



# Operating Manual

Please Read Before Operating Unit



## Automatic Wire Twister WT40

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# WT SERIES AUTOMATIC WIRE TWISTERS



## SET-UP:

To set up the WT40, install the custom holder/clamp into the front of the unit by using the Allen wrench. Be sure to align flat on holder clamp with set screw in the twisting head.

The WT40 operates only from a 120, 60Hz electrical supply. Plug the unit directly into the power supply and turn it on.

## PROGRAMMING:

Set the desired number of twists on the counter located on the front panel of the machine. To determine the setting, multiply the number of turns per inch required by the length in inches of the piece being twisted. (For example, 10 turns per inch required times 6" length of wires equals a counter setting of 60.)

To program the counter for the desired number of twists, depress the ← button. The second line will show the number being entered. Use the ↓↑ buttons to change the numbers. The ← button will advance which digit you are changing (indicated by flashing) so you can change large numbers by tens, hundreds, thousands, etc. When the desired count is reached, press the MODE button to accept the new number of twists to be made.

## CONTINUOUS OPERATION:

The WT40 may be run continuously without setting a number on the counter. To do this, program the counter for 0, depress the foot pedal and release it when the desired amount of twists have been completed.

## SPECIFICATIONS

### Wire size:

WT40..... Maximum bundle not to exceed equivalent of three stranded 14 AWG (1.63mmø) insulated wires

Twist length..... Up to 20'

Twist quantity..... Up to 999,999 twists per cycle

Twist speed....Variable from 0 to 26 turns per second

Decibel rating..... 60 dB(A)

Power ..... Input via fused IEC connector  
120V 50/60Hz

### Size:

Unit ..... 9-3/4" x 8-3/4" x 5-3/4"  
(248mm x 222mm x 146mm)

Foot pedal.....6" x 6" x 4-1/2"  
(152mm x 152mm x 114m)

Weight ..... 16.5 lbs. (7.5Kg)

## ORDERING INFORMATION

AR4240 (WT40).....Wire twister, not including custom holding/clamping device  
120V 50/60Hz

**NOTE:** The WT40 utilizes a custom built holding/clamping device. Send samples and specifications for quoting. To participate in the Eraser Certification Program (E.C.P), send 5 feet of each type of wire and twisting specifications to our Lab Technician. Download the E.C.P. form on our website or call your Product Specialist to request a copy.

# WT Series Automatic Wire Twisters - OPERATING INSTRUCTIONS

## OPERATION:

Set the variable twisting speed control knob to 20 or greater.

With the custom holder/clamp installed and the counter and twisting speed set, the unit is ready to use. Insert the wires to be twisted into the custom holder/clamp and depress the foot pedal. Hold the footswitch until preset programmed number of twists has been reached. The foot pedal must remain depressed until the end of the cycle. Releasing the foot pedal will stop the twisting action at any point during the cycle. When the pedal is pressed again, the cycle will resume. The operator has 1 to 2 seconds to release the foot pedal before the next twisting cycle begins.

**NOTE:** If footswitch remains depressed beyond the 1 to 2 second "time out" period, the next twisting cycle will begin automatically.

**IMPORTANT: THE MOTOR MUST BE COMPLETELY STOPPED BEFORE CHANGING THE TWIST DIRECTION. FAILURE TO DO THIS MAY RESULT IN DAMAGE TO THE UNIT.**

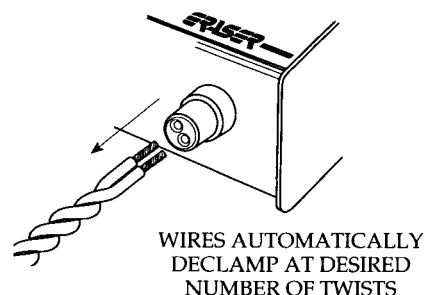
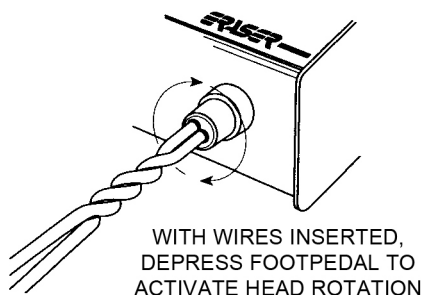
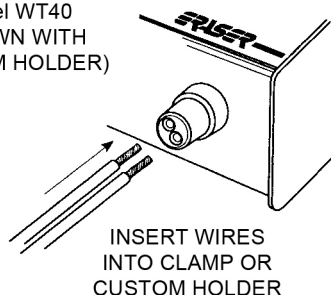
Adjustments may be made to the speed of twist by use of the variable speed control knob. Do not set the knob lower than 20 or the unit will not twist. Twisting speed should be determined by trial and error and will differ for different types and lengths of wires to be twisted. To change the direction of twist, use the rocker switch located on the back of the machine near the top center.

## MAINTENANCE:

Keep machine clean at all times.

## Operation for Model WT40

Model WT40  
(SHOWN WITH  
CUSTOM HOLDER)



## TROUBLESHOOTING:

**PROBLEM:** Machine will not twist when foot pedal is depressed.

### **SOLUTIONS:**

- 1) Turn variable speed control to a setting greater than 20.
- 2) Make sure twist direction rocker switch on rear of unit is set to desired direction.

**PROBLEM:** Machine runs continuously.

**SOLUTION:** Set the counter to a number greater than 0 (See Programming).

**PROBLEM:** Machine does not run.

### **SOLUTIONS:**

- 1) Make sure twist direction rocker switch on rear of unit is set to desired twist direction, and that it is not in neutral (center) position.
- 2) Check fuse.

# WT Series Automatic Wire Twisters - Safety Precautions

## 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.

**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 SUBJECT 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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