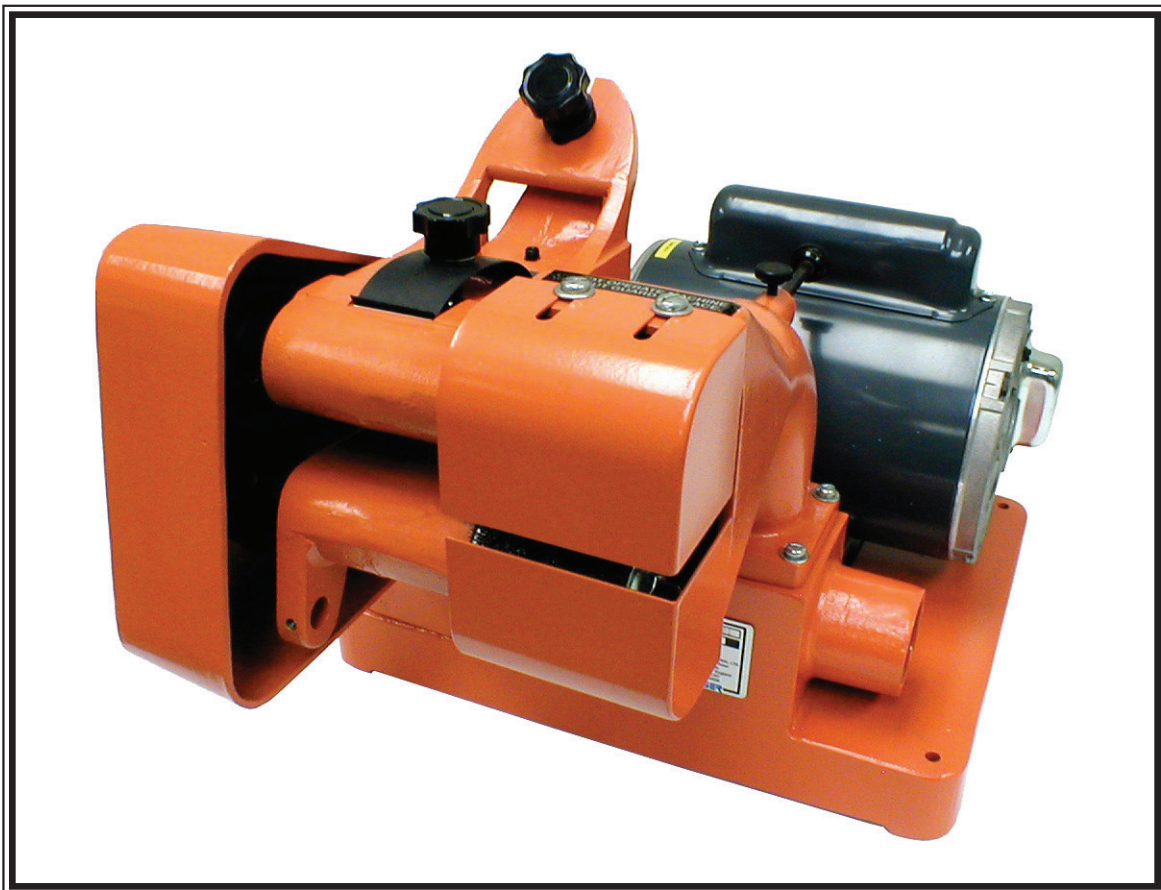




Operating Manual

Please Read Before Operating Unit



Model E200 Heavy Duty Wire Stripper

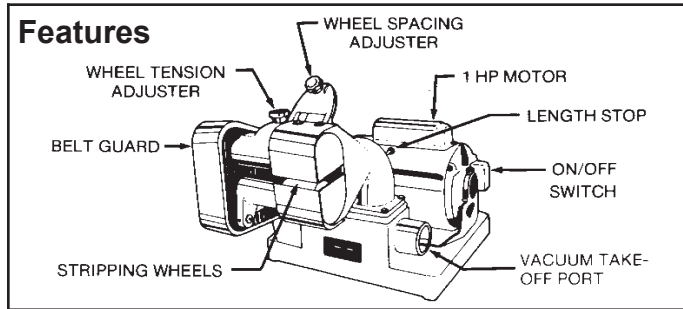
Service and All Spare Parts Available

The Eraser Company, Inc.
PO Box 4961/ Oliva Drive
Syracuse, NY 13221, USA

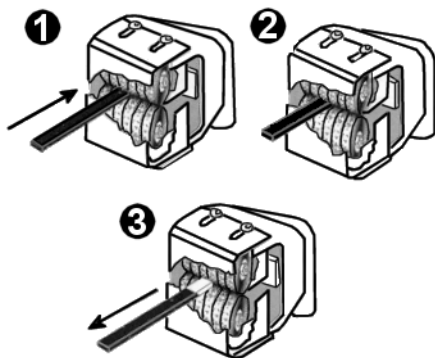
Phone: (315) 454-3237
Fax: (315) 454-3090
Website: www.eraser.com
E-mail: info@eraser.com

Wire Stripper for Large Magnet and Enamel Wires

Heavy-duty for continuous operation



Operation



The heavy duty wire stripper of robust construction for demanding applications and production line stripping of magnet, enamel and film insulated wires of sizes between 1 AWG and 20 AWG (7.34 – 0.81mmø). Model E200 will strip most types of film insulation including varnish, enamel, ML and Dayglass, polyester, glass, resin, etc. from round and rectangular wires.

The powerful 1 HP motor drives two wire stripping brushes at high speed to quickly remove insulation. More than a single wire can be stripped at one time and the full 2" (51mm) width of the wheel can be used. Accurate wheel space and tension regulators insure insulation is completely removed without reducing the diameter or cross sectional area of the wire being stripped. Only these two adjustments are required to set up the machine for a wire size. An adjustable integral length stop insures consistent strip lengths in critical applications. The stripping brushes are positively driven by a toothed drive belt, eliminating stalling, belt slippage, etc.

Wire brush wheels are available either in 2" (51mm) wide face versions for quick easy changing or as sections permitting brushes to be arranged should part of a wheel wear. Sectional brushes, if rearranged, have a longer life than wide face brushes. Fiberglass stripping wheels are available for the smaller wires and these strip the wire by generating frictional heat. The "nap" of the brush wipes away the insulation. The wire is left polished and neither flattened nor contaminated. Fiberglass wheels should be dressed with the custom AR2701 wheel dresser to remove high spots and grooves and extend wheel life.

A dust take off port is included on the machine, and in the production environment it is recommended that a dust collection unit be used.

SPECIFICATIONS

Wire sizes 1 - 20 AWG (7.34 - 0.81mmø) or square wire up to 1/4" x 1/4" (6.35mm x 6.35mm). For rectangular wire, the maximum wheel opening is 1/4" (6.35mm) and the maximum material width is 2" (50.8mm)
 Strip length:
 With mini stop 1/2" - 2-3/4" (12.7 - 69mm)
 With regular stop 1" - 3-1/2" (25.4 - 89mm)
 Dust take-off port 1-5/8" (42mmø) I.D., 2" (51mmø) O.D.

ORDERING INFORMATION

AR1111 (E200).....Heavy-duty wire stripper 120V 60Hz

Replacement wheels, Single wire brush sections (order 16 to make one set)

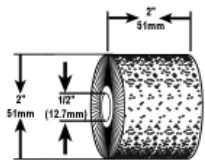
Replacement wheels, Wideface wire brush sections (order two per machine)

Wire brush wheel grades (Section brushes):

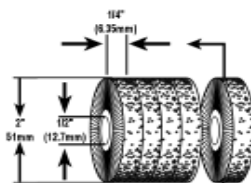
- AC2006.....(for small wires) manufactured from 0.006" (0.15mmø) diameter steel wire-fine
- AC2007.....(for general purpose) manufactured from 0.008" (0.20mmø) diameter steel wire-medium
- AC2010.....(for large wires) manufactured from .0118" (0.30mmø) diameter steel wire-medium/coarse
- AC2011.....tured from 0.014" (0.36mmø) diameter steel wire-coarse

Wire brush wheel grades (Wide face brushes):

- AC2069.....(for small wires) manufactured from 0.006" (0.15mmø) diameter steel wire-fine
- AC2042..... (for general purpose) manufactured from 0.008" (0.20mmø) diameter steel wire-medium
- AC2070..... (for large wires) manufactured from 0.0118" (0.30mmø) diameter steel wire-medium/coarse
- AC2071.....(for large wires with heavy insulation) manufactured from 0.014" (0.36mmø) diameter steel wire-coarse



Wideface Brushes



Section Brushes

2" (51mm) Wide brushes made by stacking eight 1/4" (6.35mm) sections on each spindle.

Service and spare parts available.

MODEL E200 MAGNET WIRE STRIPPER OPERATING INSTRUCTIONS

SET-UP:

To install the wheels, loosen the screws securing the top and bottom wheel guards, and remove the guards. This will expose the spindle nuts at the end of each shaft, holding the wheels in place. Remove the nuts.

NOTE: The upper spindle contains a right hand thread nut, and the lower spindle contains a left hand thread nut. Slide the wheel on the shaft.

NOTE: If using sectional wire wheels or nylon wheels, stack 8 wheels on each shaft. Replace the spindle nuts and the wheel guards.

Bolt the unit securely to the bench, using the holes in the base.

The E200 has a wheel spacing adjusting knob mounted on the top of the unit at an angle to the front, and a wheel tension adjusting knob, located with its tension spring on the upper arm of the casting. The wheel spacing knob allows the operator to adjust the spacing between the wheels to accommodate different sizes and types of wire. The tension adjusting knob allows the operator to control the amount of pressure the wheels exert on the wire while stripping. Do not over tighten, as damage to the machine will occur.

In addition, the E200 incorporates a strip length stop. Located at the back of the dust funnel, the strip length stop can be pushed in or pulled out to achieve longer or shorter strip lengths. The stop is held in place by the cap screw. The shortest strip length that can be achieved with the strip length stop is 1/2" (12.7mm) with the mini-stop.

The correct settings of the spacing and tension adjusting knobs and strip length stop are best found by stripping a few pieces of the desired wire. Plug the unit into a 120V, 60Hz power supply.

OPERATION:

CAUTION: Be sure the unit is securely bolted to the bench before operating. After ensuring that the wheel guards are in place and secured, turn the unit on. Using the wire to be stripped as a guide, adjust the wheel spacing using the wheel spacing adjusting knob, until the wheel opening is

greater than the diameter or cross-section of the wire. The wheel spacing adjusting knob should be secured by the set screw, to preserve the desired setting, once found. It is advisable to keep some degree of tension on this screw at all times. Now, turn the wheel tension adjusting knob counter-clockwise to release all tension on the wheels. Model E200 can be used to comb out coaxial braid. Adjust the wheel spacing to be equal to the diameter of the coaxial cable over the braid. Release all tension on the wheels by turning the wheel tension adjusting knob counter-clockwise.

NOTE: The toothed drive belt is factory set for tightness with the wheels fully opened, and it should not need adjusting over the entire range of wheel spacing. If, over time, the belt loosens or slips due to belt or wheel wear, it may be retightened. To do this, loosen the 4 screws holding the motor to the base of the unit, and slide the motor back slightly until the belt tightens. Retighten the motor mounting screws securely.

With the unit running, insert the wire to be stripped between the wheels, maintaining a firm grasp on the wire. Slowly, using the wheel spacing adjusting knob, bring the wheels together until they begin to contact and strip the wire on both sides. Then adjust the tension slowly, using the wheel tension adjusting knob, until the wire just begins to pull. Finally, adjust the strip length stop for the desired strip length.

If stripping irregular wire, such as rectangular sections, adjust the wheel tension for the two longest sides first. It may be necessary to readjust the tension to strip the two shorter sides easily. Multiple wires may be stripped on the units. The wheel spacing should be the same as for a single wire, but the wheel tension should be less when stripping multiple wires.

Once all adjustments have been set, the unit may be used for continuous stripping, as its 1 HP motor is continuous rated. Trial and error will determine the best operator technique for different wire sizes and types. However, to increase wheel life, it is suggested that the wire be inserted from the right side of the wheels until it hits the length stop, and

pulled out. Utilizing the entire 2" face width of the wheels will give longer wheel life than stripping on the same area of the wheels. It may be necessary to twist or turn the wire slightly to achieve stripping all the way around. When combing coax braid on Model E200, it is advisable to start from the end of the cable and work in towards the outer jacket insulation, turning the cable frequently. This will help the nylon wheels to easily comb the coax braid without knotting.

MAINTENANCE:

If using FybRglass wheels to strip small wires 20 AWG and smaller, it will be necessary to dress the wheels periodically to remove grooves. The AR2701 FybRglass wheel dresser should be used. To dress wheels, open them slightly, insert the dresser between them, and close the wheel spacing until the dresser begins to sand the wheels smooth. Continue dressing until grooves have been removed and the face of both wheels is smooth. Frequent dressing will increase the life of FybRglass wheels significantly.

Wire wheels and nylon wheels require no maintenance. However, if using sectional wheels, the position of the wheels on the shafts may be changed. Move worn sections to the ends of the wheel, to even out wear and extend the life of the individual sections.

Keep the unit clean and free of insulation dust at all times. Periodically add a drop or two of oil to the oil caps on the motor.

No other maintenance is required.

TROUBLESHOOTING:

PROBLEM: Wheel spacing knob difficult to turn.

SOLUTION:

1) Loosen set screw that holds the setting in place.

PROBLEM: Wire will not strip.

SOLUTIONS:

- 1) Check for worn wheels and dress or replace if necessary.
- 2) Check that there's enough tension on the wire, and adjust if necessary.
- 3) Try a coarser grade of wheel.
- 4) Check wheel spacing.

PROBLEM: Drive belt slips or loosens.

SOLUTION:

- 1) Move motor back slightly to tighten belt on pulleys.

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