TELETYPE CORPORATION Skokie, Illinois, U.S.A.

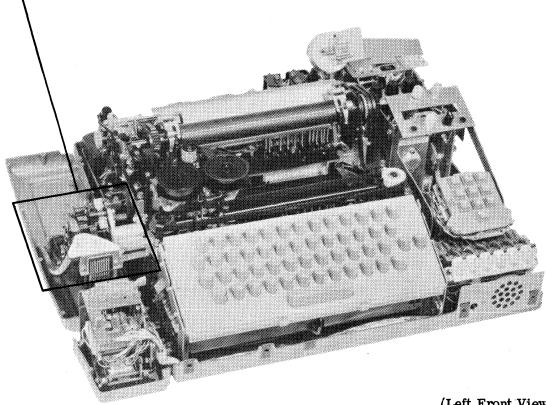
33 TAPE PUNCH

ADJUSTMENTS

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	preliminary	5	1. GENERAL	
	Punch block assembly	19		
	Punch penetration	9	1.01 This section provides adjustment and	nent and
	Sensing lever springs		maintenance information for the 33 tape punch. It is reissued to include engineering	
	Stripper bail spring	15		
	Stripper bail upstop		changes and to add adjustments for an	optional
	Tape bias spring	12	remote control solenoid feature. Margin	al arrows
	Tape guide compression		indicate the changes.	.
	spring		1.02 Figure 1 shows the tape pu	unch area
	Tape guide tension spring		where the punch adjustme	
	Tape nudger	5	spring tension checks are made.	into and
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	Ten characters per inch	13	1.03 In the adjustments covered	
3.	VARIATIONS TO THE BASIC		section, location of clearances	
	UNIT	20	of parts, and point and angle of scale app are illustrated by line drawings. Requiren	
			procedures are set forth in several to	avts that
	Automatic Control Mechanisms		accompany the line drawings. Required	
			included in TP185830 Maintenance Too	l Kit and
	Automatic ON	26	are listed in Section 570-005-800TC.	
	Automatic punch interlock			
	spring	27	1.04 The sequence in which the adj	ustments
	Control bail assembly		appear should be followed	
	Control bail assembly spring	25	complete readjustment of the tape	p unch is
	Feed wheel ratchet and pawl		undertaken. No adjustment should be un	dertaken
	gap	22	without completely understanding the p	rocedure
	Latch bail gap	24	and the requirements. Read a procedur	
	Latch bail spring	22	way through before making an adjus	tment or
	Lever overtravel	21	checking a spring tension.	

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TAPE PUNCH AREA



(Left Front View)

Figure 1 - Tape Punch Area

Note: Remove all electrical power sources from unit before checking or performing any adjustments.

1.05 References to left, right, front, or rear, etc, consider the tape punch to be viewed from a position where the tape guide assembly faces up and the backspace lever is located to the viewer's left.

1.06 When a procedure calls for using pry points or slots to make an adjustment, place a screwdriver between the points or in the slots and pry parts in the proper direction.

1.07 If the tape punch is removed from the typing unit to facilitate making an adjustment and then replaced, recheck any adjustment that may have been affected. Also, if parts are removed from the tape punch to facilitate making an adjustment, be sure that they are replaced. Recheck any adjustment that may have been affected by the removal of the parts.

1.08 The spring tensions specified in this section are indications, not exact values. Therefore, to obtain reliable readings, it is important that spring tensions be measured by spring scales placed in the positions shown on pertinent line drawings. Springs that do not

meet their requirements should be replaced by new ones. Only springs that directly affect the operation of the tape punch are measured, however, others may be measured indirectly in the process. If this is the case and the requirement is not met, replace the springs one at a time, starting with the indicated spring, until the requirement is satisfied.

Note 1: Use spring scales which are listed in the Maintenance Tools Section 570-005-800TC.

Note 2: Spring tensions may be checked in any sequence.

<u>Note 3</u>: The alpha-numeric coding system is not used for spring tensions.

1.09 Certain adjustments require that the tape punch be either "on" or "off." These conditions can be identified as follows:

(a) "Off" condition

- Manual (Punch) Controls: A tape punch is "off" when the control lever is in its clockwise detented position and fully engages the drive post.
- (2) Automatic (Punch) Controls: An "automatic" tape punch is "off" when the associated typing unit is in the <u>stop</u> <u>condition</u> and the on-off bail assembly is latched by the latch bail.

Note 1: If the automatic punch is equipped with the "On Lock" option, the "unlock" button must be depressed to enable the on-off bail assembly to be latched.

Note 2: If the automatic punch is equipped with the interlock mechanism, the nonprint codebar must be in its unoperated position — solenoid not energized.

(b) "On" condition

 Manual (Punch) Controls: A tape punch is 'on'' when the control lever is detented in its counterclockwise position and the drive post is fully engaged by the drive link.

(2) Automatic (Punch) Controls: An automatic tape punch is "on" when the on-off bail assembly is in its unlatched counterclockwise position.

1.10 With the tape punch and typing unit assembled together, all adjusting procedures should be started with the typing unit in the stop condition. It is in the stop condition when the selector armature is in its attracted (frontward) position and all clutches are disengaged.

Note: When the typing unit is in the stop $\overline{\text{condition}}$ and the punch is "on," the tape punch is said to be in the stop position.

1.11 To place the typing unit in the stop condition, hold the selector armature in its attracted (frontward) position. Rotate the main shaft clockwise (as viewed from the left) until all clutches are fully disengaged as instructed in 1.12.

1.12 When disengaged, a clutch is latched so that a shoe lever is held in its stop position by a trip lever while a corresponding latchlever is seated in a notch of the clutch disc. This allows the clutch shoes to release their tension on the clutch drum. With all clutches disengaged, the main shaft will turn freely without any clutch shoes dragging.

<u>Note 1:</u> The clutch <u>stop position</u> is that position where a shoe lever contacts a trip lever.

Note 2: If the shaft is turned by hand, a clutch will not fully disengage upon reaching a stop position. To fully disengage a clutch, rotate the clutch to a stop position, apply a screwdriver to the associated stop-lug, and push the clutch disc in the normal direction of main shaft rotation until the corresponding latchlever seats in its clutch disc notch.

Note 3: The distributor clutch will not disengage unless the answer-back drum is in its home position, which is the position where the control lever is fully detented into the indent on the answer-back drum.

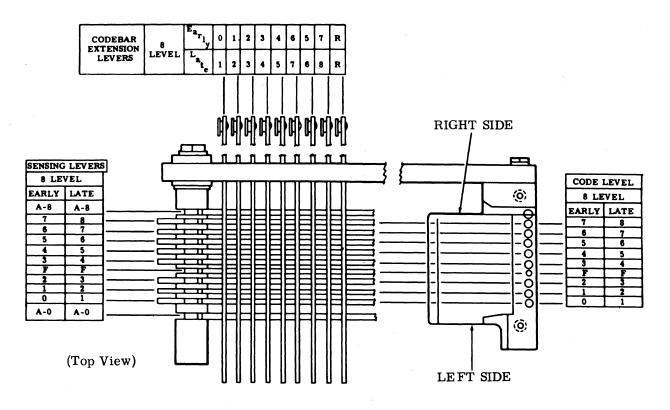


Figure 2 - Tape Punch Code Level Cross Reference Chart

1.13 Manual Operation: To manually operate the typing unit, place it in the stop condition as instructed in 1.11. Momentarily permit the armature to move to its unattracted (rearward) position to trip the selector clutch. Slowly rotate the main shaft clockwise (as viewed from the left) until all pushlevers have moved under their respective selector levers. Using a spring hook, strip the pushlevers from under the selector levers corresponding to the spacing elements of the code combination to be set up. Then continue to rotate the main shaft until the proper condition is set up or the character is cleared through the typing unit.

1.14 The selector levers are numbered 1, 2, 3, 4, 5, 7, 6, and 8 from left to right.
To set up the character Y, for example, whose code combination is 1--45-78, strip the push-levers from the 2, 3, and 6, selector levers.

1.15 The relationship between code levels, sensing levers, and codebar extensions is illustrated in Figure 2. 1.16 In some adjustment routines, the requirements must be checked at specific points in the operating cycle. With the clutch tripped (1.13), the main shaft is rotated to the required position. Two positions are specified in adjustments of this section:

Note: Late design typing units have indicator marks on the function cam and carriage drive link to help locate their positions. For units so equipped, the indicator positions are given in parentheses.

Position 1 — The main shaft is rotated until the function bail is in its uppermost position. (In late design printers, the indicator mark on the carriage drive link is centered within the first notch on the function cam, and the hole on the cam is down.)

Position 3 — The main shaft is rotated until the function bail is in its lowermost position. (The indicator mark on the carriage drive link is centered within the third notch in the function cam, and the hole on the cam is up.)

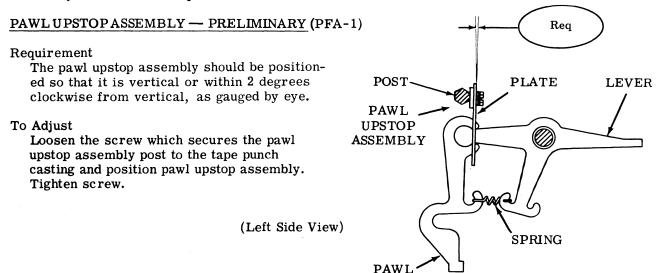
Note: The function cam is notched for a "Position 2", but this position is not required in the adjustment of the punch.

2. BASIC UNIT

2.01 Tape Punch Area

<u>Note 1</u>: These adjustments are to be made only if these areas have been disturbed during disassembly.

<u>Note 2</u>: Prior to making adjustments, remove the chad extension. Reassemble when the adjustments are completed.



TAPE NUDGER (PFA-2)

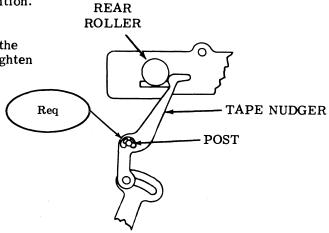
<u>Note 3:</u> This adjustment applies only to tape punch castings which have an elongated tape nudger post mounting hole.

Requirement

The post should be in its most rearward position.

To Adjust

Loosen the screw which secures the post to the tape punch casting and position the post. Tighten screw.



(Left Side View)

2.02 Tape Punch Area (continued)

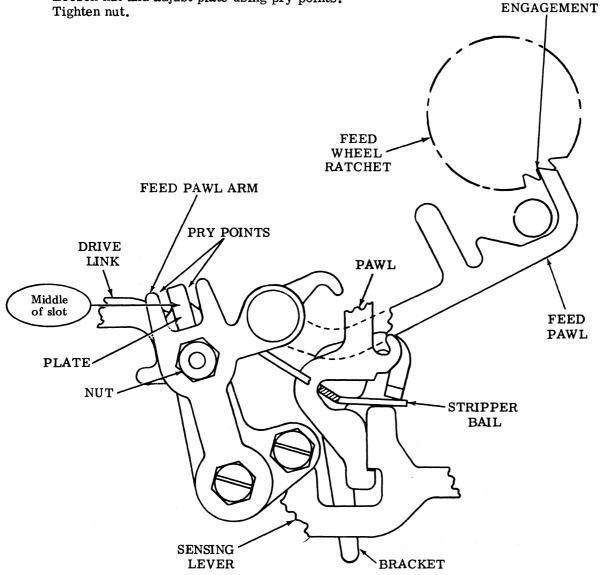
FEED WHEEL RATCHET AND PAWL -- PRELIMINARY (PFA-3)

Requirement

The plate should be in middle of slot located in feed pawl arm, as gauged by eye.

To Adjust

Loosen nut and adjust plate using pry points. Tighten nut.

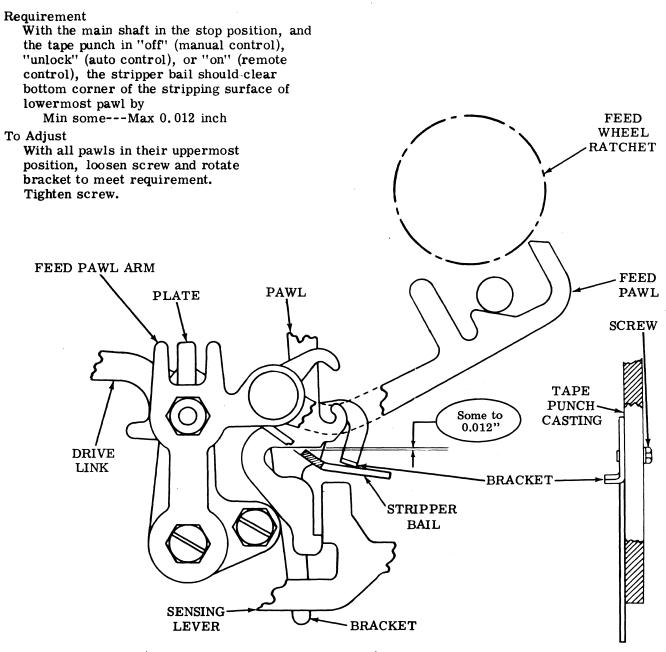


FULL

(Left Side View)

2.03 Tape Punch Area (continued)

STRIPPER BAIL UPSTOP (PFA-4)



(Left Side View)

(Front View)

2.04 Tape Punch Area (continued)

Note 1: For the adjustments which follow, the tape punch should be mounted to the typing unit. For instructions, see section titled "33 Tape Punch, Disassembly and Reassembly."

Note 2: The following Tape Punch Area adjustments must be made in sequence: TAPE PUNCH DRIVE, PUNCH PENETRATION, PAWL UPSTOP ASSEMBLY — FINAL, and FEED WHEEL RATCHET AND PAWL — FINAL. Prior to making the above adjustments, check or make the following Tape Punch Area adjustments: PAWL UPSTOP ASSEMBLY — PRELIMINARY, TAPE NUDGER, FEED WHEEL RATCHET AND PAWL — PRELIMINARY, and STRIPPER BAIL UPSTOP.

TAPE PUNCH DRIVE (PFA-5)

To Check

With no tape in the tape punch and with the tape punch "on," manually rotate the main shaft until the stripper bail is in its most forward position (position no. 3). Take up rear roller play toward rear and tape nudger play in a clockwise direction.

Requirement

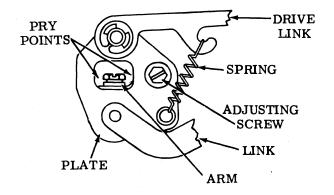
Min 0.030 inch---Max 0.080 inch at point of least clearance between rear roller and tape nudger.

To Adjust

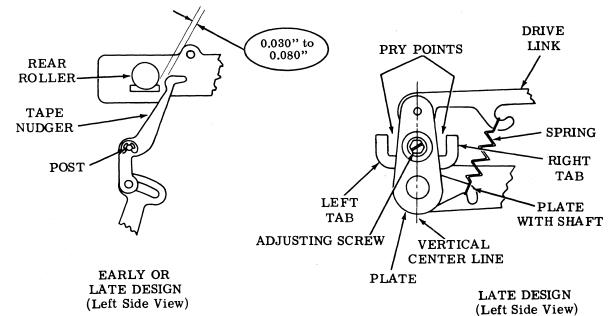
Loosen adjusting screw and use pry points to position plate. Tighten screw.

Related Adjustments

Affected By LEFT ROCKER DRIVE (See Section 574-122-700TC.)



EARLY DESIGN (Left Side View)



2.05 Tape Punch Area (continued)

PUNCH PENETRATION (PFA-6)

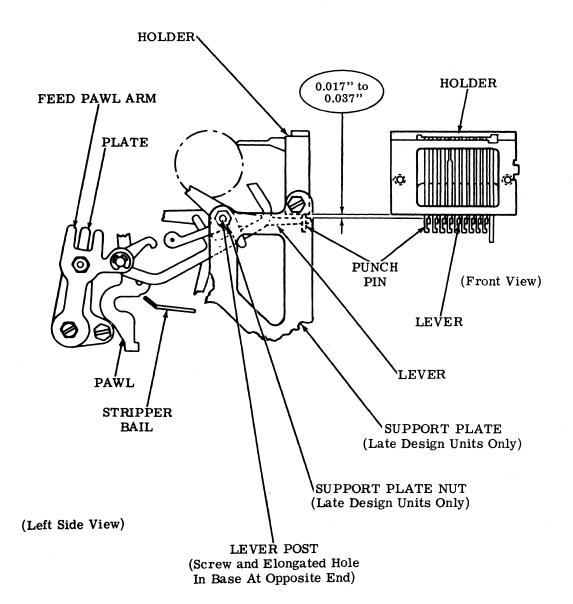
To Check

With the tape punch "on," set up an all-marking code combination in the selector. Manually rotate the main shaft until the stripper bail is in its most forward position (position no. 3). Requirement

Min 0.017 inch---Max 0.037 inch between bottom surface of holder and top surface of any lever.

To Adjust

With codelever post mounting screw (and support plate nut on late design units) friction tight, position post within the elongated base hole (and support plate hole — late design units). Tighten screw and nut.



2.06 Tape Punch Area (continued)

PAWL UPSTOP ASSEMBLY — FINAL (PFA-7)

To Check

With the tape punch "on," set up an all-marking code combination in the selector. Manually rotate the main shaft until the stripper bail is in its rearmost position (position no. 1).

Note 1: For tape punches equipped with the answer-back blocking option or automatic controls, use the following "To Check" procedure:

To Check

With the tape punch "on," set up the code combination in the selector that will cause the special feature to operate. Manually rotate the main shaft until the stripper bail is in its rearmost position (position no. 1). Check requirement (1). Then, set up an all-marking code combination in selector. Manually rotate the main shaft until the stripper bail is in its rearmost position (position no. 1). Check requirement (2).

(1) Requirement

Min 0.005 inch---Max 0.020 inch between the leftmost sensing lever (Figure 2) and its associated pawl.

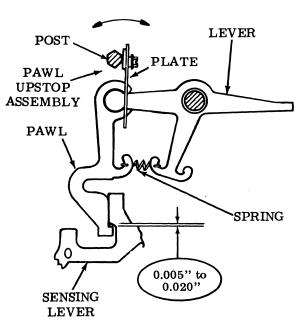
Note 2: For tape punches equipped with automatic controls, the requirement will be checked between the second from the left sensing lever (Figure 2) and its associated pawl.

Note 3: There should also be some $\overline{\text{clearance between the rightmost sensing}}$ lever (Figure 2) and its associated pawl.

<u>Note 4</u>: "Some clearance" can be determined if a sensing lever can be pressed down slightly and its associated pawl does not move.

(2) Requirement

Some clearance between the feed lever and its associated pawl and each sensing lever and its associated pawl.



(Left Side View)

To Adjust

Loosen the screw which secures the pawl upstop assembly post to the tape punch casting. Provide proper clearance by rotating the pawl upstop assembly. Tighten screw. Recheck requirement (1) above and refine if necessary. Remake <u>STRIPPER BAIL UPSTOP</u> (Tape Punch Area) (2.03) adjustment.

CAUTION: EXERCISE CARE AND SEE THAT THE PLATE OF THE PAWL UPSTOP ASSEMBLY ALWAYS GUIDES THE PAWL AND LEVER SIMULTANEOUSLY. AVOID ROTATING PLATE IN A COUNTERCLOCKWISE DIRECTION FROM ITS VERTICAL POSITION IF POSSIBLE. 2.07 Tape Punch Area (continued)

FEED WHEEL RATCHET AND PAWL - FINAL (PFA-8)

Note 1: Prior to checking the adjustment, the PLATE in the illustration should be located in the center of the slot, as gauged by eye.

To Check

With no tape in the tape punch and with the tape punch "on," set up an all-marking code combination in the selector. Manually rotate the main shaft until the stripper bail is in its rearmost position (position no. 1). Take up all play in stripper bail toward the front.

Requirement

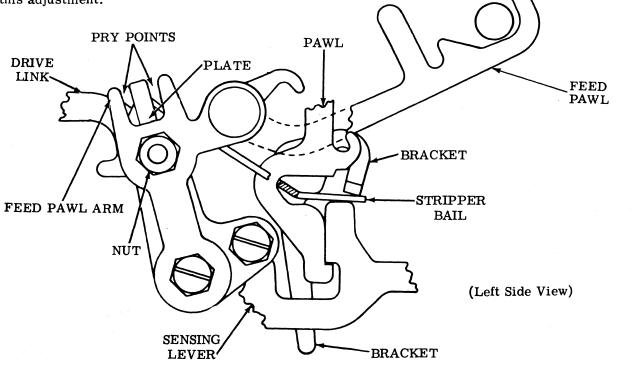
With feed wheel ratchet in its fully detented position Min some---Max 0.010 inch between the feed pawl and feed wheel ratchet tooth.

Note 2: The "some" clearance will be considered met if, when the feed pawl is pulled out until the tip of the pawl is just beyond the outer diameter of the feed wheel ratchet and slowly allowed to return to full engagement, it does not rub.

To Adjust

Loosen nut and position plate w/bushing using pry points. Tighten nut. Backspace feed wheel ratchet one full revolution, one tooth at a time, using backspace lever. Check each tooth to see if the requirement is met. Gauge by eye. Readjust where necessary.

Note 3: On late design units equipped with a support plate, remove the two mounting screws and nut. Then move the support plate out of the way to facilitate checking this adjustment.



Some to 0.010"

FEED

WHEEL

RATCHET

SECTION 574-125-700TC

2.08 Tape Punch Area (continued)

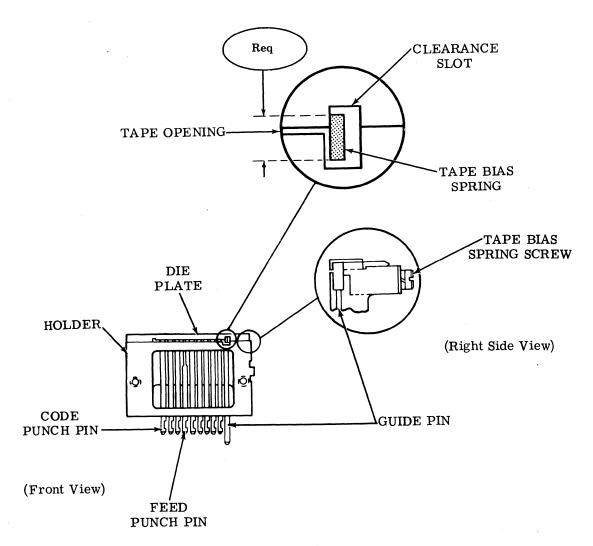
TAPE BIAS SPRING (PFA-10)

Requirement

With tape removed from the tape punch, tape bias spring should rest against side of die plate and should be symmetrical about the tape opening, as gauged by eye.

To Adjust

Loosen tape bias spring screw and position tape bias spring so that it just rests against the left side of clearance slot and is symmetrical about the tape opening. Tighten screw.



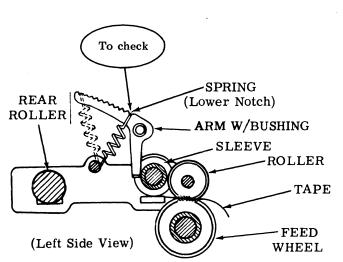
2.09 Tape Punch Area (continued)

TEN CHARACTERS PER INCH (PFA-9)

Note: From left to right, with the smooth side of TP156011 gauge up, there are six holes in line — five holes with 0.072-inch diameters and one hole with a 0.086-inch diameter.

To Check

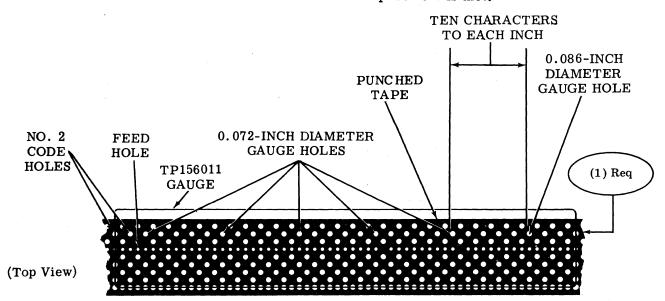
Operate the typing unit under power and perforate an alternate R and "hyphen" code combination in approximately 8 inches of tape. Tear the 8-inch length of punched tape from the tape punch and place it to the smooth side of TP156011 gauge. Concentrically align a no. 2 code hole of the punched tape with the first 0.072-inch diameter hole of TP156011 gauge.



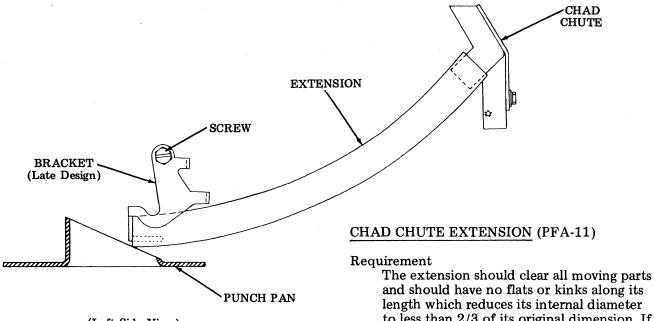
- Requirement The four remaining 0.072-inch diameter gauge holes should be visible through corresponding no. 2 code holes in the punched tape.
- Requirement
 The no. 2 code hole which corresponds with the 0.086-inch diameter gauge hole should lie entirely within the perimeter of that gauge hole.

To Adjust

If the no. 2 code hole is beyond the edge of the hole in the gauge, indicating that the spacing is too long, move spring up arm w/bushing notch by notch until requirement is met. If the no. 2 code hole is short of the edge of the hole in the gauge, indicating that the spacing is too short, move spring toward lower notch of arm w/bushing until requirement is met.



2.10 Tape Punch Area (continued)



(Left Side View)

and should have no flats or kinks along its length which reduces its internal diameter to less than 2/3 of its original dimension. If the requirement cannot be met, the chad chute extension should be replaced.

Note: On units with early design brackets, make sure bracket is vertical as gauged by eye.

CODEBAR EXTENSION SPRINGS

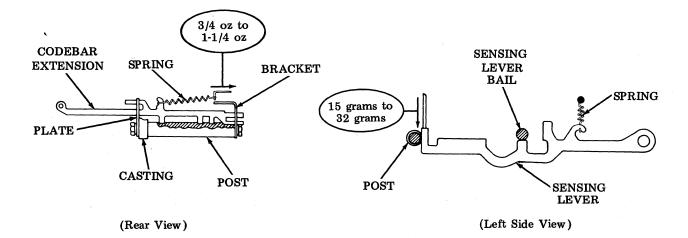
Requirement

With the typing unit in stop condition Min 3/4 oz --- Max 1-1/4 oz to pull spring to its installed length.

SENSING LEVER SPRINGS

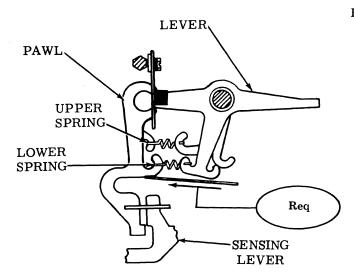
Requirement

With the tape punch in off position Min 15 grams --- Max 32 grams to start sensing lever moving.



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2.11 Tape Punch Area (continued)



PAWL AND LEVER SPRINGS

Requirement With the tape punch ''off''

> Upper spring Min 1 oz---Max 2 oz

 $\frac{\text{Lower spring}}{\text{Min } 1-1/2 \text{ oz}--\text{Max } 2-1/2 \text{ oz}}$ to start pawl moving.

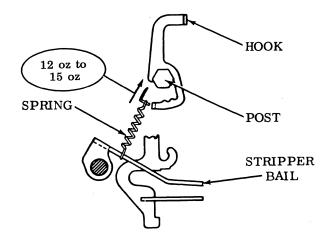
STRIPPER BAIL SPRING (Early Design)

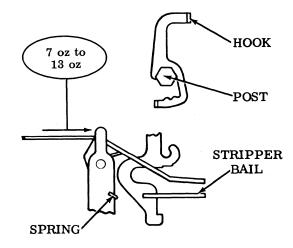
Requirement

With the tape punch in <u>off position</u> Min 12 oz---Max 15 oz to pull spring to its installed length.

STRIPPER BAIL SPRING (Late Design)

Requirement With tape punch in <u>off position</u> Min 7 oz---Max 13 oz to start the stripper bail moving.



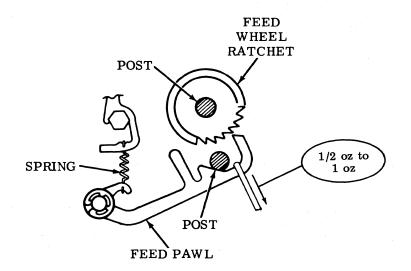


(Left Side Views)

2.12 Tape Punch Area (continued)

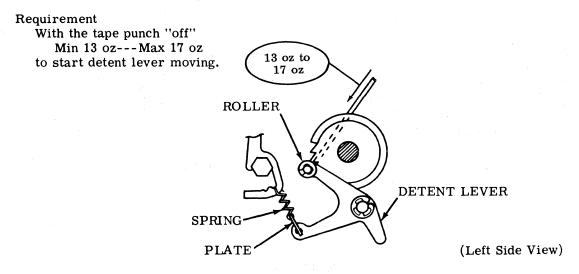
FEED PAWL SPRING

Requirement With tape punch in <u>off position</u> Min 1/2 oz---Max 1 oz to start feed pawl moving.



(Left Side View)

DETENT LEVER SPRING

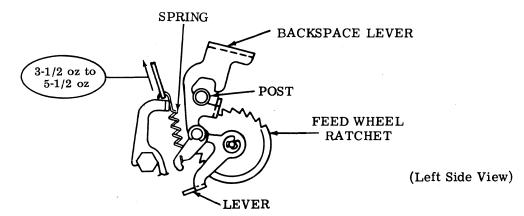


2.13 Tape Punch Area (continued)

BACKSPACE LEVER SPRING

Requirement

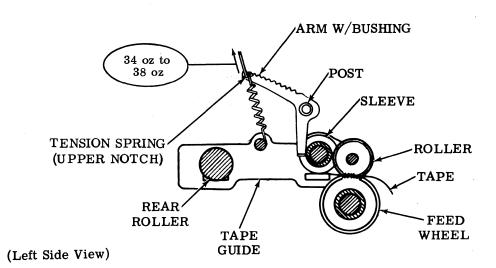
With the tape punch in off position Min 3-1/2 oz---Max 5-1/2 oz to pull spring to its installed length.



TAPE GUIDE TENSION SPRING

Requirement

Min 34 oz---Max 38 oz to pull spring to its installed (upper notch) length.



2.14 Tape Punch Area (continued)

TAPE GUIDE COMPRESSION SPRING

Requirement Remove the tape guide tension spring. Place roller slightly above the feed wheel Min 24 oz---Max 48 oz to start tape guide moving.

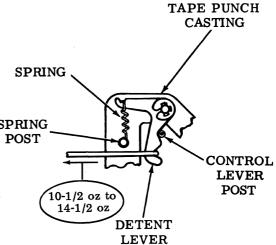
24 oz to 48 oz SLEEVE SPRING SPRING POST TAPE GUIDE BRACKETS COMPRESSION SPRING POST TAPE PUNCH CASTING

(Front View)

CONTROL DETENT LEVER SPRING

<u>Note</u>: This adjustment applies only to tape punches equipped with TP182843 detent lever.

Requirement With the tape punch "off" Min 10-1/2 oz---Max 14-1/2 oz to start detent lever moving.

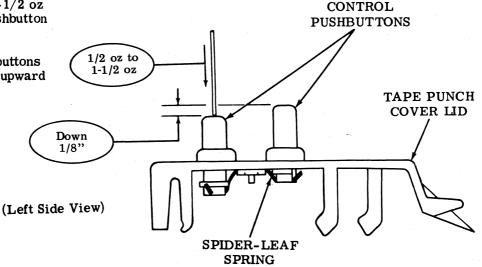


(Left Side View)

CONTROL PUSHBUTTONS

Requirement Min 1/2 oz---Max 1-1/2 oz to push each control pushbutton down 1/8 inch as gauged by eye, while remaining control pushbuttons

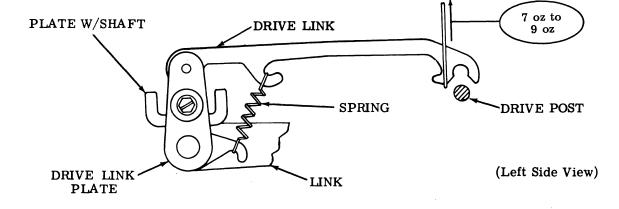
remain in their normal upward positions.



2.15 Tape Punch Area (continued)

DRIVE LINK SPRING

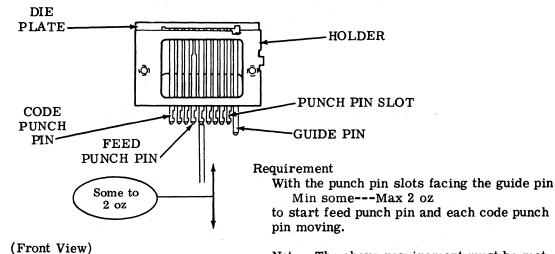
Requirement With tape punch "off" Min 7 oz---Max 9 oz to start drive link moving.



PUNCH BLOCK ASSEMBLY

To Check

Remove the punch block assembly from the tape punch. Replace after performing this adjustment. (For instructions, see the appropriate tape punch section.)

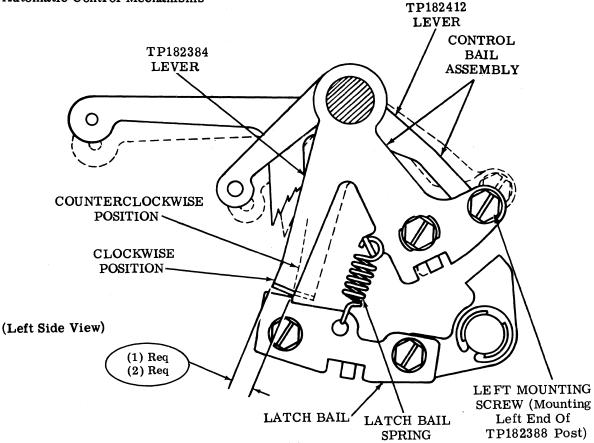


Note: The above requirement must be met $\overline{\text{anywhere along each punch pin's upward}}$ and downward travel in holder.

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3. VARIATIONS TO THE BASIC UNIT

3.01 Automatic Control Mechanisms



CONTROL BAIL ASSEMBLY (PFA-12)

To Check

With the typing unit in the <u>stop condition</u> and the tape punch "on," gently oscillate the control bail assembly from its clockwise position to its counterclockwise position and back again. Repeat this oscillating motion several times while noting requirements.

(1) Requirement

The control bail assembly should be free from binds along its normal travel.

(2) Requirement

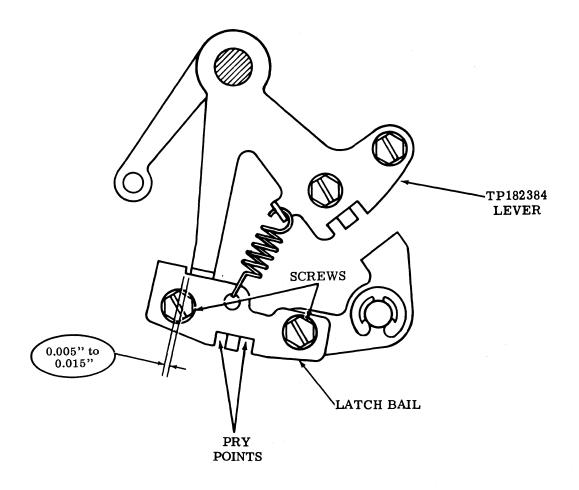
When released from its counterclockwise position, the control bail assembly should return to its clockwise position under spring tension.

To Adjust

Note: Parts should not be bent, other than specifically directed.

Remove the latch bail spring, control bail spring (not illustrated), and left mounting screw which secures the left side of TP182388 post. The TP182388 post threaded hole should be concentric to the left mounting screw hole. If necessary, bend TP182388 post about its right mounting screw (not illustrated). Reassemble left mounting screw and tighten. Replace springs. Recheck requirements and refine adjustment if necessary.

3.02 Automatic Control Mechanisms (continued)



(Left Side View)

LEVER OVERTRAVEL (PFA-13)

To Check

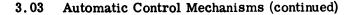
With the tape punch "on," set up the $\overline{\text{TAPE}}(-3-5---)$ code combination in the selector. Manually rotate the main shaft until the function rocker shaft is in its most forward position.

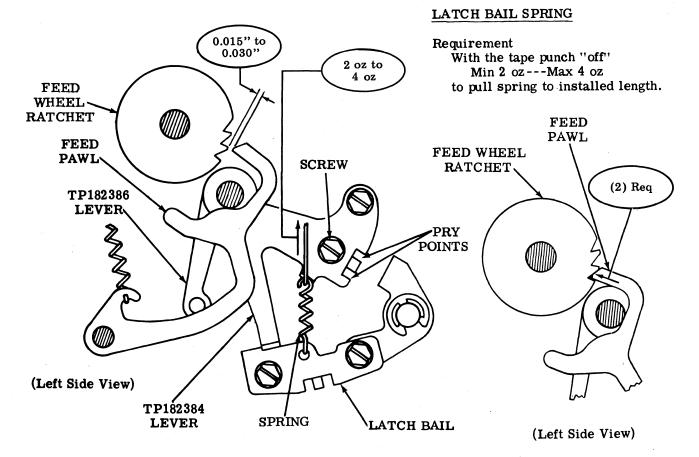
Requirement

Min 0.005 inch---Max 0.015 inch between the TP182384 lever and latch bail.

To Adjust

Loosen screws and position latch bail using pry points. Tighten screws.





FEED WHEEL RATCHET AND PAWL GAP (PFA-14)

(1) To Check

With the tape punch "off," manually rotate the main shaft until the function rocker shaft positions the feed pawl so that there is a minimum clearance between it and a tooth of the feed wheel ratchet.

Requirement

Min 0.015 inch---Max 0.030 inch between the feed pawl and a tooth of the feed wheel ratchet.

To Adjust

Loosen the screw and position the TP182386 lever using the pry points. Tighten screw.

(2) To Check

With the tape punch "on," manually rotate the main shaft until the function rocker shaft positions the feed pawl so that it engages a tooth of the feed wheel ratchet.

Requirement

The feed pawl should fully engage a tooth of the feed wheel ratchet.

To Adjust

Refine requirement under (1) To Check.

3.04 Automatic Control Mechanisms (continued)

SENSING LEVER AND BAIL GAP (PFA-15)

<u>Note</u>: This adjustment applies only to tape punches equipped with the sense suppression option — TP182430 bail, etc.

To Check

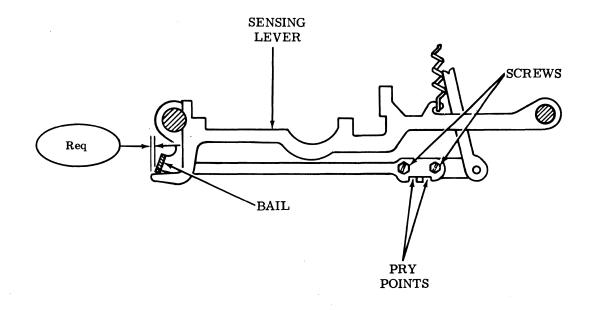
Place the tape punch "off."

Requirement

The sensing lever associated with the leftmost code level (Figure 2) should be Min 0.010 inch underflush---Max 0.010 inch overflush with the bail.

To Adjust

Loosen screws and position bail using pry points. Tighten screws.



(Left Side View)

3.05 Automatic Control Mechanisms (continued)

LATCH BAIL GAP (PFA-16)

<u>Note</u>: This adjustment applies only to tape punches equipped with tape punch interlock mechanism.

To Check

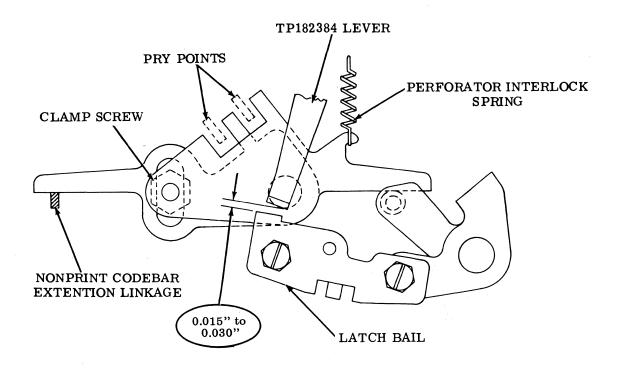
Place the typing unit in the stop condition and the tape punch "off." Place the nonprint codebar in its operated position (solenoid energized).

Requirement

Min 0.015 inch---Max 0.030 inch between the latch bail and TP182384 lever.

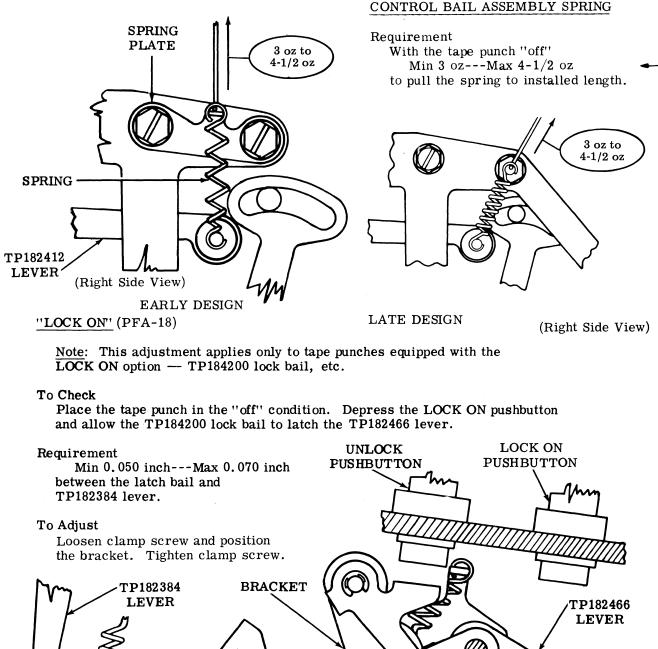
To Adjust

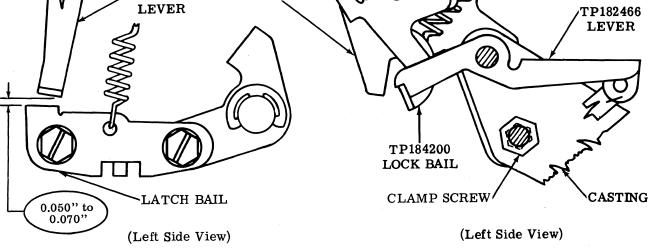
Remove punch interlock spring. Loosen clamp screw and position lever using pry points. Tighten screw and replace spring.



(Left Side View)

3.06 Automatic Control Mechanisms (continued)





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3.07 Automatic Control Mechanisms (continued)

AUTOMATIC ''ON'' (PFA-17)

<u>Note:</u> This adjustment applies only to tape punches equipped with the LOCK ON option.

To Check

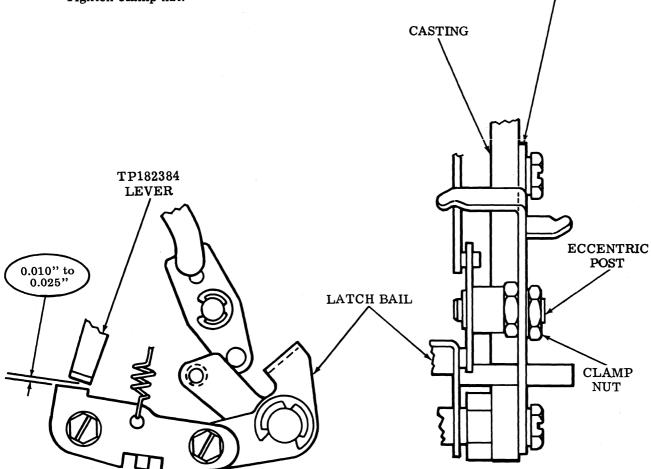
With the tape punch "on," depress the UNLOCK pushbutton. Set up the TAPE (-2--5--) code combination in the selector. Manually rotate the main shaft until the drive link is in its most forward position.

Requirement

Min 0.010 inch---Max 0.025 inch between the latch bail and TP182384 lever.

To Adjust

Loosen clamp nut and rotate eccentric post. Tighten clamp nut.

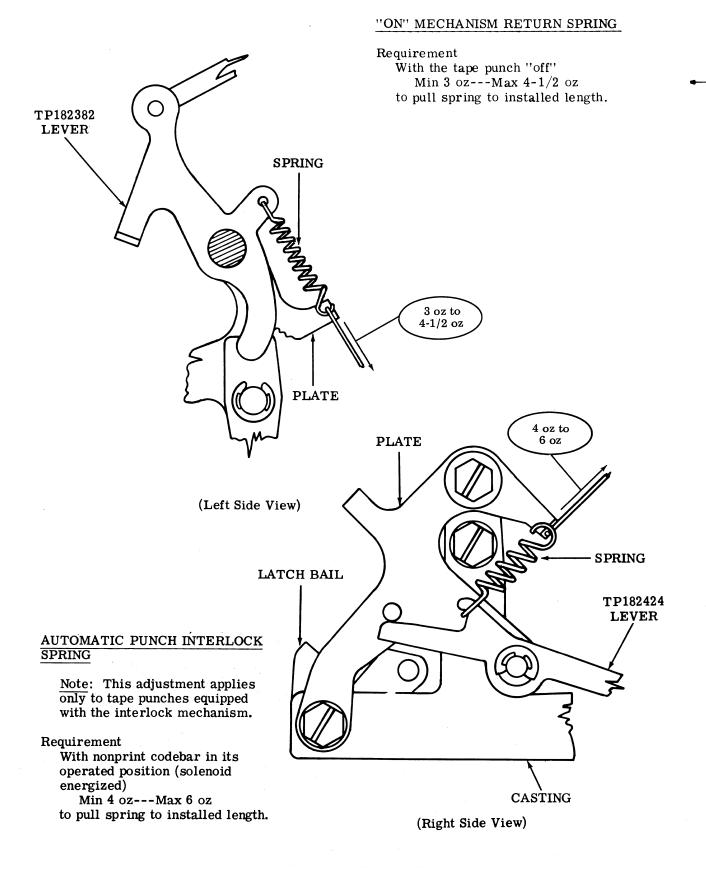


(Left Side View)

(Front View)

PLATE

3.08 Automatic Control Mechanisms (continued)



3.09 Remote Control Solenoid (continued)

STRIPPER BAIL BIAS (PFA-19)

Note: This adjustment applies only to tape punches equipped with the remote control solenoid.

To Check

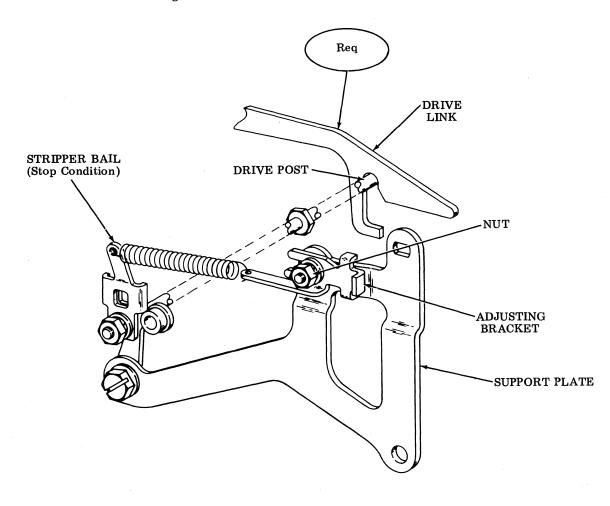
No tape in punch. Typing unit and punch in stop condition.

Requirement

There should be a reduction in spring tension on the drive link from the stripper bail until the drive link can be freely lifted.

To Adjust

Loosen nut and increase spring tension to a maximum. Manually oscillate stripper bail back and forth a few times. While holding drive link up, gradually decrease spring tension until drive post touches the drive link. Tighten nut.



(Left Front View)

3.10 Remote Control Solenoid (continued)

SOLENOID POSITION (PFA-20)

<u>Note</u>: This adjustment applies only to tape punches equipped with remote control solenoid.

To Check

No tape in punch. Typing unit function rocker shaft in rearmost position (Position No. 1). Punch "off"; solenoid in energized position. Move drive post forward.

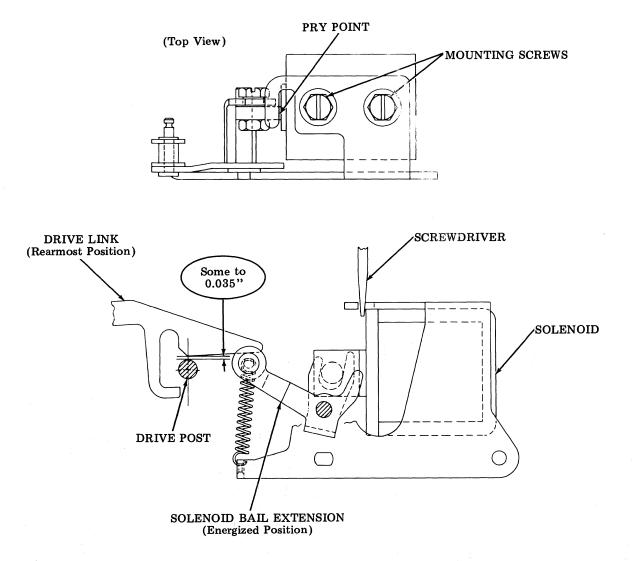
Requirement

Min some --- Max 0.035 inch between the drive link and drive post.

To Adjust

Loosen solenoid mounting screws. Move solenoid to rearmost position. Position solenoid to meet requirement using a screwdriver at pry point.

Note: Solenoid must be in alignment with plunger.



(Left Side View)

SECTION 574-125-700TC

3.11 Remote Control Solenoid (continued)

SOLENOID BAIL UPSTOP POST (PFA-21)

Note: This adjustment applies only to tape punches equipped with remote control solenoid.

To Check

No tape in punch. Typing unit function shaft and power bail in the foremost position (Position No. 3). Drive link in full contact with top surface of drive post (it may be necessary to push down on the drive link to make contact). Solenoid in de-energized position.

Requirement

Min some --- Max 0.035 inch

between the drive link and the roller on the solenoids bail extension arm.

To Adjust

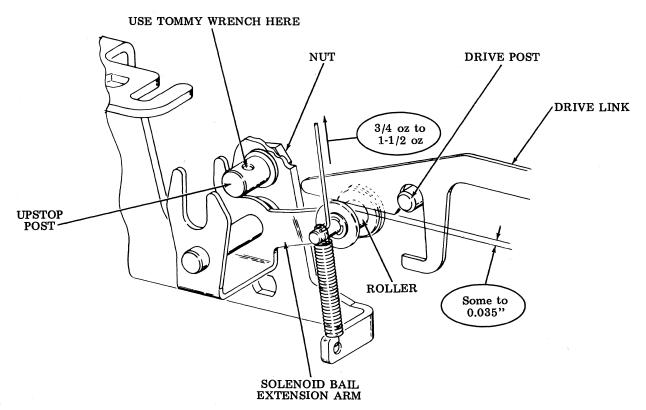
Loosen nut and use tommy wrench to position upstop post to meet requirement. Tighten nut.

SOLENOID BAIL SPRING

Note: This adjustment applies only to tape punches equipped with remote control solenoid.

Requirement

Typing unit in stop condition. Tape punch "on" (solenoid de-energized). Min 3/4 oz --- Max 1-1/2 oz to pull spring to installed length.



(Right Side View)

3.12 Remote Control Solenoid (continued)

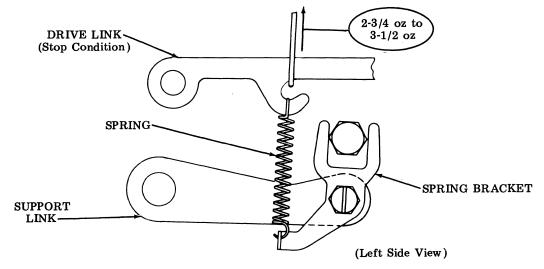
DRIVE LINK SPRING

Note: This adjustment applies only to tape punches equipped with remote control solenoid.

Requirement

Typing unit in stop condition. Tape punch "on" (solenoid de-energized).

- Min 2-3/4 oz --- Max 3-1/2 oz
- to pull spring to installed length.



STRIPPER BAIL BIAS SPRING

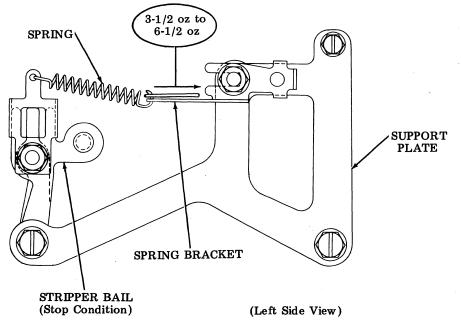
Note: This adjustment applies only to tape punches equipped with remote control solenoid.

Requirement

Typing unit in stop condition. Tape punch "on" (solenoid de-energized).

Min 3-1/2 oz --- Max 6-1/2 oz

to pull spring to installed length.



3.13 Miscellaneous

FOLDED TAPE GUIDE

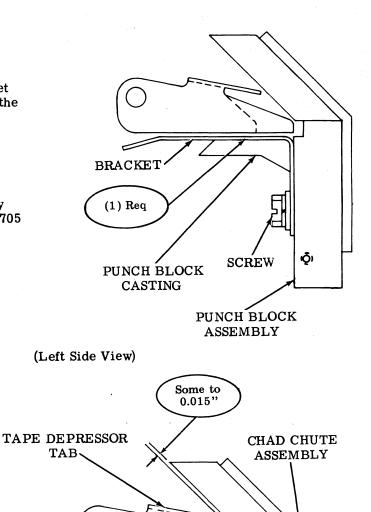
(1) Requirement

With no tape in the punch, the bracket should be flush to the top surface of the punch block casting.

To Adjust

Loosen screw and position bracket. Tighten screw.

<u>Note 1</u>: This adjustment applies only to tape punches equipped with TP185705 folded tape guide modification kit.



(2) Requirement

With tape in punch Min some---Max 0.015 inch between the tape depressor tab and underside of the chad chute.

To Adjust Bend tape depressor tab to meet requirement. <u>Note 2: Check TEN CHARACTERS</u>

PER INCH (2.09) requirement and refine if necessary.

TAPE