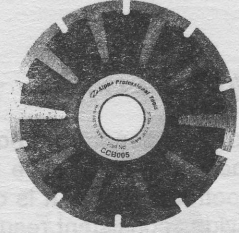
Alpha® Porcellana

The **Alpha® Porcellana** provides fast and consistent performance with minimal chipping when cutting porcelain tile or slab. Designed for continuous cutting; no dressing necessary. **Alpha® Porcellana** is the best choice for cutting porcelain. Also works well on glass and natural or engineered stone.



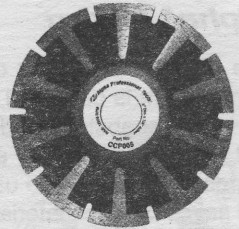
Alpha® Contour Blade for Granite

The new and improved **Alpha® Contour Blades** are specifically designed for cutting sinkholes and other curve cutting applications on granite and harder types of natural and engineered stone. Alpha's new design incorporates diamonds on **both sides of the steel core** for better performance. In combination with **Alpha® AWS-125 Wet Stone Cutter** makes application easy for everyone.



Alpha® Contour Blade for Porcelain

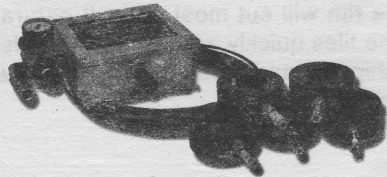
This is the latest addition to **Alpha® Contour** curve cutting series blade for Porcelain. Alpha® made this application possible in conjunction with **Alpha® AWS-125 Wet Stone Cutter**. You can cut sinkhole of 1-1/4" porcelain slab without breaking the rim. Due to the nature of the material, this blade must be used wet only.



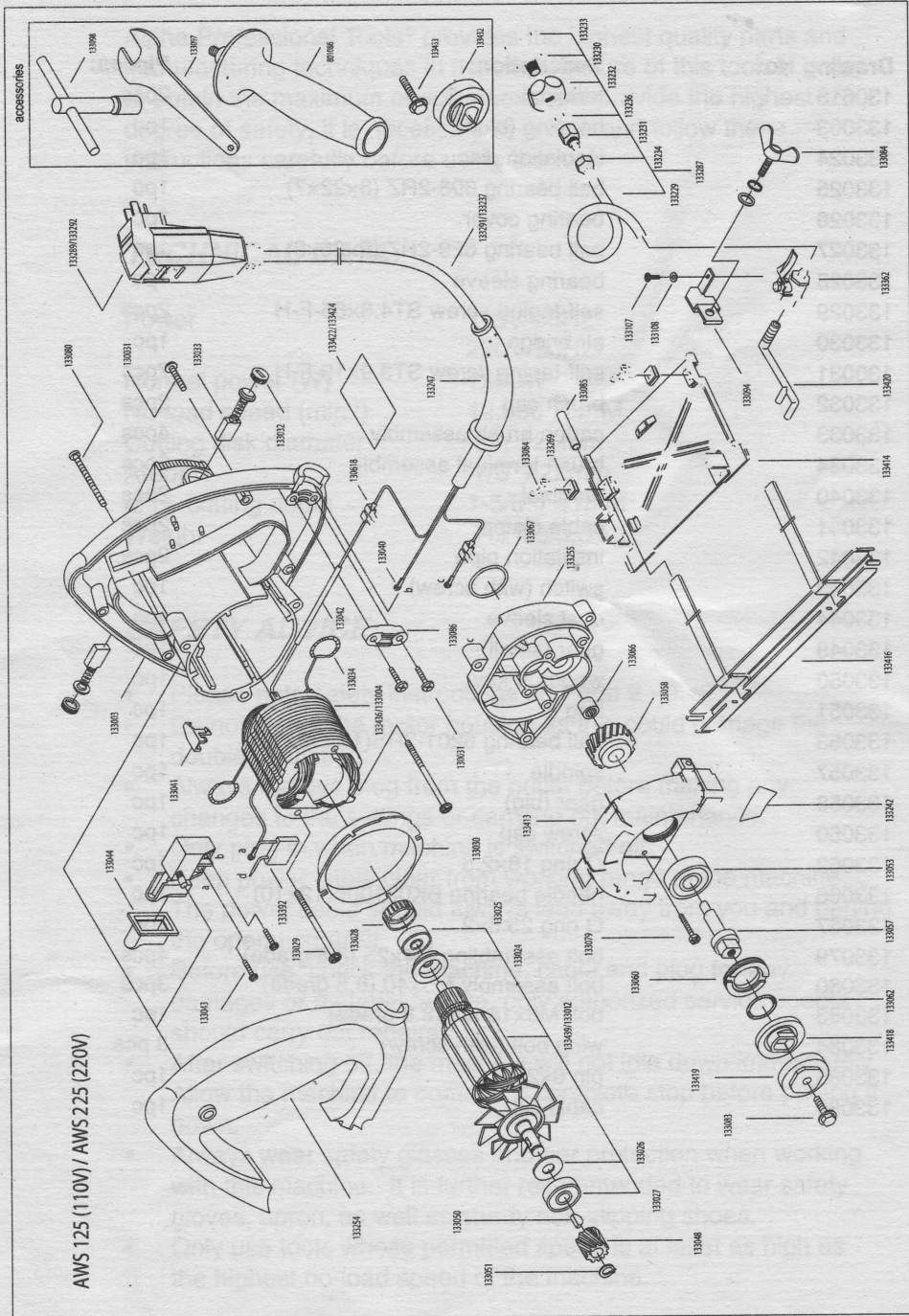
***Always wear eye protection and proper personal safety equipment when using these products.**

Alpha® Vacuum Hold Down System

The **Alpha® Vacuum Hold Down System** is a clamp-free restraining system utilizing compressed air that is particularly useful when performing sink cutouts, polishing with the **Alpha® Edgecraft**, profiling with a router, and other applications where clamping is necessary.



ALPHA® WET STONE CUTTER SCHEMATIC:



ALPHA® WET STONE CUTTER PARTS LIST:

Drawing No:	Description:	Pieces:
130618	terminal	2pcs
133003	housing (blue)	1pc
133024	insulation disc	1pc
133025	ball bearing 608-2RZ (8×22×7)	1pc
133026	bearing cover	1pc
133027	ball bearing 629-2RZ (9×26×8)	1pc
133028	bearing sleeve	1pc
133029	self-taping screw ST4.8×65-F-H	2pcs
133030	air bridge	1pc
130031	self-taping screw ST3.9×19-F-H	7pcs
133032	brush cap	2pcs
133033	carton brush assembly	4pcs
133034	brush terminal assembly	2pcs
133040	terminal	2pcs
133041	cable clamp	2pcs
133042	insulation pipe	2pcs
133043	switch (with screw)	1pc
133044	dust sleeve	1pc
133048	gear (small)	1pc
133050	woodruff key	1pc
133051	ring 8	1pc
133053	ball bearing 6201-2RS(12×32×10)	1pc
133057	spindle	1pc
133058	gear (big)	1pc
133060	screw cap	1pc
133062	O ring 18×2.5	1pc
133066	needle bearing BK0810(8×12×10)	1pc
133067	O ring 25.5×2	1pc
133079	bolt assembling M4×25 (8.8 grade)	4pcs
133080	bolt assembly M5×40 (8.8 grade)	3pcs
133083	bolt M6×18-left (8.8 grade)	1pc
133084	wing bolt (with screw)	3 pcs
133085	pin 6×28	1pc
133086	cable clip	1pc

ALPHA WET STONE CUTTER PARTS LIST (continued)

Drawing No:	Description:	Pieces:
133094	bridge	
133097	wrench	1pc
133098	box wrench	1pc
133107	screw M3×5 (8.8 grade)	1pc
133108	washer 3	1pc
133229	hose	1pc
133230	sleeving connector	1pc
133231	screw cap	1pc
133232	joint	1pc
133233	sleeving washer	1pc
133242	brand poster	1pc
133247	cable sleeve	1pc
133254	handle	1pc
133255	gear box	1pc
133269	washer for ruler	2pcs
133287	water attachment	1pc
133289 /133292	GFCI 110V/220V	1pc
133291 /133237	cable 110V/220V	1pc
133362	water valve	1pc
133369	felt strip	2pcs
133392	suppressor assembly	1pc
133413	cover	1pc
133414	base plate assembly	1pc
133416	TT ruler guide	1pc
133418	flange I	1pc
133419	flange II	1pc
133420	nozzle	1pc
133422/133424	rated plate 110V/220V	1pc
133432	flange III	1pc
133433	bolt M6×28-left (8.8 grade)	1pc
133436/133004	field 110V/220V	1pc
133439/133012	armature 110V/220V	1pc
801086	forward handle	1pc

LOANER PROGRAM:

Loaner tools can be issued to temporarily replace a tool that is being returned to Alpha® for repair. If more than one tool is being returned for repair, the number of loaner tools provided will be based on availability.

If a loaner tool is required, contact the Tool Department at Alpha® at (800) 648-7229 to receive a Loaner Tool Application. A valid credit card number must be provided as a security deposit. The credit card will only be charged if the loaner tool is not returned to Alpha® within 30 days. An authorized signature is required for the credit card being used. A second signature is required as an agreement of the overall policy.

Note: This program is not available outside the continental United States.

NEED MORE INFO?

24hr Technical Fax on Demand - **1-888-29-ALPHA** and request Doc# 147 or visit our website at **www.Alpha-Tools.com**.

PRODUCT REGISTRATION CARD

Model No. _____

Serial No. _____

Company Name: _____

Name: _____

Address: _____

City: _____ State: _____ Zip: _____

Telephone: _____

Purchase Date: _____

Dealer's Name: _____

Note: Serial & Model Number must be included for proper registration.



Alpha Professional Tools®

(800) 648-7229

Mail or Fax to:
Alpha Professional Tools
250 Braen Avenue, Wyckoff, NJ 07481
Fax: 800-286-0114

Photocopy of product registration form will be accepted.

EC DECLARATION OF CONFORMITY:

Name of Manufacturer: Alpha Professional Tools®

Address of Manufacturer: 250 Braen Avenue
Wyckoff, NJ 07481
USA

Herewith declares that:

ELECTRIC HAND TOOL: "Electric Stone Cutter"

Make: Alpha Professional Tools®
Type: AWS-125/AWS-225

-does comply with the provisions of the Low Voltage Directive 73/23EEC amended by 93/68 EEC and Machinery Directive 98/37/EC.

And furthermore declares that:

-The following (parts/clauses of) harmonized standards have been applied: EN55014-1/ + A1: 2001, EN55014-2/ + A1: 2001, EN61000-3-2:2000, EN61000-3-3/+A1:2001.

Year of affix CE Marking: 2003

Wyckoff, New Jersey USA

Mar / 22.2004



Nao Takahashi
(President)

Limited Warranty of Alpha® Wet Stone Cutter

Alpha Professional Tools® warrants this product against defects in material and workmanship for a period of 180 days from the date of original retail purchase (proof of purchase required). If Alpha Professional Tools® receives notice of such defects during the warranty period, our obligation assumed under this warranty is limited to the repair or replacement of parts, without charge. This warranty does not apply to tool accessories.

For Warranty Claims: Send complete tool with all your information and details of the problem to the address printed on the cover of this manual, transportation prepaid. Do not send tool accessories.