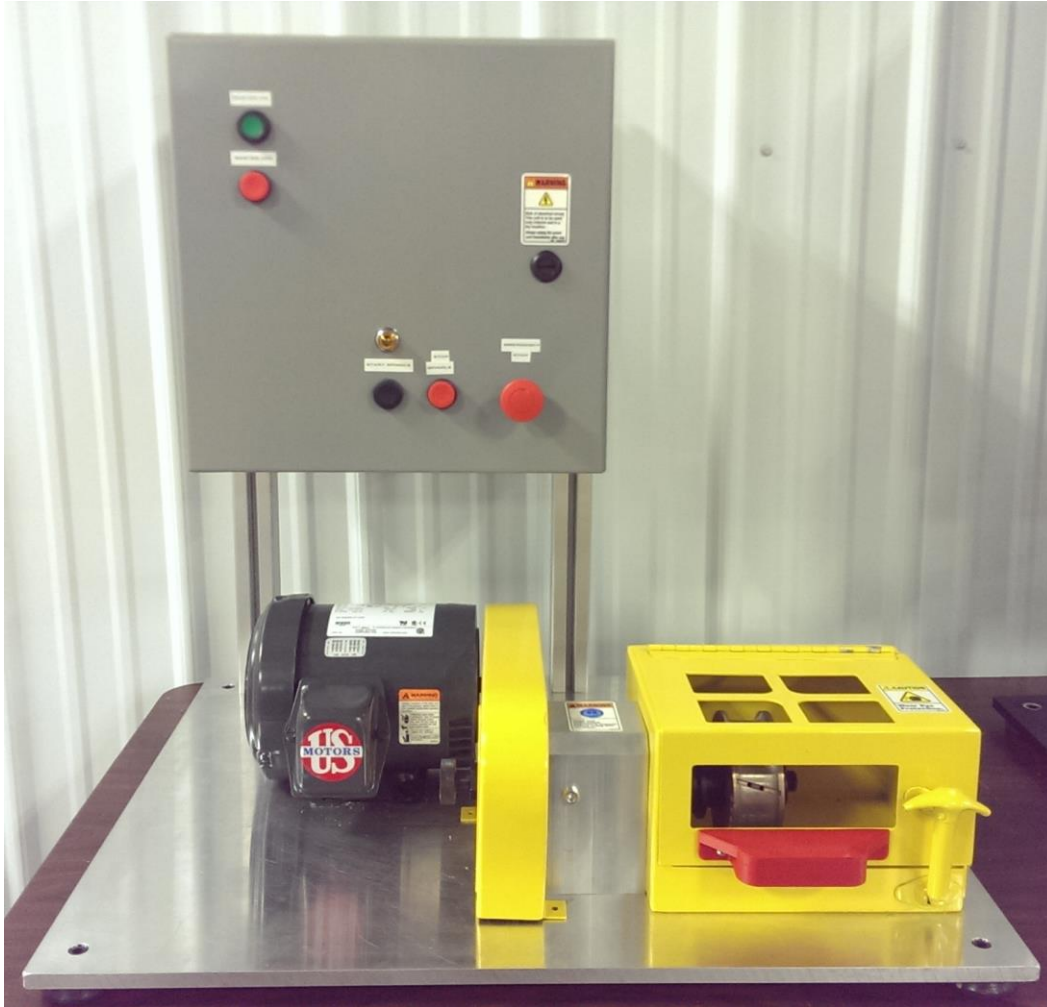


Advant-Edge Dressing Machine Operating Manual



Model
DRM-001



WARNING:

To reduce risk of injury, the user must read and understand the operator's manual before using this product.

SAVE THIS MANUAL FOR FUTURE REFERENCE

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GENERAL SAFETY RULES



WARNING:

Read and understand all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious personal injury.

READ ALL INSTRUCTIONS

- **KNOW YOUR POWER TOOL.** Read the owner's manual carefully. Learn the wheel dresser's applications and limitations as well as the specific potential hazards related to this tool.
- **GUARD AGAINST ELECTRICAL SHOCK BY PREVENTING BODY CONTACT WITH GROUNDED SURFACES.**
- **KEEP GUARDS IN PLACE** and in good working order.
- **KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents.
- **DO NOT USE IN DANGEROUS ENVIRONMENTS.** Do not use machinery in damp or wet locations or expose to rain. Keep the work area well lit.
- **KEEP CHILDREN AND VISITORS AWAY.** All visitors should wear safety glasses and be kept a safe distance from work area. Do not let visitors contact machine or power cord while operating.
- **DO NOT USE AN EXTENSION CORD.** Use of an extension cord could cause electrical hazard and/or fire.
- **DRESS PROPERLY.** Do not wear loose clothing, gloves, neckties, or jewelry. These items can get caught and draw you into moving parts. Also wear protective hair covering to contain long hair.
- **ALWAYS WEAR SAFETY GLASSES WITH SIDE SHIELDS OR A FACE MASK.** Everyday eyeglasses have only impact-resistant lenses, these are **NOT** safety glasses.
- **SECURE TOOL HOLDER.** Make sure the tool holder is securely in place before turning on the machine.
- **AVOID ACCIDENTAL STARTING.** Be sure the power switch is off when installing any tool holder or diamond wheel.
- **USE RECOMMENDED ACCESSORIES.** Currently there are no recommended accessories.
- **CHECK DAMAGED PARTS.** Before use of the machine, a guard or tool holder 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 of other part that is damaged must be properly repaired or replaced by an authorized service center to avoid risk of personal injury.
- **NEVER LEAVE THE TOOL RUNNING UNATTENDED. TURN THE POWER OFF.** Do not leave the machine until it comes to a complete stop.
- **PROTECT YOUR LUNGS.** Wear a face or dust mask if the operation is dusty.
- **PROTECT YOUR HEARING.** Wear hearing protection during extended periods of operation.
- **DO NOT ABUSE CORD.** Never yank cord to disconnect from receptacle. Keep cord away from heat, oil, and sharp edges.
- **MACHINE COASTS AFTER BEING TURNED OFF.**
- **NEVER USE IN AN EXPLOSIVE ATMOSPHERE.** Normal sparking could ignite fumes.
- **INSPECT MACHINE CORDS PERIODICALLY.** If damaged, have repaired by a qualified service technician at an authorized service facility. The conductor with insulation having an outer surface that is green with or without yellow stripes in the equipment-grounding conductor. If repair or replacement of the electrical cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal. Repair or replace a damaged or worn cord immediately. Stay constantly aware of cord

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- location and keep in well away from rotating tool holder and/or diamond wheel.
- **NEVER TOUCH DIAMOND WHEEL** or other moving parts during use.
 - **GROUND ALL MACHINES.** If machine is equipped with three-prong plug, it should be plugged into a three-hole electrical receptacle.
 - **CHECK WITH A QUALIFIED ELECTRICIAN** or service personnel if the grounding instructions are not completely understood or if in doubt as to whether the machine is properly grounded.
 - **DO NOT MODIFY** the plug provided. If it will not fit the outlet, have the proper outlet installed by a qualified electrician.
 - **KEEP TOOL DRY, CLEAN, AND FREE FROM OIL AND GREASE.** Always use a clean cloth when cleaning. Never use brake fluids, gasoline, petroleum-based products, or any solvents to clean machine.
 - **STAY ALERT AND EXERCISE CONTROL.** Watch what you are doing and use common sense. Do not operate machine when you are tired. Do not rush.
 - **DO NOT USE MACHINE IF SWITCH DOES NOT TURN IT ON AND OFF.** Have defective switches replaced by an authorized service center.
 - **BEFORE DRESSING A DIAMOND WHEEL, MAKE SURE ALL ADJUSTMENTS ARE SECURE.**
 - **DO NOT OPERATE MACHINE WHILE UNDER THE INFLUENCE OF DRUGS, ALCOHOL, OR ANY MEDICATION.**
 - **WHEN SERVICING** use only identical replacement parts. Use of any other parts may create a hazard or cause product damage.
 - **USE ONLY RECOMMENDED ACCESSORIES.** Use only Diarex certified tool holders when operating.
 - **DOUBLE CHECK ALL SETUPS.** Make sure tool holder is tight and diamond wheel is securely on tool holder before connecting to power supply.
 - **PREVENT UNINTENTIONAL STARTING.** Ensure the switch is in the off-position before connecting to power source.






SAVE THESE INSTRUCTIONS

SPECIFIC SAFETY RULES

- **NEVER** operate wheel dresser on the floor.
- **USE THE SAFETY GUARD.**
- **ALWAYS** secure tool holder before powering.
- **NEVER** stick any body parts into the safety guard.
- **NEVER** open safety guard while the spindle is spinning.
- **IF THE POWER SUPPLY CORD IS DAMAGED** it must be replaced only by the manufacturer or authorized service center.
- **ALWAYS** turn off spindle **AND** master power before disconnecting to avoid accidental starting when reconnecting power supply.
- **THIS TOOL** should have the following markings:
 - Wear Eye Protection
 - Moving parts can crush or cut (2x)
 - Read and understand operator's manual before using machine.
 - Risk of electrical shock.
- **SAVE THESE INSTRUCTIONS.** Refer to them frequently and use to instruct other users. If you loan someone this machine, loan them these instructions too.




SYMBOLS

Some of the following symbols may be used on this machine. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the machine better and safer.

	Safety Alert	Indicates a potential personal injury hazard
	Read Operator's Manual	To reduce risk of injury, user must read and understand operator's manual before using this product.
	Eye Protection	Always wear eye protection marked to comply with ANSI Z87.1.
	No Hands Symbol	Failure to keep your hands away from machine may result in serious personal injury.
	Wet Conditions Alert	Do not expose to rain or use in damp locations.
Hz	Hertz	Frequency (cycles per second)
V	Volts	Voltage
A	Amperes	Current
W	Watt	Power
Min	Minutes	Time


SYMBOLS



The following signal words and meanings are intended to explain the levels of risk associated with this product.

SYMBOL	SIGNAL	MEANING
	DANGER:	Indicates an imminently hazardous situation, which, if not avoided, will result in death or serious injury.
	WARNING:	Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.
	CAUTION:	Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.
	CAUTION:	(Without Safety Alert Symbol) Indicates a situation that may result in property damage.

SERVICE

Servicing requires extreme care and knowledge and should be performed only by a qualified service technician. For service we suggest you return the product to your nearest **AUTHORIZED SERVICE CENTER** for repair. When servicing, use only identical parts.

 **WARNING:**
To avoid serious personal injury, do not attempt to use this product until you read thoroughly and understand completely the operator's manual. If you do not understand the warnings and instructions in the operator's manual, do not use this product. Call GranQuartz, Inc. for assistance.

 **WARNING:**
 The operation of any power tool/machine can result in foreign objects being thrown into your eyes, which can result in severe eye damage. Before beginning operation, always wear safety goggles or safety glasses with side shields and, when needed, a full face shield. We recommend Wide Vision Safety Mask for use over eyeglasses or standard safety glasses with side shields. Always use eye protection which is marked to comply with ANSI Z87.1.

SAVE THESE INSTRUCTIONS

ELECTRICAL

ELECTRICAL CONNECTION

This product is powered by a precision built electrical motor. Do not operate this product on direct current (DC). A substantial voltage drop will cause a loss of power and the motor will overheat. If the wheel dresser does not operate when plugged into an outlet, double check the power supply.

NOTE: In order to properly run the wheel dresser, a qualified electrician must properly set up a 120 Volt 20 amp plug receptacle. Failure to do so will result in an inability to run your wheel dresser. See figures 1 and 2 for the twist lock plug and receptacle, respectively.



Fig. 1: 20A Plug

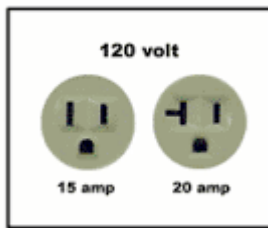


Fig. 2: 20A Receptable

SPEED AND WIRING

The maximum no-load speed of this machine is approximately 3,475 rpm. This speed is not constant and decreases under a load or with lower voltage. For voltage, the wiring in a shop is as important as the motor's horsepower rating. A line intended only for lights cannot properly carry a power tool motor. Wire that is heavy enough for a short distance will be too light for a greater distance. A line that can support one power tool may not be able to support two or three tools.

GROUNDING INSTRUCTIONS

This product must be grounded. In the event of a malfunction or breakdown, grounding provides a path of least resistance for electrical current to reduce the risk of electric shock. This tool is equipped with an electrical cord having an equipment-grounding conductor and grounding twist lock 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 in the outlet have the proper outlet installed by a qualified electrician.



WARNING:

Improper installation of the grounding plug can result in a risk of electric shock. When repair or replacement of the cord is required, do not connect the grounding twist lock plug to the matching terminal. The wire with insulation having an outer surface that is green with or without yellow stripes is the grounding wire.

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 a damaged or worn cord immediately.

OPERATION

⚠ WARNING:
Do not allow familiarity with machinery to make you careless. Remember that a careless fraction of a second is sufficient to inflict serious injury.

⚠ WARNING:
Always wear eye protection with side shields maked to comply with ANSI Z87.1. Failure to do so could result in objecfts being thrown into your eyes, resulting in possible serious injury.

⚠ WARNING:
Do not use any attachments or accessories not recommended by the manufacturer of this machine. The use of attachments or accessories not recommended can result in serious personal injury.

⚠ WARNING:
Although many of the illustrations in this manual are shown with the splash guard removed for clarity, do not operate the machine without the splash guard, unless specifically instructed to do so.

APPLICATIONS

You may use this machine for the purposes listed below:

- Cleaning a profile wheel

BASIC OPERATIONS OF THE WHEEL DRESSER

The twist lock plug must be plugged into a matching outlet that is properly installed and grounded according to all local codes and ordinances. Improper connection of the equipment can result in electric shock. Do not modify the plug if it will not fit the outlet. Have the correct outlet installed by a qualified electrician.

POWER SWITCH

The wheel dresser is equipped with a green “Master On” button, a red “Master Off” button, a black “Start Spindle” button, a red “Stop Spindle” Button and an “Emergency Stop” red palm button. An indicator light is also placed on the front panel to alert the user when the spindle is running. The light will be lit when the spindle is in the “Start Spindle” position.

TO BEGIN THE WHEEL DRESSING PROCESS:

- Place the tool holder with an attached profile wheel in the spindle, retention knob first, as seen in figure 3.



Fig. 3: Installing Tool Holder

- An image of an installed tool holder can be seen in figure 4.



Fig 4: Installed Tool Holder

- Firmly lock the tool holder in place by tightening the locking knob (seen in figure 5)



Fig. 5: Locking knob

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- Close the safety guard and engage the spring-loaded locking lever, as seen in figure 6.



Fig 6: Engaged safety guard

- Press the green “Master On” button to give power to your machine, followed by the pressing the black “Start Spindle” button to begin spinning the profile wheel, once securely attached to the wheel holder.

TO TURN OFF YOUR WHEEL DRESSER:

- Press the red “Stop Spindle” button to stop spinning the profile wheel, followed by the green “Master Off” button to cut power to the entire machine.
- In case of emergency, press the red “Emergency Stop” palm button to immediately cut power to the entire machine.

! WARNING:
Always make sure the “Master Off” button is off when the wheel dresser is not in use. In the event of a power failure, turn the “Master Off” button off. This action will prevent the spindle from starting up accidentally when power returns.

! WARNING:
To reduce the risk of accidental starting, always make sure the “Master On” and “Start Spindle” buttons are turned off before plugging the machine into the power source.

MAINTENANCE

! WARNING:
When servicing, use only identical replacement parts. Use of any other parts may create a hazard or cause product damage.

! WARNING:
Always wear safety goggles or safety glasses with side shields during machine operation or when blowing dust. If operation is dusty, also wear a dust mask.

! WARNING:
Before performing any maintenance, make sure the machine is unplugged from the power supply and the “Master On” switch is in the off position. Failure to heed this warning could result in serious personal injury.

GENERAL MAINTENANCE

Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use clean cloths to remove dirt, dust, oil, grease, etc.

! WARNING:
Do not at any time let brake fluids, gasoline, petroleum-based products, penetrating oils, etc., come in contact with plastic parts. Chemicals can damage, weaken or destroy plastic which may result in serious personal injury.

- Periodically check all clamps, nuts, bolts, screws, and belts for tightness and condition.
- Check the splash guard assembly.
- Clean plastic parts only with a soft damp cloth. Do not use any aerosol or petroleum solvents**

WARRANTY

90-DAY PARTS AND LABOR GUARANTEE POLICY

This limited warranty covers all defects in workmanship or materials for the first 90 days from the date of purchase.

Please contact your local sales rep or GranQuartz customer service (800-458-6222) to obtain service. All parts deemed defective will be replaced free of charge.

This warranty does not include freight to and from the service center.

12-MONTH PARTS GUARANTEE POLICY

This limited parts guarantee covers all part defects for the first 12 months from the date of purchase.

If any parts are broken or worn beyond use, please contact Granquartz at 800-458-6222 to receive replacement parts. When requesting warranty replacement parts, please present your proof of purchase to an authorized representative to receive replacement parts.

This warranty does not include freight from the manufacturer to the customer.

WHAT IS NOT COVERED

These warranties apply only to the original purchaser and may not be transferred. These warranties only cover defects arising from normal usage and does not cover any malfunction, failure, or defect resulting in missuse, abuse neglect, alteration, modification or repair by other than an authorized service center for Granquartz.

Consumable accessories purchased to be operated with this machine are not covered.

HOW TO OBTAIN SERVICE

DO NOT SEND THE UNIT TO GRANQUARTZ!

The customer must ship or deliver the product to the designated repair center freight prepaid. You may obtain the location of the authorized service center by calling Granquartz Customer Service at 800-458-6222

TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
Wheel Dresser will not spin	Master On button is not turned on	<i>Engage Master On button</i>
	Stop Spindle button is on	<i>Turn off Stop Spindle button</i>
	Emergency Stop button is engaged	<i>Disengage Emergency Stop button</i>
	Wall cord is not plugged in	<i>Plug in wall cord</i>
	Cord or switch is damaged	<i>Have the cord or switch replaced at an authorized service center</i>
	Circuit breaker is tripped	<i>Reset circuit breaker</i>
Excess Vibration	Bolts are not completely secured	<i>Tighten all bolts</i>
	Tool holder not completely secured	<i>Reinsert tool holder to make sure it is secure</i>
	Profile wheel not mounted correctly	<i>Remount profile wheel to make sure it is secure</i>
Tool Holder won't go in receiver	Locking knob isn't fully open	<i>Fully open locking knob by twisting clockwise</i>
	Debris in receiver/on retention knob	<i>Clean receiver and tool holder</i>
	Tool holder will not tighten in spindle	<i>Remove tool and fully open locking knob by twisting clockwise. Then re-insert the tool and firmly tighten tool in spindle by twisting locking knob counter-clockwise until tight.</i>