

**SHOOTER - II**  
**OR**  
**SHARP-SHOOTER – II**

# U.S. PAPER COUNTERS SHOOTER or SHARP-SHOOTER-II COUNTING/TABBING MACHINE TABLE OF CONTENTS

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**NOTE: U.S. Paper Counters reserves the right to change the price, appearance, specifications or design of its products at any time without notice or incurring the obligation either to modify units previously manufactured or to furnish products with previously published specifications.**

REVISED JAN 2007

## **SECTION #1: WARRANTY**



## **SECTION #2: TECHNICAL DETAILS**



# U.S. PAPER COUNTERS SHEET COUNTING MACHINES SHOOTER II or SHARP-SHOOTER -II TECHNICAL DETAILS

## SPECIFICATIONS:

- \* Maximum Height w/Standard Pedestal - 54" (135cm)
- \* Minimum Height w/Standard Pedestal - 01" (2.50cm)
- \* Shooter Weight – 40 lbs (18 kg)
- \* Shooter Shipping Weight – 63 lbs (28.5 kg)\*\*
- \* Sharp-Shooter Weight - 41 lbs (19kgs)
- \* Sharp-Shooter Shipping Weight - 63 lbs (28.5 kgs) \*\*
- \* Standard Electrical -110V AC 3AMP

**\*\*SHIPPING WEIGHT BASED ON DOMESTIC SHIPMENTS**

## FEATURES:

- \* Counting Speed – Equal to your equipment (2000+ CPM)
- \* Tab Insertion - 5 Thru 9999
- \* Total and Batch Count
- \* High Speed Tab Selection
- \* Subtract Count
- \* Backlit LCD Display, Total and Batch Count
- \* Variable Tape Length Control
- \* Variable Knife Cut Delay
- \* Electronics Capable of Driving  
Multiple Tabbing Heads
- \* Adjustable Pedestal
- \* 16" (40cm) Standard Tape Chute Length
- \* Micro Switch or Electronic Coupling Pick-Up

## OPTIONS:

- \* Infrared Opto Sensor
- \* 220V AC Power Supply
- \* Pedestal Extensions Available  
(2 ft (60cm) or 3 ft (90cm))
- \* 90° Tabbing Head
- \* Custom Chute Lengths
- \* Custom Programming
- \* Spoilage Counter w/Red Tag Inserts (Sharp-Shooter II Only)

**CE:** Standards to which conformity is declared: EN 50082-1, EN 55011 & EN 60950.





## **SECTION #3: INSTALLATION**

## INSTALLATION

### 1. MOUNTING PICK/UP:

- A. **MICRO SWITCH** - Mount switch assembly to press as illustrated in Drawing #1, Page 12. Mounting should be such, that the micro switch receives one pulse per impression.

Mounting on presses with enclosed oil filled mechanism can be accomplished by using the Electronic Coupling Pick-Up on the "Shooter" Electronic Control Unit, which allows input from the press's existing counter.

- B. **ELECTRONIC COUPLING PICK-UP** - Allows for input to the Shooter Electronic Control Unit from the press's existing counter. (NOTE: Requires knowing the output voltage from press's counter. Connection should be done by a qualified electrician.)
- C. **INFRARED OPTO SENSOR** - Attach to press or sheeter, using adjustable gooseneck mount provided. Position Sensor so that each sheet triggers the transmitter and 1 count per impression is registered on the Electronic Unit. There is up to an 8" adjustable range obtainable by using the set screw on the sensor. (A 6' cable is provided. If longer or shorter cable required, please contact office.)

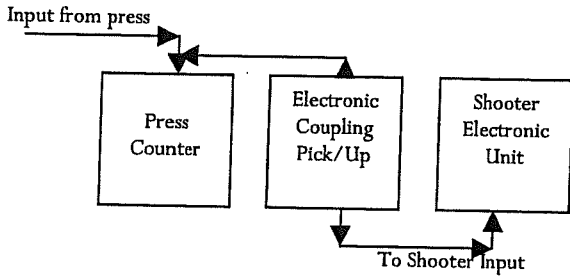
2. Bolt 3' (90cm) stand post into base plate. Insert 2' (60cm) into 3' Section. (Refer. Drawing #3, Page 15.)
3. Remove "Head Adjustment Knob", washer and spacer from mounting block (Drawing #4, Page 17). Place Tabbing Head on threaded rod; replace spacer, washer and knob. Tighten securely.
4. Remove Tape Reel Cover by removing wing nuts. Load tape as illustrated in Drawing #5, Page 18. Replace cover and secure with wing nuts.
5. Attach Electronic Control Unit to stand assembly and position above or below Tabbing Head as illustrated in Drawing #3, page 15.
6. Plug 6' cable into output of Electronic Control Unit and input of Tabbing Head. (Drawing #5, Page 18).
7. Plug 20-ft cable from pick-up into input of Electronic Control Unit.
8. Plug power cable into Electronic Unit and 110V AC receptacle or optional 220V AC single phase receptacle.
9. With Tabbing Head in a horizontal position, place "Shooter" at the delivery pile of the press and adjust stand height so tape chute is level with top of pile. (Drawing #5, Page 18). If it is necessary for tabbing head to be positioned above or below horizontal, (Drawing #4, Page 17) the optional tape deflector must be used.

**WARNING:** When making any dry/no voltage connections, we recommend that you double-check all dry contact connection points to be sure that there is **no voltage**. If there is voltage, it will result in damaging the Shooter's electronics when the relay box has been removed or jumped.

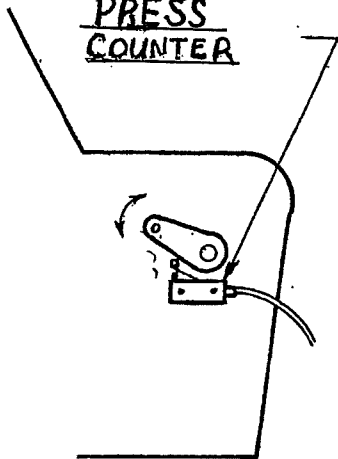
*U.S. Paper Counters recommends that, **before** making any connections or modifications, you should review your wiring diagram and consult with your nearest equipment representative. U.S. Paper Counters can not be held responsible for any damage done by misuse or improper installation of any of their products.*

External Relay Connection

Pick-up Equipped with relay-matching voltage to the Press Counter



PRESS COUNTER

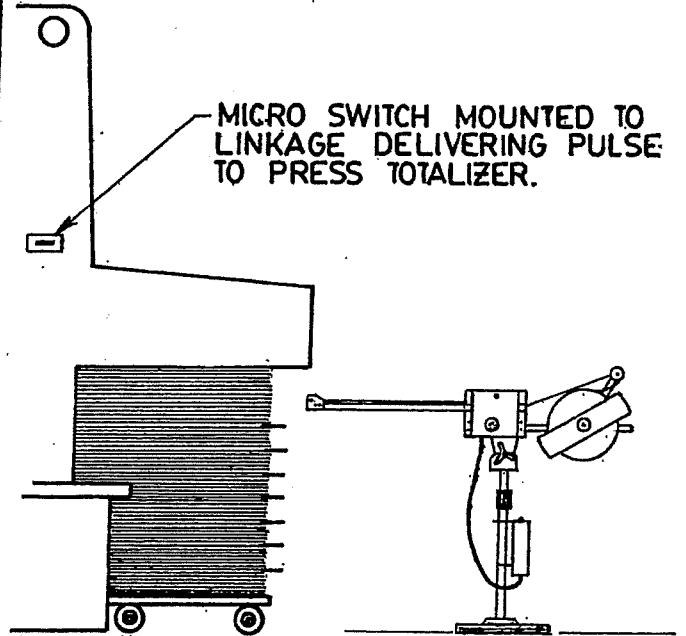


DRAWING #1

HEIDELBERG PRESS

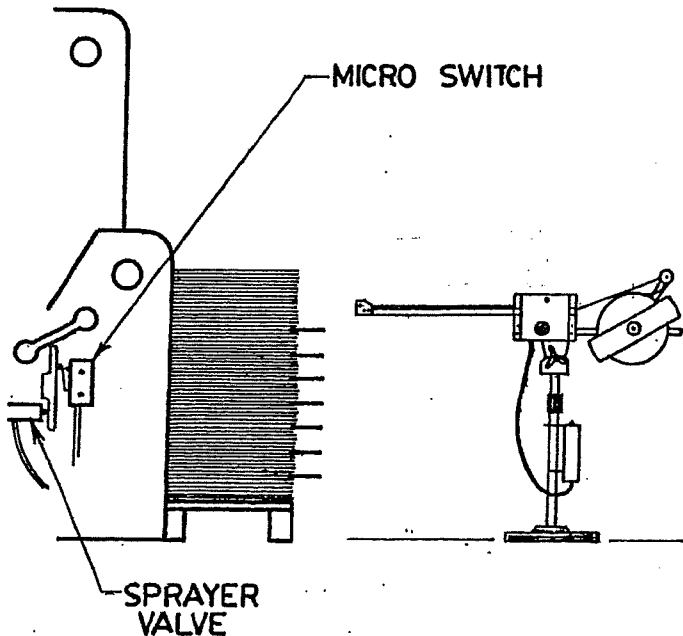
SORZ, SORDZ, SORKZ, SORMZ.

MICRO SWITCH MOUNTED TO LINKAGE DELIVERING PULSE TO PRESS TOTALIZER.



ATF PRESS

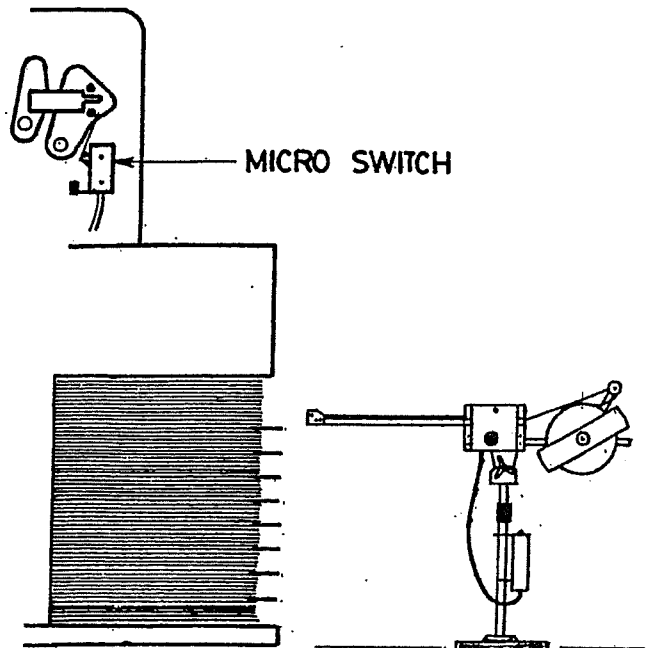
MICRO SWITCH



SPRAYER VALVE

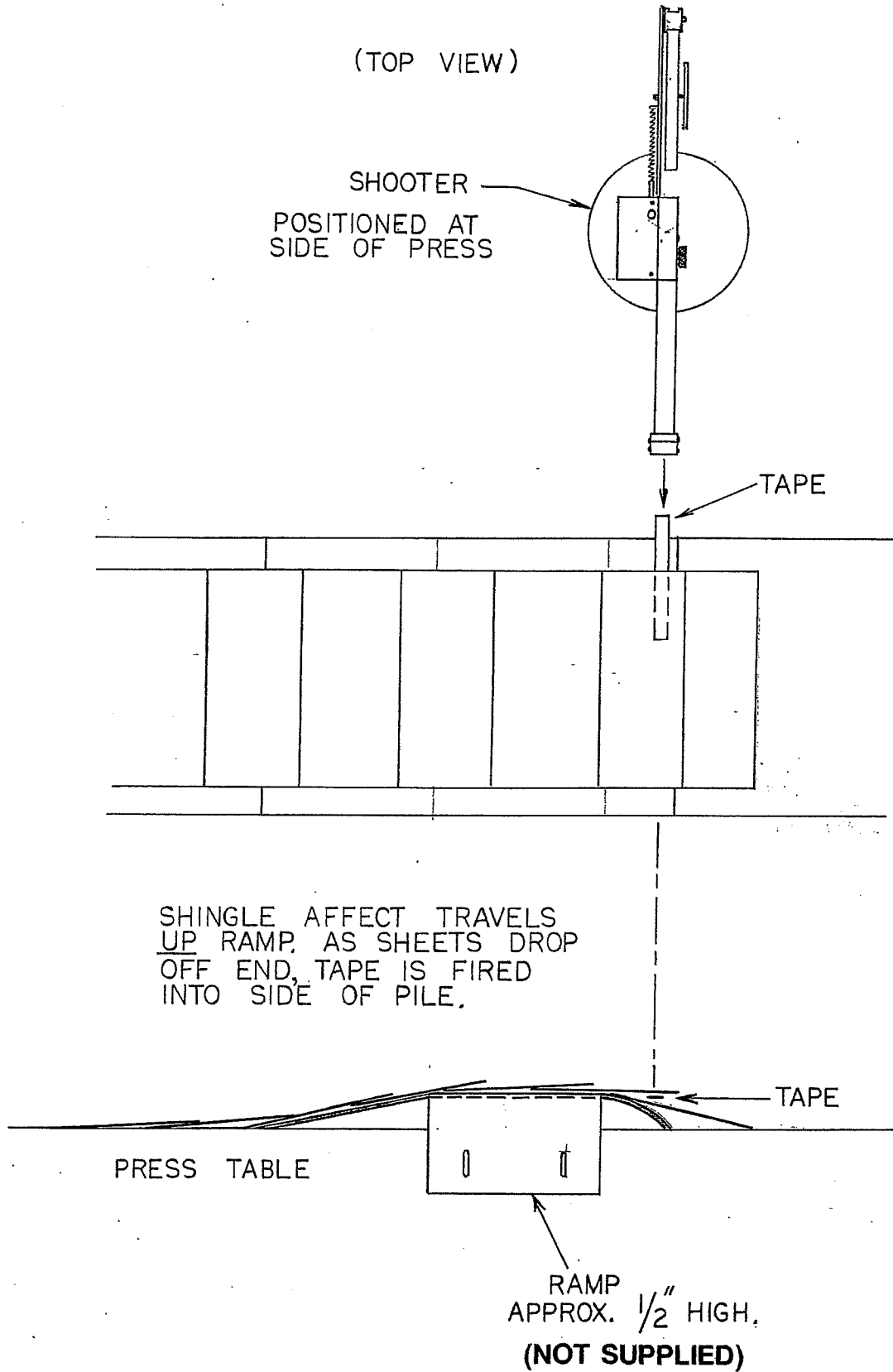
HARRIS AND MILLER PRESS

MICRO SWITCH

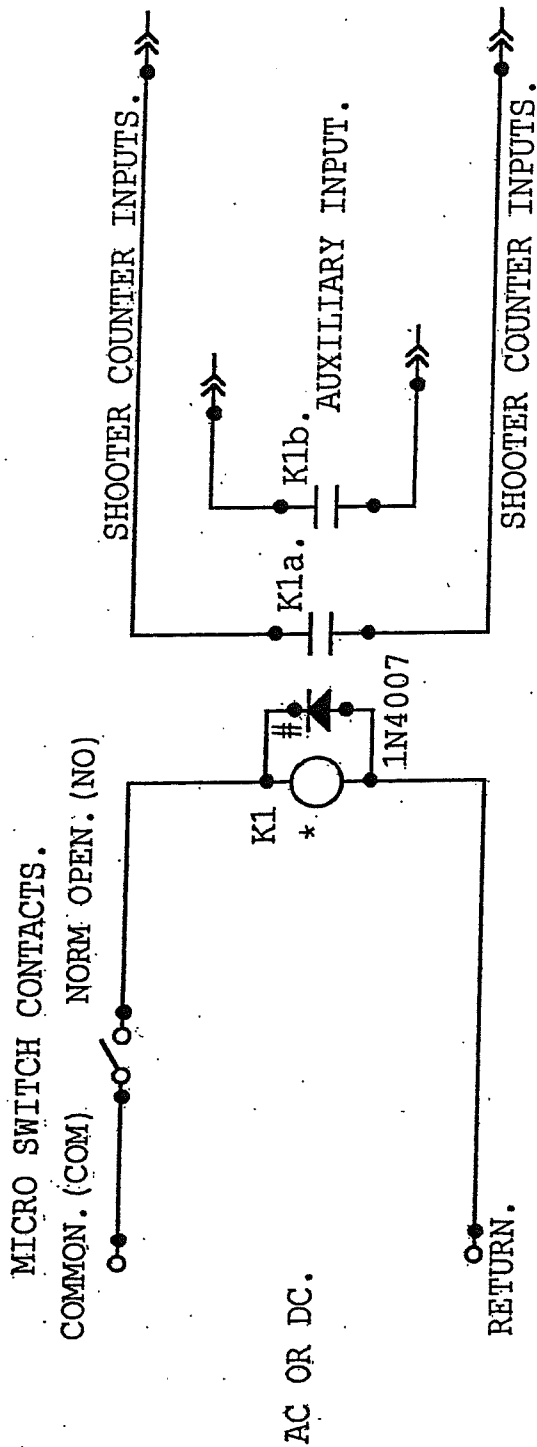


**SHOOTER POSITION FOR TAB INSERTION  
INTO SHINGLE DELIVERY**

DRAWING #2



ANY MICRO SWITCH LOCATED ON PRESS OPERATED BY A CAM

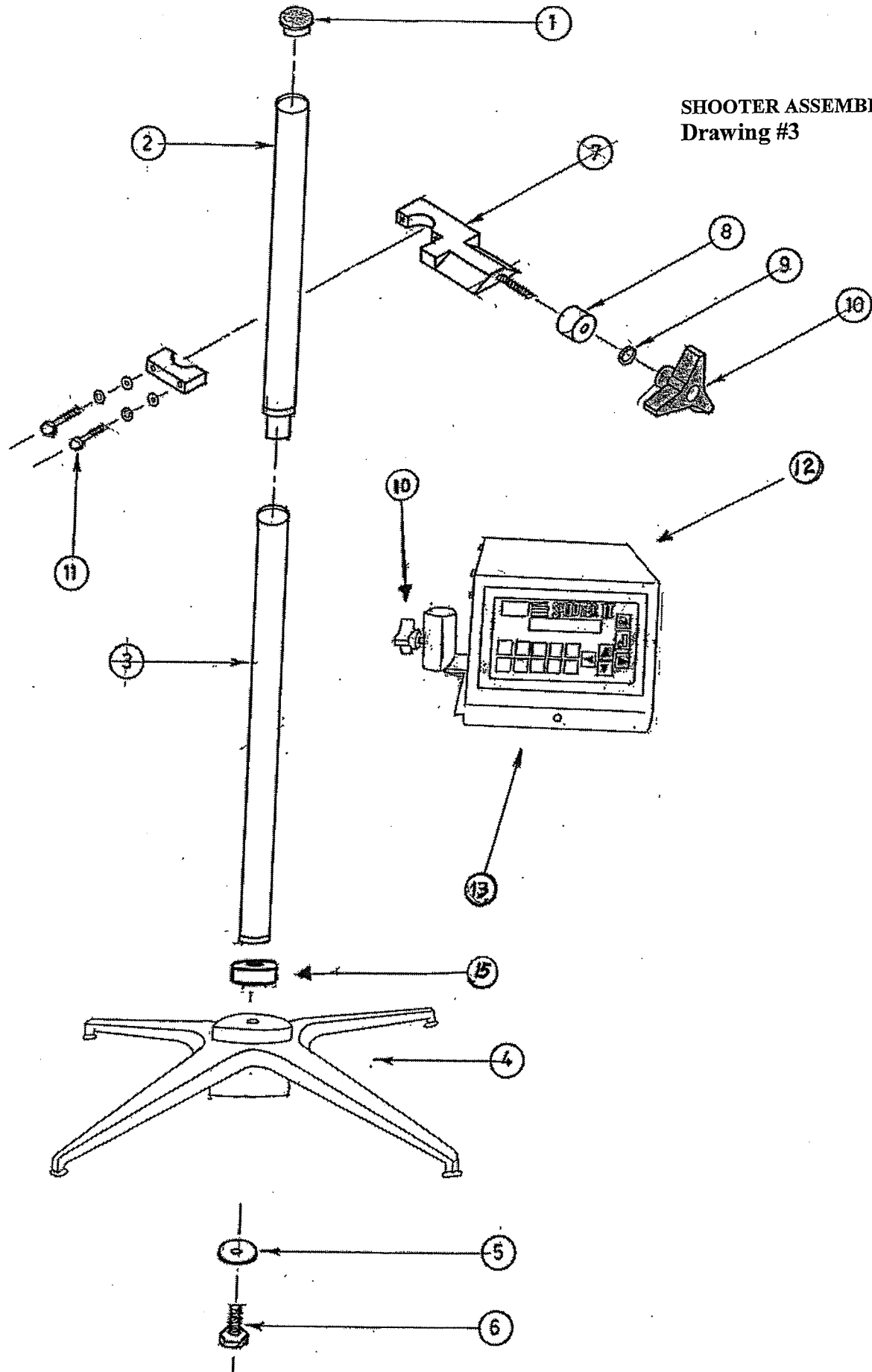


\* APPLIED VOLTAGE (AC OR DC.) = RELAY COIL VOLTAGE DPDT. RELAY.

# IF AC IS USED REPLACE DIODE WITH M.O.V.

**ALTERNATIVE INPUT FOR SHOOTER**

SHOOTER ASSEMBLY  
Drawing #3

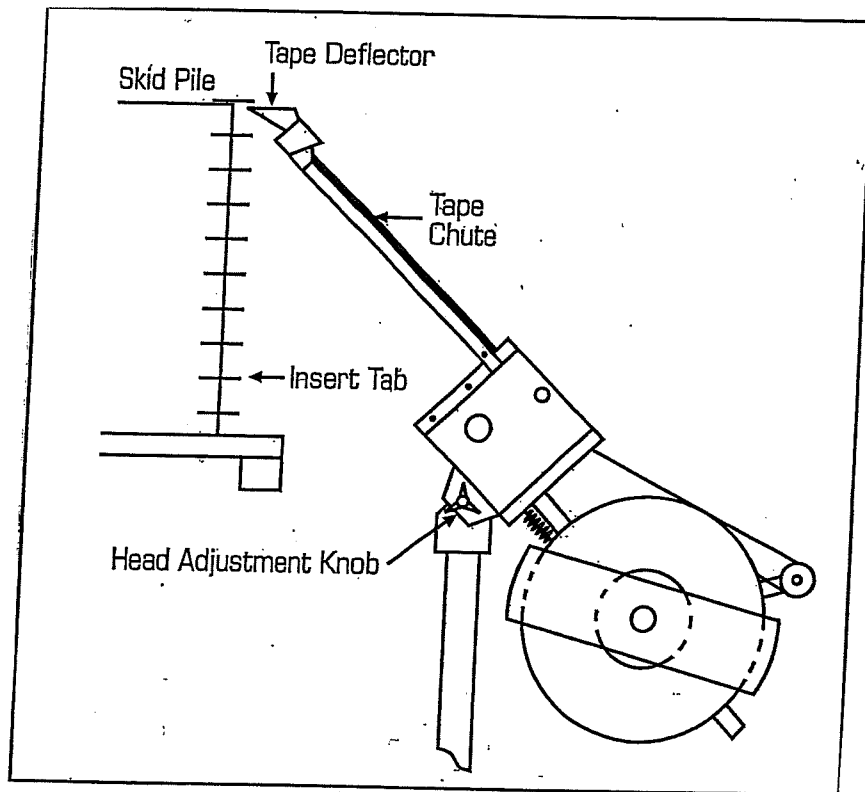


**DRAWING NO. 3 – SHOOTER ASSEMBLY (P.15)**

<b>KEY</b>	<b>DESCRIPTION</b>	<b>PART NO.</b>
1	Pole Plug	TS-207
2	Pole Extension (2' Section)	TS-200-C
3	Base Pole (3' Section)	TS-200-B
4	Stand Base	TS-200-A
5	3/8 Fender Washer	H-286
6	3/8-16 x 1" Hex Mounting Bolt	H-288
7	Head Mounting Bracket (2 pc)	TS-205
8	Spacer	TS-202
9	5/16 Split Lock Washer	H-296
10	Locking Knob	TS-204
11	Bracket Hardware:	
	1/4-20 x 1 1/2" Bolt	H-100
	1/4-20 Star Washer	H-136
	1/4-20 Flat Washer	H-140
12	Main ECU Board	TS-100-A
13	Mounting Plate	TS-208-A
14	ECU Pole Adapter	TS-206-C
15	Base Stand Adapter	TS-200-F

## USING THE TAPE DEFLECTOR

### Drawing #4



### TAPE CHUTE LENGTHS

Standard: 16" (40cm)  
Custom Sizes Available  
Minimum Chute Length for  
Sharp-Shooter 8" (20cm)

### PEDESTAL SPECIFICATION

Heavy-duty cast base with 3' (90cm) and 2' (60cm) aluminum tubes and adjustable mounting brackets for the Counting Head and ECU. Minimum height of Counting Head is 1" (2.5cm) to a maximum height of 54" (135cm) with the Counting Head tilted upward.

### ADDITIONAL RANGES:

2' (60cm) extension tubes are available from U.S. Paper Counters.

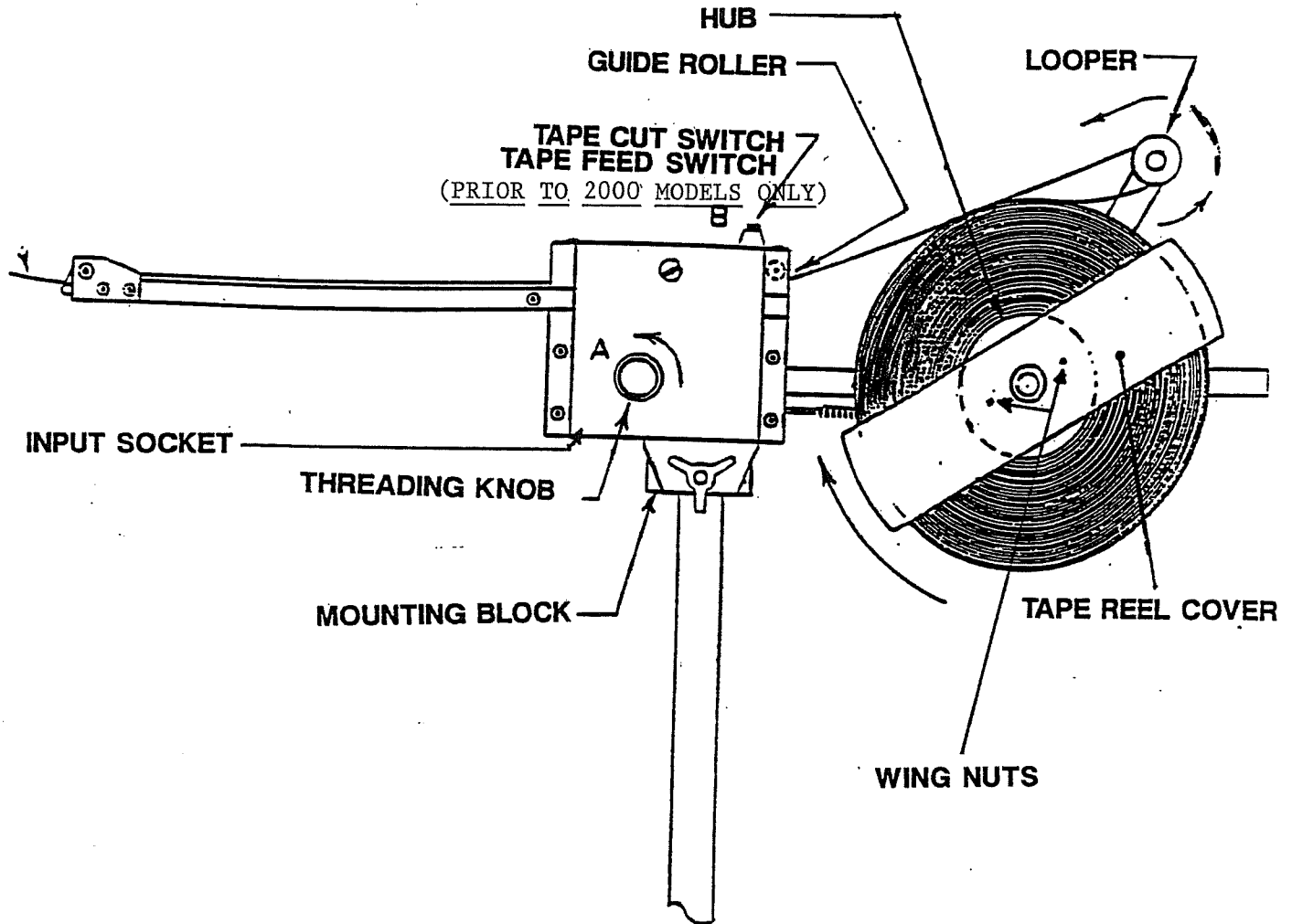
**NOTE:** In maximum height position, an adjustable tape deflector is required to direct the tape properly into the pile.



## LOADING INSERT TAPE

Drawing #5

**INSERT TAPE:** Furnished on standard rolls of 9" (22cm) in diameter by 1/2" (1.25cm). Tape rolls are placed over mounting hub and tape core is pressed firmly on pointed locating pin. Tape reel cover is positioned and held in place by wing nuts.



**LOADING TAPE:** Feed tape roll in a clockwise direction around looper and insert approximately 1-1/2" (3.75cm) into head below guide roller as shown.

Then push switch "B" forward until tape appears at end of chute.

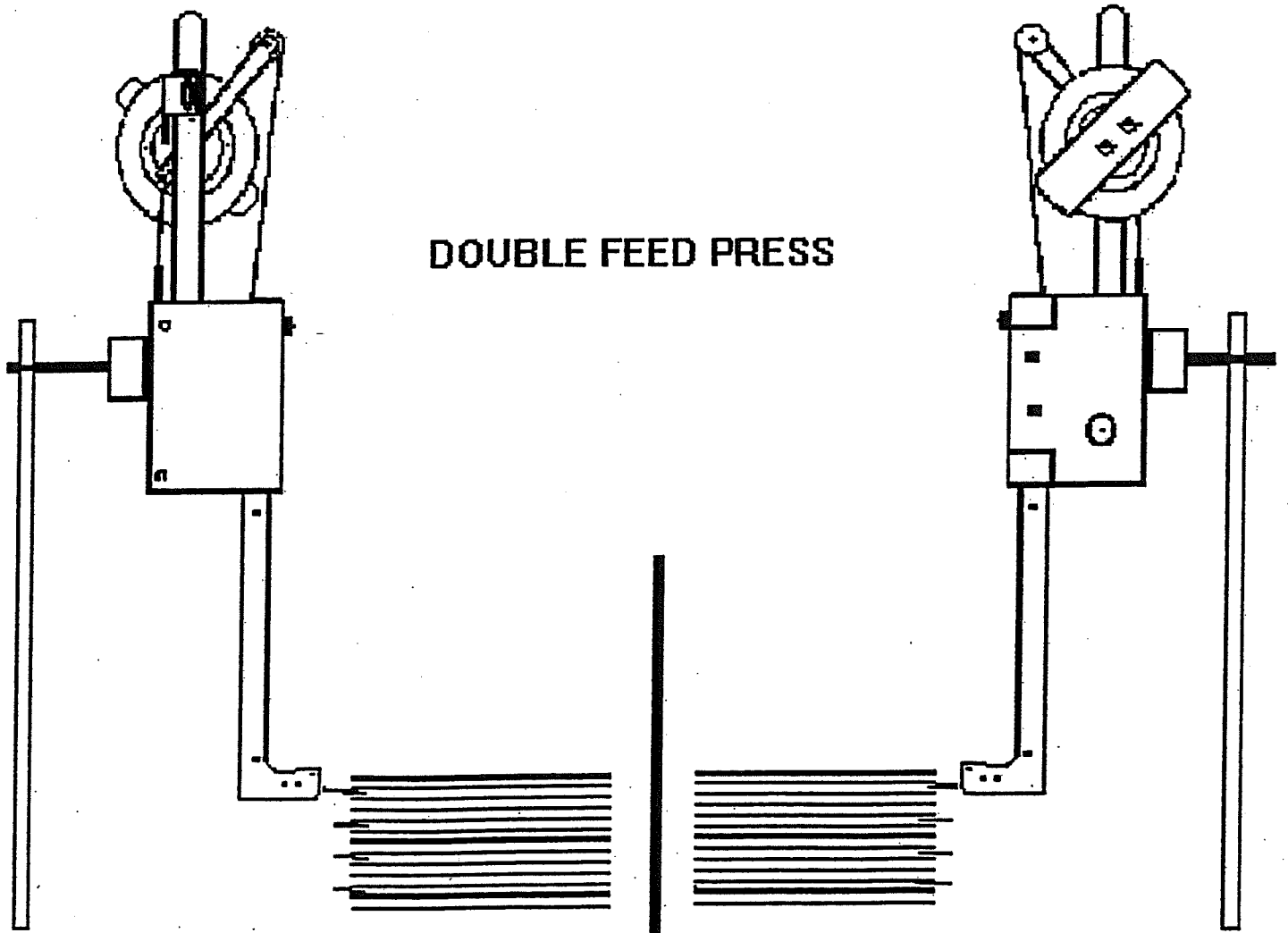
(NOTE: Models prior to the year 2000, press tape feed button on ECU until tape appears.)

With power on, press tape cut switch "B" back to cut tape flush with end of chute.

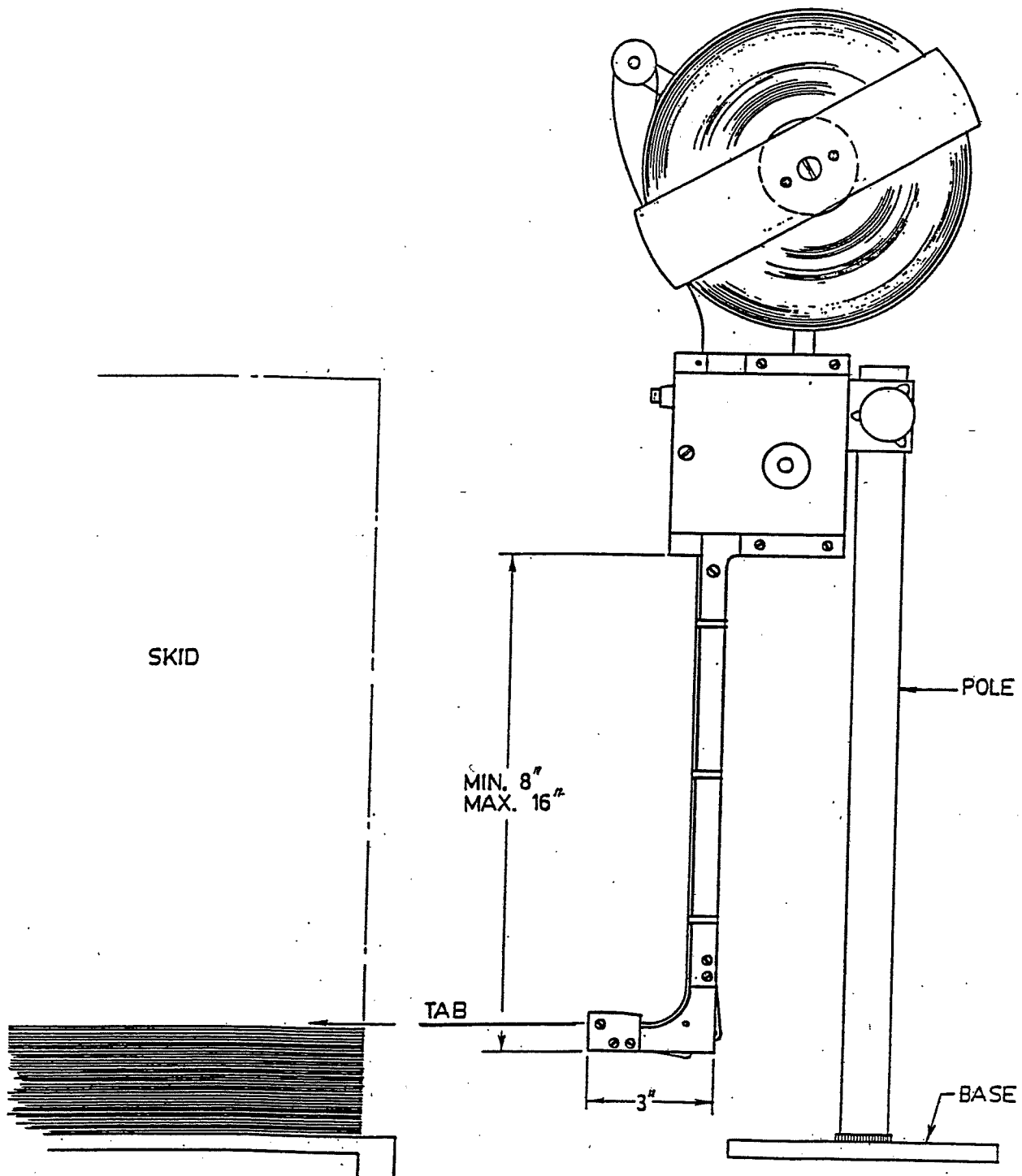
(NOTE: Models prior to the year 2000, press tape cut on ECU until tape cuts.)

# TWO HEAD MOUNTING ILLUSTRATION

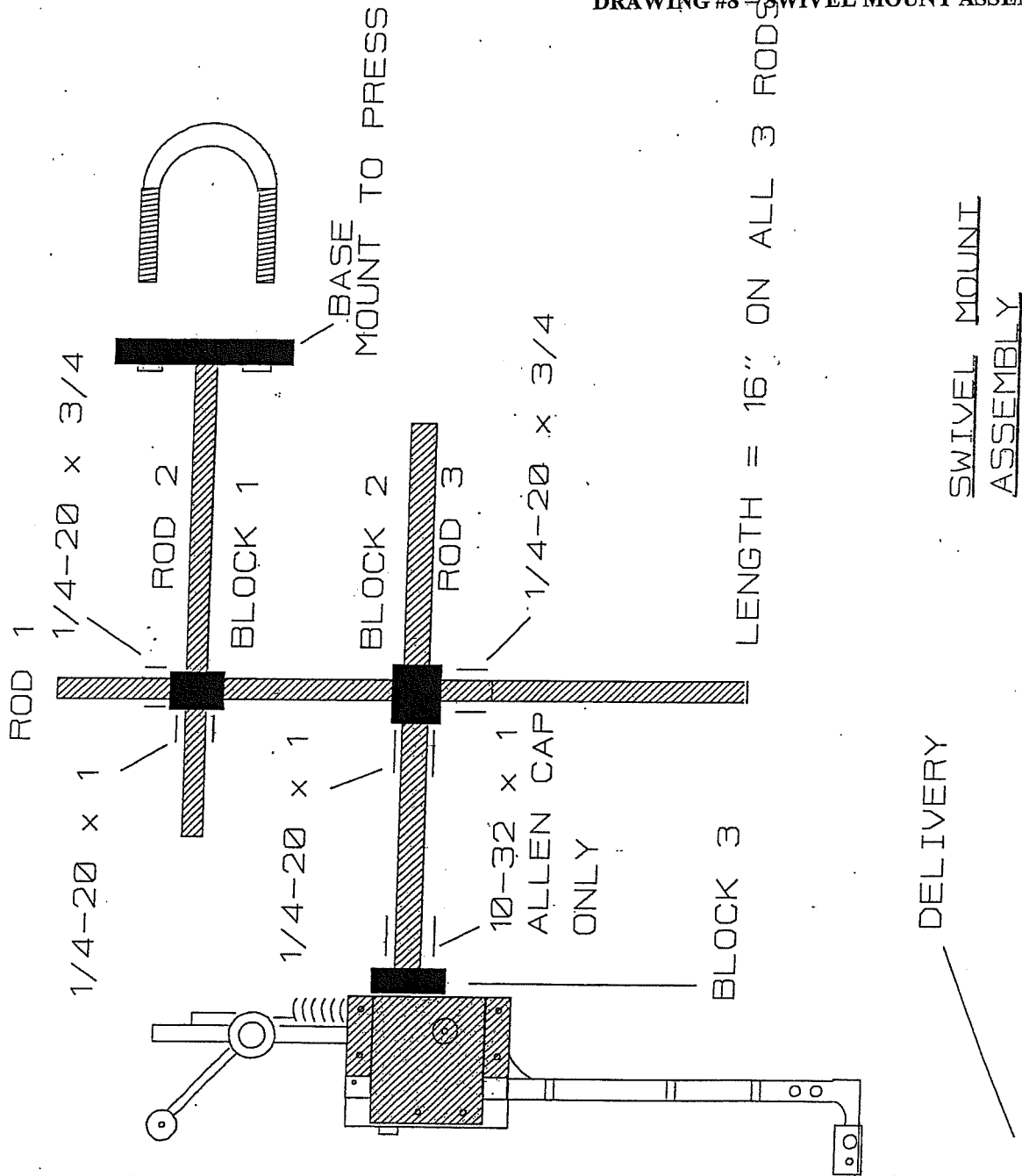
End View Shown



DRAWING #7 - OPTIONAL 90° TABBING HEAD  
**OPTIONAL 90°  
TABBING HEAD**

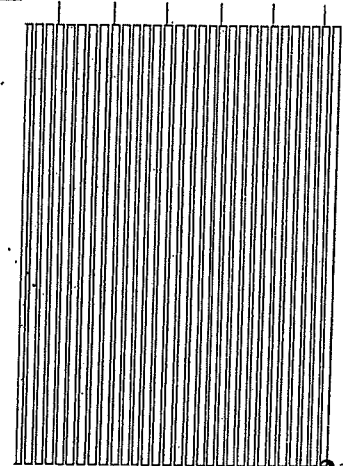


DRAWING #8 - SWIVEL MOUNT ASSEMBLY



SWIVEL MOUNT ASSEMBLY

DELIVERY



## **SECTION 4: HEAD DISTRIBUTION SYSTEM**

## **SHOOTER 3- 5 HEAD DISTRIBUTION SYSTEM**

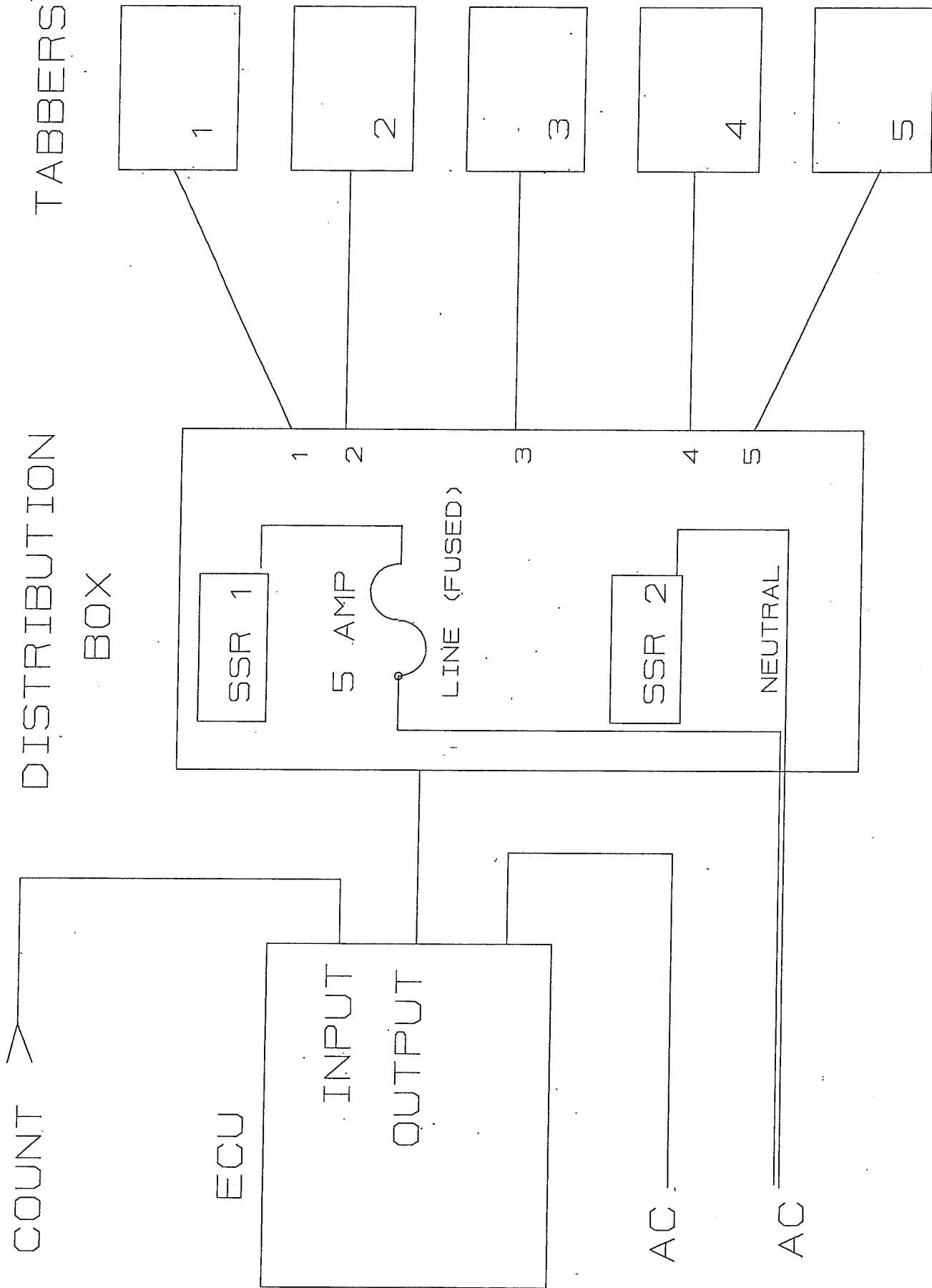
1. Connect output of ECU to ECU input (Fig. 9B, #3, p.26) on the Distribution Box using the 6' cord.
2. Connect each Tabbing Head to the Distribution Box by connecting one of the longer cords from the Distribution Box output (Fig. 9A, #2, p.25) to the Tabbing Head.
3. The power switches on the Distribution Box (Fig. 9A, #1, P25) control the AC power to each Tabber. This allows the operator to disable any number of Tabbers not being used.

**CAUTION: There is a low level line voltage present at each Tabber when the Distribution Box is plugged into the AC line!!**

**DISCONNECT AC POWER FROM DISTRIBUTION BOX, OR DISCONNECT TABBER FROM DISTRIBUTION BOX BEFORE SERVICING ANY TABBING HEAD.**

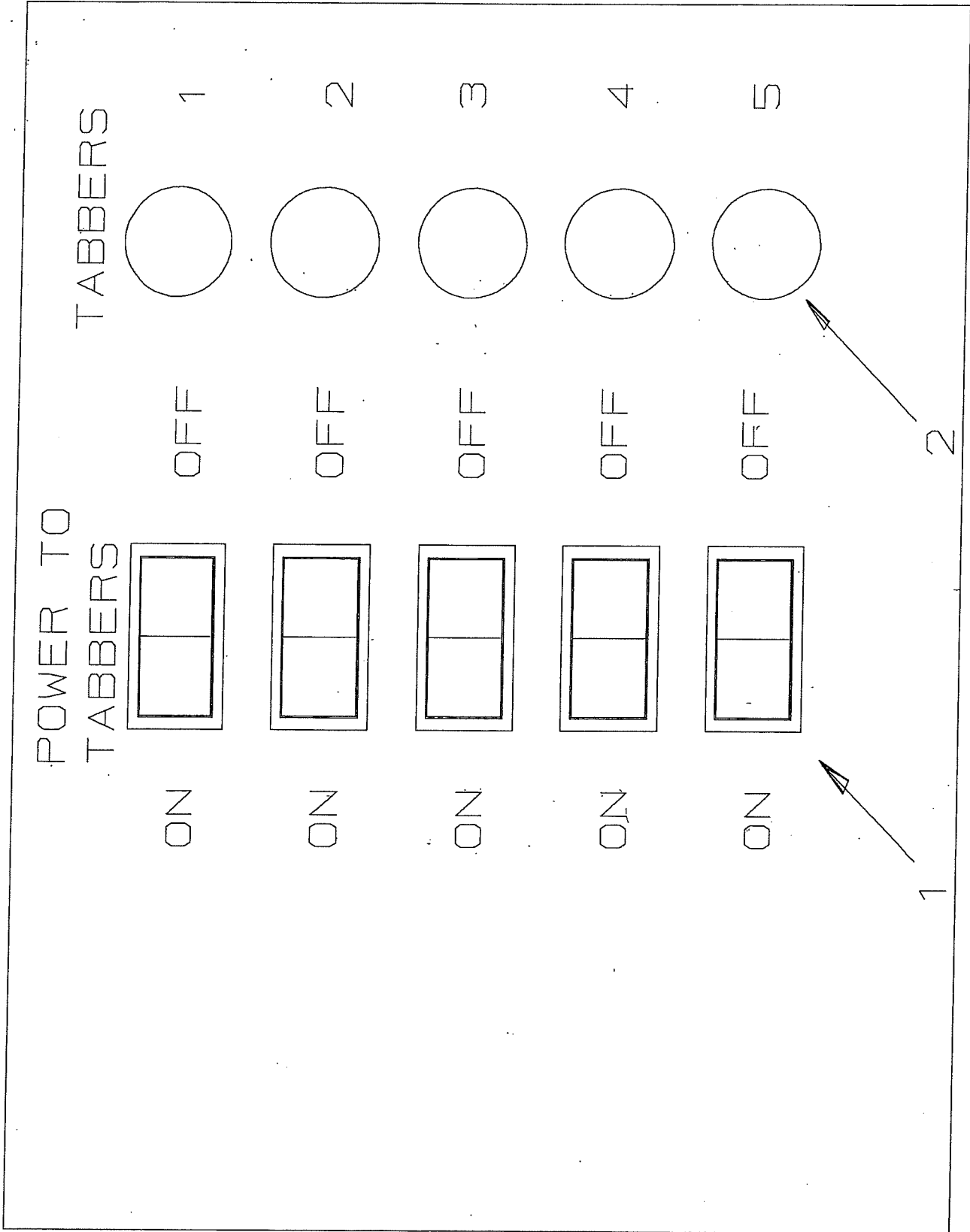
4. The Distribution Box requires 110 V AC to operate. The line is fused internally with a 5-amp fuse.

DISTRIBUTION BOX PICTURE (5 TABBING HEADS) DRAWING #9



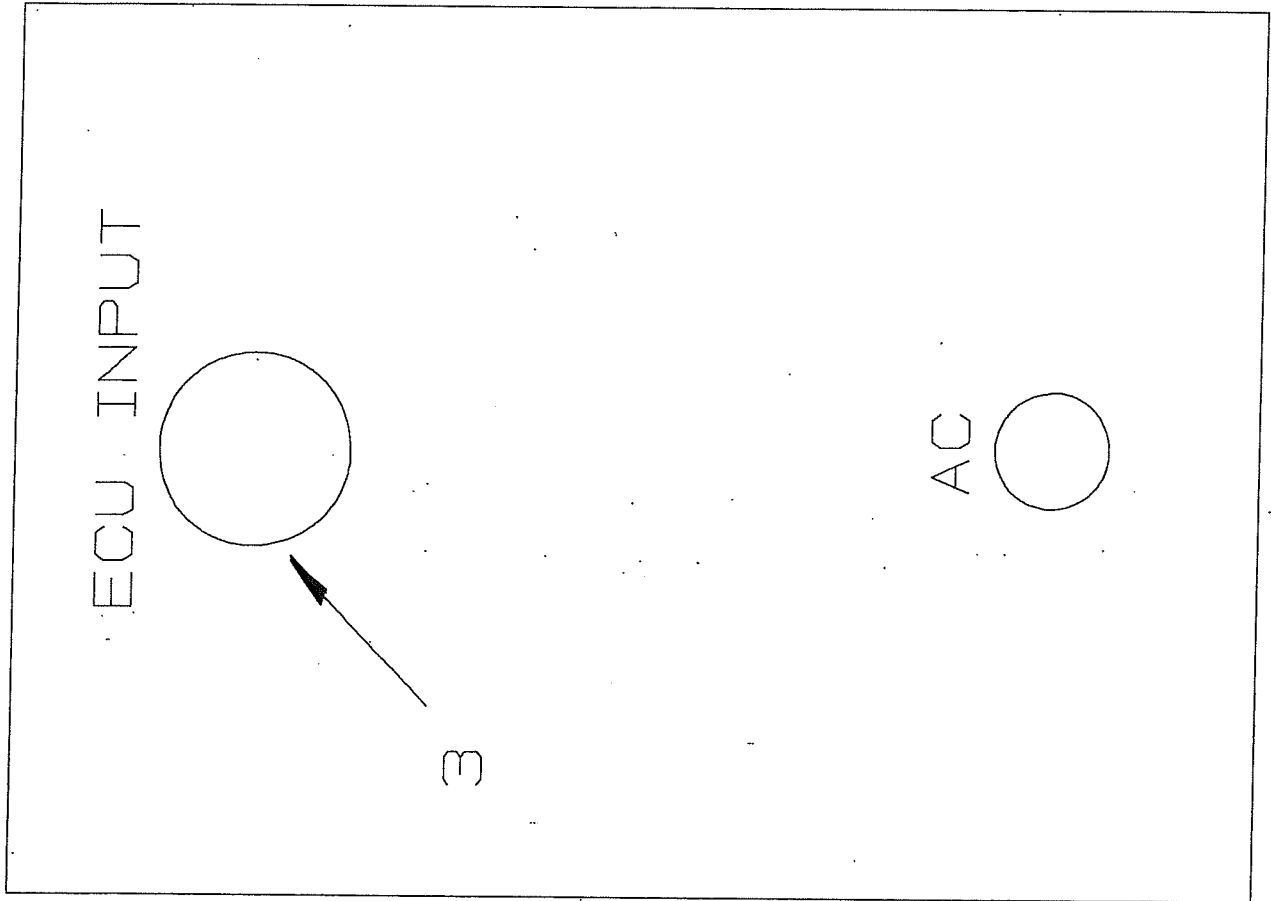
DISTRIBUTION BOX

FIG. A





**FIG. B**





**SECTION #5: OPERATION**

## OPERATION

### **Setting Batch Size:**

1. From the main screen, press the "Enter" key on the control panel. You will notice that there will be a cursor flashing where the batch amount will be set.
2. By using the numbered function keys, enter the desired batch increment. (This is the number where you wish the tabs to be fired into the pile.)
3. Press the "Enter" key again to set the desired batch number.

**Setting the Knife Delay:** (This is number of sheets you want to fall after the tab has been inserted to the pile.)

1. Press "2" to access the knife delay setting screen.
2. Press the "Enter" key. You will notice that there will be a cursor flashing where the knife delay will be set.
3. Using the numbered function keys, enter the desired number of sheets to fall before the knife cuts the tab being inserted into the pile.
4. Press the "Enter" key again to set the desired number.
5. Press "1" to return to the main screen.

### **Setting the Tape Length:**

1. Press "3" to access the tape length setting screen.
2. Press the "Enter" key. You will notice that there will be a cursor flashing where the tape length setting is set.
3. Using the numbered function key, enter the desired number for the tape length. (The higher the number the longer the tab will be.)
4. Press the "Enter" key again to set that number.
5. Press "1" to return to the main screen.

### **Resetting the Total to Zero:**

1. Press the "0" key.

### **Resetting the Batch Counter to Zero:**

1. Press the "9" key.

### **Auto Tape Feed:**

1. Press the "5" key.

### **Auto Knife Cut:**

1. Press the "6" key.

## INKING DYE MARKER

(Refer. Drawing #15, Page 50)

1. Remove cover.
2. Put a drop of ink on each ink roller.
3. Hold in solenoid plunger, while turning the tape feed knob. Ink will transfer to the pinch roller, and excess ink will be removed via the insert tape while turning the feed knob.
4. Release solenoid plunger and continue to turn feed knob until tape is free from dye mark. Cut tape and replace cover.



**SECTION #6: BASIC ADJUSTMENTS & MAINTENANCE**

## CHANGING TAPE CHUTE ASSEMBLY

(Refer to Drawing #14, Page 48)

1. Remove Tape Feed Knob and Loader Box Assembly.
2. Carefully remove Front and Back Covers.
3. Remove Knife Return Spring.
4. Remove Spring Clip from Knife Assembly. Slide off and remove Threaded Rod.
5. Remove Tape Chute Mounting Bolts from chassis and gently lift out old Tape Chute.
6. Replace new Tape Chute, adjusting so Tape Drive Belt protrudes .05" above Chute surface. Tighten screws securely.
7. Replace Knife Return Spring.
8. Replace Loader Box and Front Cover as described in this section.
9. Replace Tape Feed Knob and Back Cover.

## CUSTOMIZING TAPE CHUTE LENGTH

(DO NOT ATTEMPT WITHOUT FIRST CONSULTING U.S. PAPER COUNTERS)

1. Remove Tape Feed Knob and Loader Box Assembly.
2. Carefully remove Front and Back Cover.
3. Remove Knife Return Spring.
4. Remove Spring Clip from Knife Assembly. Slide off and remove Threaded Rod.
5. Remove Tape Chute Mounting Bolts from chassis. Gently lift out Tape Chute.
6. Remove Knife Housing Assembly from Tape Chute (**NOTE: Do not remove Knife from housing**).
7. Carefully remove Plastic Tape Chute Cover.
8. Cut Tape Chute to desired length - minus 3/4" (19mm) to allow for Tape Knife Housing Assembly.
9. Match chamber on the end of the Chute, using discarded original end as a template.
10. From front end of Chute, measure .85" (21.6mm) and scribe a line.
11. Place Knife Housing Assembly on Tape Chute, aligning with scribed marks.
12. Place a double thickness of Insert Tape between Chute and Knife Housing Assembly, as a spacer, and clamp securely. Mark and drill mounting screw holes. Tap to 6/32" thread.
13. Trim Plastic Tape Chute Cover to fit new dimensions and fasten with double-faced tape.
14. From the Threaded Rod, remove Pivot Block and Nut from one end and cut off the same length that was removed from the Tape Chute.
15. Replace Nut and Pivot Block on Threaded Rod. (Do Not Tighten).

(Continued on following page)



### **("Customizing Tape Chute Length", Continued)**

16. Replace Tape Chute, adjusting so Tape Drive Belt protrudes .05" above Chute surface. Tighten screws securely.
17. Replace Threaded Rod, placing tightened end on pin located at the rear of the Tape Chute Assembly.
18. Adjust remaining Pivot Block on Threaded Rod to insure that Knife will fully close when activated, and hole is fully opened when Knife is at rest. Tighten nut to maintain Pivot Block position. Attach to Knife and secure with spring clip.
19. Replace Knife Return Spring.
20. Replace Loader Box and Front Cover as described in this section.
21. Replace Tape Feed Knob and Back Cover.

### **ALIGNMENT OF LOADER BOX**

(Refer. Drawing #11, Page 42)

1. Place Loader Box and Front Cover in position and fasten Front Cover with 4 small allen screws. Screw in large Loader Box screw but do not tighten.
2. Adjust pressure of Loader Box against Tape Chute until tape moves freely through Chute, using Tape Feed Knob.
3. Tighten screw.

**NOTE:** If after securing Loader Box, Tape Feed Knob appears stiff and hard to manually turn, loosen pressure slightly between Loader Box and Tape Chute. If Knob spins freely but tape seems to slip and does not move in a steady motion, increase pressure slightly between Loader Box and Tape Chute.

### **CHANGING TAPE DRIVE BELT**

(Refer. Drawing #11, Page 42)

1. Remove Tape Drive Knob and Loader Box Assembly.
2. Remove Front Cover.
3. Remove Shoulder Bolt holding large pulley. Remove pulley.
4. Place new belt on small pulley and replace large pulley with shoulder bolt. Tighten securely.
5. Replace Cover, Loader Box and Knob.

**NOTE:** Align Loader Box as described in Basic Adjustments Section.

## MARKER ALIGNMENT

1. Remove cover
2. Loosen solenoid mounting bracket screws. Slide bracket forward until solenoid plunger bottoms.
3. Slide bracket back slightly so plunger slides freely in and out of solenoid.
4. Depress solenoid plunger by hand, then release. Plunger must return freely. If not, check linkage for obstruction and adjust.
5. Tighten mounting bracket screws.
6. Advance tape through the chute using the manual feed knob. At the same time depress by hand the solenoid plunger. Dye rollers should be rolling freely and marking the tape. If not, adjust the mounting plate either up or down.
7. Release the solenoid plunger and advance the tape. Rollers should not be marking the tape. If marking still occurs, adjust backstop until rollers are not making contact with the tape while solenoid plunger is released.

## MAINTENANCE

1. As needed, remove Front and Back Covers and blow out any accumulated paper dust from Loader Box and surrounding area.
2. Blow out accumulated dust, powder, etc. from Knife Assembly. (**NOTE: DO NOT LUBRICATE KNIFE ASSEMBLY**).
3. Check all screws, nuts, etc. to determine tightness.
4. Using a Q-tip and alcohol, or similar fluid, clean any ink build-up from the ink and punch rollers and roller shafts to allow free spinning.

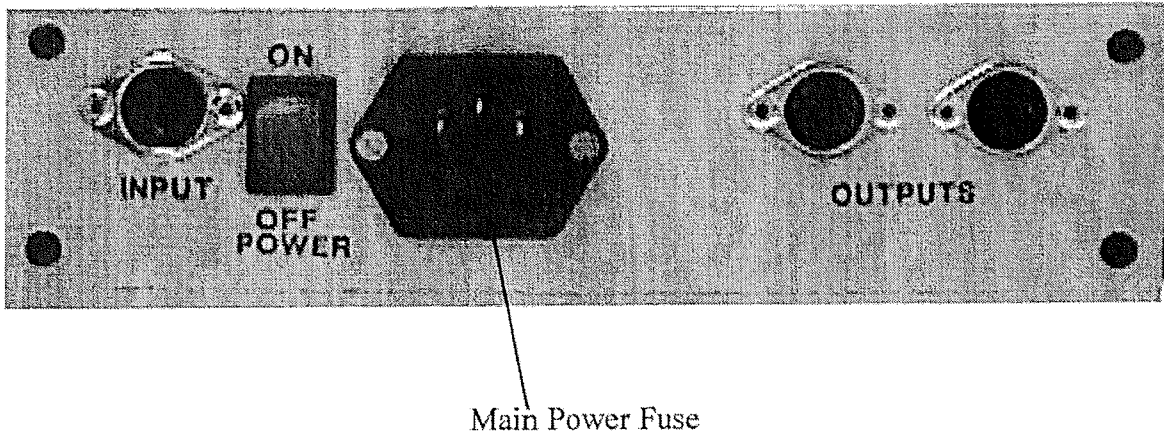
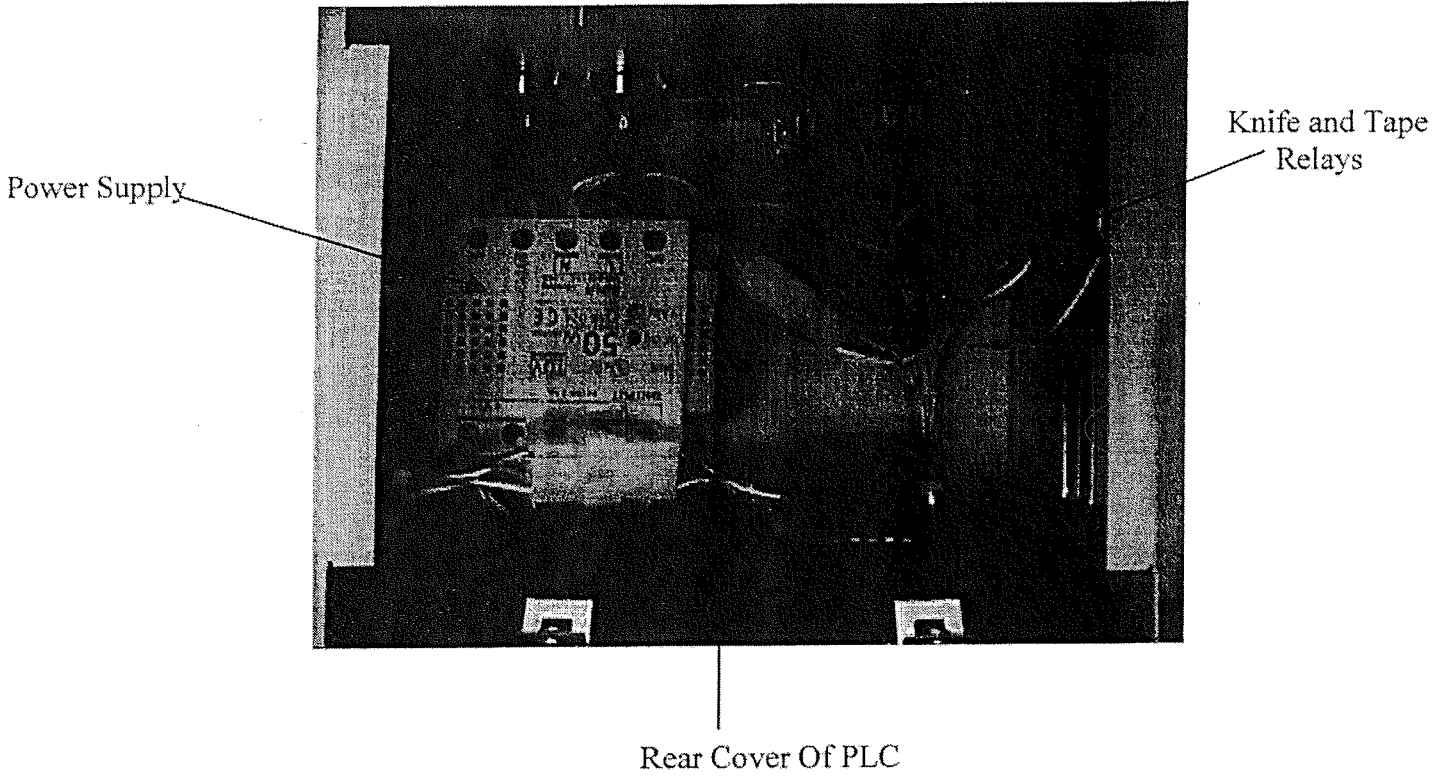
## **SECTION #7: ELECTRICAL SYSTEM**

**\*\*\*\* CAUTION \*\*\*\***

**DISCONNECT POWER CORD BEFORE SERVICING  
ELECTRONIC COUNTING  
UNIT (ECU) OR TABBING HEAD.**



DRAWING/PICTURE # 10, ELECTRICAL SYSTEM





**SECTION #8: PARTS LIST**

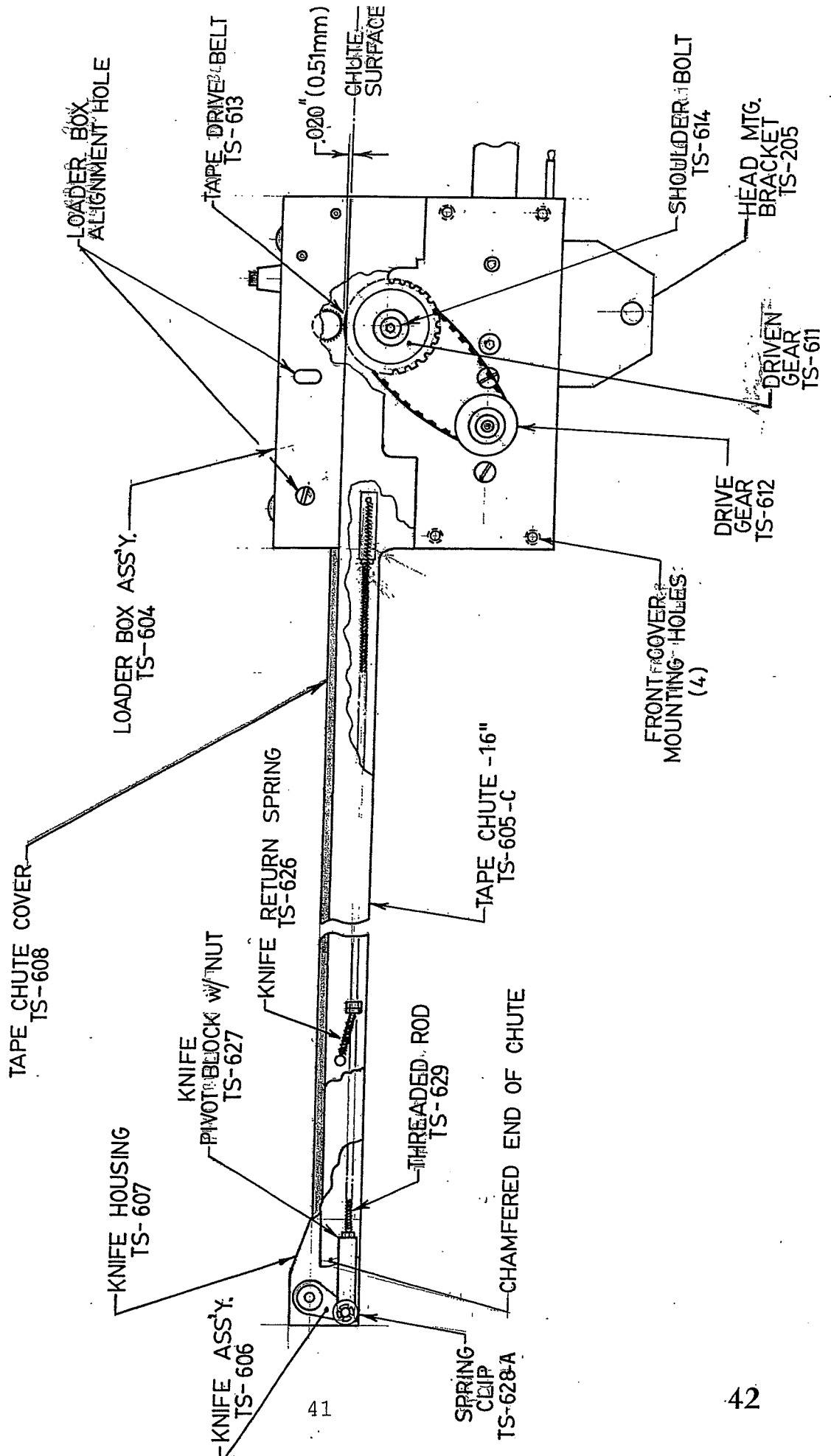
**DRAWING # 11 (P.42) Tabbing Head Parts List**

TS-606	Knife Assembly
TS-607	Knife Housing
TS-628-A	Spring Clip
TS-627	Knife Pivot Block
TS-629-C	Threaded Rod-16"
TS-605-C	Tape Chute-16"
TS-608-C	Plastic Chute Cover-16"
TS-626	Knife Return Spring
TS-604	Loader Assembly
TS-613	Drive Belt
TS-611	Driven Gear
TS-614-A	Shoulder Bolt
TS-205	Head Mounting Bracket
TS-612	Drive Gear
TS-602	Rear Cover

**NOT SHOWN**

TS-622	Tape Reel Cover Ass'y
--------	-----------------------

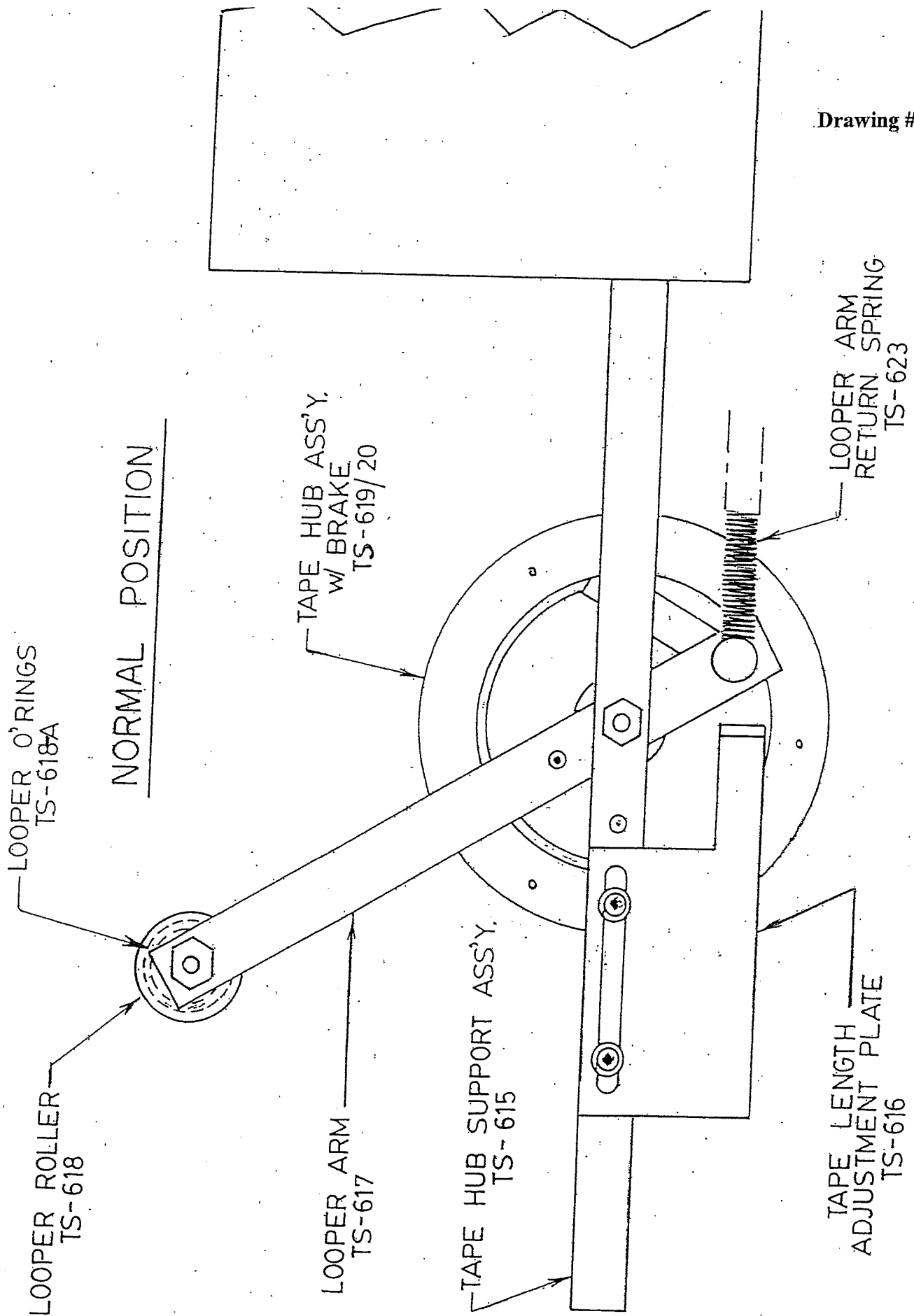




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**DRAWING # 12 – Tape Hub Assembly (P. 44)**

TS-619	Tape Hub Assembly
TS-620	Brake Assembly
TS-618	Looper Roller
TS-618-A	O-Rings (3 per unit)
TS-617	Looper Arm
TS-623	Return Spring
TS-616	Tape Length Adjustment Plate
TS-615	Tape Hub Support



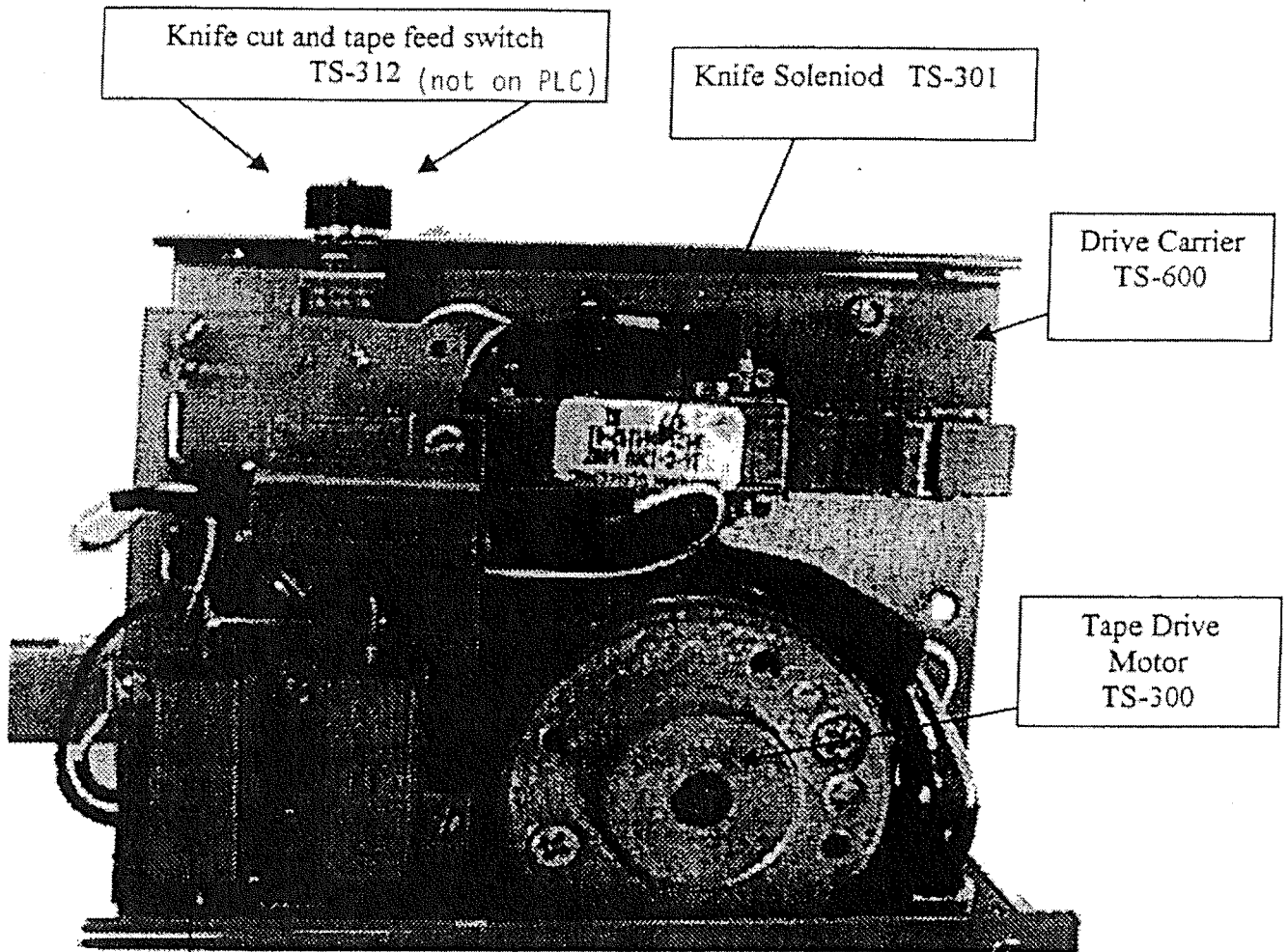
**DRAWING/PICTURE # 13, \*\*Resistor Plate Assembly (P. 46)**

**\*\* (FOR UNITS PRIOR TO 2000, STANDARD SHOOTER ONLY)**

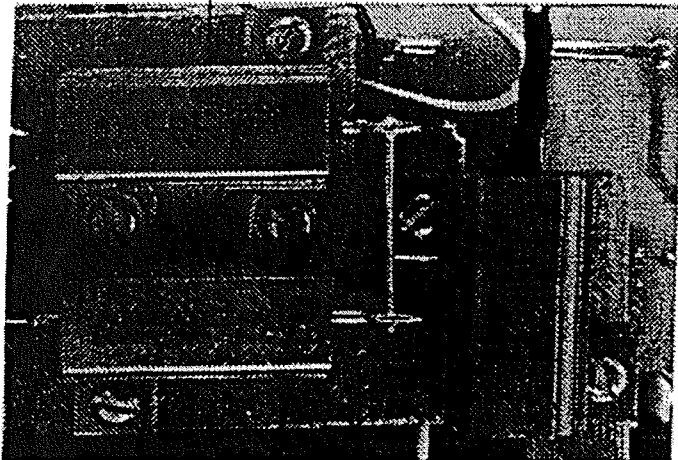
TS-312	Auto Tape Feed (Not installed on -II unit)
TS-301	Solenoid 110 VAC
TS-600	Drive Carrier (not sold separately)
TS-300	Drive Motor
TS-302-A/B	Resistor Mounting Plate Ass'y (Not installed on -II Unit)
TS-303	6 AMP Rectifier (Not installed on -II unit)
TS-302	25 W Resistor (Not installed on -II unit)
TS-312-B	15 W Resistor (not installed on -II unit)

\*\*Drawing # 13, Resistor Plate Assembly

(SHOOTERS PRIOR TO 2000)



Resistor plate Assy

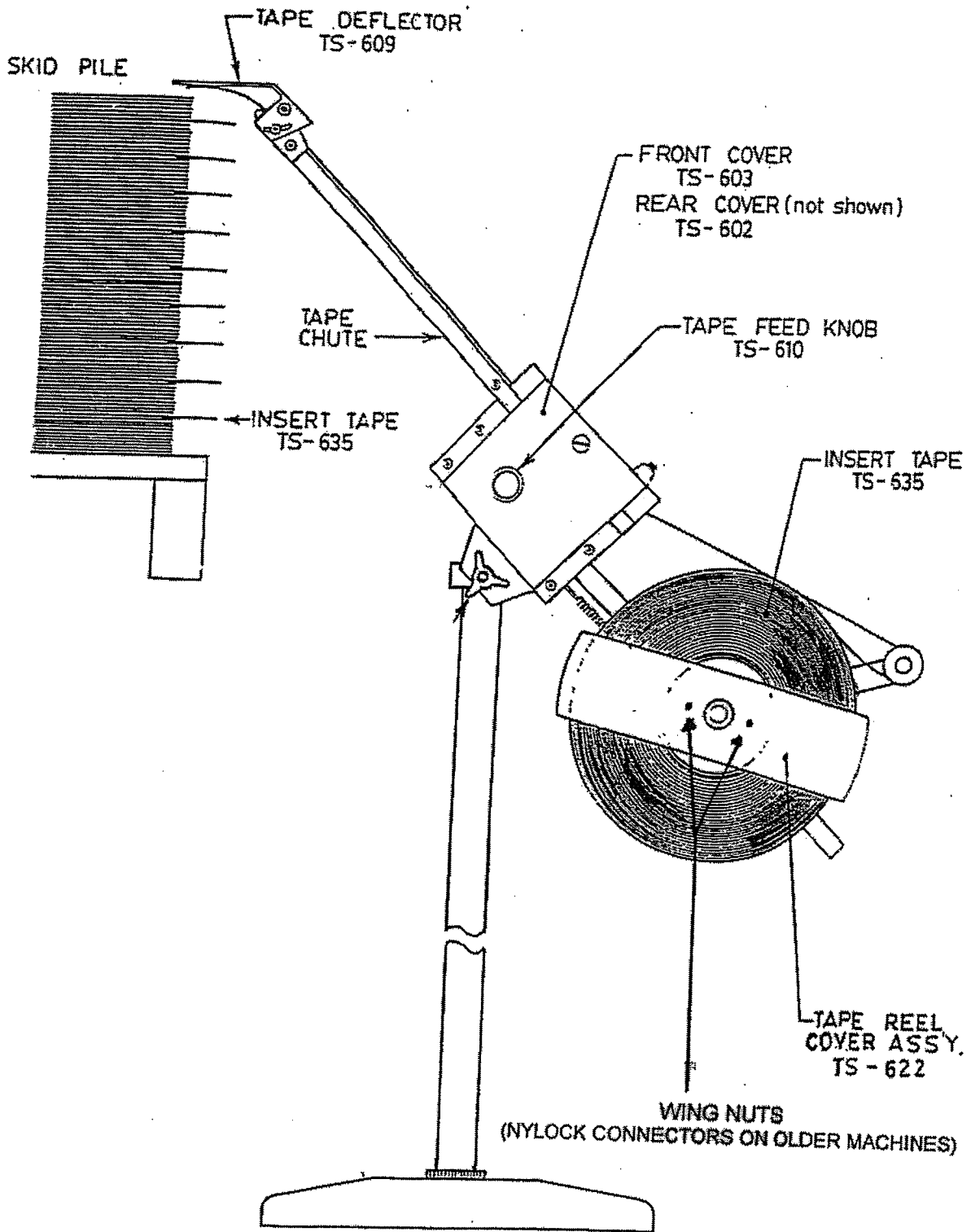


Includes  
6 AMP Rectifier TS-303  
25 W Resistor TS-302  
15 W Resistor TS-312-B

**DRAWING # 14, Parts List with Tape Deflector (p.48)**

TS-609	Tape Deflector (Optional)
TS-603	Front Cover
TS-602	Rear Cover (not shown)
TS-610	Tape Feed Knob
TS-622	Tape Reel Cover Assembly
TS-622-E	1/4-20 Wing Nuts (Older models may have NyLock Connectors)
TS-635	Insert Tape (20 rolls per case)

**Drawing # 14, Tape Deflector with Parts List**

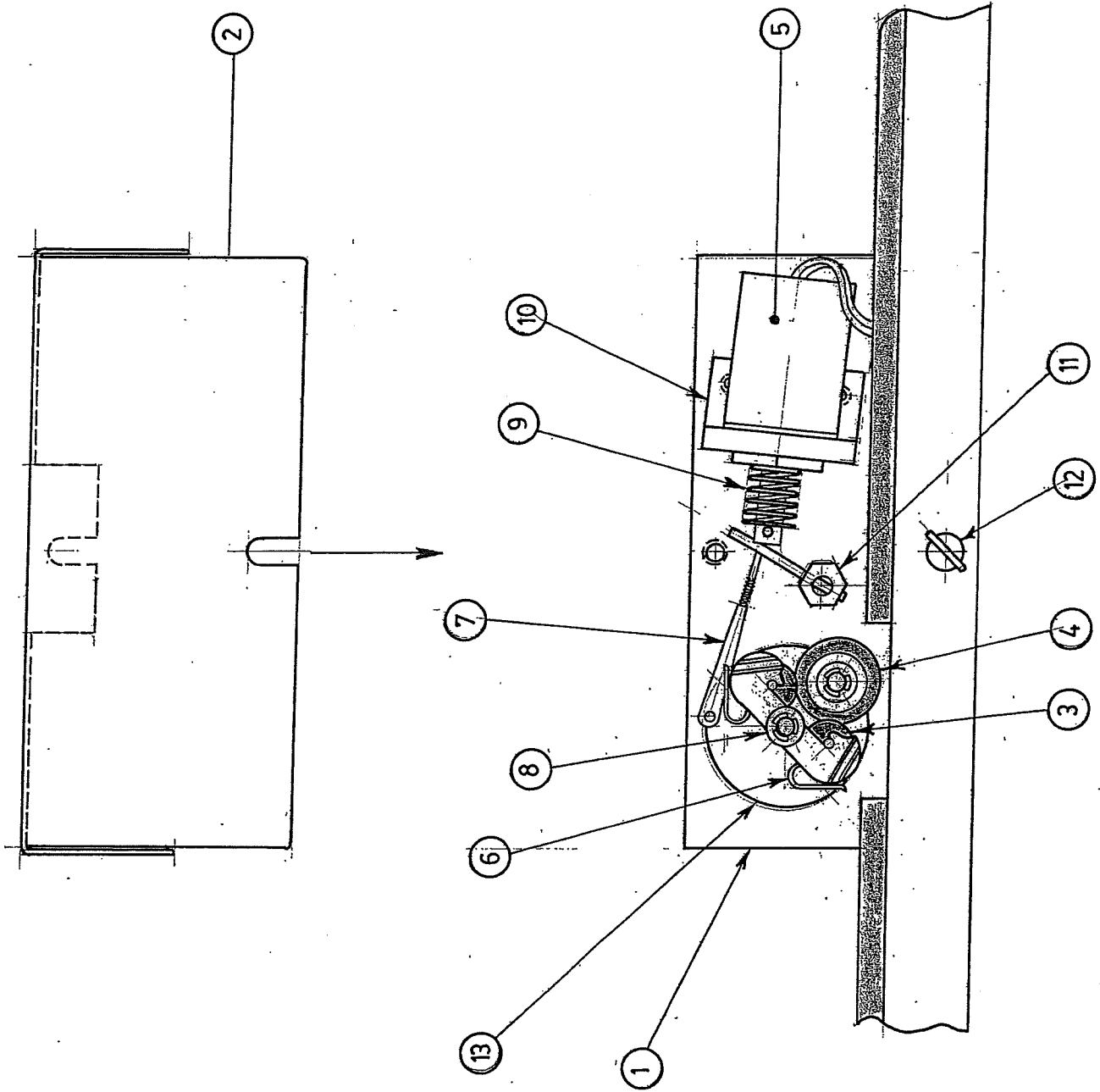


**DRAWING # 15, RED DYE MARKER (p. 50)**

<b><u>KEY</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>PART NO.</u></b>
1	Inker Mounting Plate	TS-501
2	Inker Cover	TS-502
3	Ink Roller (2)	TS-503
4	Pinch Roller	TS-504
5	Solenoid	TS-508
6	Ink Roller Spring	TS-511
7	Connector Link	TS-514
8	Spring Clip	TS-628-A
9	Solenoid Return Spring	S-6042
10	Solenoid Mounting Bracket	TS-517
11	Standoff (Backstop)	TS-518
12	Cover Retainer Screws (2)	TS-519
13	Roller Carrier	TS-520
14	Ink (Not Shown)	TS-530



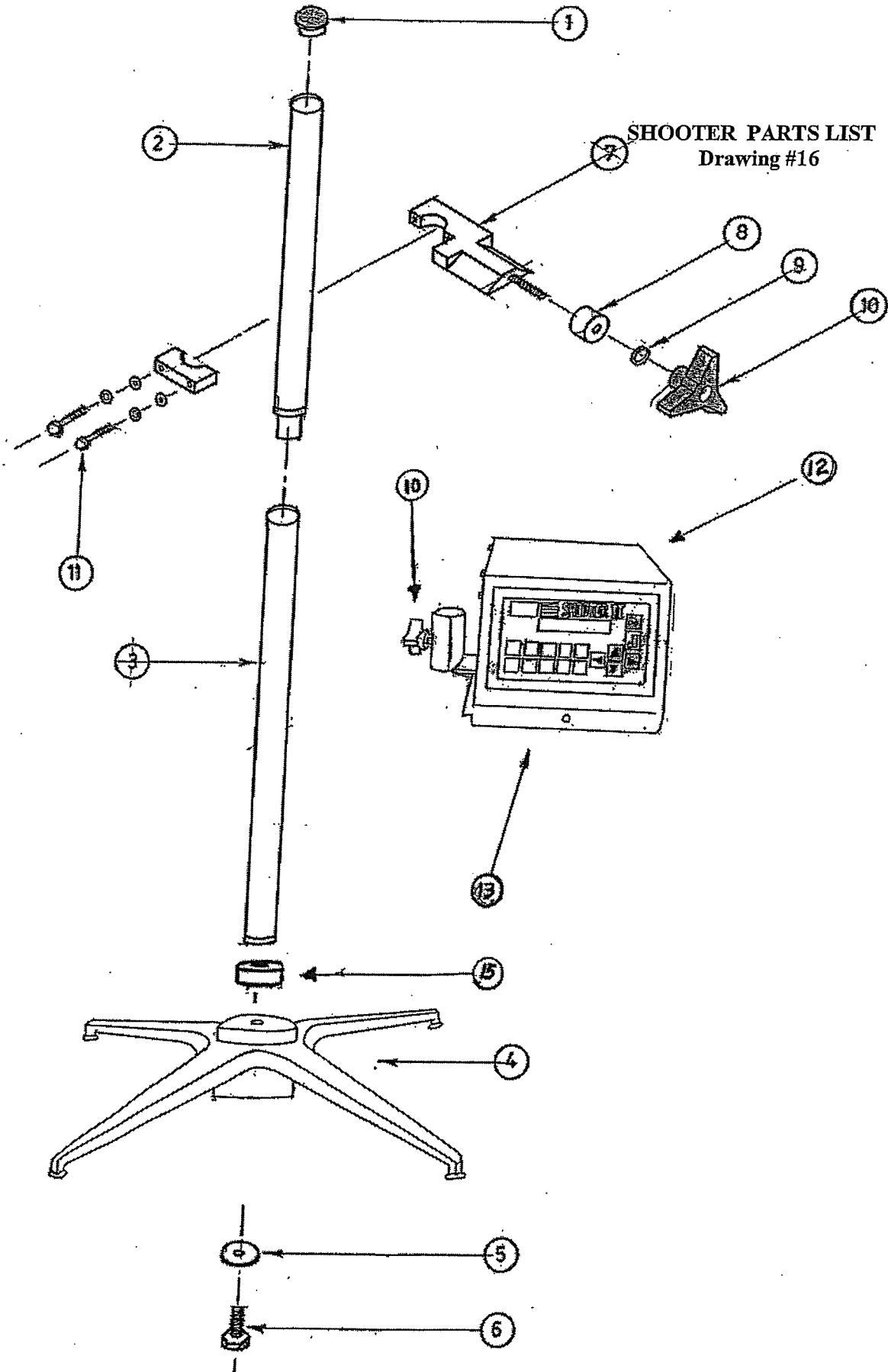
Drawing # 15, RED DYE MARKER



**DRAWING # 16, SHOOTER ASSEMBLY, PARTS LIST (p. 52)**

<b>KEY</b>	<b>DESCRIPTION</b>	<b>PART NO.</b>
1	Pole Plug	TS-207
2	Pole Extension (2' Section)	TS-200-C
3	Base Pole (3' Section)	TS-200-B
4	Stand Base	TS-200-A
5	3/8 Fender Washer	H-286
6	3/8-16 x 1" Hex Mounting Bolt	H-288
7	Head Mounting Bracket (2 pc)	TS-205
8	Spacer	TS-202
9	5/16 Split Lock Washer	H-296
10	Locking Knob	TS-204
11	Bracket Hardware:	
	1/4-20 x 1 1/2" Bolt	H-100
	1/4-20 Star Washer	H-136
	1/4-20 Flat Washer	H-140
12	Main ECU Board	TS-100-A
13	Mounting Plate	TS-208-A
14	ECU Pole Adapter	TS-206-C
15	Base Stand Adapter	TS-200-F

SHOOTER PARTS LIST  
Drawing #16





**U.S. PAPER COUNTERS PARTS & SERVICE**

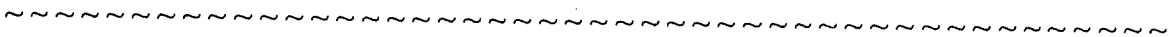
**NOTE: FOR FAST SERVICE, PLEASE USE PART NUMBERS  
WHEN PLACING ORDER!**

**PHONE: (518) 622-2600**

**FAX: (518) 622-2695**

**E-MAIL: [uspc@wecount.com](mailto:uspc@wecount.com)**

**WEB SITE: [www.wecount.com](http://www.wecount.com)**



**MAILING ADDRESS: P.O. BOX 837,  
CAIRO, NY 12413**

**SHIPPING ADDRESS: 138 ELIZABETH TERRACE,  
CAIRO, NY 12413**

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