



Operating Manual

Please Read Before Operating Unit



Model R1S Fine Magnet Wire Stripper

Please Call for Service or Spare Parts

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Always Moving Forward®



FINE MAGNET WIRE STRIPPER



SPECIFICATIONS

Wire Size:

Minimum45 AWG (0.046mmø)
Maximum28 AWG (0.33mmø)

Strip Length 0 to infinity

Close-up stripping:

With size A wheelswithin 5/16" (8mm)
of coil body
With size B wheelswithin 3/8" (10mm)
of coil body
With BEV wheelswithin 5/16" (8mm)
of coil body

Decibel rating..... 66 dB(A)

Power I.E.C. Connected, 120V 60 Hz

Size.....11 1/2" x 6" x 8"
(292mm x 152mm x 203mm)

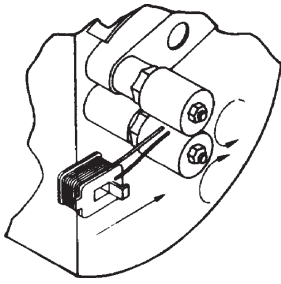
Weight 13 1/2 lbs. (6 Kg)

ORDERING INFORMATION

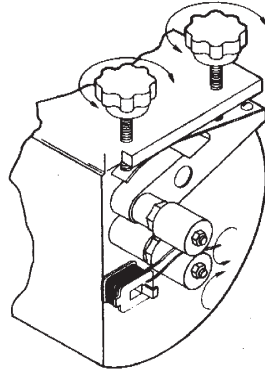
- AR2131 (R1S) Fine wire stripper 120V 60Hz
- Replacement fiberglass wheels (pair)see chart
- Replacement wire wheel (single).....see chart
(2 required per machine)
- AR2901..... Wheel dresser
- AR3020..... Wheel dresser refills (packet of 10)
- IR8841 RH spindle nut (upper)
- IR8853 LH spindle nut (lower)

FINE MAGNET WIRE STRIPPER

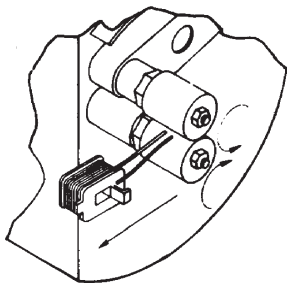
OPERATION



1) Insert wire to be stripped.



2) Adjust pressure on wire until wire can be stripped without breakage.

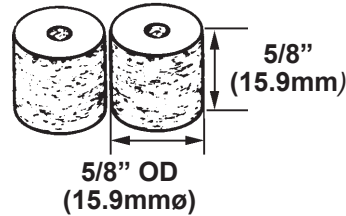


3) Pull wire smoothly through wheels and out.

WHEEL SELECTION GUIDE

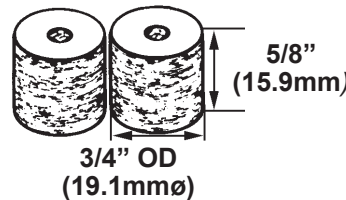
Fybrglass Wheel Dimensions

Size A Wheels



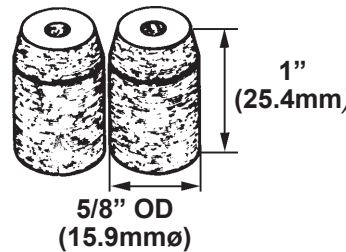
Size A wheels permit closer stripping to coil body due to small diameter. Wire wheels also available in size A.

Size B Wheels



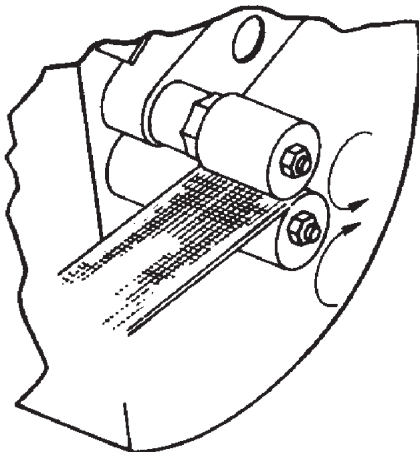
Size B wheels have a larger diameter for an extended wheel life.

BEV Wheels



BEV wheels permit easy wheel entrance and large width for stripping several wires at one time.

WHEEL DRESSING



Wheels should be dressed whenever the performance deteriorates. Regular dressing will increase wheel life and production. Wheels may be used to within 1/8" (3.2mm) of their arbor hole.

STRIPPING WHEEL SELECTION CHART

Fybrglass® Stripping Wheels			
Size A	Size B	BEV	Stripping Range
AE0031	AE0111	AE0131	24-26 AWG (0.51mm-0.41mmø)
AE0031	AE0034	AE0076	26-30 AWG (0.41mm-0.25mmø)
AE0032	AE0035	AE0077	30-42 AWG (0.25mm-0.064mmø)
AE0033	AE0036	AE0278	35-45 AWG (0.14mm-0.046mmø)
Wire Stripping Wheels			
All wire wheels have an OD & Width of 3/4" (19mmø)			
Order #	Fill Size	Application	
AC0751	0.008" (0.20mmø)	For stripping large wires and rectangular sections	
AC0752	0.004" (0.10mmø)	For general purpose use	

MODEL R1S FINE MAGNET WIRE STRIPPER

OPERATING INSTRUCTIONS

SET-UP:

Attach the plexiglass guard to the front of the unit, using the two thumbscrews installed on the housing.

The Model R1S is shipped with four mounting pads located on the base. It is recommended that the unit be bolted to the work surface. Remove the four mounting pads before attaching unit to the work surface. Failure to remove the pads may cause the housing to crack. A 6" (152mm) wide bolt pattern using two 5/16" diameter bolts may be used to mount the unit.

There is no further set-up required. Connect the unit to the proper power supply. The US plug is for use on 115V, 60Hz mains supply. The power cord should be plugged into the IEC receptacle at the rear of the R1S. Be sure to use a properly grounded mains supply.

! CAUTION: The unit should be operated in an open, well-ventilated work area. This unit may be affected by outside environmental disturbances. Should power to the unit be interrupted, the unit will not restart until the I/O (on/off) switch is reset and turned on. The R1S is rated for continuous use and is protected with a circuit breaker in the I/O switch.

OPERATION:

! CAUTION: Safety glasses or other suitable eye protection should be worn when using this unit.

Turn unit on by pressing the I on the I/O (on/off) switch. Set up for different wire sizes is by trial and error. Open the stripping wheels by use of the space adjusting knob located on top of the R1S. Insert the wire between the slot in the guard and the wheels and close the wheel spacing slowly until a slight pull on the wire is felt. Adjust the pressure on the wire by use of the pressure regulating knob on top of the unit, until the wire may be easily pulled through the wheels and stripped without breakage. Insert the wire into the wheels from the side of the guard and at the furthest point back in the desired strip length on the wire. Pull the wire smoothly through the wheels and out. Make wheel adjustments as necessary until wire strips cleanly and without undue pressure.

! CAUTION: Never allow the wheels on the R1S to grind against each other for any length of time, as this can put strain on the nylon gears in the head and may cause stripping of the gears. Refer to wheel dressing instructions in "Maintenance" to learn how to avoid this condition.

MAINTENANCE:

Wheel Dressing - Fiberglass wheels require frequent dressing to ensure maximum stripping performance and prevent wire breakage. This is especially critical when stripping fine gauge wires. Dressing sands the wheels smooth and removes any insulation embedded in the wheels, as well as removing any grooves caused by stripping in the same spot on the wheels continually. Wheels should be dressed whenever the performance of the wheels deteriorates. Regular dressing will increase wheel life and production. Wheels may be used to within 1/8" (3.2mm) of their arbor hole. A wheel dresser is included with the R1S.

To dress the wheels, with the unit running, open the wheels slightly and insert the wheel dresser provided, between the wheels. Close the wheels on the dresser until a slight pull is felt, and move the dresser back and forth and side to side between the wheels until they once again have a smooth, parallel surface.

Installing/changing wheels - Stripping wheels for the R1S must be ordered separately. See wheel selection guide in the ordering information section.

To change wheels remove the guard and the nuts on the ends of the upper and lower shafts.

NOTE: The lower shaft has a left hand thread and the upper shaft has a right hand thread. Slide the old wheels off the shaft and replace with the new wheels and secure the nuts back on the shafts.

If replacing standard wheels with any of the beveled (BEV) wheels, the BEV wheels are a press fit on the shafts as they are longer than the standard wheels. The nuts are not used with BEV wheels.

General maintenance - Clean the unit regularly to remove insulation dust, etc.

Oil motor and gear box on the R1S (Gits oil fitting on

MODEL R1S FINE MAGNET WIRE STRIPPER

front of gear box) with 3 to 5 drops of SAE No. 10 oil, once a week or after 40 hours of running time, whichever comes first.

TROUBLE SHOOTING:

PROBLEM: Machine will not strip wires.

SOLUTIONS:

- 1) Check that wheels have been properly dressed.
- 2) Check that proper wheel grade is being used.

PROBLEM: Machine breaks wires.

SOLUTIONS:

- 1) Check that wheels have been properly dressed.
- 2) Check for excess pressure on the wire.
- 3) Check that wheels are not too close together.
- 4) Check that wires are not kinked.
- 5) Check that proper wheel grade is being used.

PROBLEM: Machine will not run.

SOLUTION: Check for stripped gears.

SYMBOLS

GROUND LOCATION



This protective Earth ground label is located inside the housing beside the ground wire. This wire is connected to the Power Supply Cable and is wired back through the Mains supply to ground.

CAUTION LABEL



Refer to the operating instructions before using this unit. High voltage is inside this unit and power must be disconnected before servicing.

ON/OFF LABEL



This is the ON/OFF switch. Press I for on and press O for off. This switch is also the anti-start switch. In case of power outage, this switch must be reset for the unit to operate.

IMPORTANT SAFETY INSTRUCTIONS

IMPORTANT! DO NOT OPERATE MACHINE UNTIL YOU HAVE READ THOROUGHLY, AND UNDERSTAND COMPLETELY, ALL PRECAUTIONS, INSTRUCTIONS AND INFORMATION ON THESE PAGES. THIS MANUAL CONTAINS IMPORTANT SAFETY AND OPERATING INSTRUCTIONS. IT SHOULD BE RETAINED WITH THE MACHINE FOR FUTURE REFERENCE.

SAFETY PRECAUTIONS - MECHANICAL

! DO NOT OPERATE UNIT WITHOUT GUARDS IN PLACE OR WITH DAMAGED GUARDS.

! DO NOT DEFEAT ANY OF THE SAFETY FEATURES.

! DO NOT PLACE FINGERS OR APPENDAGES NEAR MOVING PARTS OR IN OR NEAR OPENINGS IN GUARDS.

SAFETY PRECAUTIONS - ELECTRICAL

! ALWAYS UNPLUG UNIT FROM POWER SUPPLY PRIOR TO ANY MAINTENANCE.

! DO NOT RUN UNIT WITH INCORRECT LINE VOLTAGE.

! NEVER RUN MACHINE WITH DAMAGED OR WORN POWER CORD.

! NEVER MODIFY THE PLUG PROVIDED. IF IT WILL NOT FIT INTO THE OUTLET, HAVE THE PROPER OUTLET INSTALLED BY A QUALIFIED ELECTRICIAN.

GROUNDING INSTRUCTIONS. Grounding provides a common return path for electric current to reduce the risk of electric shock. This machine is supplied with an electric cord with an 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.

Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a licensed electrician if in doubt as to whether the machine is properly grounded.

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SAFETY FIRST - USE BEST PRACTICES

ALWAYS USE SAFETY GLASSES. Everyday eyeglasses only have impact resistant lenses; they are NOT safety glasses. Also use face or dust mask if cutting operation is dusty.

REMOVE ADJUSTING KEYS AND WRENCHES.

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

KEEP WORK AREA CLEAN. Cluttered areas and benches invite accidents. Always leave at least 12" (305 mm) of space around all sides and top of unit.

DON'T USE IN DANGEROUS ENVIRONMENTS.

Do not use or locate machine in high-humidity environments, or expose to rain. Keep work areas well lighted.

WEAR PROPER APPAREL. Do not wear loose clothing, such as gloves, neckties, rings, bracelets, necklaces or any other clothing or jewelry that might get caught in moving parts. This is not an all-inclusive list. Wear protective hair covering to contain long hair. Non-slip footwear is recommended.

DON'T OVERREACH. Maintain proper footing and balance at all times.

MAINTAIN BLADES WITH CARE. Keep blades sharp and clean for optimal performance. Follow instructions for lubricating and changing blades and all accessories.

DISCONNECT MACHINE FROM POWER SUPPLY.

Unplug the unit before servicing and when changing accessories.

DO NOT EXCEED THE UNIT'S MAXIMUM MATERIAL SPECIFICATIONS. Eraser's warranty will be null and void if machine has been used in any manner that is contrary to these instructions.

CHECK FOR DAMAGED PARTS. Before continued use of the machine, the guard and all moving parts

should be carefully inspected to ensure that nothing is damaged.

Ensure proper alignment of moving parts. Check for any binding of moving parts, breakage of parts, and any other condition(s) that may affect operation. Any damaged part(s) should be properly repaired or replaced prior to any continued use of the machine.

ONLY ALLOW TRAINED AND QUALIFIED PERSONNEL TO OPERATE UNIT. Always keep these instructions within reach of the machine.

USE RECOMMENDED ACCESSORIES ONLY. Consult this operating manual for recommended accessories. Use only parts supplied by The Eraser Company, Inc. Use of improper accessories will void Eraser's warranty and may increase risk of injury.

ALL REPAIRS SHOULD BE PERFORMED BY AN ERASER COMPANY REPRESENTATIVE ONLY.

Unauthorized disassembly of machines will void Eraser's warranty.

WHEN USING MACHINERY, ALL SAFETY PRECAUTIONS – INCLUDING, BUT NOT LIMITED TO, THOSE LISTED ABOVE - SHOULD BE FOLLOWED TO REDUCE THE RISKS OF FIRE, ELECTRIC SHOCK, AND PERSONAL INJURY, AND DEATH.

IMPORTANT: NO LIABILITY WILL BE INCURRED BY THE ERASER CO. FOR INJURY, DEATH, OR PROPERTY DAMAGE CAUSED BY A PRODUCT WHICH HAS BEEN SET UP, OPERATED, AND/OR INSTALLED CONTRARY TO ERASER'S WRITTEN OPERATING MANUAL, OR WHICH HAS BEEN SUBJECTED TO MISUSE, NEGLIGENCE, OR ACCIDENT, OR WHICH HAS BEEN REPAIRED OR ALTERED BY ANYONE OTHER THAN THE ERASER COMPANY, OR WHICH HAS BEEN USED IN A MANNER OR FOR A PURPOSE FOR WHICH THE PRODUCT WAS NOT DESIGNED.

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