

U.S. PAPER COUNTERS

SHOOTER or SHARP-SHOOTER-IIB,D

COUNTING / TAB INSERTING MACHINE

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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 June 2015

SECTION #1: WARRANTY

SECTION #2: TECHNICAL DETAILS

U.S. PAPER COUNTERS COUNTER / TAB INSERTER SHOOTER or SHARP-SHOOTER –IIB,D TECHNICAL DETAILS

SPECIFICATIONS:

- * Maximum Height w/Standard Pedestal - 54" (135cm)
- * Minimum Height w/Standard Pedestal - 01" (2.50cm)
- * Shooter Weight - 40 lbs (18kgs)
- * Shipping Weight - 46 lbs (21kgs)
- * Sharp-Shooter Weight - 41 lbs (19kgs)
- * Sharp-Shooter Shipping Weight - 47 lbs (22kgs)
- SHIPPING WEIGHT BASED ON DOMESTIC SHIPMENTS**
- * Standard Electrical -110V AC 3AMP

FEATURES:

- * Counting Speed – equal to your equipment
- * Tab Insertion - 10 Thru 9999
- * Total and Batch Count
- * High Speed Tab Selection
- * Subtract Count
- * Touch Panel Display with Total and Batch Count
- * Variable Tape Length Control
- * Variable Knife Cut Delay
- * Electronics Capable of Driving 2 Tabbings Heads (3 or more with use of optional distribution box)
- * Various Tape Chute Lengths (16" Standard (40cm)) chutes can be made from 8" - 36" additional fee applies.
- * Micro Switch, Electronic Coupling Pick-Up (universal connection) or Optical sensor
- * Spoilage Counter w/Red Tag Inserts (Sharp-Shooter Only)

OPTIONS:

- * Laser Sensor
- * 220V AC Power Supply
- * Pole height Extensions Available
(2 ft (60cm) or 3 ft (90cm))

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

SECTION #3: INSTALLATION

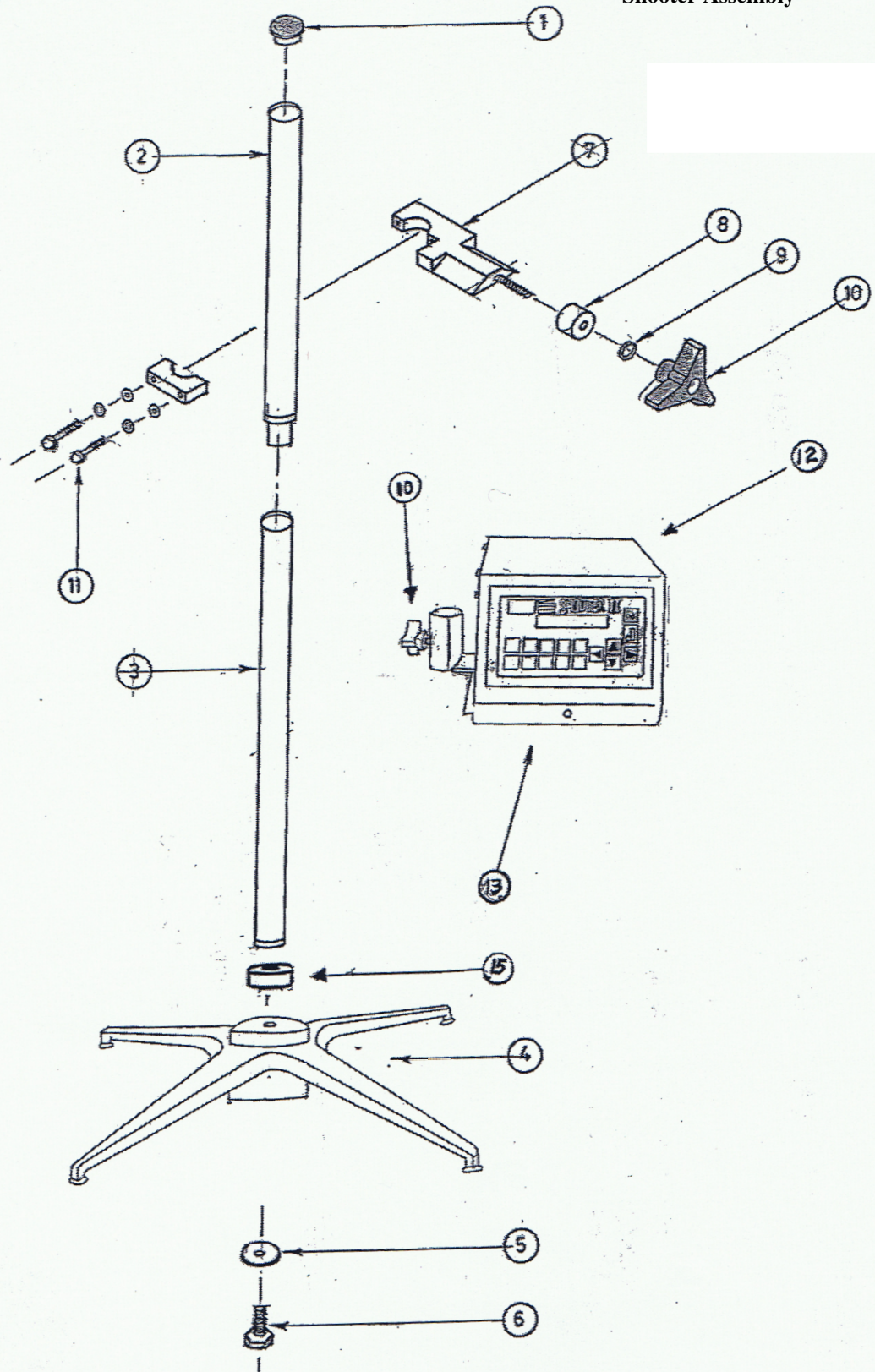
INSTALLATION

1. MOUNTING PICK/UP:

- A. **MICRO SWITCH** - Mounting should be such, that the micro switch receives one pulse per impression.
 - B. **ELECTRONIC COUPLING PICK-UP** or EC Pick up (Universal connection) - Allows for input to the Shooter Electronic Control Unit from the press's existing counter. (NOTE: Requires knowing the input voltage to press's counter.) The EC Pick-up can accept a voltage signal from 0-120V AC or DC (Refer to Page 41)
 - C. **DRY CONTACT:** To be used when no voltage is present. Must be connected to an open/close, make/break, relay or existing micro switch with no voltage. (Refer to Page 40)
 - D. **INFRARED OPTO SENSOR OR LASER-** 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" range.
- 2. Bolt 3' (90cm) stand post into base plate. Insert 2' (60cm) into 3' Section. (Refer. Drawing #1, Page 10.)
 - 3. Remove head locking knob, washer and spacer from mounting block (Refer to Drawing #1, Page 10). 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 #3, Page 13. Replace cover and secure with wing nuts.
 - 5. Attach Electronic Control Unit (#13) to stand assembly and position above or below Tabbing Head as illustrated in Drawing #1, Page 10.
 - 6. Plug 6' cable into output of Electronic Control Unit and input of Tabbing Head.
 - 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. 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. Use of tape deflector or optional 90 deg tabbing head may be needed if placing above or below the pile delivery.

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Drawing #1
Shooter Assembly



DRAWING NO. 1- PARTS LIST

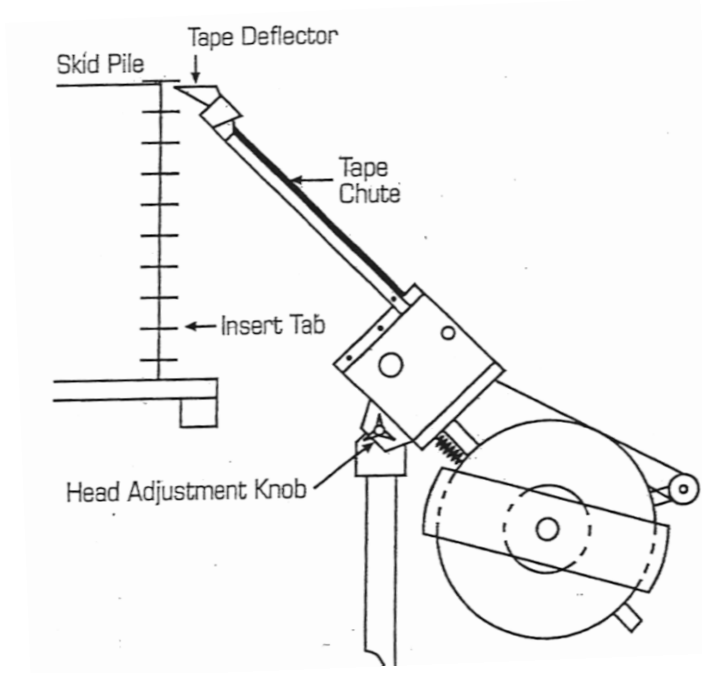
KEY	DESCRIPTION	PART NO.
1	Pole Plug	TS-207
2	Pole Extension (2' Section)	TS-200-C
3	Base Pole (3' Threaded Section)	TS-200-B
4	Stand Base	TS-200-A
5	3/8 Fender Washer	H-286
6	3/8-16 x 1" Hex Mounting Bolt	H-288
7	Head Mounting Bracket (2 pc)	TS-206-1
8	Spacer	TS-202
9	5/16 Split Lock Washer	H-296
10	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	ECU Mounting Adapter	TS-206-B
13	Main Electronic Control Unit (ECU)	TS-100-A
14	ECU Pole Adapter	TS-206-C
15	Base Stand Adapter	TS-200-F

USING THE TAPE DEFLECTOR

Drawing #2

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.

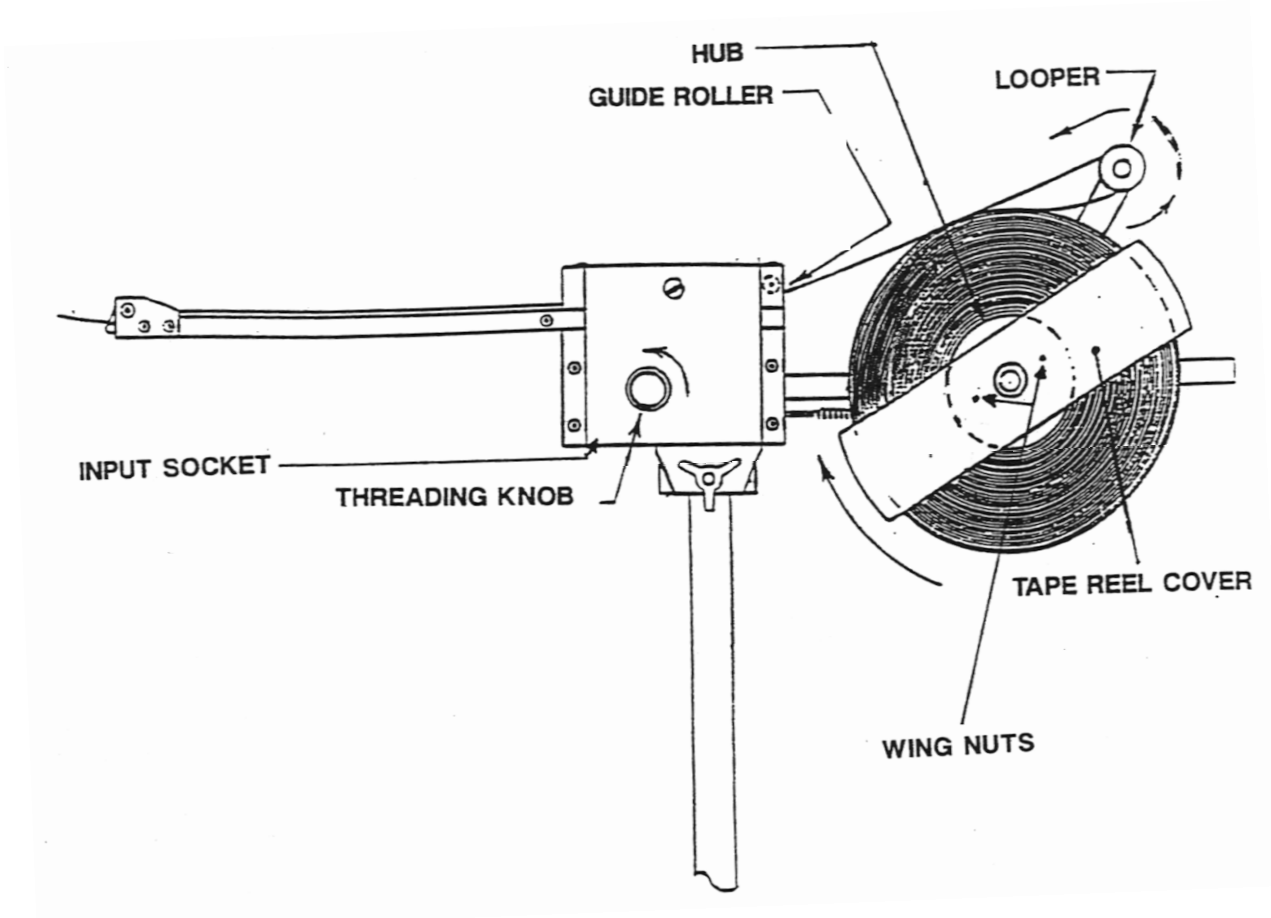
ADDITIONAL RANGES:

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.

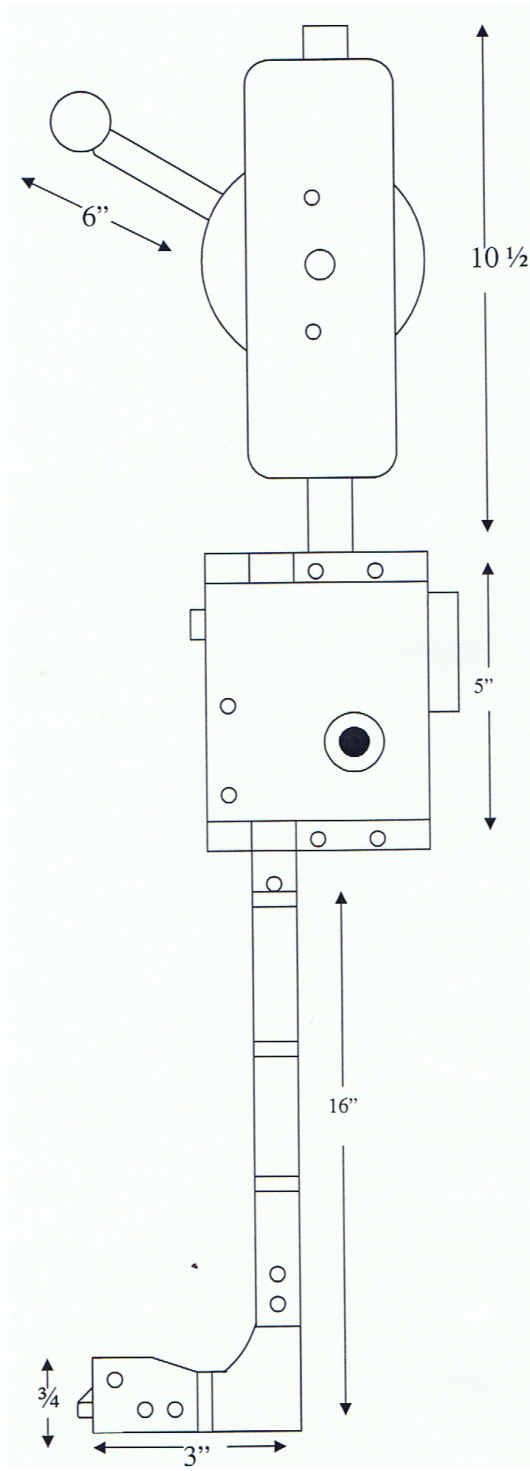
LOADING INSERT TAPE - DRAWING #3

INSERT TAPE(Tabbing Material): 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.

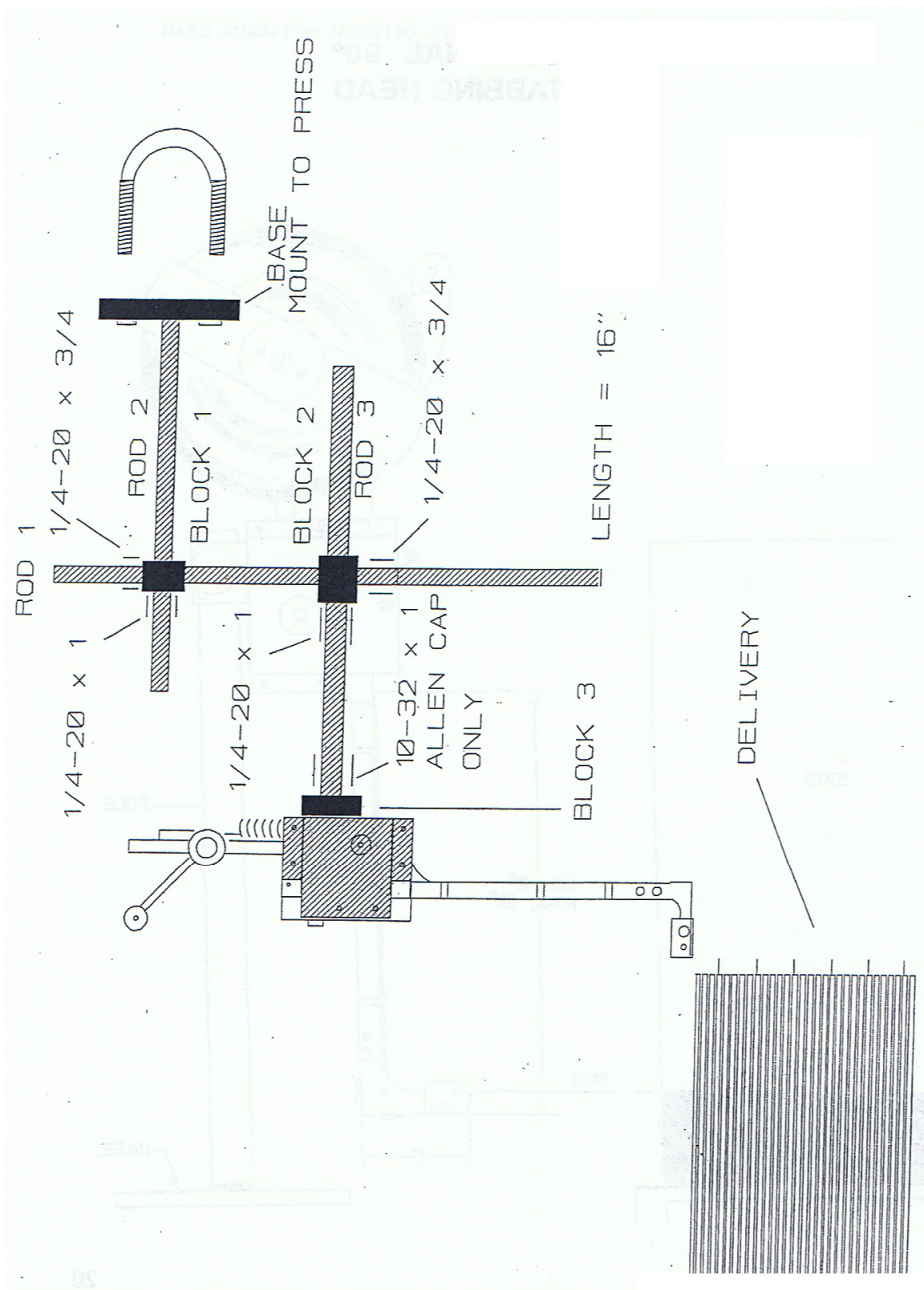


LOADING TAPE: Feed tape roll in a clockwise direction around looper and insert approximately 1-1/2" (3.75cm) into head below guide roller as shown. Then press the "Tape Feed" button until tape appears through the end of the chute. Press the "Knife Cut" button to cut off excess tape from end of chute.

OPTIONAL 90DEG -DRAWING # 4



SWIVEL MOUNT ASSEMBLY – DRAWING #5



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SECTION 4: HEAD DISTRIBUTION SYSTEM

SHOOTER 3 –to- 5 HEAD DISTRIBUTION SYSTEM

1. Connect output of ECU to ECU input 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 to the Tabbing Head.
3. The power switches on the Distribution control the power to each Tabber. This allows the operator to disable any number of Tabbers not being used.
4. The Distribution Box requires 110 VAC to operate.

SECTION #5: OPERATION

OPERATION SHOOTER-IIB
(REFER TO PG. 21 FOR SHOOTER-IID 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 that number.

Setting the “Knife Delay” (How many sheets do you want to fall before cutting tape):

1. Press either the “Left” or “Right” arrow key and scroll to the “Knife Delay Setting” screen.
2. Press the “Enter” key. There will be a cursor flashing where the knife delay will be set.
3. Using the numbered function keys, enter the desired number where you wish your knife to cut after the tab is inserted into the pile.
4. Press the “Enter” key again to set that number.
5. Press the “Left” or “Right” keys again to scroll to the “Main” screen.

Setting the “Tape Length”:

1. Press either the “Left” or “Right” arrow key and scroll to the “Tape Length Setting” screen.
2. Press the “Enter” key. 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 the “Left” or “Right” keys again to scroll to the “Main” screen.

Resetting the Total number of Sheets counted and the total number of “Batches Made” to “Zero”:

Press the “0” key.

Auto Tape Feed:

Press the “Up” arrow key.

Auto Knife Cut:

Press the “Down” arrow key .

Subtract Sheet:

Press the “I” key (located just above the “Enter” button)

OPERATION SHOOTER-IIID

(REFER TO PG. 20 FOR SHOOTER-IIB OPERATION)

Setting Batch Size:

4. From the “**Main**” screen press the currently entered “**Batch Amount**” on the screen. (Note: if you are *not* at the Main Screen press the “F1” key.) When the “**Batch Amount**” is pressed, a keypad will appear.
5. Using the keypad on the screen, enter the desired batch amount. (i.e. the number you want the stack to be separated: 10’s, 25’s, 50’s, etc.)
6. Press the “**Enter**” key to return to the Main Screen (F1).

Setting the “Knife Delay” or “Knife pulse”

DEFINITIONS:

Knife delay: The time elapse from when the tab enters into the stack before the knife cuts the tab.

Knife pulse: The strength of the solenoid that cuts the tab.

6. Press “F2” key to enter the “**Tape / Knife**” setting screen.
7. Press the number currently on the screen. The keypad will appear.
8. Using the keypad, enter the desired amount. **Note: The knife delay is a time delay *not* a sheet count.**
9. Press the “**Enter**” key to return to the “**Tape / Knife**” settings screen.

Setting the “Tape Length”

10. Press “F2” key to enter the “**Tape / Knife**” setting screen.
11. Press the currently entered tape length amount. The keypad will appear.
12. Using the keypad, enter the desired number you wish your tape length to be set to. This is a reference number only it does *not* represent an actual length, increase or decrease the number to lengthen or shorten your tabs.
13. Press the “**Enter**” key to return to the “**Tape / Knife**” settings screen.

Resetting the Total number of Sheets counted and the total number of “Batches Made” to “Zero”:

Press the “**Reset**” Button displayed on the screen.

Auto Tape Feed: Press the “F3” key.

Auto Knife Cut: Press the “F4” key .

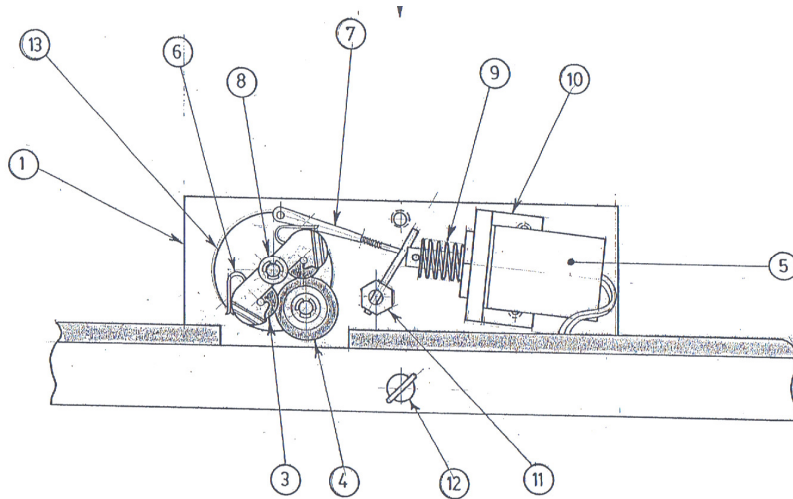
Subtract Sheet: Press the “**Sub**” Button on the screen

Using the Spoilage Counter/ Marking System (Sharp Shooter Option):

1. Press the button on the wireless remote to fire a red striped marked tab into the stack.
The display will now show only the spoilage or waste sheet count. And the tabbing function will stop until the button on the remote is pressed again.
2. Press the button again on the wireless remote to fire another red striped tab into the stack.
The display will now return to the “Main Screen” of operation and tabbing will resume.

INKING DYE MARKER (Drawing #6)

1. Remove cover.
2. Put drop of ink on each ink roller (#3)
3. Hold in solenoid plunger (#9), 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.



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

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SECTION #6: BASIC ADJUSTMENTS & MAINTENANCE

CHANGING TAPE CHUTE ASSEMBLY

(Note: This is not recommended to do in the field. U.S. Paper Counters recommends that you send the tabbing head to them and have one of our trained service techs install the new chute.)

(Refer to drawing #7, page 28)

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

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).
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 to drawing #7, page 28)

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 (with tape feed knob facing you adjust right side of loader box only, left side stays flush with 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 (right side only).

CHANGING TAPE DRIVE BELT

(refer to drawing #7, page 28)

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.

MARKER ALIGNMENT

(Refer to drawing #10, page 34)

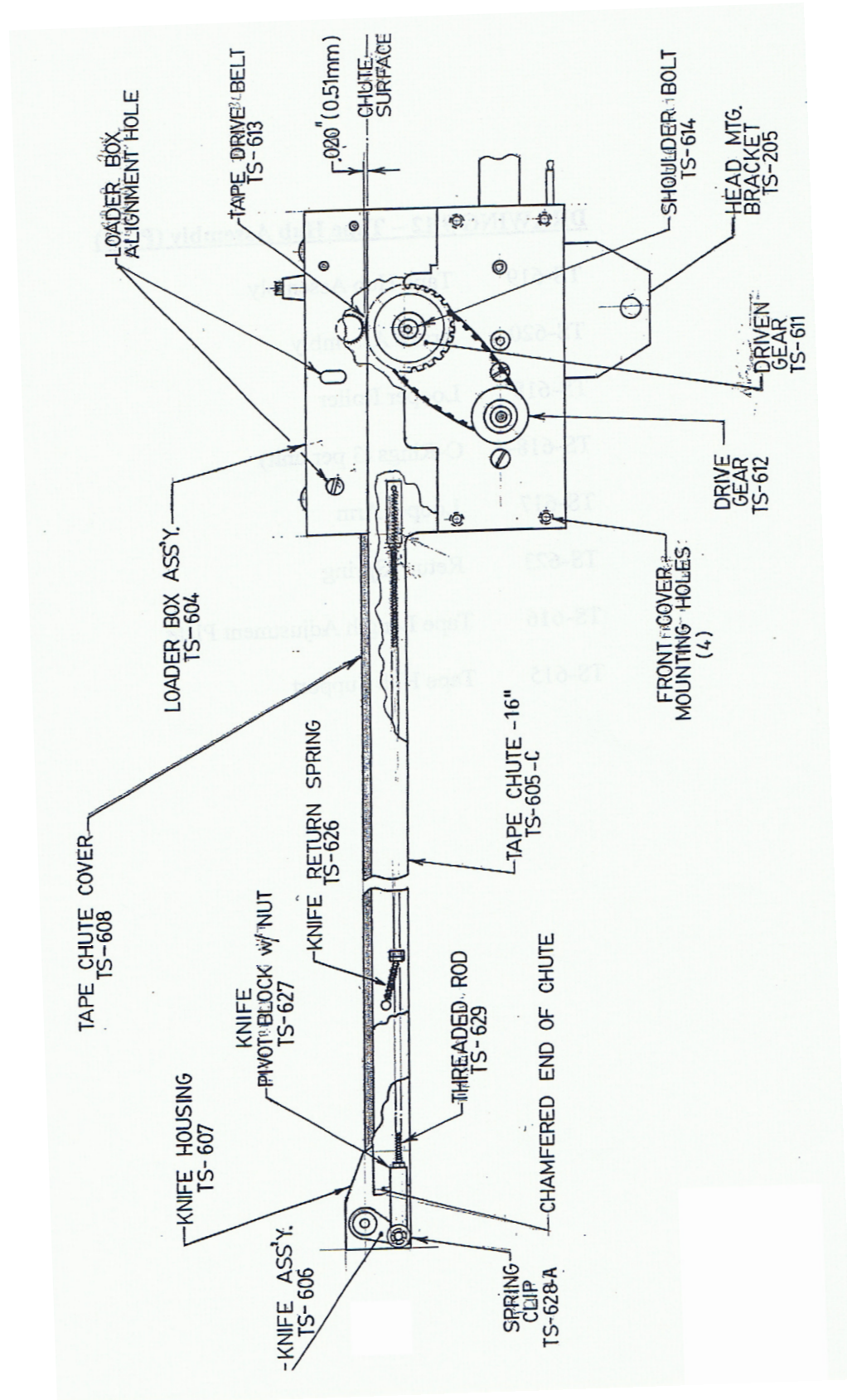
2. Remove cover
3. Loosen solenoid mounting bracket screws. Slide bracket forward until solenoid plunger bottoms.
4. Slide bracket back slightly so plunger slides freely in and out of solenoid.
5. Depress solenoid plunger by hand, then release. Plunger must return freely. If not, check linkage for obstruction and adjust.
6. Tighten mounting bracket screws.
7. 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.
8. 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 contacting the tape while solenoid plunger is released.

MAINTENANCE

9. As needed, remove Front and Back Covers and blow out any accumulated paper dust from Loader Box and surrounding area.
10. Blow out accumulated dust, powder, etc. from Knife Assembly. **(NOTE: DO NOT LUBRICATE KNIFE ASSEMBLY).**
11. Check all screws, nuts, etc. to ascertain tightness.
12. 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:

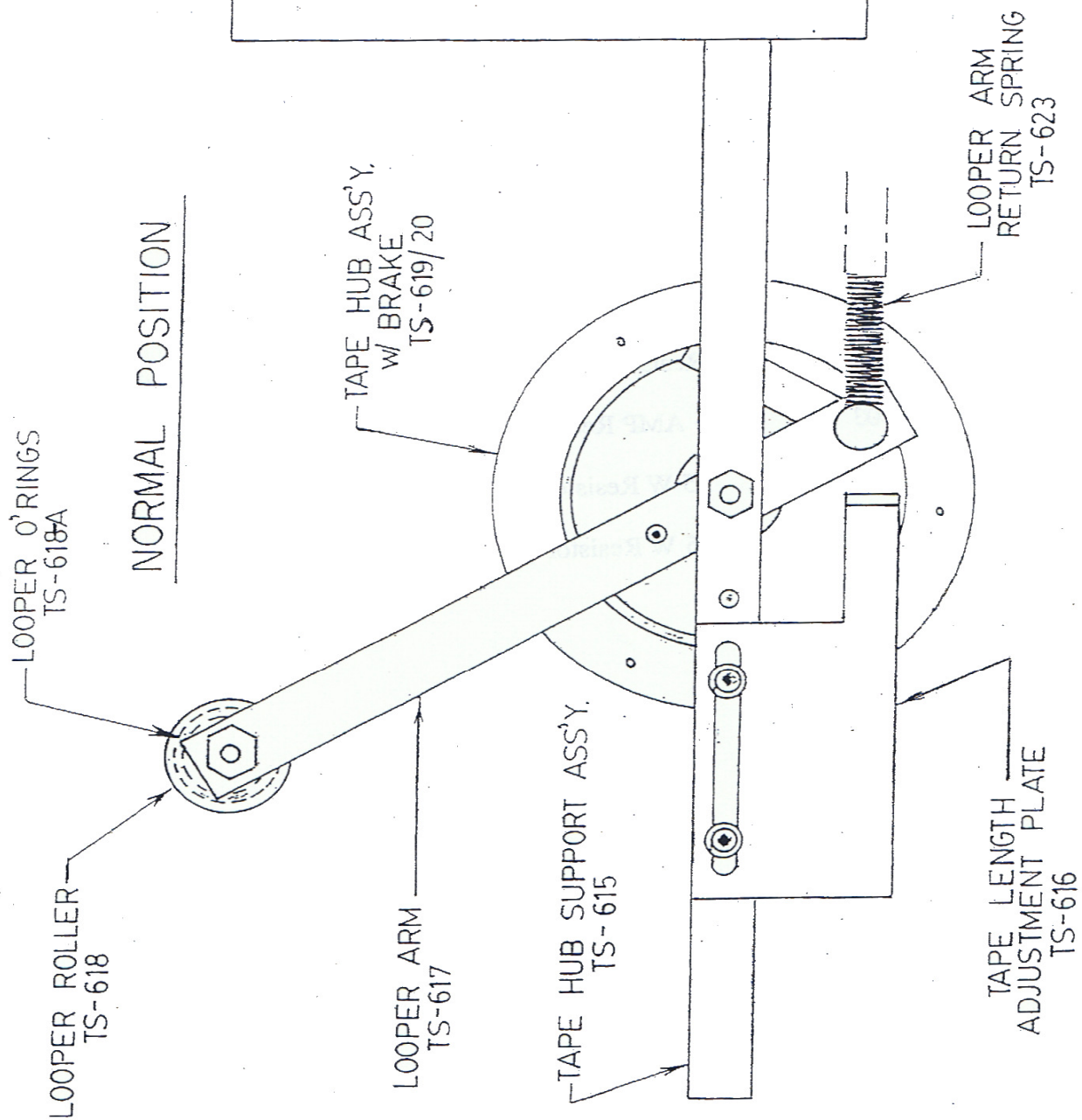
DRAWINGS & PARTS LIST



DRAWING NO. 7

TS-205	HEAD MOUNTING BRACKET
TS-602	REAR COVER
TS-604	LOADER ASSEMBLY
TS-605-C	TAPE CHUTE-16"
TS-606	KNIFE ASSEMBLY
TS-607	KNIFE HOUSING
TS-608-C	PLASTIC CHUTE COVER-16"
TS-611	DRIVEN GEAR
TS-612	DRIVE GEAR
TS-613	DRIVE BELT
TS-626 (revised S-6279)	KNIFE RETURN SPRING
TS-627	KIFE PIVOT BLOCK
TS-628-A	SPRING CLIP
TS-629-C	THREADED ROD-16"
TS-622 *Not shown	TAPE REEL COVER ASSEMBLY

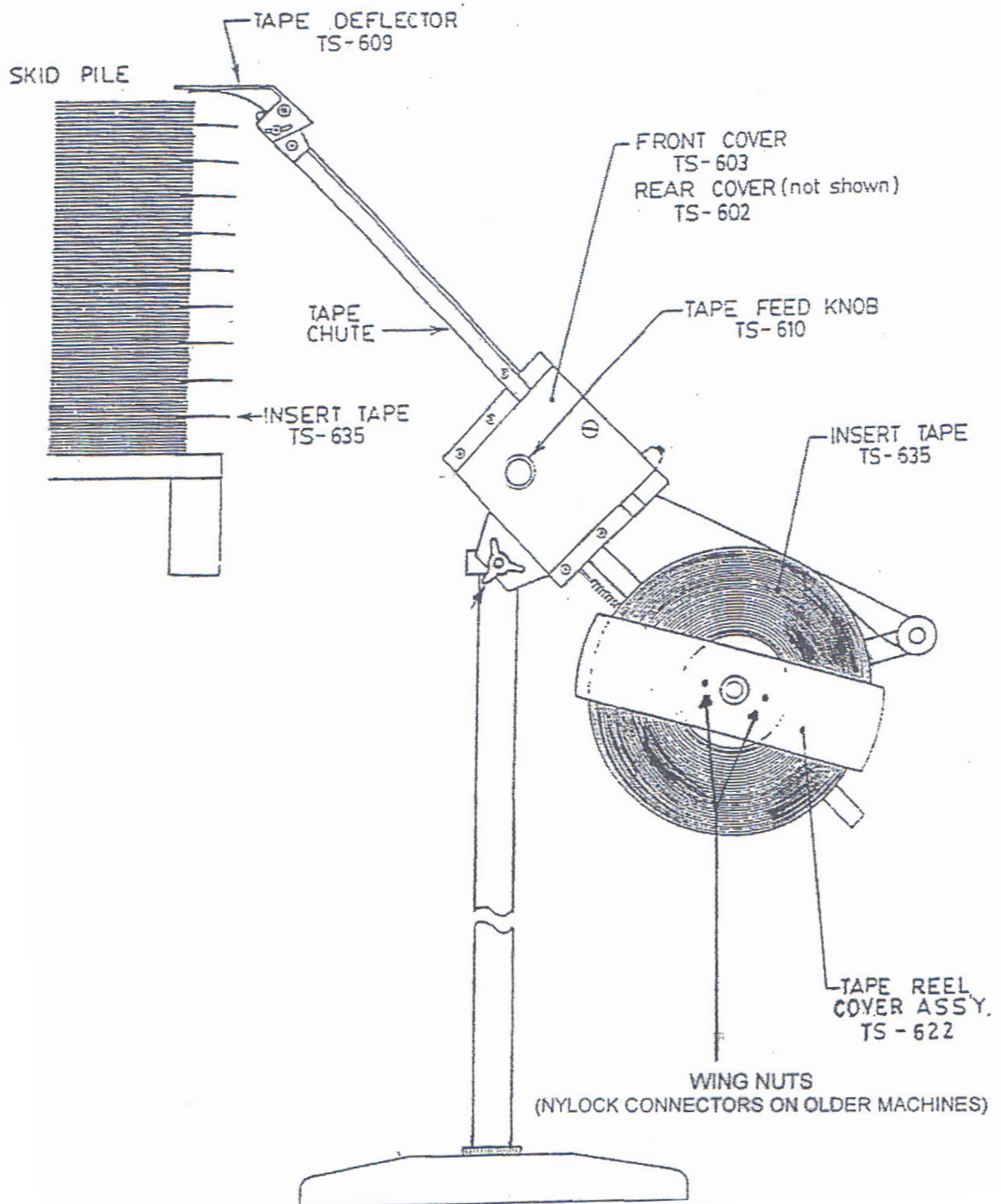
Drawing #8



BRAKE HUB ASSEMBLY – DRAWING NO. 8

TS-615	TAPE HUB SUPPORT
TS-616	TAPE LENGTH ADJUSTMENT PLATE
TS-617	LOOPER ARM
TS-618	LOOPER ROLL
TS-618-A	O-RINGS (3 per unit)
TS-619	TAPE HUB ASSEMBLY
TS-620	BRAKE ASSEMBLY
TS-623	RETURN SPRING

**Tabbing Head w/Deflector, Tape Reel Cover Assy.
Drawing # 9**

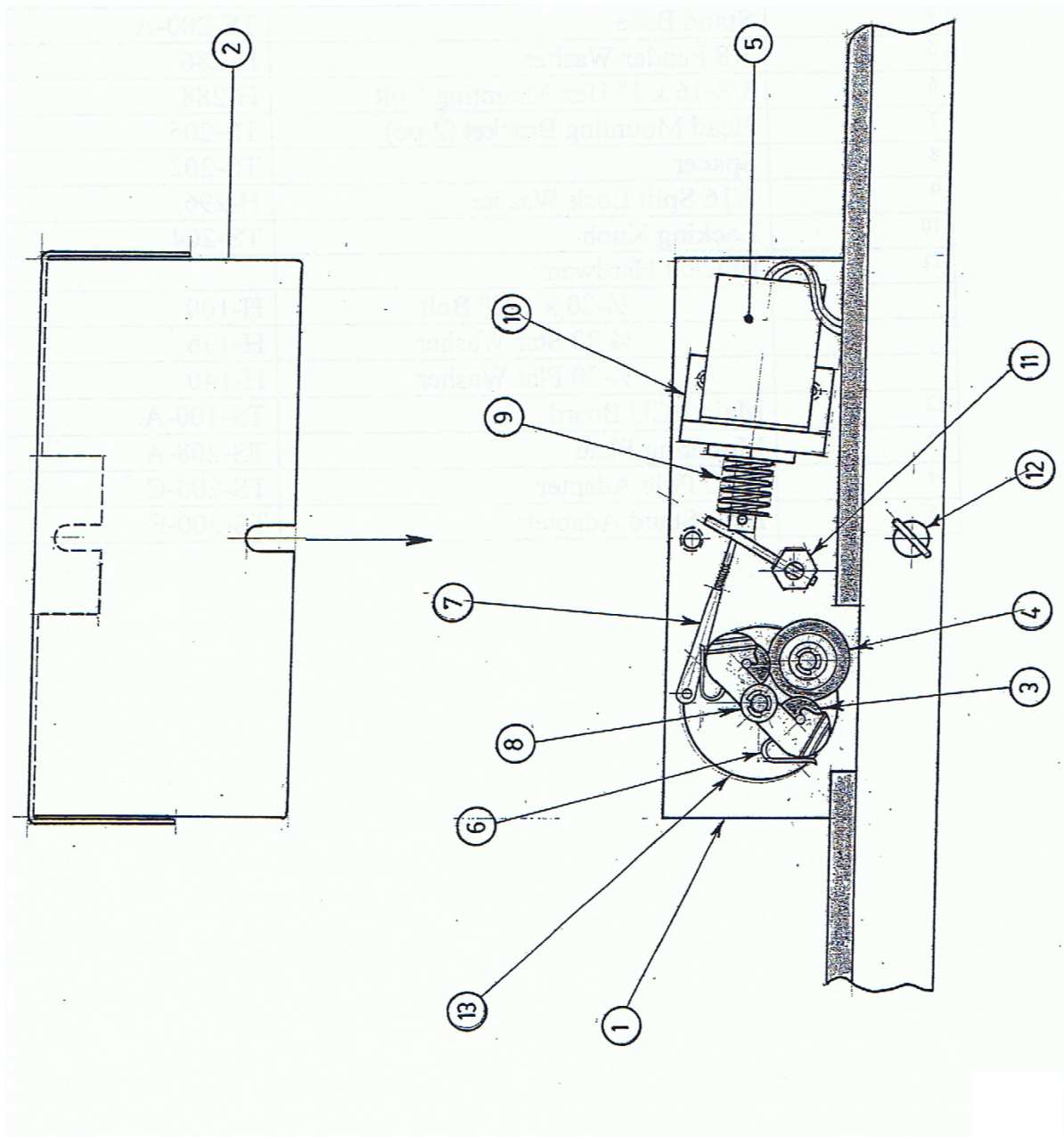


DRAWING NO. 9

TS-602	REAR COVER (Not shown)
TS-603	FRONT COVER
TS-609	TAPE DEFLECTOR (Optional)
TS-610	TAPE FEED KNOB
TS-622	TAPE REEL COVER ASSEMBLY
TS-622-E	¼- 20 WING NUTS (Older models may have NyLock Connectors)
TS-635	INSERT TAPE (20 rolls per case – call for pricing)

RED DYE MARKER

Drawing #10

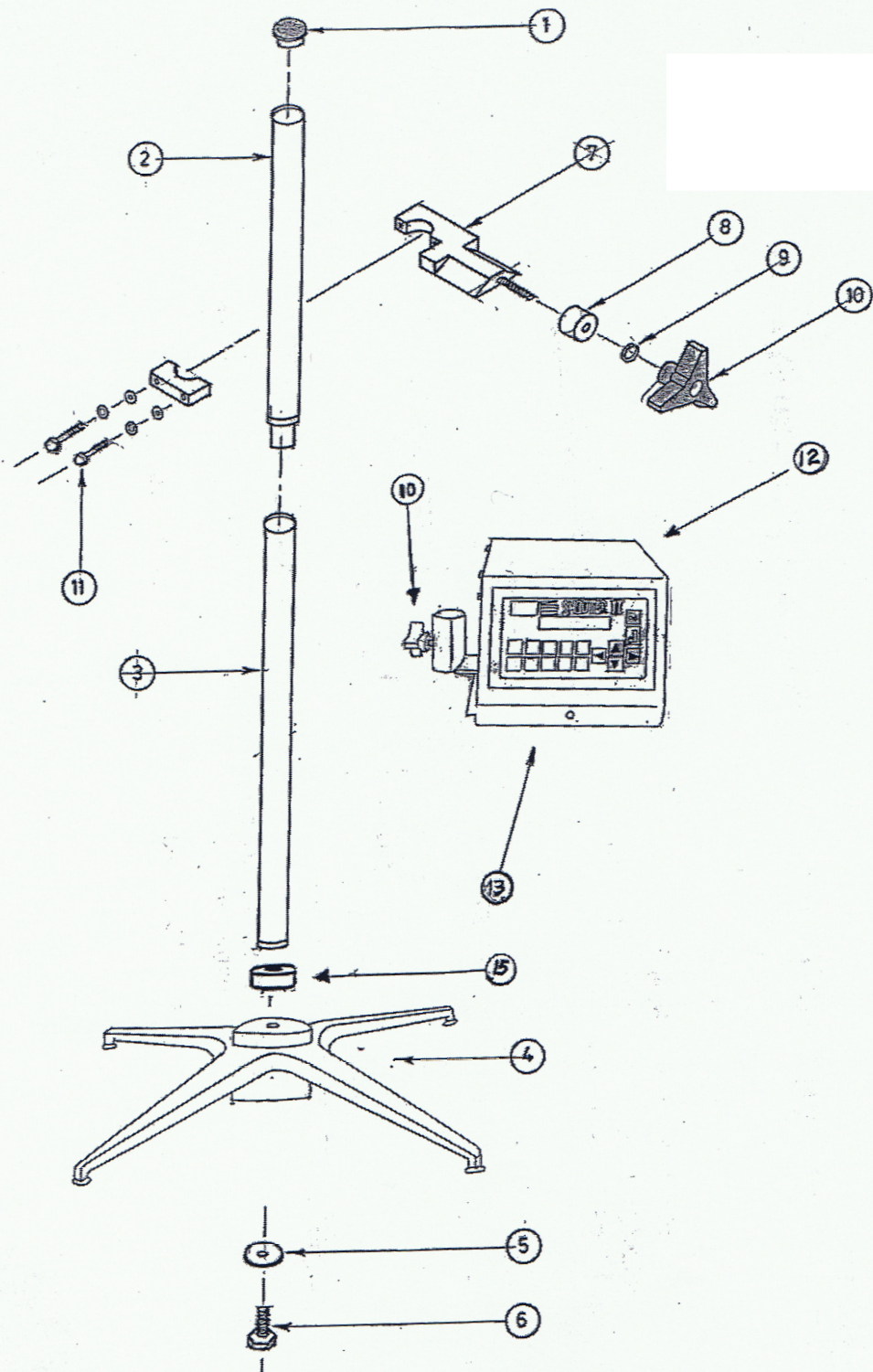


DRAWING NO. 10 Parts List

RED DYE MARKER

KEY	DESCRIPTION	PART NO
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 BRACKER	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

STAND ASSEMBLY - Drawing #11



STAND ASSEMBLY – Drawing #11 (Parts List)

KEY	DESCRIPTION	PART NO.
1	Pole Plug	TS-207
2	Pole Extension (2' Section)	TS-200-C
3	Base Pole (3' Treaded 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	ECU Mounting Adapter	TS-206-B
13	Main ECU Board	TS-100-A
14	ECU Pole Adapter	TS-206-C
15	Base Stand Adapter	TS-200-F

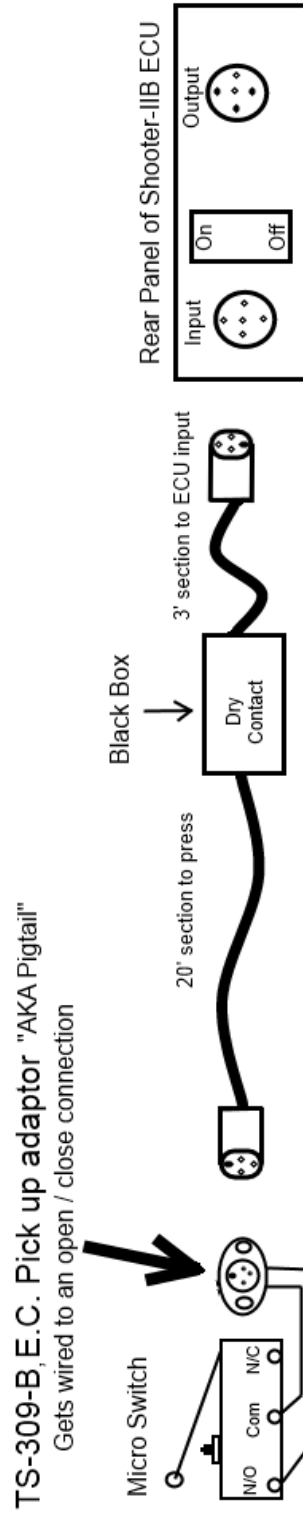
SECTION #8:

PICK-UP CONNECTION (DRY CONTACT & E.C. PICK-UP)

DRAWING #12 -DRY CONTACT EC PICK-UP PRESS CONNECTION

Typical press connection using Dry Contact Pick Up

TS-309-1



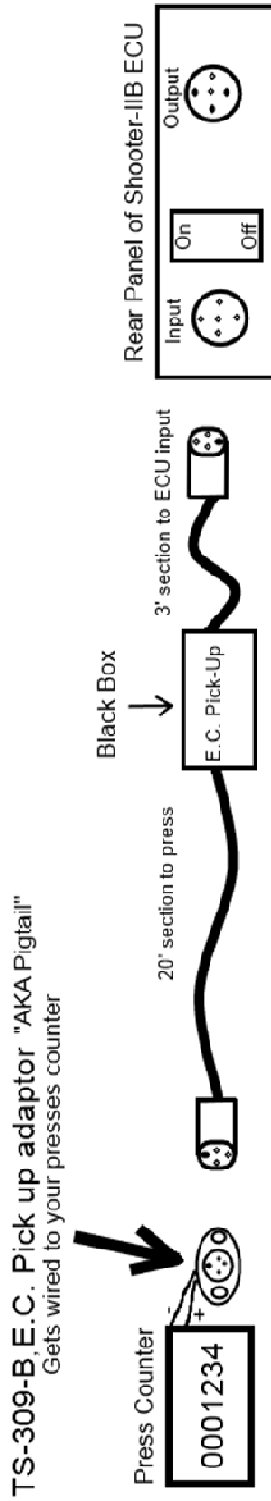
The "Dry Contact" Connection would be wired to a new or existing Micro Switch or any connection such as a relay with a open / close per sheet count no voltage connection.

NOTE: This is a "Dry" no voltage connection. Verify all connection prior to install. Failure to do so may result in damage to the Shooter-IIB and or your presses electronics.

DRAWING #13 -ELECTRONIC PICK-UP CONNECTION

Typical press connection using Electronic Coupling Pick up (E.C. Pick up)

TS-309



The E.C. Pick up adaptor would be wired in to the Presses Counter or Count pulse. This is a 2 wire connection that requires a high / low voltage pulse from 8V - 120V AC or DC per printed sheet.

***** FOR FASTER SERVICE, PLEASE USE PART NUMBERS**

WHEN PLACING ORDER!***

PHONE: (518) 622-2600

FAX: (518) 622-2695

E-MAIL: uspc@wecount.com

WEB SITE: www.wecount.com

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

SHIPPING ADDRESS: 138 ELIZABETH TERRACE, CAIRO, NY 12413

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Tape Hub Assembly	30,31
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