Operating Manual
Please Read Before Operating Unit

MODEL L (SERIES) WIRE STRIPPERS & LEAD CLEANERS

Please Call for Service or Spare Parts

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SPECIFICATIONS

WIRE STRIPPING

Wire Size:
- L2S & L4 ............................................... 29-8 AWG (0.28-3.25mmø)
- PL3S ................................................. 29-14 AWG (0.28-1.63mmø)
- L2AS & L4A ......................................... 8-4 AWG (3.25-5.18mmø)

Maximum Strip Length:
- L2S .... 3-1/2” (89mm); 1-5/16” (33.3mm) with strip length stop
- L2AS .... 1-1/2” (38mm); 1-5/16” (33.3mm) with strip length stop
- PL3S ............. 1-3/8” (34.9mm) no strip length stop available
- L4 & L4A .......... 3” (76.2mm) no strip length stop available

COMPONENT LEAD CLEANING

Lead Diameter .................. 0.0112”-0.114” (0.28-2.90mmø)
Cleaning length .................. Up to 2-1/2” (63.5mm)
Close-up cleaning ............... Flush with component body or length stop permits precise cleaning of only part of lead

ALL APPLICATIONS

Decibel rating
- L2S, L2AS, PL3S ........................................... 58 dB(A)
- L4 & L4A ........................................... 100 dB(A)

Power
- L2AS ........................................... 1/15 HP motor, 120V 60Hz
- L2S, PL3S ........................................... 1/7 HP motor, 120V 60Hz
- L4, L4A.... Clean lubricated air up to 90 P.S.I. at 32 C.F.M.

Size
- L2S, L2AS, PL3S ........................................... 11” x 6” x 7-1/4”
  
- L4, L4A ........................................... 1-3/4” diameter x 8-1/4” long
  
- (44mmø x 210mm)

Weight
- L2S, L2AS, PL3S ........................................... 11 lbs. (5 Kg)
- L4, L4A ........................................... 2 lbs. (910g)

ORDERING INFORMATION

BENCH Rotary Insert Wire Stripper
- AR2051 (L2S) ........................................... 120V 60Hz
- AR2071 (L2AS) ........................................... 120V 60Hz

PORTABLE Rotary Insert Wire Stripper
- AR2061 (PL3S) ........................................... 120V 60Hz
- AR0180 (L4) ........ Air operated; up to 90 P.S.I. at 32 C.F.M.
- AR0190 (L4A) .... Air operated; up to 90 P.S.I. at 32 C.F.M.

INSERTS ........................................... see insert selection guide

REPLACEMENT PARTS

TR0630 ........................................... Collet nut for chuck assembly IR0104
TR5086 ........................................... Collet nut for chuck assembly IR0106
PR3878 ........................................... Double angle collet for chuck assembly IR0104
IR7823 ........................................... Sheath and shaft assembly for PL3S
PR0253 ........................................... Sheath for PL3S
PR0254 ........................................... Shaft for PL3S
TR8329 ........................................... Length Stop Rod
PG2508 ........................................... L1, L2S, PL3, L4 Wrench (2) Required
PR3742 ........................................... L2AS, L4A Wrench (2) Required
Most inserts are available in two grades of material - Heavy Duty and Tungsten Carbide tipped. Under normal use in a cost basis, the most expensive grade will give the best cost versus insert life (i.e. carbide is better than standard). Concave face permits easy wire entry, flat face permits stripping flush to the coil body and bullet nose permits stripping in confined areas.

<table>
<thead>
<tr>
<th>WIRE SIZE</th>
<th>HEAVY DUTY GRADE INSERTS</th>
<th>CARBIDE TIPPED INSERTS</th>
<th>MACHINE USED ON</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Concave Face</td>
<td>Flat Face</td>
<td>Bullet Nose</td>
</tr>
<tr>
<td>15-13 AWG (1.45-1.83mmø)</td>
<td>L33HC-IR1954</td>
<td>L33HF-IR1964</td>
<td>L33HB-IR1984</td>
</tr>
<tr>
<td>13-11 AWG (1.83-2.31mmø)</td>
<td>L38HC-IR1955</td>
<td>L38HF-IR1965</td>
<td>L38HB-IR1985</td>
</tr>
<tr>
<td>11-9 AWG (2.31-2.90mmø)</td>
<td>L34HC-IR1956</td>
<td>L34HF-IR1966</td>
<td>L34HB-IR1986</td>
</tr>
<tr>
<td>9-8 AWG (2.90-3.25mmø)</td>
<td>L37HC-IR1957</td>
<td>L37HF-IR1967</td>
<td>N/A</td>
</tr>
<tr>
<td>8-6 AWG (3.25-4.11mmø)</td>
<td>L39HC-IR1958</td>
<td>L39HF-IR1968</td>
<td>N/A</td>
</tr>
<tr>
<td>5-4 AWG (4.62-5.18mmø)</td>
<td>L40HC-IR1959</td>
<td>L40HF-IR1969</td>
<td>N/A</td>
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</tbody>
</table>

*“S” dimensions are determined by wire size to be stripped.*
IMPORTANT SAFETY INSTRUCTIONS
READ ALL 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.

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.
L SERIES MODEL WIRE STRIPPERS & LEAD CLEANERS
OPERATING MANUAL

SET-UP:

INSERT INSTALLATION:
Installation of the stripping insert into the collet is the same for all models except where specified.

Remove the guard. Models L2S and L2AS have a plastic guard. Models PL3S, L4 and L4A have a metal guard.

The collet has two parts. The first holds the stripping insert and is mounted on the motor shaft by use of a set screw. The second part screws onto the first part and varies the pressure on the insert to allow adjustability for different wire sizes. It is not necessary to remove the collet assembly from the motor shaft to install the stripping insert. Unscrew the front part of the collet from the insert holder. Slide the insert into the holder, aligning the slots in the insert with the slots in the holder.

On Models L2S, PL3S and L4, the insert should protrude 1/8" - 3/16" (3.1 - 4.8mm) from the front of the collet. Screw the front part of the collet back on and finger tighten. Slide a sample of the wire to be stripped into the insert. Use the collet adjusting wrenches in the flats on the collet to tighten the collet down until the sample wire is tight in the insert. Replace the guard.

On the L2AS and L4A, push the insert all the way in until it stops. There is a small flat on the rear of all 1/2” inserts used on these units. This feature will prevent the insert from slipping in the collet during stripping. The insert should be oriented so that the flat is aligned with the small set screw located on the outside of the collet. Push the insert into the collet until it seats on the inside shoulder of the collet, then tighten the set screw down on the flat using the Allen wrench provided with the unit. For proper operation, ensure that the stripping insert is seated on the shoulder inside the collet and the set screw engages the flat on the stripping insert.

STRIP LENGTH STOP:
Models L2S and L2AS only
Models L2S and L2AS have a strip length stop rod that protrudes from the motor shaft and is held in place by a small set screw on the motor shaft. Using the larger of the 3 Allen wrenches provided, loosen the set screw holding the collet assembly to the motor shaft, and slide the assembly off the shaft. Adjust the strip length rod to the desired position using the smaller of the Allen wrenches provided.

AIR SUPPLY:
Models L4 and L4A only
The L4 and L4A require a clean, lubricated air supply which can deliver 3 C.F.M. at 90 PSI. Attach an air fitting of the proper style to the end of the air hose to enable it to be connected to the air supply. If the optional PR0003 combination air/filter/lubricator is being used, the air hose of the L4 or L4A should be connected to the output side of this and the air supply connected to the other side.

! CAUTION: Never operate the L4/L4A at air pressure higher than 90psi.

OPERATION:
NOTE: Safety glasses or other suitable eye protection should be worn when using these units.

Models L2S, L2AS, PL3S:
The L2S, L2AS, and PL3S may be operated with either clockwise or counter-clockwise motor rotation. This feature facilitates longer insert life. When an insert begins to wear, reverse the rotation to utilize the opposite stripping edges of the insert. To change the direction of motor rotation, turn off power to the unit, and then press the switch located on the rear of the unit. Turn the unit on. Insert the wire into the stripping insert. The wire will strip while being pushed in, not while being withdrawn. If the wire does not strip, turn the unit off, remove the guard and use the collet adjusting wrenches to tighten the insert further. Replace the guard and try the wire again. Repeat this procedure as often as necessary until a satisfactory strip is achieved.

If using the strip length stop (models L2S or L2AS only) insert the wire until it butts against the stop, then withdraw. Once set, the unit may be used continuously.

OPERATION (PL3S Only):
! CAUTION: Do not bend the flexible shaft assembly tighter than a 4” radius. Permanent damage will result.

Keep the unit clean and free of insulation dust, and replace inserts when worn. No other maintenance is required.

Replace the collet assembly with stripping insert and the plastic guard.

After replacing the collet assembly and guards on the unit, connect the unit to the power supply.
Models L4, L4A
The L4 and L4A will only operate with counter-clockwise rotation. Depress the handle to start the unit and insert the wire into the insert. The wire will strip as it is being inserted, not as it is being withdrawn. If the wire does not strip, release the handle, remove the metal guard and use the collet adjusting wrenches to tighten the insert. Replace the guard and strip the wire again. Repeat this procedure as often as necessary until a satisfactory strip is achieved.

The L4 and L4A models have a slotted motor adjusting screw located on the bottom of the unit near the air intake end. The speed of the motor may be adjusted slightly by turning the screw.

MAINTENANCE:
Models L2S, L2AS, PL3S
Keep the unit clean and free of insulation dust, and replace inserts when worn. No other maintenance is required.

Model PL3S only
It may be necessary to replace the flexible shaft assembly periodically.

To replace the assembly unsnap the handpiece assembly from the flexible shaft assembly by pulling apart. Unscrew the motor coupling from the motor flange and remove the casing from the core of the flexible shaft. Remove the 4 screws attaching the motor flange to the motor and slide the flange ahead of the brass coupling.

NOTE: Be careful not to lose the spacers behind the flange washer.

Remove the brass coupling from the motor shaft by unscrewing the locking screw and sliding it off. Replace the new flexible core and casing and reverse the operations. When reinstalling the motor flange, be sure the flange washer and spacers are relocated correctly within the motor housing and the screw holes are properly aligned.

NOTE: When reinstalling the handpiece onto the flexible shaft assembly, the key on the core must align with the groove in the handpiece. It may be necessary to rotate the collet assembly to properly align the handpiece.

Models L4, L4A
The L4 or L4A Models should be lubricated DAILY with a turbine or spindle grade oil containing a rust inhibitor with a viscosity of 100 to 150 S.U.S. at 100° F. To lubricate, unscrew the air hose from the back of the unit and pour 2-3 drops of oil directly into the intake port of the unit. The handle hinge pin should also be lubricated periodically, using a drop of lightweight oil. Replace inserts when worn, and keep unit clean and free of insulation dust.

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 INSTRUCTION MANUAL, OR WHICH AS 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.

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.

ROTATION DIRECTION
Rotation of the head may be reversed by pressing this rotation switch.
TROUBLE SHOOTING:

PROBLEM: Wire does not strip
SOLUTIONS:
1) Check that insert size is correct for wire being stripped.
2) Tighten collet on insert.
3) Check that slots of insert are aligned with slots of collet.
4) Check that insert is pushed back far enough into the collet.
5) Check if insert is worn, and replace.

PROBLEM: Wire breaks when inserted
SOLUTIONS:
1) Loosen collet on insert.
2) Check that insert size is correct for wire being stripped.
3) Check that there are no kinks or bends in the wire. Wire must be straight going into the insert.

PROBLEM: Motor does not run (Models L4 and L4A only)
SOLUTIONS:
1) Check that air supply is adequate, 90 PSI, 3 C.F.M.
2) Check the motor adjusting screw on underside of unit to ensure it is open. This screw orients an internal air port.