

Bulletin No. 167  
Issue 1  
March, 1941

# TELETYPE

PRINTING TELEGRAPH SYSTEMS

Bulletin No. 167

DESCRIPTION AND ADJUSTMENTS  
TAPE PERFORATOR  
(FIVE UNIT)

**TELETYPE**  
CORPORATION  
SUBSIDIARY OF  
*Western Electric Company*  
CHICAGO, U.S.A.



**“ The Iron Horse”**  
**GPE - 5-Unit Perforator (Bell 14A)**  
**Above example of Western Union**  
**configuration for weather symbols.**  
**Unit is housed in a sound-absorbing**  
**apparatus cabinet. Circa 1941**

CHANGES IN LUBRICATION SPECIFICATIONS  
WHICH APPLY TO ALL TELETYPE APPARATUS

The following lubricants have been standardized for use on all types of Teletype apparatus. These lubricants supersede those referred to in preceding Teletype specifications. The lubricants can be ordered from Teletype as follows:

88970	1 Qt. of KS-7470 Oil
88971	1 Gal. of KS-7470 Oil
88973	1 Lb. of KS-7471 Grease
*88975	KS-8319 Grease Gun
97116	4-oz. Tube of KS-7471 Grease

The above grease is recommended instead of oil for lubricating motors equipped with ball bearing. The 88975 grease gun should be used for injecting grease into the bearings of Teletype ball bearing motors. The gun may be used also for applying grease to other parts of the apparatus and no other grease container need be carried. If this grease gun is not available, the oil listed in the foregoing should be substituted for lubricating ball bearing motors.

\* Instructions for Filling the Grease Gun

1. Unscrew the lubricant tube from the cap casting of the grease gun.
2. Insert fresh lubricant through the open end of the tube with the fingers. Apply gradually to eliminate air pockets.
3. Tamp the lubricant down solidly in the tube by pounding the closed end solidly against the palm of the hand. Continue to add lubricant until the tube is completely filled and the metal follower rests against the perforated tube cover.
4. Fill the cap casting with lubricant flush to the bottom side of the tube threads.
5. Screw the lubricant tube into the cap casting part way only. Then insert a pencil or rod through the perforated tube cover and exert pressure against the metal follower so as to expel any entrapped air past the tube threads. When lubricant begins to ooze through the threads, tighten the lubricant tube securely in the cap casting.
6. Operate the handle back and forth for several strokes or until lubricant is pumped from the nozzle. The gun is then ready for use. If the lubricant does not flow from the nozzle in a solid stream, it is an indication that all air has not been expelled from the lubricant tube. Invert the gun and pound the cap casting end against the palm of the hand to jar the lubricant into the pump cylinder.

\* Instructions for Lubricating Motor Ball Bearings

The motor bearings are packed with grease before the motor leaves the factory and under ordinary operating conditions need no additional lubrication for

approximately two months. At the regular lubricating intervals one or two strokes of the plunger of the gun should apply sufficient grease to each bearing. To lubricate, press the nozzle of the gun against the ball roller and force the grease into the hole by pushing on the plunger of the gun. Care should be taken that the bearings are not overloaded. Overloading will result in the grease oozing out of the end castings and being forced into the motor or being thrown on other parts of the mechanism. After lubricating, the motor should be run for a few minutes and then any excess grease that has been forced out of the ends of the castings should be wiped off. Each time that the gun is used for lubricating a motor bearing, the plunger should first be depressed slightly to make sure that grease will be delivered.

CHANGE IN BULLETIN 167, ISSUE 1,  
ADJUSTMENTS OF TAPE PERFORATOR (FIVE-UNIT)

The changes outlined in this correction sheet apply only to perforators equipped with an adjustable end-of-line indicating mechanism, as indicated by the two asterisks preceding the title of the adjustment.

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Add the following adjustment after **\*\*Release Rod Holding Pawl Spring Tension:**

**\*\*Stop Screw Bracket Yield Spring Tension (Figure 7A)\***

Unhook the stop screw bracket yield spring from the spring bar. Hook a 32-oz. scale in the spring eye and pull up vertically. It should require from 15 to 19 ozs. to extend the spring to 1-5/8" as measured from the top of the formed section of the stop screw bracket to the eye of the spring. The end of the scale used to measure the length just mentioned should rest against the top of the formed section of the stop screw bracket. Rehook the spring.

Page 6

Substitute the following in place of **\*\*Release Rod Holding Pawl Stop Screw Adjustment (Figure 9):**

**\*\*Release Rod Holding Pawl Stop Screw and Bracket Adjustment**

There should be from .065" to .080" clearance between the engaging peak of the release rod holding pawl and the release rod when the pawl is held against its stop screw and the stop screw is held against its post.

To adjust, loosen the stop screw bracket mounting screws, loosen the stop screw lock nut, and adjust the screw to meet the foregoing requirement. Check to see that after the stop screw lock nut is tightened, a flat on the stop screw will bear against the stop post. Also, check to see that the spring washer assembled on the stop screw bracket mounting screw nearest the stop is around its bushing. This may be determined by moving the stop screw bracket after its mounting screws have been carefully tightened. The bracket should be free to move with an appreciable amount of friction.

Hold the stop screw bracket as far as it will go away from the stop post, position the contact screw bracket so that the contact screw is in alignment with the contact on the contact operating lever, and tighten the stop screw bracket mounting screws. Recheck the clearance between the engaging peak of the release rod holding pawl and the release rod.

Page 10

Substitute the following in place of **\*\*Indicator Gear Stop Plate Adjustment (Figure 6):**

**\*\*Indicator Gear Stop Plate Adjustment - See Note (A)**

The adjustable plate on the indicator gear provides for varying the starting position of the gear so that the lamp contacts will be closed on the 64th to 70th character perforated. When it is desired to close the contacts on the 70th character, move the plate in a counterclockwise direction, and when it is desired to close the lamp contacts on the 64th character, move the plate in a clockwise direction.

\* Adjust as follows: With the idler pinion fully in mesh with the tape feed roll pinion, position the stop plate so that the 7th tooth, for 65 characters, or 2nd tooth, for 70 characters, etc., on the indicator gear is fully in mesh with the idler pinion. With the stop screw bracket held against its stop post, and with the release rod holding pawl held against the stop screw, move the stop plate toward the release rod holding pawl so that there is from .010" to .025" clearance between the formed projection on the stop plate and the pawl.

With power on the perforator, fully depress and slowly release the carriage return key lever. Operate a key lever, other than the carriage return key lever, the desired number of times to see that the lamp lights on the proper character.

**Note:** If readjustment of the stop plate is necessary, remove power from the perforator.

After the correct position of the stop plate has been determined, carefully move the plate as far as it will go toward the center of the gear and securely tighten the adjustable plate clamping screws. Recheck this adjustment several times, with power on the perforator, normally operating the carriage return key lever.

CHANGES IN BULLETIN 167, ISSUE 1  
DESCRIPTION AND ADJUSTMENTS  
TAPE PERFORATOR  
(5 UNIT)

Page 11

PUNCH MAGNET YOKE CONTACT SPRING ADJUSTMENT (Figure 18)

Change the clearance requirement in Paragraph (b)  
to read ".020" to ".030" instead of ".015" to ".020."

REPEAT RELAY ADJUSTMENTS (Figure 19)

Change the clearance requirement in Paragraph (b)  
to read ".015" to ".018" instead of ".012" to ".015."

Change the spring tension requirement in Paragraph (c)  
to read "2-1/4 to 3 ozs." instead of "1-1/2 to 1-3/4 ozs."

Change the spring tension requirement in Paragraph (d)  
to read "1-3/4 to 2 ozs." instead of "1 to 1-1/2 ozs."

CHANGES AND ADDITIONS  
TO BULLETIN 108 (ISSUE 2)  
DESCRIPTION AND ADJUSTMENTS  
OF THE FIVE UNIT TAPE PERFORATOR  
AND  
BULLETIN 167 (ISSUE 1)  
DESCRIPTION AND ADJUSTMENTS  
TAPE PERFORATOR (FIVE UNIT)

PAGE 5, Bulletin 108  
PAGE 5, Bulletin 167

LOOP STOP SKINS ADJUSTMENT

Add the following to the first sentence in this adjustment:

"..... except in the case of the power loop."

PAGE 9, Bulletin 108  
PAGE 7, Bulletin 167

PUNCH MAGNET CONTACT SCREW ADJUSTMENT

Add the following additional requirement to this adjustment:

"When the LETTERS keylever is fully depressed, there should be at least .002" clearance between the power loop and the loop stop."

\* \* \*



CHANGES IN  
BULLETINS 108, ISSUE 2, and 167, ISSUE 1  
DESCRIPTION AND ADJUSTMENTS  
OF THE FIVE UNIT TAPE PERFORATOR

In order to prevent disengagement of the loops from the ball cranks during shipment, the 122-23 loop bearing (left) has been provided with a tapped hole and fitted with a 1035 adjusting screw and a 34-9 nut. This screw may be adjusted to hold the loops toward the right and prevent their disengagement from the ball cranks. The following adjustment applies to perforators so equipped:

BULLETIN 108, PAGE 5 - immediately preceding the LOOP SPRING TENSION  
(Figure 6)

BULLETIN 167, PAGE 4 - immediately preceding the LOOP SPRING ADJUSTMENT  
(Figure 7)

Add the following adjustment:

LOOP ADJUSTING SCREW ADJUSTMENT

There should be some clearance, not more than .015", between the outer surface of the power loop and the end of the adjusting screw at the ball crank end. To adjust, turn the adjusting screw to meet the requirement and position the lock nut.

NOTE

When making this adjustment a moderate force should be applied to the loops in the direction to make this clearance a maximum. Avoid bending or forcing the loops which may result in a false adjustment.

\* \* \*

CHANGES IN ADJUSTMENT BULLETINS

- 164, Issue 1 - Tape Perforator, Page 5
- 147, Issue 2 - Montyping Reperforator, Page 11
- 148, Issue 3 - Perforator Transmitter, Page 16
- 165, Issue 3 - Typing Reperforator, Page 2-14
- 166, Issue 2 - Perforator Transmitter, Page 18
- 171, Issue 2 - Typing Reperforator, Page 14
- 173, Issue 1 - Reperforator Transmitter Distributor, Page 25
- 193, Issue 1 - Reperforator Transmitter Distributor, Page 22
- 203, Issue 1 - Reperforator Transmitter Distributor, Page 2-15
- 167, Issue 1 - Tape Perforator, Page 6

Bulletins 173, 193, and 203 - PRSPUNCH TAPE TENSION LEVER STUD ADJUSTMENT  
Bulletins 147, 148, 165, 166, and 171 - TAPE TENSION LEVER STUD ADJUSTMENT

Change these adjustments to read as follows:

The tape tension lever stud should be centrally located with respect to the feed roll pins. This requirement should be measured as follows:

- (a) Take up the feed roll end play towards the star wheel and the tension lever end play towards its adjusting nut. The edge of the lever slot may touch the feed roll pins on the side of the pins nearest the ratchet but there must be clearance on the other side.
- (b) Take up the feed roll end play away from the star wheel and the tension lever end play away from the tension adjusting nut. The edge of the lever slot may touch the feed roll pins on the side farthest away from the ratchet but there must be clearance on the other side.

To adjust, add or remove shims between the shoulder on the tape tension lever stud and its mounting bracket.

Bulletins 164 and 167 - TAPE TENSION LEVER STUD ADJUSTMENT

Insert the above adjustment immediately before the TAPE TENSION LEVER SPRING TENSION ADJUSTMENT.

\* \* \*

### CHANGES IN ADJUSTMENT BULLETINS

- 108, Issue 2, Five Unit Tape Perforator, Page 5
- 164, Issue 1, Seven Unit Tape Perforator, Page 4
- 167, Issue 1, Five Unit Tape Perforator, Page 5

#### Release Rod Holding Pawl Eccentric Adjustment

In the bulletins listed above the following adjustment should be inserted in place of the present adjustment.

a. With the release rod latched in its operated position by the release rod holding pawl, there should be from .010" to .030" clearance between the tops of the teeth on the idler gear and the tops of the teeth on the tape feed roll pinion. Check this clearance throughout a complete revolution of the gear and pinion.

To adjust, position the release rod holding pawl eccentric.

b. Rotate the indicator gear approximately 1/4 turn and hold it in this position. With the carriage return key lever fully depressed and the release rod holding pawl in the notch in the release rod, there should be at least .004" clearance between the release rod holding pawl and the holding surface of the notch. If necessary, readjust the holding pawl eccentric within the limits of its adjustment to obtain this clearance.

\* \* \*

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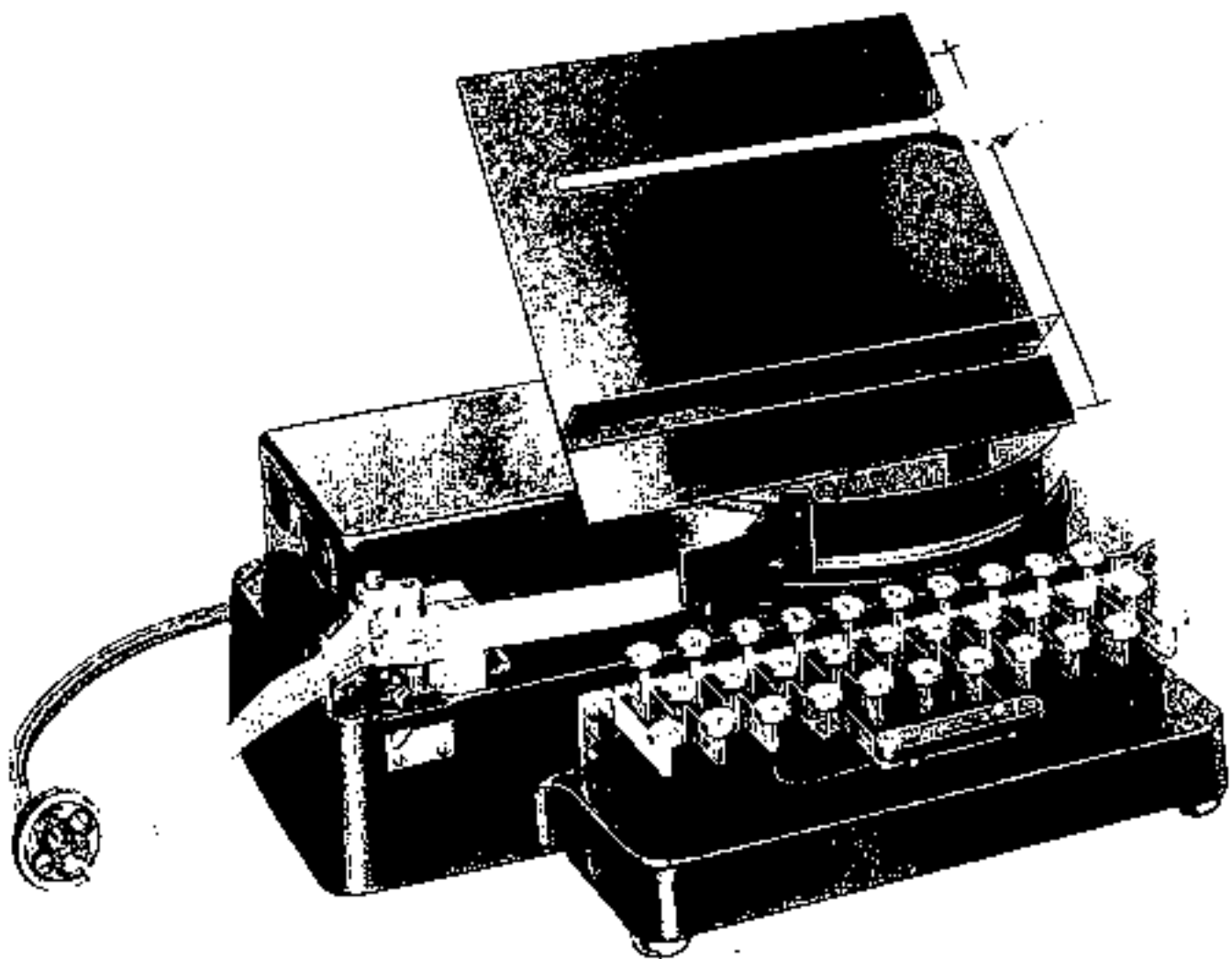
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# TELETYPE

PRINTING TELEGRAPH SYSTEMS

## DESCRIPTION AND ADJUSTMENTS TAPE PERFORATOR (FIVE UNIT)





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## DESCRIPTION OF THE FIVE-UNIT TAPE PERFORATOR

### General

The Five-Unit Tape Perforator is a unit of apparatus that is used to prepare perforated tape for automatic telegraph transmission. Combinations of holes are perforated in the tape, which correspond to the key lever depressed. The perforator taps with the code combinations thus recorded may be fed automatically through a tape transmitting device, operating a printer unit at a distant point.

The Five-Unit Tape Perforator is a self-contained magnet (solenoid type) operated, portable unit. It consists essentially of a set of keys and key levers; perforating, tape feeding, and end-of-line indicating mechanisms. The unit is equipped with a power cord and attachment plug for making connections to a source of direct current power supply.

NOTE: In all the figures of this bulletin, fixed pivot points are designated by solid black circles.

### Signaling Code

The signaling code used to transmit characters is the "Five-Unit Code," which consists of five selecting impulses used in various combinations of spacing and marking intervals. The large holes in the tape represent marking impulses, whereas the impulse positions on the tape that are not perforated represent spacing impulses. The small holes are feed holes, which are used to feed the tape through the perforator and the transmitting device. Figure 1 shows how the code combination for each character or function appears when perforated in the tape.

### Perforating Mechanism

The perforating mechanism (Figure 2) consists essentially of a set of punches for perforating the tape; a pair of punch magnets and a punch hammer for operating the punches; a set of punch bars and bell cranks; and loops and combs attached to each key lever used in selecting the punches (Figure 3). The five punch bars are fitted in guide slots in the punch hammer, just behind the punches and in line with them (Figure 2). The right end of each punch bar is attached to a bell crank and the opposite end of each bell crank engages a notch in a loop extension. Each character or function key lever has a comb with notches arranged so that its particular code combination will be selected and perforated. The combs are cut out in such a manner that the depression of a key will cause the comb to strike the top edge of one or several of the loops, moving them downward (Figure 3).

In addition to the five loops controlling the five punch bars, there is a sixth or power loop (Figure 3) which is operated by the depression of any key. The downward movement of this loop closes the punch contacts (Figure 2), energizing the punch magnet, and thus operating the punch hammer.

The depression of a loop causes the punch bar connected to it to be moved away from a punch so that when the punch hammer is operated by the magnet, the tape will not be perforated at this position; but when a loop is not depressed, the punch bar connected to it will be allowed to remain in the path of a punch and a hole will be perforated. A feed hole is perforated with each forward movement of the punch hammer.

For instance, if the "K" key lever is depressed, only the #5 punch bar will be moved away from its punch. All the other punch bars, however, will be driven against their punches, causing the first four impulses to be perforated in the tape (Figure 1).

### Tape Feeding Mechanism

The tape feed roll is located to the left of the punches (Figure 2). Spaced at equal intervals around the tape feed roll is a series of projecting feed pins which mesh with the feed holes punched in the tape. A tape tension lever holds the tape against the tape feed roll, keeping the feed holes in the tape in constant mesh with the tape feed roll pins.

During the forward movement of the punch hammer, the tape feed pawl, which is attached to the punch hammer, engages a tooth on the tape feed roll. When the punch hammer moves back, the tape feed roll will revolve, advancing the tape one character space. A star wheel affixed to the lower end of the feed roll and a detent insure equal spacing of the tape (Figure 4).

### End-of-Line Indicating Mechanism (Nonadjustable) - See Note (A)

The end-of-line indicating mechanism is intended for use in connection with page printer reception. When sixty-four or sixty-five combinations have been perforated in the tape, a red lamp, under the keyboard, is lighted by the closing of contacts. These contacts are closed by the action of the indicator gear (Figure 5). This gear meshes, through an idler gear mounted on a lever, with the tape feed roll pinion on the tape feed roll. Whenever the tape feed roll moves the tape forward one space, the indicator gear is advanced one tooth.

Mounted on the indicator gear is a pin "A" (Figure 5). When the indicator gear is advanced sixty-four or sixty-five teeth from its starting position, pin "A" will move the lamp contact lever so that its contact spring will touch the lamp contact screw, lighting the lamp.

The advancing of the indicator gear winds up an indicator return spring, one end of which is attached to the indicator gear. When the operator depresses the "Carriage Return" key, the key lever strikes a ball crank which moves the release rod to the left. This throws the indicator idler gear out of mesh with the tape feed roll pinion and the indicator gear is returned to its starting position by the indicator return spring.

Since the "Carriage Return" key may not be held depressed long enough to allow the indicator gear to completely return to its starting position, a release rod holding pawl is provided to insure that the gears stay out of mesh while the indicator gear is returning. This holding pawl moves into a notch in the release rod when the release rod is in its left-hand position. When the indicator gear is almost returned to its starting position, pin "B" (on the indicator gear) moves the holding pawl out of the notch in the release rod and permits the gears to again mesh.

### End-of-Line Indicating Mechanism (Adjustable) - See Note (A)

The adjustable end-of-line indicating mechanism (Figure 6) is similar to the non-adjustable end-of-line indicating mechanism described in the foregoing except for the following:

- (A) When the perforator is used to transmit to tape printers, wires to the lamp circuit are disconnected (See Figure 20).

The adjustable end-of-line indicating mechanism has an adjustable stop plate mounted on the indicator gear. A projection, extending downward from this stop plate, is used instead of pin "B" to move the release rod holding pawl out of the notch in the release rod.

The adjustable stop plate moves the release rod holding pawl against an adjustable stop screw which determines the stop position of the indicator gear. The adjustable stop plate may be positioned so that the lamp contacts close on any operation from the sixty-fourth to the seventieth.

#### Backspace Lever

A backspace lever is provided for moving the tape backwards for the correction of errors (Figure 4). When the backspace lever is being moved from left to right, it engages a pin projecting from the tape feed pawl and cams the tape feed pawl out of engagement with the tape feed roll ratchet. Toward the end of the travel of the backspace lever, the backspace pawl (which is mounted on the backspace lever) engages a tooth of the star wheel, rotating it backwards one space. The "Letters" key may then be depressed, causing five holes to be perforated over the previous perforation. This combination may be passed through the tape transmitting device without causing any character or letter to be printed on the receiving printer. However, if a character in the upper case is corrected, it will be necessary to strike the shift key (Figures) again, because the "Letters" combination will unshift the receiving printer.

#### Repeat Mechanism

The repeat mechanism provides a means of continually perforating a desired code combination in the tape. With any key lever and the repeat push button simultaneously held depressed, the code combination corresponding to the key lever depressed will continue to be perforated until the repeat push button is released.

When any key lever is held depressed, the punch magnet circuit is completed through the punch magnet contacts (Figure 20). The operation of the punch magnet permits the magnet yoke contacts to close, completing a circuit through the winding of the repeat relay if the repeat push button is depressed. The operation of the repeat relay breaks the punch magnet circuit. The punch magnet yoke is released, opening its contacts, which open the repeat relay circuit. The repeat relay releases its armature, closing the punch magnet circuit, thus setting up a repeated cycle of operation. Repeat action will continue as long as any key lever and the repeat push button are simultaneously held depressed.

## ADJUSTMENTS OF THE FIVE-UNIT TAPE PERFORATOR

The following adjustments are arranged in a sequence that would be followed if a complete readjustment of the perforator were undertaken. This fact should be kept in mind when a single adjustment is to be made.

The spring tension values given in this bulletin were derived from measurements made with Teletype spring scales. These spring scales are calibrated for use in a vertical "pull" position. When used in any other position, the reading is an indicated value. Therefore, in order to obtain the proper spring value readings, the spring scales which are included in the Teletype printer catalog tool list should be used.

NOTE: Adjustments marked with two asterisks (\*\*) apply only to perforators equipped with the adjustable end-of-line indicating mechanism, and replace similar adjustments marked with one asterisk (\*) which apply only to perforators equipped with the nonadjustable end-of-line indicating mechanism. All other adjustments apply to perforators equipped with either the adjustable or the nonadjustable end-of-line indicating mechanism.

### Loop Spring Adjustment (Figure 7)

With the perforator resting on its right-hand side, hook an 8 oz. scale over each loop approximately at its center, and pull in a direction away from the key levers. It should require from 1-1/2 to 2 ozs. to start the punch bar loops moving away from the key levers and 2-1/2 to 3 ozs. to move the power loop away from the key levers.

Adjust the punch bar loop and power loop springs by bending.

### Key Lever Spring Adjustment (Figure 7)

The opening between the ends of all key lever springs, excepting the "Space" key lever spring, should measure 1-5/8". The "Space" key lever spring should measure 2" across the opening between the ends.

Adjust by bending.

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NOTE: After making a single adjustment, check related adjustments.

### Loop Stop Shims Adjustment

When the "Blank" key lever is fully depressed, there should be from .002" to .030" clearance between the loops and the loop stop.

Adjust the position of the loop stop by means of shims. See Figure 7.

### \*Release Rod Holding Pawl Spring Tension

Unhook the release rod holding pawl spring from its post. Hook an 8 oz. scale in the spring eye and pull up vertically. It should require from 1-1/4 to 2-1/2 ozs. to extend the spring to 1" measured from the top of the release rod holding pawl to the outside loop of the spring. Replace the spring.

### \*\*Release Rod Holding Pawl Spring Tension

Unhook the release rod holding pawl spring from its bracket, hook an 8 oz. scale in the spring eye and pull up vertically. It should require 1/2 to 1-1/2 ozs. to extend the spring to 3/4" measured from the top of the release rod holding pawl to the outside loop of the spring. Replace the spring.

### Release Rod Holding Pawl Eccentric Adjustment (Figure 8)

With the release rod latched in its operated position by the release rod holding pawl, there should be some clearance, not over .010", between the tops of the teeth on the idler gear and the tops of the teeth on the tape feed roll pinion. Check this clearance throughout a complete revolution of the gear and pinion.

To adjust, position the release rod holding pawl eccentric.

Rotate the indicator gear approximately 1/4 turn and hold it in this position. With the carriage return key lever fully depressed and the release rod holding pawl in the notch in the release rod, there should be some clearance, not less than .004", between the release rod holding pawl and the holding surface of the notch. If necessary, readjust the holding pawl eccentric within the limits of its adjustment to obtain this clearance.

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NOTE: After making a single adjustment, check related adjustments.

Release Rod Holding Pawl Stop Screw Adjustment (Figure 9)

There should be .105" to .120" clearance between the engaging peak of the release rod holding pawl and the release rod when the pawl is held against its stop screw and the stop screw is resting against its post.

To adjust, loosen the stop screw bracket mounting screws, loosen the stop screw lock nut, and adjust the screw to meet the foregoing requirement. Position the stop screw so that a flat on the stop screw rests against the stop post before tightening the stop screw lock nut. Hold the stop screw against its stop post, position the contact screw bracket so that the lamp contact screw is in alignment with the contact on the lamp contact spring, and tighten the screws which mount both brackets. See Figure 6 for location of parts. Recheck the clearance between the engaging peak of the release rod holding pawl and the release rod.

Idler Lever Spring Tension

Unhook the release rod spring. With the indicator gear in its returned position, hook an 8 oz. scale over the release rod bell crank at the "Carriage Return" key lever and pull upwards at right angles to the key levers. It should require from 5 to 8 ozs. to start the idler lever moving. Replace the release rod spring. See Figure 8 for location of parts.

Release Rod Spring Tension

With the indicator gear in its returned position, apply the push end of an 8 oz. scale to the right end of the release rod (through the hole in the casting), and push in line with the release rod. It should require from 1 to 3-1/2 ozs. to start the release rod moving. See Figure 8 for location of parts.

NOTE: While taking this tension, hold the idler gear away from the feed roll pinion just enough to disengage the two.

Lamp Contact Lever Spring Tension

Unhook the lamp contact lever spring from its post. With the perforator upside down, hook an 8 oz. scale in the spring eye and pull up vertically. From 6 to 7-1/2 ozs. should be required to extend the spring to 1-7/8". Replace the spring on the spring post.

Tape Tension Lever Spring Tension Adjustment (Figure 10)

Hook an 8 oz. scale over the end of the slotted extension of the tape tension lever and pull at right angles to the lever. It should require from 5 to 5-1/2 ozs. to start the lever moving away from the tape feed roll.

To adjust, loosen the tape tension lever shaft lock nut and turn the spring, by rotating the tape tension lever shaft to obtain the required tension.

Tape Feed Roll Dotent Roller Eccentric Preliminary Adjustment (Figure 11)

With the punch hammer in the operated position, insert the tape feed roll positioning gauge (Catalog No. 73517) into the punch block so that the projection of the

NOTE: After making a single adjustment, check related adjustments.

gauge stops against the tape feed hole punch. Under this condition a pin of the tape feed roll should line up with the center hole on the gauge.

To adjust, remove the indicator gear and adjust the position of the tape feed roll by means of the detent lever eccentric. See Figure 12 for location of parts.

#### Tape Feed Roll Detent Lever Spring Tension (Figure 12)

Remove the cover plate which covers the opening in the casting for the backspace lever. Hold the backspace lever in the operated position and insert the push end of a 12 lb. scale through the opening in the casting. Apply the scale to the arm of the detent lever where the spring is hooked as close to the spring as possible, and push parallel to the spring toward the rear of the perforator. It should require from 3 to 4 lbs. to start the lever moving.

#### Backspace Pawl Spring Tension (Figure 13)

Insert an 8 oz. scale through the opening in the casting. Hook the scale over the right end of the backspace pawl and pull towards the front of the perforator at right angles to the pawl. It should require from 1-1/4 to 2 ozs. to start the backspace pawl moving. Replace cover plate.

#### Backspace Lever Spring Tension (Figure 13)

Hook an 8 oz. scale over the backspace lever near the cover plate and pull at right angles to the backspace lever. It should require from 1 to 1-1/2 ozs. to start the backspace lever moving.

#### Tape Feed Pawl Eccentric Adjustment (Figure 14)

When the punch bars are just touching the punches, the tape feed pawl should engage a tooth on the tape feed roll ratchet without overtravel.

Adjust the tape feed pawl eccentric to meet this requirement.

#### Tape Feed Pawl Spring Tension (Figure 14)

Hook an 8 oz. scale in the notch of the tape feed pawl. With the tape feed pawl resting against the tape feed roll, pull the scale parallel to the lower mounting strip of the celluloid tape chute. It should require from 2 to 3 ozs. to start the tape feed pawl moving away from the tape feed roll.

#### Punch Magnet Contact Screw Adjustment

The punch magnet contact should be adjusted so that the contacts close with sufficient operating margin when any key lever is depressed.

To adjust, back off the contact screw, depress a key lever, and advance the contact screw enough to just make contact. In this manner, depress every key lever and determine which key lever gives the contact spring the least travel. With this key lever depressed, turn the contact screw just enough to close the contacts. Then give the contact screw one full additional turn and tighten the lock nut.

---

NOTE: After making a single adjustment, check related adjustments.

### Plunger Rod Adjustment

Connect the perforator to the proper power supply.

The plunger rod should be adjusted so that all the punches are driven through the tape with proper operating margin. This adjustment may be made as follows: Place a piece of tape between the die plates. Loosen the lock nut and back off the plunger rod head until perforations in the tape are incomplete when the "Letters" key is depressed. Advance the plunger rod head slowly until all the perforations are just punched cleanly in the tape. Then give the plunger rod head an additional one-third turn and tighten the lock nut against its head. See Figure 2 for location of parts.

### Punch Hammer Spring Tension (Figure 14)

With the punch hammer in the unoperated position, hook a 12 lb. scale over the punch hammer, just above the plunger rod head, and pull towards the front of the perforator and in line with the punch hammer spring. It should require from 5 to 6 lbs. to start the punch hammer moving.

### Bell Crank Adjustment

The end of each punch bar should be in alignment with the left edge of its corresponding punch when no key levers are depressed.

Adjust by bending the bell cranks to the left or right. To do this, hold the loop extensions in their unoperated position with the thumb and grasp the end of the bell cranks with a pair of long nose pliers. See Figure 2 for location of parts.

### Tape Tension Spring Adjustment

The tape tension spring should hold the tape upward firmly against the guide on the die block, without buckling the tape. Check this tension by pressing the edge of the tape against the spring. When the pressure on the tape is released, the spring should return the tape so that it is firmly against the top of the guide.

Adjust by bending the tape tension spring. See Figure 2 for location of parts.

### Tape Feed Roll Detent Roller Eccentric Final Adjustment (Figure 15)

Refine the tape feed roll detent eccentric adjustment, if necessary, so that the perforations in the tape meet the standard spacing of ten holes to the inch. This may be checked by perforating a length of tape consisting of a series of nine "Blanks" followed by a "Letters" combination and checking it against the tape gauge (catalog No. 2215).

NOTE: If this adjustment is changed, recheck the "Tape Feed Pawl Adjustment."

### \*Indicator Gear Return Spring Tension Adjustment (Figure 16)

Rotate the indicator gear as far as it will go in a counterclockwise direction.

NOTE: After making a single adjustment, check related adjustments.



Loosen the indicator gear shaft retaining nut and rotate the spring retaining plate in a clockwise direction until the spring is wound tightly. Then rotate the spring retaining plate one turn in a counterclockwise direction and tighten the nut.

If the indicator gear return spring is wound too tightly, it will bind and the indicator gear will not return to its initial position when the "Carriage Return" key lever is depressed. If the indicator gear return spring is not wound tightly enough, the indicator gear will be slow in returning, and perhaps will not have force enough to disengage the release rod holding pawl out of the notch in the release rod.

**\*\*Indicator Gear Return Spring Tension Adjustment (Figure 17)**

In order to check this adjustment, it is necessary to remake it. Rotate the indicator gear in a counterclockwise direction until the idler gear is in mesh with the last tooth on the indicator gear. Loosen the indicator gear shaft retaining nut and rotate the spring retaining plate in a clockwise direction until the spring is wound tightly. Then rotate the spring retaining plate one turn in a counterclockwise direction, set the lamp contact lever stop so that the end of the lamp contact lever will rest approximately midway between the ends of the formed section of the stop, and tighten the nut.

If the indicator gear return spring is wound too tightly, it will bind and the indicator gear will not return to its initial position when the "Carriage Return" key lever is depressed. If the indicator gear return spring is not wound tightly enough, the indicator gear will be slow in returning, and perhaps will not have force enough to disengage the release rod holding pawl out of the notch in the release rod.

**\*Indicator Lamp Contacts Adjustment (Figure 16) - See Note (A)**

The indicator lamp should light on the sixty-fourth or sixty-fifth character perforated.

To adjust, return the indicator gear to its starting position (with the pin on the gear resting against the end of the lamp contact lever) by operating the release rod. Connect the perforator to the proper power source, adjust the lamp contact screw so that when a character key lever is operated sixty-five times, the lamp lights on the sixty-fifth character, and give the screw an additional 1/4 turn.

**\*\*Indicator Lamp Contacts Adjustment (Figure 17)**

In order to check this adjustment, it is necessary to remake it. Adjust the lamp contact screw so that the contacts just close when the idler gear is in mesh with the last tooth on the indicator gear. Then advance the screw 1/4 turn and tighten the lock nut.

- (A) The indicator gear is not always fully returned to its starting position; therefore, the lamp may light one character early.

NOTE: After making a single adjustment, check related adjustments.

**\*\*Indicator Gear Stop Plate Adjustment (Figure 6) - See Note (A)**

The adjustable stop plate on the indicator gear provides for varying the starting position of the gear so that the lamp contacts will close when sixty-four to seventy characters have been perforated. To check the adjustment, fully depress the carriage return key lever and release it slowly. With the perforator connected to the proper power source, count the number of character key lever operations required to light the indicator lamp. If it is desired to light the lamp earlier, it will be necessary to move the stop plate in a clockwise direction; and if it is desired to light the lamp later, the stop plate must be moved in a counterclockwise direction.

To adjust, loosen the stop plate mounting screws and position the plate. After the correct position of the stop plate has been determined, carefully move the plate toward the center of the gear as far as it will go and tighten the mounting screws securely. Recheck the adjustment several times, operating the carriage return key lever in a normal manner.

**Tape Reel Tension Lever Spring Tension**

Loosen the three tape reel assembly mounting screws and remove the tape reel assembly from the perforator. Hook an 8 oz. scale over the tape tension lever at the right angle, bend to the rear of the pivot screw, and pull toward the right rear corner of the perforator. It should require from 1-1/2 to 2-1/4 ozs. to start the lever moving. Replace the tape reel assembly. See Figure 2 for location of parts.

**Method of Starting Tape in Perforator**

Tear the tape squarely and insert it between the die plates of the punch block. Pull the tape tension lever away from the tape feed roll, and push the tape forward until the end of the tape is in position between the tape feed roll and the tape tension lever. Now press the tape tension lever against the tape feed roll, which will cause the projecting pins in the tape feed roll to grip the tape. Strike the "Blank" key a number of times and the tape will feed forward.

**Punch Magnet Yoke Contact and Bracket Assembly Adjustment (Figure 18)**

- (a) The spring hole in the magnet yoke suspension spring arm should be in the plane of the rear surface of the magnet yoke when the yoke is in the middle of its travel.

To adjust, loosen the magnet yoke contact bracket mounting screws and position the bracket. Tighten the mounting screws.

- (b) The magnet yoke suspension spring should appear to be vertical as viewed from the front of the perforator; and the tension of the spring should just balance the weight of the magnet yoke.

To adjust, loosen the suspension spring arm mounting screws and position the arm. Tighten the mounting screws.

- (A) The indicator gear is not always fully returned to its starting position; therefore, the lamp may light one character early.

NOTE: After making a single adjustment, check related adjustments.

Punch Magnet Yoke Contact Spring Adjustment (Figure 18)

- (a) With the magnet yoke attracted, hook an 8 oz. scale to the rear contact spring, at the contact point, and pull at right angles to the contact spring. It should require 2 to 3 ozs. to just open the contact points.

To adjust, bend the rear contact spring.

- (b) There should be .015" to .020" clearance between the contact points when the magnet yoke is in the unoperated position.

To adjust, bend the front contact spring. Recheck (a).

REMOVE THE RELAY GUARD TO CHECK THE FOLLOWING ADJUSTMENTS:

Repeat Relay Adjustments (Figure 19)

- (a) With the contact spring held away from the armature, there should be .002" to .010" clearance between the pole piece and the armature.

To obtain this clearance, it may be necessary to back off the armature stop nut all the way and pull the armature away from its pole piece. See Figure 19-A.

NOTE: Care should be taken to keep the armature parallel to the pole piece.

- (b) When the armature is held against the pole piece, there should be .012" to .015" clearance between the armature and the stop nut. To adjust, position the stop nut. See Figure 19-B.

- (c) Hold the armature contact spring off and hook an 8 oz. scale over the backstop contact spring, at the contact point, and pull at right angles to the contact spring. It should require 1-1/2 to 1-3/4 ozs. to start the contact spring moving away from the fibre insulator on the relay spool.

Adjust by bending the backstop contact spring. See Figure 19-C.

- (d) With the armature held against the pole piece, apply the push end of an 8 oz. scale to the armature contact spring, at the contact point, and push at right angles to the contact spring. It should require 1 to 1-1/2 ozs. to start the contact spring moving away from the fibre stud on the armature.

Adjust by bending the armature contact spring. See Figure 19-C.

- (e) When the armature is held against the stop nut, there should be some clearance, not more than .002", between the armature contact spring and the fibre stud on the armature.

To adjust, bend the stop lug on the backstop contact spring. See Figure 19-D.

- (f) Recheck (c).

- (g) When the armature is held against its pole piece, there should be .006" to .010" clearance between the contact points. See Figure 19-C.

NOTE: After making a single adjustment, check related adjustments.

LUBRICATION SPECIFICATION

The lubricants listed in Specification S-5288 should be used to lubricate the keyboard tape perforator.

Unless otherwise specified, one or two drops of oil at each of the places indicated will be sufficient. Use oil for lubrication at all of the places listed below, except where the use of grease is specified.

A. Locations on the Bottom of the Perforator

1. Key levers - key lever shaft and rear comb slots.
2. Loops - bearings.
3. Backspace lever - pivot and at pawl bearing screw.
4. Tape feed roll star wheel and pinion.
5. Tape feed roll detent - roller and bearing screw.
6. Lamp contact lever pivot.
7. Release rod - bearings.
8. Release rod ball crank - pivot and at point of contact with key lever.
9. Release rod holding pawl pivot and point of contact with release rod.
10. Indicator gear return spring.
11. Idler lever - pivot and idler gear.
12. All helical tension spring loops.

B. Locations on the Top of the Perforator

1. Tape feed roll - bearings, ratchet teeth.
2. Tape tension lever bearing.
3. Punch block - all hole, punches, guide pins.
4. Tape feed pawl - pivot and spring loops.
5. Punch hammer oil hole.
6. Punch bars - retaining slots in punch hammer and pivots on bell cranks.
7. Bell cranks - bearings and at points of engagement with loop extensions.
8. Punch magnet plunger rod - at magnet bracket.
9. Punch hammer spring front loop.
10. Punch magnet yoke - at ends of solenoid (one drop only; avoid excess).
11. Tape reel tension lever - pivot.
12. Tape reel hub oil hole.
13. Key lever front guide comb slots.
14. Space bar loop - bearings and at point of engagement with its key lever.
15. Magnet yoke suspension spring loops.

UPPER CASE	WEATHER SYMBOLS	COMMUNICATIONS	LOWER CASE	↑ ⊕	⊕ ?	⊕	↗	↖	↘	↙	↗	↖	↘	↙	←	↖	• ⊕	• ⊕	⊕ 9	⊕ 0	⊕ 1	⊕ 4	BELL	5	7	⊕	2	/	6	+	BLANK	C.R. /	L.F.	SPACE	LTR. SHIFT	FIG. SHIFT	
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	;	⊕	2	/	6	+									
1	●	●		●		●			●	●	●					●			●			●	●			●							●				
2	●		●			●	●			●	●		●			●			●		●	●				●						●					
3	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
4	●	●		●		●	●			●	●		●			●			●		●	●			●									●			
5	●							●								●			●							●										●	

FEED HOLES →

FIGURE 1

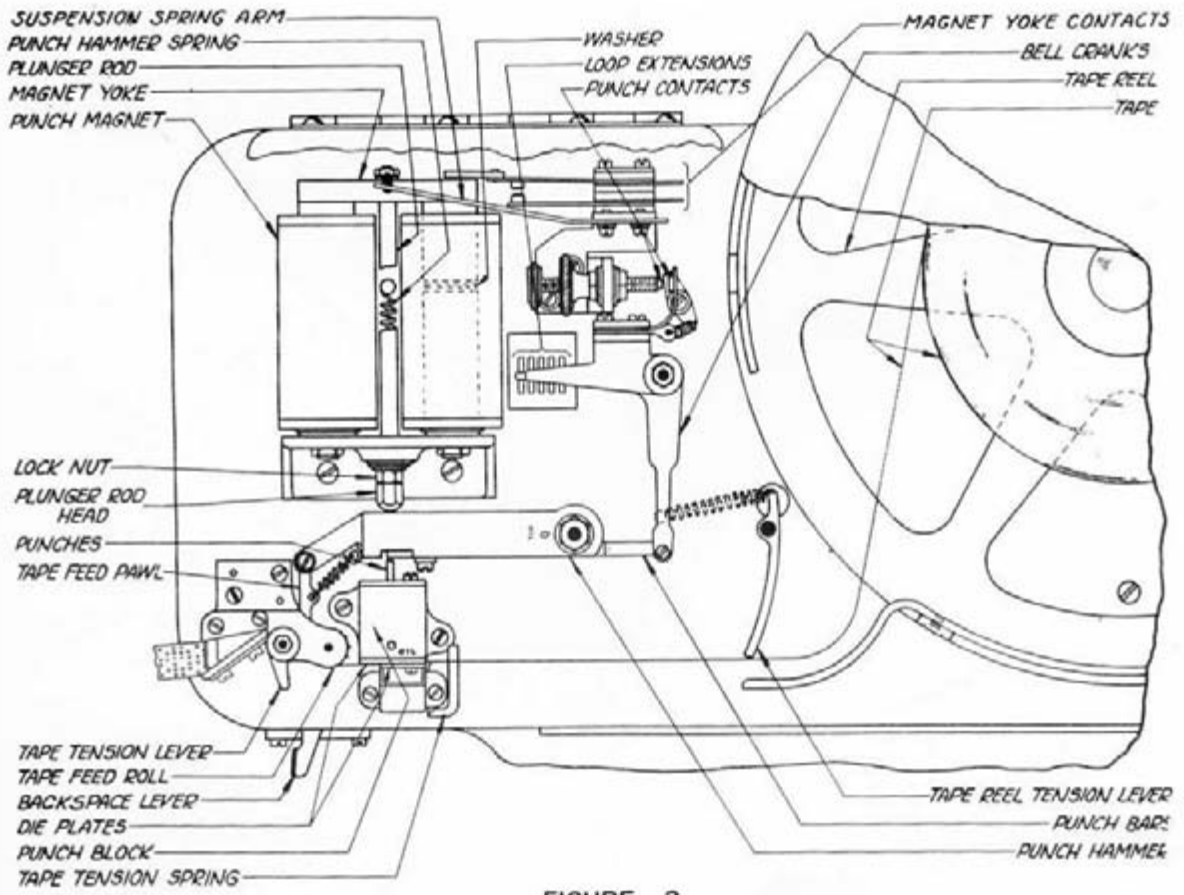


FIGURE 2

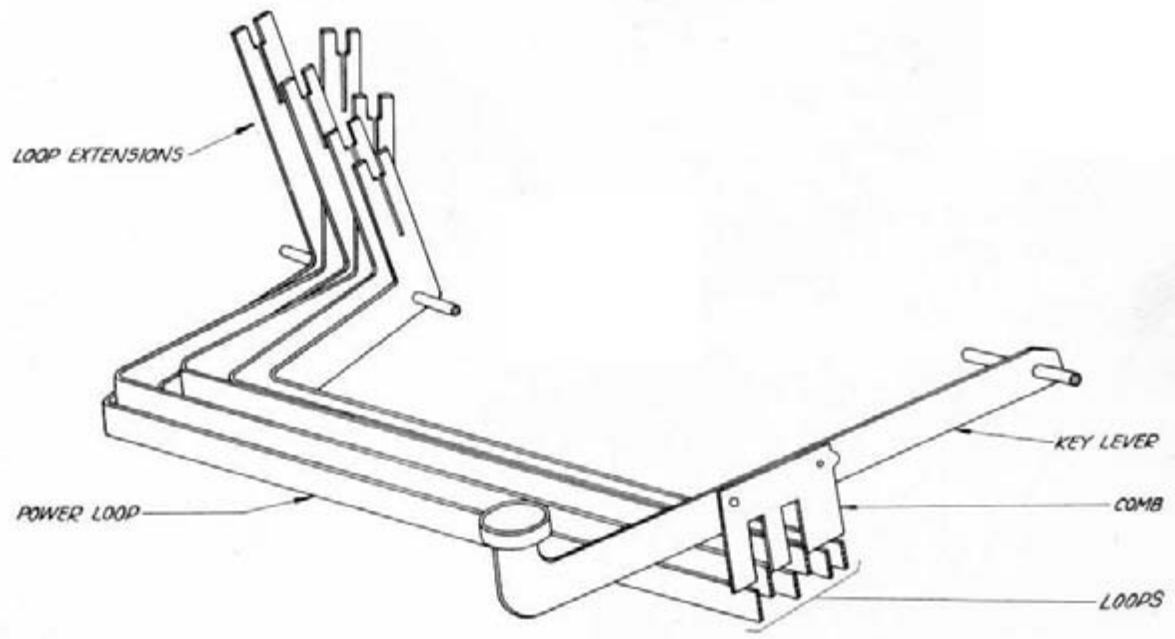


FIGURE 3

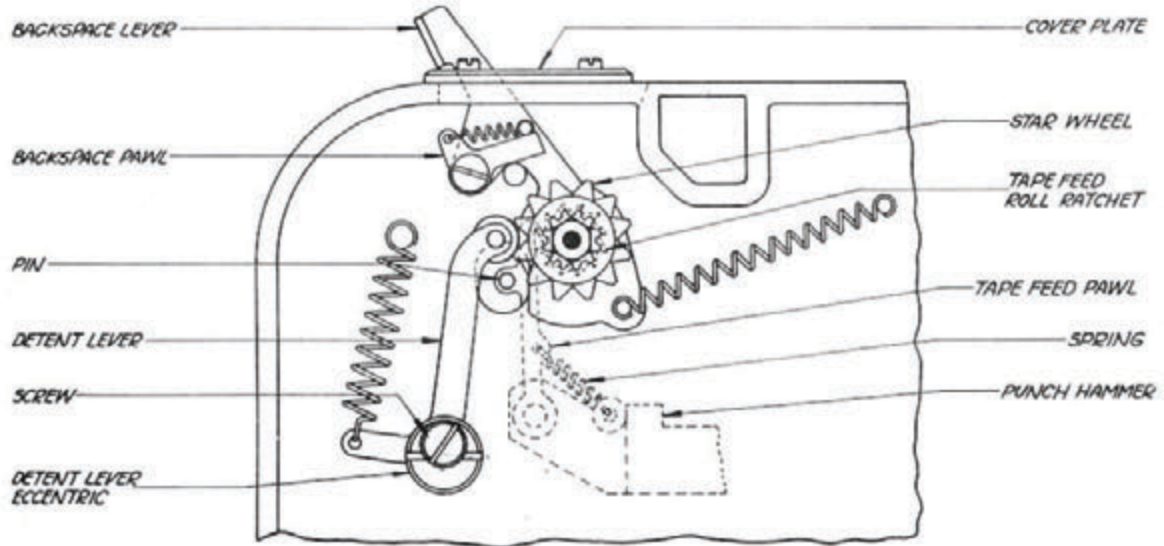


FIGURE 4

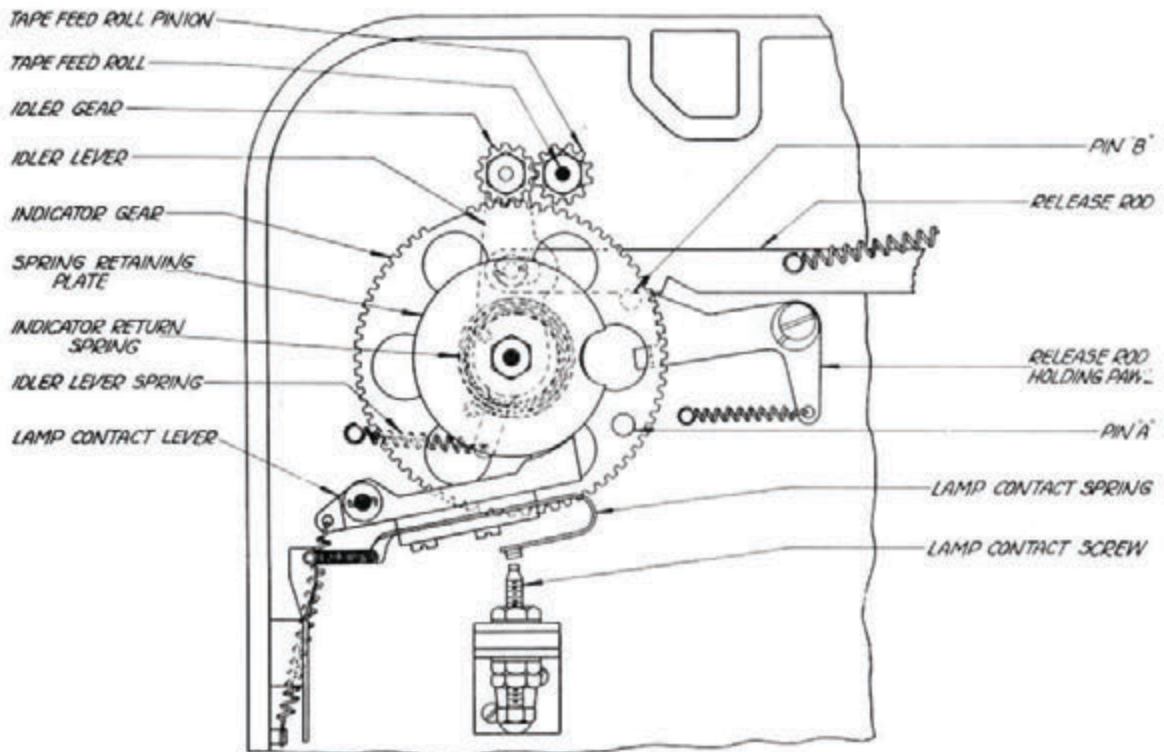


FIGURE 5

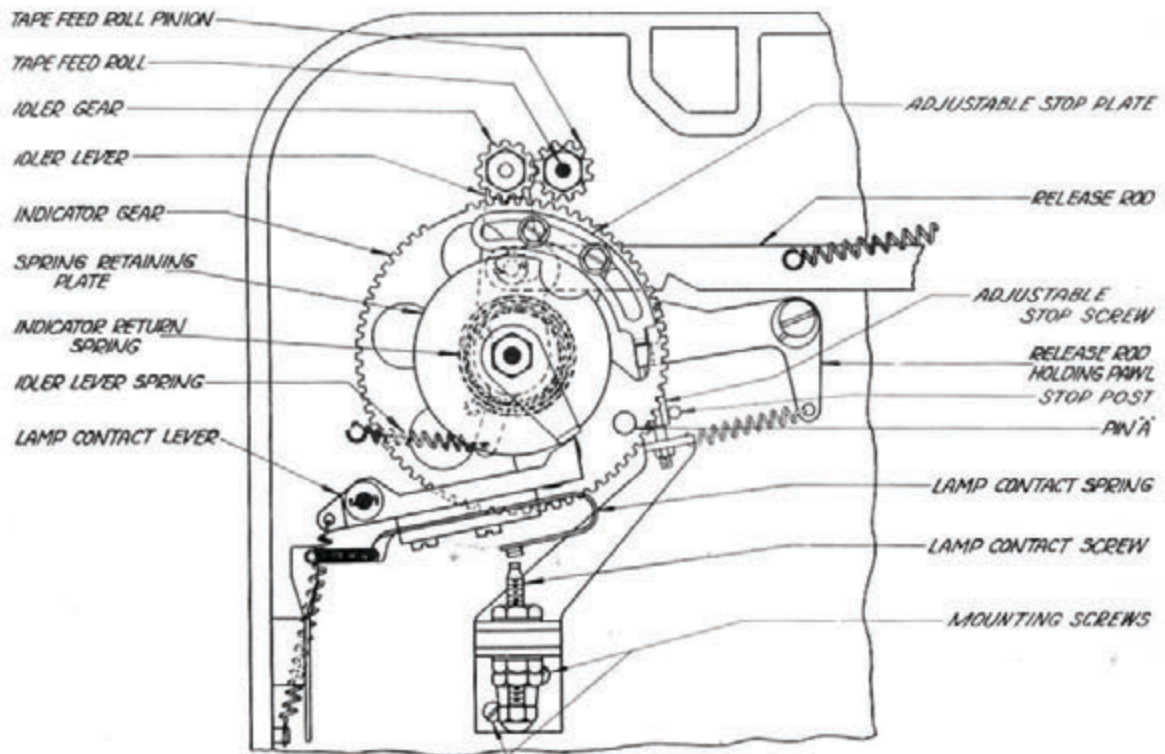


FIGURE 6

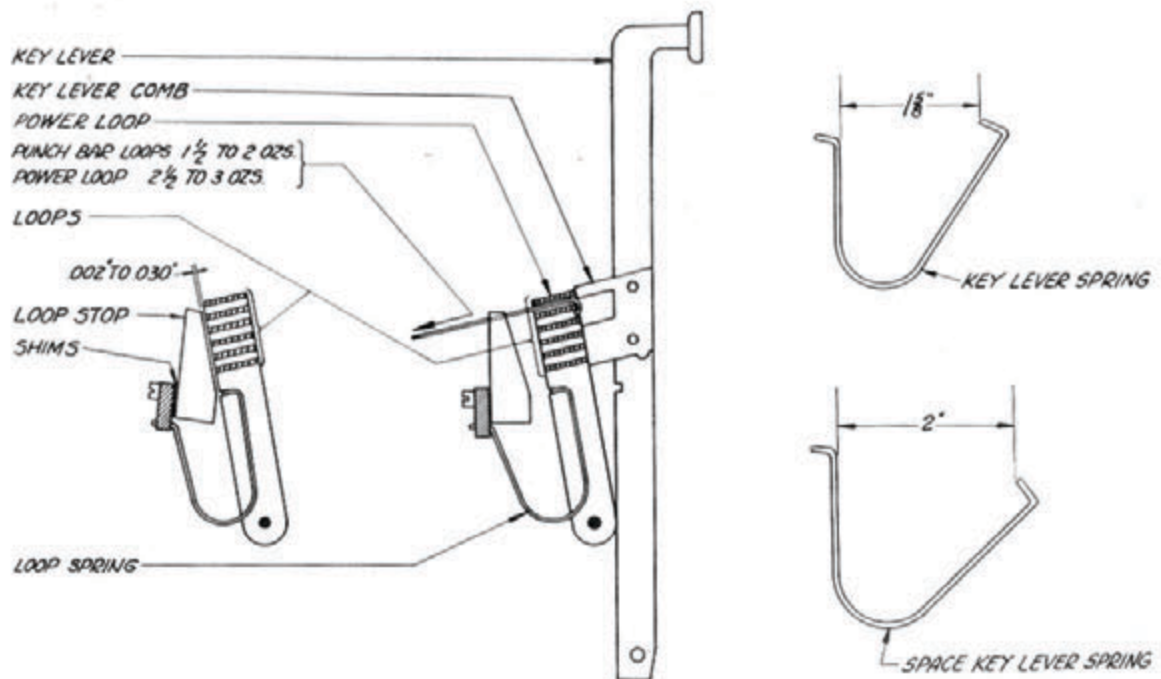


FIGURE 7



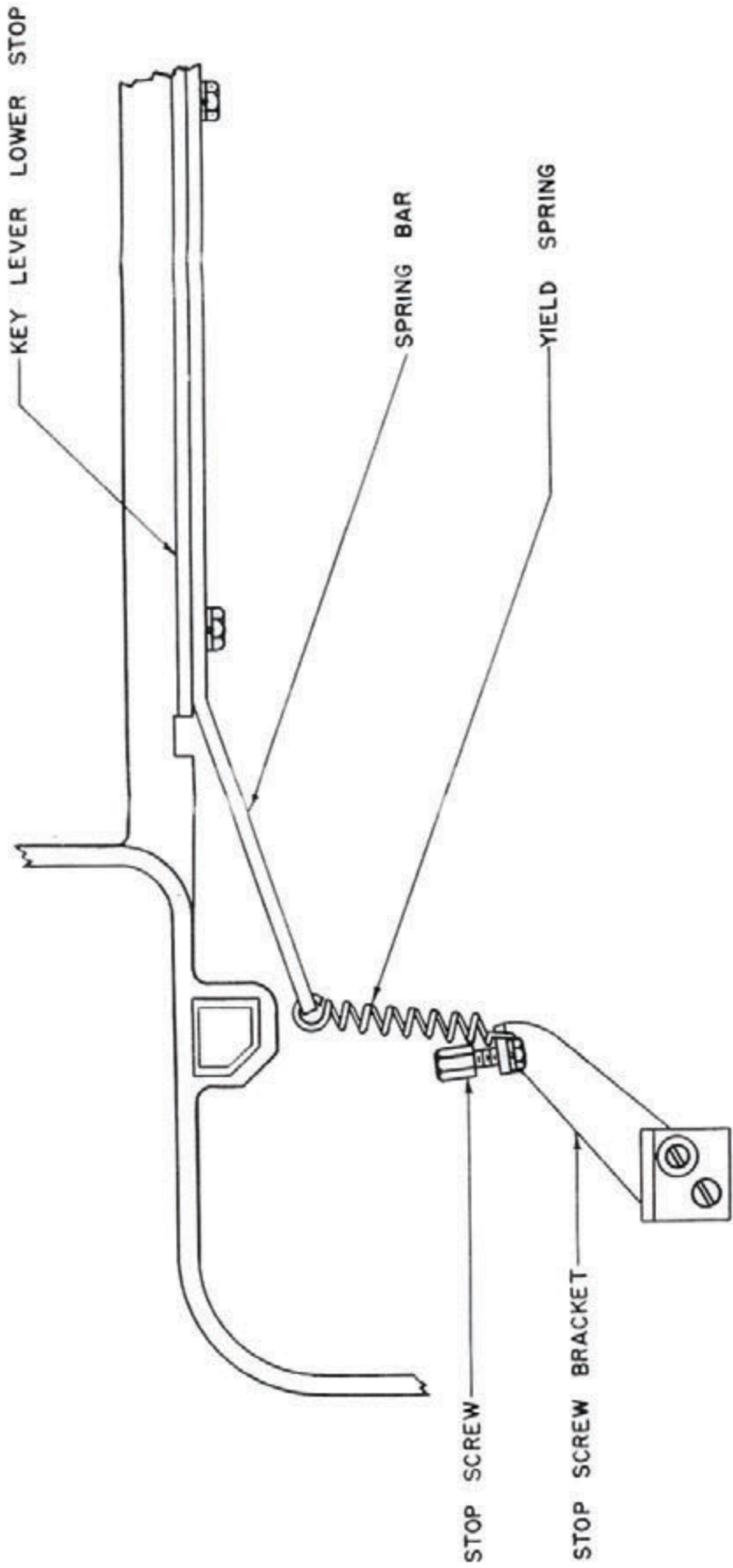


FIGURE 7A

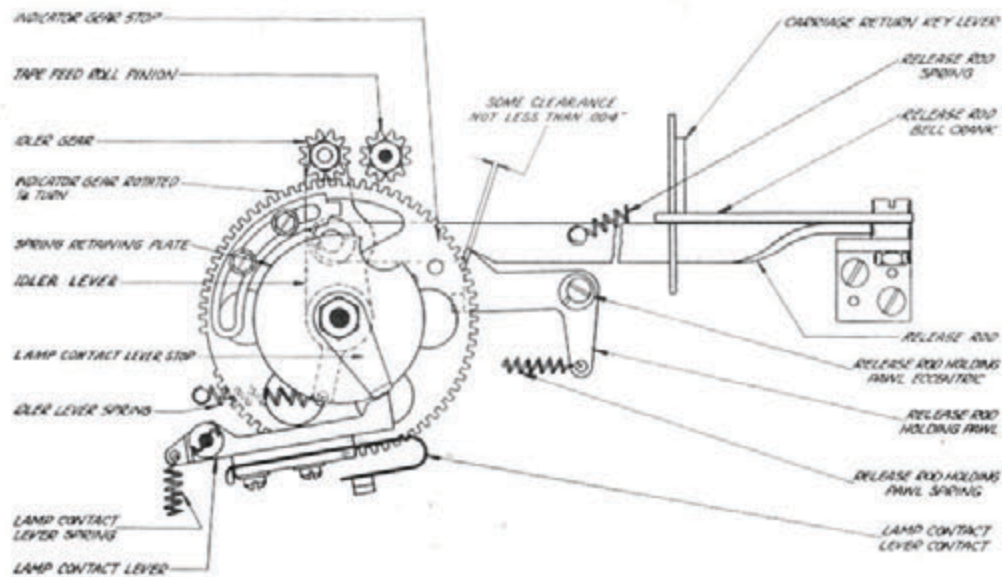


FIGURE 8

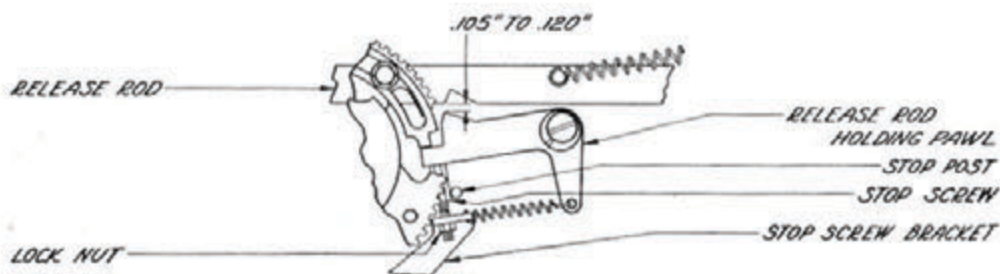


FIGURE 9

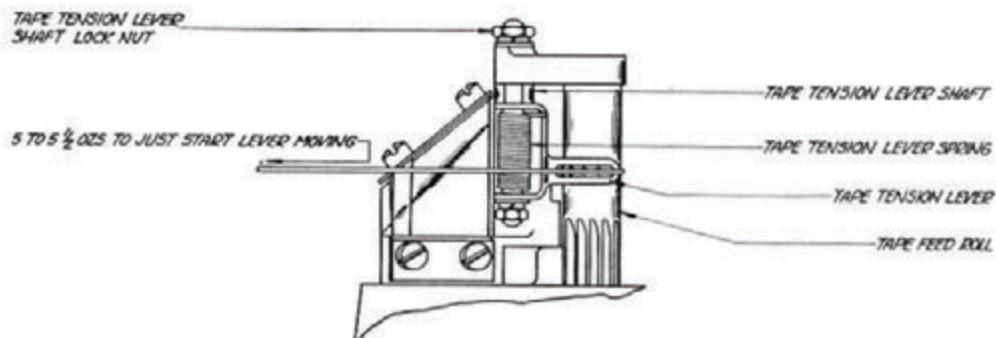


FIGURE 10

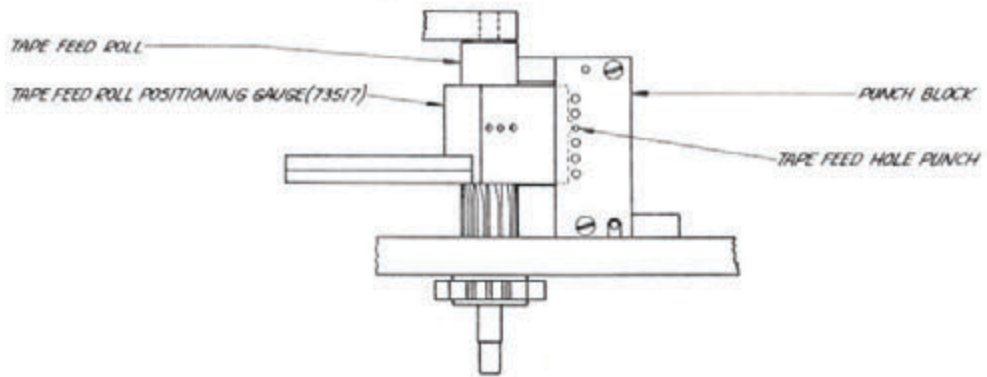


FIGURE 11

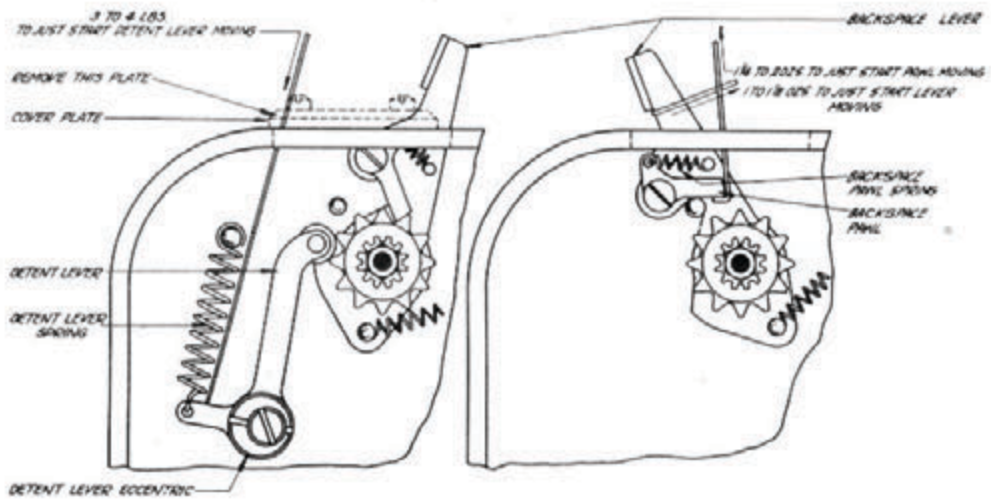


FIGURE 12

FIGURE 13

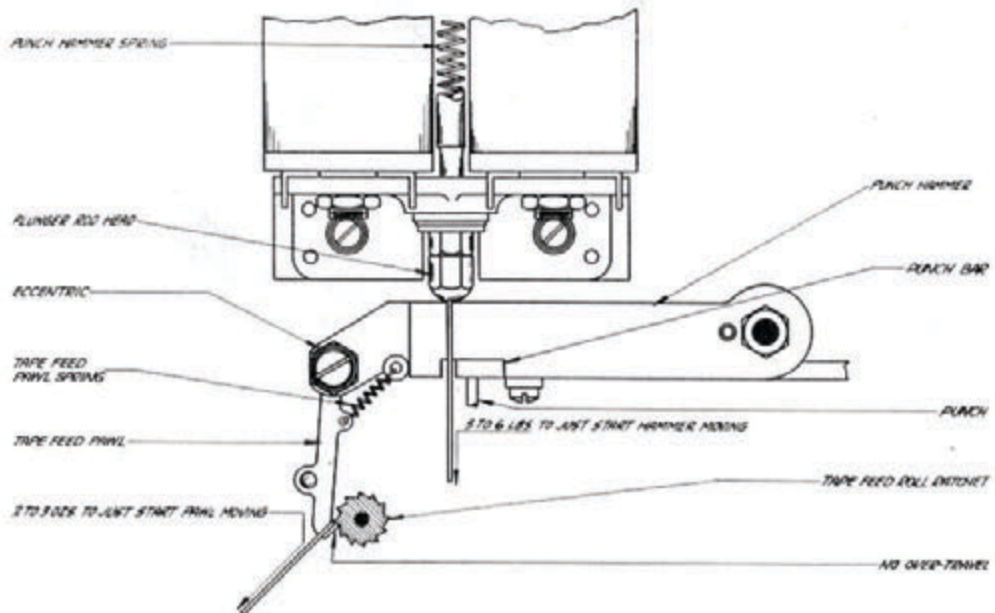


FIGURE 14

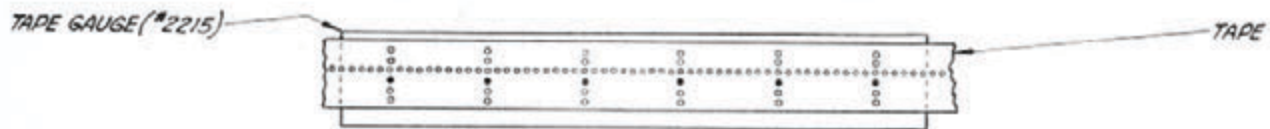


FIGURE 15

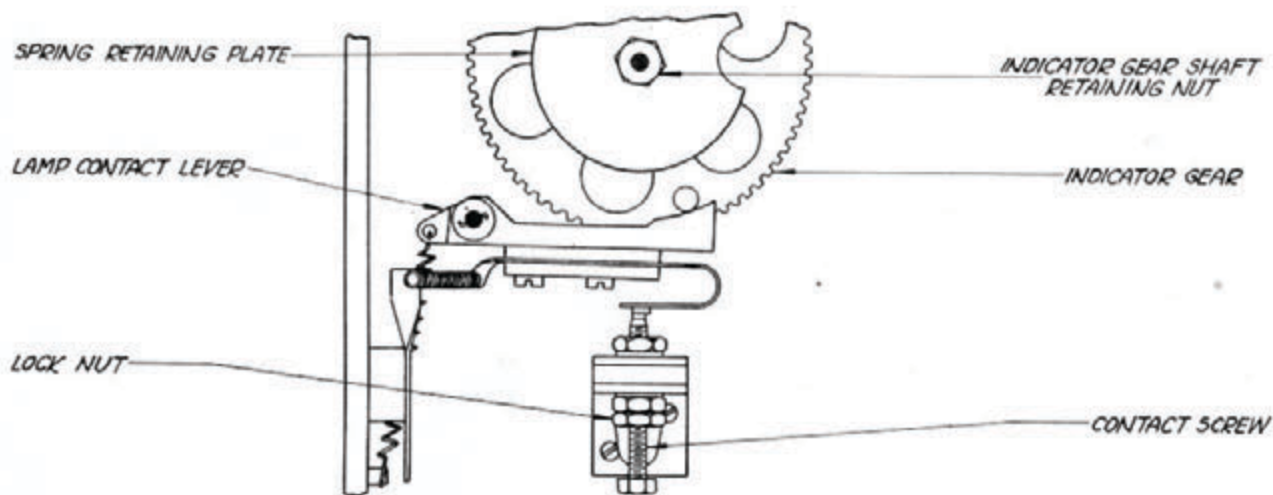


FIGURE 16

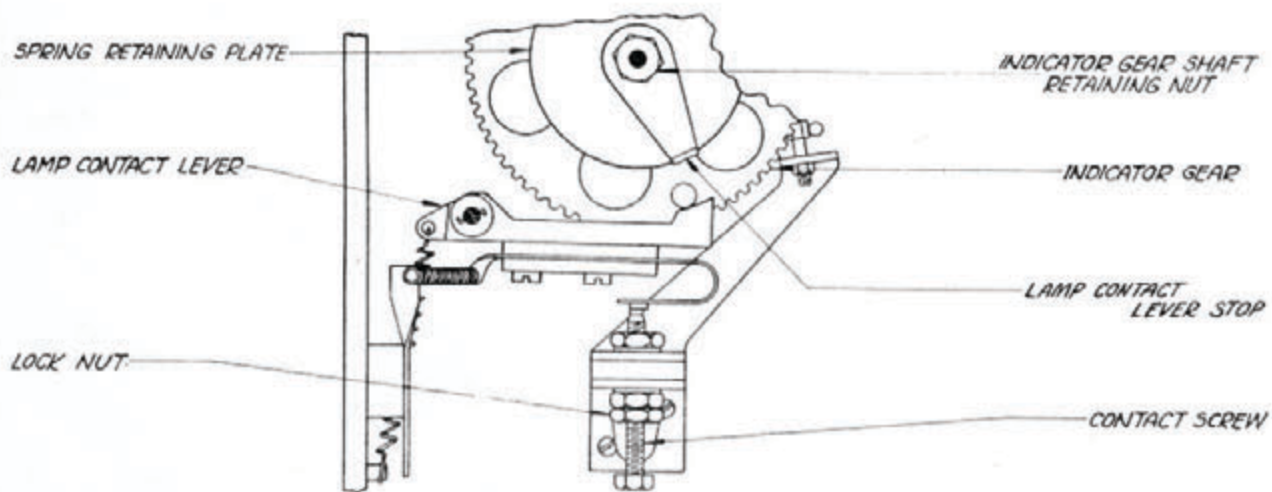


FIGURE 17

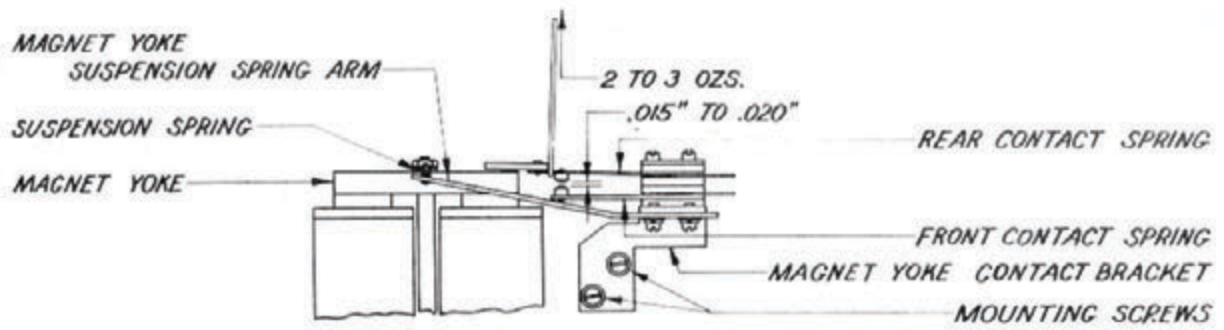


FIGURE 18

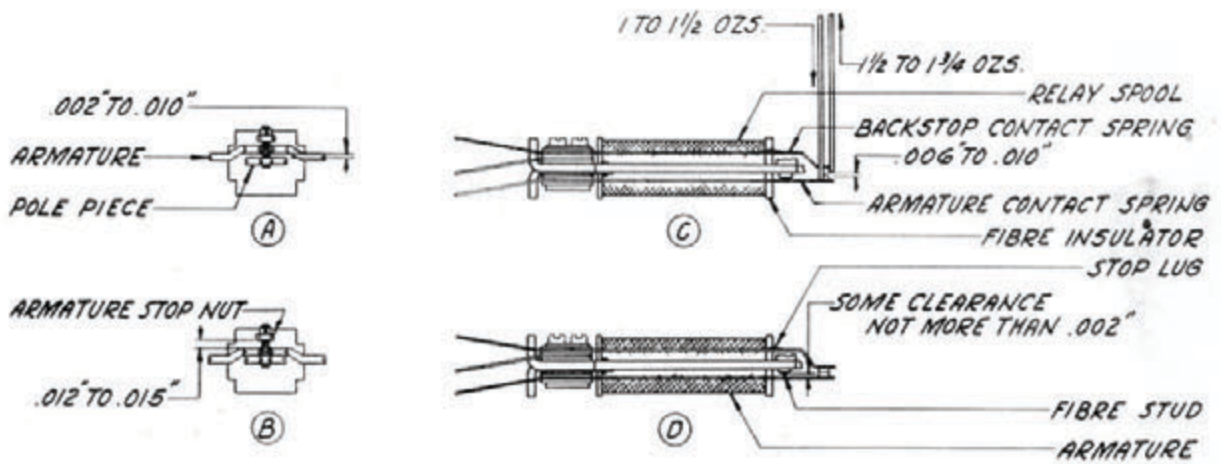
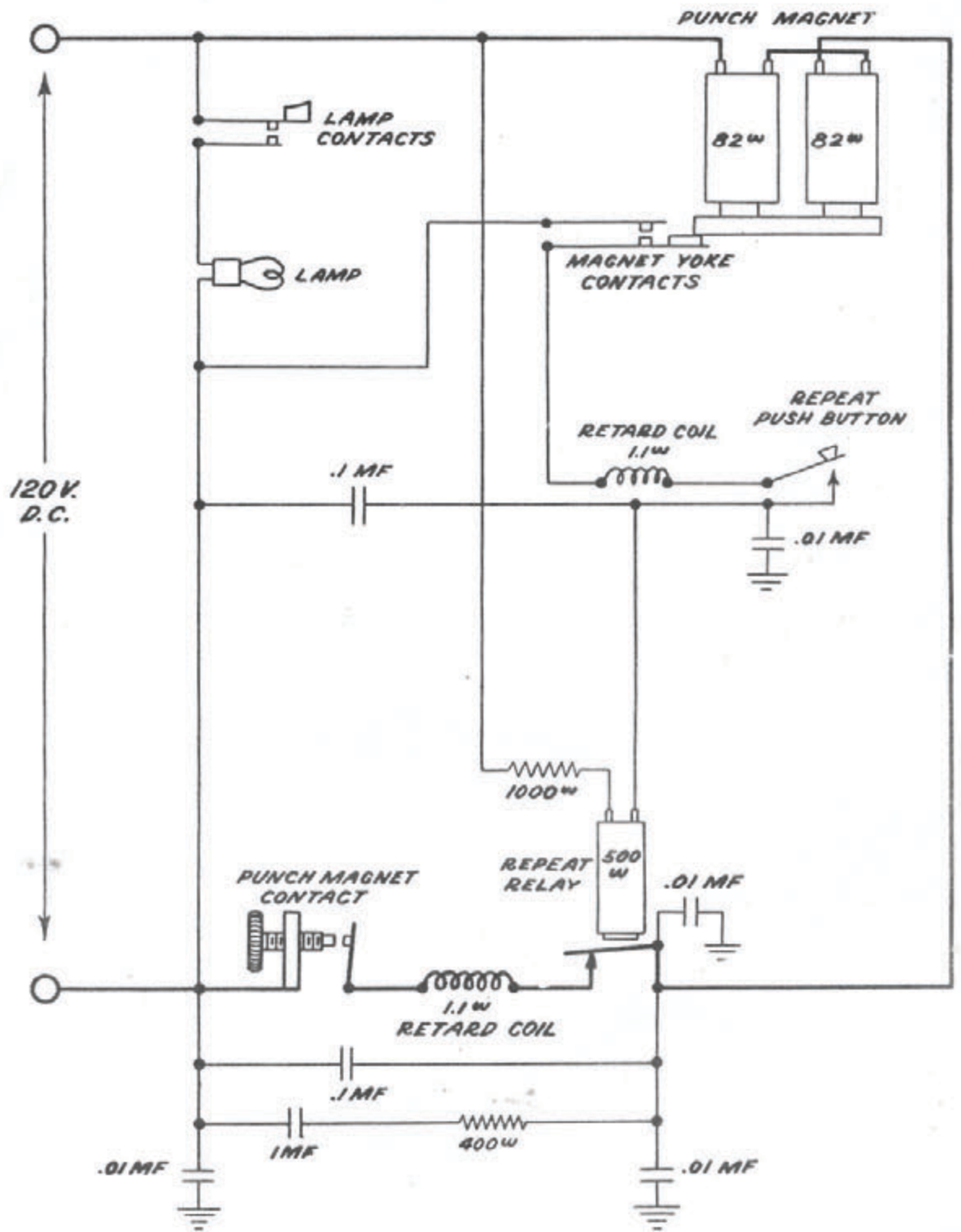


FIGURE 19



SCHEMATIC DIAGRAM

FIGURE 20

Bulletin No. 1093  
Issue 1  
March, 1941

# TELETYPE

PRINTING TELEGRAPH SYSTEMS

PARTS  
PERFORATOR

**TELETYPE**  
CORPORATION  
SUBSIDIARY OF  
*Western Electric Company*  
CHICAGO, U.S.A.

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CHANGES AND ADDITIONS TO BULLETIN NO. 1093, ISSUE 1  
PARTS - PERFORATOR

Page 1

The 33-14 screw used to mount the 122-380 tape tension lever should read "33-114 screw."

Page 3

The plunger rod illustrated between the two M-25 magnet coils may be ordered as "75789 plunger rod" and is a part of the 122-25 punch magnet bracket (assem.)

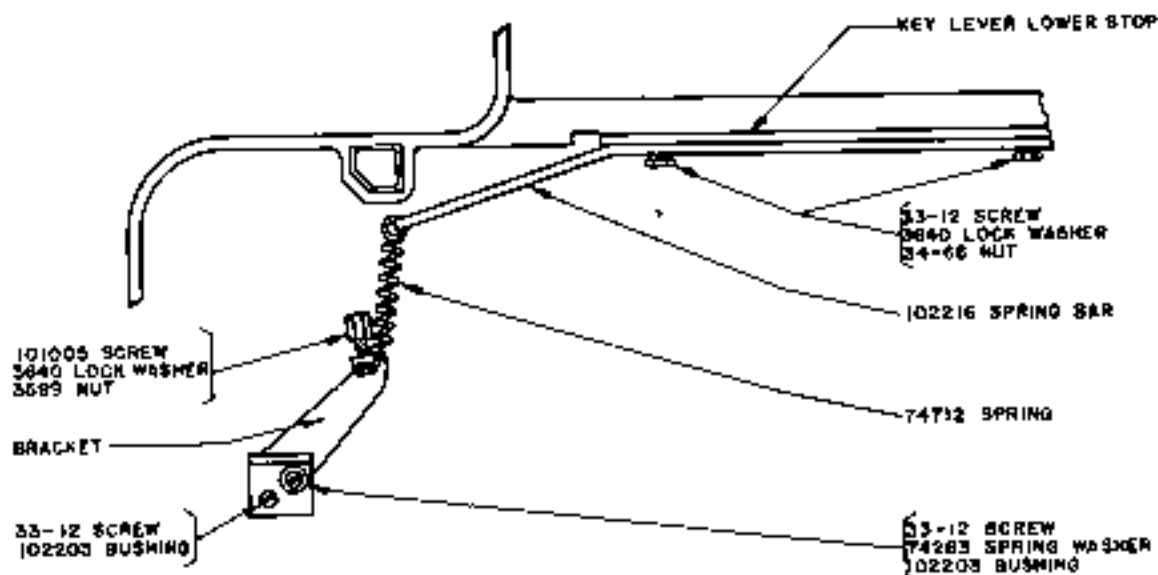
Page 6

The 35-86 spring for the 7103 pawl has been replaced by a 35-70 spring.

The 3598 nut used with the 101005 screw on the 99829 bracket should read "3599 nut."

The 103-102 screw-contact and 34-13 nut are not included in the 122-128 lamp contact bracket (assem.) as indicated by the bracket.

The design of the end-of-line indicating mechanism has been changed to provide a slight yield in the mounting of the 99829 bracket. The following figure shows the new parts introduced by this change:



Page 7

To improve operating margins, a 103965 relay support has been added. This support is mounted on top of the 99961 relay bracket and requires the use of the 1161 mounting screws instead of the 1176 screws formerly used to mount the 99961 relay bracket.

The 72570 strap used to mount the 101089 condenser has been replaced by a 104284 strap.

Page 9

The 103-102 screw-contact and 34-13 nut are not included in the 122-128 lamp contact bracket (assem.) as indicated by the bracket.

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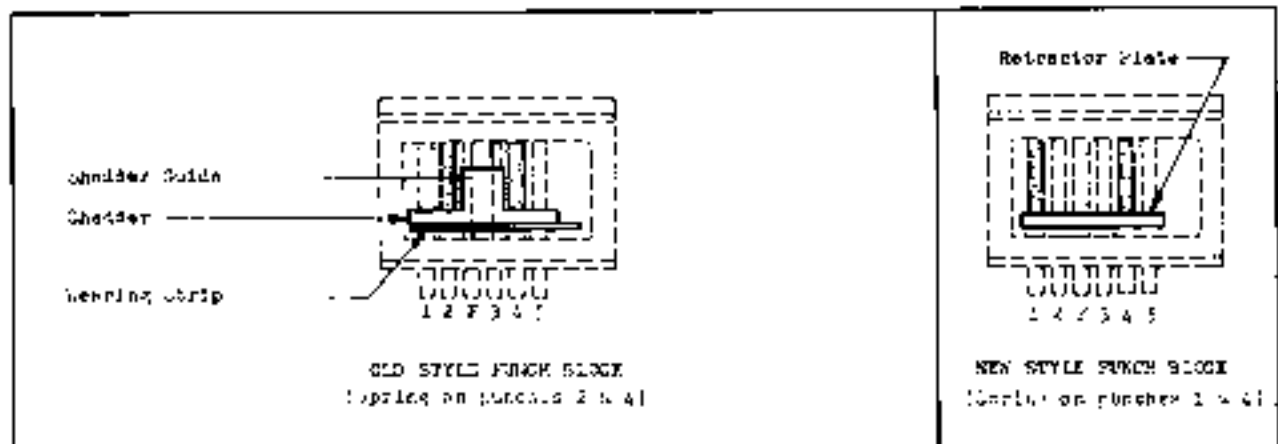
CHANGES AND ADDITIONS  
TO PARTS BULLETINS

1001	Issue 1	1067	Issue 2	1090	Issue 2
1012	Issue 2	1080	Issue 1	1093	Issue 1
1038	Issue 2	1082	Issue 2	1100	Issue 2
1052	Issue 1	1088	Issue 2	1117	Issue 2
1064	Issue 2	1089	Issue 1		

The punch block assemblies shown in the above bulletins have been redesigned and assigned new assembly numbers. Old style punch block assemblies are no longer furnished. On orders for old style blocks, new style assemblies which are fully interchangeable with the old style will be furnished.

The sketches below illustrate the difference between the old and new style assemblies, and it should be noted that the shedder and wearing strip are replaced by a retractor plate, and the shedder guides are not used. The shedder and wearing strip are no longer being furnished. When it is desired to replace a shedder or wearing strip, a retractor plate should be ordered instead.

The chart below may be used to determine the new style punch block assembly number which replaces an old style, and which retractor plate must be ordered to replace the old style shedder, and/or wearing strip.



Old Style Assembly Number	Apparatus Used On	Type of Punch Block			Shedder	Wearing Strip	New Style Assembly Number	Retractor Plate
		Number of Code Punch Holes	Type of Feed Hole	Grinding on Punches				
122-364	Perf. & Nontyp. Repert. 15 max.	5	Advanced	Cup Ground	122-367	122-368	112660	110902
122-575	Perf. & Nontyp. Repert. 15 max.	5	Straight	Cup Ground	122-367	122-574	111019	110901
77987	Perforator	5	Straight	Cup Ground	75121	77986	112642	110903
81510	Perforator	6	Advanced	Cup Ground	75121	75120	112643	110904
81792	Perf. Trans.	5	Straight	Cup Ground	75121	77986	111020	110901
85356	Nontyp. Repert.	5	Advanced	V Notch	75121	75120	112645	110904
86113	Nontyp. Repert.	5	Straight	V Notch	75121	77526	111021	110901
89504	Perf. Trans.	5	Straight	Cup Ground	75121	77986	111022	110901
91114	Perf. Trans.	5	Advanced	Cup Ground	75121	75120	112646	110902
94904	Perforator	7	Advanced	Cup Ground	94948	94950	112647	110905
95451	Typ. Repert.	5	Straight	Cup Ground	122-367	122-574	111023	110901
97472	Nontyp. Repert.	5	Advanced	V Notch	75121	75	112648	110902
101790	Typ. Repert.	5	Straight	Cup Ground	122-367	122-574	111024	110901
104573	Typ. Repert.	5	Advanced	Cup Ground	122-367	122-368	112649	110902

Teletype Corporation  
Chicago, Illinois, U.S.A.

EE-602  
Issue 1  
August, 1947

CHANGES AND ADDITIONS  
TO BULLETIN NO. 1012 (ISSUE 2)  
PARTS - PERFORATOR

Page 4

The old style 122-587 tension lever, 122-591 spring and 122-595 shaft, used on the 122-586 feed roll bracket assembly, are no longer manufactured. When it becomes necessary to replace any one of these three parts, one each of the parts marked "new style" should be ordered instead.

All other old style parts are still available for use with the old style assembly.

Printed in U.S.A.

CHANGES IN TELETYPE  
PART AND ASSEMBLY NUMBERS

In order to facilitate the use of automatic business machines in the conduct of its business, Teletype Corporation finds it necessary to eliminate all of its present part and assembly numbers containing dashes and/or letter prefixes. Such numbers have been replaced by others having 3 to 6 digits which may have a one-letter or a two-letter suffix.

The prefixes used with magnet, packing material, raw material such as wire in bulk, Teletype literature and wiring diagram numbers have been changed to suffixes, and in the case of bulletins and instruction manuals a suffix has been added to identify the items without reference to descriptions as shown in the following illustrations:

<u>Old Designation</u>	<u>New Designation</u>	<u>Description</u>
M121	121M	Magnet
PK1D718	10718PK	Carton
RW31571	31571RW	Wire
121	121B	Bulletin
ER121	121EZ	Correction Sheet
121	121MA	Instruction Manual
WD2186	2186WD	Wiring Diagram
S5037	5037S	Specification
S5333A	5333SA	Specification
S5333B	5333SB	Specification

All Teletype parts bulletins and price lists will eventually be changed to show the new as well as the old numbers for the convenience of Teletype Corporation customers.

When an item is ordered under an old number, the new number will be substituted for the old one and the old number will be shown immediately after the description of the items on all shipping papers and invoices.

Attached are two conversion lists of the active numbers involved; one with the old numbers and descriptions arranged numerically and the other with the new numbers arranged numerically. It is to be noted that some of the new numbers have already been used in Teletype parts catalogs.

Many numbers containing dashes cover parts considered obsolete and are not included in the attached lists. Occasionally one of these parts is reinstated, in which case the part will be shipped under the new number with the dash number shown immediately after the description. It is not intended to add such numbers to the correction sheet lists unless the part is to be commonly used.

OLD TO NEW NUMBER CORRELATION LIST

Old No.	New No.	Description	Old No.	New No.	Description	Old No.	New No.	Description
2-3	125100	Washer	33-88	125110	Screw	33-257	125193	Screw
4-4	125103	Stud	33-89	125111	Screw	33-264	125194	Screw
6-8	74879	Stud	33-98	125112	Screw	33-267	125182	Screw
6-11	125102	Stud	33-101	125113	Screw	33-270	87636	Screw
6-1	125103	Thumb Nut	33-108	125114	Screw	33-271	125195	Screw
6-2	125104	Screws	33-110	110134	Screw	33-272	125004	Screw
23-8	125105	Terminal	33-122	49054	Screw	33-274	125196	Screw
25-21	125106	Stud	33-124	125116	Screw	33-275	126250	Spring
26-15	125107	Wash	33-121	125117	Screw	33-276	125197	Screw
33-1	1157	Screw	33-123	125118	Screw	33-278	125199	Screw
33-2	125108	Screw	33-130	125119	Screw	33-280	125005	Screw
33-3	1158	Screw	33-132	125001	Screw	33-282	125000	Screw
33-4	1263	Screw	33-133	125150	Screw	33-283	125001	Screw
33-5	1159	Screw	33-141	125151	Screw	33-285	125002	Screw
33-6	1160	Screw	33-143	125152	Screw	33-289	125003	Screw
33-7	1161	Screw	33-151	125153	Screw	33-290	1299	Screw
33-8	125109	Screw	33-153	125154	Screw	33-296	125205	Screw
33-9	125110	Screw	33-156	1162	Screw	33-311	110762	Screw
33-10	1162	Screw	33-157	1174	Screw	33-313	125006	Screw
33-11	1163	Screw	33-158	125155	Screw	33-314	112622	Screw
33-12	125111	Screw	33-162	125156	Screw	33-333	112623	Screw
33-13	5720	Screw	33-163	125157	Screw	33-336	125206	Screw
33-14	1164	Screw	33-167	125158	Screw	33-337	112624	Screw
33-15	125112	Screw	33-168	125159	Screw	33-339	125207	Screw
33-16	1165	Screw	33-169	1175	Screw	33-340	125208	Screw
33-17	1166	Screw	33-170	112621	Screw	33-341	125209	Screw
33-18	125113	Screw	33-175	125160	Screw	33-346	125211	Screw
33-19	1167	Screw	33-176	125161	Screw	33-346	125212	Screw
33-21	112620	Screw	33-179	125002	Screw	33-347	112625	Screw
33-22	125114	Screw	33-180	125162	Screw	33-348	125213	Screw
33-23	125115	Screw	33-185	125163	Screw	33-349	125214	Screw
33-29	125116	Screw	33-193	125164	Screw	33-350	125215	Screw
33-32	125117	Screw	33-194	125165	Screw	33-356	125216	Screw
33-35	1168	Screw	33-195	1176	Screw	33-360	1181	Screw
33-36	125118	Screw	33-196	125166	Screw	33-362	125217	Screw
33-37	1169	Screw	33-197	125167	Screw	34-1	125218	Nut
33-38	125119	Screw	33-198	125168	Screw	34-2	3575	Nut
33-39	1222	Screw	33-202	125169	Screw	34-3	125219	Nut
33-41	125120	Screw	33-206	125003	Screw	34-4	112626	Nut
33-42	125121	Screw	33-207	125170	Screw	34-5	5475	Nut
33-43	125122	Screw	33-208	125171	Screw	34-6	3577	Nut
33-45	125123	Screw	33-209	125172	Screw	34-7	70373	Nut
33-49	1170	Screw	33-210	125173	Screw	34-8	3598	Nut
33-50	125124	Screw	33-212	125174	Screw	34-9	3599	Nut
33-51	125125	Screw	33-212	125175	Screw	34-10	125220	Nut
33-53	1171	Screw	33-213	125176	Screw	34-11	112627	Nut
33-54	1172	Screw	33-217	125177	Screw	34-12	55257	Nut
33-57	125126	Screw	33-221	125178	Screw	34-13	125221	Nut
33-58	125127	Screw	33-225	125179	Screw	34-14	5815	Nut
33-59	125128	Screw	33-227	125180	Screw	34-16	125222	Nut
33-60	125129	Screw	33-228	125181	Screw	34-17	125223	Nut
33-63	125130	Screw	33-234	1177	Screw	34-28	125224	Nut
33-64	1173	Screw	33-235	125183	Screw	34-25	3600	Nut
33-65	125131	Screw	33-236	125184	Screw	34-27	125225	Nut
33-69	1223	Screw	33-237	1178	Screw	34-28	3602	Nut
33-70	125132	Screw	33-238	1179	Screw	34-29	3603	Nut
33-72	125133	Screw	33-240	950	Screw	34-35	125226	Nut
33-73	125134	Screw	33-241	105	Screw	34-39	125227	Nut
33-74	125000	Screw	33-244	106	Screw	34-41	125228	Nut
33-75	125135	Screw	33-245	107	Bolt	34-48	125229	Nut
33-78	110741	Screw	33-250	125188	Screw	34-50	3604	Nut
33-79	125136	Screw	33-252	125189	Screw	34-51	1034	Nut
33-82	125137	Screw	33-253	125190	Screw	34-53	3605	Nut
33-83	125138	Screw	33-254	1 1/2	Screw	34-54	125230	Nut
33-86	125139	Screw	33-255	1 9/2	Screw	34-55	3606	Nut

Old No.	New No.	Description	Old No.	New No.	Description	Old No.	New No.	Description
34-56	110435	Nut	36-38	125275	Pin	100-77	125327	Screw
34-58	125231	Nut	36-39	125276	Pin	100-80	125328	Bushing
34-59	125009	Nut	36-45	125277	Pin	100-81	125329	Bushing
34-60	125232	Nut	36-51	125278	Pin	100-84	125330	Screw
34-61	125233	Nut	36-56	3611	Pin	100-85	3621	Terminal
34-62	125234	Nut	36-72	125279	Pin	100-88	9574	Screw
34-63	2723	Nut	36-73	125280	Pin	100-92	125331	Bushing
34-64	112628	Nut	36-80	125281	Pin	100-93	125332	Terminal
34-66	125235	Nut	36-85	125282	Pin	100-96	110461	Shim
35-1	112629	Spring	36-103	125283	Pin	100-97	3623	Washer
35-2	112630	Spring	36-104	125284	Pin	100-100	125333	Pole Piece
35-4	112631	Spring	36-105	125285	Rivet	100-101	125334	Pole Piece
35-13	125236	Spring	36-106	125286	Pin	100-106	125335	Spring
35-16	125237	Spring	36-109	125287	Pin	100-108	3624	Washer
35-23	125238	Spring	36-110	125288	Pin	100-109	125336	Spring Assoc.
35-24	125239	Spring	36-113	125289	Pin	100-110	125337	Spring
35-26	125240	Spring	36-114	125290	Pin	100-111	125338	Spring
35-27	125241	Spring	36-120	125291	Pin	100-112	125339	Terminal
35-28	125242	Spring	36-124	125291	Pin	100-113	125340	Eyelet
35-33	125242	Spring	36-131	125092	Drum	100-140	125341	bushing
35-34	125243	Spring	36-132	125292	Pin	100-145	125343	Strip
35-40	125244	Spring	36-134	125293	Pin	100-148	125344	Terminal
35-42	110436	Spring	36-136	125294	Pin	100-151	125345	Spool
35-43	125245	Spring	36-137	3614	Pin	100-152	125346	Screw
35-47	125246	Spring	36-139	125295	Pin	100-153	125347	Screw
35-48	125247	Spring	36-146	110439	Pin	100-159	125348	Terminal
35-52	4702	Spring	36-147	125296	Pin	100-167	125349	Terminal
35-53	125248	Spring	36-150	125297	Pin	100-173	125350	Contact Point
35-54	112633	Spring	36-151	125298	Pin	100-179	125351	Terminal Block
35-58	3600	Spring	36-152	3615	Pin	100-179	125352	Terminal
35-66	125249	Spring	36-153	110440	Pin	100-187	125353	Terminal
35-68	125250	Spring	36-154	125299	Pin	100-188	125354	Terminal Block
35-69	125251	Spring	36-164	125300	Pin	100-217	125355	Relay Spool
35-70	110437	Spring	36-165	125301	Pin	100-218	125356	Terminal
35-71	125252	Spring	36-170	125302	Pin	100-219	125357	Terminal
35-72	125253	Spring	36-172	125303	Pin	100-220	125358	Terminal
35-78	125254	Spring	36-173	3616	Pin	100-227	125359	Washer
35-80	125255	Spring	36-174	125304	Rivet	100-228	125360	Washer
35-84	125256	Spring	43-20	125306	Stop	100-234	125362	Washer
35-85	125257	Spring	43-22	71047	Washer	100-235	125362	Washer
35-86	4703	Spring	46-3	125307	Washer	100-246	125363	Screw
35-87	4708	Spring	47-2	125308	Buffer Assoc.	100-253	125364	Spring
35-88	110438	Spring	47-4	125309	Buffer	100-254	125365	Spring
35-89	125258	Spring	47-5	125310	Screw	100-255	125366	Bushing
35-99	125258	Spring	52-6	125099	Washer	100-256	125367	Washer
35-101	125259	Spring	52-5	125311	Buffer	100-257	125368	Washer
35-106	125260	Spring	54-3	125312	Washer	103-27	125011	Washer
35-111	125261	Spring	61-7	3618	Insulator	103-75	125369	Realistor
35-116	125262	Spring	61-9	125313	Washer	103-77	125370	Realistor
35-123	125263	Spring	61-10	125314	Screw	103-102	125371	Screw
35-124	125264	Spring	61-12	125315	Washer	103-151	125372	Pinion
35-125	125265	Spring	61-21	125316	Screw	112-7	125373	Screw
35-126	3610	Spring	61-24	125010	Washer	112-8	125374	Screw
35-129	3611	Spring	61-24	125317	Insulator	112-64	125375	Screw
35-131	125266	Spring	80-1	125318	Tube	120-20	125376	Washer
35-132	125267	Spring	80-2	125319	Terminal	122-5	125379	Post
35-133	125268	Spring	80-3	125320	Washer	122-11	125380	Coax
35-134	4705	Spring	80-4	125321	Pole Piece	122-12	125381	Stud
35-137	112633	Spring	80-5	125322	Magnet Core	122-18	125382	Cable
35-140	112636	Spring	100-70	125323	Magnet Core	S-122-19	125383	Bracket
36-19	125270	Pin	100-71	125324	Magnet Core	S-122-20	125384	Bracket
36-23	125271	Pin	100-72	125325	Terminal	S-122-21	125385	Bracket
36-24	125272	Pin	100-73	125326	Washer	S-122-22	125386	Bracket
36-28	125273	Pin	100-74	5816	Washer	S-122-23	125387	Bracket
36-35	125274	Pin	100-75	3620	Washer	S-122-24	125388	Bracket

Old Qty.	New Qty.	Description	Old Qty.	New Qty.	Description	Old Qty.	New Qty.	Description
122-25	125387	Bracket	122-113	125450	Foot	122-381	125505	Lever
122-26	125390	Washer	3-122-134	125451	Bell Crank	122-382	125506	Ball
122-27	125392	Shaft	122-135	125452	Washer	122-383	125507	Key Lever
122-28	125392	Stop	5-122-136	125453	Bracket	122-384	112640	Die Block
122-29	125393	Pin	122-137	125454	Gear Assem.	122-386	125508	Ball Assem.
122-35	125394	Plate	122-139	125455	Pin	122-387	125509	Cover
122-36	125395	Pin	122-140	125456	Stud	122-388	125510	Mings
3-122-37	125396	Guide	122-143	125457	Connector	122-389	125511	Panel Assem.
5-122-38	125397	Bar	122-146	125458	Bearing	122-390	125512	Contact Assem.
3-122-39	3625	Shaft	122-147	125459	Bushing	122-392	12550980	Cover
5-122-40	125398	Bracket	M-122-152	125798	Key Assem.	122-396	125514	Hammer Assem.
122-41	125399	Roller	122-192	125461	Cap	122-397	125515	Mings
122-42	125400	Gear	122-193	125462	Washer	122-399	125516	"Blank" Comb
122-43	125401	Gear	122-194	125463	Disk	122-400	125517	Comb
122-46	125402	Foot	122-195	125464	Disk	122-401	125518	Comb
122-48	125402	Socket	122-196	125465	Retail	122-402	125519	Comb
122-49	125403	Fitting	5-122-234	3627	Bar	122-403	125520	Comb
122-50	125404	Lamp	122-241	125466	Roller	122-404	125521	Comb
122-51	125405	Bell Crank	122-242	125467	Lever Assem.	122-405	125522	Comb
122-52	125406	Bell Crank	122-244	125468	Foot	122-406	125523	Comb
122-53	125407	Bell Crank	122-245	125469	Foot	122-407	125524	Comb
122-54	125408	Bell Crank	122-246	125470	Foot	122-408	125525	Comb
122-55	125409	Bell Crank	122-247	125471	Disk Assem.	122-409	125526	Comb
122-56	125410	Bushings	122-249	125472	Stud	122-410	125527	Comb
122-57	125411	Bushings	122-250	125473	Spool Assem.	122-411	125528	Comb
122-58	125412	Stud	122-251	125474	Tube	122-412	125529	Comb
122-60	125413	Ratchet	122-252	125475	Terminal End	122-413	125530	Comb
122-61	125414	Foot	122-251	125476	Magnet Spool	122-414	125531	Comb
122-62	125415	Pin	122-256	125477	Cord	122-415	125532	Comb
122-63	125416	Foot	122-257	125478	Plunger	122-416	125533	Comb
122-65	125417	Stud	122-259	125479	Disk	122-417	125534	Comb
122-67	125418	Foot	122-260	125480	Hab	122-418	125535	Comb
122-68	3628	Foot	122-275	125481	Bracket	122-419	125536	Comb
3-122-69	125419	Stop	122-276	125482	Plate	122-420	125537	Comb
122-70	125420	Guide	122-290	125483	Terminal End	122-421	125538	Comb
122-84	125421	Pin	122-337	125484	Washer	122-422	125539	Comb
122-86	125422	Pin	122-345	11995980	Container Assem.	122-423	125540	Comb
122-88	125423	Solenoid Assem.	122-346	125484	Plate	122-424	125541	Comb
122-89	125424	Bracket	122-347	125485	Guard	122-425	125542	Comb
122-94	125425	Terminal Board	122-348	125487	Bracket	122-426	125543	Comb
122-95	125426	Insulator	122-349	125486	Pivot	122-427	125544	Comb
122-97	125427	Bushing	122-350	125487	Type Reel	122-428	125545	Comb
122-100	125428	Plate	122-352	8052080	Cover	122-429	125546	Comb
122-101	125429	Head	122-354	126248	Shelf	122-430	125547	Comb
122-102	125430	Foot	122-355	126249	Bracket	122-431	125548	Paper Keypop
122-104	125431	Bracket Assem.	122-356	8052380	Cover	122-432	125549	Paper Keypop
122-106	125432	Bracket Assem.	122-357	125488	Spacer	122-433	125550	Paper Keypop
122-107	125433	Bracket	122-358	125489	Bracket	122-434	125551	Paper Keypop
122-108	125434	Bushing	122-359	125490	Ratchet	122-435	125552	Paper Keypop
122-111	125435	Screw	122-363	125491	Pin	122-436	125553	Stud
122-112	125436	Strip	122-364	125492	Bracket	122-437	125554	Spring
122-113	9975	Screw	122-365	125493	Punch Pin	122-438	125555	Head
122-115	125437	Contact Point	122-366	125496	Punch Pin	122-439	125556	Spring Eye
122-116	125438	Lever Assem.	122-367	110902	Plate	122-444	11996080	Plate
122-117	125439	Lever	122-368			122-445	1199597	Guard Assem.
122-118	125440	Terminal	122-369	125495	Guide Plate	122-447	125558	Spring
122-119	125441	Contact Assem.	122-370	125496	Guide Plate	122-450	125559	Keys
122-120	125442	Spring	122-371	125497	Die Plate	122-451	125560	Lever Assem.
122-121	125443	Contact	122-373	125498	Punch Hammer	122-452	125561	Lever Assem.
122-124	125444	Spring	122-374	125499	Punch Bar	122-453	125562	Cable Assem.
122-126	125445	Insulator	122-375	125500	Punch Bar	122-454	125563	Cable
122-127	125446	Stud	122-376	125501	Punch Bar	122-457	125564	Loop Blank
122-128	125447	Bracket Assem.	122-377	125502	Punch Bar	122-459	125565	Paper Keypop
122-129	125448	Bracket	122-378	125503	Punch Bar	122-460	125566	Paper Keypop
3-122-130	125449	Lever Assem.	122-380	125504	Lever	122-461	125567	Paper Keypop



Old No.	New No.	Description	Old No.	New No.	Description	Old No.	New No.	Description
122-469	125568	Paper Keytop	122-567	125631	Hammer Assm.	122-708	125693	Paper Keytop
122-469	125569	Paper Keytop	122-570	125632	Hammer Assm.	122-709	125694	Paper Keytop
122-464	125570	Paper Keytop	122-571	125633	Guide Plate	122-710	125695	Paper Keytop
122-465	125571	Paper Keytop	122-572	125634	Guide Plate	122-7	3628	Washer
122-466	125572	Paper Keytop	122-573	125635	Use Plate	122-8	71644	Washer
122-467	125573	Paper Keytop	122-574	110901	Plate	122-30	3629	Collar
122-468	125574	Paper Keytop	122-575	111019	Block	122-36	3630	Washer
122-469	125575	Paper Keytop	122-576	125636	Plate Assm.	122-37	125696	Foot
122-470	125576	Paper Keytop	122-577	125637	Matchset Assm.	122-35	125697	Contact Pin
122-471	125577	Paper Keytop	122-580	125638	Paper Keytop	122-323	125698	Roller
122-472	125578	Paper Keytop	122-581	125639	Paper Keytop	122-135	125699	Pin
122-473	125579	Paper Keytop	122-582	125640	Paper Keytop	122-136	125700	Hub
122-474	125580	Paper Keytop	122-583	125641	Paper Keytop	122-138	125701	Hub
122-475	125581	Paper Keytop	122-584	125642	Bracket Assm.	122-139	125702	Terminal
122-476	125582	Paper Keytop	122-589	125643	Washer	122-166	3633	Washer
122-477	125583	Paper Keytop	122-590	125644	Washer	122-165	3634	Washer
122-478	125584	Paper Keytop	122-592	125645	Guide	122-168	3635	Washer
122-479	125585	Paper Keytop	122-593	125646	Plate	122-167	3636	Washer
122-480	125586	Paper Keytop	122-594	125647	Plate	122-194	3637	Ball Bearing
122-481	125587	Paper Keytop	122-596	125648	Key Lever	122-222	125703	Washer
122-482	125588	Paper Keytop	122-597	125649	Key Lever	122-308	125704	Terminal
122-483	125589	Paper Keytop	122-598	125650	Key Lever	122-314	125705	Rivet
122-484	125590	Paper Keytop	122-599	125651	Key Lever	122-342	125706	Oil Cup
122-485	125591	Paper Keytop	122-600	125652	Key Lever	122-343	125707	Wick
122-487	125592	Paper Keytop	122-601	125653	Key Lever	122-357	125708	Terminal
122-490	125593	Guard	122-602	125654	Key Lever	122-362	125709	Hinge Butt
122-498	125594	Hinge	122-603	125655	Key Lever	122-364	125710	Ring - Blank
122-511	125595	Guide Assm.	122-604	125656	Key Lever	122-422	125711	Disk
122-526	125596	Roller	122-605	125657	Key Lever	122-447	125712	Washer
122-528	125597	Key Lever Assm.	122-606	125658	Key Lever	122-4	3638	Washer
122-529	125598	Key Lever Assm.	122-607	125659	Key Lever	122-23	125713	Clamp
122-530	125599	Key Lever Assm.	122-608	125660	Key Lever	122-25	125714	Card Holder
122-531	125600	Key Lever Assm.	122-609	125661	Key Lever	122-161	125715	Washer
122-532	125601	Key Lever Assm.	122-610	125662	Key Lever	122-169	125716	Pin
122-534	125602	Key Lever Assm.	122-611	125663	Key Lever	122-176	125717	Switch Box
122-535	125603	Key Lever Assm.	122-612	125664	Key Lever	122-184	125718	Pin Box
122-536	125604	Key Lever Assm.	122-613	125665	Key Lever	122-196	125719	Washer
122-537	125605	Key Lever Assm.	122-614	125666	Key Lever	122-197	125720	Washer
122-538	125606	Key Lever Assm.	122-615	125667	Key Lever	122-198	125721	Nut
122-539	125607	Key Lever Assm.	122-616	125668	Key Lever	122-208	125722	Nipple
122-540	125608	Key Lever Assm.	122-617	125669	Key Lever	122-209	125723	Nut
122-541	125609	Key Lever Assm.	122-618	125670	Key Lever	122-211	125724	Clamp
122-542	125610	Key Lever Assm.	122-619	125671	Key Lever	122-217	125725	Key Lever
122-543	125611	Key Lever Assm.	122-620	125672	Key Lever	122-221	125726	Key Lever
122-544	125612	Key Lever Assm.	122-621	125673	Key Lever	122-237	125727	Pin
122-545	125613	Key Lever Assm.	122-622	125674	Key Lever	122-238	125728	Pin
122-546	125614	Key Lever Assm.	122-623	125675	Key Lever	122-239	125729	Pin
122-547	125615	Key Lever Assm.	122-624	125676	Key Lever	122-240	125730	Key
122-548	125616	Key Lever Assm.	122-625	125677	Key Lever	122-252	125731	Resistor
122-549	125617	Key Lever Assm.	122-626	125678	Key Lever	122-269	125732	Handle
122-550	125618	Key Lever Assm.	122-627	125679	Key Lever	122-270	125733	Hinge
122-551	125619	Key Lever Assm.	122-628	125680	Key Lever	122-276	125734	Switch Box
122-552	125620	Key Lever Assm.	122-629	125681	Key Lever	122-11	125735	Washer
122-553	125621	Key Lever Assm.	122-630	125682	Comb	122-126	125736	Pinion
122-554	125622	Key Lever Assm.	122-631	125683	Washer	122-64	125737	Cam
122-555	125623	Key Lever Assm.	122-632	125684	Lever Assm.	122-92	125738	Washer
122-556	125624	Key Lever Assm.	122-633	125685	Blud	122-93	125739	Washer
122-557	125625	Key Lever Assm.	122-634	125686	Lever Assm.	122-95	125740	Armature
122-558	125626	Key Lever Assm.	122-635	125687	Washer	122-107	125741	Screw
122-559	125627	Key Lever Assm.	122-636	125688	Bracket Assm.	122-108	125742	Brush Holder
122-560	125628	Guard	122-637	125689	Paper Keytop	122-111	125743	Coil
122-561	125629	Guard Clip	122-638	125690	Paper Keytop	122-114	125744	Washer
122-562	125630	Guard Clip	122-639	125691	Paper Keytop	122-118	125745	Washer
122-563	125631	Guard Clip	122-640	125692	Paper Keytop	122-123	125746	Washer
122-564	125632	Guard	122-641	125693	Paper Keytop			

Old No.	New No.	Description	Old No.	New No.	Description	Old No.	New No.	Description
126-126	125740	Bush	200-1132	125792	Insulator	300-177	125854	Terminal
126-127	125741	Spring	200-1134	125793	Pin	300-178	125855	Terminal
138-1	125742	Tuning Fork	200-1135	9576	Contact Spring	300-179	125856	Terminal Block
138-2	125743	Tuning Fork	200-1136	125794	Spring Blank	300-180	125857	Terminal Block
138-3	125744	Tuning Fork	200-1137	9577	Spring	300-181	125858	Feed Pawl
138-4	125745	Tuning Fork	200-1138	125795	Spring Blank	300-200	125859	Bracket
138-5	114756	Tuning Fork	200-1139	3647	Insulator	300-201	125860	End Bracket
138-6	125747	Tuning Fork	200-1175	125796	Spring	300-301	5556	Top Plate
138-7	125748	Tuning Fork	200-1176	125797	Spring	300-302	125862	Feed Wheel
138-11	125749	Tuning Fork	200-1177	126251	Insulator	300-303	125862	Bearing
138-20	125751	Tuning Fork	200-1178	125799	Spring	300-304	125863	Bracket
138-22	110442	Screw Driver	200-1179	125800	Shaft	300-306	125864	Plate
138-23	125752	Wrench	200-1365	125801	Valve	300-307	125865	Plate
138-24	125753	Wrench	200-1348	125802	Washer	300-308	125866	Strip
138-25	125754	Wrench	200-1703	125803	Hub	300-312	125867	Bracket
138-26	125755	Wrench	200-2002	125804	Strip	300-314	125868	Detent Assm.
138-27	125756	Wrench	200-2210	125805	Foot	300-315	125869	Detent Lever
138-28	125757	Wrench	200-2212	3649	Washer	300-316	125870	Detent Roller
138-30	125758	File	200-2217	125806	Foot	300-319	125871	Bracket
138-32	125759	Wrench	200-2800	125807	Spindle	300-320	125872	Shaft
138-33	125760	Wrench	200-2802	125808	Pin	300-322	125873	Latch
138-34	125761	Wrench	300-3	125809	Cable	300-400	125874	End Bracket
138-35	125762	Wrench	300-303	125810	Armature	300-501	125875	Base
138-36	125763	Wrench	300-104	125811	Armature	300-502	125876	Switch
138-38	125764	Screw Driver Blade	300-105	125813	Bearing	300-503	125877	Strip
138-43	126242	Gauge	300-106	125814	Guide	300-504	125878	Terminal
138-44	126243	Gauge	300-207	125815	Contact Assm.	300-505	4706	Washer
138-49	126244	Gauge	300-108	125816	Mounting Bar	300-506	4707	Washer
138-52	125765	Wrench	300-109	125817	Mounting Bar	300-507	125879	Base
138-55	110443	Scale	300-110	125818	Insulator	300-508	125880	Armature
138-58	110446	Scale	300-111	125819	Plate	300-509	125881	Washer
138-67	125766	Handle	300-113	125820	Disk	300-510	125882	Terminal
138-68	125767	Shank	300-114	125821	Lever Blank	300-511	125883	Armature
138-69	125768	Shank	300-115	125822	Lever #1	300-512	125884	Spring
138-74	125769	Shank	300-116	125823	Lever #2	300-513	125885	Armature Handle
138-100	88993	Burnisher	300-117	125824	Lever #3	300-515	125886	Terminal
138-119	125771	Handle	300-118	125825	Lever #4	300-516	125887	Base
138-120	125772	Shank	300-119	125826	Lever #5	300-517	125888	Deceleration
138-122	125773	Handle	300-120	125827	Lever	300-518	125889	Base
138-123	125774	Shank	300-121	125828	Shaft	300-519	125890	Armature
138-125	126245	Gauge	300-128	125829	Lever	300-601	125891	Bracket
138-126	126246	Gauge	300-130	125830	Armature	300-602	125892	Shaft
138-127	125775	Wrench	300-131	125831	Cont. Spring	300-603	125893	Shaft
138-128	125776	Wrench	300-132	125832	Cont. Spring	300-604	125894	Lever
138-129	125777	Wrench	300-133	125833	Lever Guide	300-605	125895	Bracket
138-130	125778	Shank	300-138	125834	Spool	300-606	125896	Shaft
138-133	125779	Wrench	300-139	125935	Tube	300-607	125897	Bracket
138-134	125780	Handle	300-140	125836	Magnet Core	300-608	125898	Pawl
138-135	125781	Shank	300-142	125837	Magnet Fork	300-609	125899	Foot
138-136	125782	Wrench Grip	300-143	125838	Plunger	300-700	125900	Pawl
138-137	110445	Tool	300-244	125839	Bracket	300-701	125557	Pin
138-139	125783	Stone	300-165	125840	Rod	300-702	125901	Stud
138-141	116758	Tuning Fork	300-146	125841	Lever	400-3	125902	Rod
200-20	3639	Washer	300-147	125842	Bottom	400-3	125903	Brush
200-113	125785	Spring	300-150	125843	Plate	400-6	125904	Lamp
200-157	125786	Spring	300-152	125844	Adj. Lever	400-102	125905	Strip
200-159	125787	Bottom	300-153	125845	Yoke	400-203	125906	Gear
200-148	125788	Foot	300-154	125846	Cont. Pulse	400-206	125907	Washer
200-153	3640	Washer	300-155	125847	Plate	400-207	125908	Pinion
200-214	125789	Shim	300-170	125848	Cont. Lever	400-209	125909	Shaft
200-704	3642	Washer	300-171	125849	Cont. Lever	400-210	125910	Shaft
200-705	125790	Bushing	300-172	125850	Cont. Lever	400-211	125911	Wheel
200-1028	125791	Washer	300-173	125851	Cont. Lever	400-212	125912	Segment Ring
200-1031	6093	Washer	300-174	125852	Cont. Lever	400-215	125913	Collector Ring
200-1032	3646	Washer	300-175	125853	Cont. Lever	400-218	125914	Terminal

Old No.	New No.	Description	Old No.	New No.	Description	Old No.	New No.	Description
400-221	125915	Disk	700-68	73302	Washer	55083-12	126107	"T" Bar
400-222	125916	Range Scale	700-71	3650	Washer	55083-13	126108	"T" Bar
400-302	125917	Bushing	700-75	125750	Screw	55083-14	126109	"T" Bar
400-402	125918	Bushing	700-76	125970	Terminal	55083-15	126110	"T" Bar
400-509	125942	Sleeve	1000-203	125923	Washer	55083-16	126111	"T" Bar
400-510	125930	Shaft	1000-252	110446	Nut	55083-17	126112	"T" Bar
400-513	125919	Washer	W-1098	70793	Spacer	55083-18	126113	"T" Bar
400-519	125920	Sleeve	W-1238	126234	Pin	55083-20	126114	"T" Bar
400-801	125921	Gear	W-1241	126235	Collar	55083-21	126115	"T" Bar
400-1002	125922	Decalommnia	W-1958	71681	Spool	55084-A2	126156	Bar
400-1104	125924	Lever	W-2328	72669	Clip	55084-A4	126157	Bar
500-4	125925	Switch	W-2657	126236	Spring	55084-A6	126158	Bar
500-6	125926	Connector	W-6095	84990	Screw	55084-A8	126159	Bar
500-7	125927	Locknut	W-6104	126237	Nut	55084-A10	126160	Bar
500-19	125928	Washer	W-9277	126238	Handle	55084-A12	126161	Bar
500-80	125929	Resistor	W-9278	126239	Journal	55084-A14	126162	Bar
500-96	125930	Washer	W-9279-A	126240	Crank	55084-A16	126163	Bar
500-99	125931	Switch	W-9337-F	89883	Nut	55084-A18	126164	Bar
500-104	125932	Spring	W-9470	86343	Screw	55084-A20	126165	Bar
500-105	125933	Plate	W-9542	74878	Paper Drag	55084-B1	126166	Bar
500-312	125934	Spring	W-10074	110743	Washer	55084-B3	126167	Bar
500-303	125935	Spring	W-10076	3646	Washer	55084-B5	126168	Bar
500-308	125936	Pin	W-10077	45835	Washer	55084-B7	126169	Bar
500-309	125937	Pin	W-10080	3640	Washer	55084-B9	126170	Bar
500-310	125938	Chain	W-10082	4814	Washer	55084-B11	126171	Bar
500-311	125939	Pin "3" Hook	W-10083	3639	Washer	55084-B23	126172	Bar
500-403	125940	Block	W-10086	126241	Washer	55084-B15	126173	Bar
500-404	125941	Socket	W-10088	70071	Washer	55084-B17	126174	Bar
500-406	125942	Flange	W-10090	70072	Washer	74274-1	126232	System
500-500	125943	Box	55083-1	126096	"T" Bar			
500-703	125944	Foot	55083-2	126097	"T" Bar			
500-1008	125945	Switch	55083-3	126098	"T" Bar			
W-666	126233	Pivot	55083-4	126099	"T" Bar			
W-667	74877	Spring	55083-5	126100	"T" Bar			
W-669	117313	Spindle	55083-6	126101	"T" Bar			
700-51	125946	Screw	55083-7	126102	"T" Bar			
700-55	125947	Screw	55083-8	126103	"T" Bar			
700-59	125948	Screw	55083-9	126104	"T" Bar			
700-60	125949	Screw	55083-10	126105	"T" Bar			
700-65	125922	Screw	55083-11	126106	"T" Bar			

NEW TO OLD MEDICAL CONVERSION LIST

New No.	Old No.	New No.	Old No.	New No.	Old No.	New No.	Old No.	New No.	Old No.
1036	34-51	3642	200-706	112622	33-334	125127	33-58	125198	122-557
1137	33-1	3646	200-1032	112623	33-335	125128	33-59	125199	33-278
1138	33-3	3646	M-10076	112624	33-337	125129	33-60	125200	33-287
1139	33-5	3647	200-1139	112625	33-347	125130	33-63	125201	33-283
1160	33-6	3649	200-2212	112626	34-4	125131	33-65	125202	33-285
1161	33-7	3650	700-71	112627	34-11	125132	33-70	125203	33-289
1162	33-10	4702	35-52	112628	34-64	125133	33-72	125205	33-296
	33-156	4703	35-84	112629	35-1	125134	33-73	125206	33-334
1163	33-11	4705	35-134	112630	35-2	125135	33-75	125207	33-339
1164	33-14	4706	300-505	112631	35-8	125136	33-79	125208	33-340
1165	33-16	4707	300-506	112632	35-33	125137	33-82	125209	33-342
1166	33-27	4708	35-87	112633	35-44	125138	33-85	125210	100-510
1167	33-19	4814	M-10082	112634	35-89	125139	33-88	125211	33-344
1168	33-35	5075	34-5	112635	35-137	125140	33-88	125212	33-346
1169	33-37	5556	300-302	112636	35-140	125141	33-89	125213	33-348
1170	33-49	5740	33-13	112640	122-384	125142	33-98	125214	33-349
1171	33-53	5815	34-14	114754	138-5	125143	33-101	125215	33-350
1172	33-54	5816	100-74	114758	138-141	125144	33-108	125216	33-336
1173	33-64	6033	200-1031	117313	M-669	125145	33-111	125217	33-362
1174	33-157	9574	100-88	1199780	122-490	125147	33-121	125218	34-1
1175	33-169	9575	122-113	11995980	122-343	125148	33-123	125219	34-3
1176	33-195	9576	200-1135	11996080	122-644	125149	33-130	125220	34-10
1177	33-234	9577	200-1137	12049980	122-570	125150	33-135	125221	34-13
1178	33-237	45813	M-10077	125000	33-74	125151	33-142	125222	34-16
1179	33-238	49054	33-111	125001	33-132	125152	33-143	125223	34-19
1181	33-360	55257	34-12	125002	33-179	125153	33-151	125224	34-24
1222	33-39	70071	M-10088	125003	33-204	125154	33-153	125225	34-27
1223	33-69	70072	M-10090	125004	33-272	125155	33-158	125226	34-34
1263	33-4	70073	34-7	125005	33-280	125156	33-162	125227	34-39
1279	33-290	70793	M-1098	125006	33-333	125157	33-163	125228	34-41
2723	34-43	71047	43-12	125009	34-59	125158	33-167	125229	34-48
3195	34-2	71444	123-8	125010	61-24	125159	33-168	125230	34-54
3197	34-6	71441	M-1958	125011	103-27	125160	33-175	125231	34-58
3198	34-8	73669	M-2328	125012	122-48	125161	33-174	125232	34-60
3199	34-9	73202	700-68	125013	122-276	125162	33-180	125233	34-61
3600	34-25	74877	M-647	125014	122-337	125163	33-185	125234	34-62
3602	34-28	74878	M-9542	125015	123-244	125164	33-193	125235	34-66
3603	34-29	74879	4-8	125016	126-123	125165	33-194	125236	35-13
3604	34-50	8052080	122-352	125091	123-221	125166	33-196	125237	35-16
3605	34-53	8052380	122-356	125092	34-111	125167	33-197	125238	35-23
3606	34-55	84495	122-562	125097	125-197	125168	33-198	125239	35-24
3608	35-54	84990	M-6095	125098	123-198	125169	33-202	125240	35-26
3610	35-126	86341	M-4470	125099	52-4	125170	33-207	125241	35-27
3611	35-129	86850	33-240	125100	2-3	125171	33-208	125242	35-28
3614	36-54	87636	33-270	125101	4-4	125172	33-209	125243	35-34
3614	35-137	89993	138-100	125104	1-11	125173	33-210	125244	35-40
3615	35-132	89883	M-9337-e	125103	6-1	125174	33-211	125245	35-43
3616	36-173	110434	33-116	125104	6-2	125175	33-212	125246	35-47
3618	61-7	110435	34-56	125105	23-8	125176	33-213	125247	35-68
3620	100-75	110436	35-62	125106	25-21	125177	33-217	125248	35-53
3621	100-85	110437	35-70	125107	28-19	125178	33-224	125249	35-66
3623	100-97	110438	35-88	125108	33-2	125179	33-225	125250	35-68
3624	100-108	110439	36-146	125109	33-8	125180	33-227	125251	35-69
3625	3-122-39	110440	36-153	125110	33-9	125181	33-228	125252	35-71
3626	122-68	110441	100-96	125111	33-12	125182	33-267	125253	35-72
3627	8-122-234	110442	138-22	125112	33-15	125183	33-235	125254	35-78
3628	123-7	110443	138-55	125113	33-18	125184	33-236	125255	35-80
3629	123-10	110444	138-58	125114	33-22	125185	33-241	125256	35-84
3630	123-36	110445	138-137	125115	33-23	125186	33-244	125257	35-85
3632	123-163	110446	1000-212	125116	33-29	125187	33-245	125258	35-99
3633	123-164	110741	33-78	125117	33-32	125188	33-250	125259	34-101
3634	123-165	110742	33-311	125118	33-36	125189	33-252	125260	35-106
3635	123-166	110743	M-10074	125119	33-38	125190	33-253	125261	35-111
3636	123-167	110901	( 122-374	125120	33-41	125191	33-254	125262	35-116
3637	123-194		( 122-367	125121	33-42	125192	33-255	125263	35-125
3638	123-7	110902	( 122-367	125122	33-43	125193	33-257	125264	35-124
3639	200-20		( 122-368	125123	33-45	125194	33-264	125265	35-125
3639	M-10083	111019	122-575	125124	33-50	125195	33-271	125266	35-131
3640	200-153	112620	33-21	125125	33-51	125196	33-274	125267	35-132
		3671	33-170	125126	33-57	125197	33-276	125268	35-133

New No.	Old No.	New No.	Old No.	New No.	Old No.	New No.	Old No.	New No.	Old No.
125269	36-190	125343	100-145	125417	122-63	125491	122-363	125564	122-457
125270	36-19	125344	100-146	125418	122-67	125492	122-364	125565	122-459
125271	36-23	125345	100-151	125419	122-69	125493	122-365	125566	122-460
125272	36-24	125346	100-152	125420	122-80	125494	122-366	125567	122-461
125273	36-28	125347	100-153	125421	122-84	125495	122-369	125568	122-462
125274	36-35	125348	100-159	125422	122-86	125496	122-370	125569	122-463
125275	36-38	125349	100-167	125423	122-88	125497	122-371	125570	122-464
125276	36-39	125350	100-173	125424	122-89	125498	122-373	125571	122-465
125277	36-43	125351	100-178	125425	122-94	125499	122-374	125572	122-466
125278	36-51	125352	100-179	125426	122-95	125500	122-375	125573	122-467
125279	36-72	125353	100-187	125427	122-97	125501	122-376	125574	122-468
125280	36-73	125354	100-188	125428	122-100	125502	122-377	125575	122-469
125281	36-80	125355	100-217	125429	122-101	125503	122-378	125576	122-470
125282	36-85	125356	100-218	125430	122-102	125504	122-380	125577	122-471
125283	36-103	125357	100-219	125431	122-106	125505	122-381	125578	122-472
125284	36-104	125358	100-220	125432	122-1060	125506	122-382	125579	122-473
125285	36-105	125359	100-227	125433	122-107	125507	122-383	125580	122-474
125286	36-106	125360	100-228	125434	122-108	125508	122-384	125581	122-475
125287	36-109	125361	100-234	125435	122-111	125509	122-387	125582	122-476
125288	36-110	125362	100-235	125436	122-112	1255090C	122-392	125583	122-477
125289	36-113	125363	100-246	125437	122-113	125510	122-398	125584	122-478
125290	36-114	125364	100-253	125438	122-116	125511	122-389	125585	122-479
125291	36-124	125365	100-254	125439	122-117	125512	122-390	125586	122-480
125292	36-132	125366	100-255	125440	122-118	125514	122-396	125587	122-481
125293	36-136	125367	100-256	125441	122-119	125515	122-397	125588	122-482
125294	36-136	125368	100-257	125442	122-120	125516	122-399	125589	122-483
125295	36-139	125369	101-75	125443	122-121	125517	122-400	125590	122-484
125296	36-147	125370	101-77	125444	122-124	125518	122-401	125591	122-485
125297	36-150	125371	101-102	125445	122-126	125519	122-402	125592	122-487
125298	36-151	125372	101-113	125446	122-127	125520	122-403	125594	122-511
125299	36-154	125373	112-7	125447	122-128	125521	122-406	125595	122-526
125300	36-164	125374	112-8	125448	122-129	125522	122-405	125596	122-528
125301	36-165	125375	112-64	125449	122-130	125523	122-406	125597	122-529
125302	36-170	125376	120-20	125450	122-133	125524	122-407	125598	122-530
125303	36-172	125377	122-24	125451	122-134	125525	122-408	125599	122-531
125304	36-174	125379	122-5	125452	122-135	125526	122-409	125600	122-532
125306	47-10	125380	122-11	125453	122-136	125527	122-410	125601	122-533
125307	47-3	125381	122-12	125454	122-137	125528	122-411	125602	122-534
125308	47-2	125382	122-18	125455	122-139	125529	122-412	125603	122-535
125309	47-4	125383	122-19	125456	122-140	125530	122-413	125604	122-536
125310	47-5	125384	122-20	125457	122-143	125531	122-414	125605	122-537
125311	52-5	125385	122-21	125458	122-146	125532	122-415	125606	122-538
125312	54-3	125386	122-22	125459	122-147	125533	122-416	125607	122-539
125313	61-9	125387	122-23	125461	122-149	125534	122-417	125608	122-540
125314	61-10	125388	122-24	125462	122-197	125535	122-418	125609	122-541
125315	61-12	125389	122-25	125463	122-198	125536	122-419	125610	122-542
125316	61-21	125390	122-26	125464	122-199	125537	122-420	125611	122-543
125317	61-23	125391	122-27	125465	122-196	125538	122-421	125612	122-544
125318	80-1	125392	122-30	125466	122-201	125539	122-422	125613	122-545
125319	80-2	125393	122-39	125467	122-202	125540	122-423	125614	122-546
125320	80-3	125394	122-35	125468	122-204	125541	122-424	125615	122-547
125321	80-4	125395	122-36	125469	122-205	125542	122-425	125616	122-548
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125325	100-72	125399	122-41	125473	122-250	125546	122-429	125620	122-552
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125643	122-589	125717	125-184	125792	300-1132	125866	300-308	125939	500-311
125644	122-590	125718	125-194	125793	300-1134	125867	300-312	125940	500-403
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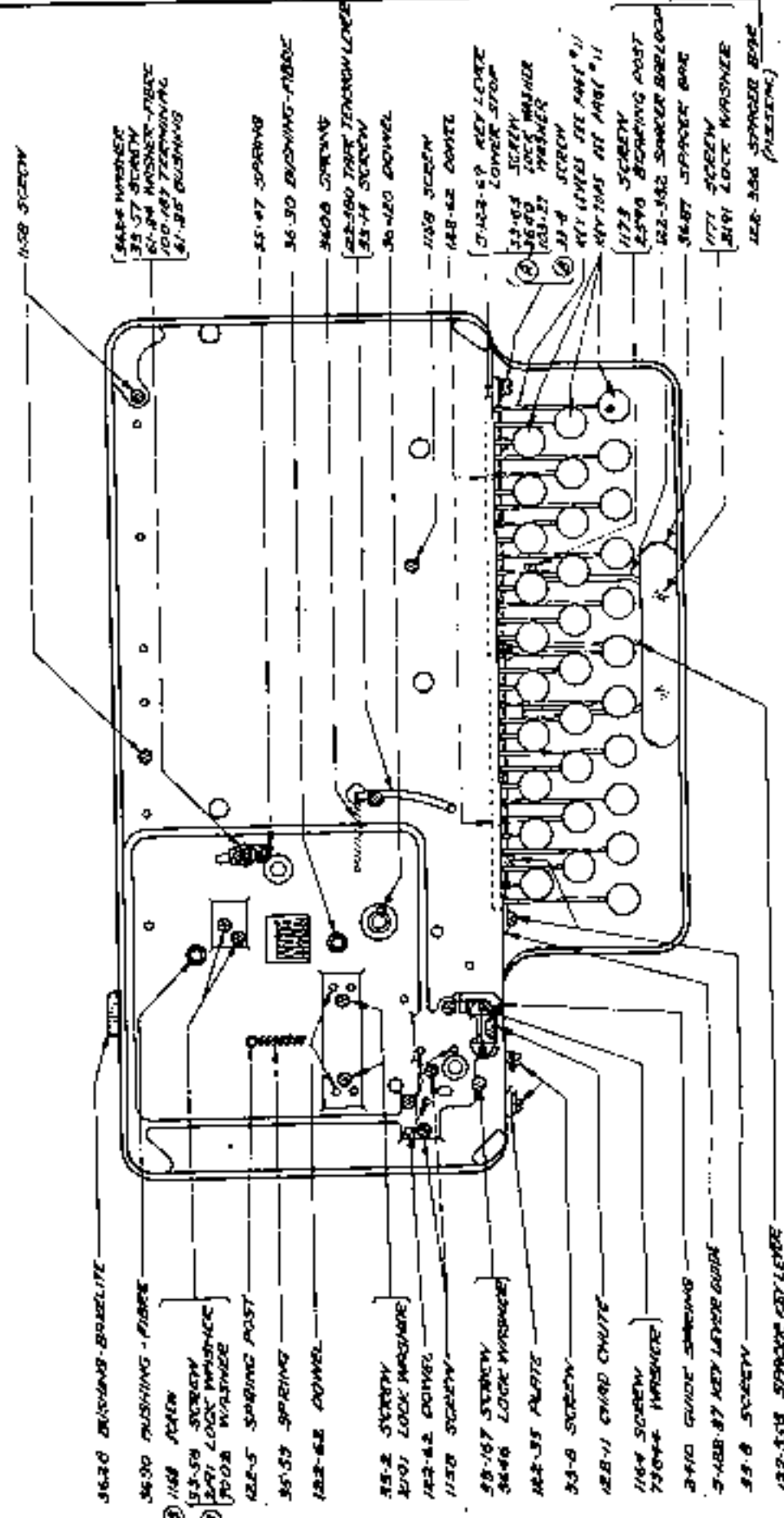
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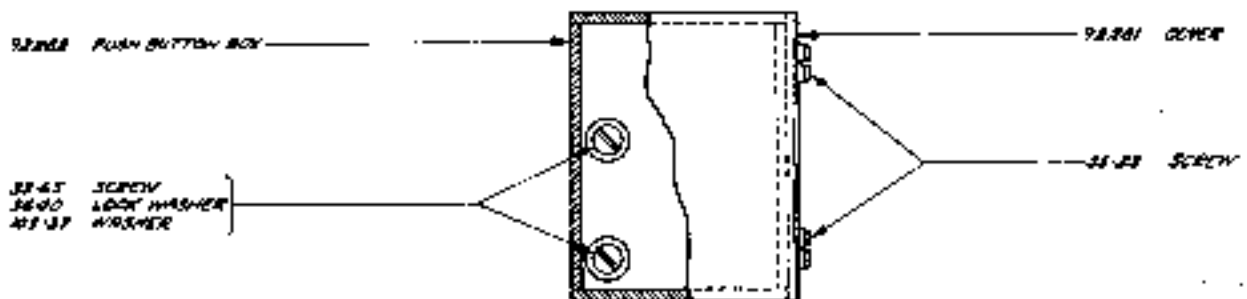
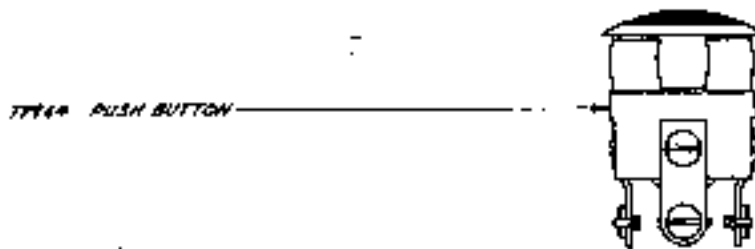
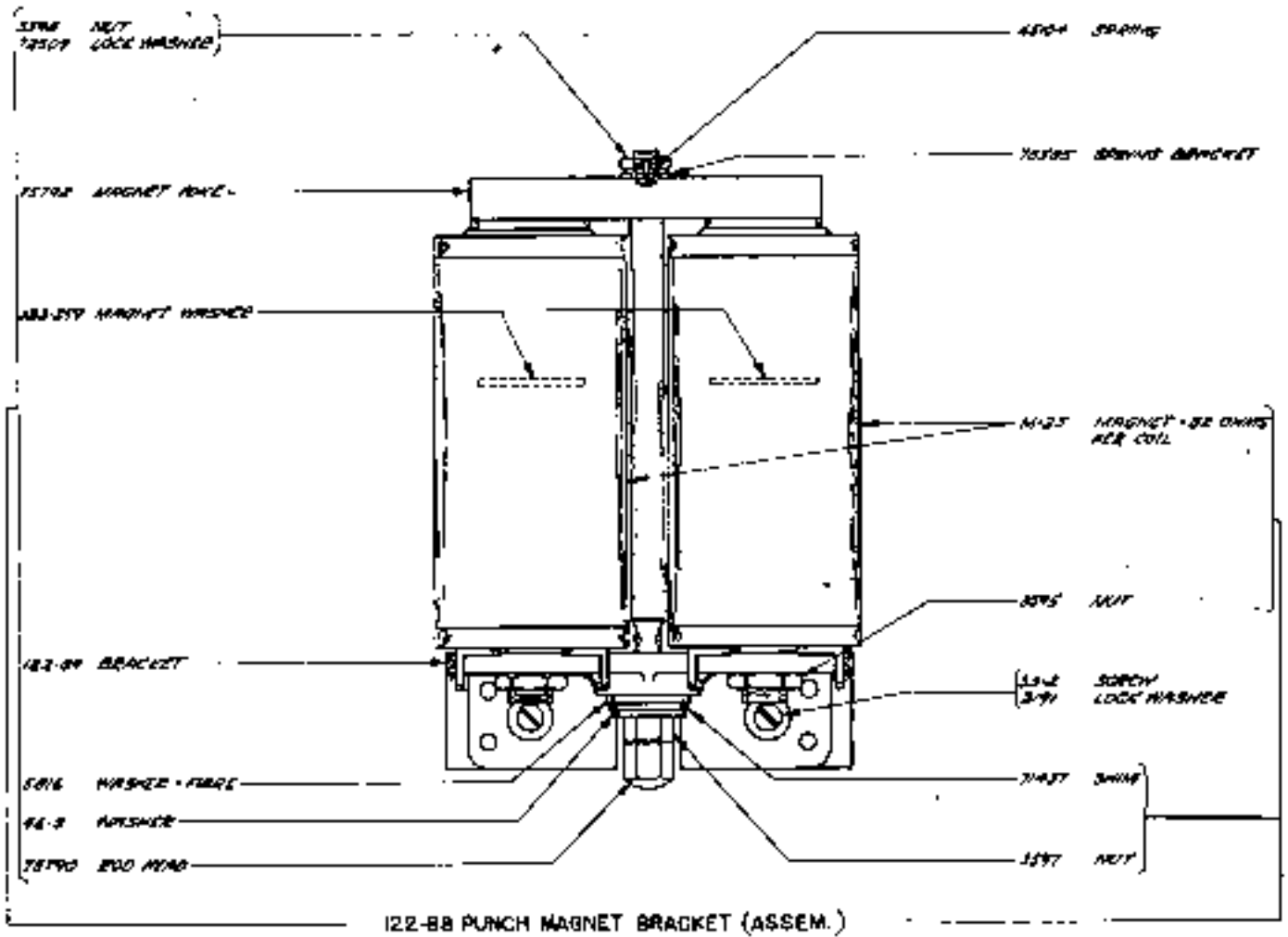
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 122-4V8 CORO  
 122-4V9 CORO  
 122-4W1 CORO  
 122-4W2 CORO  
 122-4W3 CORO  
 122-4W4 CORO  
 122-4W5 CORO  
 122-4W6 CORO  
 122-4W7 CORO  
 122-4W8 CORO  
 122-4W9 CORO  
 122-4X1 CORO  
 122-4X2 CORO  
 122-4X3 CORO  
 122-4X4 CORO  
 122-4X5 CORO  
 122-4X6 CORO  
 122-4X7 CORO  
 122-4X8 CORO  
 122-4X9 CORO  
 122-4Y1 CORO  
 122-4Y2 CORO  
 122-4Y3 CORO  
 122-4Y4 CORO  
 122-4Y5 CORO  
 122-4Y6 CORO  
 122-4Y7 CORO  
 122-4Y8 CORO  
 122-4Y9 CORO  
 122-4Z1 CORO  
 122-4Z2 CORO  
 122-4Z3 CORO  
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 122-4Z8 CORO  
 122-4Z9 CORO

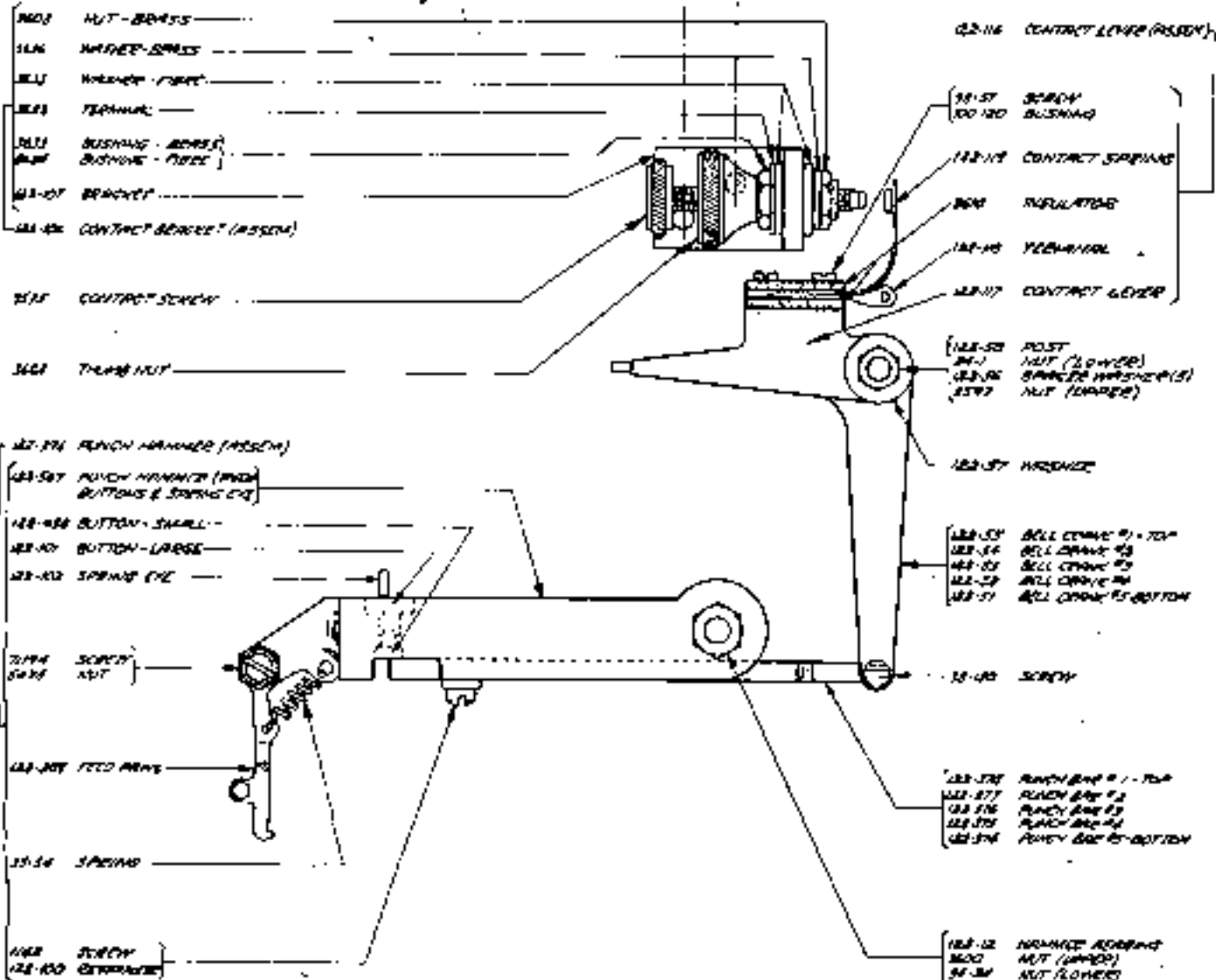
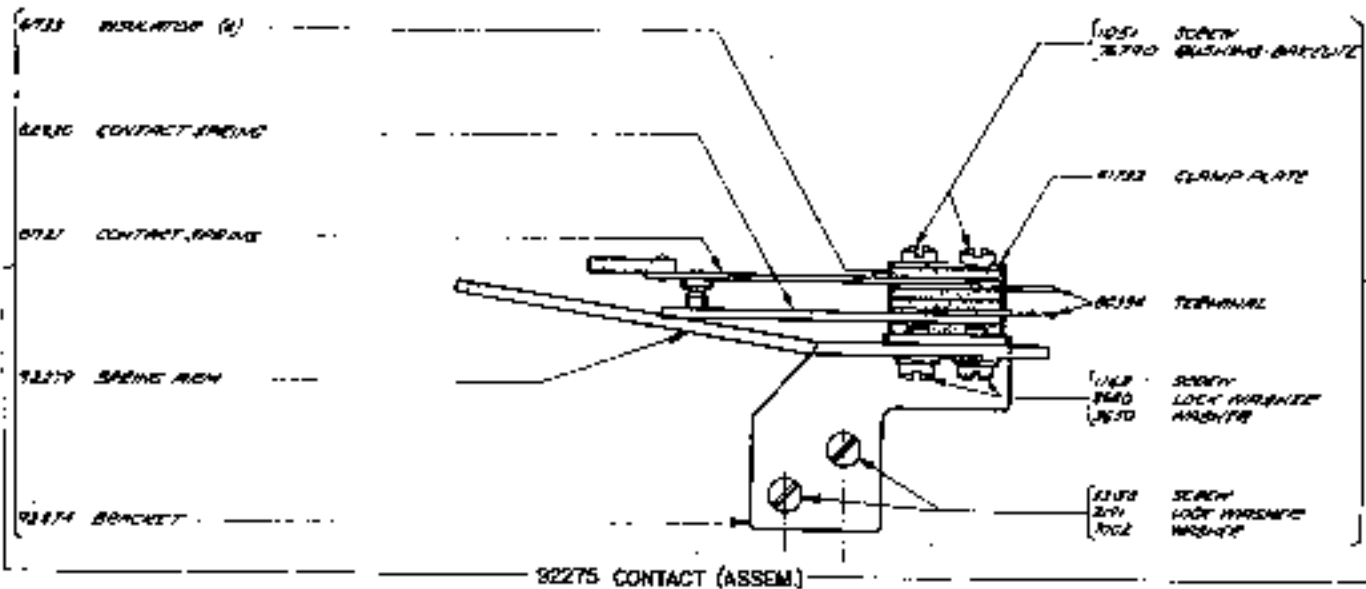


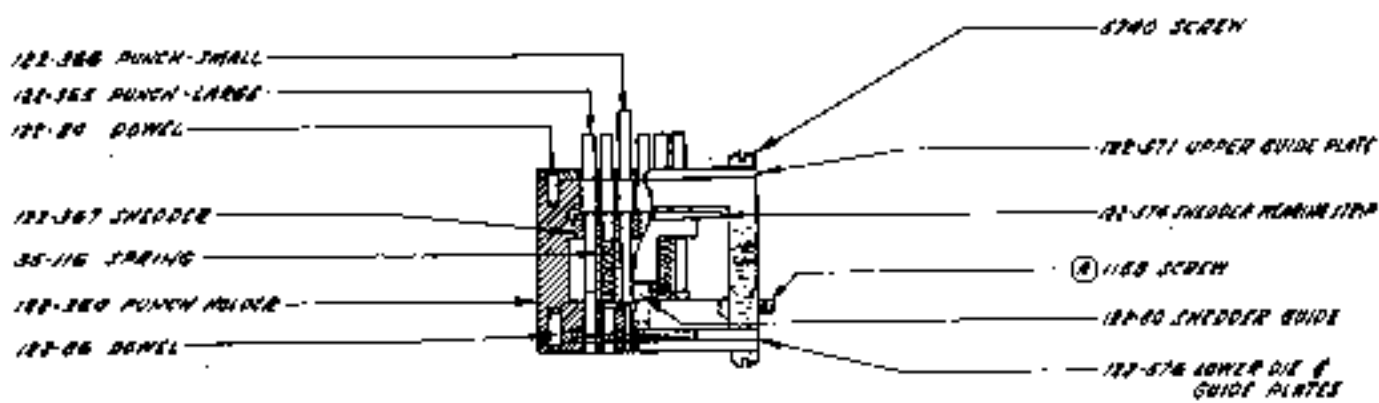
- 36-20 BRUSHING - BRASS/LITE
- 36-30 BRUSHING - FIBRE
- 1158 SCREW
- 15-579 SCREW
- 3471 LOCK WASHNER
- 7002 WASHNER
- 122-5 SPRING POST
- 35-53 SPRING
- 122-62 COVER
- 35-2 SCREW
- 3701 LOCK WASHNER
- 122-42 COVER
- 1158 SCREW
- 38-107 SCREW
- 3446 LOCK WASHNER
- 122-35 ALUCLAD
- 33-8 SCREW
- 122-11 CARD CHUTE
- 1164 SCREW
- 73044 WASHNER
- 3-410 GUIDE SPRINGS
- 3-428-87 KEY LEVER GUIDE
- 33-8 SCREW
- 122-338 SPRING KEY LEVER
- 3424 WASHNER
- 33-57 SCREW
- 67-24 WASHNER - FIBRE
- 100-187 TAPERING WING
- 67-35 BRUSHING
- 36-30 BRUSHING - FIBRE
- 33-47 SPRING
- 36-08 COVER
- 122-500 TAPER TENSION LEVER
- 33-14 SCREW
- 36-120 COVER
- 1158 SCREW
- 122-42 COVER
- 3-422-87 KEY LEVER LOWER STOP
- 33-18 SCREW
- 36-08 LOCK WASHNER
- 103-27 WASHNER
- 33-4 SCREW
- 11111111 SEE PART #11
- 1173 SCREW
- 2590 BRUSHING POST
- 122-302 SPRING BRUSHING
- 36-87 SPRING BAR
- 1171 SCREW
- 3191 LOCK WASHNER
- 122-338 SPRING KEY LEVER (ALUCLAD)

① FOR INFORMATION (SHIPPING WITH BASE) THAT NEED NOT  
 ② FOR INFORMATION AND EQUIPMENT WITH BASES THAT NEED NOT

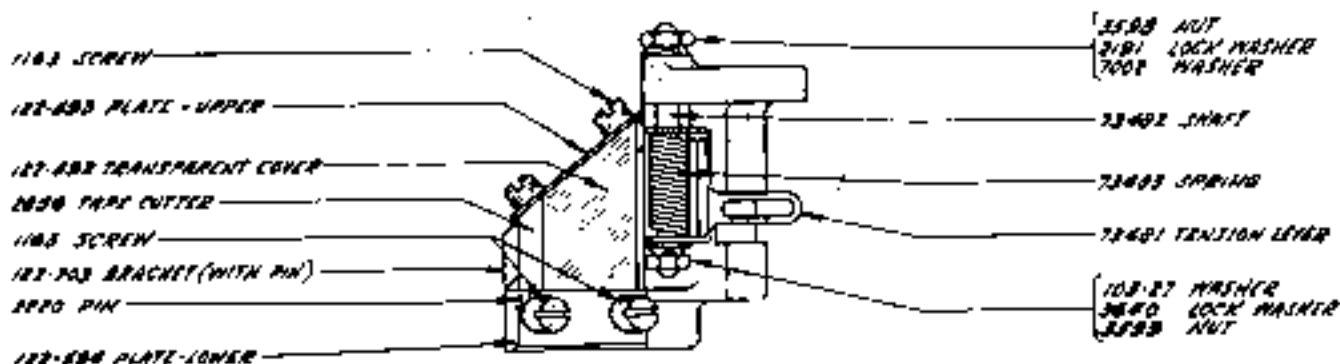




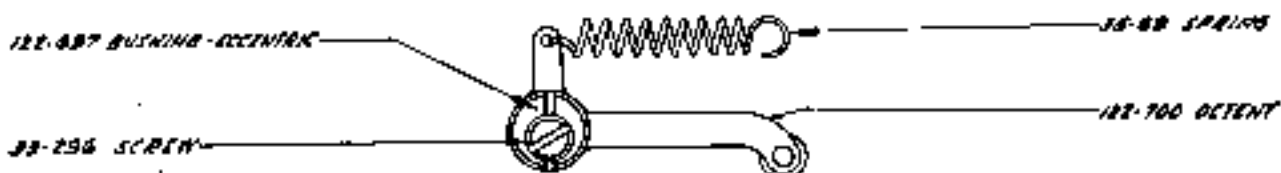
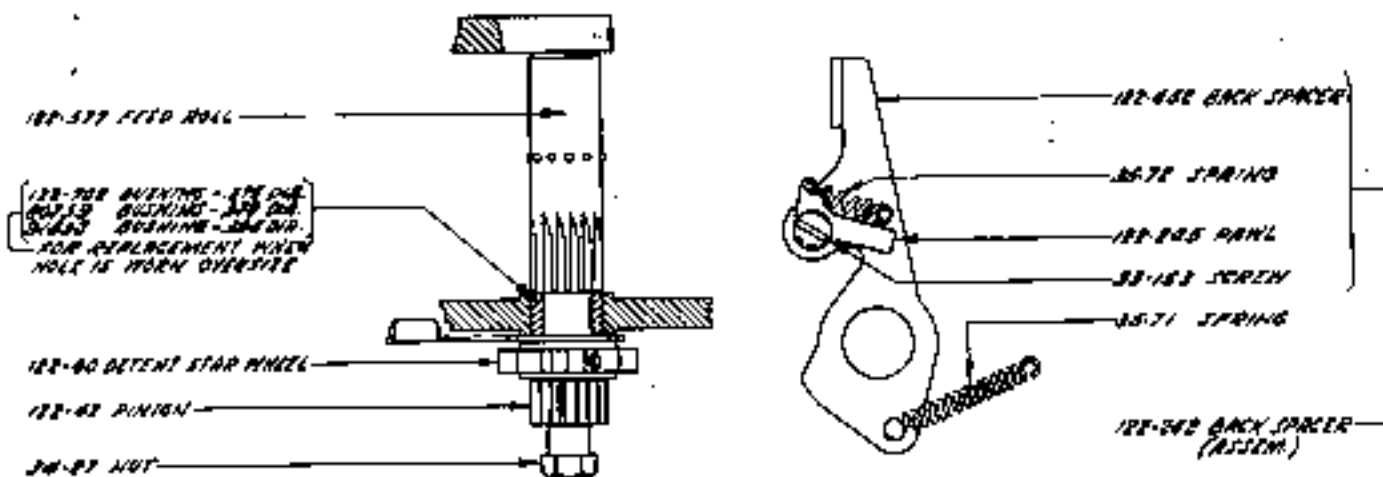


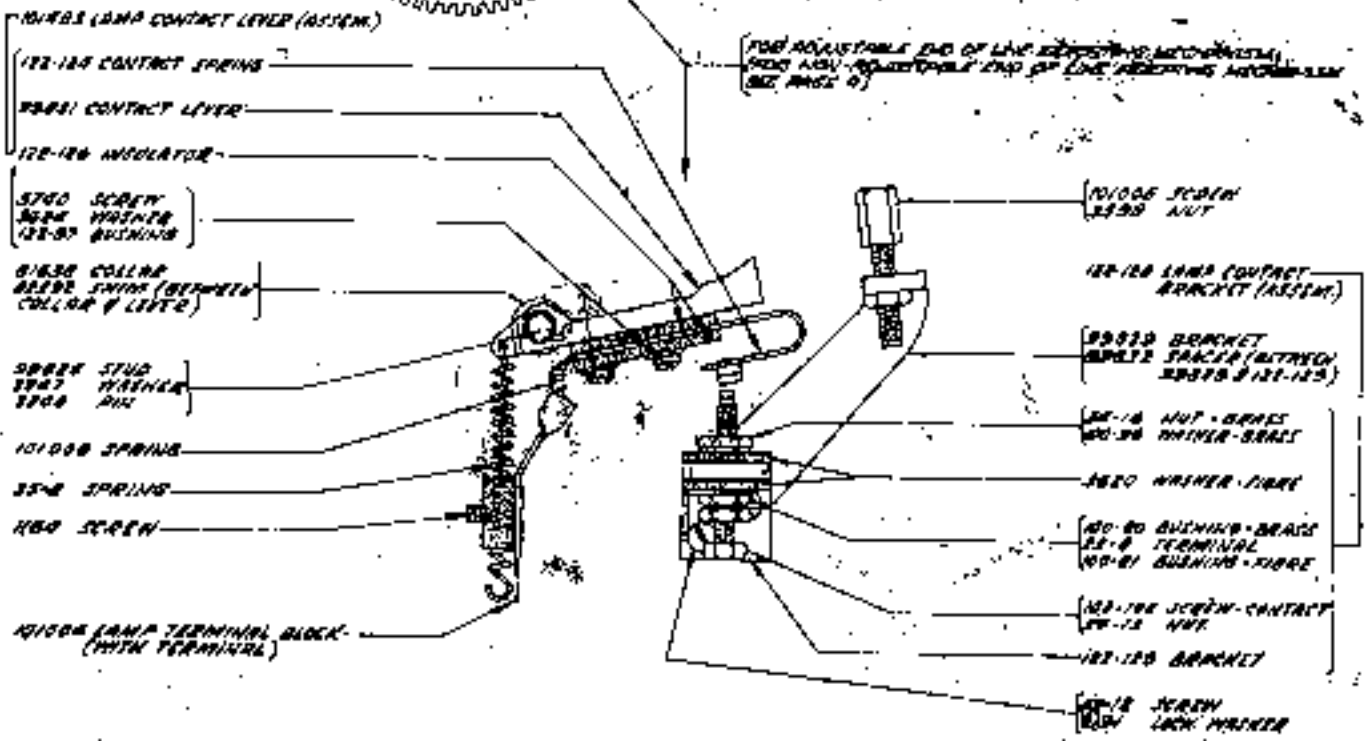
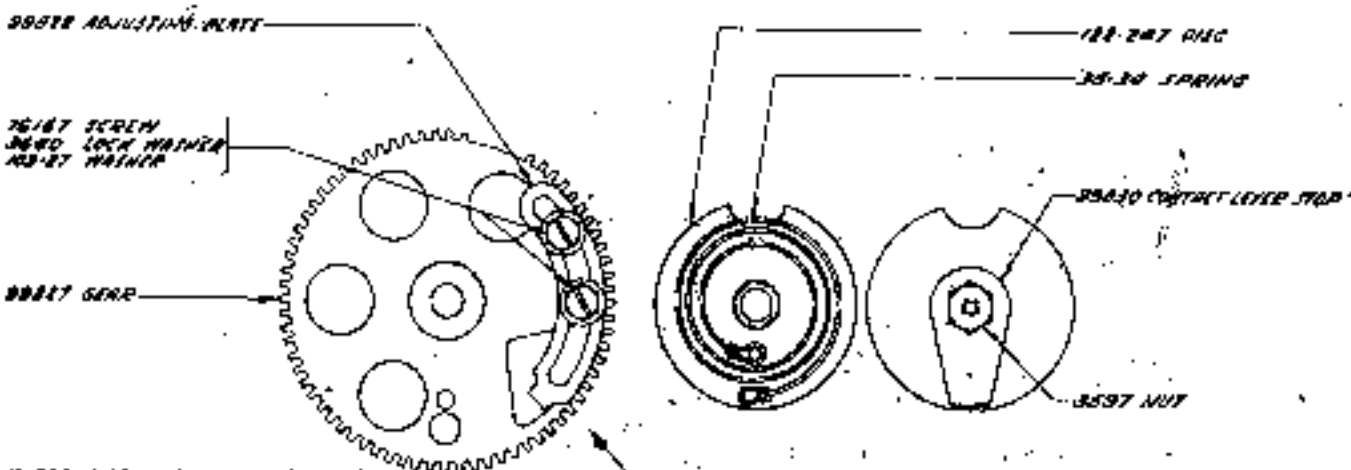
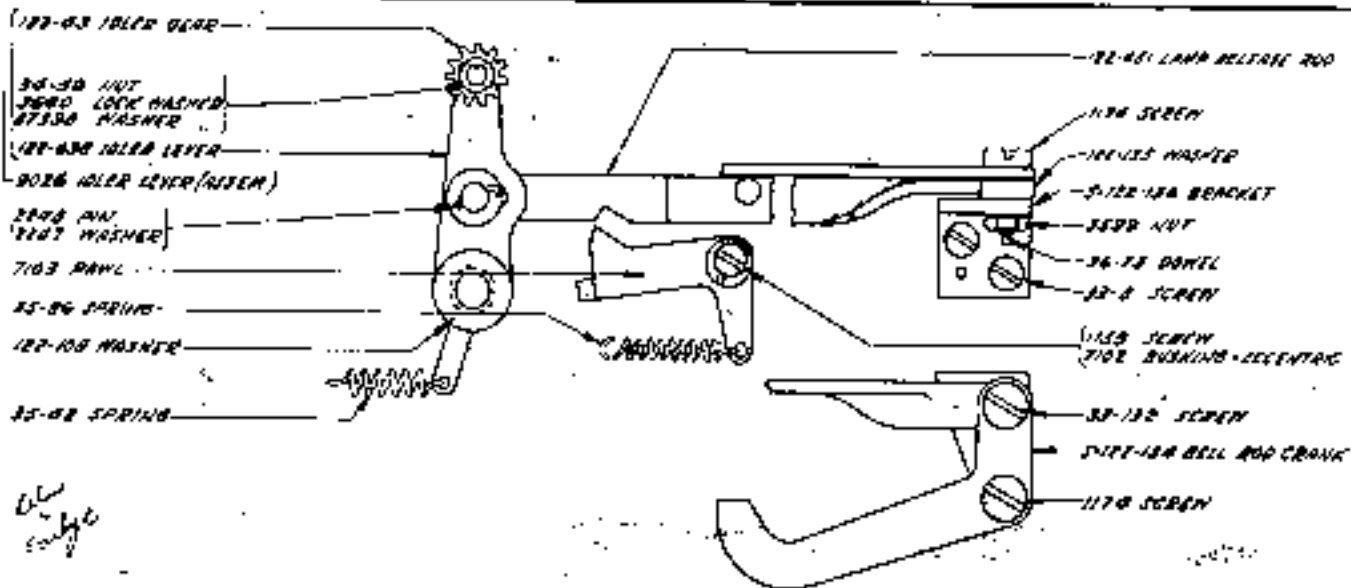


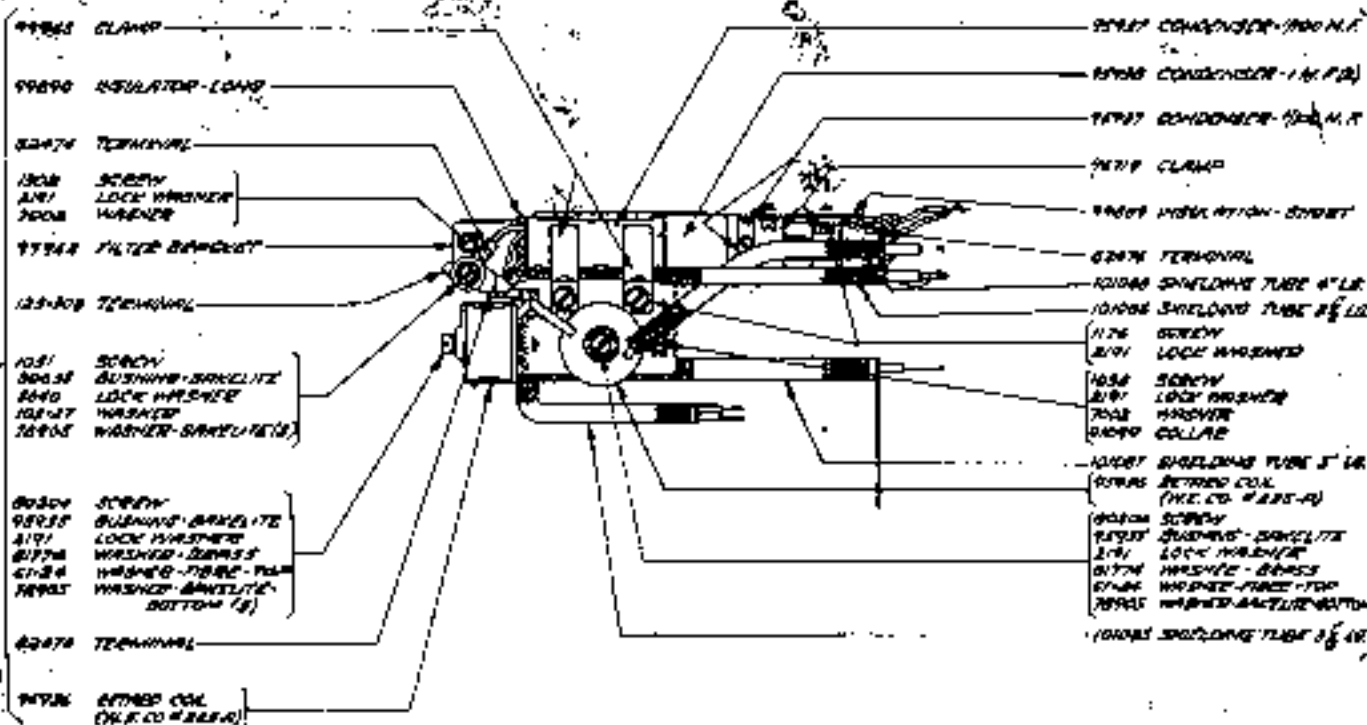
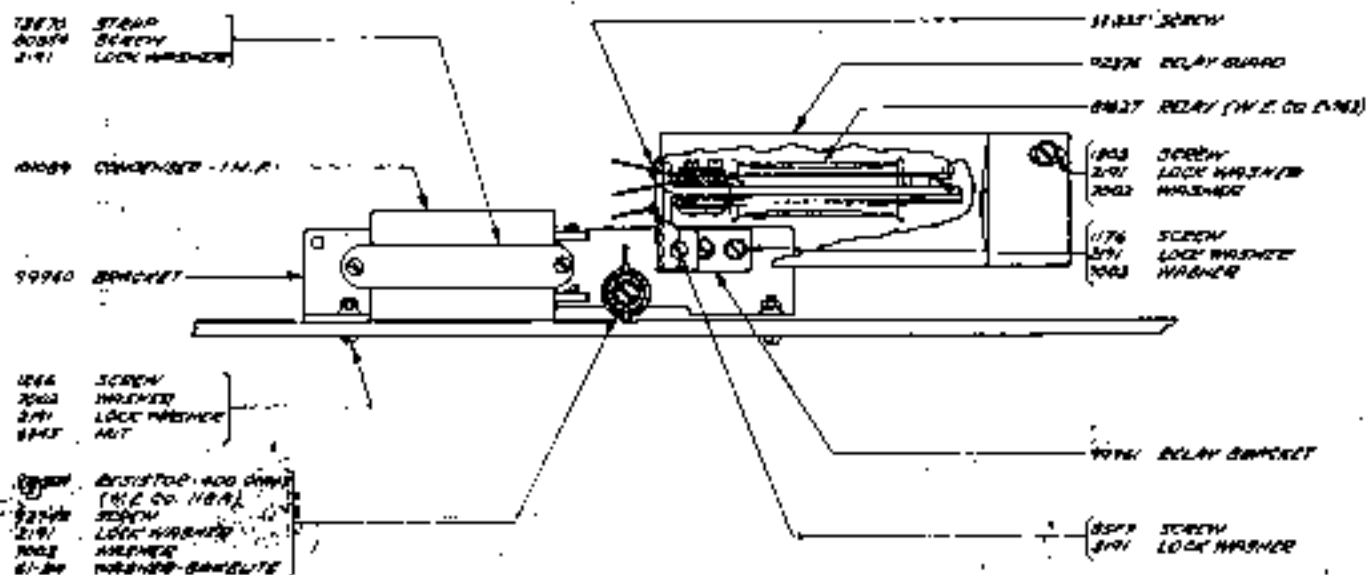
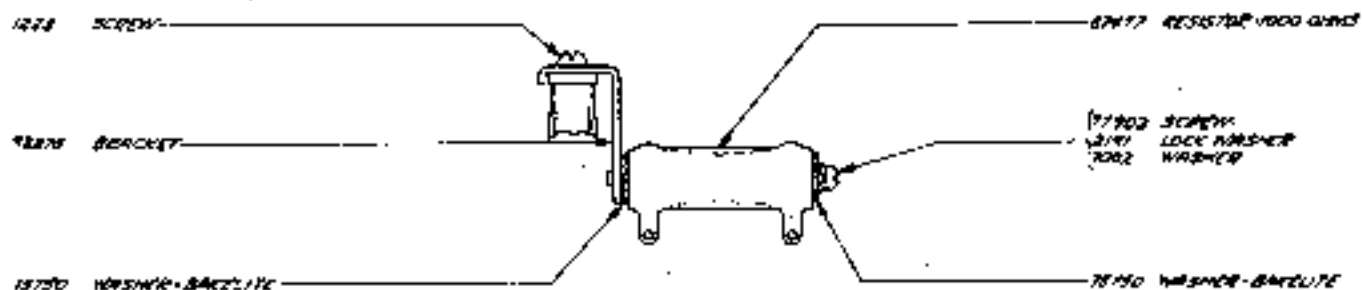
122-678 PUNCH BLOCK (ASSEM.) STRAIGHT FEED HOLE  
EXCLUDED PARTS MARKED (A)



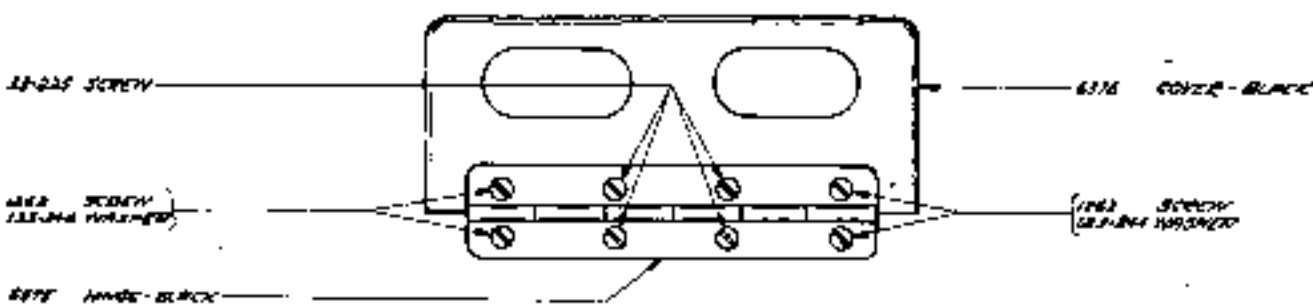
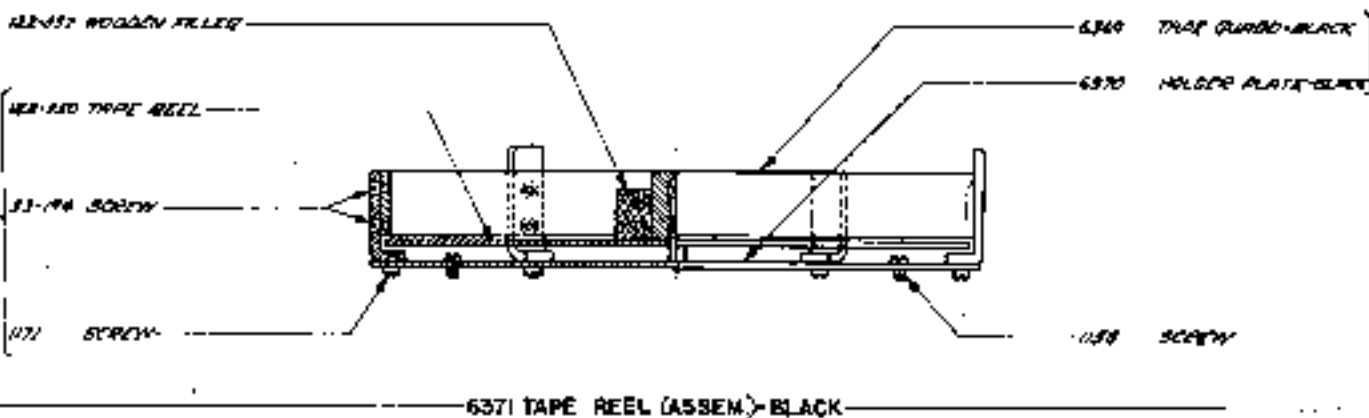
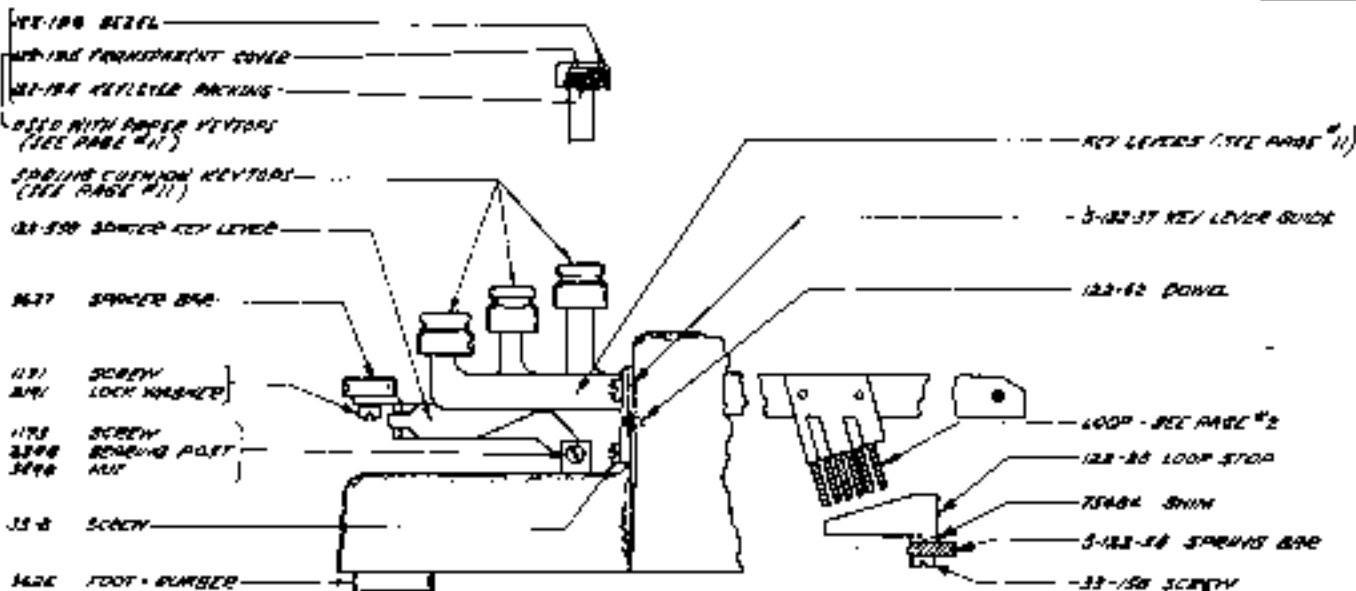
122-686 FEED ROLL BRACKET (ASSEM.)



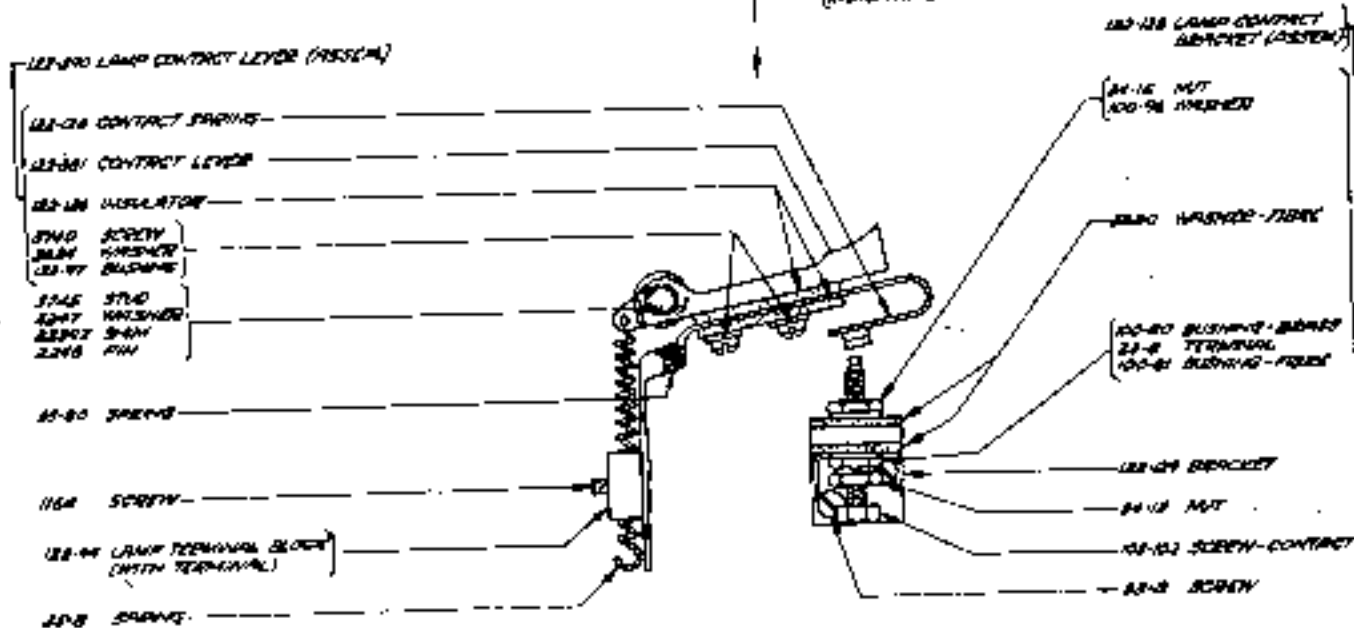
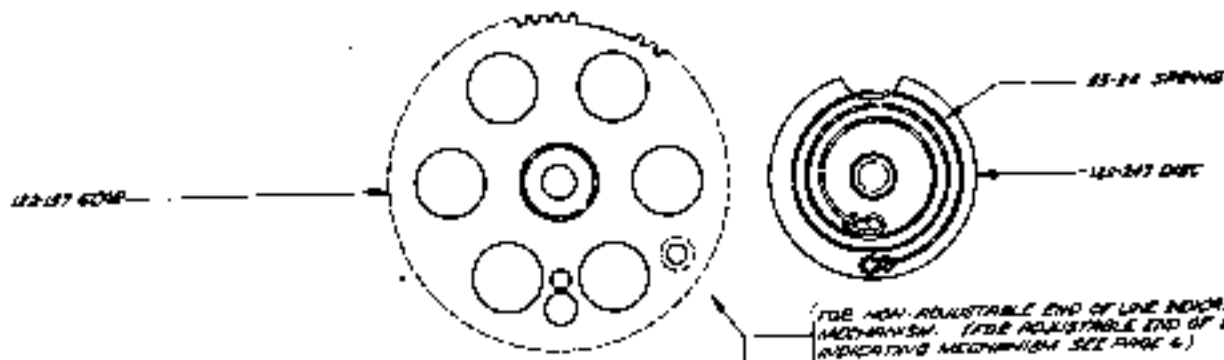
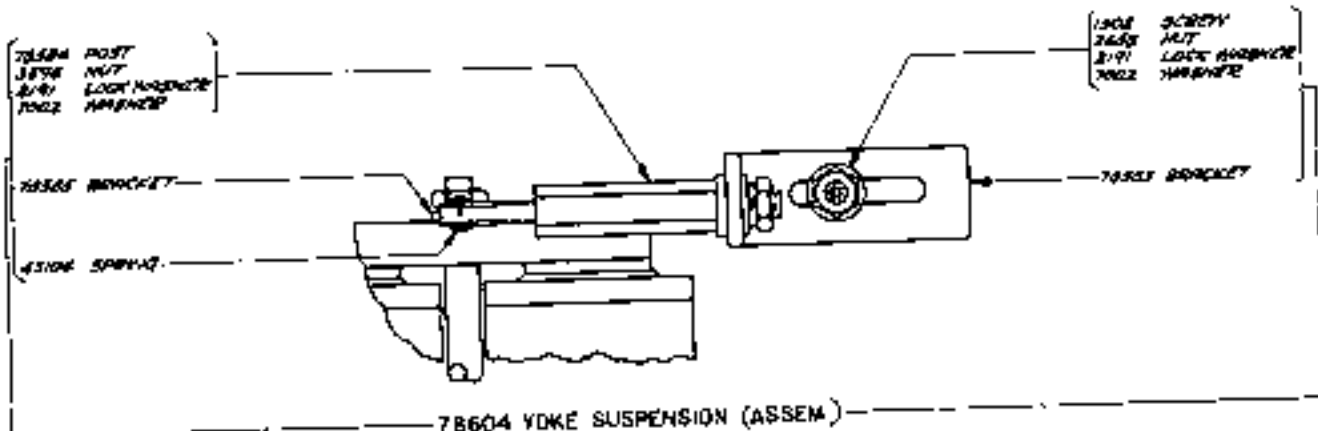
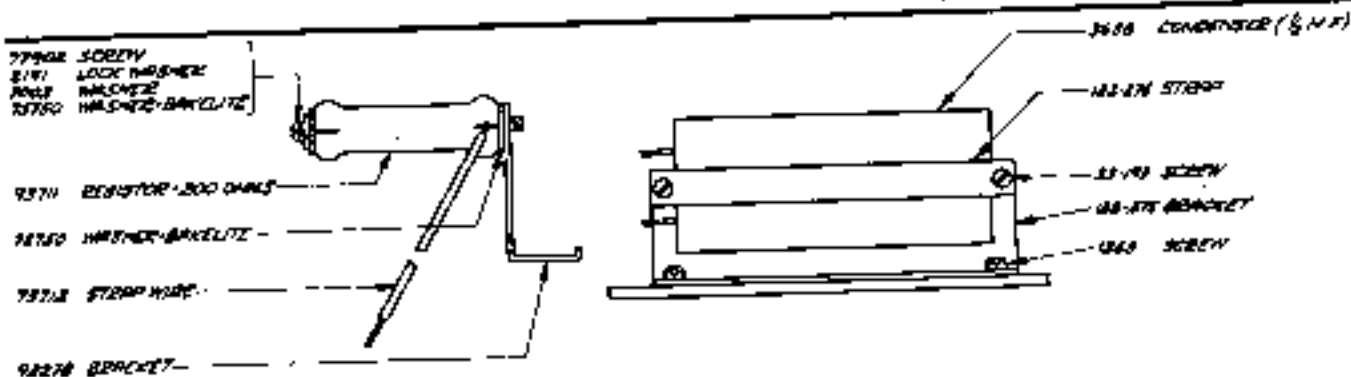


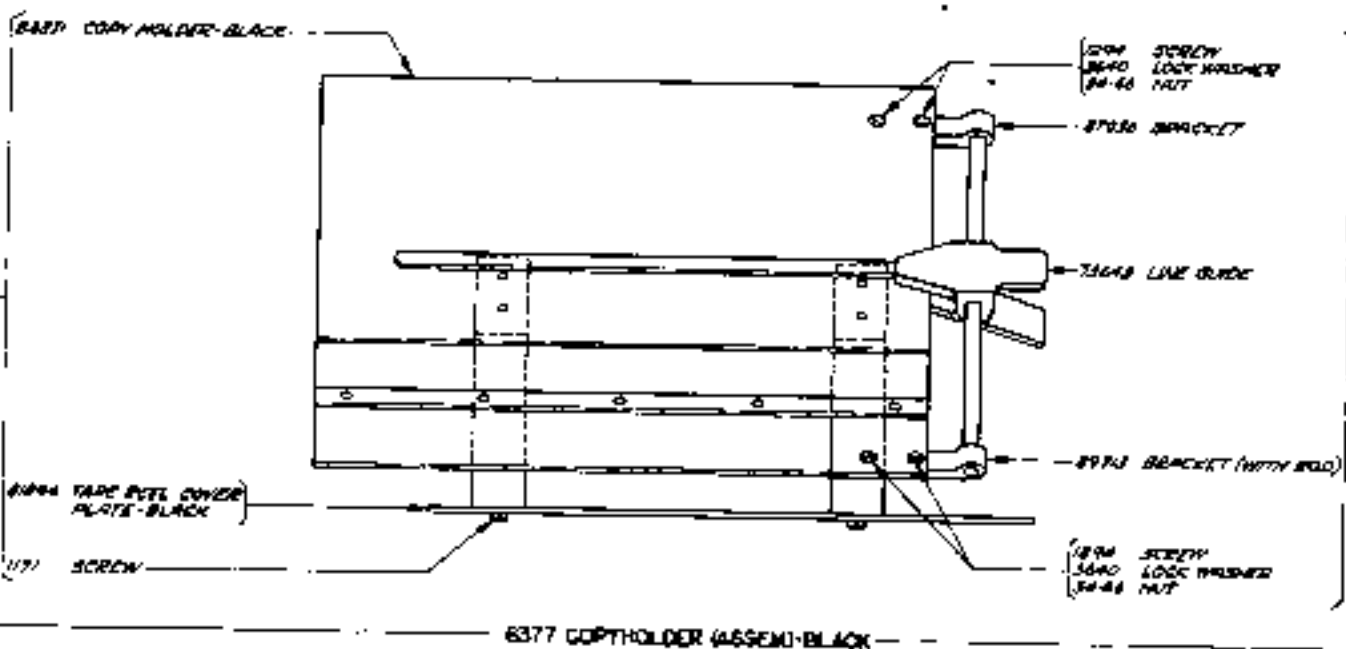
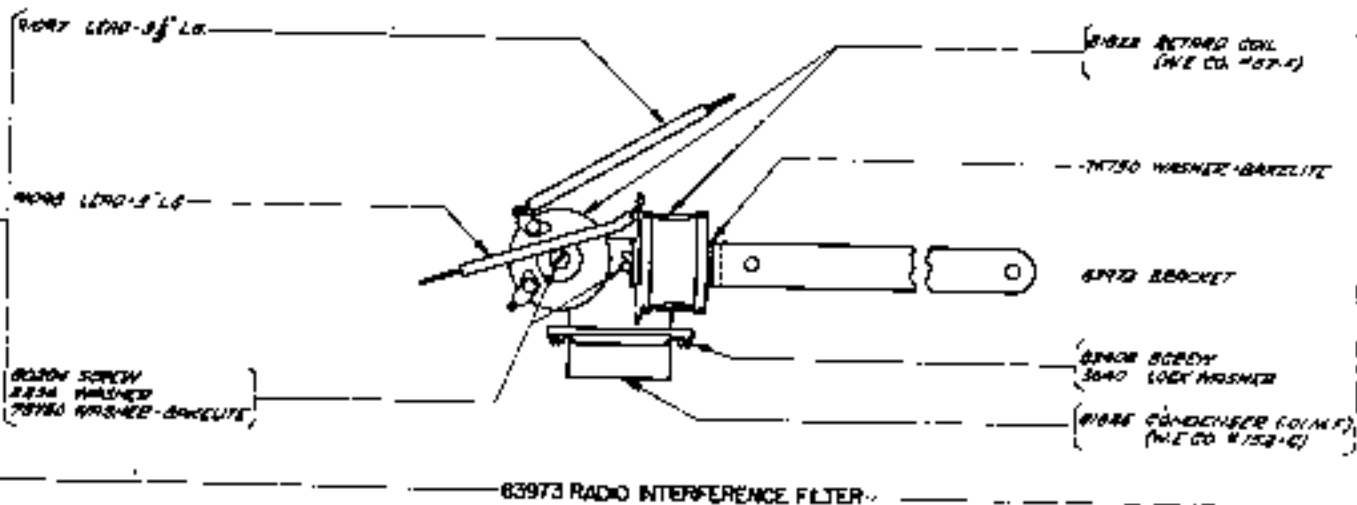


89822 RADIO FILTER









Description	KEYTOPS				KEY LEVERS (WITH COILS)	
	HEAVY		COMMUNICATIONS		For Spring Cushion Keypops	For Paper Keypops
	#23410 Set of Spring Cushion Keypops	#24026 Set of Paper Keypops	#75732 Set of Spring Cushion Keypops	#92325 Set of Paper Keypops		
A	89414	84027	78946	122-459	78913	122-596
B	89425	84038	78947	122-460	78914	122-597
C	89423	84036	78948	122-461	78915	122-598
D	89415	84028	78949	122-462	7719	122-599
E	78950	122-463	78950	122-463	78916	122-600
F	89416	84029	78951	122-581	78917	122-601
G	89417	84030	78952	122-465	78918	122-602
H	89418	84031	78953	122-466	7728	122-603
I	78954	122-467	78954	122-467	7718	122-604
J	89419	84032	78955	122-582	7717	122-605
K	89420	84033	78956	122-469	7712	122-606
L	89421	84034	78957	122-470	78919	122-607
M	78958	122-471	78958	122-471	78920	122-608
N	89426	84071	78959	122-472	7710	122-609
O	78960	122-473	78960	122-473	78921	122-610
P	78961	122-474	78961	122-474	7723	122-611
Q	78962	122-475	78962	122-475	78922	122-612
R	78963	122-476	78963	122-476	78923	122-613
S	78964	122-477	78964	122-477	78924	122-614
T	78965	122-478	78965	122-478	78925	122-615
U	89424	84037	78966	122-479	7724	122-616
V	78967	122-481	78967	122-480	7727	122-617
W	78968	122-482	78968	122-481	78926	122-618
X	78969	122-483	78969	122-482	78927	122-619
Y	89422	84035	78970	122-483	7729	122-620
Z	78972	122-482	78970	122-484	7730	122-621
FIGS	78973	122-483	78972	122-485	101015	122-622
LTRE	78974	122-484	78973	122-486	78928	122-623
CAR. KEY.	78975	122-485	78974	122-487	78929	122-624
LINE FREQ.	78976	122-486	78975	122-488	78931	122-625
—	89413	84039	78976	122-489		
BLANK			78977	122-491		122-622

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37-28	Screw (4-36 x 7/4), 1, 2, 6, 8, 9	122-60	Spring Foot, 2	122-475	(P)
37-12	Screw (4-36 x 1/2), 6	122-61	Dowel, 1, 8	122-476	(Q)
37-18	Screw (2-56 x 3/16), 1	122-62	Spring Foot, 2	122-477	(R)
37-22	Screw (1-44 x 13/32), 1, 3	122-63	Spring Foot, 2	122-478	(S)
37-37	Screw (2-56 x 9/32), 1, 3, 4	122-64	Spring Foot, 2	122-479	(T)
37-28	Screw (2-56 x 7/16), 1, 4	122-65	Key Lever Lower Stop, 1, 2	122-480	(U)
37-53	Screw (2-56 x 1/2), 2	122-66	Shedder Guide, 5	122-481	(V)
37-65	Screw (2-56 x 3/8), 1, 3	122-67	Dowel, 5	122-482	(W)
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37-153	Screw (3-48 Shoulder), 5	122-70	Bracket, 3	122-485	(Z)
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37-157	Screw (3-40 Stop), 1	122-72	Washing, 6, 9		Punch Hammer (with Buttons & Spring Eye), 4
37-193	Screw (3-32 x 1), 9	122-73	Retainer, 4	122-571	Upper Guide Plate, 5
37-194	Screw (3-32 x 3/16), 5	122-74	Button - Large, 4	122-574	Shedder Wearing Strip, 5
37-206	Screw (2-56 x 3/16), 7, 8	122-75	Spring Eye, 4	122-575	Punch Block (Assem.), 5
37-296	Screw (2-40 Shoulder), 5	122-76	Contact Bracket (Assem.), 4	122-576	Lower Dio & Guide Plate, 5
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4-47	Spring, 6, 9	122-86	Insulator, 6, 9	122-586	Key Lever, 11
4-52	Spring, 1	122-87	Lamp Contact Bracket (Assem.), 6, 9	122-587	Key Lever, 11
4-53	Spring, 1	122-88	Bracket, 5, 9	122-588	Key Lever, 11
4-54	Spring, 4	122-89	Washer, 6	122-589	Key Lever, 11
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4-58	Spring, 3	122-91	Gear, 9	122-591	Key Lever, 11
4-69	Spring, 6, 9	122-92	Plug, 1	122-592	Key Lever, 11
4-71	Spring, 6, 9	122-93	Key Lever Packing, 6	122-593	Key Lever, 11
4-73	Spring, 6	122-94	Transparent Cover, 6	122-594	Key Lever, 11
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4-80	Spring, 6	122-96	Bank Spacer (Assem.), 5	122-596	Key Lever, 11
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100-56	Bushing - Fibre, 6, 9	122-105	Punch - Large, 5	122-605	Key Lever, 11
100-96	Washer - Brass, 6, 9	122-106	Punch - Small, 5	122-606	Key Lever, 11
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102-25	Bearing, 2	122-121	Tap, 6	122-621	Key Lever, 11
102-26	Washer, 2	122-122	Tap, 6	122-622	Key Lever, 11
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3000	Nut (6-40 Hex.)	4	73532	Key Lever, 11	84099	P
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7000	Washer, 1, 2, 5, 7, 9, 10		73565	Key Lever, 11	84132	A
7102	Bushing - Eccentric, 6		73566	Key Lever, 11	84133	D
7103	Pawl, 6		73567	Key Lever, 11	84134	F
7102	Washer, 1, 2, 4, 7, 9		73568	Key Lever, 11	84135	G
7110	Key Lever, 11		73569	Key Lever, 11	84136	H
7112	Key Lever, 11		73570	Key Lever, 11	84137	I
7117	Key Lever, 11		73571	Key Lever, 11	84138	J
7118	Key Lever, 11		73572	Key Lever, 11	84139	K
7118	Key Lever, 11		73573	Key Lever, 11	84140	L
7118	Key Lever, 11		73574	Key Lever, 11	84141	M
7118	Key Lever, 11		73575	Key Lever, 11	84142	N
7118	Key Lever, 11		73576	Key Lever, 11	84143	O
7118	Key Lever, 11		73577	Key Lever, 11	84144	P
7118	Key Lever, 11		73578	Key Lever, 11	84145	Q
7118	Key Lever, 11		73579	Key Lever, 11	84146	R
7118	Key Lever, 11		73580	Key Lever, 11	84147	S
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7118	Key Lever, 11		80336	Bushing - 3/8 Dia., 7	84151	W
7118	Key Lever, 11		80337	Screw (6-40 x 1-7/16), 7	84152	X
7118	Key Lever, 11		80338	Relay (W.E. Co. #2-763), 7	84153	Y
7118	Key Lever, 11		80339	Collar, 6	84154	Z
7118	Key Lever, 11		80340	Contact Spring, 4	84155	A
7118	Key Lever, 11		80341	Washer - Brass, 7	84156	D
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7118	Key Lever, 11		80343	Condenser (.01 M.F.) (W.E. Co. #152-O), 10	84158	G
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7118	Key Lever, 11		80346		84161	J
7118	Key Lever, 11		80347		84162	K
7118	Key Lever, 11		80348		84163	L
7118	Key Lever, 11		80349		84164	M
7118	Key Lever, 11		80350		84165	N
7118	Key Lever, 11		80351		84166	O
7118	Key Lever, 11		80352		84167	P
7118	Key Lever, 11		80353		84168	Q
7118	Key Lever, 11		80354		84169	R
7118	Key Lever, 11		80355		84170	S
7118	Key Lever, 11		80356		84171	T
7118	Key Lever, 11		80357		84172	U
7118	Key Lever, 11		80358		84173	V
7118	Key Lever, 11		80359		84174	W
7118	Key Lever, 11		80360		84175	X
7118	Key Lever, 11		80361		84176	Y
7118	Key Lever, 11		80362		84177	Z
7118	Key Lever, 11		80363		84178	A
7118	Key Lever, 11		80364		84179	D
7118	Key Lever, 11		80365		84180	F
7118	Key Lever, 11		80366		84181	G
7118	Key Lever, 11		80367		84182	H
7118	Key Lever, 11		80368		84183	I
7118	Key Lever, 11		80369		84184	J
7118	Key Lever, 11		80370		84185	K
7118	Key Lever, 11		80371		84186	L
7118	Key Lever, 11		80372		84187	M
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7118	Key Lever, 11		80374		84189	O
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# TELETYPE

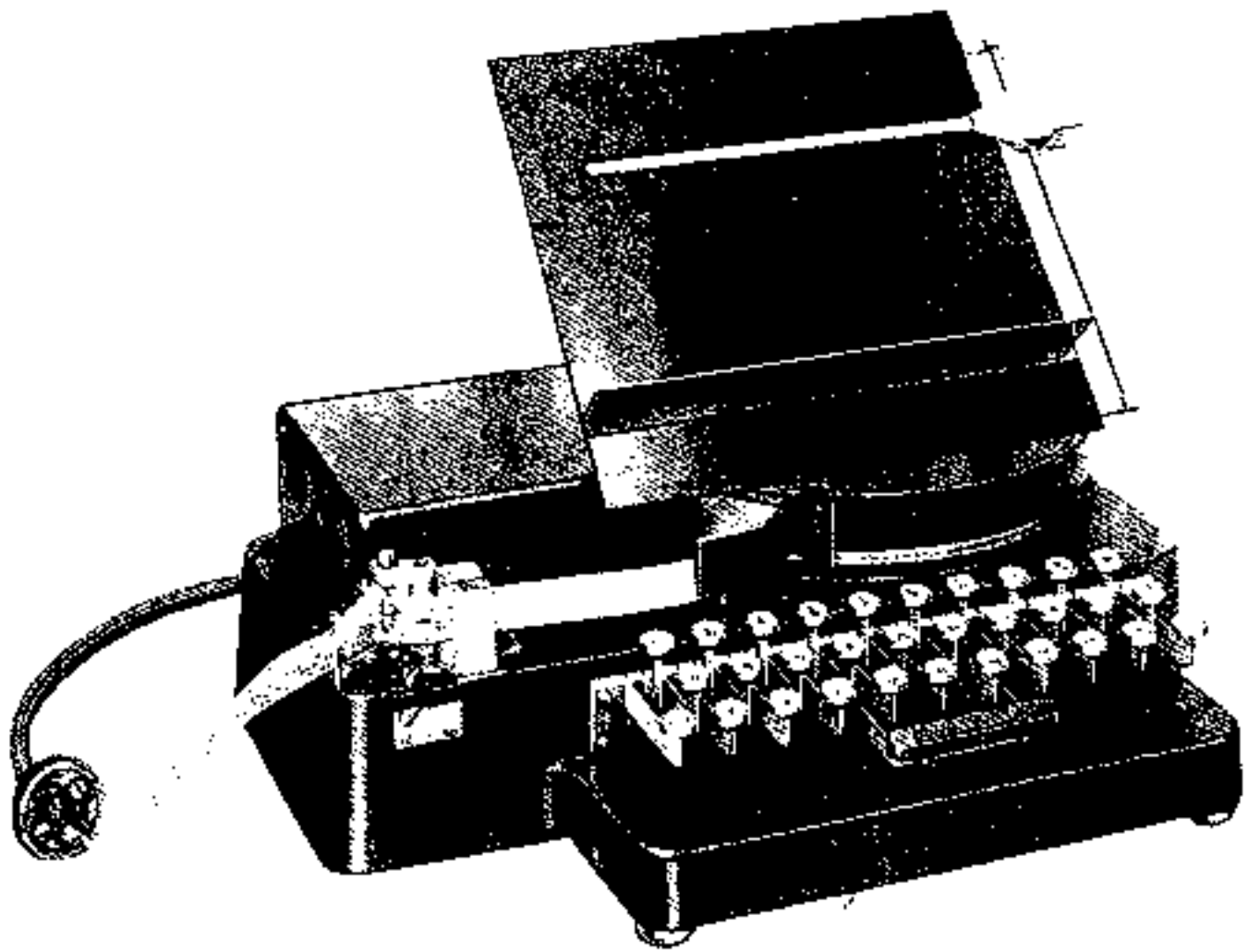
## PRINTING TELEGRAPH SYSTEMS

Historical Reference only.  
Replaced by Bulletin 1093  
March 1941

PERFORATOR PARTS  
BLACK & GREEN



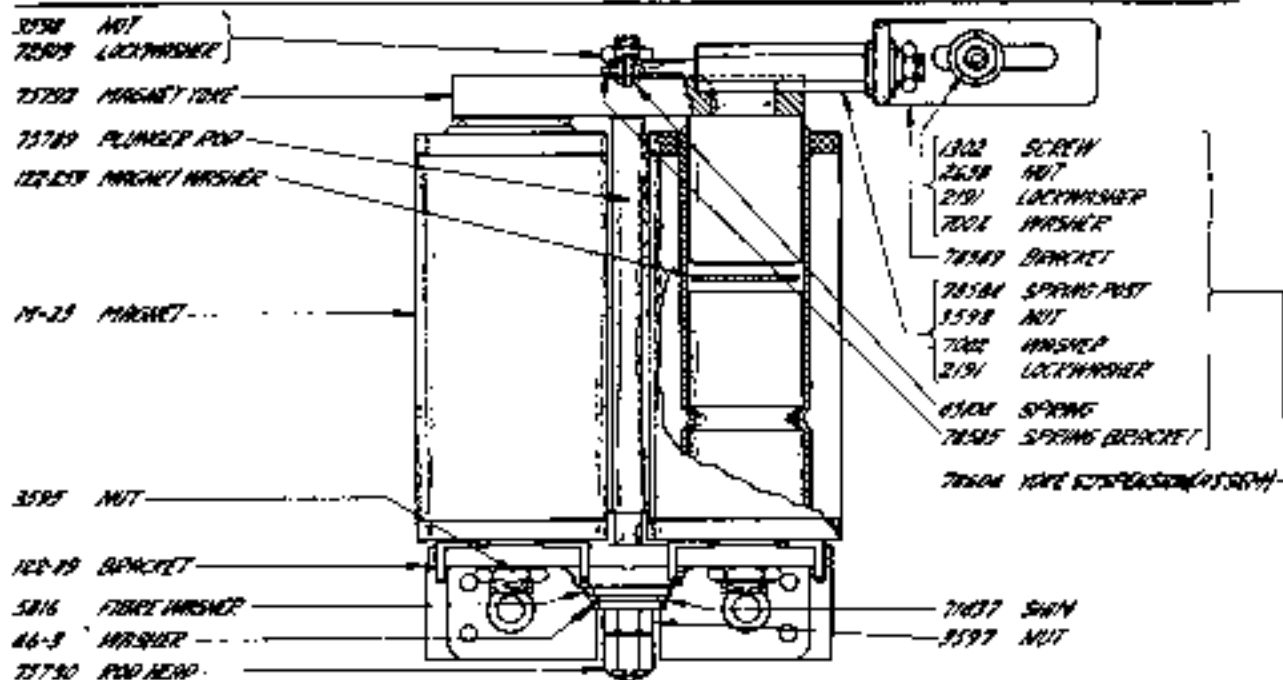
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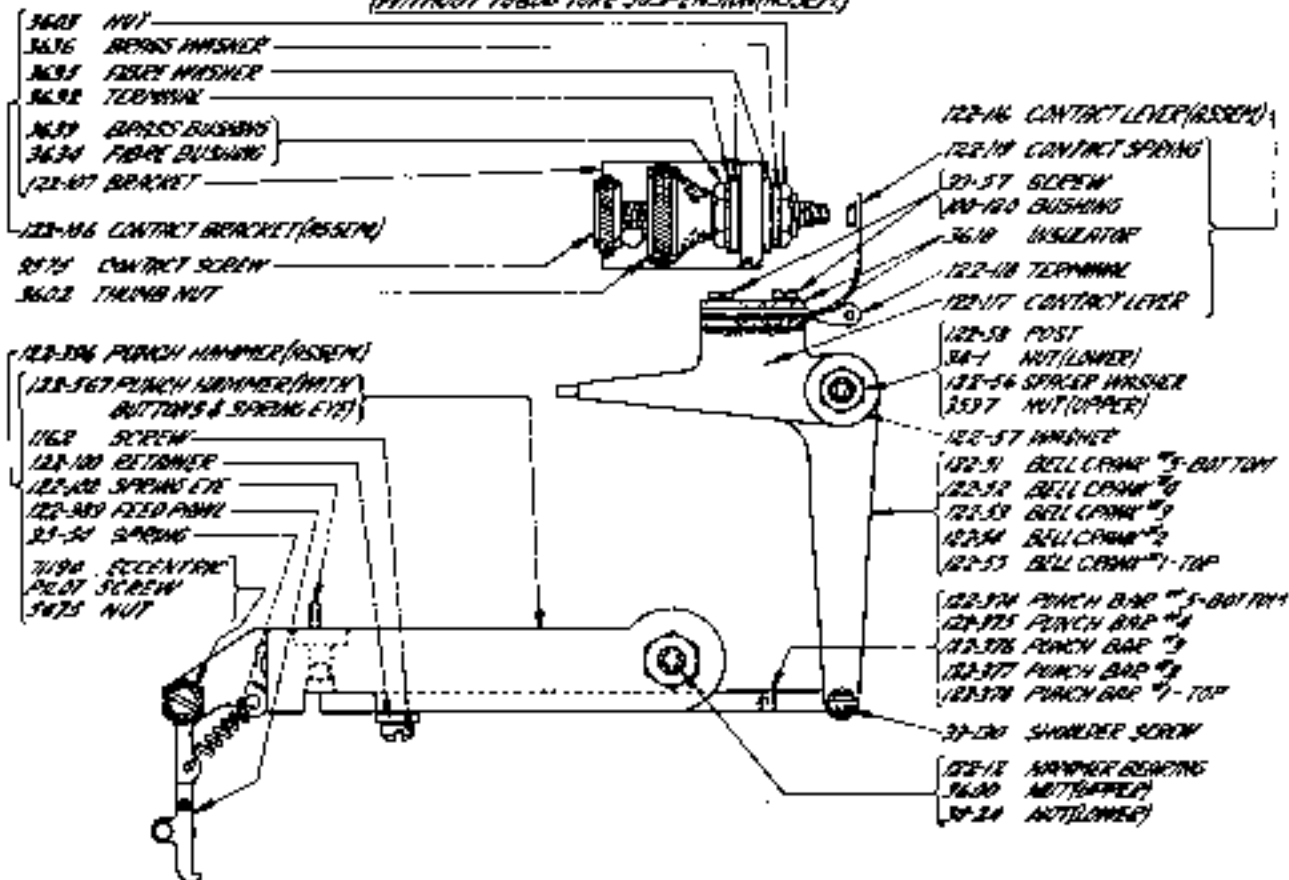




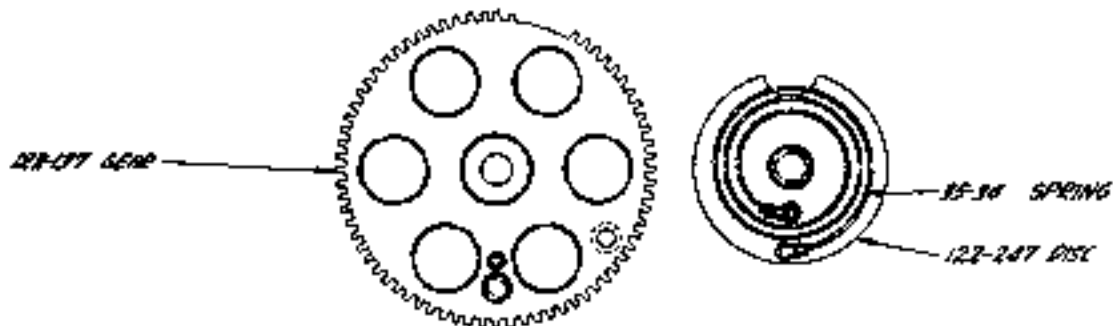
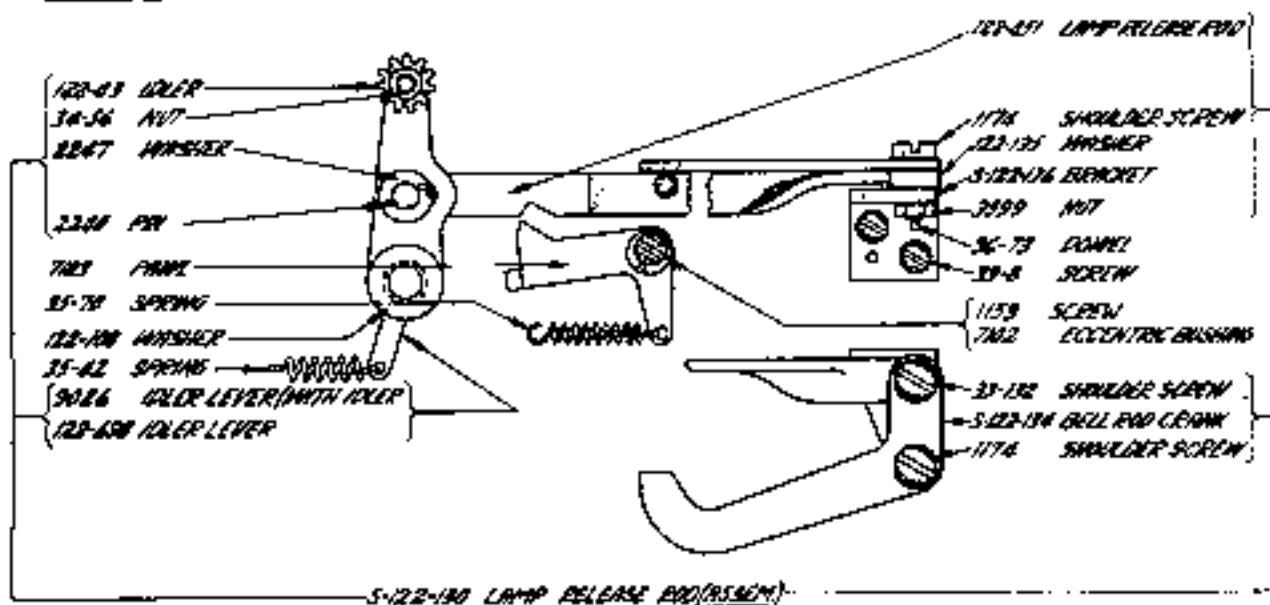




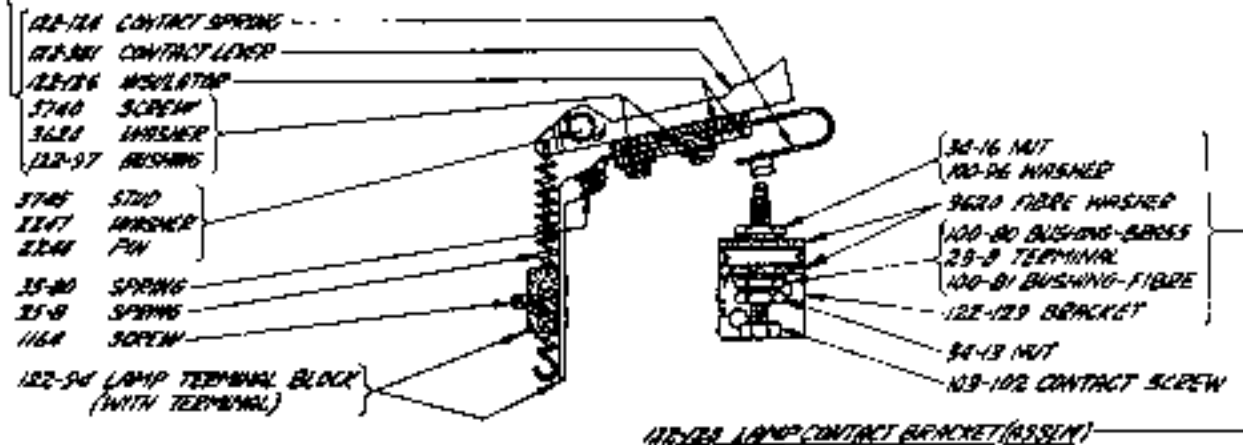
122-68 PUNCH MAGNET BRACKET (ASSEM)  
(WITHOUT 78604 YOKÉ SUSPENSION (ASSEM))

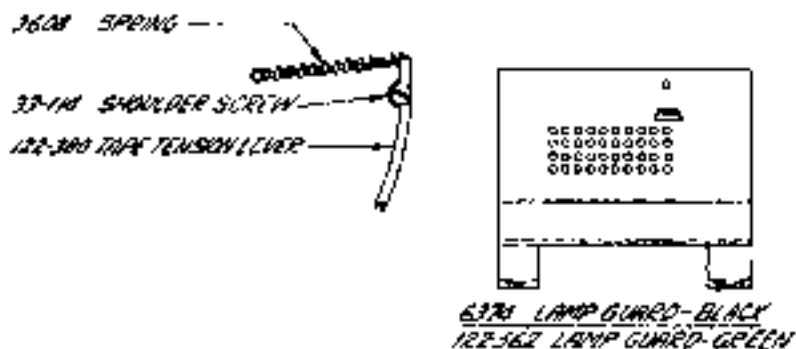
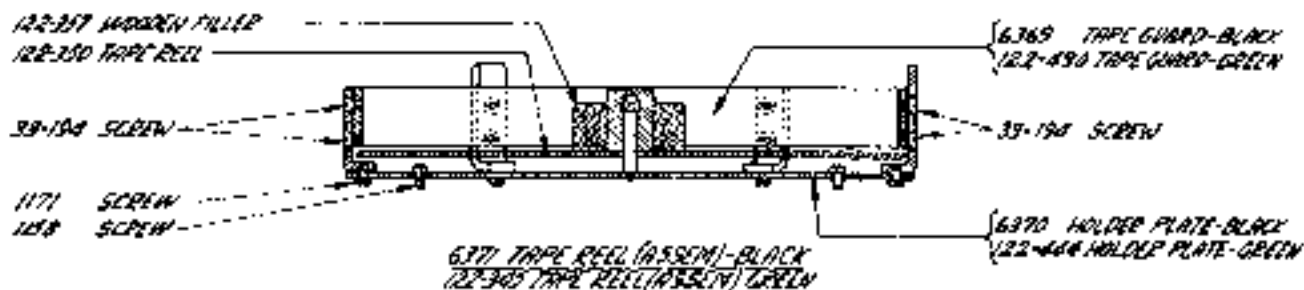
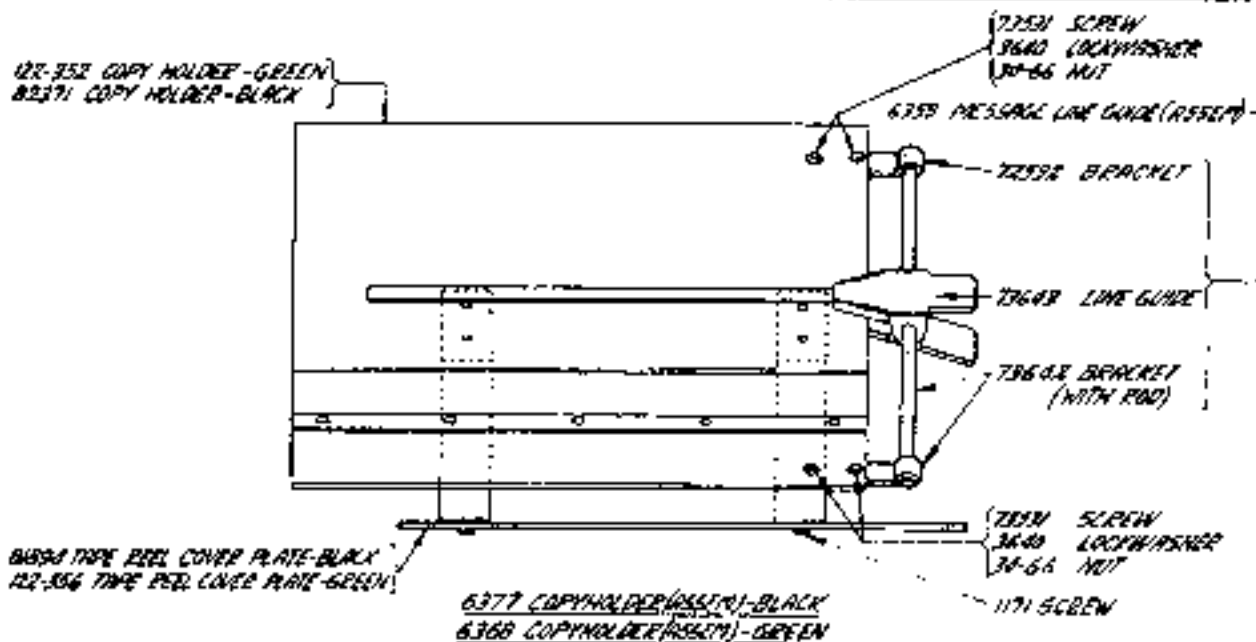






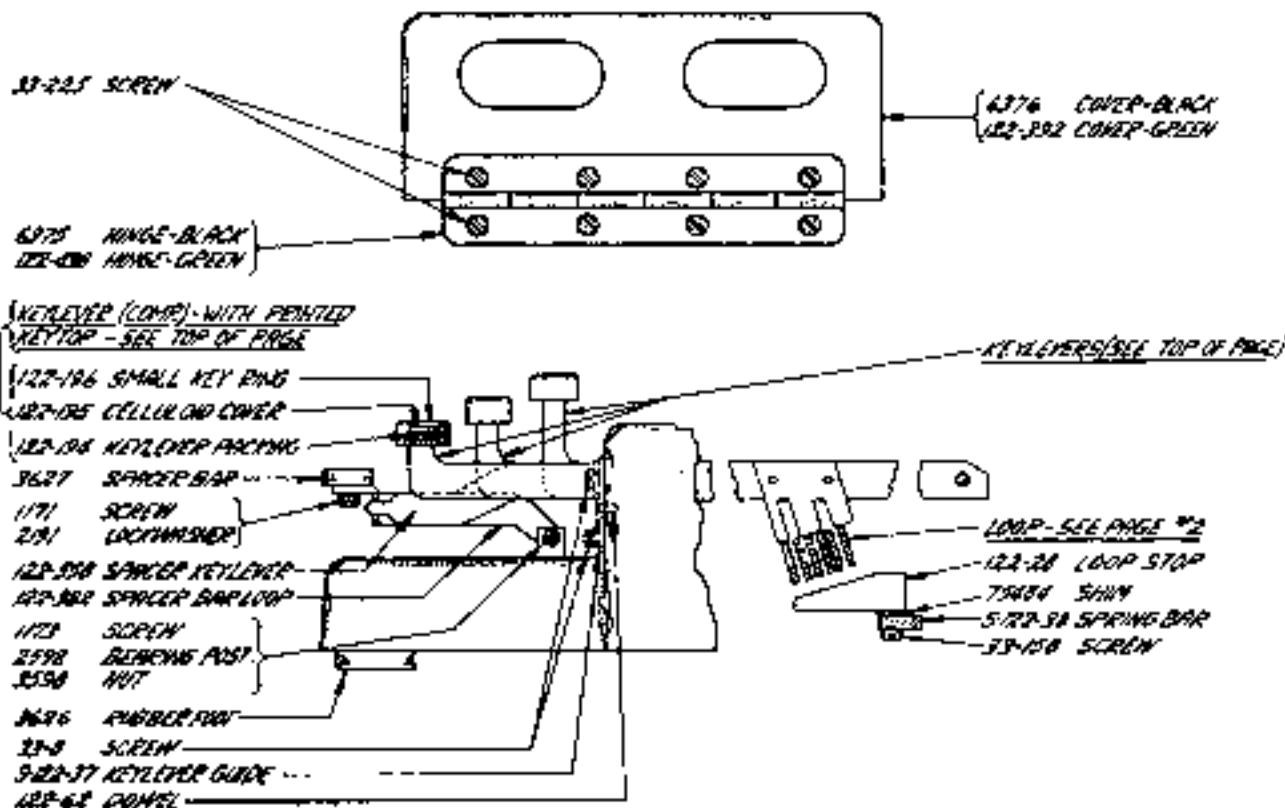
122-200 LAMP CONTACT (ASSEM.)





KEYTOP DISCRIPTION	PRINTED KEYTOP ORIGINOS NUMBER	KEYLEVER	KEYLEVER COMP WITH PRINTED KEYTOP
A -	122-459	122-596	122-528
B 7	122-460	122-597	122-529
B 7b	75801	122-597	81910
C 5	122-461	122-598	122-530
C 9	75799	122-598	81911
D 8	122-462	122-599	122-531
E 3	122-463	122-600	122-532
F 4/11	122-464	122-601	122-533
F 4	462-704	122-601	81912
F 1	122-501	122-601	81919
F 4	75795	122-601	81918
G 8	122-465	122-602	122-534
H 6	122-466	122-603	122-535
H 4	75796	122-603	81919
I 6	122-467	122-604	122-536
J 8/4	122-468	122-605	122-537
J 9	122-532	122-605	81920
K 1	122-469	122-606	122-538
K 5	75797	122-606	81920
L 1	122-470	122-607	122-539
L 2b	75798	122-607	81914
M 1	122-471	122-608	122-540
M 7b	122-707	122-608	81921
M 7	80365	122-608	81922
N 7	122-472	122-609	122-541
N 7	22-706	122-609	81923
N 7b	75802	122-609	81916
O - 5	122-473	122-610	122-542

KEYTOP DISCRIPTION	PRINTED KEYTOP ORIGINOS NUMBER	KEYLEVER	KEYLEVER COMP WITH PRINTED KEYTOP
P 0	122-474	122-611	122-543
Q 1	122-475	122-612	122-544
R 4	122-476	122-613	122-545
R 7/10	122-477	122-613	122-546
S 3/6	122-500	122-614	81924
S 7	22-716	122-614	81925
S 7	122-708	122-614	81926
S 8/11	122-710	122-614	81927
T 5	122-478	122-615	122-547
U 7	122-479	122-616	122-548
V 1	122-480	122-617	81928
V 4	75800	122-617	81917
W 3	122-481	122-618	122-549
X 1	122-482	122-619	122-551
Y 6	122-483	122-620	122-552
Z 7	122-484	122-621	122-553
Z 4	122-705	122-621	81928
- 1	122-504	122-622	81929
- 2	75792	122-623	81930
- 3	80385	122-623	81931
- 4	80387	122-623	81932
- 5	80382	122-624	81933
- 6	75793	122-624	81934
BLANK	122-485	122-625	122-554
CAR. KEY	122-486	122-626	122-555
122-102	122-475	122-626	122-556
1165	122-472	122-625	122-557
1125	122-473	122-624	122-559



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