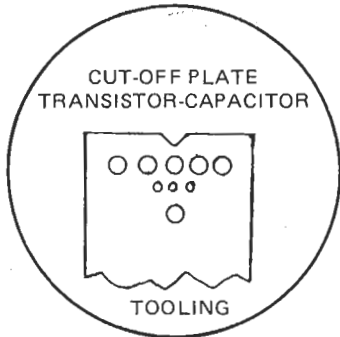


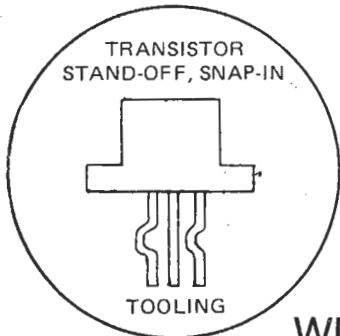
# AXIAL LEAD COMPONENT FORMING & CUTTING MACHINE

LOW COST ADJUSTABLE TOOLING KITS CONVERT THE BASIC MODEL WH/3 TO A "UNIVERSAL" MANUAL CUT & FORM OPERATION.

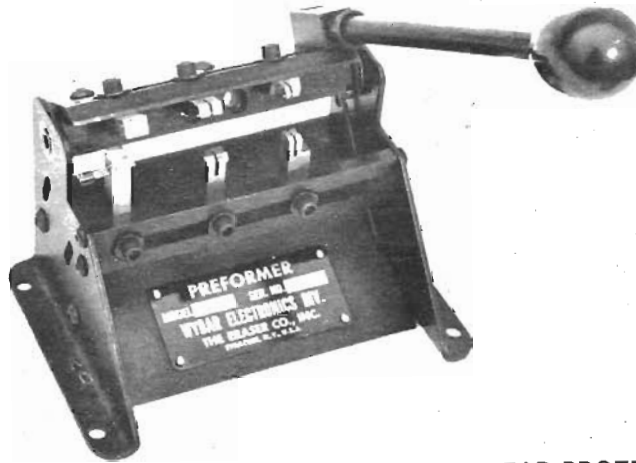
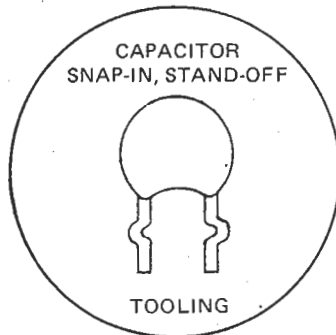
ALL SELECTED WYBAR TOOLING KITS CAN BE INTERCHANGED IN MINUTES TO MEET YOUR VARIED REQUIREMENTS. TOOLING ADJUSTABLE FOR RC05 THROUGH RC42 COMPONENT SIZES.



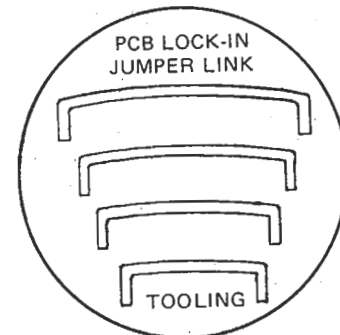
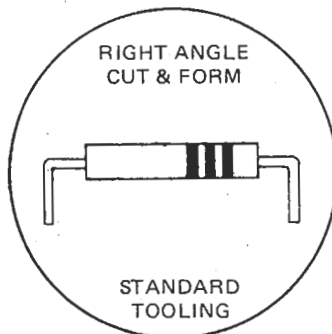
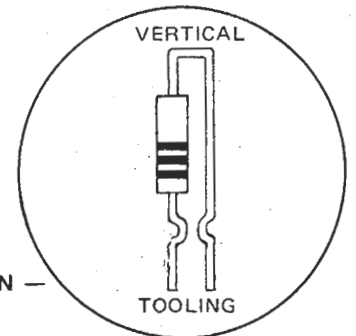
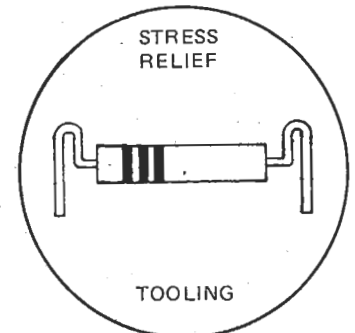
AND



WITH



EXTRA LEAD PROTECTION —  
ORDER DELRIN\* INSERTS



CUSTOM KITS AVAILABLE TO YOUR SPECIFICATIONS.

\*Delrin is a Registered  
Trade Mark of the DuPont Company



## WYBAR ELECTRONICS

DIVISION OF  
THE GRASER CO., INC.

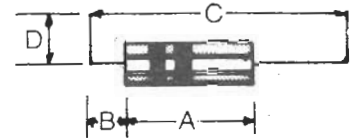
P.O. BOX 4961 • OLIVA DRIVE  
PHONE (315) 454-3237

SYRACUSE, NEW YORK 13221  
TELEX: 937442

# AIR OPERATED FOR AXIAL LEAD CUT & FORM

## Model WA/4

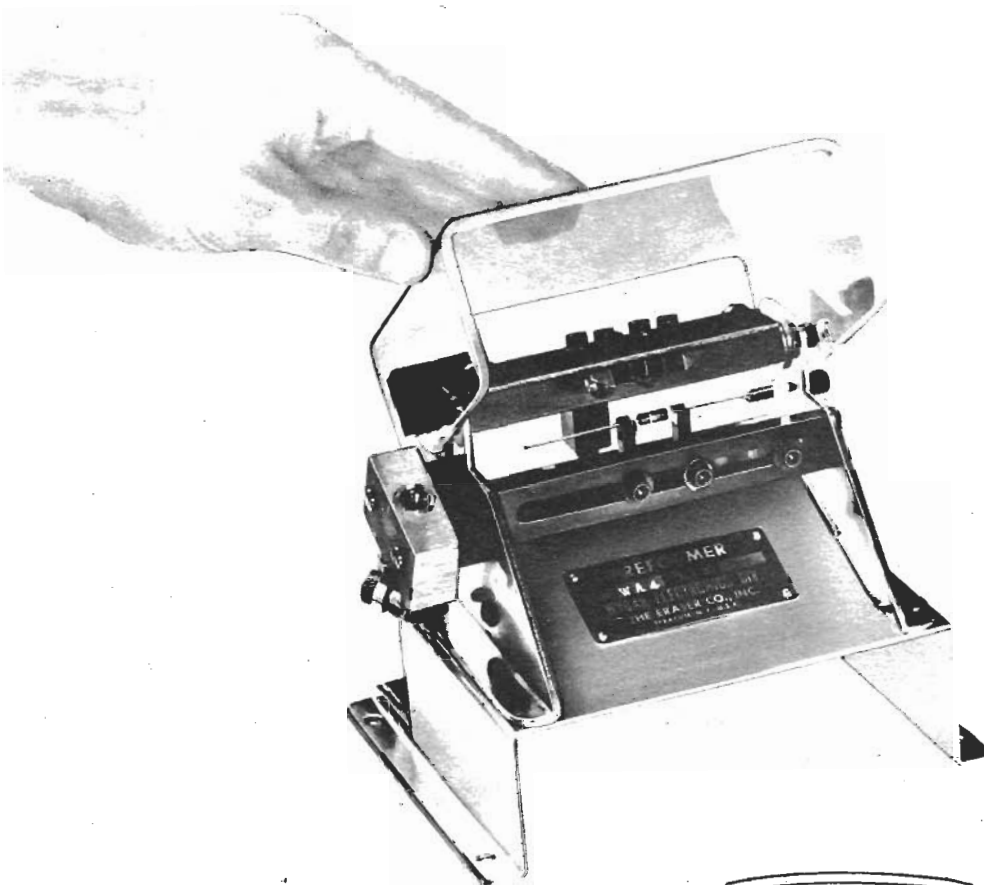
### SPECIFICATIONS:



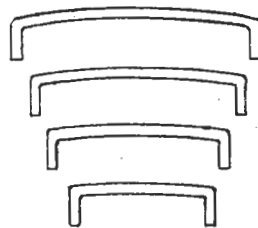
DIM.	A	B	C	D
MIN.	.145 in. 3.68 mm	.060 in. 1.52 mm	.375 in. 9.52 mm	.160 in. 4.06 mm
MAX.	.562 in. 14.27 mm	—	2.250 in. 57.1 mm	—

DIM: 5½" x 4" x 7"  
(13.97 x 10.16 x 17.78 cm)

WEIGHT: 5½ lbs. (2.5 kg)  
90 P.S.I. Air Pressure



**RIGHT ANGLE BEND**



**LOCK-IN JUMPER LINK**



**STRESS RELIEF**

- KITS FOR RIGHT ANGLE BENDS OR LOCK-IN JUMPER LINKS AND STRESS RELIEF.  
(Slight modification needed for jumper links and stress relief.)
- INCREASED PRODUCTION RATE
- REDUCED OPERATOR FATIGUE
- ADJUSTS FOR COMPONENT SIZE, LEAD LENGTH, AND CENTER DISTANCE (RC05-RC42)
- EXTRA LEAD PROTECTION AVAILABLE WITH DELRIN\* INSERTS

\*Delrin is a Registered Trade Mark of the DuPont Company.



# WYBAR ELECTRONICS

DIVISION OF  
THE CRASER CO. INC.

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SYRACUSE, NEW YORK 13221  
TELEX: 937442

# WYBAR

# ELECTRONICS INCORPORATED

P.O. BOX 4961 • OLIVA DRIVE  
PHONE (315) 454-3237

SYRACUSE, NEW YORK 13221  
TELEX: 937442

OPERATING INSTRUCTIONS FOR WYBAR  
MODELS WH/3 AND WA/4

MODEL WH/3 (HAND OPERATED)

1. Depress operating handle to full down position, and lock the top (movable) former bar in the down position by turning the #10-32 locking cap screw (located on right side of unit) clockwise to move inward and stop above handle return spring.
2. The top (movable) former bar holds two (2) former dies and two (2) cutter dies, each set of dies contains one left die and one right die. These left and right formers should be positioned to equal distances on either side of center line mark. (located on the top (movable) former bar)
3. Move left and right component anvils (located on lower (fixed) bar) in towards former dies (on top (movable) bar) so that the spacing between the anvil and die is equal to one (1) component lead diameter. (A component lead "leg" can be used as a feeler gauge)
4. Now bring the left and right cutter dies (located on top (movable) bar) up to the outer edges of each component anvil, close but not snug to the anvils.  
NOTE: Allow enough clearance only to permit free vertical movement of top bar.
5. When formers, cutters and anvils are set to desired dimensions, the locator stops (located on the outer ends of the lower (fixed) bar) can be adjusted to position the body of the component with respect to lead bends.
6. There are three (3) different widths of component anvils (both left and right) furnished with the unit, for selection of cut lead lengths. If longer cut lengths are required, two or more component anvils can be grouped to give the desired cut lengths. Remove any anvils from the lower bar that are not being utilized.
7. Release (turn counter-clockwise) the #10-32 locking cap screw out far enough to permit the operating handle to return by spring action to its normal "up" position, to allow loading of component. Depress operating handle to form and cut one component, check measurements and re-adjust dies if necessary.

NOTE: You will notice that the component that was just formed and cut is still lodged between the component anvils. The unit was designed to give a 2 to 7 degree overbend when forming, place the next component onto the anvils and depress the operating handle; this will eject the previous component from the machine.

- \* If desired, a left handed operating handle kit can be ordered which would move the handle to the left side of the unit. This is an optional no-charge feature furnished by Wybar Electronics.

AUTOMATIC LEAD CUTTING AND FORMING EQUIPMENT

# WYBAR ELECTRONICS

## WH/3 TOOLING KITS

### WH/3 KIT INSTRUCTIONS

CW0902

#### JUMPER WIRE KIT

1. Position formers and anvils approximately as you would to form and cut axial lead components (see General Operating Instructions). The large wire stop is mounted to the right side of the bottom bar to facilitate production and assure uniform sizes.
2. Use allen wrench to adjust formers and anvils to provide specific jumper sizes.
3. The single, left-mounted cutter is also used as a wire guide.
4. To operate, raise the WH/3 handle only far enough to permit wire to pass under formers and butt against stop.

#### JUMPER WIRE KIT

Item No.	Description	Quantity
1	Cutter/Guide	1
2	Former	2
3	Anvil, L.H. 3/16"	1
	Anvil, L.H. 1/4"	1
	Anvil, L.H. 5/16"	1
4	Anvil, R.H. 3/16"	1
	Anvil, R.H. 1/4"	1
	Anvil, R.H. 5/16"	1
5	Stop	1

CW0901

#### TRANSISTOR/CAP KIT

1. Attach multiple lead pattern template left hand side of lower bar. Assemble slotted dies, cutter and anvils to upper and lower bars.
2. Adjust cutter die (use allen wrench to loosen screws and slide dies) in top bar to cut leads inserted through approximate holes in pattern template.
3. After lead cutting, align (loosen screws and slide) desired die & anvil center slots to allow three lead legs to be crimped.
4. Alternately crimp outside and center leads to desired configuration(s). The slots allow leads not being crimped to remain out of the die during the various forming operations.

### WH/3 KIT PARTS LISTS

#### TRANSISTOR/CAP KIT

Item No.	Description	Quantity
1	Cutter	1
2	Form Die, Top (TO-5)	1
3	Form Die, Top (TO-18)	1
4	Cut-Off Template	1
5	Form Die, Bottom (TO-5)	1
6	Form Die, Bottom (TO-18)	1

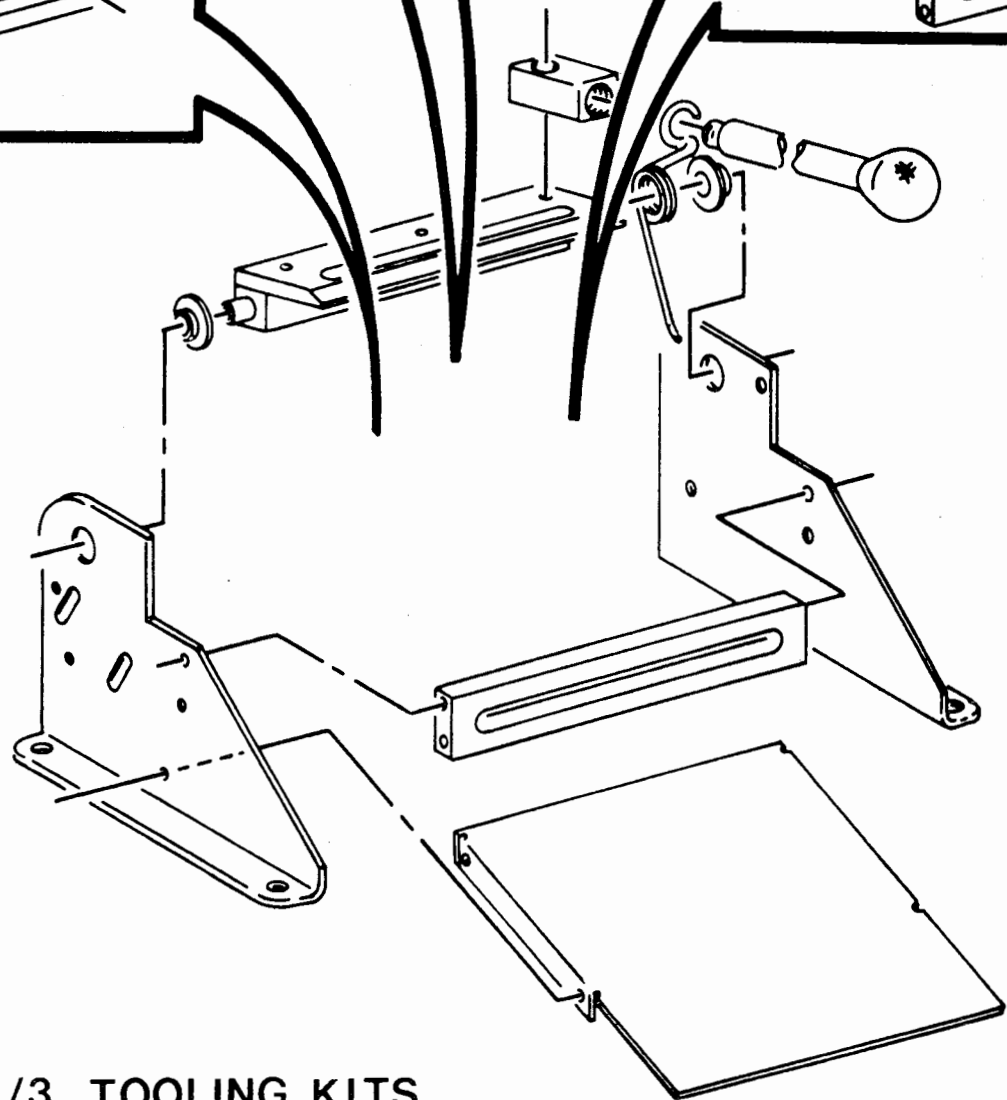
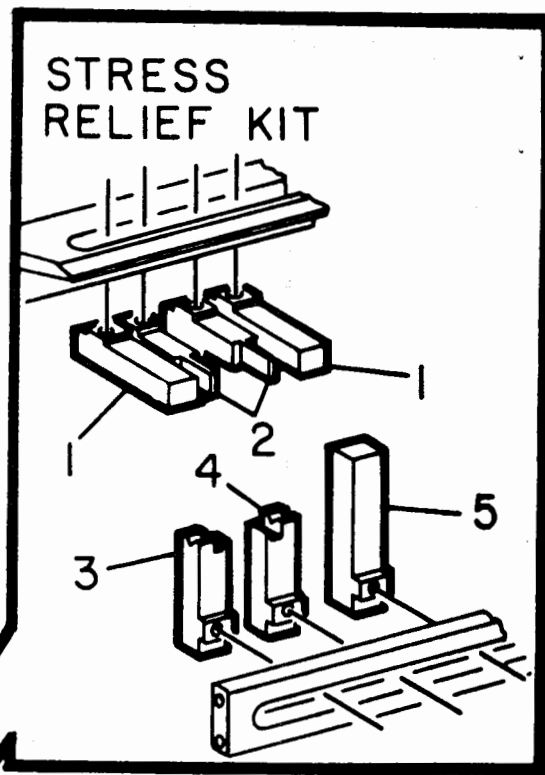
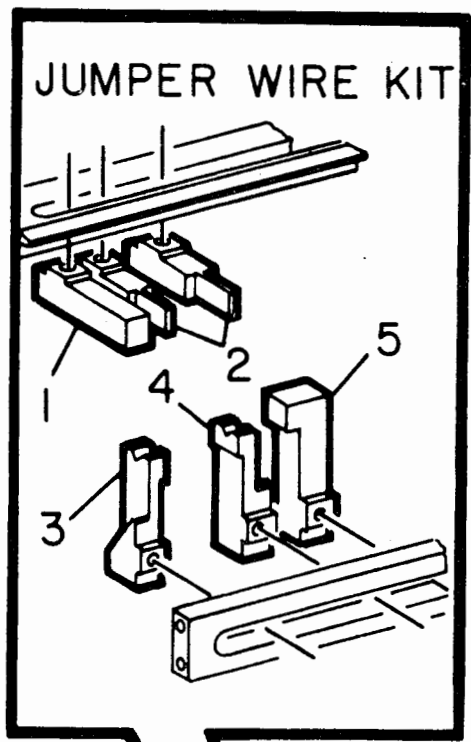
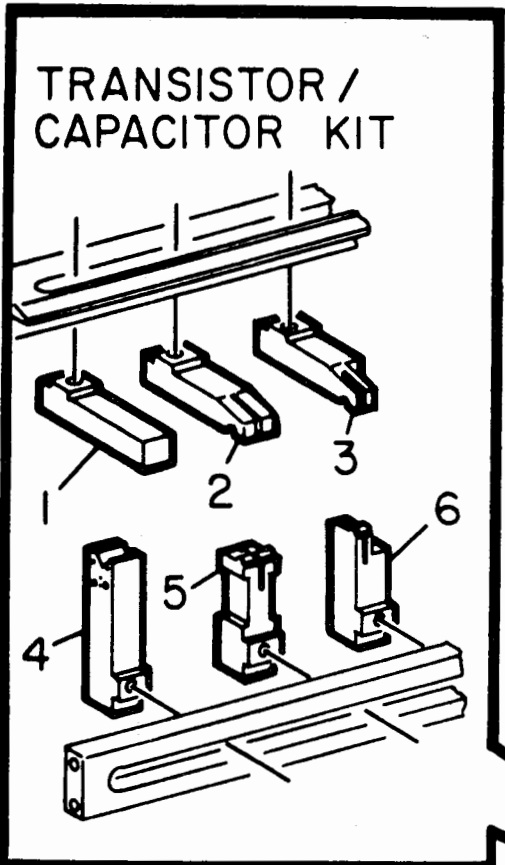
CW0903

#### STRESS RELIEF KIT

1. Position formers, anvils, cutters and locator stop approximately as you would for the axial lead form and cut operation described in the General Operating Instructions.
2. The unit operates the same as shown in the General Instructions — except components must be removed by hand. A few trial operations will verify the set-up.

#### STRESS RELIEF KIT

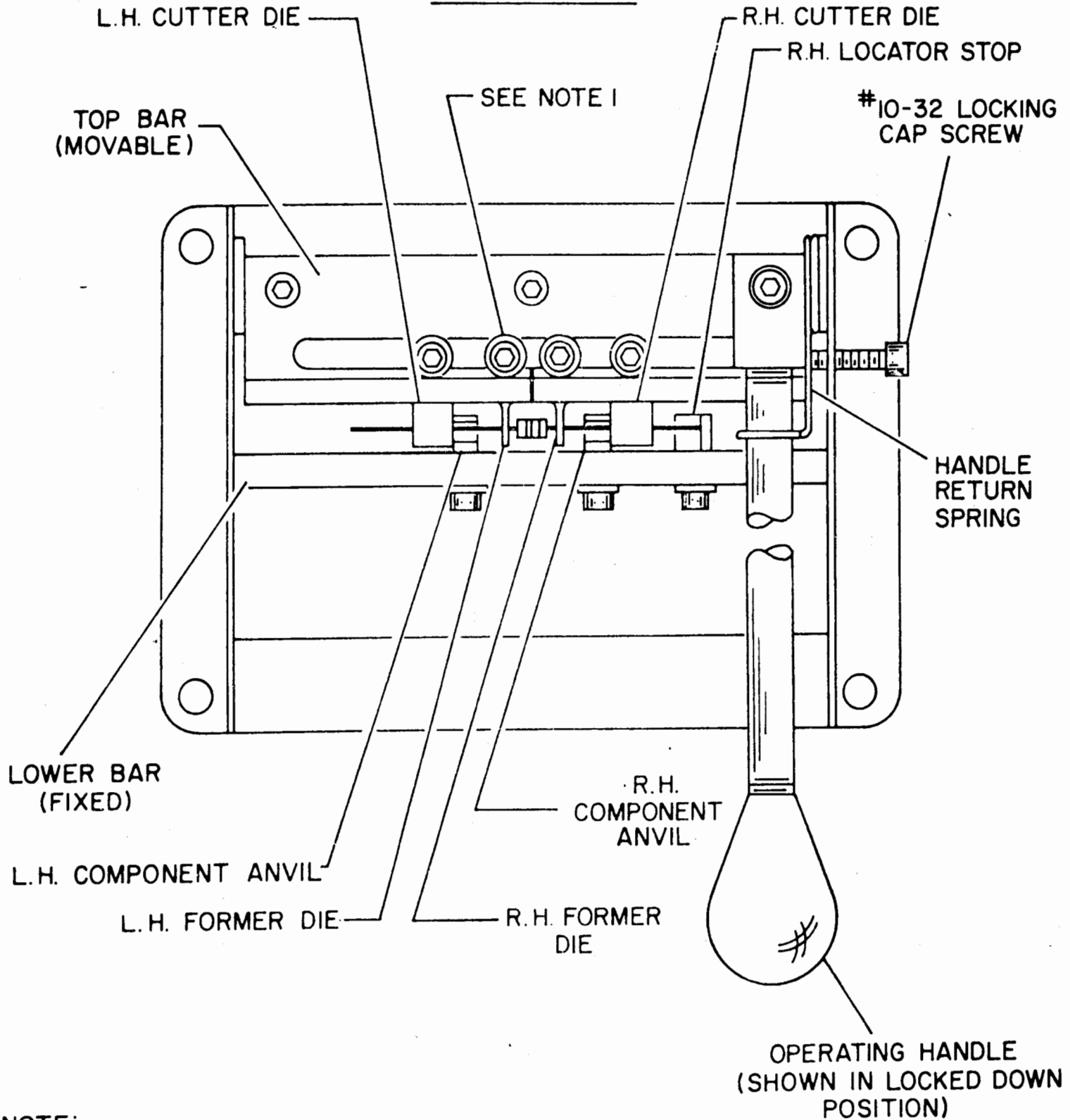
Item No.	Description	Quantity
1	Cutter	2
2	Former	2
3	Forming Die, L.H.	1
4	Forming Die, R.H.	1
5	Stop	1



WH/3 TOOLING KITS

# PARTS LOCATOR CHART

## MODEL WH/3



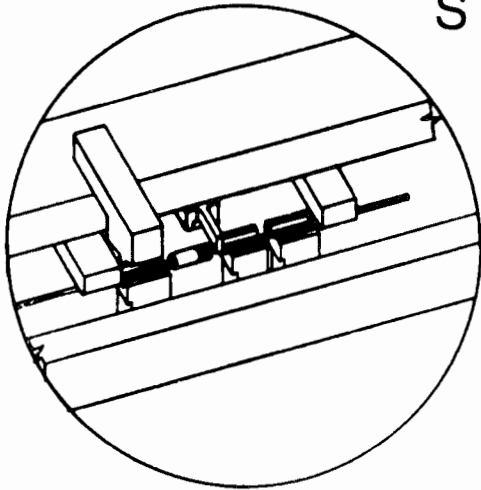
NOTE:

I. ADJUSTMENT CAP SCREWS ARE #8-32 HEX (7 REQ'D).

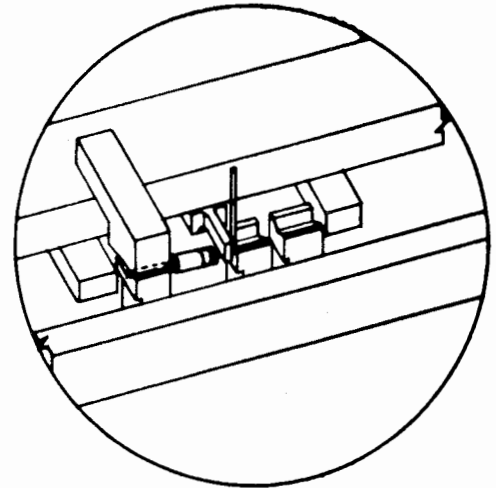
# WYBAR ELECTRONICS

## WH/3 KIT — VERTICAL STAND-OFF FORM

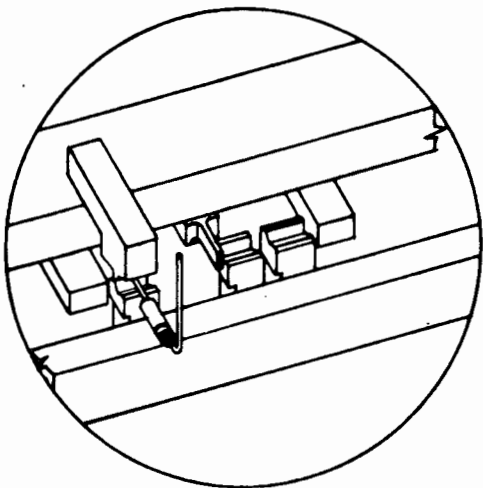
CW0904



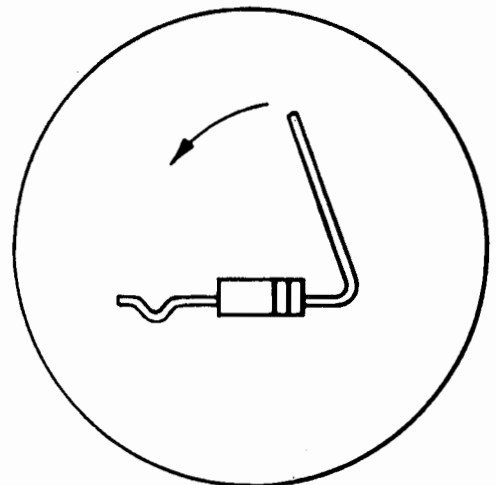
1. Axial lead component in position on anvils just prior to cutting leads to required lengths. Depress handle in quick, firm motion.



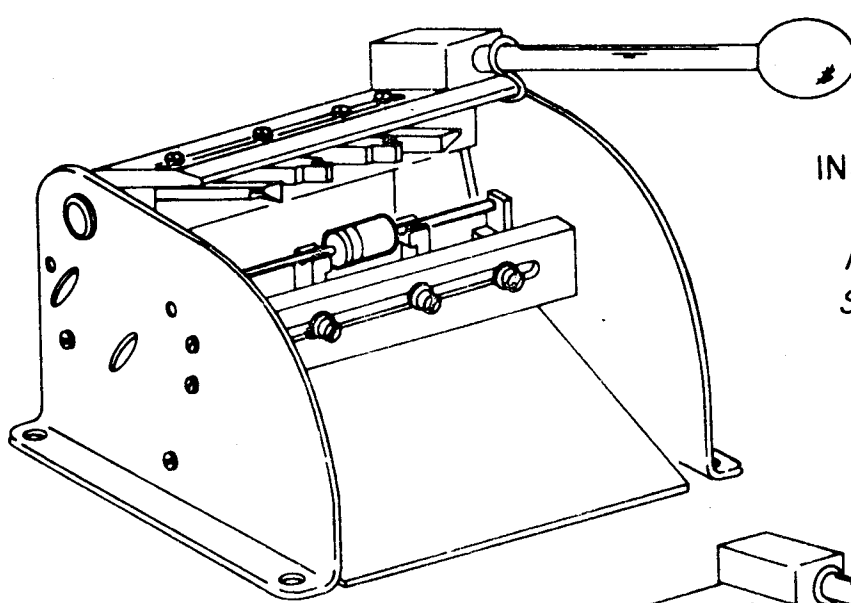
2. Lead cutting is completed and forming die continues downward motion, raising longer lead to a near-vertical position. Return handle to "start".



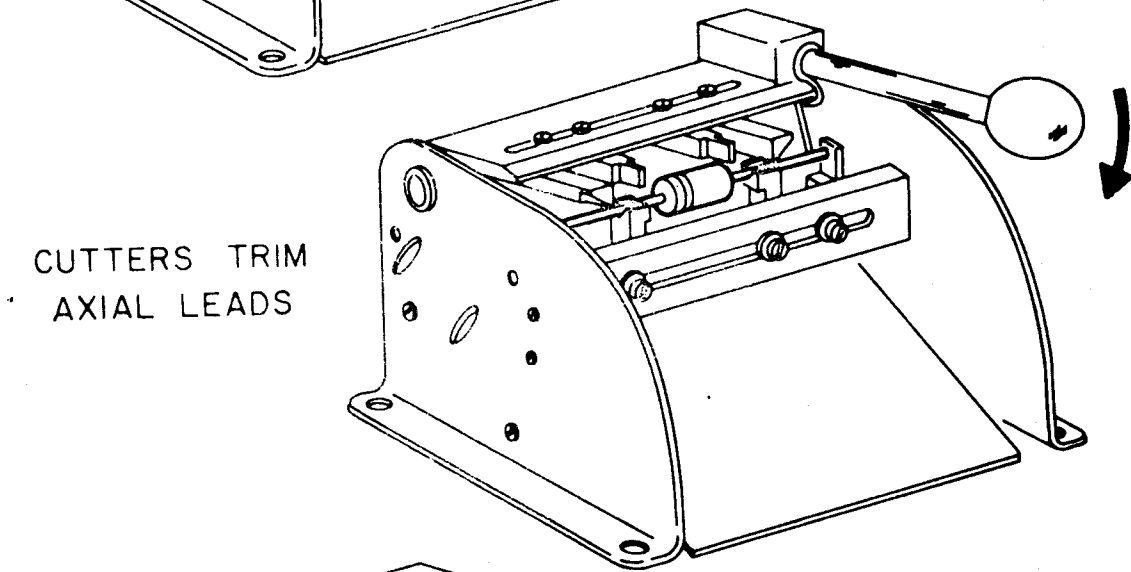
3. Add crimp form to lead(s) as desired.



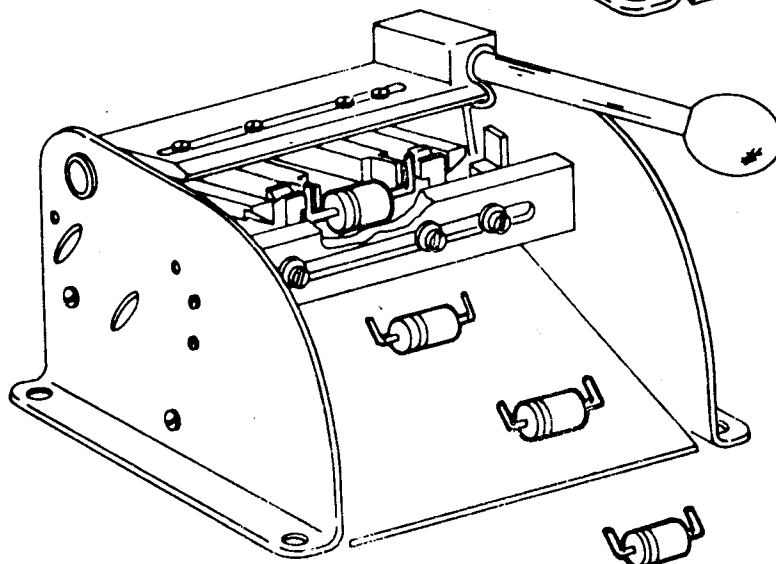
4. Complete vertical configuration by hand as required.



INSERT COMPONENT  
& ADJUST  
*Formers, Cutters,  
Stop & Anvils*



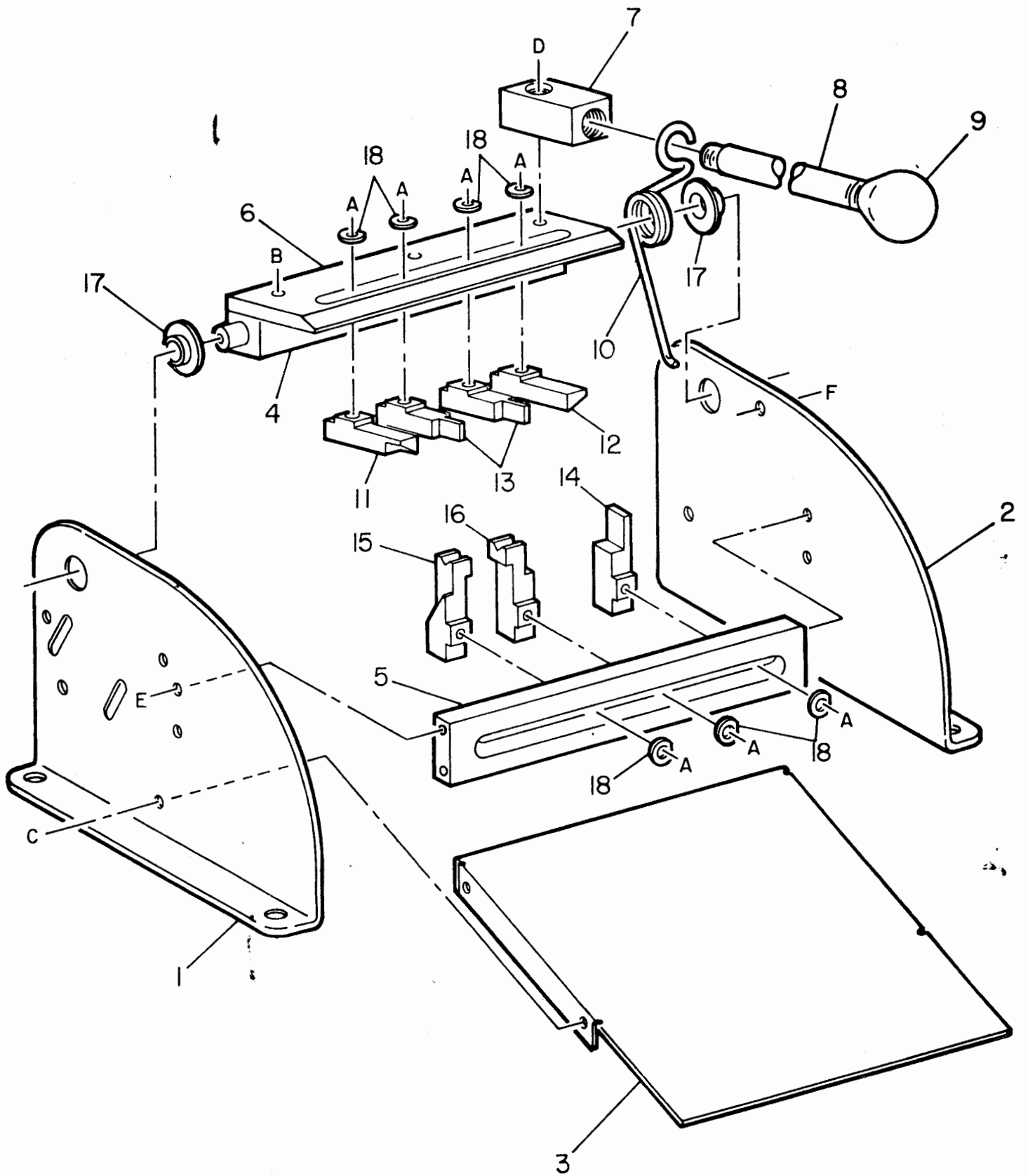
CUTTERS TRIM  
AXIAL LEADS



FORMERS BEND  
LEADS  
*Upward at 90°*



MODEL WH/3 (HAND OPERATED)





# The Eraser Co., Inc.

P.O. Box 4961 • Oliva Drive • Syracuse, N.Y. 13221  
Phone (315) 454-3237 Telex: 937442

Rush Wire Stripper Div. • Wybar Electronics Div. • Power Brush Div.

## PARTS LIST FOR MODEL WH/3

### HAND OPERATED

<u>DWG #</u>	<u>PART #</u>	<u>QTY</u>	<u>DESCRIPTION</u>
1	B-3000-1-1	1	Side, L.H.
2	B-3000-1-2	1	Side, R.H.
3	B-3000-2	1	Base
4	A-3000-3	1	Shaft, Main
5	A-3000-4	1	Mount, Anvil
6	A-3000-5	1	Plate, Top
7	A-3000-6	1	Mount, Handle
8	A-3000-7	1	Handle with Knob
9	X-2578	1	Knob, Handle
10	A-3000-8	1	Spring
11	A-3000-9-2	1	Cutter, L.H.
12	A-3000-9-1	1	Cutter, R.H.
13	A-3000-10	2	Former
14	A-3000-11-1	1	Stop, R.H.
15	B-3000-12-5	1	Anvil, L.H. 1/4"
	B-3000-12-6	1	Anvil, L.H. 5/16"
16	B-3000-12-1	1	Anvil R.H. 3/16"
	B-3000-12-2	1	Anvil, R.H. 1/4"
	B-3000-12-3		Anvil, R.H. 5/16"
	B-3000-12-4		Anvil, L.H. 3/16"
17	A-3000-13	2	Bushing
18	A-3000-14	7	Washer, Clipped
A		7	#8-32 x 1/2" Soc Hd Cap Screw
B		2	#10-32x3/4" Soc Button Hd. Screw
C		4	#10-32 x 1/4" Soc Button Hd Screw
D		1	#10-32 x 1" Soc Hd Cap Screw
E		4	#8-32 x 3/8" Soc Button Hd Screw
F		1	#10-32 x 1/2" Soc Hd Cap Screw

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

# WYBAR ELECTRONICS INCORPORATED

## MODEL WA/4 (AIR ACTIVATED)

NOTE: All former, cutter, anvil and body locator adjustments are done in the same sequence as the Model WH/3 procedures described in the above outline, with the following exceptions to allow access to the adjustment screws:

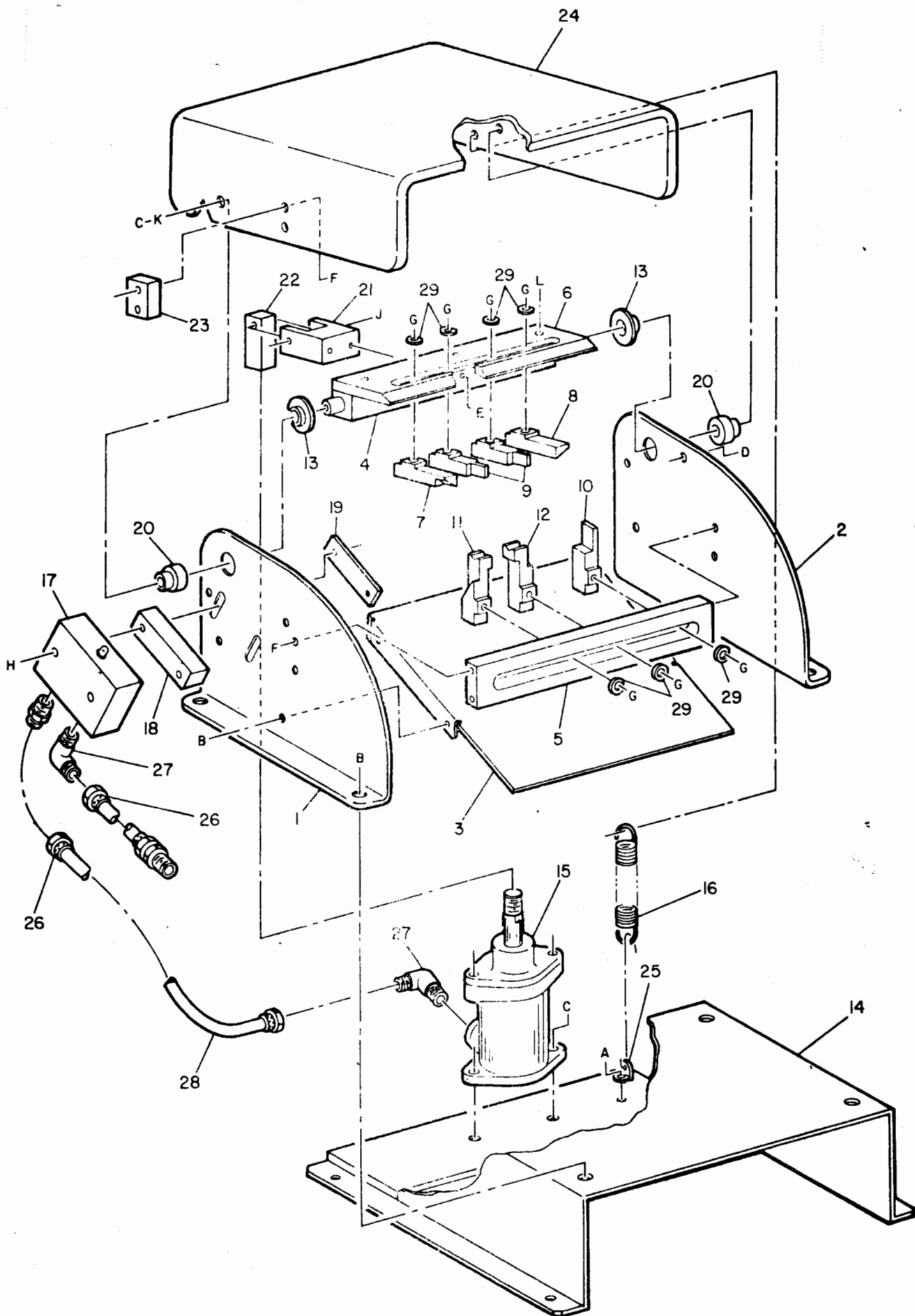
1. With the left thumb depress the plunger of air valve (located on left side of machine on top of air valve). This will energize the air cylinder and cause the top (movable) bar to move downward. While holding the plunger down, turn the #10-32 locking cap screw (located at right rear side of unit acting as a stop for safety guard) counter-clockwise to completely remove the screw, and move it forward to the upper tapped hole and screw it all the way in against the far right end of the top (movable) bar. This will lock the top bar in a full down position to allow access to the top adjustment screws.
2. Follow the adjustment procedures as outlined for the Model WH/3.
3. Now press the air valve plunger again to remove tension from the top (movable) bar. Turn the locking cap screw (counter-clockwise) to back out the screw to allow the top (movable) bar to return to the full up position after you remove thumb from the air valve plunger.
4. NOTE: The only other adjustment is to the air valve itself. The valve is mounted in elongated slots which permits raising or lowering the valve to change the tripping action timing of the air valve.
5. Air requirement for this unit is a 60 to 90 PSI supply - if you are forming larger components (2 watts), the air pressure should be regulated up to the full 90 PSI.

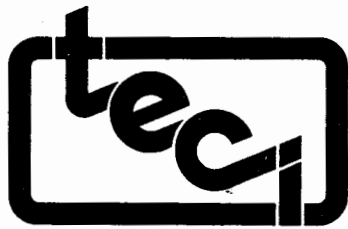
NOTE: A lubricator and filter should be installed in your air service line ahead of the machine connection to insure that the air is free of water and that some oil is added.

\*\* If you should encounter any difficulties with the equipment or the setup procedures, please do not hesitate to contact either your local representative or this office directly.

AUTOMATIC LEAD CUTTING AND FORMING EQUIPMENT

MODEL WA/4 (AIR ACTIVATED)





# The Eraser Co., Inc.

P.O. Box 4961 • Oliva Drive • Syracuse, N.Y. 13221  
Phone (315) 454-3237 Telex: 937442  
Rush Wire Stripper Div. • Wybar Electronics Div. • Power Brush Div.

## PARTS LIST FOR MODEL WA/4 AIR ACTIVATED

<u>DWG #</u>	<u>PART #</u>	<u>QTY</u>	<u>DESCRIPTION</u>
1	B-3000-1-1	1	Side, L.H.
2	B-3000-1-2	1	Side, R.H.
3	B-3000-2	1	Base
4	A-3000-3	1	Shaft, Main
5	A-3000-4	1	Mount, Anvil
6	A-3000-5	1	Plate, Top
7	A-3000-9-2	1	Cutter, L.H.
8	A-3000-9-1	1	Cutter, R.H.
9	A-3000-10	2	Former
10	A-3000-11-1	1	Stop, R.H. & L.H.
11	B-3000-12-5	1	Anvil, L.H. 1/4"
	B-3000-12-6	1	Anvil, L.H. 5/16"
12	B-3000-12-1	1	Anvil, R.H. 3/16"
	B-3000-12-2	1	Anvil, R.H. 1/4"
	B-3000-12-3		Anvil, R.H. 5/16"
	B-3000-12-4		Anvil, L.H. 3/16"
13	A-3000-13	2	Bushing
14	B-4000-1	1	Base, Weldment
15	X-2579	1	Cylinder
16	X-2580	1	Spring
17	X-2581	1	Valve, 3 Way
18	A-4000-2	1	Spacer
19	A-4000-3	1	Nut, Plate
20	A-4000-4	2	Bushing
21	B-4000-5	1	Arm, Actuator
22	A-4000-6	1	Block, Pivot

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PARTS LIST FOR MODEL WA/4 CONT'D.

AIR ACTIVATED

<u>DWG #</u>	<u>PART #</u>	<u>QTY</u>	<u>DESCRIPTION</u>
23	A-4000-7	1	Block, Actuator
24	B-4000-8	1	Guard
25	X-2582	1	Lug, Solder Terminal Rt. Angle #10
26	X-2256	2	Connector, Male
27	X-2257	2	Elbow, Male
28			Tubing, Polyethylene
29	A-3000-14	7	Washer, Clipped
A		1	#10-32 x 1/4" Soc Hd Cap Screw
B		8	#10-32 x 3/8" Soc Button Hd Screw
C1		4	#10-32 x 1/2" Soc Button Hd Screw
D		1	#10-32 x 1" Soc Hd Cap Screw
E		2	#10-32 x 5/8" Soc Hd Cap Screw
F		6	#8-32 x 3/8" Soc Button Hd Screw
G		7	#8-32 x 1/2" Soc Hd Cap Screw
H		2	#6-32 x 1-3/8" Soc Button Hd Screw
J		1	Pin, Roll 3/16" x 1"
K		2	#10 Flat Washer
L		3	#10-32 x 3/4" Soc Button Hd Screw

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