

Operating Manual

Please Read Before Operating Unit



Models C200 & C300 Rotary Head Wire Strippers and Twisters

Service and All Spare Parts Available



Always Moving Forward®



ROTARY HEAD WIRE STRIPPERS & TWISTERS



Model C200



Model C300

SPECIFICATIONS

Stripping Heads On Both Units

Maximum wire diameter over insulation 0.265"
(6.73mmø)

Minimum wire diameter over insulation 0.028"
(0.071mmø) depending on rigidity of wire

Maximum conductor diameter 0.219"
(5.5mmø)

Maximum strip length:
with strip stop..... 2 1/2" (63.5mm)
without strip stop..... Depends on construction
of wire or cable

Minimum strip length 1/32" (0.79mm)
depending on insulation thickness

Decibel rating..... 54 dB(A)

Power Fused input via IEC connector
120V, 60 Hz

Size:

(C200)..... 8 1/4" x 5 3/4" x 7 1/2"
(210mm x 146mm x 191mm)

(C300)..... 11 1/4" x 13 3/4" x 6 1/2"
(286mm x 349mm x 165mm)

Weight:

(C200)..... 11 lbs. (5 Kg)

(C300)..... 16 lbs. (7.3 Kg)

ORDERING INFORMATION

AR4901 (C200)..... Single head twin blade rotary
wire stripper and twister 120V, 60 Hz

AR9501 (C300)..... Triple head twin blade rotary
wire stripper and twister 120V, 60 Hz

Wire Guide..... Order from wire guide selection table

IR0085 Complete set of 22 wire guides

IR0023 Single replacement carbide blade

IR8631 Set of two replacement carbide blades

IR8632 Set of six replacement carbide blades

PG0373 Replacement blade pivot pin

IR0705 Replacement blade alignment tool

TG2478..... Replacement faceplate/hex key wrench

PR3663..... Replacement blade setting screwdriver

IR0703 Complete faceplate assembly

PR2726..... Replacement fuse

TR0705..... Replacement alignment tool

For C200 Only

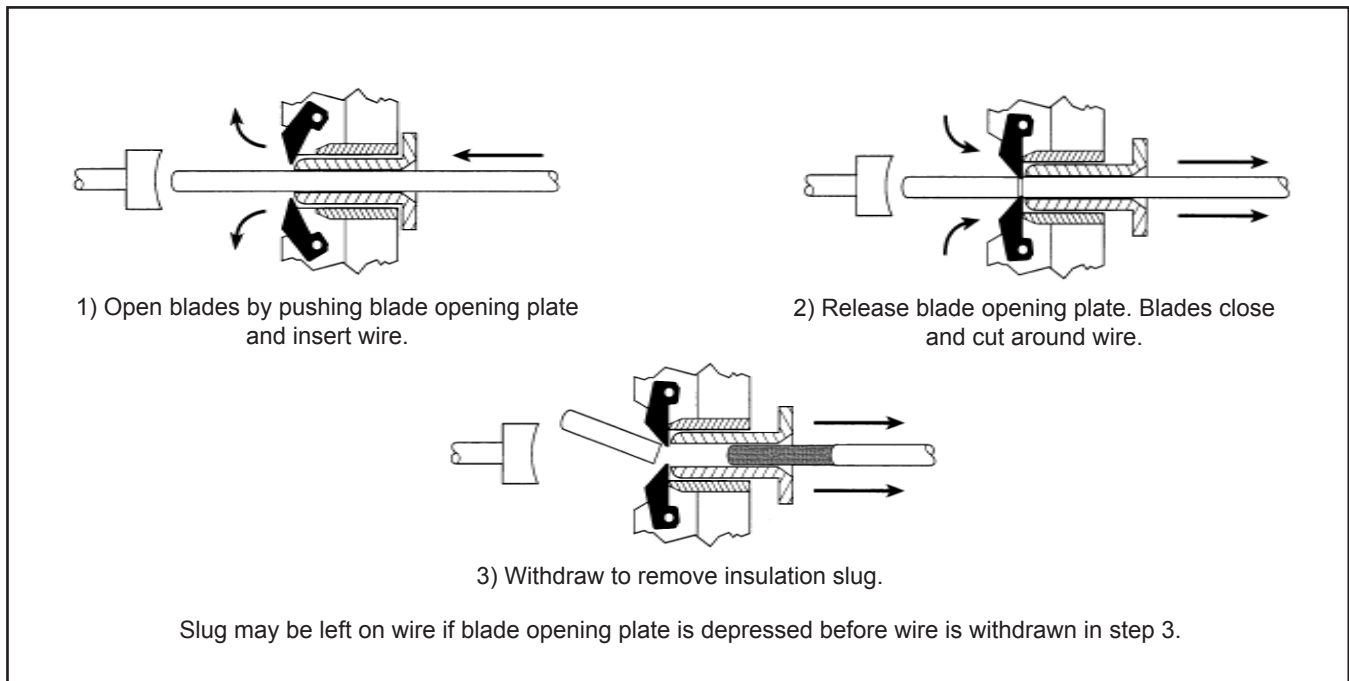
PG0699 Replacement drive belt

For C300 Only

PG0739 Replacement motor drive belt

PR3660..... Replacement head drive belt
(two required per machine)

OPERATION



WIRE GUIDE ORDERING INFORMATION

Single Stage Strip

To select a wire guide measure the outside diameter of the wire to be stripped and select the appropriate wire guide from the chart.

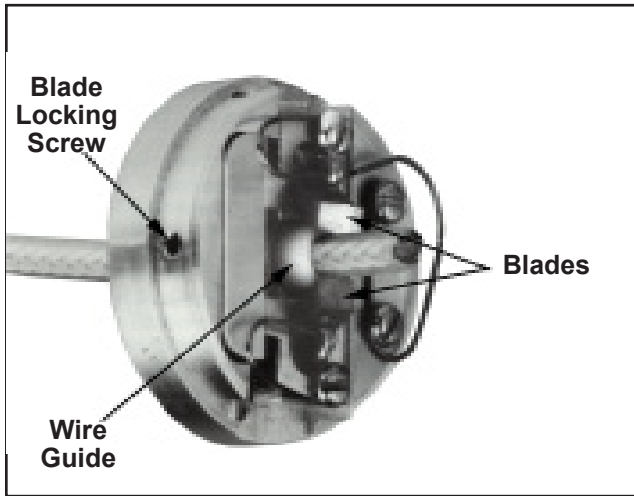
Three Stage Strip

Two wire guides within the outside diameter measurement range are required for stages one and two. For stage three, measure the diameter of the cable 5/8" (15.9mm) from the point at which the strip begins on the inner wire. This measurement may be the diameter over the braid, outside jacket or insulated inner wire depending on relative strip lengths. Wire guide selection may vary if a cable is not stripped in the sequence shown on the next page.

IN MANY NON-CRITICAL APPLICATIONS ONE SIZE WIRE GUIDE WILL STRIP SEVERAL WIRES OF DIFFERENT DIAMETERS. HOWEVER, THIS CAN ONLY BE DETERMINED BY TESTING. SEND US 3 FEET OF YOUR WIRES AND WE WILL RECOMMEND THE MINIMUM NUMBER OF GUIDES REQUIRED.

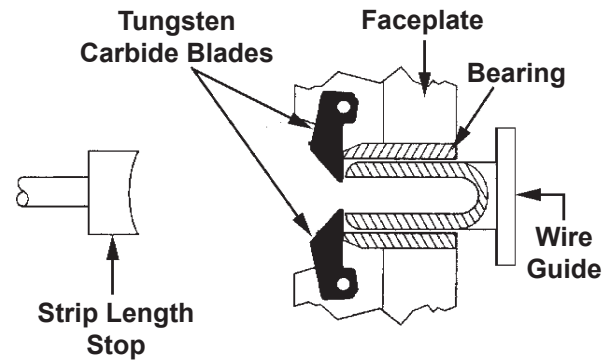
| WIRE GUIDE SELECTION TABLE | | |
|----------------------------|---------------------------------------|-----------------------------------|
| Order # | Outside Diameter of wire/cable inches | Outside Diameter of wire/cable mm |
| IR2301 | 0.022-0.020 | 0.56-0.51 |
| IR2302 | 0.029-0.023 | 0.74-0.58 |
| IR2303 | 0.036-0.030 | 0.91-0.76 |
| IR2304 | 0.046-0.037 | 1.17-0.94 |
| IR2305 | 0.056-0.047 | 1.42-1.19 |
| IR2306 | 0.064-0.057 | 1.63-1.45 |
| IR2307 | 0.072-0.065 | 1.83-1.65 |
| IR2308 | 0.083-0.073 | 2.11-1.85 |
| IR2309 | 0.095-0.984 | 2.41-2.13 |
| IR2310 | 0.105-0.096 | 2.67-2.44 |
| IR2311 | 0.119-0.106 | 3.02-2.69 |
| IR2312 | 0.130-0.120 | 3.30-3.05 |
| IR2313 | 0.143-0.131 | 3.63-3.33 |
| IR2314 | 0.155-0.144 | 3.94-3.66 |
| IR2315 | 0.167-0.156 | 4.24-3.96 |
| IR2316 | 0.185-0.168 | 4.70-4.27 |
| IR2317 | 0.199-0.186 | 5.05-4.72 |
| IR2318 | 0.215-0.200 | 5.46-5.08 |
| IR2319 | 0.228-0.216 | 5.79-5.49 |
| IR2320 | 0.240-0.229 | 6.10-5.82 |
| IR2321 | 0.251-0.241 | 6.38-6.12 |
| IR2322 | 0.260-0.252 | 6.60-6.40 |

ROTARY HEAD WIRE STRIPPERS & TWISTERS

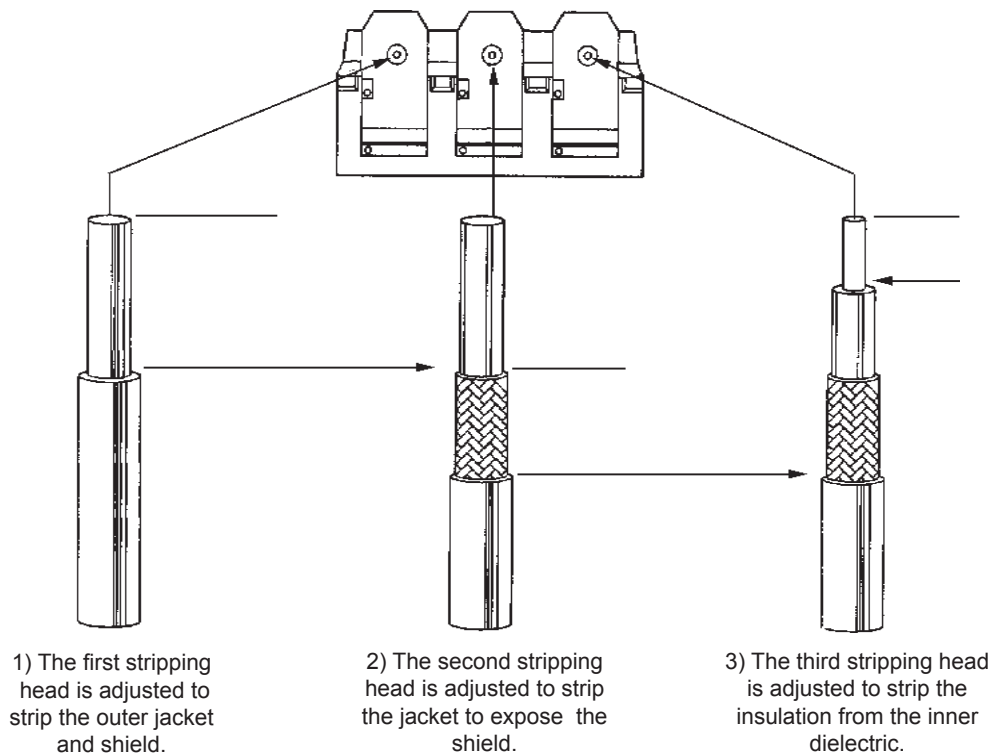


Faceplate Assembly

Exploded View of the Stripping Head



Three Stage Stripping of Coaxial Cable (C300)



All strip lengths are adjustable, the stripping sequence may vary depending on the construction of the wire or cable.

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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.

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.

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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.

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OPERATING INSTRUCTIONS

SET-UP:

NOTE: Information is the same for both units unless otherwise stated. Instructions are given

for the set up of one head but may be carried out three times for the C300. The C300 can be set up with three different wire guides to strip three different hook-up wires, or it can be set up to 3-stage strip a coaxial cable. If setting up for coax, refer to the diagram on the previous page and set the heads and strip stops in the order shown to match to the levels of strips on the cable.

Both units ship with a blade setting screwdriver, a blade alignment tool, a faceplate 1/16" hex key wrench and a power cord with IEC connector. The C200 also includes one replacement drive belt. The C300 includes two replacement head drive belts and one replacement motor drive belt. Wire guides for both units must be purchased separately.

Place the unit on the work bench but do **NOT** connect to the electrical supply.

Remove the plexiglass guard by gently squeezing it on both sides and lifting up. Loosen the bottom thumb screw on the blade opening plate to allow the plate to tilt forward and allow access to the faceplate. It is not necessary to remove the thumb screws. NOTE: The blade opening plate should never be removed from the unit unless it is necessary to replace a broken plate.

Insert the wire guide into the faceplate. To facilitate easy adjustment of the strip length stop and blades, strip (by hand) a piece of the wire to be stripped to the length required. Depress the blade opening plate and insert the sample stripped wire through the wire guide. To adjust the strip length stop, loosen the thumb screw behind the belt guard and move the stop to the desired point and re-tighten the thumb screw. The strip length is measured from the strip length stop to the brass insert on the inside of the faceplate, and will be accurate except for variations caused by the amount of blade travel on different sizes of wires. The strip length stop may require more small adjustments once the unit is completely set-up and test strips are made.

The strip length stop contains a large collar on one end and a small diameter on the other end. For normal use the large end provides a larger target for the wire to contact when making longer strips. However, when using very small wires or short strip lengths, the collar on the strip length stop

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may interfere with the opening of the blades. If this occurs, use the faceplate/length stop wrench provided to remove the collar off the rod. The rod may then be used alone as a strip length stop. If the rod end still interferes, then loosen the thumb screw and remove rod. On the **C200** the rod is removed through the back of the machine. On the **C300** the rod is removed through the front of the machine. After removing, reverse the rod so that the small diameter end is utilized and replace the rod.

Once the strip length stop has been adjusted, it is necessary to adjust the blades in the faceplate. Locate the portion of the faceplate which extends out from the head towards the strip length stop. Rotate the complete head until the blade locking set screw and slotted head blade adjusting screw are visible.

It is not necessary to remove the faceplate assembly from the machine to make blade adjustments, however, it may be removed if desired. Blade adjustments with the faceplate assembly in the machine or out requires the same procedure. To remove the faceplate assembly, use the faceplate/hex key wrench provided and loosen the 3 set screws on the head which hold the faceplate. Push on the faceplate from the back, towards the blade opening plate (front of machine), and remove it.

Loosen the blade locking set screw using the faceplate/hex key wrench provided. Insert the sample stripped wire through the wire guide, keeping the wire guide even with the edge of the brass bushing so that the blades remain closed. Using the blade setting screwdriver, turn the slotted head blade adjusting screw until the blades come in and almost touch the conductor of the wire to be stripped. Tighten the blade locking set screw. Replace the faceplate into the head if it has been removed.

NOTE: Always loosen the blade locking set screw before making adjustments and tighten after adjustments have been made.

Adjust the blade opening plate for limits on inward and outward movement. The bottom thumb screw should be set so that the plate tilts forward just enough to clear the wire guide. Push the plate until the wire guide causes the blades to open and insert the sample stripped wire. Adjust the top thumb screw on the plate so that when the plate is pushed

forward, the blades open just enough to admit the portion of the wire to be stripped.

NOTE: When using the largest wire guide sizes, the top thumb screw position is critical to prevent the blades from cutting into the wire guide while stripping.

Tighten all jam nuts against the plate to hold the screws in position. Replace the plexiglass guard on the head by squeezing the sides gently and inserting on the unit. Be sure the guard is seated on the two pins at the top of the rear head block.

It is recommended that the unit be bolted to the bench to prevent forward motion while withdrawing wire.

Insert the power cord into the IEC connector at the back of the unit and plug into the appropriate power supply.

C200 ONLY. The C200 is factory-set for counter-clockwise rotation. When stripping stranded wires, the spinning insulation slug will also serve to tighten the twists of the strands. It may be important that the unit rotate in the same direction as the lay of the wire strands. To accomplish this, the unit may be changed to clockwise rotation. To change the rotation, remove the strip length stop and belt guard. Noting the direction of the twist in the drive belt, remove the belt from the rear groove in the head and twist it in the reverse direction. Place the belt back in the head groove. Replace the belt guard and strip length stop.

OPERATION:

! CAUTION: DO NOT OPERATE UNIT UNLESS ALL GUARDS ARE PROPERLY INSTALLED.

Turn the unit on and make several test strips to test adjustment. To strip a wire, push the blade opening plate in, insert the wire up to the length stop and release the plate until the blades close and cut around the wire. Withdraw the wire to remove the insulation slug. The slug will drop down and be deflected out of the front of the unit.

It may be necessary to readjust the strip length stops and blade adjustments to "fine tune" the strips. Turn the unit off and repeat prior steps as necessary.

If desired, the slug may be left on the wire. To do

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this, push the blade opening plate back in before withdrawing the wire.

BLADE REPLACEMENT:

To replace blades, remove the plexiglass guard and faceplate assembly from the head by loosening the 3 set screws. Loosen the 2 pan head screws that hold the blade springs and remove the springs. Loosen the blade locking screw and lift the adjusting block out of the faceplate. Remove the 2 pan head screws holding the carrier spring, and remove the spring and retaining plate. Lift the blade carrier assembly out of the faceplate. Remove the blade adjusting spring and blade adjusting screw from the blade carriers.

NOTE: The blade adjusting screw has both left and right hand threads. Push the blade pivot pins out of the carrier blocks and the blades will fall free. Insert new blades and re-install the blade pivot pins. Thread the unslotted end of the blade adjusting screw into the right hand blade carrier so the screw just shows out the right end of the carrier. Re-install the blade adjusting spring over the blade adjusting screw. Thread the left hand blade carrier onto the slotted end of the screw until the carrier assembly drops back into the faceplate. Re-install the adjusting block, blade springs, retaining plate and carrier spring, but leave the carrier spring unhooked.

The blade must now be centered. To center the blade, loosen the centering locking screw on the front of the faceplate. Back out the centering screw. Using the blade alignment tool, insert the "pin" end of the tool through the faceplate in the same manner as a wire guide. Turn the blade adjusting screw until both blades make contact with the pin on the alignment tool. Tighten the blade locking screw to hold the blades in place. Turn the centering screw until it contacts the blade adjusting screw. Tighten the centering locking screw on the front of the faceplate. Hook the carrier spring. Loosen the blade locking screw and use the blade adjusting screw to back off the blades to allow the blade alignment tool to drop

free. Tighten the blade locking screw and re-install the faceplate into the unit.

BELT REPLACEMENT:

C200: To replace the drive belt remove the strip length stop and belt guard. Note the direction of the twist of the belt. Remove the old belt by pulling it from the head groove and working it off the motor pulley through the slot in the plate. It may be necessary to remove the rear panel of the unit to gain access to the motor pulley. Loop the new belt over the motor pulley, twist it 90 degrees in the same direction as the worn belt and loop the end over the rear groove in the head. Replace the rear panel (if necessary), belt guard and strip length stop.

C300: There are two different size belts on the C300. There are two larger head drive belts and one smaller motor drive belt.

To replace the motor drive belt remove the strip length stop, the belt guard and the base plate of the unit. Sight the motor pulley through the hole behind the first head. Remove the old belt and install the belt from the motor pulley to the rear of the first head pulley. Replace the strip length stop, the belt guard and the base plate.

To replace the head drive belts remove the strip length stop and the belt guard. Remove the old belts and install the new belts from the front of the first head pulley to the front of the middle head pulley, then from the rear of the middle head pulley to the rear of the third head pulley. Replace the strip length stop and the belt guard.

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TROUBLE SHOOTING

PROBLEM: Wire or cable does not strip cleanly.

SOLUTIONS:

- 1) Readjust blades and be sure blade locking screw is tight.
- 2) Check that proper wire guide size is being used. Refer to ordering information for instructions on selecting wire guides.
- 3) Check for worn blades and replace if necessary.
- 4) Check that blade springs are not broken or separated from blades.

PROBLEM: Unit does not function, switch does not light.

SOLUTIONS:

- 1) Check power supply.
- 2) Check fuse and replace if blown.

PROBLEM: Switch lights, motor runs, but heads do not turn.

SOLUTIONS:

- 1) Check that the motor pulley is tightened securely on the motor shaft and is aligned with the rear groove in the first head.
- 2) Check for broken belts and replace.

PROBLEM: Strands of stranded wire do not twist.

SOLUTION:

Check that unit is set for proper rotation (C200 only)

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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

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