INSTRUCTION MANUAL FOR TELETYPE MODEL 19 PAGE PRINTER SET

(Arranged for Multi-Voltage, Multi-Frequency Operation)

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DESCRIPTION OF AND INSTRUCTIONS FOR ASSEMBLING TELETYPE MODEL 19 PAGE PRINTER SET ADAPTED FOR SHIPBOARD USE

DESCRIPTION

The Teletype Model 19 set for shipboard use provides for the transmission and reception of typewritten messages over a telegraph circuit at a speed of 368 operations per minute (approximately 61 words per minute). Facilities are provided either for direct keyboard or tape transmission. All units mounted on the table, including the covers, are securely clamped in place. Resilient mounts are provided between the table and the bases of the printer and transmitter distributor to reduce vibration and severity of shocks which might be transmitted from the table to the associated units. The table legs are provided with angle iron rails to permit bolting to the deck.

COMPONENT UNITS

The Model 19 set consists of:

(1) A typing unit which includes selecting and printing mechanisms for translating electrical code impulses into typewritten copy, and mechanisms which perform such functions as spacing, line feeding and carriage return.

(2) A perforator transmitter unit arranged to operate in conjunction with associated units, as follows:

(a) Transmit direct keyboard and print a page copy.

(b) Transmit direct keyboard, print a page copy and simultaneously perforate a tape.

(c) Perforate a tape only.

(3) A motor unit, 110/115 volt 60 cycle, series governed, for supplying the motive force for operation of the typing unit and for direct keyboard transmission.

(4) A base unit for supporting the typing unit, motor unit, perforator transmitter unit and line relay, and for providing terminal connections for the various circuits. A motor control relay is also mounted on the base.

(5) A set of gears, consisting of a pinion for the motor unit and a bakelite main shaft drive gear for the typing unit.

(6) A line relay for relaying impulses from the signal line to the selector magnet of the typing unit.

(7) A sheet metal cover (lined with sound absorbing material) for enclosing the printer and perforator transmitter mechanisms. This cover is fitted with a copy holder.

(8) A transmitter distributor (with cover) for transmitting the code perforated in the tape.

(9) A metal table for supporting the complete printer set and transmitter distributor. The legs of the table are provided with angle iron rails to permit bolting to the deck.

(10) A speed indicator (tuning fork) for setting speed.

LINE CONNECTIONS

The printer set is normally wired for use on signal lines carrying .060 ampere D.C. line current, but may be operated on .020 ampere signal systems provided a wiring change indicated on wiring diagram is made. The transmitting and receiving lines are brought to separate jacks and terminal blocks on the table to facilitate connections with either neutral or polarential lines. A pair of local test jacks, complete with adjustable resistor, are also included in the electrical services of the table for convenience in operating the printer and transmitter distributor on local test. Connections between printer and table jacks are accomplished by means of a transmitting line cord with black shell plug and a receiving line cord with red shell plug.

MOTOR CONTROL

When the set is to be used in ordinary communication service, the typing unit is provided with the "upper case H" motor control feature which may be used to start and stop the motors of all machines (so equipped) on the circuit. To start and stop the motors, the "break" key and the "figures H" are operated respectively.

Printers arranged for weather report service use the "upper case" (or "figures") position of the printing type for the ten digits and necessary weather symbols, precluding the application of the "figures H" motor stop feature. For this type of service (if remote control of the motors is required) a separate line may be connected to the control relay on the printer base.

RADIO FILTERS

Filters are provided for all contacts where radio frequency induction might cause interference with radio receivers.

INSTRUCTIONS FOR ASSEMBLING

SECURING TABLE TO DECK

Locate the table so that the type bar carriage moves fore and aft, and bolt it to the deck by means of 1/2" bolts through the holes in the rails attached to the table legs.

INSTALLING PRINTER BASE AND PARTS FOR SECURING PRINTER COVER

With the vertical sections of the 104057 brackets toward the center of the table, mount these brackets in the holes provided in the left and right pad retaining channels on top of the table, using the 78301 screws, 2669 lock washers and 104059 spacer blocks furnished. The spacer blocks should be placed in the pad retaining channel at the bracket mounting screw holes.

With one 73175 lock washer on the short threaded end of each of the four 102809 studs, assemble the studs in the unmarked tapped holes in the bottom plate of the base unit (see Figure 1). Do not use the four holes marked "X".

Add three 83814 spacer washers on each of the studs just assembled and place the base unit on the table so that the studs enter the holes in the resilient mountings. Secure the base unit to the resilient mountings using the 103377 washers, 2920 lock washers and 85595 nuts.

MOUNTING THE MOTOR UNIT AND TYPING UNIT ON THE BASE UNIT

MOTOR UNIT

Mount the pinion on the motor shaft by means of the screw and lock washer already in the shaft.

Mount the motor unit on the rear right-hand corner of the base by means of three hexagonal head screws (in place on the base). Remove these three motor unit mounting screws and position the motor unit against the spring contacts. Holding the motor in this position, start the three mounting screws. Tighten the two forward screws and then back them off one-quarter turn. Do not tighten the rear mounting screw until the typing unit is in place.

TYPING UNIT

Remove the gear hub from the right end of the typing unit main shaft and assemble the printer main shaft drive gear to the hub. The screws for mounting the gear will be found in position in the hub. Replace the hub, with gear, on the main shaft of the typing unit. Two hexagonal studs are provided on the bottom of the typing unit for protecting its mechanisms from damage when the unit is being serviced on a bench, table, etc. When mounted on the base unit, these two studs enter clearance holes in the base.

To secure the typing unit to the base unit, three thumb screws are provided. Remove these screws from the base. The exact location of the typing unit on the base unit is determined by two dowel pins located on the two forward machined surfaces of the base unit. The right-hand dowel pin fits into a hole in the typing unit casting, while the left-hand dowel pin fits into a slot cut in the casting.

CAUTION: When setting the typing unit on the base unit, be very careful not to jam the bakelite main shaft gear against the motor pinion.

In lifting the typing unit, face the front of the unit. With the right hand grasp the flat projection on the typing unit right-hand casting. With the left hand grasp the extreme lower front corner of the left-hand casting. Lifting and moving should be done carefully so as not to put any part under undue strain which might throw it out of adjustment.

When setting the typing unit on the base unit, lower the left side first all the way, holding the right side so that when the left side is resting on the base unit, the main shaft gear is just ready to mesh with the motor pinion. Then with the left hand turn the motor flywheel and at the same time lower the right end of the typing unit, taking care that the motor pinion properly meshes with the main shaft gear.

Facing the front of the base, visually check the lateral alignment of the motor pinion and the main shaft gear, to determine if the center of the gear coincides with an imaginary vertical line through the center of the hole in the motor pinion. If these lines do not coincide, remove the typing unit from the base and loosen the four motor mounting screws.

Replace the typing unit on the base unit, and shift the motor to obtain the foregoing condition as nearly as it is possible to determine by eye. Make certain that the edges of the motor base are parallel to the edges of the motor plate. Then remove the typing unit and tighten the four motor mounting screws.

Loosen the rear motor plate mounting screw and the lock nut on the motor plate adjusting screw. Replace the typing unit and tighten the three typing unit mounting thumb screws. By means of the adjusting screw, adjust the vertical position of the motor pinion until there is a barely perceptible amount of backlash between the motor pinion and the main shaft gear, at the point where there is the least amount of backlash in one complete revolution of the main shaft.

IMPORTANT: Apply a film of grease to the motor pinion.

PERFORATOR TRANSMITTER UNIT

CAUTION: When sliding the perforator transmitter unit into the base unit, be very careful not to jam its bakelite gear against the steel gear with which it meshes on the main shaft of the typing unit.

The perforator transmitter unit slides into the opening in the front of the base unit on two angle irons acting as rails. The two plates, fastened under the perforator transmitter unit on the right and left-hand sides, go under the rails. The perforator transmitter unit is held in place by means of two thumb screws.

Slide the perforator transmitter unit in place slowly and, at the same time, rotate the motor flywheel back and forth to facilitate meshing of the gears. When the perforator transmitter unit is in place (in its rearmost position) tighten the two thumb screws.

TRANSMITTER DISTRIBUTOR

Place the transmitter distributor on its mounting rails on the table and slide it rearward until its base plate clears the heads of the stop screws at the forward end of the rails. From underneath the table, insert the 110422 thumb screw fitted with 2846 washer and 2322 lockwasher, upward through the transmitter distributor mounting plate and thread it into the base plate of the transmitter distributor.

TABLE AND PRINTER CONNECTIONS AND WIRING

Connect power and signal line wiring to the printer table as shown on wiring diagram W.D. 2161. Run the printer and transmission line wires from the line terminals shown on wiring diagram W.D. 2161 to a ship connection block where communication circuit connections may be made. If a separate motor control line is to be used, run two additional wires directly from terminals 51 and 56 on the printer base to the ship connection block, passing them through the hole in the top shelf of the table at the right-hand side of the base.

MOUNTING THE LINE RELAY

Loosen the mounting screws of the relay clamp brackets on the rear left corner of the printer base and spread the brackets sufficiently to permit the relay to be inserted. With the relay in position on the base, slide the clamp brackets as close as possible to the relay and tighten securely.

RIBBON AND PAPER

Install a ribbon on the printer as shown on Figure 2.

Place a paper roll on the paper spindle and feed it around the platen as shown on Figure 3.

PRINTER OPERATION

Insert the four cords of the base unit through the hole in the table top and plug the power cords into the corresponding table receptacles. Plug the two line cords into the test jacks as indicated.

Start the motor. Carefully readjust the vertical position of the motor pinion, by means of the motor unit adjusting screw, until the gear noise is reduced to a minimum.

CAUTION: Care should be exercised in adjusting the vertical position of the motor pinion while the motor is running, in order to avoid damaging the main shaft gear or reducing the speed of the motor due to binding of the gear and pinion.

Tighten the three motor plate mounting screws and the adjusting screw lock nut. Recheck the backlash between the motor pinion and the main shaft gear.

With the polar-neutral key on the keyboard in the neutral position (pulled outward) and the send-receive lever on the left side of the base in the send position (upward), the printer should be ready for test operation. When the system is ready for line operation, the line cords should be withdrawn from the local test jacks and plugged into the table line jacks on the left as indicated, and the polar-neutral key should be positioned for the type of operation intended. (See wiring diagram W.D. 2145).

ASSEMBLING AND MOUNTING THE PRINTER COVER

Mount the copyholder (packed for shipping in separate carton) on the sloping portion of the cover, below the glass window, by means of the four screws in the copyholder, with the wooden spacing strip between the copyholder and the cover.

Place the printer cover over the printer and secure it to the brackets on the table by means of thumb screws in either side of the cover.

For dimensions of complete Model 19 printer set, see Figure 4.

Attached to this specification are Figures 1 to 4, inclusive.

* * *

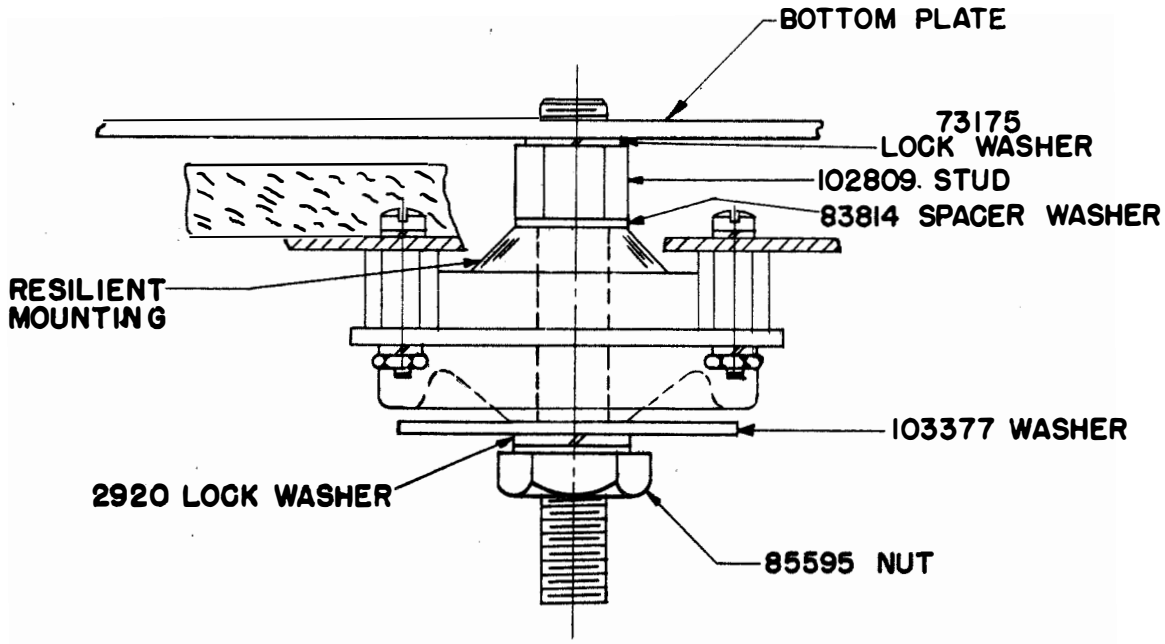


FIGURE 1

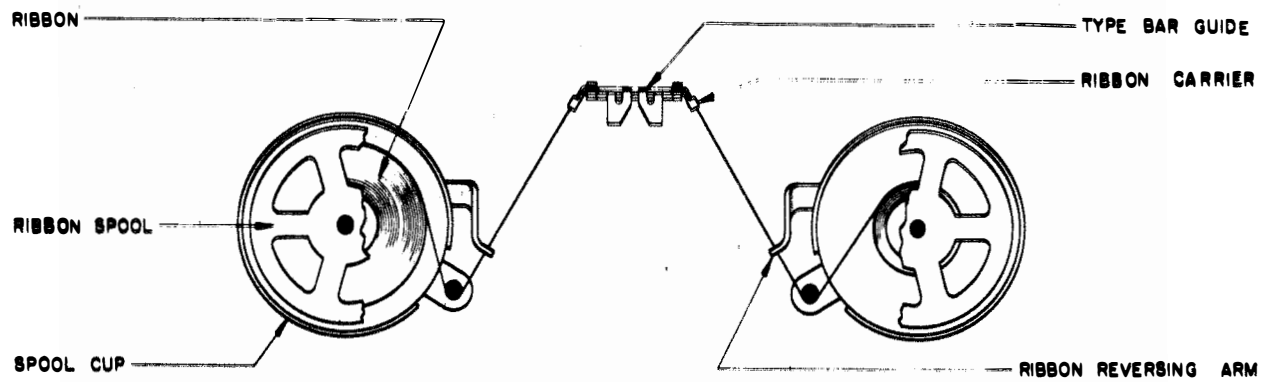


FIGURE 2

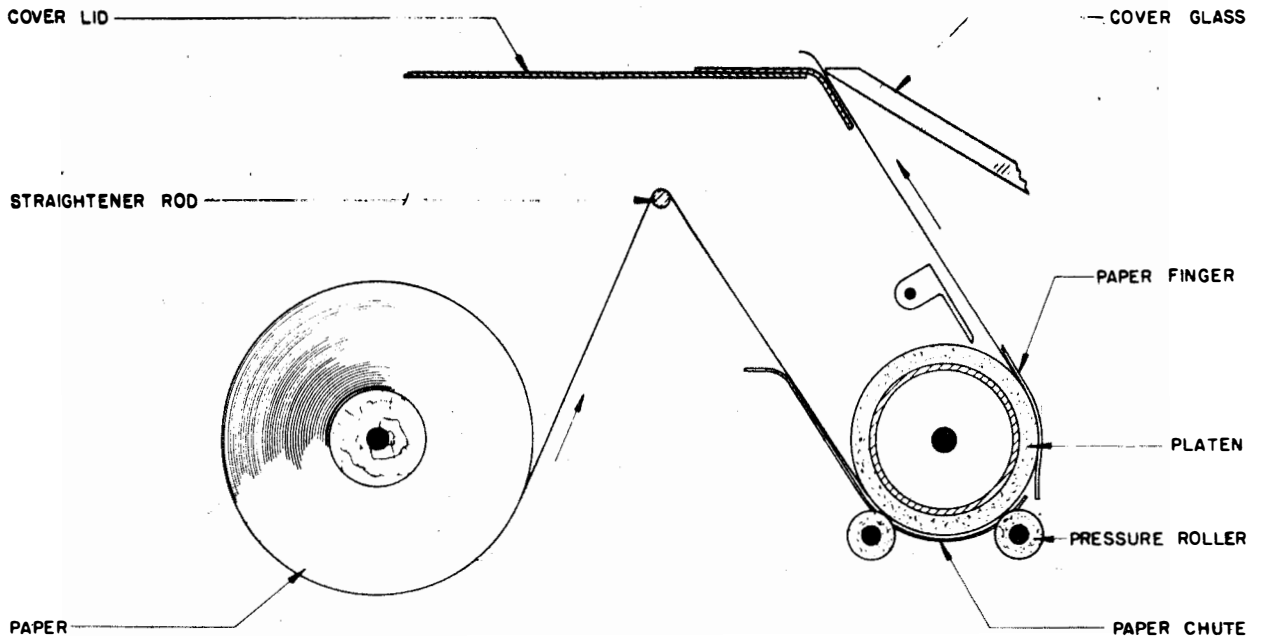


FIGURE 3

S-5475

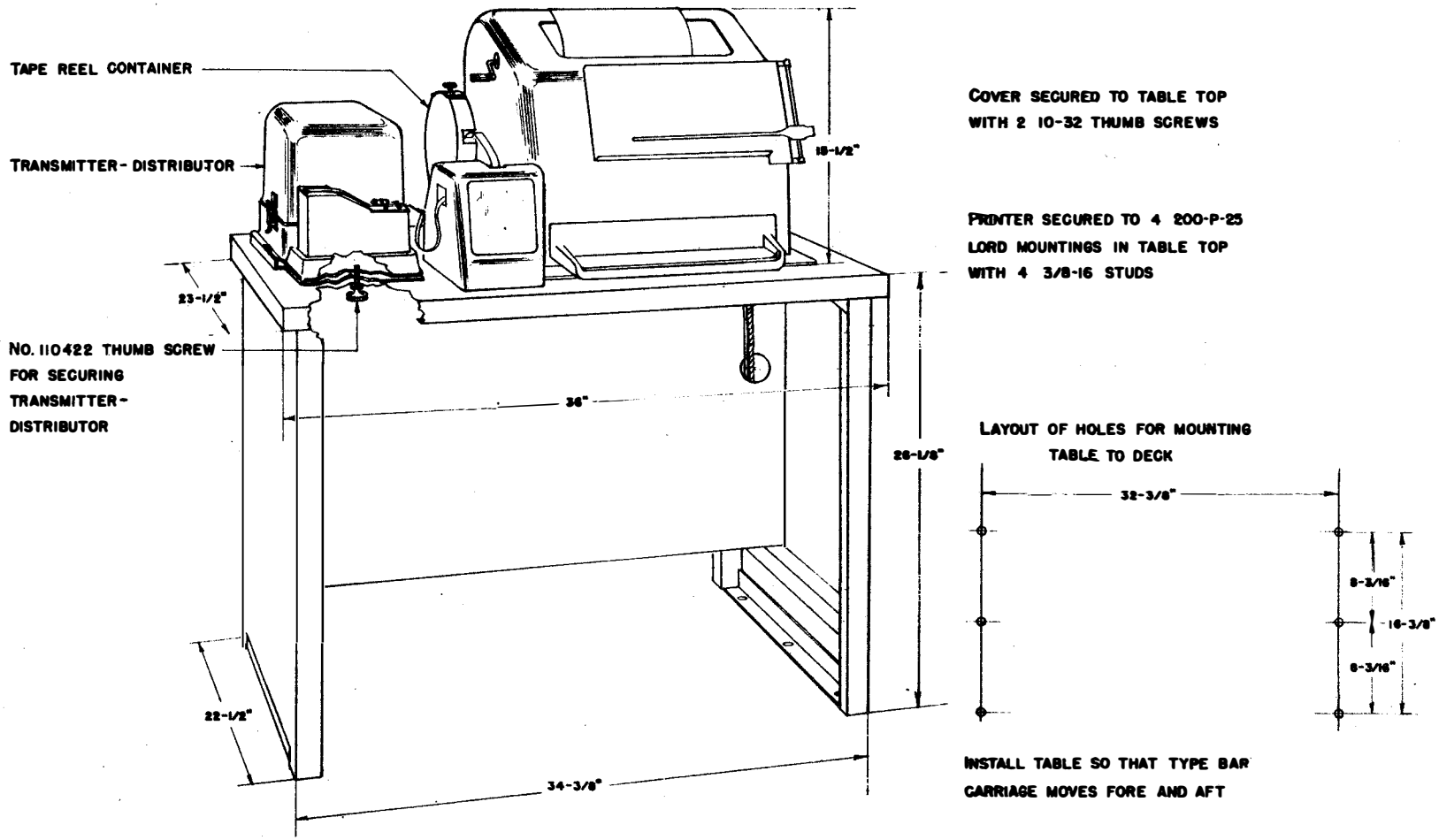


FIGURE 4

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

Correction Sheet 737EE
Issue 1
February, 1951

ADDITIONS TO BULLETINS

127, Issue 3, Adjustments - Model 14 Printer, Page 23
138, Issue 5, Adjustments - Typebar Page Printer (Model 15), Page 46
147, Issue 2, Adjustments - Non-Typing Reperforator, Page 8
155, Issue 1, Description and Adjustments - Start-Stop Regenerative Repeater, Page 9
159, Issue 2, Adjustments - Type Wheel Page Printer (Model 26), Page 29
160, Issue 1, Adjustments - Typebar Page Printer (Model 20), Page 34
165, Issue 3, Adjustments - Typing Reperforator (Model 14), Page 2-18
171, Issue 2, Adjustments - Typing Reperforator (Model 14), Page 21
178, Issue 1, Adjustments - Reperforator Transmitter (Model 14), Page 49
193, Issue 1, Adjustments - Model 14 Reperforator Transmitter, Page 35
201, Issue 1, Teletype Sequential Control (SECO) System, Page 5-8
203, Issue 1, Adjustments - Reperforator Transmitter (Model 14), Page 2-25
204, Issue 1, Description and Adjustments - Sequential Selector, Page 3-9

1. This correction sheet supersedes EE-661 dated August, 1949, and applies to all bulletins listed above.

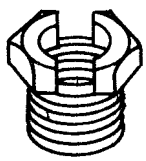
2. Add the information contained in paragraphs 3 and 4 below to the SELECTOR CLUTCH TORQUE requirement.

3. A more convenient method of regulating the selector clutch torque has been devised by the substitution of a 119540 keyed nut, a 122974 capstan nut, and a 122838 spacer for the 72515 nut and 72517 keyed nut on the main shaft. Where these new parts are present, the torque may be regulated by positioning the capstan nut in the proper direction with a screwdriver.

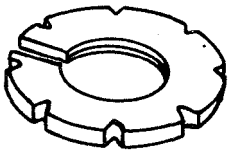
NOTE: The 122974 capstan nut is split and the open ends are offset to insure a tight fit on the 119540 slotted nut. To install the capstan nut the offset ends must be held approximately in line by using a pair of pliers or a clamp. The slotted nut can then be screwed into place. To regulate the selector torque the capstan nut may be positioned with a screwdriver. To prevent the capstan nut from being turned downward against the bearing, the 122838 spacer should be installed between the 119540 slotted nut and the bearing.

4. On units equipped with the 72515 nut and 72517 keyed nut, the selector clutch torque may be adjusted by the use of shims which may be placed between the clutch spring and the 72515 nut. The selector clutch spring must be removed from the shaft in order to apply the shims. Shims are available under the following numbers:

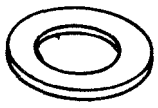
96763 Shim (.012" thick)
96764 Shim (.016" thick)
96765 Shim (.020" thick)



119540 NUT, KEYED



122974 NUT, CAPSTAN



122838 SPACER

Teletype Corporation
Chicago, Illinois U.S.A.

ADDITION TO BULLETIN 138, ISSUE 5 ADJUSTMENTS TYPE BAR PAGE PRINTER MODEL 15

For special features of BP99 and BP105 typing units, the following adjustments apply:

1. SIGNAL BELL HAMMER BACKSTOP SCREW ADJUSTMENT

With the bell latch bar in its latched position there should be .020" to .040" clearance between the bell hammer extension and the bell operating lever. To adjust, position the signal bell hammer backstop screw.

2. FIGURES CONTACT AND BELL HAMMER BACKSTOP BRACKET ADJUSTMENT

Position the contact and backstop bracket by means of its mounting screws to provide at least .015" clearance between the bracket and the spacing shaft, and so that the shift push bar engages the contact operating lever at approximately the center of the engaging section of the contact lever.

3. FIGURES CONTACT ADJUSTMENT

a. FIGURES CONTACT ASSEMBLY ADJUSTMENT

Select the figures combination and rotate the main shaft until the figures contact operating lever just touches the bakelite extension on the long figures contact spring. The lobe on the contact operating lever should contact the bakelite extension approximately in the center. To adjust, position the contact assembly by means of its mounting screws.

NOTE

Make certain that the lobe of the contact operating lever stays within 1/16" of the edge of the bakelite extension when the contact lever is fully operated.

b. UPPER FIGURES CONTACT SPRING ADJUSTMENT

With the blank combination fully selected, there should be from .005" to .010" clearance between the bakelite extension of the upper contact spring and the lobe on the figures contact operating lever. To adjust, bend the upper contact spring.

c. LOWER FIGURES CONTACT SPRING ADJUSTMENT

Hook an 8 oz. scale at the contact point of the lower contact spring. It should require from 2 to 3 ozs. to stast the spring moving away from its stiffener. To adjust, bend the lower contact spring.

67243 63

d. FIGURES CONTACT GAP ADJUSTMENT

When the printing bail is in its extreme rear position, there should be from .020" to .025" clearance between the contact points. To adjust, bend the lower contact spring stiffener.

e. Recheck adjustment c.

4. "H" CONTACT ADJUSTMENT

a. LONG CONTACT SPRING POSITION ADJUSTMENT

Apply the push end of an 8 oz. scale to the bakelite tip on the long contact spring. It should require from 1/2 to 1-1/2 ozs. to start the spring moving away from its stiffener. To adjust, bend the long contact spring.

c. CONTACT GAP ADJUSTMENT

There should be from .015" to .020" clearance between the contact points of the long and short contact springs. To adjust, bend the short contact spring stiffener.

d. SHORT CONTACT SPRING ADJUSTMENT

Hook an 8 oz. scale over the end of the short contact spring at the contact point. It should require from 2 to 3 ozs. to start the short contact spring moving away from its stiffener. To adjust, bend the short contact spring.

e. Recheck adjustment c.

5. UNIVERSAL SWITCHING CONTACT ADJUSTMENT

NOTE

Contact springs are numbered 1, 2, 3, 4 and 2 counting in from the head of the pile-up mounting screws.

a. NO. 4 UNIVERSAL CONTACT SPRING STIFFENER ADJUSTMENT

Rotate the main shaft until the printing bail is in its extreme forward position. There should be a clearance of .005" to .010" between the No. 4 contact spring and the end of its stiffener. To adjust, bend the contact spring stiffener.

b. CONTACT GAP ADJUSTMENT BETWEEN NO 4 AND NO. 5 CONTACT SPRINGS

Rotate the main shaft until the printing bail is in its extreme rear position. There should be from .015" to .020" gap between the contact points on the No. 4 and No. 5 contact springs. To adjust, bend the No. 5 contact spring.

c. NO. 4 CONTACT SPRING ADJUSTMENT

With an 8 oz. scale hooked over the end of the No. 4 contact spring at the contact point, it should require from 2 to 3 ozs. to just start the contact spring moving away from its stiffener. To adjust, bend the No. 4 contact spring.

d. NO. 3 CONTACT SPRING STIFFENER ADJUSTMENT

There should be some clearance, not more than .008", between the bakelite extension on the No. 2 contact spring and the No. 5 contact spring. To adjust, bend the No. 3 contact spring stiffener.

e. NO. 3 CONTACT SPRING ADJUSTMENT

With a printing selection set up in the vanes and the printing bail in its forward (unblocked) position, hook an 8 oz. scale over the end of the No. 3 contact spring at the contact point. It should require from 3 to 4 ozs. to just start the contact spring moving away from its stiffener. To adjust, bend the No. 3 contact spring.

f. NO. 2 CONTACT SPRING ADJUSTMENT

With the printing bail in its rear position, hook an 8 oz. scale over the end of No. 2 contact spring at the contact point. It should require from 2 to 3 ozs. to just open the contacts between No. 2 and No. 3 contact springs. To adjust, bend the No. 2 contact spring.

g. CONTACT GAP ADJUSTMENT BETWEEN NO. 1 AND NO. 2 CONTACT SPRINGS

There should be from .010" to .015" gap between the contact points of No. 1 and No. 2 contact springs. To adjust, bend the No. 1 contact spring stiffener.

h. NO. 1 CONTACT SPRING ADJUSTMENT

Hook an 8 oz. scale over the No. 1 contact spring at the contact point. It should require from 2 to 3 ozs. to just start the contact spring moving away from its stiffener. To adjust, bend the No. 1 contact spring.

i. UNIVERSAL CONTACT OPERATING LEVER ADJUSTMENT

With the upper case "H" combination selected and the main shaft rotated slowly until the upper case "H" contacts just close, there should be from .020" to .025" clearance between the engaging surface of the contact operating lever and the bakelite cam on the No. 5 contact spring. To adjust, position the contact operating lever by means of its clamping screws.

j. Replace the universal contact assembly cover.

k. TWO-COLOR RIBBON CONTROL MECHANISM

For adjusting and lubrication information see Teletype Correction Sheet EE-425.

m. ELECTRICAL WORD AND OPERATIONS COUNTER MECHANISM

For installation and adjusting information see Teletype Specification S-5196.

n. ANTI SPIN DEVICE ON PULLING MAGNET SELECTORS OPERATING AT 368 O.P.M.

For installation and adjusting information see Teletype Specification S-5577.

o. TABULATING INDICATOR (SCALE AND POINTER) MECHANISM

For installation and adjusting information see Teletype Specification S-5071.

p. MODEL 15 TYPING UNITS EQUIPPED WITH 32 TYPE BARS AND A TRANSMISSION SUPPRESSION MECHANISM - BP153

For adjusting and lubrication information see Teletype Specification S-5599.

6. "H" FUNCTION LEVER SPRING TENSION (FUNCTION LEVER IN SLOT NO. 13)

With the function lever resting against the rear edges of the vanes but not in selection, hook a 32 oz. scale under the extreme front end of the lever at the bend and pull at right angle to the lever toward the top of the printer. It should require from 24 to 32 ozs. to start the lever moving.

7. UPPER CASE "H" FUNCTION LEVER SPRING TENSION (FUNCTION LEVER IN SLOT NO. 6)

With the printing bail in its extreme rear position, unhook the function lever spring from the spring plate. Hook a 64 oz. scale in the spring eye and pull horizontally away from the typing unit. It should require from 40 to 50 ozs. to pull the spring to position length. Rehook the spring.

8. FIGURES CONTACT OPERATING LEVER SPRING TENSION

Rotate the main shaft until the printing bail is in its extreme rear position. Hook an 8 oz. scale over the spring post in the figures contact operating lever and pull horizontally toward the rear of the typing unit. It should require from 5 to 7 ozs. to just start the figures contact operating lever moving.

9. UNIVERSAL CONTACT OPERATING LEVER SPRING TENSION

Rotate the main shaft until the printing bail is in its extreme rear position. Unhook the contact operating lever spring from the contact spring bracket. Hook a 32 oz. scale in the end of the spring. It should require down 22 to 26 ozs. to pull the spring to position length. Rehook the spring.

10. LUBRICATION

Apply grease to the following points:

a. Engagement of figures contact operating lever with shift push bar.

b. Figures contact operating lever pivot.

c. Engagement of figures contact operating lever with bakelite extension on upper contact spring.

d. Bakelite cam on No. 5 universal contact spring at engagement with contact operating lever.

e. Engagement of upper case "H" function lever with bakelite tip on long upper case "H" contact spring.

* * *

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

EE-689
Issue 1
February, 1950

CHANGES IN BULLETIN 138 (ISSUE 5) ADJUSTMENTS - TYPE BAR PAGE PRINTER MODEL 15 AND BULLETIN 160, (ISSUE 1) ADJUSTMENTS - TYPE BAR PAGE PRINTER MODEL 20

BULLETIN 138, Page 7
BULLETIN 160, Page 5

RIBBON REVERSE SHAFTS LINKS ADJUSTMENT

Change the requirement to read .015" to .050" instead of .015" to .040".

BULLETIN 138. Page 11
BULLETIN 160,,Page 8

CARRIAGE SUPPORT AND PULL BAR BAIL PLUNGER ROLLERS ADJUSTMENT

Change the requirements to read, with a barely perceptible amount of end play, instead of without end play.

BULLETIN 138, Page 32
BULLETIN 160, Page 22

LINE FEED CHECK LEVER ADJUSTMENT

Change the requirement to read, not more than .008" end play, instead of not more than .004".

BULLETIN 138, Page 37
BULLETIN 160, Page 26

CARRIAGE RETURN LOCK BAR LATCH ECCENTRIC SCREW ADJUSTMENT

Change the requirement in this adjustment to read .006" to .020" instead of .006" to .015".

Change correspomding figures accordingly.

* * * * *

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

EE-695
Issue 1
February, 1950

ADDITION TO ADJUSTMENT BULLETINS

Bulletin 127, Issue 3 - Type Bar Tape Printer (Model 14), Pages 7, 13
Bulletin 138, Issue 5 - Type Bar Page Printer (Model 15), Pages 21, 26
Bulletin 147, Issue 2 - Single Magnet Reperforator, Page 6
Bulletin 155, Issue 1 - Start-Stop Regenerative Repeater, Page 8
Bulletin 159, Issue 2 - Type Wheel Page Printer (Model 26), Page 6
Bulletin 160, Issue 1 - Type Bar Page Printer (Model 20), Page 16
Bulletin 165, Issue 3 - Typing Reperforator (Model 14), Pages 2-5, 2-8
Bulletin 171, Issue 2 - Typing Reperforator, Page 7
Bulletin 178, Issue 1 - Reperforator Transmitter Distributor, Page 9
Bulletin 182, Issue 1 - Multiplex Start-Stop Extensor Set, Page 17
Bulletin 193, Issue 1 - Reperforator Transmitter Distributor (Model 14), Page 8
Bulletin 197, Issue 1 - Multiple Reperforator Set. Page 16
Bulletin 198, Issue 1 - Type-Wheel Page Printer (Model 27), Page 18
Bulletin 199, Issue 1 - Simplex-Diplex Converter, Page 2-4
Bulletin 201, Issue 1 - Sequential Control (SECO) System, Page 5-5
Bulletin 203, Issue 1 - Reperforator Transmitter (Model 14), Page 2-5
Bulletin 204, Issue 1 - Sequential Selector (SOTUS), Page 3-6

The following adjustment applies to units equipped with the Adjustable Range Scale Assembly which permits regulation of the engagement between the stop arm on the selector cam sleeve and the stop lever on the range finder. The adjustment should be made immediately after the STOP LEVER SPRING TENSION ADJUSTMENT; bulletins and affected pages are listed above.

SELECTOR STOPARM AND STOP LEVER ENGAGEMENT ADJUSTMENT

With the selector magnet armature in the spacing position, rotate the selector cam sleeve until the stop arm moves the stop lever to its maximum travel beyond the step of the trip latch. Loosen the range scale assembly mounting screws and the positioning link mounting screw just enough to make them friction tight. Position the range scale assembly so that the overtravel of the stop lever beyond the trip latch is at least half but not more than the width of the stop lever. This should be checked with the range indicator set at 0, 60, and 120 on the range scale. Tighten the mounting screws and the positioning link screw.

* * *

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

EE-681
Issue 1
August, 1949

ADDITION TO BULLETIN 138, ISSUE 5
ADJUSTMENT - TYPE BAR PAGE PRINTER
MODEL 15

PAGE 30

PLATEN BALANCE SPRING TENSION

Change the second sentence to read as follows: It should require 3-1/2 to 5 lbs. to pull the spring to position length on units equipped with cast iron platen brackets: 1-1/4 to 2 lbs. on units equipped with aluminum platen brackets.

* * *

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

EE-656
Issue 1
November, 1948

ADDITION TO BULLETIN 138, (ISSUE 5) ADJUSTMENTS - TYPEBAR PAGE PRINTER MODEL 15

PAGE 41

SEND-RECEIVE T LEVER FRICTION WASHER (Figure 65A)

Add the following immediately after this adjustment:

To adjust, replace friction washer with a new one.

NOTE: On units equipped with the send-receive-break mechanism operating on a double blank signal, the friction requirement of 5 to 6-1/2 ozs. may be obtained by adjusting the position of the stop nut when the send-receive "T" lever is equipped with the 119925 elastic stop nut and 71047 shim in place of the 3598 nut and 2191 lock washer previously furnished.

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

EE-631
Issue 1
April, 1948

CHANGE IN BULLETIN 138, ISSUE 5 ADJUSTMENTS - TYPE BAR PAGE PRINTER (MODEL 15) AND BULLETIN 160, ISSUE 1 ADJUSTMENTS - TYPE BAR PAGE PRINTER (MODEL 20)

Bulletin 138, Page 5 (Figures 6 and 7)
Bulletin 160, Page 3 (Figures 5 and 6)

RIBBON FEED SHAFT BEARING PLATES ADJUSTMENT

Change the first sentence of this adjustment to read as follows:

"The left end of the ribbon feed shaft should be flush with or extend not more than .015" over the inner end of the left vertical feed shaft bevel gear teeth, when the ribbon feed shaft is in its left position and the left vertical feed shaft bevel gear is held in engagement with the ribbon shaft gear."

Add the following note after the adjustment:

NOTE: Check the lateral movement of the ribbon feed shaft (movement from one detented position to the other); it should measure at least 3/16". If necessary, refine the ribbon feed shaft bearing plates adjustment.

* * *

CHANGES IN
BULLETIN 138 (ISSUE 2)
ADJUSTMENTS - TYPE BAR
PAGE PRINTER MODEL 15
AND
BULLETIN 160 (ISSUE 1)
ADJUSTMENTS - TYPE BAR
PAGE PRINTER MODEL 20

BULLETIN 138, PAGE 55
BULLETIN 160, PAGE 47

ADJUSTMENTS OF SEND-RECEIVE-BREAK MECHANISM HAVING SINGLE UPPER CONTACT

SEND-RECEIVE-BREAK CONTACT SPRINGS ADJUSTMENT

Change Paragraph (B) - (1) and (2); (Paragraph (B) - (a) and (b) in Bulletin 160) to read as follows:

(1) With the left end of the upper contact lever held against the top of the notch in the safety pawl, there should be at least .008" clearance between the fibre insulator on the No. 6 contact spring and the extension on the upper contact lever. Make certain that contacts No. 5 and No. 6 are separated by at least .015" when the break lever is operated. Adjust by bending contact spring No. 5.

(2) Contact No. 6 should exert a pressure on contact No. 5. Hook an 8 oz. scale around contact spring No. 6 just above the contact point and pull horizontally to the right. It should require 4-1/2 to 5-1/2 ozs. to just open the contacts. Adjust by bending contact spring No. 6. Recheck (1).

REFER TO FIGURES INDICATED IN RESPECTIVE BULLETINS.

BULLETIN 138, PAGE 56
BULLETIN 160, PAGE 48

ADJUSTMENTS OF SEND-RECEIVE-BREAK MECHANISM HAVING TWO UPPER CONTACTS

SEND-RECEIVE-BREAK CONTACT SPRINGS ADJUSTMENT

Change this adjustment to read as follows:

Viewing the base from the front, the send-receive-break contact springs are numbered 1, 2, 3, 4, 5, and 6 from left to right.

(A) Move the send-receive lever to the SEND position (up).

(1) All contact springs and points should be in line.

(2) There should be some clearance, not more than .008" between the fibre insulator on the lower end of No. 1 contact spring and the extension on the lower contact lever to the right of it.

When checking this clearance, the lower contact lever should be held firmly against its top. Adjust by bending contact spring No. 2.

(3) Contact No. 1 should exert a pressure against contact No. 2. Hook an 8 oz. scale around contact spring No. 1, just below the contact point, and pull horizontally toward the left. It should require 1 to 2 ozs. to just separate contacts No. 1 and No. 2. Adjust by bending contact spring No. 1. Recheck (2).

(4) All the clearance requirements, pertaining to contact springs No. 3 to No. 6 inclusive, given in the following paragraphs will most always be met if these 3 preliminary requirements are met:

(a) The stiffeners for contact springs No. 4 and No. 5 should be straight.

(b) Contact springs No. 4 and No. 5 should rest against their respective stiffeners with perceptible tension. There should be no gaps between the ends of the stiffeners and the contact springs when the contacts are open. However, a gap or not more than .004" will be permissable at any other point.

(c) With the send-receive lever in the RECEIVE position (down), the extension on the upper contact lever should be approximately midway between imaginary lines extending up from contact springs No. 4 and 5. If necessary, bend the extension on which the double contact springs are mounted to meet this requirement. It will be permissable to vary this requirement if necessary, in cases where the clearance requirements given in the following paragraphs cannot be met.

(5) With the send-receive lever in the SEND position (up), there should be a clearance of at least .015" between No. 3 and No. 4 contacts. If necessary to adjust, see (4).

(6) Move the send-receive lever to the RECEIVE position (down) and make sure that No. 3 and No. 4 contacts close.

(7) There should be at least .015" clearance between No. 1 and No. 2 contacts. Adjust by bending contact spring No. 2. Recheck (2).

(8) Contact No. 3 should exert a pressure against contact No. 4. Hook an 8 oz. scale around contact spring No. 3 just above the contact point and pull horizontally toward the left. It should require 1 to 2 ozs. to just separate contacts No. 3 and No. 4. Adjust by bending contact spring No. 3. Recheck (5).

(9) With the left end of the upper contact lever held against the stop lug on the stop lever plate, there should be at least .008" clearance between the fibre insulator on No. 6 contact spring and the extension on the upper contact lever. Make certain that contacts No. 5 and No. 6 are separated by at least .015" when the break lever is operated. If necessary to adjust, see (4).

(10) Contact No. 6 should exert a pressure against contact No. 5. Hook an 8 oz. scale around contact spring No. 6 just above the contact point and pull horizontally toward the right. It should require 4-1/2 to 5-1/2 ozs. to just separate contacts No. 5 and No. 6. Adjust by bending contact spring No. 6. Recheck (9).

* * *

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

EE-607
Issue 1
March, 1948

ADDITION TO BULLETINS

Bulletin 127, Issue 3, Type Bar Tape Printer (Model 14), Page 36
Bulletin 137, Issue 2, Typewheel Tape Printer (Ticker), Page 29
Bulletin 138, Issue 5, Type Bar Page Printer (Model 15), Page 50
Bulletin 141, Issue 3, Transmitter, Page 18
Bulletin 147, Issue 2, Single Magnet Reperforator, Page 14
Bulletin 159, Issue 2, Typewheel Page Printer (Model 26), Page 36
Bulletin 160, Issue 1, Type Bar Printer (Model 20), Page 38
Bulletin 170, Issue 1, Multiple Transmitter Distributor and Base, Page 9
Bulletin 171, Issue 2, Typing Reperforator, Page 22
Bulletin 175, Issue 1, Single Unit Transmitter and Base, Page 8
Bulletin 176, Issue 1, Translator Unit, Receiving Distributor and Pane, Page 38
Bulletin 178, Issue 1, Reperforator Transmitter Distributor, Page 46
Bulletin 182, Issue 1, Multiplex, Start-Stop Extensor Set, Page 22
Bulletin 183, Issue 1, Portable Signal Distortion Test Set, Page 5
Bulletin 185, Issue 1, Multiple Transmitter Distributors and Base, Page 12
Bulletin 186, Issue 1, Two Channel Start-Stop Transmitter Distributor, Page 20
Bulletin 189, Issue 1, XD79 and XD95 Distributors, Page 15
Bulletin 192, Issue 1, Teletype Automatic Wheatstone Perforator Set, Page 19
Bulletin 193, Issue 1, Reperforator Transmitter Distributor (Model 14), Page 39
Bulletin 197, Issue 1, Multiple Reperforator Set, Page 25

Add the following adjustment immediately preceding the "SPEED ADJUSTING WHEEL FRICTION WASHER SPRING TENSION ADJUSTMENT":

ADJUSTMENTS FOR ALIGNMENT AND SQUARENESS OF GOVERNOR CONTACTS

All governor contacts can be adjusted for alignment of edges; only those governor shells which provide elongated mounting holes for the fixed contact bracket permit adjustment of the contact for height by positioning the contact bracket.

The governor contacts should be in line and meet squarely so that maximum contact surface is provided. (Check with the retractile spring tension adjusted so that the contacts just make, or the limit of the adjusting screw).

(a) Line up edges of contacts by means of the floating contact hinge mounting screw.

(b) Adjust contacts for squareness from right to left by positioning the height of the fixed contact bracket using the elongated mounting holes in the governor shell.

(c) To adjust from front to back, twist the floating contact hinge, applying pressure to the arm near the contact.

NOTE: Check by use of a .002" gauge (smaller if available). Check with gauge between edges of contacts to see that the gauge enters (or does not enter) equally on all sides.

* * * *

Printed in U.S.A.

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

EE-605
Issue 1
October, 1947

CHANGES IN BULLETIN 138, ISSUE 5 ADJUSTMENTS - TYPE BAR PAGE PRINTER (MODEL 15)

To facilitate adjustment of the right motor stop contact

Page 42

RIGHT MOTOR STOP CONTACT ADJUSTMENT (Figures 35 and 36)

Substitute the following for the last sentence in the first paragraph:

"To adjust, position the right contact spring bracket by means of its mounting holes so that the contact spring mounting surface of the bracket is approximately parallel to the top edge of the send-receive mechanism plate. Then bend the light contact spring, if necessary, to obtain the required clearance. Make certain that the heavy contact spring does not bear against the light spring."

* * *

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

EE-597
Issue 1
August, 1947

CHANGES IN BULLETINS 148 AND 166 (ISSUE 2) DESCRIPTION AND ADJUSTMENTS PERFORATOR TRANSMITTER (MODEL 15)

PAGE 11, Bulletin 148

TRANSMITTING CONTACT SPRING ADJUSTMENTS (Figure 15)

Add the following requirement to this adjustment:

"START-STOP contact gap may be .015" to .025".

PAGE 17, Bulletin 148
PAGE 18, Bulletin 166

TAPE TENSION LEVER SPRING TENSION ADJUSTMENT

In order to facilitate the starting of tape through the perforating unit and to improve tape feeding a stronger spring (110974) has been substituted for the 84023 spring formerly furnished. The spring tension requirement for the new spring should be "14 to 16 ozs." instead of "5 to 5-1/2 ozs."

The new spring is formed with 15 turns of wire as compared to 18 turns for the old spring.

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

EE-594
Issue 1
December, 1947

CHANGE IN BULLETINS 138, ISSUE 5, AND 160, ISSUE 1, ADJUSTMENTS TYPE BAR PAGE PRINTER MODELS 15 AND 20

Bulletin 138, Issue 5, Page 11
Bulletin 160, Issue 1, Page 8

Add the following immediately following "CARRIAGE SUPPORT AND PULL BAR BAIL PLUNGER ROLLERS ADJUSTMENTS:"

INSTRUCTIONS FOR REPLACING A TYPE BAR

CAUTION: The type bar guide adapter plate, located between the type bar guide and the type bar segment, is positioned at the factory for type alignment and should not be disturbed as it may seriously affect the alignment.

Remove the type bar carriage, the ribbon, the two screws and lock washers mounting the type bar guide to the adapter plate, and the ribbon carrier after disengaging it from hook or ribbon oscillator lever, and then lift the type bar guide off its dowels; raise the type bar in question until it passes the ribbon oscillator lever, then raise the selected pull bar until it is disengaged from the type bar and remove the type bar from its slot in the type bar segment. Insert the new type bar in the slot just vacated engaging the teeth on the pull bar so the top of the pull bar is even with that of the other pull bars when the type bar is resting against its backstop. (New type bars are usually oversize and the section that fits in the segment will probably have to be stoned down to permit it to operate freely. Do not remove more metal than is necessary for freedom of movement.) Reassemble the type bar guide on the adapter plate using the two screws and lock washers previously removed, the ribbon carrier on the type bar guide engaging its lower end in the ribbon oscillator lever hook, and the type bar carriage on the typing units.

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

EE-583
Issue 1
December, 1947

CHANGES IN BULLETIN 138 (ISSUE 5) TYPE BAR PAGE PRINTER (MODEL 15)

Page 7

RIBBON REVERSE SHAFTS COLLARS ADJUSTMENT

Change the requirement to read "1/4" to 3/8" instead of "1/4" to 5/16".

Page 12

MAIN SHAFT JAW CLUTCH SPRING TENSION

Change the tension requirement to read "22 to 30 ozs." instead of "22 to 26 ozs."

PRINTING BAIL SHAFT RIGHT BEARING ADJUSTMENT

Change the first sentence of this adjustment to read as follows:

"With the printing bail held toward the right, there should be some, not more than .015", clearance between the end of the printing bail casting and the left bearing of the printing bail shaft."

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Page 38

DASHPOT LEVER SPRING TENSION

Change this requirement to read "16 to 22 ozs." instead of "18 to 24 ozs."

Page 64

CONTACT PAWL SPRING TENSION (Figure 99)

Change the spring tension requirement to read "1-1/2 to 3 ozs." instead of "3/4 to 1-1/2 ozs."

* * *

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

EE-580
Issue 1
December, 1947

CHANGES IN BULLETINS

138, Issue 5, Model 15 Typebar Page Printer, Page 22
159, Issue 2, Model 26 Type Wheel Page Printer, Page 1
182, Issue 1, Multiplex Start-Stop Extensor Set, Page 12

SELECTOR MAGNET ADJUSTMENT

Change the note to read as follows:

"NOTE: When the cores are in proper adjustment, it should require at least 3-1/2 lbs. pull, with a 64 oz. scale applied at right angle to the armature edge on the same level as the armature extension, to separate the armature from the cores when a current of .020 amperes is flowing through the magnet coils. (Coils in series shunted by a 5000 ohm resistor.)"

* * *

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

EE-565
Issue 1
December, 1946

CHANGES AND ADDITIONS TO ADJUSTING BULLETINS

138, Issue 5, Model 15 Type Bar Page Printer - Page 18
147, Issue 2, Single Magnet Reperforator - Page 4
165, Issue 2, Model 14 Typing Reperforator - Page 8
171, Issue 2, Model 14 Typing Reperforator - Page 7

ARMATURE STOPS ADJUSTMENT

Change the clearance requirement of this adjustment to specify .035" to .037" instead of .040" to .042" and add the following note:

NOTE: The upper limit may be increased up to .042" only if necessary in order to permit meeting the requirement for clearances given under the heading "Armature Trip-Off Eccentric Screw Adjustment."

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

EE-562
Issue 1
December, 1946

CHANGES IN BULLETINS

127, Issue 3, Model 14 Type Bar Tape Printer, Page 13
138, Issue 5, Model 15 Type Bar Page Printer, Page 26
159, Issue 2, Model 26 Type Wheel Page Printer, Page 5
165, Issue 2, Model 14 Typing Reperforator, Page 14
178, Issue 1, Reperforator Transmitter Distributor, Page 9
182, Issue 1, Multiplex Start-Stop Extensor Set, Page 16
193, Issue 1, Model 14 Reperforator Transmitter Distributor, Page 7
197, Issue 1, Multiple Reperforator Set, Page 15
198, Issue 1, Model 27 Type Wheel Page Printer, Page 18

SELECTOR ARM SPRING TENSION

Change this adjustment to read as follows:

Unhook the selector arm stop detent spring. With the armature extension on a high part of its cam, and the locking lever held away from the locking wedge, hook an 8 oz. scale over the end of the locking wedge and pull parallel to the selector arm spring. It should require 1-1/4 to 1-3/4 ozs. to start the selector arm moving. Reform the outer loop of the selector arm spring, if necessary, to meet this requirement. Replace the detent spring.

CAUTION: Care should be taken not to nick, crimp, or otherwise deform the spring or spring wire when reforming the loops.

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

EE-559
Issue 1
October, 1946

ADDITION TO BULLETIN 138 (ISSUE 5)
ADJUSTMENTS - TYPEBAR PAGE PRINTER
MODEL 15

Add the following note immediately after the text of the "Function Lever Bail Adjustment - Two Piece (Figures 23 and 24)" on page 13 and after Paragraph (3) of "Function Lever Bail Adjustment - One Piece (Figure 24)" on page 14.

NOTE: A minimum clearance of .025" is permissable between the rear edge of the No. 1 vane and the front edge of the transfer contact function lever when the typing unit is equipped with the station selector mechanism.

CHANGES AND ADDITIONS
BULLETIN 138, ISSUE 5
ADJUSTMENTS - TYPE BAR PAGE PRINTER
MODEL 15

The following requirements apply to Model 15 printer bases equipped with the 114239 contact assembly which is used in conjunction with the tabulating mechanism for interrupting transmission by opening the control magnet circuit of the transmitter distributor during the tabulating interval. The 114239 contact assembly replaces the 82917 standard send-receive-break mechanism on the base and includes a single contact and contact lever. These requirements also apply where the standard send-receive-break mechanism has been modified to include the special features of the 114239 assembly.

PAGE 62

TABULATOR BAR ADJUSTMENT (Figure 96)

Change this adjustment to read as follows:

The tabulator bar should be parallel to the front carriage rail, within .010", as gaged by measuring the clearance between the tip of the tabulator pawl on the carriage and the tabulator stops located at each end of the tabulator bar. There should also be .030" to .060" clearance between the left-hand edge of the tabulator bar extension and the contact lever bracket on the base. The tabulator bar should have some end play not over .004".

The parallel position of the tabulator bar with relation to the front carriage rail may be adjusted by means of the right-hand pivot bushing. The end play and the clearance between the tabulator bar extension and the contact lever bracket may be adjusted by means of the pivot screws.

Add the following adjustments immediately after the "Tabulator Bar Adjustment":

CONTACT LEVER SCREW ADJUSTMENT

With the tabulator latch bar (Figure 98) in its upper position, and the handle of the send-receive-break mechanism (if present) in the SEND position, there should be some clearance not more than .008" between the adjusting screw on the contact lever and the tabulator bar extension when the arm of the contact lever is touching the bakelite insulator of the longer contact spring. Adjust by positioning the contact lever screw. Recheck after tightening the lock nut.

Check the adjustment of the send-receive-break mechanism reset lever upper adjusting screw.

PAGE 63

Add the following immediately after the "Tabulator Stops Adjustment":

TRANSMITTER DISTRIBUTOR CONTROL CONTACT REQUIREMENTS

(1) The contact springs and points should be in line. Adjust, if necessary, by positioning the springs on their mounting screws.

(2) There should be some clearance not more than .008" between the fiber insulator on the lower end of the longer contact spring and the tabulator contact lever extension.

When checking this clearance the tabulator contact lever extension should be held firmly against the mounting bracket. Adjust by bending the shorter contact spring.

(3) The longer contact spring should exert pressure against the shorter contact spring. Hook an 8 oz. scale around the longer contact spring just below the contact point and pull horizontally toward the left. It should require 1 to 2 ozs. to just break contact.

Adjust by bending the longer contact spring.

* * *

CHANGES AND ADDITIONS
BULLETIN 138 (ISSUE 5)
ADJUSTMENTS - TYPE BAR PAGE PRINTER
MODEL 15

The following adjustments have been revised to merely include reference to Model 15 printers arranged to print six characters to the inch and forty-four characters per line:

Page 45

LEFT MARGIN ADJUSTING SCREW ADJUSTMENT (Figure 60)*

Change this adjustment to read as follows:

The left edge of the letter M should print 7/8" (plus or minus 1/16") from the left edge of the platen when used as the first character in lines of 72 character length. When lines of 76 character length are required, or when adjusting typing units that print six characters to the inch instead of the standard ten, the left edge of the letter M should print 11/16" (Plus or minus 1/16") from the left edge of the platen. To adjust, turn the left margin adjusting screw inward and lock the carriage in place by operating the dashpot lever so that the carriage will be in a position to print the letter M the required distance from the left edge of the platen as specified in the foregoing. Make sure that the carriage clutch members are fully engaged. Then reposition the adjusting screw so that, when the lock nut is slightly tightened so as to take up the end play in the threads and a horizontal pull of 8 lbs. is exerted on the dashpot lever applied with a 12 lb. scale at right angles to the curved surface 1/32" behind the margin and adjusting screw, there is a slight clearance (not more than .002") between the end of the screw and the dashpot lever. Turn the left margin adjusting screw 1/6th turn in a direction to eliminate this clearance and tighten the lock nut.

67243 109

RIGHT MARGIN ADJUSTING SCREW ADJUSTMENT (Figure 61)

Change this adjustment to read as follows:

The printer should normally print seventy-two characters on a line (forty-four characters for typing units that print six characters to the inch instead of the standard ten) before spacing is blocked by the spacing stop pawl. To adjust, return the carriage to the left end of the line and back off the right margin adjusting screw. Then, with the right margin adjusting screw arm in engagement with its detent, space the carriage one less space than the number of characters desired per line; that is, seventy-one spaces for normal lines of seventy-two characters. (The carriage should then be in position to print the last character for desired length of line.) Adjust the stop screw so that the spacing stop lever is moved within .015" to .030" from a projection on the spacing stop sleeve.

NOTE: When printing seventy-two, seventy-six or forty-four characters per line, pile-ups should occur on the seventy-third, seventy-seventh and forty-fifth characters respectively.

Page 46

MARGIN SIGNAL BELL ADJUSTMENT

Change this adjustment to read as follows:

The bell should ring on the sixty-sixth printed character for lines of seventy-two character length, on the seventieth for lines of seventy-six character length, and on the thirty-ninth for lines of forty-four character length. To adjust, return the carriage to the left end of the line. Then space the carriage sixty-six, seventy or thirty-nine spaces to the right, depending on the length of line being printed. Loosen the margin bell cam thumb screw and adjust the cam so that its right side is in contact with the margin bell pawl and tighten the thumb screw. (See Figure 58 for location of parts.)

* * *

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

EE-524
Issue 1
December, 1945

CHANGES IN BULLETIN 138 (ISSUE 5)
ADJUSTMENTS - TYPE BAR PAGE PRINTER
MODEL 15

PAGE 9

TYPE BAR BACKSTOP ADJUSTMENT

Add "See Note (A)" to the title and change the wording of the adjustment as follows:

With the pull bar bail in its extreme rear position, there should be not less than .010" clearance between the type bar backstop and the pull bars when the type bars are held in the type bar guide. Make this check on the two end pull bars and the middle pull bar.

To adjust, set the up and down position of the type bar backstop by means of its elongated mounting holes to meet this requirement. (See Figure 7 for location of parts.)

NOTE: When meeting the clearance requirement between the backstop and the pull bars, the backstop should be positioned low enough to eliminate any interference between adjacent type bar assemblies at the pallet ends which would be likely to cause "light" printing.

It is preferable that the end type bars rest against the backstop buffer strip along its entire width. It is permissable, however, to allow a clearance of not more than .010" between the front edge of the buffer strip and the type bars.

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

EE-508
Issue 2
April, 1946

ADDITION AND CORRECTION

TO BULLETIN 138, ISSUE 5

ADJUSTMENTS TYPE BAR PAGE PRINTER MODEL 15

This correction sheet is being reissued to correct an omission in Issue 1 of EE-508. Disregard the information found in Issue 1 and substitute the following:

PAGE 59

Omit the NOTE under "LEFT PRESSURE ROLLER LEVER SPRING TORSION" and add it under "RIGHT PRESSURE ROLLER LEVER SPRING TORSION."

Under "LEFT PRESSURE ROLLER LEVER SPRING TORSION add the following statement: "To adjust, loosen the mounting screw which mounts the left pressure roller spring bracket to the platen bracket casting, and rotate the spring bracket. Tighten the mounting screw."

ADJUSTMENT OF THE AUTOMATIC CARRIAGE RETURN AND LINE FEED MECHANISM ON MODEL 15 PRINTER

To be used in conjunction with Bulletin No. 138 - ADJUSTMENTS OF TYPE BAR PAGE PRINTER (MODEL 15).

For printers equipped with the automatic carriage return and line feed mechanism, add the following adjustments after the carriage return adjustments sequence, and directly following the paragraph "CARRIAGE RETURN CLUTCH SPRING COMPRESSION."

OPERATING BAIL LINE FEED EXTENSION ADJUSTMENTS

With the printing bail in its extreme rear position and the automatic carriage return trigger held in its operated position, rotate the main shaft until the automatic carriage return and line feed function lever just touches the number one vane. There should be some clearance, not more than .010" between the line feed push bar and the bottom of the function bail blade. To adjust, position the line feed extension by means of its enlarged mounting holes. Reposition the function bail blade if necessary.

To check the function bail blade adjustment, select the combination for the letter "O" when the printing bail is in its rearmost position, then rotate the main shaft until the printing bail is in its extreme forward position. There should be some clearance between the upper edge of the line feed extension projection of the bail and the lower edge of the line feed push bar.

AUTOMATIC CARRIAGE RETURN AND LINE FEED FUNCTION LEVER ECCENTRIC SCREW ADJUSTMENT

There should be an equal amount of clearance (within .010") between the bottom edge of the carriage return latch bar and the latch bar latch when, first the carriage return function lever is fully selected and then the automatic carriage return and line feed function lever is fully operated. To adjust, position the automatic carriage return and line feed function lever eccentric screw.

MOUNTING BRACKET ADJUSTMENT

NOTE

If the shift-blank stop motor control mechanism is not used on the typing unit on which the automatic carriage return and line feed mechanism is installed, subsequent references to the motor stop function lever blocking lever may be ignored.

With the trigger guide positioned in approximately the middle of its adjustable range, adjust the mounting bracket (a) approximately parallel to the 74019 spring plate, and (b) so that the clearance between the blocking edge of the motor stop function lever blocking lever when the main shaft is rotated until the printing bail is in its rearmost position, and the front edge of the motor stop function lever is approximately .015" to .025".

TRIGGER GUIDE ADJUSTMENT

With the letter "O" combination selected and the main shaft rotated until the printing bail is in its extreme forward position, there should be some clearance, not more than .010" between the carriage return latch bar and the lobe on the carriage return extension of the bail assembly. To adjust, position the trigger guide by means of its elongated mounting holes.

Check: With the main shaft in the stop position, there should be at least .005" clearance between the blocking edge of the trigger extension and the front edge of the automatic carriage return and line feed function lever, when the play is taken up to make this clearance a minimum.

TRIGGER ADJUSTABLE SCREW ADJUSTMENT

The automatic carriage return and line feed mechanism is designed to operate on a 72 to 76 character range. The following procedure assumes a 76-character line range. The procedure for the 72-character line range is substituted wherever 76 appears.

To check this adjustment, space the carriage one less than the desired number of characters on the line. There should be a clearance of .015" to .020" between the left-hand edge of the trigger extension and the right-hand edge of the blocking extension on the automatic carriage return and line feed function lever when the play in the function lever is taken up to the left. To adjust for this clearance, loosen the lock nut of the trigger adjustable screw and position the screw. Tighten the lock nut.

CARRIAGE RETURN AND AUTOMATIC CARRIAGE RETURN AND LINE FEED FUNCTION LEVER SPRING TENSIONS

With the carriage return combination fully selected and with the carriage return function lever resting against the vanes, unhook the carriage return function lever spring from the spring plate. Insert the hook end of a 12 lb. scale into the free end of the spring. It should require 9 to 11 lbs. to stretch the spring to its position length. Rehook the spring.

Measure the tension of the automatic carriage return and line feed function lever spring in a similar manner, with the function lever unblocked and resting against the vanes.

TRIGGER SPRING TENSION

Hook an 8 oz. scale over the trigger at the spring hole and pull horizontally in line with the spring. It should require a pull of 3-1/2 to 5 ozs. to just start the trigger moving.

*BELL CRANK RETAINER YIELD LEVER SPRING TENSION

Hook a 32 oz. scale over the end of the yield lever and pull horizontally in line with the spring. It should require 24 to 32 ozs. to start the arm moving.

The adjusting procedure for the following adjustment must be changed as indicated below:

LINE FEED TURNBUCKLE ADJUSTMENT

Substitute the following for the first sentence: "With the single-double line feed lever in the "single" line feed position, select the "line feed" combination and rotate the main shaft until the function bail is in its extreme rear position. Then manually move the line feed push bar to a position where it is just about to be disengaged from the function bail."

* * *

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 bearings. 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

* Indicates change

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 oiler 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.

Teletype Corporation

Chicago, Illinois U.S.A.

CHANGES AND ADDITIONS
BULLETIN NO. 1094 (ISSUE 2)
PARTS - TYPE BAR PAGE PRINTER (MODEL 15)

This correction sheet covers ordering information for Model 15 printer holding magnet selector parts, particularly the 95380 set of parts for converting a Model 15 printer with pulling magnets to one with holding magnets. This set of parts consists of the following:

1 - 91265 Cam Sleeve (Assem.) - Replaces 8507 Cam Sleeve on page 3.

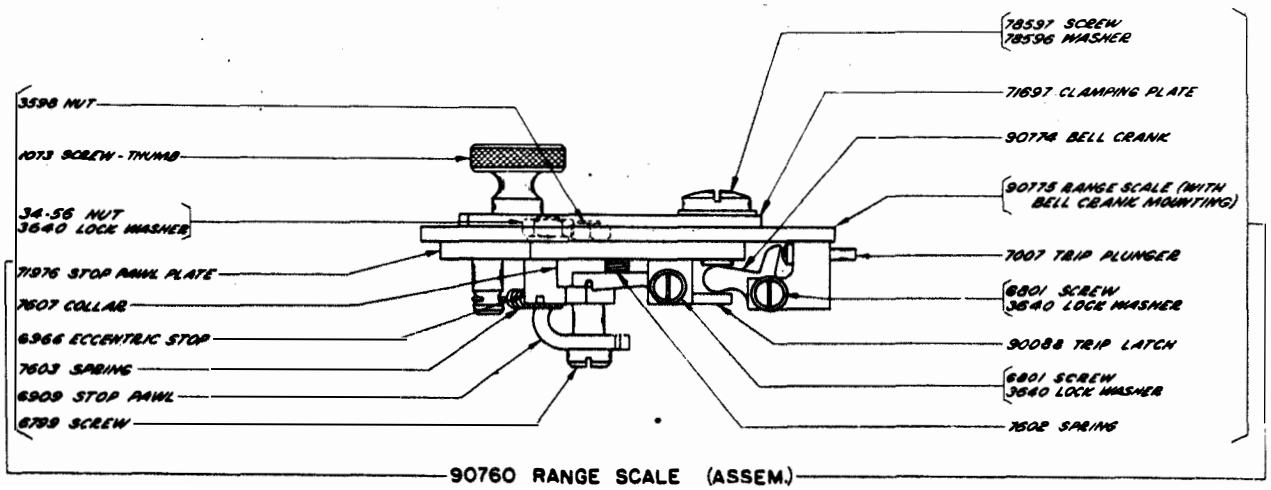
1 - 91266 Retaining Disc - Replaces 72516 Retaining Disc on page 3.

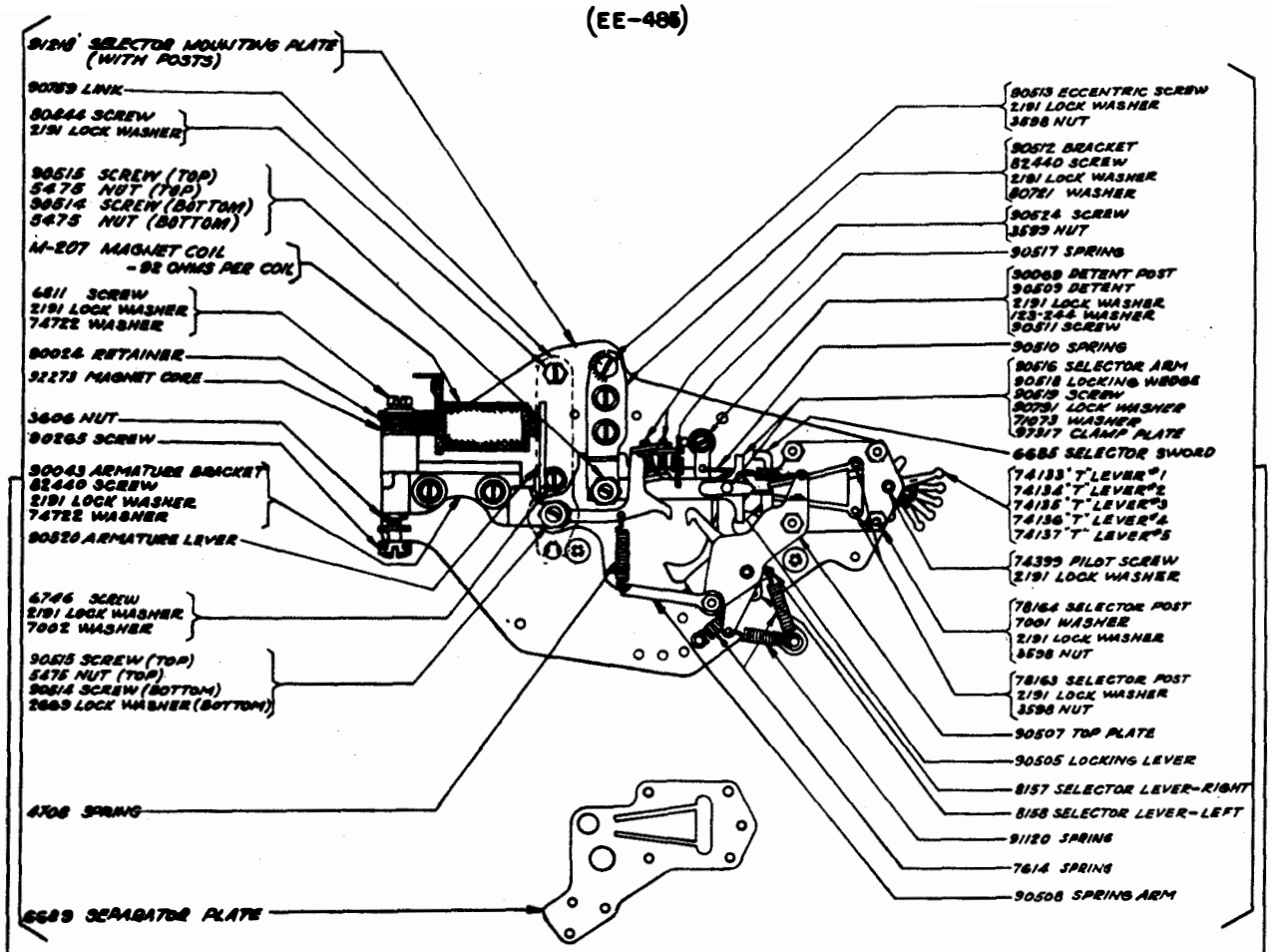
1 - 95379 Selector Unit (Assem.) - Holding Magnet
1 - 90760 Range Scale (Assem.)
1 - 94490 Series - Parallel Switch Bracket (Assem.)

} Replaces Selector Unit and Range Scale on page 9. See following illustrations for component parts.

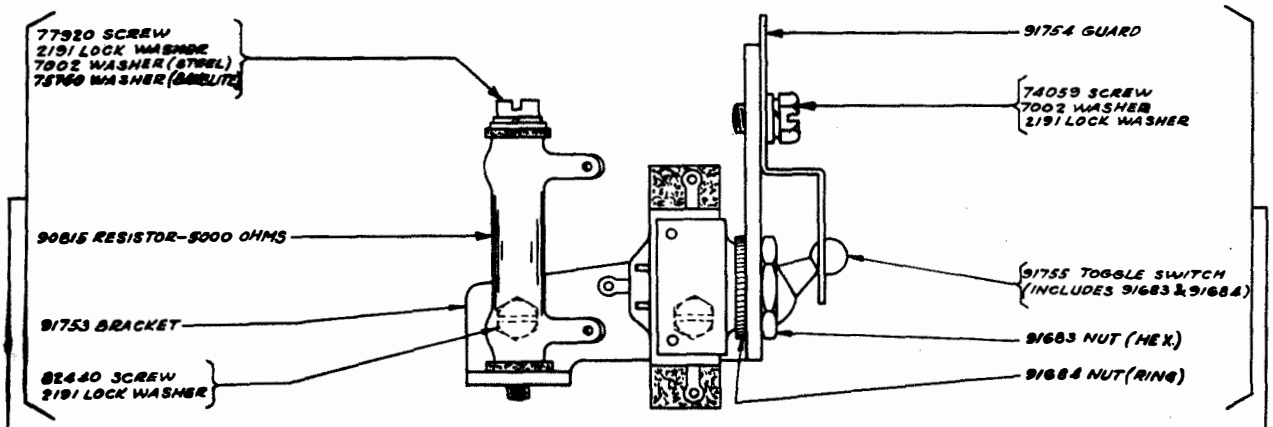
1 - 91278 Patent Name Plate
4 - 75646 Drive Screws (For 91278)
1 - 91898 Cable (For Selector magnets)
1 - 95218 Lacing Twine

67243 543





95379 SELECTOR UNIT (ASSEM.) -HOLDING MAGNET



94490 SERIES-PARALLEL SWITCH BRACKET (ASSEM.)

CHANGES AND ADDITIONS
TO PARTS BULLETINS
TYPE BAR PAGE PRINTER
(MODEL 15)

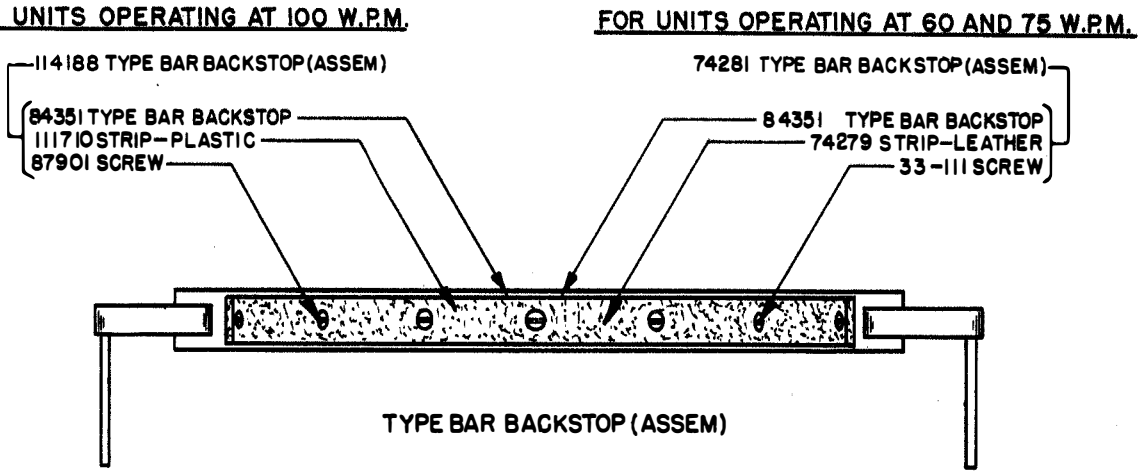
1037, ISSUE 4, PAGE 12
1094, ISSUE 2, PAGE 10
1110, ISSUE 2, PAGE 10
1114, ISSUE 1, PAGE 13

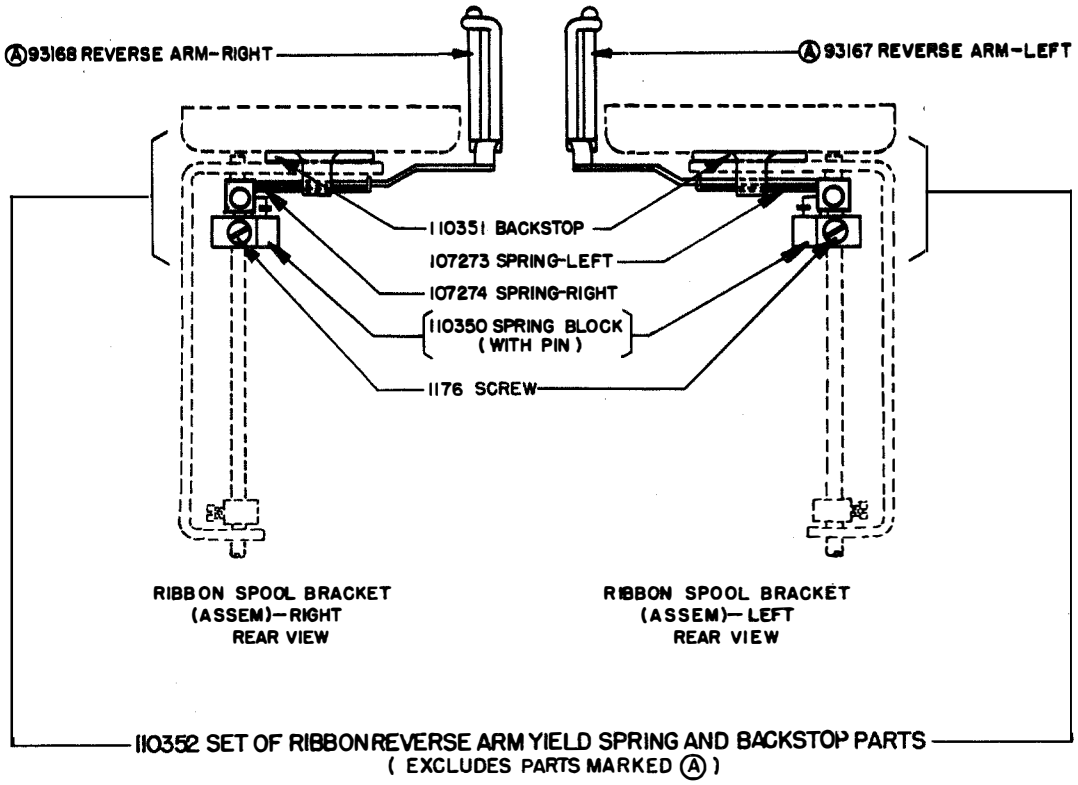
THE 74281 TYPE BAR BACKSTOP ASSEMBLY HAS BEEN REPLACED BY A 114188 TYPE BAR BACKSTOP ASSEMBLY ON 100 W.P.M. MACHINES AND DIFFERS AS SHOWN IN THE SKETCH BELOW:

SCREWS ARE NOT INTERCHANGEABLE BETWEEN THE TWO STYLE PARTS.

ALTHOUGH BOTH STYLE PARTS CAN BE USED INTERCHANGEABLY (WITH THE PROPER SCREWS), IT HAS BEEN FOUND THAT THE BALANCE OF LIFE IS IN FAVOR OF LEATHER FOR THE SLOWER SPEEDS AND IN FAVOR OF THE PLASTIC AT THE HIGHER SPEED.

CARBON TETRACHLORIDE, COMPOUNDS OF THIS SOLVENT, OR WATER SHOULD NOT BE USED IN CLEANING UNITS HAVING THE PLASTIC BACKSTOPS AS THEY CAUSE DETERIORATION OF THE PLASTIC MATERIAL.





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

EE-516
Issue 1
January, 1946

CHANGES AND ADDITIONS TO PARTS BULLETINS

1019	Issue 1	1064	Issue 2	1109	Issue 1
1028	Issue 2	1072	Issue 2	1110	Issue 2
1030	Issue 2	1080	Issue 1	1114	Issue 1
1031	Issue 3	1082	Issue 2	1116	Issue 1
1035	Issue 1	1088	Issue 2	1117	Issue 2
1036	Issue 3	1094	Issue 2	1119	Issue 1
1037	Issue 4	1095	Issue 1	1120	Issue 1
1041	Issue 4	1100	Issue 2	1122	Issue 2
1048	Issue 2	1101	Issue 1	1125	Issue 1
1051	Issue 1	1104	Issue 1	1127	Issue 1
1063	Issue 2	1105	Issue 1		

Reference is made in the above parts bulletins to the 77911 and 70873 brush holder caps. These two parts originally differed in that one (77911) had a tapped hole for a #6-32 screw to secure the filter lead, and the other (70873) did not. The 70873 has recently been changed to include the tapped hole, thus making the two parts identical. The 77911 brush holder cap has been cancelled and on orders for such part the 70873 brush holder cap will be furnished.

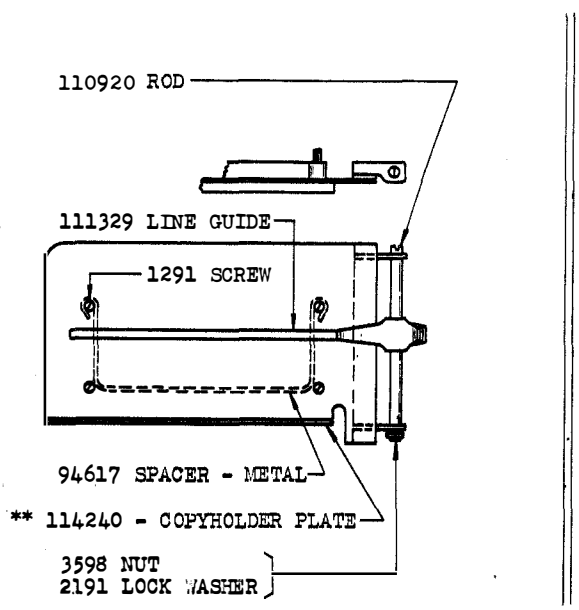
CHANGES AND ADDITIONS
TO PARTS BULLETINS

1025	ISSUE 3	1037	ISSUE 4	1082	ISSUE 2	1110	ISSUE 2
1028	ISSUE 2	1048	ISSUE 2	1088	ISSUE 2	1114	ISSUE 1
1030	ISSUE 2	1063	ISSUE 2	1090	ISSUE 2	1117	ISSUE 2
1031	ISSUE 3	1067	ISSUE 2	1094	ISSUE 2		

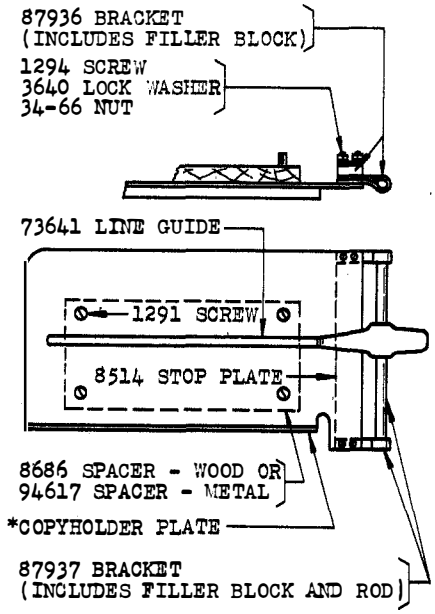
THE 6" COPYHOLDER ASSEMBLIES SHOWN IN THE ABOVE BULLETINS HAVE BEEN REDESIGNED AND ASSIGNED NEW ASSEMBLY NUMBERS. THE SKETCHES BELOW ILLUSTRATE THE DIFFERENCE BETWEEN THE NEW AND OLD ASSEMBLIES, WHICH ARE INTERCHANGEABLE, AND THE CHART LISTS THE NEW AND OLD ASSEMBLY NUMBERS.

THE 8686 SPACER (WOOD) IS NO LONGER AVAILABLE, 94617 SPACER (METAL) WILL BE FURNISHED INSTEAD.

THE 73641 LINE GUIDE HAS BEEN REPLACED BY 111329 LINE GUIDE, WHICH HAS THE CLIP HANDLE BENT FORWARD TO FACILITATE OPERATING THE GUIDE FROM THE FRONT RATHER THAN FROM THE SIDE.



NEW STYLE 6" COPYHOLDER (ASSEM.)



OLD STYLE 6" COPYHOLDER (ASSEM.)

NEW ASSEMBLY		FINISH		OLD ASSEMBLY	
NUMBER	SPACER	COLOR	SUFFIX	NUMBER	SPACER
115700AA	METAL	BLACK WRINKLE	AA	91752	WOOD
115700AB	METAL	GRAY GREEN WRINKLE	AB	—	METAL
115700AC	METAL	LIGHT BROWN WRINKLE	AC	101868	WOOD
115700AD	METAL	DARK BROWN WRINKLE	AD	113419	METAL
115700BA	METAL	BLACK HIGH GLOSS	BA	74833	WOOD
115700BA	METAL	BLACK HIGH GLOSS	BA	101276	METAL
115700BC	METAL	OLIVE GREEN	BC	80888	WOOD
115700CA	METAL	WALNUT	CA	74832	WOOD
115700CA	METAL	WALNUT	CA	101275	METAL
115700CB	METAL	MAHOGANY	CB	81881	WOOD
115700CB	METAL	MAHOGANY	CB	***84922	WOOD
115700CB	METAL	MAHOGANY	CB	101277	METAL

* THE OLD STYLE COPYHOLDER PLATE IS NO LONGER AVAILABLE. WHEN IT BECOMES NECESSARY TO REPLACE AN OLD STYLE COPYHOLDER PLATE A NEW STYLE COPYHOLDER PLATE ALONG WITH ONE 110920 ROD, ONE 2191 LOCK WASHER AND ONE 3598 NUT SHOULD BE ORDERED INSTEAD.

** ON ORDERS FOR NEW STYLE COPYHOLDER PLATES, CUSTOMER MUST INDICATE THE COLOR OF FINISH DESIRED BY ADDING A TWO-LETTER SUFFIX TO THE COPYHOLDER PLATE PART NUMBER. FOR EXAMPLE: ORDER "114240CA COPYHOLDER PLATE" WHEN A WALNUT FINISH COPYHOLDER PLATE IS DESIRED. (SEE "FINISH" COLUMN IN CHART ABOVE FOR FINISHES AND THEIR RESPECTIVE SUFFIXES.

*** THE 84922 COPYHOLDER ASSEMBLY (USED ON WHEATSTONE PERFORATOR COVER - WOOD) WAS LIKE 81881 COPYHOLDER ASSEMBLY, EXCEPT HAVING LONGER MOUNTING SCREWS. IN THE FUTURE, A STANDARD COPYHOLDER ASSEMBLY WILL BE FURNISHED IN PLACE OF 84922, AND THE LONGER MOUNTING SCREWS WILL BE INCLUDED WITH THE WHEATSTONE PERFORATOR COVER.

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

EE-530
Issue 1
December, 1945

ADDITIONS TO BULLETIN NO. 1094 (ISSUE 2) PARTS--TYPE BAR PAGE PRINTER (MODEL 15)

This correction sheet covers ordering information for the various parts used on certain types of Model 15 printer bases that are not listed in the bulletin.

Page 13

The resistor, located on top of the base at the extreme left side, may be ordered as 103746 resistor - 5 ohms. This resistor is mounted by means of an 81596 screw, 2669 lock washer, 3438 washer and two 81836 washers - bakelite.

Page 14

The switch bracket (assem.), located on top of the 74395 relay guard, may be ordered as 107269 switch bracket (assem.) and consists of a 107213 bracket and a 95320 toggle switch (with 91683 nut-hex., 91684 nut-ring and two wire leads). This switch bracket (assem.) is mounted by means of two 6745 screws, two 2669 lock washers and two 3438 washers.

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

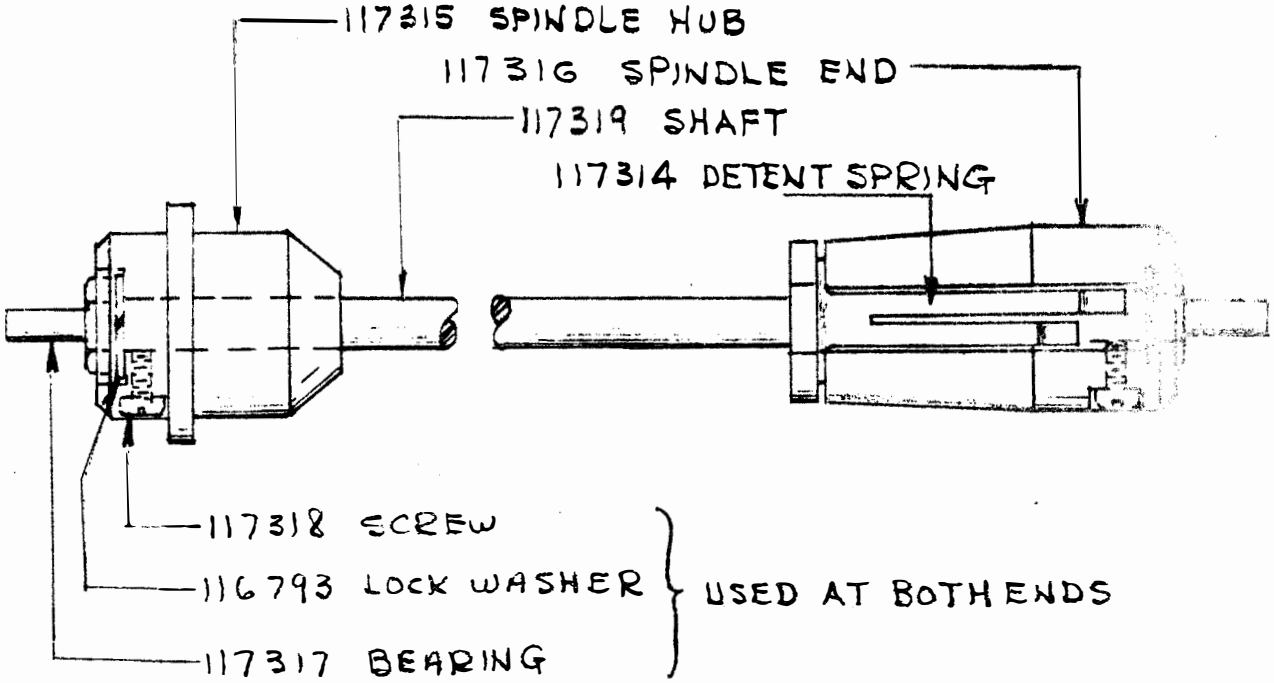
NL-601
Issue 1
December, 1948

CHANGES AND ADDITIONS TO PARTS BULLETINS COVERING TYPE BAR PAGE PRINTERS (MODEL 15 AND 20)

Model 15	Model 20
1037 Issue 4	1063 Issue 2
1094 Issue 2	
1110 Issue 2	
1114 Issue 1	

The 74876, 74922, 80455, 88020, and 91111 paper roll spindle assemblies (wood) shown in the above bulletins, have been replaced by a new style 117313 Paper Roll Spindle Assembly (Metal).

The 117313 is adjustable so as to accommodate all widths of paper. The drawing below illustrates the component parts of the new design.



117313 PAPER ROLL SPINDLE (ASSEM.)
(ADJUSTABLE)

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

EE-618
Issue 1
March, 1948

CHANGES AND ADDITIONS TO PARTS BULLETINS SHOWN BELOW

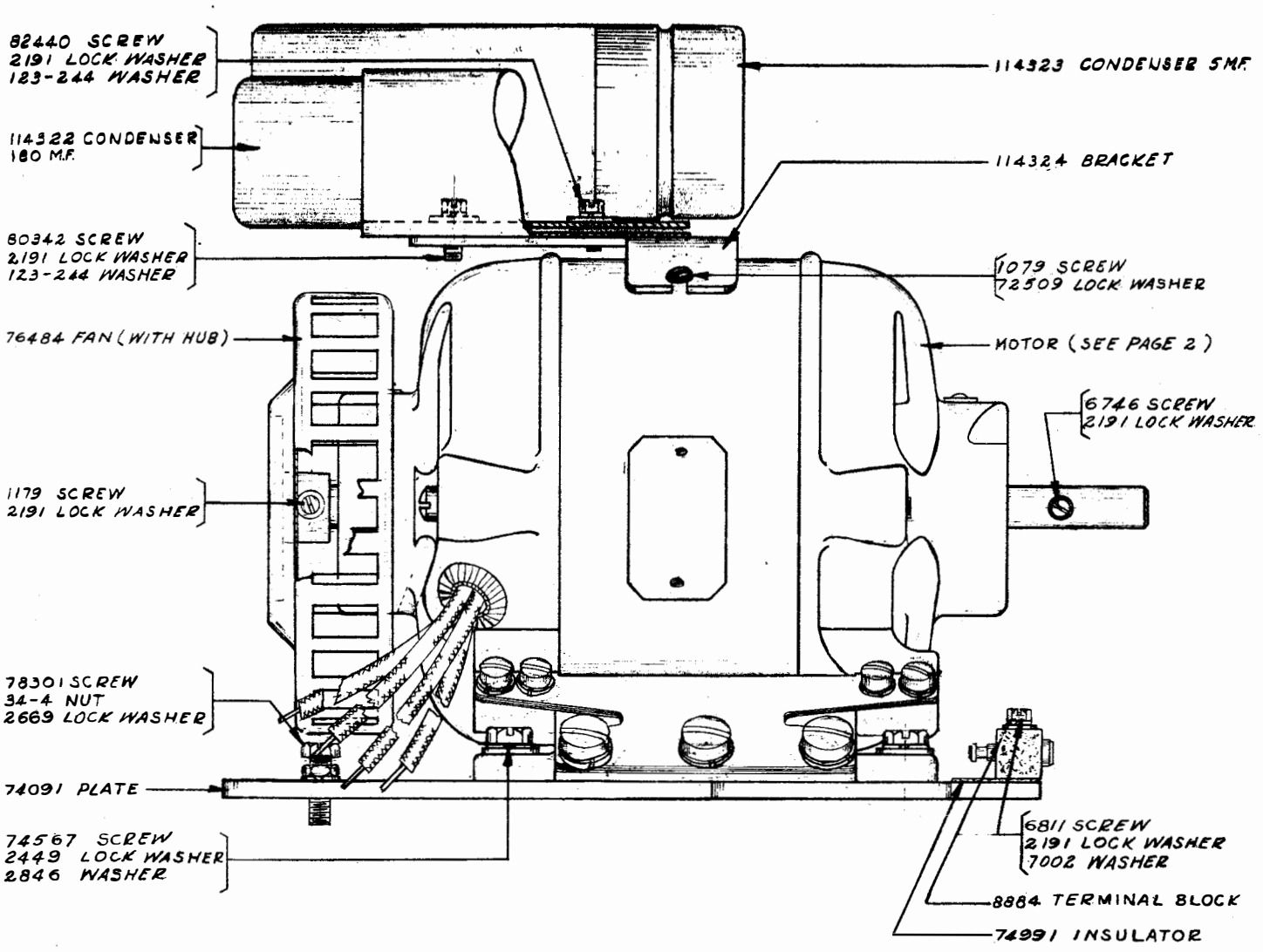
In order to facilitate identification of selector cam sleeve assemblies they are stamped with identifying letters. The chart below shows the cam sleeve assembly numbers and identifying letters.

BULLETIN NUMBER	TYPE OF APPARATUS	CAM SLEEVE ASSEMBLY NUMBER	STAMPED WITH LETTERS
1028 Issue 2 1030 Issue 2 1031 Issue 3 1048 Issue 2	Type Bar Tape Printer (Model 14)	*8507	CX
1082 Issue 2 1088 Issue 2 1100 Issue 2 1117 Issue 2	Typing Reperforator (Model 14)	*8507 **91265	CX MX
1108 Issue 1 1126 Issue 1	Reperforator Transmitter (Model 14)	**91265	MX
1130 Issue 1	Multiple Reperforator (RPE)	**111506	QX
1083 Issue 1 1107 Issue 1	Non-Typing Selector (Model 14)	**91265	MX
1072 Issue 2	Regenerator Unit & Panel (AED)	**90010	HX
1121 Issue 1	Multiplex Extensor Unit (AME)	**103891	PX
1064 Issue 2	Reperforator Model 14	*86158	GX
1080 Issue 1	Reperforator Model 20	*91020	LX
A 1037 Issue 4 B 1063 Issue 2	Type Bar Page Printer Model 15	*8507 **91265	CX MX
1094 Issue 2 1110 Issue 2 A 1114 Issue 1	Type Bar Page Printer Model 20	*91019	KX
1073 Issue 1	Type Wheel Page Printer (Model 24)	**90493	JX
1074 Issue 2	Type Wheel Page Printer (Model 26	**92954	NX

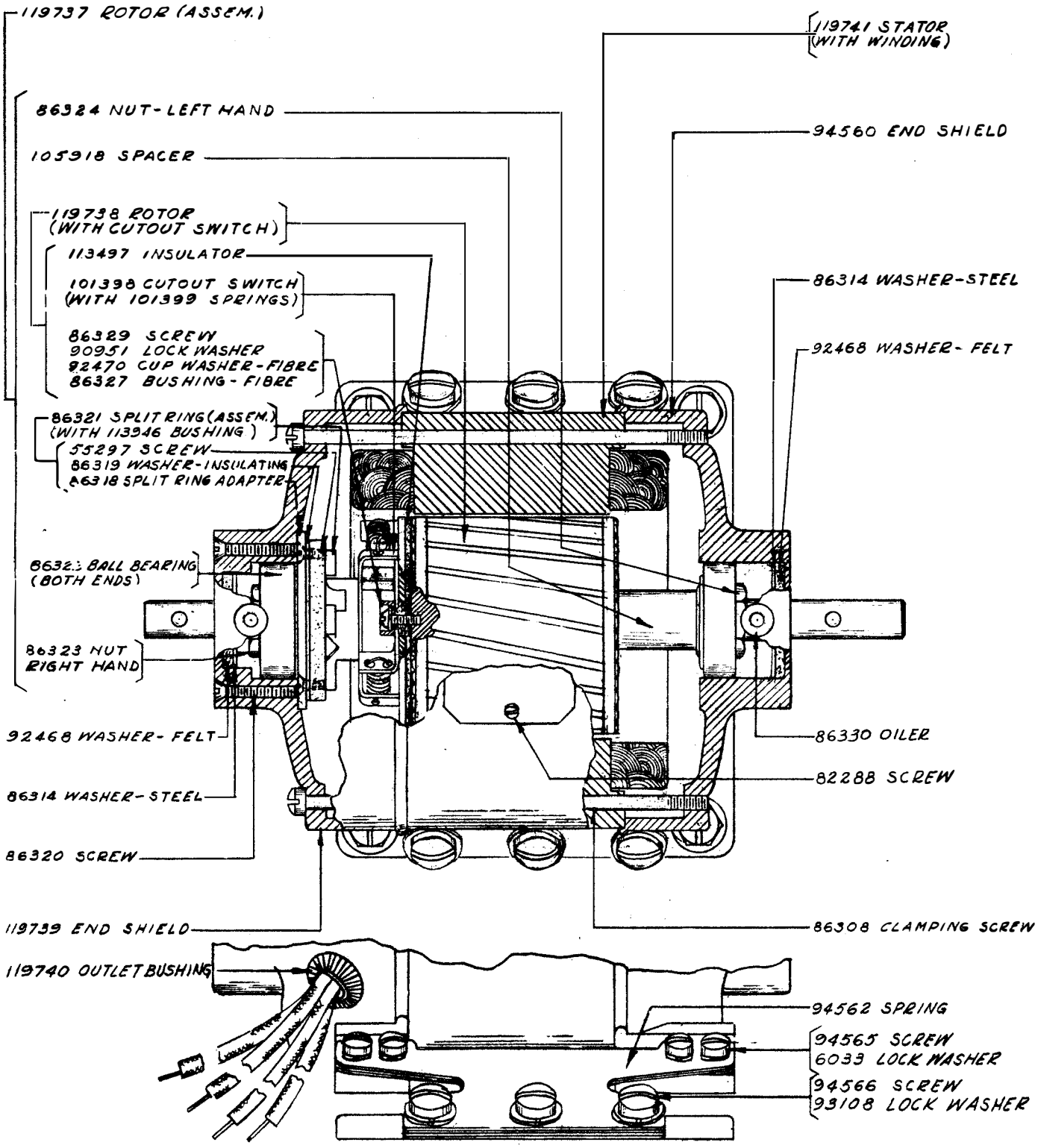
A In Bulletins 1037 and 1114, Page 3, the stamping for the 8507 and 91265 cam sleeve assemblies should read "CX" and "MX" respectively.
B In Bulletin 1063, top of Page 27, the stamping for the 91019 should read "KX".
* For use with "Pulling Magnet Selectors".
** For use with "Holding Magnet Selectors".

Printed in U.S.A.

CHANGES AND ADDITIONS TO BULLETINS 1037, 1094 AND 1114 TO COVER PARTS ORDERING INFORMATION FOR MU33 (25 CYCLE) SYNCHRONOUS MOTOR UNIT.



MU33 MOTOR UNIT (INCLUDES 114321 MOTOR) SHOWN ON PAGE 2 AND ALL PARTS LISTED ON THIS PAGE.



114321 SYNCHRONOUS MOTOR 1/40 H.P. 115 V., 25 CYCLE A.C. (H.C. MODEL S-9060)

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

EE-622
Issue 1
April, 1948

CHANGES AND ADDITIONS TO PARTS BULLETINS

B-1014 (Issue 3)	B-1048 (Issue 2)	B-1088 (Issue 2)	B-1114 (Issue 1)
B-1015 (Issue 2)	B-1051 (Issue 1)	B-1094 (Issue 2)	B-1116 (Issue 1)
B-1019 (Mar. 1928)	B-1063 (Issue 2)	B-1095 (Issue 1)	B-1117 (Issue 2)
B-1028 (Issue 2)	B-1064 (Issue 2)	B-1100 (Issue 2)	B-1119 (Issue 1)
B-1030 (Issue 2)	B-1072 (Issue 2)	B-1101 (Issue 1)	B-1120 (Issue 1)
B-1031 (Issue 3)	B-1073 (Issue 1)	B-1104 (Issue 1)	B-1121 (Issue 1)
B-1035	B-1074 (Issue 2)	B-1105 (Issue 1)	B-1122 (Issue 2)
B-1036 (Issue 3)	B-1079 (Issue 2)	B-1107 (Issue 1)	B-1125 (Issue 1)
B-1037 (Issue 4)	B-1080 (Issue 1)	B-1109 (Issue 1)	B-1127 (Issue 1)
B-1041 (Issue 4)	B-1082 (Issue 2)	B-1110 (Issue 2)	

The 6314 contact spring (assem.), used on govenors shown in the above bulletins, has been redesigned to provide a smoother, flatter and thicker all-tungsten contact for greater service life. In the new design, which retains its original assembly number, the tungsten contact is welded directly to the contact spring, whereas in the old design the tungsten contact was welded to a screw (comprising the 72835 contact point) and then threaded into a tapped hole in the contact spring.

The 72835 contact point is no longer available: when it becomes necessary to replace this part a new style 6314 contact spring (assem.), which includes an 86868 bushing and an 86869 post, should be ordered.

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

EE-687
Issue 1
September, 1949

ADDITIONS TO PARTS BULLETINS

1028, Issue 2 - Model 14 Type Bar Tape Printer, Page 5
1030, Issue 2 - Model 14 Type Bar Tape Printer, Page 5
1031, Issue 3 - Model 14 Type Bar Tape Printer, Page 7
1037, Issue 4 - Model 15 Type Bar Page Printer, Page 3
1063, Issue 2 - Model 20 Type Bar Page Printer, Page 2
1064, Issue 2 - Single Magnet Reperforator (Models 14 and 20 Nontyping), Page 2
1072, Issue 2 - Regenerator Unit and Panel, Page 2
1074, Issue 2 - Type Wheel Page Printer (Model 26), Page 8
1080, Issue 1 - Single Magnet Reperforator (Model 14 Nontyping), Page 2
1082, Issue 2 - Typing Reperforator (Model 14), Page 18
1088, Issue 2 - Typing Reperforator (Model 14), Page 10
1094, Issue 2 - Model 15 Type Bar Page Printer, Page 3
1100, Issue 2 - Typing Reperforator (Model 14), Page 8
1107, Issue 1 - Nontyping Selector, Page 6
1108, Issue 2 - Reperforator Transmitter (Model 14), Page 13
1110, Issue 2 - U.S. Army Signal Corps Printers TG-7-A and TG-7-B (Teletype Model 15), Page 3
1114, Issue 1 - Model 15 Type Bar Page Printer, Page 3
1116, Issue 1 - Nontyping Selector, Page 5
1117, Issue 1 - U.S. Army Signal Corps Reperforator Transmitters TG-26-A and TG-27-A (Teletypewriter), Page 7
1126, Issue 1 - Reperforator Transmitter Distributor (Model 14), Page 11
1130, Issue 1 - Multiple Reperforator, Page 6
1141, Issue 1 - Teletype Sequential Control (SECO) System Equipment, Page 13
1143, Issue 1 - Sequential Selector, Page 8

In the bulletins listed above:

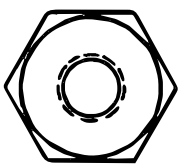
1. To permit adjustment of the selector clutch torque without the necessity of removing the selector cam sleeve, the 119540 keyed nut and the 119541 capstan nut replace the 72517 nut and 72515 keyed nut respectively.

2. Shims formerly supplied to adjust the selector clutch torque in the field are still available under the following numbers:

96763 Shim (.012" thick)
96764 Shim (.016" thick)
96765 Shim (.020" thick)

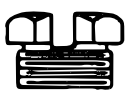
OLD STYLE

72517 NUT

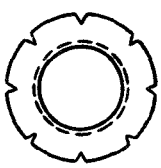


72515 NUT

NEW STYLE



119540 NUT, KEYED



119541 NUT, CAPSTAN

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

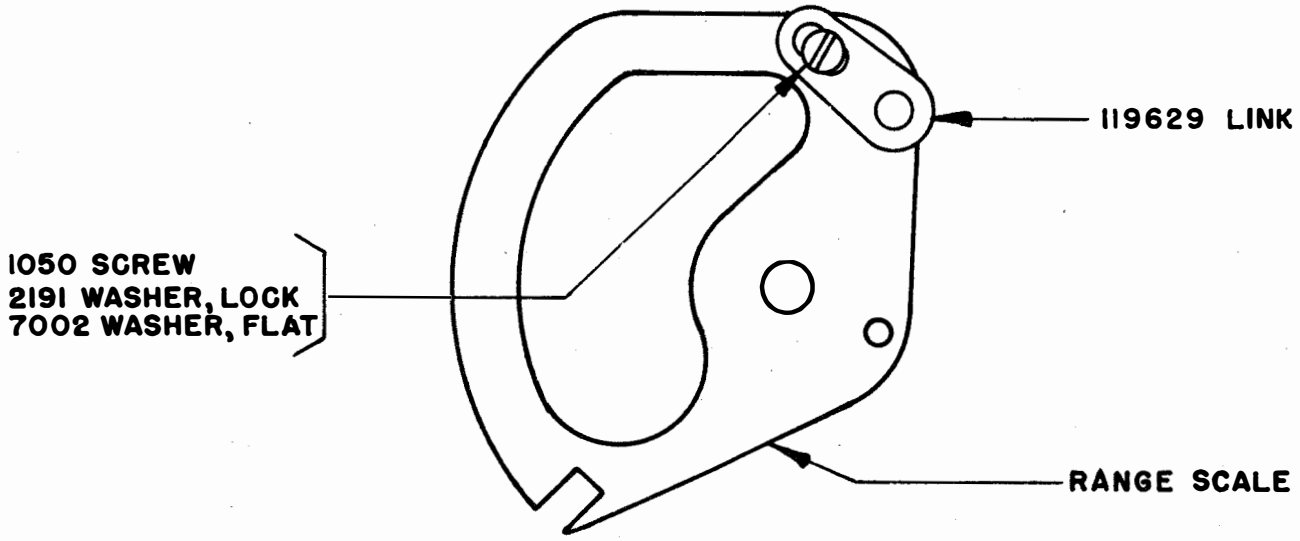
EE-696
Issue 1
March, 1950

ADDITION TO PARTS BULLETINS
LISTED BELOW

1028 (Issue 2)	1080 (Issue 1)	1114 (Issue 1)
1030 (Issue 2)	1082 (Issue 2)	1116 (Issue 1)
1031 (Issue 3)	1083 (Issue 1)	1117 (Issue 2)
1037 (Issue 4)	1088 (Issue 2)	1121 (Issue 1)
1063 (Issue 2)	1094 (Issue 2)	1126 (Issue 1)
1064 (Issue 2)	1100 (Issue 2)	1130 (Issue 1)
1072 (Issue 2)	1107 (Issue 1)	1141 (Issue 1)
1073 (Issue 1)	1108 (Issue 2)	1142 (Issue 1)
1074 (Issue 2)	1110 (Issue 2)	1143 (Issue 1)

This correction sheet covers parts ordering information for the Adjustable Range Scale Assembly. In the bulletins listed above, under each respective Range Scale number shown (71696, 83562, 86154, 90086, 90775, or 90776, depending on the unit), add the following parts:

119629	Link
1050	Screw
2191	Lock Washer
7002	Washer



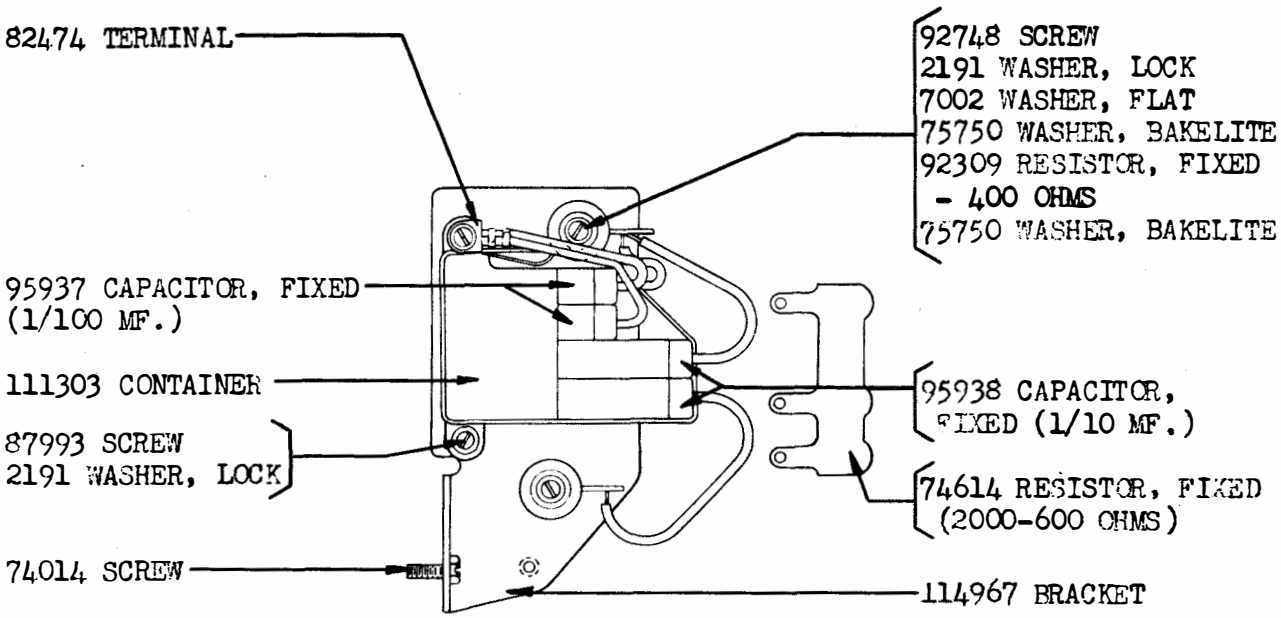
Teletype Corporation
Chicago, Illinois, U.S.A.

EE-707
Issue 1
June, 1950

CHANGES IN PARTS
BULLETINS - MODEL 15 PRINTER

1037, Issue 4, Page 34
1094, Issue 2, Page 22
1114, Issue 1, Page 28

The 92227 Line Relay Filter Assembly has been superseded by a 114965 Assembly.



114965 LINE RELAY FILTER (ASSEM.)

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:

Old Designation	New Designation	Description
M121	121M	Magnet
PK10718	10718PK	Carton
RM31571	31571RM	Wire
121	121B	Bulletin
EE121	121EE	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 numberically 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.

*Indicates change
**Indicates addition

OLD TO NEW NUMBER CONVERSION LIST

Old No.	New No.	Description
4-8	74879	Stud
23-8	125105	Terminal
33-1	1157	Screw
33-2	125108	Screw
33-3	1158	Screw
33-4	1263	Screw
33-5	1159	Screw
33-6	1160	Screw
33-7	1161	Screw
33-8	125109	Screw
33-9	125110	Screw
33-10	1162	Screw
33-11	1163	Screw
33-12	125111	Screw
33-13	5740	Screw
33-14	1164	Screw
33-15	125112	Screw
33-16	1165	Screw
33-17	1166	Screw
33-18	125113	Screw
33-21	112620	Screw
33-22	125114	Screw
33-29	125116	Screw
33-32	125117	Screw
33-35	1168	Screw
33-37	1169	Screw
33-38	125119	Screw
33-39	1222	Screw
33-41	125120	Screw
33-43	125122	Screw
33-49	1170	Screw
33-50	125124	Screw
33-53	1171	Screw
33-54	1172	Screw
33-57	125126	Screw
33-58	125127	Screw
33-63	125130	Screw
33-64	1173	Screw
33-65	125131	Screw
33-69	1223	Screw
33-70	125132	Screw
33-85	125138	Screw
33-86	125139	Screw
33-89	125141	Screw
33-98	125142	Screw
33-101	125143	Screw
33-110	110434	Screw
33-111	49054	Screw
33-114	125146	Screw
33-130	125149	Screw
33-132	125001	Screw
33-153	125154	Screw
33-156	1162	Screw
33-157	1174	Screw
33-158	125155	Screw
33-163	125157	Screw
33-168	125159	Screw
33-170	112621	Screw
33-179	125002	Screw
33-180	125162	Screw
33-185	125163	Screw
33-193	125164	Screw
33-194	125165	Screw
33-195	1176	Screw
33-197	125167	Screw
33-198	125168	Screw
33-206	125003	Screw
33-207	125170	Screw
33-208	125171	Screw
33-213	125176	Screw
33-224	125178	Screw
33-225	125179	Screw
33-227	125180	Screw
33-234	1177	Screw
33-238	1179	Screw
33-240	86850	Screw
33-252	125189	Screw
33-253	125190	Screw
33-254	125191	Screw
33-255	125192	Screw
33-257	125193	Screw
33-270	87636	Screw
33-271	125195	Screw
33-276	125197	Screw
33-278	125199	Screw
33-280	125005	Screw
33-282	125200	Screw
33-283	125201	Screw
33-296	125205	Screw
33-333	125006	Screw
33-334	112622	Screw
33-335	112623	Screw
33-336	125206	Screw
33-337	112624	Screw
33-341	125209	Screw
33-344	125211	Screw
33-346	125212	Screw
33-348	125213	Screw
33-350	125215	Screw
33-360	1181	Screw
33-362	125217	Screw
34-1	125218	Nut
34-2	3595	Nut
34-4	112626	Nut
34-5	5475	Nut
34-6	3597	Nut
34-7	70073	Nut
34-8	3598	Nut
34-9	3599	Nut
34-10	125220	Nut
34-11	112627	Nut
*34-12	55257	Nut
34-13	125221	Nut
34-14	5815	Nut
34-16	125222	Nut
34-19	125223	Nut
34-24	125224	Nut
34-25	3600	Nut
34-27	125225	Nut
34-28	3602	Nut
34-29	3603	Nut
34-39	125227	Nut
34-41	125228	Nut
34-48	125229	Nut
34-50	3604	Nut
*34-51	1036	Nut
34-55	3606	Nut
34-56	110435	Nut
34-58	125231	Nut
34-59	125009	Nut
34-61	125233	Nut
34-64	112628	Nut
34-66	125235	Nut
35-1	112629	Spring
35-2	112630	Spring
35-8	112631	Spring
35-13	125236	Spring
35-24	125239	Spring
35-27	125241	Spring
35-28	125242	Spring
35-33	112632	Spring
35-34	125243	Spring
35-40	125244	Spring
35-42	110436	Spring
35-47	125246	Spring
35-52	4702	Spring
35-53	125248	Spring
35-54	112633	Spring
35-58	3608	Spring
35-68	125250	Spring
35-69	125251	Spring
35-70	110437	Spring
35-71	125252	Spring
35-72	125253	Spring
35-78	125254	Spring
35-80	125255	Spring
35-85	125257	Spring
35-86	4703	Spring
35-87	4708	Spring
35-88	110438	Spring
35-89	112634	Spring
35-99	125258	Spring
35-116	125262	Spring
35-126	3610	Spring
35-132	125267	Spring
35-133	125268	Spring
35-134	4705	Spring
35-137	112635	Spring
*35-140	112636	Spring
36-24	125272	Pin
36-28	125273	Pin
36-39	125276	Pin
36-45	125277	Pin
36-51	125278	Pin
36-56	3614	Pin
36-73	125280	Pin
36-80	125281	Pin
36-110	125288	Pin
36-114	125290	Pin
36-120	125269	Pin
*36-131	125092	Dowel
36-132	125292	Pin
36-137	3614	Pin
36-147	125296	Pin
36-150	125297	Pin
36-153	110440	Pin
36-164	125300	Pin
43-10	125306	Stop
*43-12	71047	Washer
46-3	125307	Washer
61-7	3618	Insulator
61-10	125314	Screw
61-24	125010	Washer
61-25	125317	Insulator
100-74	5816	Washer
100-75	3620	Washer
100-80	125328	Bushing
100-84	125330	Screw
100-85	3621	Terminal
100-96	110441	Shim
100-108	3624	Washer
100-112	125339	Terminal
100-120	125341	Bushing
103-27	125011	Washer
112-7	125373	Screw
122-5	125379	Post
122-11	125380	Chute
122-12	125381	Stud
122-18	125382	Cable
S-122-19	125383	Bracket
S-122-20	125384	Bracket
S-122-21	125385	Bracket

*Indicates change

Old No.	New No.	Description
S-122-22	125386	Bracket
S-122-23	125387	Bracket
S-122-24	125388	Bracket
122-25	125389	Bracket
122-26	125390	Washer
122-27	125391	Shaft
122-28	125392	Stop
122-29	125393	Pin
122-35	125394	Plate
122-36	125395	Pin
S-122-37	125396	Guide
S-122-38	125397	Bar
S-122-39	3625	Shaft
S-122-40	125398	Bracket
122-42	125400	Gear
122-43	125401	Gear
122-46	125402	Post
122-48	125012	Socket
122-49	125403	Fitting
122-50	125404	Lamp
122-51	125405	Bell Crank
122-52	125406	Bell Crank
122-53	125407	Bell Crank
122-54	125408	Bell Crank
122-55	125409	Bell Crank
122-56	125410	Bushing
122-57	125411	Bushing
122-58	125412	Stud
122-60	125413	Ratchet
122-61	125414	Post
122-62	125415	Pin
122-63	125416	Post
122-65	125417	Stud
122-67	125418	Post
122-68	3626	Foot
S-122-69	125419	Stop
122-84	125421	Pin
122-86	125422	Pin
122-88	125423	Solenoid Assem.
122-89	125424	Bracket
122-94	125425	Terminal Brd.
122-95	125426	Insulator
122-97	125427	Bushing
122-100	125428	Plate
122-101	125429	Head
122-102	125430	Post
122-106	125431	Bracket Assem.
122-107	125433	Bracket
122-108	125434	Bushing
122-113	9575	Screw
122-116	125438	Lever Assem.
122-117	125439	Lever
122-118	125440	Terminal
122-119	125441	Contact Assem.
122-121	125443	Contact
122-124	125444	Spring
122-126	125445	Insulator
122-127	125446	Stud
122-128	125447	Bracket Assem.
122-129	125448	Bracket
S-122-130	125449	Lever Assem.
122-133	125450	Post
S-122-134	125451	Bell Crank
122-135	125452	Washer
S-122-136	125453	Bracket
122-137	125454	Gear Assem.
122-140	125456	Stud
122-143	125457	Connector
122-146	125458	Bearing
122-147	125459	Bushing
122-194	125463	Disk
122-195	125464	Disk
122-196	125465	Bezel
S-122-234	3627	Bar
122-242	125467	Lever Assem.
122-244	125468	Post
122-245	125469	Pawl
122-246	125470	Post
122-247	125471	Disk Assem.
122-249	125472	Stud
122-259	125479	Disk
122-275	125481	Bracket
122-276	125013	Plate
122-350	125487	Tape Reel
122-357	125488	Spacer
122-359	125490	Ratchet
122-364	125492	Bracket
122-365	125493	Punch Pin
122-366	125494	Punch Pin
122-369	125495	Guide Plate
122-374	125499	Punch Bar
122-375	125500	Punch Bar
122-376	125501	Punch Bar
122-377	125502	Punch Bar
122-378	125503	Punch Bar
122-380	125504	Lever
122-381	125505	Contact
122-382	125506	Bail
122-383	125507	Key Lever
122-384	112640	Die Block
122-386	125508	Bail Assem.
122-389	125511	Pawl Assem.
122-390	125512	Contact Assem.
122-396	125514	Hammer Assem.
122-431	125548	Paper Keytop
122-432	125549	Paper Keytop
122-433	125550	Paper Keytop
122-434	125551	Paper Keytop
122-435	125552	Paper Keytop
122-438	125555	Head
122-451	125560	Lever Assem.
122-452	125561	Lever Assem.
122-453	125562	Cable Assem.
122-454	125563	Cable
122-459	125565	Paper Keytop
122-460	125566	Paper Keytop
122-461	125567	Paper Keytop
122-462	125568	Paper Keytop
122-463	125569	Paper Keytop
122-464	125570	Paper Keytop
122-465	125571	Paper Keytop
122-466	125572	Paper Keytop
122-467	125573	Paper Keytop
122-468	125574	Paper Keytop
122-469	125575	Paper Keytop
122-470	125576	Paper Keytop
122-471	125577	Paper Keytop
122-472	125578	Paper Keytop
122-473	125579	Paper Keytop
122-474	125580	Paper Keytop
122-475	125581	Paper Keytop
122-476	125582	Paper Keytop
122-477	125583	Paper Keytop
122-478	125584	Paper Keytop
122-479	125585	Paper Keytop
122-480	125586	Paper Keytop
122-481	125587	Paper Keytop
122-482	125588	Paper Keytop
122-483	125589	Paper Keytop
122-484	125590	Paper Keytop
122-511	125594	Guide Assem.
122-528	125596	Key Lever Assem.
122-529	125597	Key Lever Assem.
122-530	125598	Key Lever Assem.
122-531	125599	Key Lever Assem.
122-532	125600	Key Lever Assem.
122-533	125601	Key Lever Assem.
122-534	125602	Key Lever Assem.
122-535	125603	Key Lever Assem.
122-536	125604	Key Lever Assem.
122-537	125605	Key Lever Assem.
122-538	125606	Key Lever Assem.
122-539	125607	Key Lever Assem.
122-540	125608	Key Lever Assem.
122-541	125609	Key Lever Assem.
122-542	125610	Key Lever Assem.
122-543	125611	Key Lever Assem.
122-544	125612	Key Lever Assem.
122-545	125613	Key Lever Assem.
122-546	125614	Key Lever Assem.
122-547	125615	Key Lever Assem.
122-548	125616	Key Lever Assem.
122-549	125617	Key Lever Assem.
122-550	125618	Key Lever Assem.
122-551	125619	Key Lever Assem.
122-552	125620	Key Lever Assem.
122-553	125621	Key Lever Assem.
122-554	125622	Key Lever Assem.
122-555	125623	Key Lever Assem.
122-556	125624	Key Lever Assem.
122-557	125198	Key Lever Assem.
122-558	125625	Key Lever Assem.
122-559	125626	Key Lever Assem.
122-567	125631	Hammer Assem.
122-571	125633	Guide Plate
122-575	111019	Block
122-576	125636	Plate Assem.
122-577	125637	Ratchet Assem.
122-580	125638	Paper Keytop
122-581	125639	Paper Keytop
122-582	125640	Paper Keytop
122-586	125642	Bracket Assem.
122-589	125643	Washer
122-592	125645	Guide
122-593	125646	Plate
122-594	125647	Plate
122-596	125648	Key Lever
122-597	125649	Key Lever
122-598	125650	Key Lever
122-599	125651	Key Lever
122-600	125652	Key Lever
122-601	125653	Key Lever
122-602	125654	Key Lever
122-603	125655	Key Lever
122-604	125656	Key Lever
122-605	125657	Key Lever
122-606	125658	Key Lever
122-607	125659	Key Lever
122-608	125660	Key Lever
122-609	125661	Key Lever
122-610	125662	Key Lever
122-611	125663	Key Lever
122-612	125664	Key Lever
122-613	125665	Key Lever
122-614	125666	Key Lever
122-615	125667	Key Lever
122-616	125668	Key Lever
122-617	125669	Key Lever
122-618	125670	Key Lever
122-619	125671	Key Lever

Old No.	New No.	Description
122-620	125672	Key Lever
122-621	125673	Key Lever
122-622	125674	Key Lever
122-623	125675	Key Lever
122-624	125676	Key Lever
122-625	125677	Key Lever
122-626	125678	Key Lever
122-697	125683	Bushing
122-698	125684	Lever Assem.
122-699	125685	Stud
122-700	125686	Lever Assem.
122-702	125687	Bushing
122-703	125688	Bracket Assem.
122-704	125689	Paper Keytop
122-705	125690	Paper Keytop
122-706	125691	Paper Keytop
122-707	125692	Paper Keytop
122-708	125693	Paper Keytop
122-709	125694	Paper Keytop
122-710	125695	Paper Keytop
123-7	3628	Bushing
123-8	71444	Bushing
123-36	3630	Bushing
123-37	125696	Post
123-164	3633	Bushing
123-165	3634	Bushing
123-166	3635	Washer
123-167	3636	Washer
123-244	125015	Washer
123-308	125703	Terminal
125-9	3638	Condenser
125-176	125716	Switch Box
125-197	125097	Nipple
125-198	125098	Nut
125-208	125719	Nipple
125-209	125720	Nut
125-237	125723	Fuse
125-238	125724	Fuse
126-123	125016	Grommet
138-22	110442	Screw Driver
138-23	125752	Wrench
138-25	125754	Wrench
138-26	125755	Wrench
138-27	125756	Wrench
138-28	125757	Wrench
138-30	125758	File
138-33	125760	Wrench
138-34	125761	Wrench
138-36	125763	Wrench
138-43	126242	Gauge
138-44	126243	Gauge
138-55	110443	Scale
138-58	110444	Scale
138-100	88993	Burnisher
138-125	126245	Gauge
138-126	126246	Gauge
138-127	125775	Wrench
138-128	125776	Wrench
138-129	125777	Wrench
138-137	110445	Tool
138-139	125783	Stone
200-20	3639	Washer
200-153	3640	Washer
200-214	125789	Shim
200-1032	3646	Washer
200-1134	125793	Pin
200-1139	3647	Insulator
200-1177	126251	Insulator
200-1348	125802	Washer
200-2212	3649	Washer
300-106	125814	Guide
300-107	125815	Contact Assem.
300-108	125816	Mounting Bar
300-109	125817	Mounting Bar
300-110	125818	Insulator
300-113	125820	Disk
300-121	125828	Shaft
300-128	125829	Lever
300-137	125833	Lever Guide
300-152	125844	Adj. Lever
300-170	125848	Cont. Lever
300-171	125849	Cont. Lever
300-172	125850	Cont. Lever
300-173	125851	Cont. Lever
300-174	125852	Cont. Lever
300-178	125855	Terminal
300-179	125856	Terminal Block
300-181	125858	Feed Pawl
300-201	125860	End Bracket
300-301	5556	Top Plate
300-302	125861	Feed Wheel
*300-303	125862	Bearing
300-312	125867	Bracket
300-314	125868	Detent Assem.
300-319	125871	Bracket
300-320	125872	Shaft
300-322	125873	Latch
300-400	125874	End Bracket
300-506	4707	Washer
300-510	125882	Terminal
400-3	125903	Brush
400-218	125914	Terminal
500-205	125935	Spring
700-55	125947	Screw
700-59	125948	Screw
700-71	3650	Washer
W-1238	126234	Pin
* 55083-1	126096	"T" Bar
* 55083-2	126097	"T" Bar
* 55083-3	126098	"T" Bar
* 55083-4	126099	"T" Bar
* 55083-5	126100	"T" Bar
* 55083-6	126101	"T" Bar
* 55083-7	126102	"T" Bar
* 55083-8	126103	"T" Bar
* 55083-9	126104	"T" Bar
* 55083-10	126105	"T" Bar
* 55083-11	126106	"T" Bar
* 55083-12	126107	"T" Bar
* 55083-13	126108	"T" Bar
* 55083-14	126109	"T" Bar
* 55083-15	126110	"T" Bar
* 55083-16	126111	"T" Bar
* 55083-17	126112	"T" Bar
* 55083-18	126113	"T" Bar
* 55083-20	126114	"T" Bar
* 55083-21	126115	"T" Bar
55084-A2	126156	Bar
55084-A4	126157	Bar
55084-A6	126158	Bar
55084-A8	126159	Bar
55084-A10	126160	Bar
55084-A12	126161	Bar
55084-A14	126162	Bar
55084-A16	126163	Bar
55084-A18	126164	Bar
55084-A20	126165	Bar
55084-B1	126166	Bar
55084-B3	126167	Bar
55084-B5	126168	Bar
55084-B7	126169	Bar
55084-B9	126170	Bar
55084-B11	126171	Bar
55084-B13	126172	Bar
55084-B15	126173	Bar
55084-B17	126174	Bar

*Indicates change

NEW TO OLD NUMBER CONVERSION LIST

New No.	Old No.
*1036	34-51
1157	33-1
1158	33-3
1159	33-5
1160	33-6
1161	33-7
1162	(33-10
	(33-156
1163	33-11
1164	33-14
1165	33-16
1166	33-17
1168	33-35
1169	33-37
1170	33-49
1171	33-53
1172	33-54
1173	33-64
1174	33-157
1176	33-195
1177	33-234
1179	33-238
1181	33-360
1222	33-39
1223	33-69
1263	33-4
3595	34-2
3597	34-6
3598	34-8
3599	34-9
3600	34-25
3602	34-28
3603	34-29
3604	34-50
3606	34-55
3608	35-58
3610	35-126
3614	(36-56
	(36-137
3618	61-7
3620	100-75
3621	100-85
3624	100-108
3625	S-122-39
3626	122-68
3627	S-122-234
3628	123-7
3630	123-36
3633	123-164
3634	123-165
3635	123-166
3636	123-167
3638	125-9
3639	200-20
3640	200-153
3646	200-1032
3647	200-1139
3649	200-2212
3650	700-71
4702	35-52
4703	35-86
4705	35-134
4707	300-506
4708	35-87
5475	34-5
5556	300-301
5740	33-13
5815	34-14
5816	100-74
9575	122-113
49054	33-111
*55257	34-12
70073	34-7
*71047	43-12
71444	123-8
74879	4-8
86850	33-240
87636	33-270
88993	138-100
110434	33-110
110435	34-56
110436	35-42
110437	35-70
110438	35-88
110440	36-153
110441	100-96
110442	138-22
110443	138-55
110444	138-58
110445	138-137
111019	122-575
112620	33-21
112621	33-170
112622	33-334
112623	33-335
112624	33-337
112626	34-4
112627	34-11
112628	34-64
112629	35-1
112630	35-2
112631	35-8
112632	35-33
112633	35-54
112634	35-89
112635	35-137
*112636	35-140
112640	122-384
125001	33-132
125002	33-179
125003	33-206
125005	33-280
125006	33-333
125009	34-59
125010	61-24
125011	103-27
125012	122-48
125013	122-276
125015	123-244
125016	126-123
*125092	36-131
125097	125-197
125098	125-198
125105	23-8
125108	33-2
125109	33-8
125110	33-9
125111	33-12
125112	33-15
125113	33-18
125114	33-22
125116	33-29
125117	33-32
125119	33-38
125120	33-41
125122	33-43
125124	33-50
125126	33-57
125127	33-58
125130	33-63
125131	33-65
125132	33-70
125138	33-85
125139	33-86
125141	33-89
125142	33-98
125143	33-101
125146	33-114
125149	33-130
125154	33-153
125155	33-158
125157	33-163
125159	33-168
125162	33-180
125163	33-185
125164	33-193
125165	33-194
125167	33-197
125168	33-198
125170	33-207
125171	33-208
125176	33-213
125178	33-224
125179	33-225
125180	33-227
125189	33-252
125190	33-253
125191	33-254
125192	33-255
125193	33-257
125195	33-271
125197	33-276
125198	122-557
125199	33-278
125200	33-282
125201	33-283
125205	33-296
125206	33-336
125209	33-341
125211	33-344
125212	33-346
125213	33-348
125215	33-350
125217	33-362
125218	34-1
125220	34-10
125221	34-13
125222	34-16
125223	34-19
125224	34-24
125225	34-27
125227	34-39
125228	34-41
125229	34-48
125231	34-58
125233	34-61
125235	34-66
125236	35-13
125239	35-24
125241	35-27
125242	35-28
125243	35-34
125244	35-40
125246	35-47
125248	35-53
125250	35-68
125251	35-69
125252	35-71
125253	35-72
125254	35-78
125255	35-80
125257	35-85
125258	35-99
125262	35-116
125267	35-132
125268	35-133
125269	36-120
125272	36-24
125273	36-28
125276	36-39
125277	36-45
125278	36-51
125280	36-73
125281	36-80
125288	36-110
125290	36-114
125292	36-132
125296	36-147
125297	36-150
125300	36-164
125306	43-10
125307	46-3
125314	61-10
125317	61-25
125328	100-80
125330	100-84
125339	100-112
125341	100-120
125373	112-7
125379	122-5
125380	122-11
125381	122-12
125382	122-18
125383	S-122-19
125384	S-122-20
125385	S-122-21
125386	S-122-22
125387	S-122-23
125388	S-122-24
125389	122-25
125390	122-26
125391	122-27
125392	122-28
125393	122-29
125394	122-35
125395	122-36
125396	S-122-37
125397	S-122-38
125398	S-122-40
125400	122-42
125401	122-43
125402	122-46
125403	122-49
125404	122-50
125405	122-51
125406	122-52
125407	122-53
125408	122-54
125409	122-55
125410	122-56
125411	122-57
125412	122-58
125413	122-60
125414	122-61
125415	122-62
125416	122-63
125417	122-65
125418	122-67
125419	S-122-69
125421	122-84
125422	122-86
125423	122-88

*Indicates change

New No.	Old No.
125424	122-89
125425	122-94
125426	122-95
125427	122-97
125428	122-100
125429	122-101
125430	122-102
125431	122-106
125433	122-107
125434	122-108
125438	122-116
125439	122-117
125440	122-118
125441	122-119
125443	122-121
125444	122-124
125445	122-126
125446	122-127
125447	122-128
125448	122-129
125449	S-122-130
125450	122-133
125451	S-122-134
125452	122-135
125453	S-122-136
125454	122-137
125456	122-140
125457	122-143
125458	122-146
125459	122-147
125463	122-194
125464	122-195
125465	122-196
125467	122-242
125468	122-244
125469	122-245
125470	122-246
125471	122-247
125472	122-249
125479	122-259
125481	122-275
125487	122-350
125488	122-357
125490	122-359
125492	122-364
125493	122-365
125494	122-366
125495	122-369
125499	122-374
125500	122-375
125501	122-376
125502	122-377
125503	122-378
125504	122-380
125505	122-381
125506	122-382
125507	122-383
125508	122-386
125511	122-389
125512	122-390
125514	122-396
125548	122-431
125549	122-432
125550	122-433
125551	122-434
125552	122-435
125555	122-438
125560	122-451
125561	122-452
125562	122-453
125563	122-454
125565	122-459
125566	122-460
125567	122-461
125568	122-462
125569	122-463
125570	122-464
125571	122-465
125572	122-466
125573	122-467
125574	122-468
125575	122-469
125576	122-470
125577	122-471
125578	122-472
125579	122-473
125580	122-474
125581	122-475
125582	122-476
125583	122-477
125584	122-478
125585	122-479
125586	122-480
125587	122-481
125588	122-482
125589	122-483
125590	122-484
125594	122-511
125596	122-528
125597	122-529
125598	122-530
125599	122-531
125600	122-532
125601	122-533
125602	122-534
125603	122-535
125604	122-536
125605	122-537
125606	122-538
125607	122-539
125608	122-540
125609	122-541
125610	122-542
125611	122-543
125612	122-544
125613	122-545
125614	122-546
125615	122-547
125616	122-548
125617	122-549
125618	122-550
125619	122-551
125620	122-552
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125625	122-558
125626	122-559
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125642	122-586
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125646	122-593
125647	122-594
125648	122-596
125649	122-597
125650	122-598
125651	122-599
125652	122-600
125653	122-601
125654	122-602
125655	122-603
125656	122-604
125657	122-605
125658	122-606
125659	122-607
125660	122-608
125661	122-609
125662	122-610
125663	122-611
125664	122-612
125665	122-613
125666	122-614
125667	122-615
125668	122-616
125669	122-617
125670	122-618
125671	122-619
125672	122-620
125673	122-621
125674	122-622
125675	122-623
125676	122-624
125677	122-625
125678	122-626
125683	122-697
125684	122-698
125685	122-699
125686	122-700
125687	122-702
125688	122-703
125689	122-704
125690	122-705
125691	122-706
125692	122-707
125693	122-708
125694	122-709
125695	122-710
125696	123-37
125703	123-308
125716	125-176
125719	125-208
125720	125-209
125723	125-237
125724	125-238
125752	138-23
125754	138-25
125755	138-26
125756	138-27
125757	138-28
125758	138-30
125760	138-33
125761	138-34
125763	138-36
125775	138-127
125776	138-128
125777	138-129
125783	138-139
125789	200-214
125793	200-1134
125802	200-1348
125814	300-106
125815	300-107
125816	300-108
125817	300-109
125818	300-110
125820	300-113
125828	300-121
125829	300-128
125833	300-137
125844	300-152
125848	300-170
125849	300-171
125850	300-172
125851	300-173
125852	300-174
125855	300-178
125856	300-179
125858	300-181
125860	300-201
125861	300-302
125862	300-303
125867	300-312
125868	300-314
125871	300-319
125872	300-320
125873	300-322
125874	300-400
125882	300-510
125903	400-3
125914	400-218
125935	500-205
125947	700-55
125948	700-59
126096	55083-1
126097	55083-2
126098	55083-3
126099	55083-4
126100	55083-5
126101	55083-6
126102	55083-7
126103	55083-8
126104	55083-9
126105	55083-10
126106	55083-11
126107	55083-12
126108	55083-13
126109	55083-14
126110	55083-15
126111	55083-16
126112	55083-17
126113	55083-18
126114	55083-20
126115	55083-21
126156	55084-A2
126157	55084-A4
126158	55084-A6
126159	55084-A8
126160	55084-A10
126161	55084-A12
126162	55084-A14
126163	55084-A16
126164	55084-A18
126165	55084-A20
126166	55084-B1
126167	55084-B3
126168	55084-B5
126169	55084-B7
126170	55084-B9
126171	55084-B11
126172	55084-B13
126173	55084-B15
126174	55084-B17
126234	W-1238
126242	138-43
126243	138-44
126245	138-125
126246	138-126
126251	200-1177

ADDITION TO BULLETINS 148 AND 166 (ISSUES 2)
DESCRIPTION AND ADJUSTMENTS
PERFORATOR TRANSMITTER (MODEL 15)

Add the following adjustment and note immediately preceding the "Cam Pulsing Contact Assembly Adjustments (Figure 33)" on Page 15 of Bulletin 148 and Page 17 of Bulletin 166:

The following adjustment applies only to perforator transmitters equipped with a lock loop backstop screw as shown on Figure 15A.

LOCK LOOP BACKSTOP SCREW ADJUSTMENT

With the lock loop held against the backstop screw there should be .020" to .060" clearance between the lock loop roller and the lock loop cam when the transmitting cam sleeve is rotated to make this clearance a minimum. Adjust by positioning the backstop screw. See Figure 15A.

NOTE: The following cam pulsing contact assembly adjustments apply only to perforator transmitters equipped with the 89974 old style assembly which includes double pulsing contacts operating in conjunction with the fourth and fifth transmitting cams. See Figure 33.

Add the following note and adjustments immediately following the "Cam Pulsing Contact Assembly Adjustments (Figure 33)" on Page 16 of Bulletin 148 and Page 18 of Bulletin 166:

NOTE: The following cam pulsing contact assembly adjustments apply only to perforator transmitters equipped with the 112570 new style assembly including a single contact and hinged cam follower as shown on Figure 33D.

CAM PULSING CONTACT ASSEMBLY ADJUSTMENTS

(1) The cam follower should ride centrally on the cam throughout a complete revolution of the cam cylinder and the contact points should be in alignment. To adjust, loosen the contact pile-up mounting screws and position the assembly. Tighten the mounting screws.

(2) With the cam follower resting on the high part of the cam make the following measurements and adjustments:

(a) There should be some clearance not more than .010" between the short contact spring and its stiffener, measured at a point closest to the contact. To adjust, bend the stiffener. See Figure 33C.

(b) Hook an 8 oz. scale over the upper contact spring at the contact point and pull vertically upward. It should require a pull of 2 to 4 ozs. to separate the contact points. Also, the contact surfaces should meet squarely. To adjust, bend the upper contact spring. Recheck 2a.

(3) Rotate the transmitting cam assembly until the tip of the cam follower falls into the cam indent to make the following measurements and adjustments:

(a) There should be .010" to .020" clearance between the contact points. To adjust, bend the lower stiffener. See Figure 33D.

(b) The long contact spring should exert some pressure, not more than 2 ozs., against its stiffener. Measure by hooking an 8 oz. scale under the spring at the contact point and pulling vertically upward. To adjust, bend the long contact spring. Recheck 3a.

(4) With the cam follower resting on the high part of the cam there should be at least .010" clearance between the lower stiffener and the cam follower. See Figure 33C. If this requirement is not met it may be necessary to bend both stiffeners upward and completely readjust the assembly.

* * *

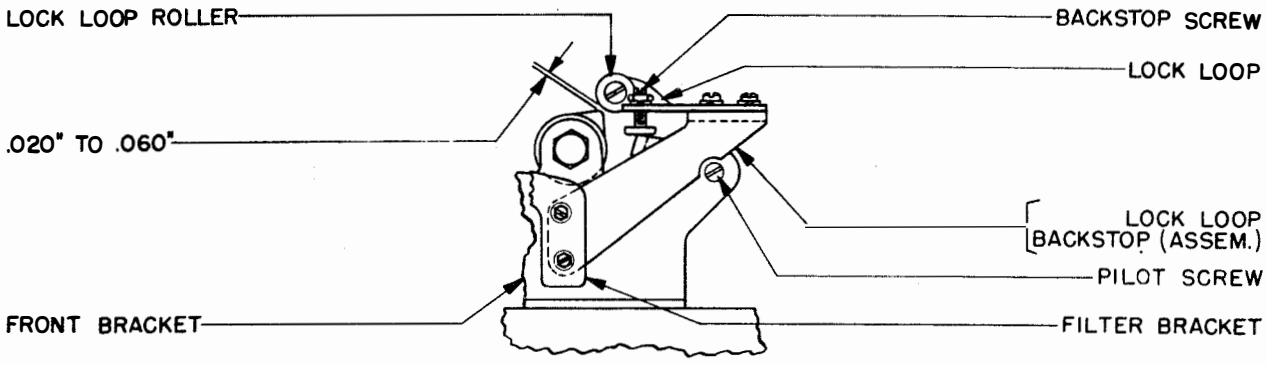


FIGURE 15A

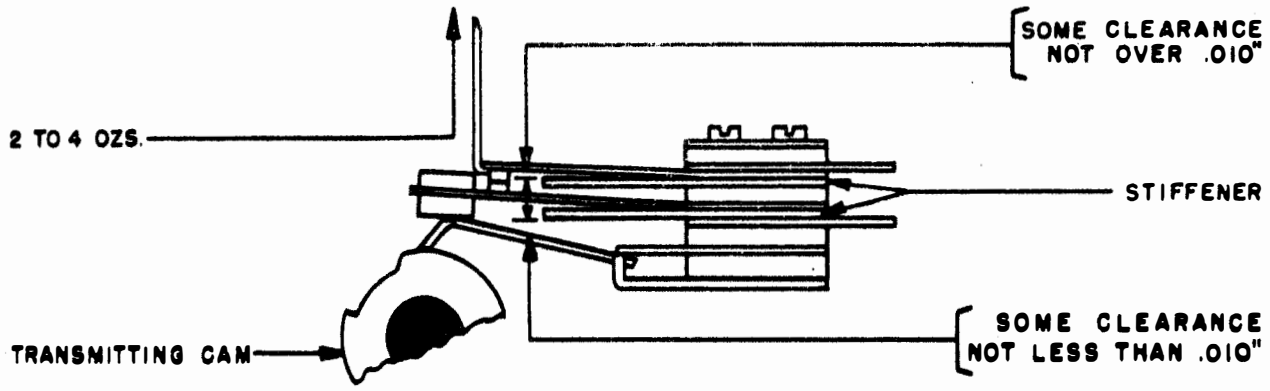


FIGURE 33C

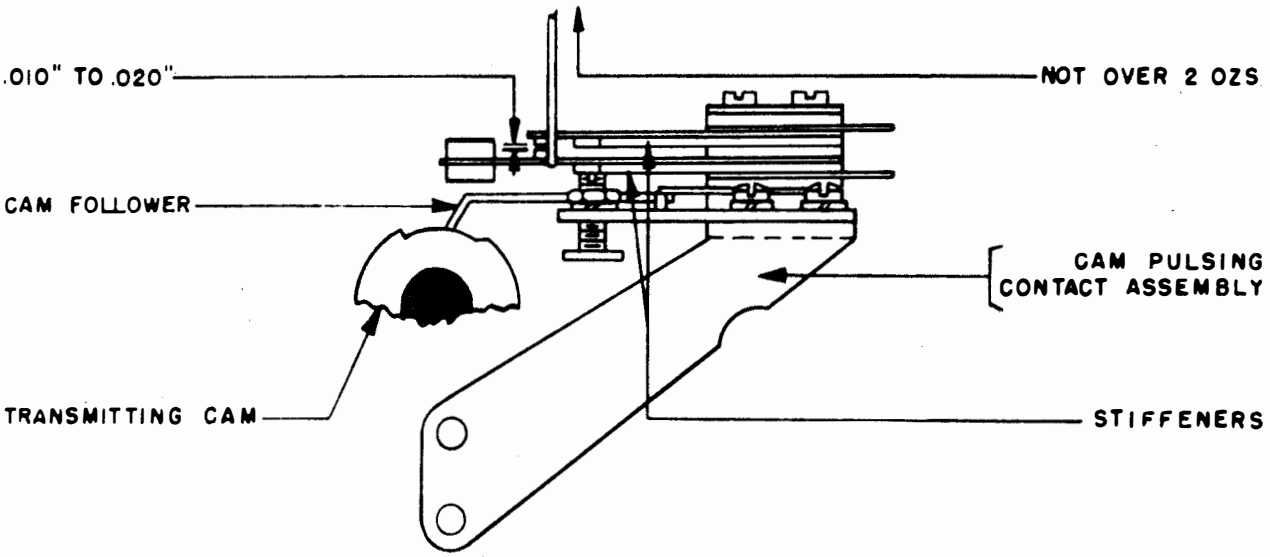


FIGURE 33D

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 bearings. 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 oiler 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.

CHANGES IN BULLETINS 148 AND 166 (ISSUE 2) DESCRIPTION AND ADJUSTMENTS PERFORATOR TRANSMITTER (MODEL 15)

PAGE 11, Bulletin 148

TRANSMITTING CONTACT SPRING ANDJUSTMENTS (Figure 15)

Add the following requirement to this adjustment:

"START-STOP contact gap may be .015" to .025".

PAGE 17, Bulletin 148
PAGE 18, Bulletin 166

TAPE TENSION LEVER SPRING TENSION ADJUSTMENT

In order to facilitate the starting of tape through the perforating unit and to improve tape feeding a stronger spring (110974) has been substituted for the 84023 spring formerly furnished. The spring tension requirement for the new spring should be "14 to 16 ozs." instead of "5 to 5-1/2 ozs."

The new spring is formed with 15 turns of wire as compared to 18 turns for the old spring.

Teletype Corporation

EE-628
Issue 1
August, 1948

CHANGES IN BULLETINS

148, Issue 2 - Perforator Transmitter (Model 15), Page 10
160, Issue 1 - Type Bar Page Printer (Model 20), Page 36
166, Issue 2 - Perforator Transmitter (Model 15, Page 11

On units equipped with an 8-1/2" spacer bar, the first paragraph of the "UNIVERSAL BAR BRACKET ADJUSTMENTS" should be modified to specify ".060" to .090" between the universal bar and the spacer key lever." The .060" to .080" requirement still applies to other key levers.

* * *

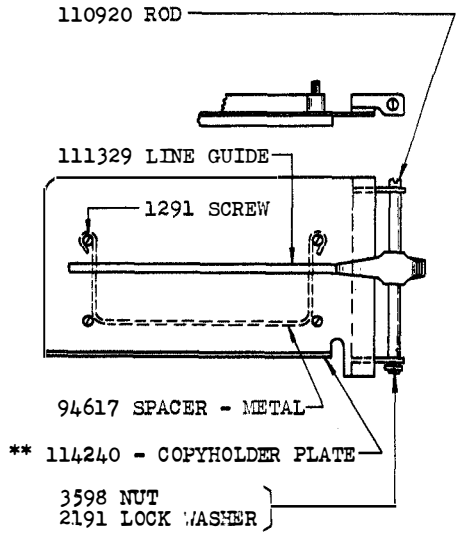
CHANGES AND ADDITIONS
TO PARTS BULLETINS

1025	ISSUE 3	1037	ISSUE 4	1082	ISSUE 2	1110	ISSUE 2
1028	ISSUE 2	1048	ISSUE 2	1088	ISSUE 2	1114	ISSUE 1
1030	ISSUE 2	1063	ISSUE 2	1090	ISSUE 2	1117	ISSUE 2
1031	ISSUE 3	1067	ISSUE 2	1094	ISSUE 2		

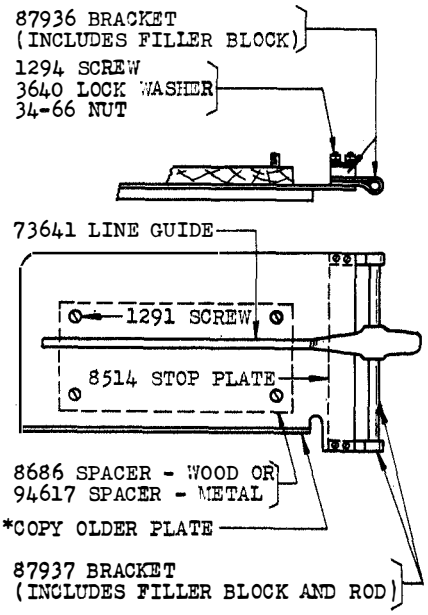
THE 6" COPYHOLDER ASSEMBLIES SHOWN IN THE ABOVE BULLETINS HAVE BEEN REDESIGNED AND ASSIGNED NEW ASSEMBLY NUMBERS. THE SKETCHES BELOW ILLUSTRATE THE DIFFERENCE BETWEEN THE NEW AND OLD ASSEMBLIES, WHICH ARE INTERCHANGEABLE, AND THE CHART LISTS THE NEW AND OLD ASSEMBLY NUMBERS.

THE 8686 SPACER (WOOD) IS NO LONGER AVAILABLE, 94617 SPACER (METAL) WILL BE FURNISHED INSTEAD.

THE 73641 LINE GUIDE HAS BEEN REPLACED BY 111329 LINE GUIDE, WHICH HAS THE CLIP HANDLE BENT FORWARD TO FACILITATE OPERATING THE GUIDE FROM THE FRONT RATHER THAN FROM THE SIDE.



NEW STYLE 6" COPYHOLDER (ASSEM.)



OLD STYLE 6" COPYHOLDER (ASSEM.)

NEW ASSEMBLY		FINISH		OLD ASSEMBLY	
NUMBER	SPACER	COLOR	SUFFIX	NUMBER	SPACER
115700AA	METAL	BLACK WRINKLE	AA	91752	WOOD
115700AB	METAL	GRAY GREEN WRINKLE	AB	—	METAL
115700AC	METAL	LIGHT BROWN WRINKLE	AC	101868	WOOD
115700AD	METAL	DARK BROWN WRINKLE	AD	113419	METAL
115700BA	METAL	BLACK HIGH GLOSS	BA	74833	WOOD
115700BA	METAL	BLACK HIGH GLOSS	BA	101276	METAL
115700BC	METAL	OLIVE GREEN	BC	80888	WOOD
115700CA	METAL	WALNUT	CA	74832	WOOD
115700CA	METAL	WALNUT	CA	101275	METAL
115700CB	METAL	MAHOGANY	CB	81881	WOOD
115700CB	METAL	MAHOGANY	CB	***84922	WOOD
115700CB	METAL	MAHOGANY	CB	101277	METAL

* THE OLD STYLE COPYHOLDER PLATE IS NO LONGER AVAILABLE. WHEN IT BECOMES NECESSARY TO REPLACE AN OLD STYLE COPYHOLDER PLATE A NEW STYLE COPYHOLDER PLATE ALONG WITH ONE 110920 ROD, ONE 2191 LOCK WASHER AND ONE 3598 NUT SHOULD BE ORDERED INSTEAD.

** ON ORDERS FOR NEW STYLE COPYHOLDER PLATES, CUSTOMER MUST INDICATE THE COLOR OF FINISH DESIRED BY ADDING A TWO-LETTER SUFFIX TO THE COPYHOLDER PLATE PART NUMBER. FOR EXAMPLE: ORDER "114240CA COPYHOLDER PLATE" WHEN A WALNUT FINISH COPYHOLDER PLATE IS DESIRED. (SEE "FINISH" COLUMN IN CHART ABOVE FOR FINISHES AND THEIR RESPECTIVE SUFFIXES.

*** THE 84922 COPYHOLDER ASSEMBLY (USED ON WHEATSTONE PERFORATOR COVER - WOOD) WAS LIKE 81881 COPYHOLDER ASSEMBLY, EXCEPT HAVING LONGER MOUNTING SCREWS. IN THE FUTURE, A STANDARD COPYHOLDER ASSEMBLY WILL BE FURNISHED IN PLACE OF 84922, AND THE LONGER MOUNTING SCREWS WILL BE INCLUDED WITH THE WHEATSTONE PERFORATOR COVER.

TELETYPE CORPORATION
CHICAGO, ILLINOIS, U.S.A.

EE-525
ISSUE 1
JANUARY, 1946

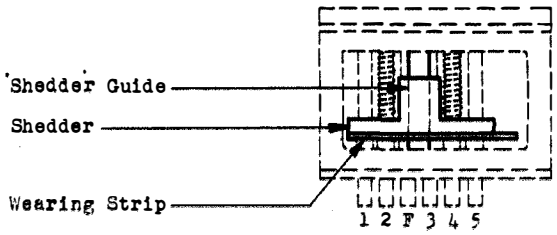
CHANGES AND ADDITIONS TO PARTS BULLETINS

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		

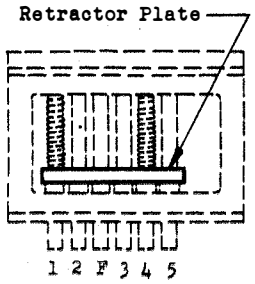
The punch block assemblies shown in the above bulletins have been redesigned and assigned new assembly numbers. Old style punch block assemblies are no longer furnished. On orders for old style blocks, new style assemblies which are fully interchangeable with the old style will be furnished.

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 PUNCH BLOCK
(Spring on punches 2 & 4)



NEW STYLE PUNCH BLOCK
(Spring on punches 1 & 4)

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				
122-384	Perf. & nontyp. Reperf. (5 mag.)	5	Advanced	Cup Ground	122-367	122-368	112640	110902
122-575	Perf. & nontyp. Reperf. (5 mag.)	5	Straight	Cup Ground	122-367	122-574	111019	110901
77987	Perforator	6	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. Reperf.	6	Advanced	V Notch	75121	75120	112645	110904
86113	Nontyp. Reperf.	5	Straight	V Notch	75121	77986	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. Reperf.	5	Straight	Cup Ground	122-367	122-574	111023	110901
97472	Nontyp. Reperf.	5	Advanced	V Notch	75121	75120	112648	110902
102790	Typ. Reperf.	5	Straight	Cup Ground	122-367	122-574	111024	110901
104573	Typ. Reperf.	5	Advanced	Cup Ground	122-367	122-368	112649	110902

CHANGES IN PARTS BULLETINS

1052 (Issue 1)	1080 (Issue 1)	1090 (Issue 2)
1064 (Issue 1)	1082 (Issue 2)	1108 (Issue 1)
1067 (Issue 2)	1088 (Issue 2)	1117 (Issue 2)

On the perforators, reperforators, perforator transmitters and reperforator transmitters referred to in the above bulletins, the 122-577 feed roll (straight feed hole) has been replaced by a 110682 feed roll (straight feed hole).

The 122-359 feed roll (advance feed hole) has been replaced by a 110683 feed roll (advance feed hole).

The new feed rolls are designed to eliminate the use of the 81598 bushing.

110682 is equivalent to 122-577 plus 81598

110683 is equivalent to 122-359 plus 81598

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:

Old Designation	New Designation	Description
M121	121M	Magnet
PK10718	10718PK	Carton
RM31571	31571RM	Wire
121	121B	Bulletin
EE121	121EE	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 numberically 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.

*Indicates change
**Indicates addition

OLD TO NEW NUMBER CONVERSION LIST

Old No.	New No.	Description
4-8	74879	Stud
23-8	125105	Terminal
33-1	1157	Screw
33-2	125108	Screw
33-3	1158	Screw
33-4	1263	Screw
33-5	1159	Screw
33-6	1160	Screw
33-7	1161	Screw
33-8	125109	Screw
33-9	125110	Screw
33-10	1162	Screw
33-11	1163	Screw
33-12	125111	Screw
33-13	5740	Screw
33-14	1164	Screw
33-15	125112	Screw
33-16	1165	Screw
33-17	1166	Screw
33-18	125113	Screw
33-21	112620	Screw
33-22	125114	Screw
33-29	125116	Screw
33-32	125117	Screw
33-35	1168	Screw
33-37	1169	Screw
33-38	125119	Screw
33-39	1222	Screw
33-41	125120	Screw
33-43	125122	Screw
33-49	1170	Screw
33-50	125124	Screw
33-53	1171	Screw
33-54	1172	Screw
33-57	125126	Screw
33-58	125127	Screw
33-63	125130	Screw
33-64	1173	Screw
33-65	125131	Screw
33-69	1223	Screw
33-70	125132	Screw
33-85	125138	Screw
33-86	125139	Screw
33-89	125141	Screw
33-98	125142	Screw
33-101	125143	Screw
33-110	110434	Screw
33-111	49054	Screw
33-114	125146	Screw
33-130	125149	Screw
33-132	125001	Screw
33-153	125154	Screw
33-156	1162	Screw
33-157	1174	Screw
33-158	125155	Screw
33-163	125157	Screw
33-168	125159	Screw
33-170	112621	Screw
33-179	125002	Screw
33-180	125162	Screw
33-185	125163	Screw
33-193	125164	Screw
33-194	125165	Screw
33-195	1176	Screw
33-197	125167	Screw
33-198	125168	Screw
33-206	125003	Screw
33-207	125170	Screw
33-208	125171	Screw
33-213	125176	Screw
33-224	125178	Screw
33-225	125179	Screw
33-227	125180	Screw
33-234	1177	Screw
33-238	1179	Screw
33-240	86850	Screw
33-252	125189	Screw
33-253	125190	Screw
33-254	125191	Screw
33-255	125192	Screw
33-257	125193	Screw
33-270	87636	Screw
33-271	125195	Screw
33-276	125197	Screw
33-278	125199	Screw
33-280	125005	Screw
33-282	125200	Screw
33-283	125201	Screw
33-296	125205	Screw
33-333	125006	Screw
33-334	112622	Screw
33-335	112623	Screw
33-336	125206	Screw
33-337	112624	Screw
33-341	125209	Screw
33-344	125211	Screw
33-346	125212	Screw
33-348	125213	Screw
33-350	125215	Screw
33-360	1181	Screw
33-362	125217	Screw
34-1	125218	Nut
34-2	3595	Nut
34-4	112626	Nut
34-5	5475	Nut
34-6	3597	Nut
34-7	70073	Nut
34-8	3598	Nut
34-9	3599	Nut
34-10	125220	Nut
34-11	112627	Nut
*34-12	55257	Nut
34-13	125221	Nut
34-14	5815	Nut
34-16	125222	Nut
34-19	125223	Nut
34-24	125224	Nut
34-25	3600	Nut
34-27	125225	Nut
34-28	3602	Nut
34-29	3603	Nut
34-39	125227	Nut
34-41	125228	Nut
34-48	125229	Nut
34-50	3604	Nut
*34-51	1036	Nut
34-55	3606	Nut
34-56	110435	Nut
34-58	125231	Nut
34-59	125009	Nut
34-61	125233	Nut
34-64	112628	Nut
34-66	125235	Nut
35-1	112629	Spring
35-2	112630	Spring
35-8	112631	Spring
35-13	125236	Spring
35-24	125239	Spring
35-27	125241	Spring
35-28	125242	Spring
35-33	112632	Spring
35-34	125243	Spring
35-40	125244	Spring
35-42	110436	Spring
35-47	125246	Spring
35-52	4702	Spring
35-53	125248	Spring
35-54	112633	Spring
35-58	3608	Spring
35-68	125250	Spring
35-69	125251	Spring
35-70	110437	Spring
35-71	125252	Spring
35-72	125253	Spring
35-78	125254	Spring
35-80	125255	Spring
35-85	125257	Spring
35-86	4703	Spring
35-87	4708	Spring
35-88	110438	Spring
35-89	112634	Spring
35-99	125258	Spring
35-116	125262	Spring
35-126	3610	Spring
35-132	125267	Spring
35-133	125268	Spring
35-134	4705	Spring
35-137	112635	Spring
*35-140	112636	Spring
36-24	125272	Pin
36-28	125273	Pin
36-39	125276	Pin
36-45	125277	Pin
36-51	125278	Pin
36-56	3614	Pin
36-73	125280	Pin
36-80	125281	Pin
36-110	125288	Pin
36-114	125290	Pin
36-120	125269	Pin
*36-131	125092	Dowel
36-132	125292	Pin
36-137	3614	Pin
36-147	125296	Pin
36-150	125297	Pin
36-153	110440	Pin
36-164	125300	Pin
43-10	125306	Stop
*43-12	71047	Washer
46-3	125307	Washer
61-7	3618	Insulator
61-10	125314	Screw
61-24	125010	Washer
61-25	125317	Insulator
100-74	5816	Washer
100-75	3620	Washer
100-80	125328	Bushing
100-84	125330	Screw
100-85	3621	Terminal
100-96	110441	Shim
100-108	3624	Washer
100-112	125339	Terminal
100-120	125341	Bushing
103-27	125011	Washer
112-7	125373	Screw
122-5	125379	Post
122-11	125380	Chute
122-12	125381	Stud
122-18	125382	Cable
S-122-19	125383	Bracket
S-122-20	125384	Bracket
S-122-21	125385	Bracket

*Indicates change

Old No.	New No.	Description
S-122-22	125386	Bracket
S-122-23	125387	Bracket
S-122-24	125388	Bracket
122-25	125389	Bracket
122-26	125390	Washer
122-27	125391	Shaft
122-28	125392	Stop
122-29	125393	Pin
122-35	125394	Plate
122-36	125395	Pin
S-122-37	125396	Guide
S-122-38	125397	Bar
S-122-39	3625	Shaft
S-122-40	125398	Bracket
122-42	125400	Gear
122-43	125401	Gear
122-46	125402	Post
122-48	125012	Socket
122-49	125403	Fitting
122-50	125404	Lamp
122-51	125405	Bell Crank
122-52	125406	Bell Crank
122-53	125407	Bell Crank
122-54	125408	Bell Crank
122-55	125409	Bell Crank
122-56	125410	Bushing
122-57	125411	Bushing
122-58	125412	Stud
122-60	125413	Ratchet
122-61	125414	Post
122-62	125415	Pin
122-63	125416	Post
122-65	125417	Stud
122-67	125418	Post
122-68	3626	Foot
S-122-69	125419	Stop
122-84	125421	Pin
122-86	125422	Pin
122-88	125423	Solenoid Assem.
122-89	125424	Bracket
122-94	125425	Terminal Brd.
122-95	125426	Insulator
122-97	125427	Bushing
122-100	125428	Plate
122-101	125429	Head
122-102	125430	Post
122-106	125431	Bracket Assem.
122-107	125433	Bracket
122-108	125434	Bushing
122-113	9575	Screw
122-116	125438	Lever Assem.
122-117	125439	Lever
122-118	125440	Terminal
122-119	125441	Contact Assem.
122-121	125443	Contact
122-124	125444	Spring
122-126	125445	Insulator
122-127	125446	Stud
122-128	125447	Bracket Assem.
122-129	125448	Bracket
S-122-130	125449	Lever Assem.
122-133	125450	Post
S-122-134	125451	Bell Crank
122-135	125452	Washer
S-122-136	125453	Bracket
122-137	125454	Gear Assem.
122-140	125456	Stud
122-143	125457	Connector
122-146	125458	Bearing
122-147	125459	Bushing
122-194	125463	Disk
122-195	125464	Disk
122-196	125465	Bezel
S-122-234	3627	Bar
122-242	125467	Lever Assem.
122-244	125468	Post
122-245	125469	Pawl
122-246	125470	Post
122-247	125471	Disk Assem.
122-249	125472	Stud
122-259	125479	Disk
122-275	125481	Bracket
122-276	125013	Plate
122-350	125487	Tape Reel
122-357	125488	Spacer
122-359	125490	Ratchet
122-364	125492	Bracket
122-365	125493	Punch Pin
122-366	125494	Punch Pin
122-369	125495	Guide Plate
122-374	125499	Punch Bar
122-375	125500	Punch Bar
122-376	125501	Punch Bar
122-377	125502	Punch Bar
122-378	125503	Punch Bar
122-380	125504	Lever
122-381	125505	Contact
122-382	125506	Bail
122-383	125507	Key Lever
122-384	112640	Die Block
122-386	125508	Bail Assem.
122-389	125511	Pawl Assem.
122-390	125512	Contact Assem.
122-396	125514	Hammer Assem.
122-431	125548	Paper Keytop
122-432	125549	Paper Keytop
122-433	125550	Paper Keytop
122-434	125551	Paper Keytop
122-435	125552	Paper Keytop
122-438	125555	Head
122-451	125560	Lever Assem.
122-452	125561	Lever Assem.
122-453	125562	Cable Assem.
122-454	125563	Cable
122-459	125565	Paper Keytop
122-460	125566	Paper Keytop
122-461	125567	Paper Keytop
122-462	125568	Paper Keytop
122-463	125569	Paper Keytop
122-464	125570	Paper Keytop
122-465	125571	Paper Keytop
122-466	125572	Paper Keytop
122-467	125573	Paper Keytop
122-468	125574	Paper Keytop
122-469	125575	Paper Keytop
122-470	125576	Paper Keytop
122-471	125577	Paper Keytop
122-472	125578	Paper Keytop
122-473	125579	Paper Keytop
122-474	125580	Paper Keytop
122-475	125581	Paper Keytop
122-476	125582	Paper Keytop
122-477	125583	Paper Keytop
122-478	125584	Paper Keytop
122-479	125585	Paper Keytop
122-480	125586	Paper Keytop
122-481	125587	Paper Keytop
122-482	125588	Paper Keytop
122-483	125589	Paper Keytop
122-484	125590	Paper Keytop
122-511	125594	Guide Assem.
122-528	125596	Key Lever Assem.
122-529	125597	Key Lever Assem.
122-530	125598	Key Lever Assem.
122-531	125599	Key Lever Assem.
122-532	125600	Key Lever Assem.
122-533	125601	Key Lever Assem.
122-534	125602	Key Lever Assem.
122-535	125603	Key Lever Assem.
122-536	125604	Key Lever Assem.
122-537	125605	Key Lever Assem.
122-538	125606	Key Lever Assem.
122-539	125607	Key Lever Assem.
122-540	125608	Key Lever Assem.
122-541	125609	Key Lever Assem.
122-542	125610	Key Lever Assem.
122-543	125611	Key Lever Assem.
122-544	125612	Key Lever Assem.
122-545	125613	Key Lever Assem.
122-546	125614	Key Lever Assem.
122-547	125615	Key Lever Assem.
122-548	125616	Key Lever Assem.
122-549	125617	Key Lever Assem.
122-550	125618	Key Lever Assem.
122-551	125619	Key Lever Assem.
122-552	125620	Key Lever Assem.
122-553	125621	Key Lever Assem.
122-554	125622	Key Lever Assem.
122-555	125623	Key Lever Assem.
122-556	125624	Key Lever Assem.
122-557	125198	Key Lever Assem.
122-558	125625	Key Lever Assem.
122-559	125626	Key Lever Assem.
122-567	125631	Hammer Assem.
122-571	125633	Guide Plate
122-575	111019	Block
122-576	125636	Plate Assem.
122-577	125637	Ratchet Assem.
122-580	125638	Paper Keytop
122-581	125639	Paper Keytop
122-582	125640	Paper Keytop
122-586	125642	Bracket Assem.
122-589	125643	Washer
122-592	125645	Guide
122-593	125646	Plate
122-594	125647	Plate
122-596	125648	Key Lever
122-597	125649	Key Lever
122-598	125650	Key Lever
122-599	125651	Key Lever
122-600	125652	Key Lever
122-601	125653	Key Lever
122-602	125654	Key Lever
122-603	125655	Key Lever
122-604	125656	Key Lever
122-605	125657	Key Lever
122-606	125658	Key Lever
122-607	125659	Key Lever
122-608	125660	Key Lever
122-609	125661	Key Lever
122-610	125662	Key Lever
122-611	125663	Key Lever
122-612	125664	Key Lever
122-613	125665	Key Lever
122-614	125666	Key Lever
122-615	125667	Key Lever
122-616	125668	Key Lever
122-617	125669	Key Lever
122-618	125670	Key Lever
122-619	125671	Key Lever

Old No.	New No.	Description
122-620	125672	Key Lever
122-621	125673	Key Lever
122-622	125674	Key Lever
122-623	125675	Key Lever
122-624	125676	Key Lever
122-625	125677	Key Lever
122-626	125678	Key Lever
122-697	125683	Bushing
122-698	125684	Lever Assem.
122-699	125685	Stud
122-700	125686	Lever Assem.
122-702	125687	Bushing
122-703	125688	Bracket Assem.
122-704	125689	Paper Keytop
122-705	125690	Paper Keytop
122-706	125691	Paper Keytop
122-707	125692	Paper Keytop
122-708	125693	Paper Keytop
122-709	125694	Paper Keytop
122-710	125695	Paper Keytop
123-7	3628	Bushing
123-8	71444	Bushing
123-36	3630	Bushing
123-37	125696	Post
123-164	3633	Bushing
123-165	3634	Bushing
123-166	3635	Washer
123-167	3636	Washer
123-244	125015	Washer
123-308	125703	Terminal
125-9	3638	Condenser
125-176	125716	Switch Box
125-197	125097	Nipple
125-198	125098	Nut
125-208	125719	Nipple
125-209	125720	Nut
125-237	125723	Fuse
125-238	125724	Fuse
126-123	125016	Grommet
138-22	110442	Screw Driver
138-23	125752	Wrench
138-25	125754	Wrench
138-26	125755	Wrench
138-27	125756	Wrench
138-28	125757	Wrench
138-30	125758	File
138-33	125760	Wrench
138-34	125761	Wrench
138-36	125763	Wrench
138-43	126242	Gauge
138-44	126243	Gauge
138-55	110443	Scale
138-58	110444	Scale
138-100	88993	Burnisher
138-125	126245	Gauge
138-126	126246	Gauge
138-127	125775	Wrench
138-128	125776	Wrench
138-129	125777	Wrench
138-137	110445	Tool
138-139	125783	Stone
200-20	3639	Washer
200-153	3640	Washer
200-214	125789	Shim
200-1032	3646	Washer
200-1134	125793	Pin
200-1139	3647	Insulator
200-1177	126251	Insulator
200-1348	125802	Washer
200-2212	3649	Washer
300-106	125814	Guide
300-107	125815	Contact Assem.
300-108	125816	Mounting Bar
300-109	125817	Mounting Bar
300-110	125818	Insulator
300-113	125820	Disk
300-121	125828	Shaft
300-128	125829	Lever
300-137	125833	Lever Guide
300-152	125844	Adj. Lever
300-170	125848	Cont. Lever
300-171	125849	Cont. Lever
300-172	125850	Cont. Lever
300-173	125851	Cont. Lever
300-174	125852	Cont. Lever
300-178	125855	Terminal
300-179	125856	Terminal Block
300-181	125858	Feed Pawl
300-201	125860	End Bracket
300-301	5556	Top Plate
300-302	125861	Feed Wheel
*300-303	125862	Bearing
300-312	125867	Bracket
300-314	125868	Detent Assem.
300-319	125871	Bracket
300-320	125872	Shaft
300-322	125873	Latch
300-400	125874	End Bracket
300-506	4707	Washer
300-510	125882	Terminal
400-3	125903	Brush
400-218	125914	Terminal
500-205	125935	Spring
700-55	125947	Screw
700-59	125948	Screw
700-71	3650	Washer
W-1238	126234	Pin
* 55083-1	126096	"T" Bar
* 55083-2	126097	"T" Bar
* 55083-3	126098	"T" Bar
* 55083-4	126099	"T" Bar
* 55083-5	126100	"T" Bar
* 55083-6	126101	"T" Bar
* 55083-7	126102	"T" Bar
* 55083-8	126103	"T" Bar
* 55083-9	126104	"T" Bar
* 55083-10	126105	"T" Bar
* 55083-11	126106	"T" Bar
* 55083-12	126107	"T" Bar
* 55083-13	126108	"T" Bar
* 55083-14	126109	"T" Bar
* 55083-15	126110	"T" Bar
* 55083-16	126111	"T" Bar
* 55083-17	126112	"T" Bar
* 55083-18	126113	"T" Bar
* 55083-20	126114	"T" Bar
* 55083-21	126115	"T" Bar
55084-A2	126156	Bar
55084-A4	126157	Bar
55084-A6	126158	Bar
55084-A8	126159	Bar
55084-A10	126160	Bar
55084-A12	126161	Bar
55084-A14	126162	Bar
55084-A16	126163	Bar
55084-A18	126164	Bar
55084-A20	126165	Bar
55084-B1	126166	Bar
55084-B3	126167	Bar
55084-B5	126168	Bar
55084-B7	126169	Bar
55084-B9	126170	Bar
55084-B11	126171	Bar
55084-B13	126172	Bar
55084-B15	126173	Bar
55084-B17	126174	Bar

*Indicates change

NEW TO OLD NUMBER CONVERSION LIST

New No.	Old No.
*1036	34-51
1157	33-1
1158	33-3
1159	33-5
1160	33-6
1161	33-7
1162	(33-10
	(33-156
1163	33-11
1164	33-14
1165	33-16
1166	33-17
1168	33-35
1169	33-37
1170	33-49
1171	33-53
1172	33-54
1173	33-64
1174	33-157
1176	33-195
1177	33-234
1179	33-238
1181	33-360
1222	33-39
1223	33-69
1263	33-4
3595	34-2
3597	34-6
3598	34-8
3599	34-9
3600	34-25
3602	34-28
3603	34-29
3604	34-50
3606	34-55
3608	35-58
3610	35-126
3614	(36-56
	(36-137
3618	61-7
3620	100-75
3621	100-85
3624	100-108
3625	S-122-39
3626	122-68
3627	S-122-234
3628	123-7
3630	123-36
3633	123-164
3634	123-165
3635	123-166
3636	123-167
3638	125-9
3639	200-20
3640	200-153
3646	200-1032
3647	200-1139
3649	200-2212
3650	700-71
4702	35-52
4703	35-86
4705	35-134
4707	300-506
4708	35-87
5475	34-5
5556	300-301
5740	33-13
5815	34-14
5816	100-74
9575	122-113
49054	33-111
*55257	34-12
70073	34-7
*71047	43-12
71444	123-8
74879	4-8
86850	33-240
87636	33-270
88993	138-100
110434	33-110
110435	34-56
110436	35-42
110437	35-70
110438	35-88
110440	36-153
110441	100-96
110442	138-22
110443	138-55
110444	138-58
110445	138-137
111019	122-575
112620	33-21
112621	33-170
112622	33-334
112623	33-335
112624	33-337
112626	34-4
112627	34-11
112628	34-64
112629	35-1
112630	35-2
112631	35-8
112632	35-33
112633	35-54
112634	35-89
112635	35-137
*112636	35-140
112640	122-384
125001	33-132
125002	33-179
125003	33-206
125005	33-280
125006	33-333
125009	34-59
125010	61-24
125011	103-27
125012	122-48
125013	122-276
125015	123-244
125016	126-123
*125092	36-131
125097	125-197
125098	125-198
125105	23-8
125108	33-2
125109	33-8
125110	33-9
125111	33-12
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125192	33-255
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125197	33-276
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125215	33-350
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125246	35-47
125248	35-53
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125252	35-71
125253	35-72
125254	35-78
125255	35-80
125257	35-85
125258	35-99
125262	35-116
125267	35-132
125268	35-133
125269	36-120
125272	36-24
125273	36-28
125276	36-39
125277	36-45
125278	36-51
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125281	36-80
125288	36-110
125290	36-114
125292	36-132
125296	36-147
125297	36-150
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125306	43-10
125307	46-3
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125317	61-25
125328	100-80
125330	100-84
125339	100-112
125341	100-120
125373	112-7
125379	122-5
125380	122-11
125381	122-12
125382	122-18
125383	S-122-19
125384	S-122-20
125385	S-122-21
125386	S-122-22
125387	S-122-23
125388	S-122-24
125389	122-25
125390	122-26
125391	122-27
125392	122-28
125393	122-29
125394	122-35
125395	122-36
125396	S-122-37
125397	S-122-38
125398	S-122-40
125400	122-42
125401	122-43
125402	122-46
125403	122-49
125404	122-50
125405	122-51
125406	122-52
125407	122-53
125408	122-54
125409	122-55
125410	122-56
125411	122-57
125412	122-58
125413	122-60
125414	122-61
125415	122-62
125416	122-63
125417	122-65
125418	122-67
125419	S-122-69
125421	122-84
125422	122-86
125423	122-88

New No.	Old No.
125424	122-89
125425	122-94
125426	122-95
125427	122-97
125428	122-100
125429	122-101
125430	122-102
125431	122-106
125433	122-107
125434	122-108
125438	122-116
125439	122-117
125440	122-118
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125443	122-121
125444	122-124
125445	122-126
125446	122-127
125447	122-128
125448	122-129
125449	S-122-130
125450	122-133
125451	S-122-134
125452	122-135
125453	S-122-136
125454	122-137
125456	122-140
125457	122-143
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125459	122-147
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125465	122-196
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125503	122-378
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125507	122-383
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125512	122-390
125514	122-396
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125555	122-438
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125601	122-533
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125692	122-707
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125694	122-709
125695	122-710
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125754	138-25
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125758	138-30
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125777	138-129
125783	138-139
125789	200-214
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125818	300-110
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125828	300-121
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125833	300-137
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125850	300-172
125851	300-173
125852	300-174
125855	300-178
125856	300-179
125858	300-181
125860	300-201
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125862	300-303
125867	300-312
125868	300-314
125871	300-319
125872	300-320
125873	300-322
125874	300-400
125882	300-510
125903	400-3
125914	400-218
125935	500-205
125947	700-55
125948	700-59
126096	55083-1
126097	55083-2
126098	55083-3
126099	55083-4
126100	55083-5
126101	55083-6
126102	55083-7
126103	55083-8
126104	55083-9
126105	55083-10
126106	55083-11
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126109	55083-14
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126111	55083-16
126112	55083-17
126113	55083-18
126114	55083-20
126115	55083-21
126156	55084-A2
126157	55084-A4
126158	55084-A6
126159	55084-A8
126160	55084-A10
126161	55084-A12
126162	55084-A14
126163	55084-A16
126164	55084-A18
126165	55084-A20
126166	55084-B1
126167	55084-B3
126168	55084-B5
126169	55084-B7
126170	55084-B9
126171	55084-B11
126172	55084-B13
126173	55084-B15
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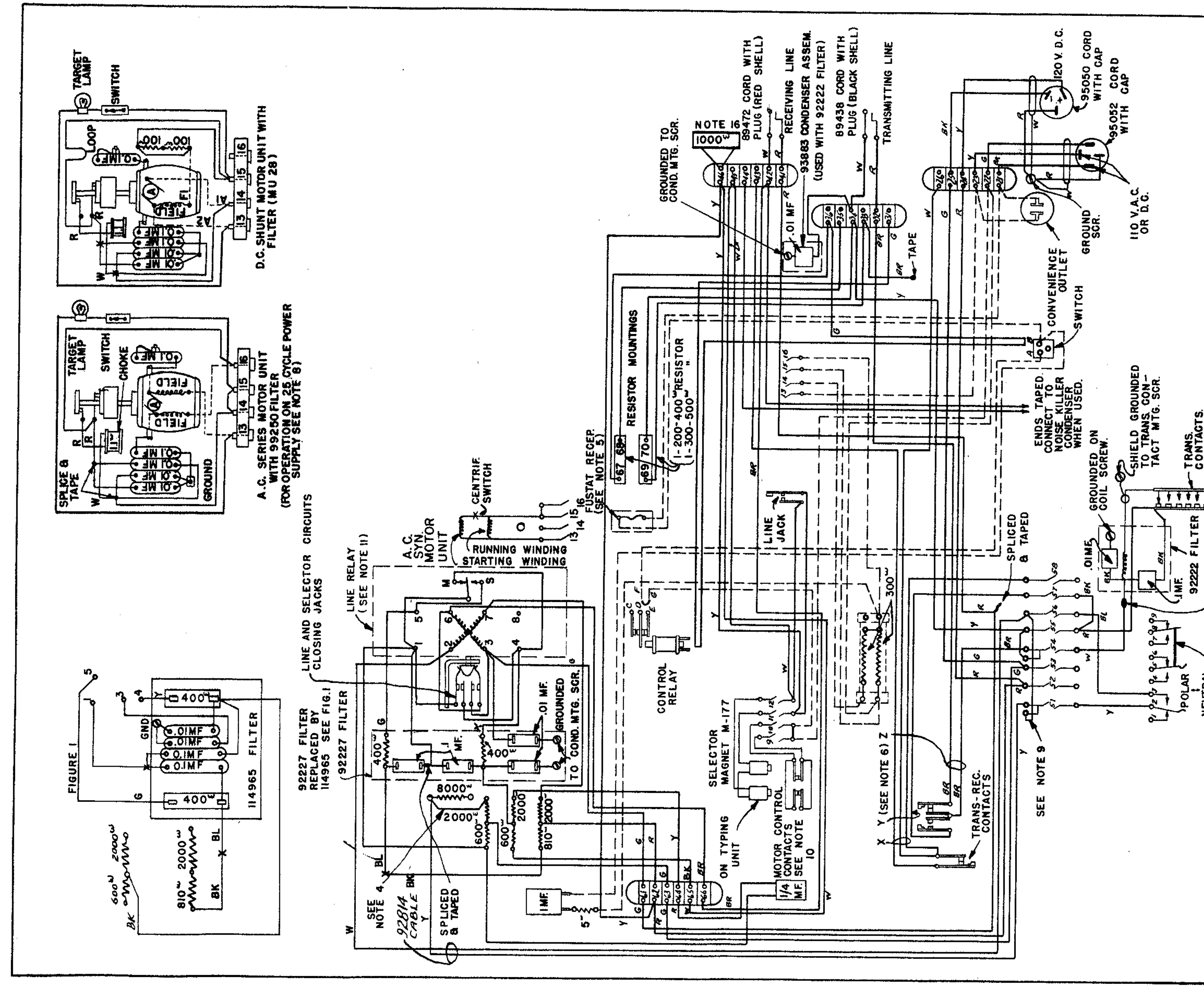
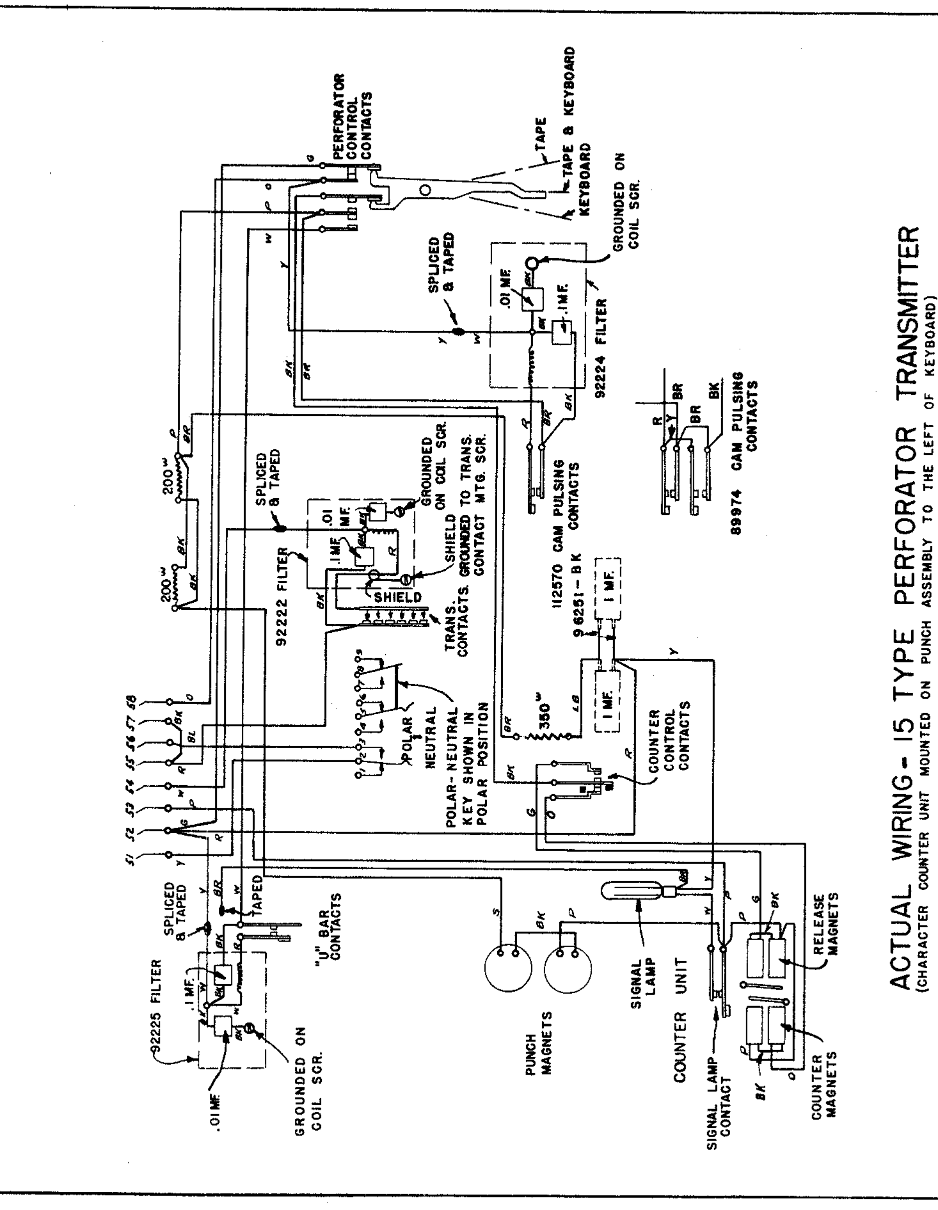
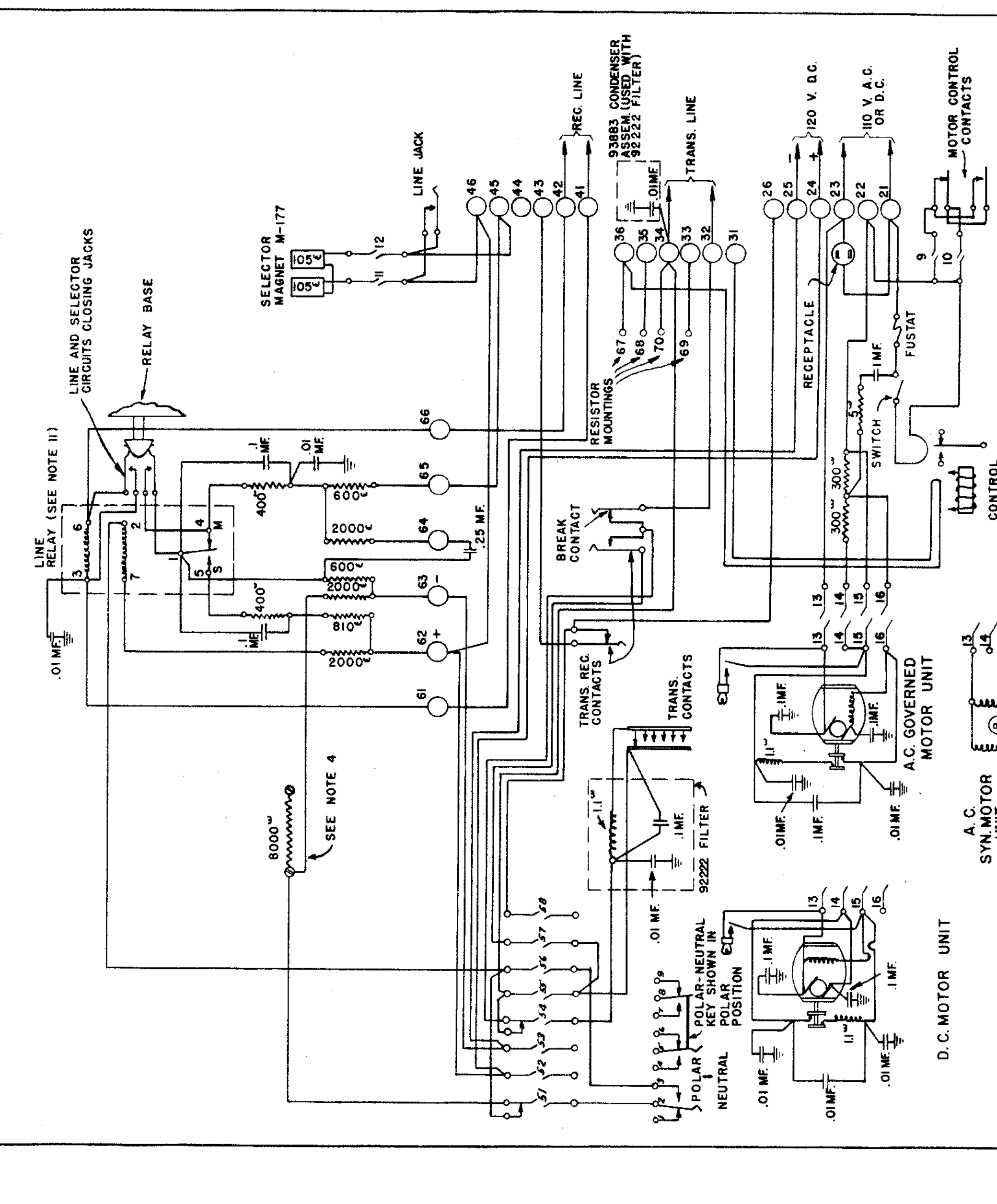
126251	200-1177



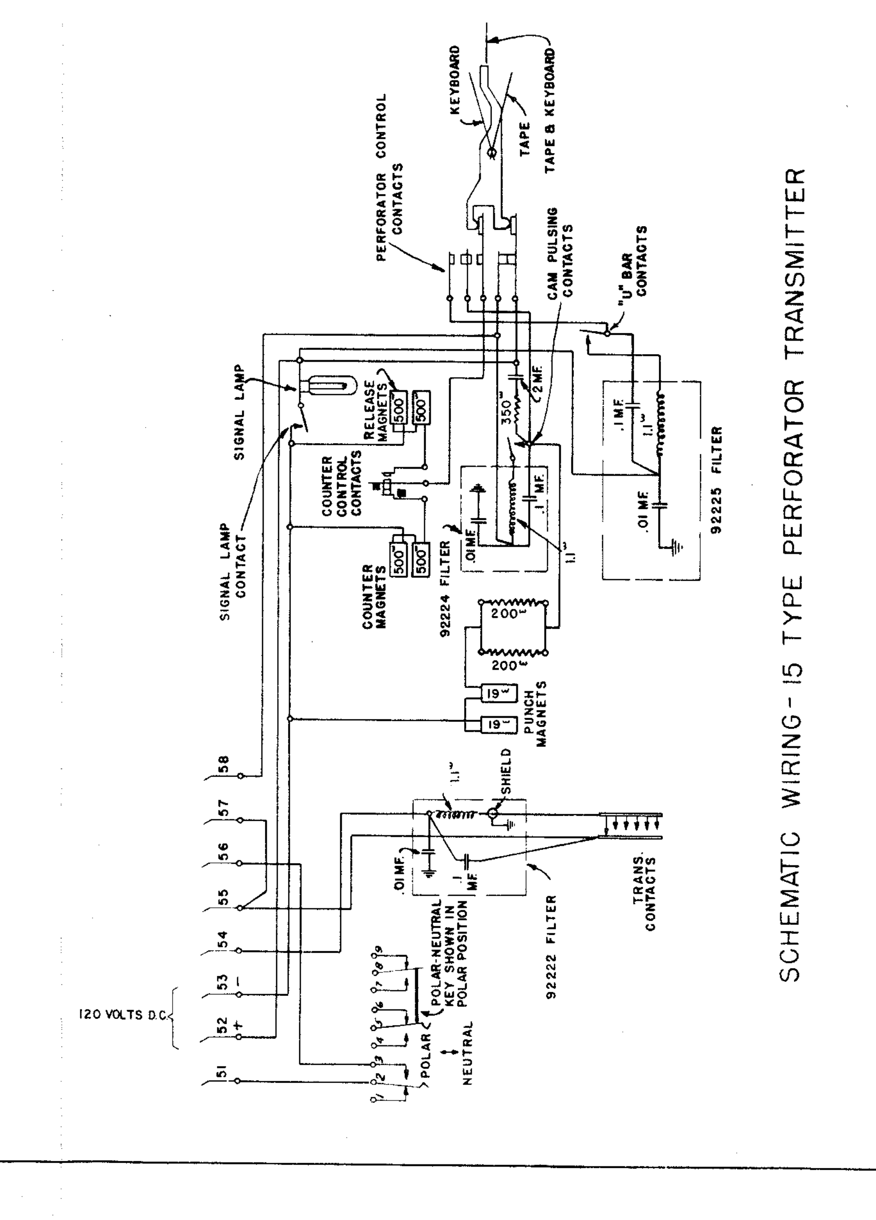
ACTUAL WIRING 15 PRINTER SET WITH KEYBOARD



ACTUAL WIRING - 15 TYPE PERFORATOR TRANSMITTER (CHARACTER COUNTER UNIT MOUNTED ON PUNCH ASSEMBLY TO THE LEFT OF KEYBOARD)



SCHEMATIC WIRING - 15 PRINTER SET WITH KEYBOARD



SCHEMATIC WIRING - 15 TYPE PERFORATOR TRANSMITTER

NOTES

1. CONTROL RELAY NOT WIRED AT FACTORY. WHEN CONTROL RELAY IS USED, WIRES SHOWN CONNECTED TO "A" AND "B" ON SWITCH ARE REMOVED, SPLICED TOGETHER AND TAPED. WIRE LOOPS AT SWITCH AND CONTROL RELAY COIL ARE CUT AND CONNECTED TO RESPECTIVE UNITS. WIRE LOOP AT CONTROL RELAY CONTACTS IS CUT, "G" IS CONNECTED TO "E" FOR "BREAK OPER." AND TO "C" FOR "MAKE OPER." "F" IS CONNECTED TO "D" IN EITHER CASE.

2. FOR "BREAK OPER" INVERT POWER SWITCH TO MAKE "ON" AND "OFF" DESIGNATIONS ON COVER AGREE WITH OPERATION OF SWITCH.

3. TO OPERATE PRINTER WITHOUT LINE RELAY MOVE YELLOW WIRE FROM TERMINAL 62 TO 61; MOVE WHITE WIRE FROM TERMINAL 65 TO 66; REMOVE AND TAPE GREEN WIRE GOING TO LINE RELAY FROM TERMINAL 61.

4. FOR .020 AMP. SIGNAL LINE OPERATION, CONNECT THIS LEAD TO OTHER TERMINAL OF RESISTOR.

5. RECOMMENDED FUSETRON OR FUSTAT (AND ALTERNATE FUSE) PROTECTION

MOTOR	FUSETRON OR FUSTAT	FUSE
110 V. AC-60 CYCLE SYN.	*3.2 AMP.	6 AMP.
110 V. AC-60 CYCLE GOV.	*1.60 AMP.	3 AMP.
110 V. DC GOV.	.8 AMP.	3 AMP.
110 V. AC-25 CYCLE GOV.	1.4 AMP.	3 AMP.

* 1.6 & 3.2 AMP. FUSETRONS ARE FURNISHED WITH NEW 15 PTR. BASES

6. TO DISABLE SEND-RECEIVE BREAK MECHANISM:
   A. SPLICE AND TAPE WIRES MARKED "X"
   B. TAPE WIRE MARKED "Y"
   C. SPLICE AND TAPE WIRES MARKED "Z"

7. EQUIPMENT SHOWN DOTTED IS UNDERNEATH UNITS.

8. WHEN A.C. SERIES MOTOR IS TO BE DRIVEN FROM 25 CYCLE POWER SUPPLY, A 25 OHM RESISTOR SHOULD BE CONNECTED IN THE POWER LEADS.

9. WHEN POLAR SIGNALS ARE USED, REMOVE JUMPER BETWEEN BACK CONTACT NO. 51 AND SLIP CONNECTION CONTACT NO. 56 ON BASE.

10. CONTACTS SHOWN BETWEEN TERMINALS 9 AND 10 ARE PRESENT ON TYPING UNIT ONLY WHEN MOTOR CONTROL ON FIGURES "H" OR FIGURES "M" IS USED. WHEN MOTOR CONTROL IS USED, REMOVE STRAP BETWEEN 9 AND 10.

11. RY-28 RELAY (W.E. 215-H) — 85 OHMS PER WINDING (FOR .060 AMPERE SIGNALING ONLY)
    RY-30 RELAY (W.E. 255-A) — 136 OHMS PER WINDING (FOR .060 OR .020 AMPERE SIGNALING)

12. WIRE COLOR CODE

CODE	SOLID COLOR OR TRACERS IN WHITE WIRE	CODE	SOLID COLOR OR TRACERS IN WHITE WIRE
W	WHITE	P	PURPLE RED & BLUE TRACER
R	RED	S	SLATE
G	GREEN	BR	BROWN
Y	YELLOW	LB	LIGHT BLUE
O	ORANGE	BK	BLACK

13. ASSOCIATED CABLES:

74574 BASE (LINE)	74788 A.C. MOTOR UNIT	92814 BASE
74573 BASE (POWER)	104936 KEYBOARD & PERF. TRANS.	99881 PERFORATOR & COUNTER (PERF. TRANS.)
74575 LINE RELAY UNIT	74625 SELECTOR MAGNET	83895 RESISTOR (PERF. TRANS.)
74571 D.C. MOTOR UNIT	74789 MOTOR CONTROL CONTACTS	

14. ALL WIRES ARE NO. 18 INSULATED WIRE, EXCEPT MOTOR LEADS.

15. THIN LINES INDICATE WIRES NOT IN CABLE.

NOTES (CONT.)

16. CONNECT ONE OF THE 1000 OHM RESISTOR LEADS TO TERMINAL 45 WHEN IT IS NECESSARY TO REDUCE THE NEGATIVE INTERNAL BIAS OF HOLDING MAGNET TYPE PRINTERS WITH THE SELECTOR COILS CONNECTED IN PARALLEL.

17. COVER LEADS AT LINE RELAY RESISTOR TERMINALS WITH HIGH TEMPERATURE TUBING - RM60279.

REVISIONS		
M	9-15-47	42749
N	3-4-49	46875
O	4-6-49	47129
P	5-24-49	47516
Q	6-14-49	47664
R	10-31-50	50312
S	2-13-51	50868

WD-2143-S

WIRING DIAGRAM MODEL 15 PRINTER WITH KEYBOARD AND PERFORATOR TRANSM'R INCL. RADIO FILTERS
BP-13, BP-22, BP-23, BP-93
BP-107, BP-116, BP-117
BB-44,
BK-22, BK-25,
PEX-25, PEX-26

DRAWN N.D.S.	APPROVED
ENGR'D H.W.P.	

FILE: 1-30.8A241

TELETYPE CORPORATION

57243 423

Teletype Corporation
Chicago, Illinois, 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:

Old Designation	New Designation	Description
M121	121M	Magnet
PK10718	10718PK	Carton
RM31571	31571RM	Wire
121	121B	Bulletin
EE121	121EE	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 numberically 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.

*Indicates change
**Indicates addition

Printed in U.S.A.

OLD TO NEW NUMBER CONVERSION LIST

Old No.	New No.	Description
4-8	74879	Stud
23-8	125105	Terminal
33-1	1157	Screw
33-2	125108	Screw
33-3	1158	Screw
33-4	1263	Screw
33-5	1159	Screw
33-6	1160	Screw
33-7	1161	Screw
33-8	125109	Screw
33-9	125110	Screw
33-10	1162	Screw
33-11	1163	Screw
33-12	125111	Screw
33-13	5740	Screw
33-14	1164	Screw
33-15	125112	Screw
33-16	1165	Screw
33-17	1166	Screw
33-18	125113	Screw
33-21	112620	Screw
33-22	125114	Screw
33-29	125116	Screw
33-32	125117	Screw
33-35	1168	Screw
33-37	1169	Screw
33-38	125119	Screw
33-39	1222	Screw
33-41	125120	Screw
33-43	125122	Screw
33-49	1170	Screw
33-50	125124	Screw
33-53	1171	Screw
33-54	1172	Screw
33-57	125126	Screw
33-58	125127	Screw
33-63	125130	Screw
33-64	1173	Screw
33-65	125131	Screw
33-69	1223	Screw
33-70	125132	Screw
33-85	125138	Screw
33-86	125139	Screw
33-89	125141	Screw
33-98	125142	Screw
33-101	125143	Screw
33-110	110434	Screw
33-111	49054	Screw
33-114	125146	Screw
33-130	125149	Screw
33-132	125001	Screw
33-153	125154	Screw
33-156	1162	Screw
33-157	1174	Screw
33-158	125155	Screw
33-163	125157	Screw
33-168	125159	Screw
33-170	112621	Screw
33-179	125002	Screw
33-180	125162	Screw
33-185	125163	Screw
33-193	125164	Screw
33-194	125165	Screw
33-195	1176	Screw
33-197	125167	Screw
33-198	125168	Screw
33-206	125003	Screw
33-207	125170	Screw
33-208	125171	Screw
33-213	125176	Screw
33-224	125178	Screw
33-225	125179	Screw
33-227	125180	Screw
33-234	1177	Screw
33-238	1179	Screw
33-240	86850	Screw
33-252	125189	Screw
33-253	125190	Screw
33-254	125191	Screw
33-255	125192	Screw
33-257	125193	Screw
33-270	87636	Screw
33-271	125195	Screw
33-276	125197	Screw
33-278	125199	Screw
33-280	125005	Screw
33-282	125200	Screw
33-283	125201	Screw
33-296	125205	Screw
33-333	125006	Screw
33-334	112622	Screw
33-335	112623	Screw
33-336	125206	Screw
33-337	112624	Screw
33-341	125209	Screw
33-344	125211	Screw
33-346	125212	Screw
33-348	125213	Screw
33-350	125215	Screw
33-360	1181	Screw
33-362	125217	Screw
34-1	125218	Nut
34-2	3595	Nut
34-4	112626	Nut
34-5	5475	Nut
34-6	3597	Nut
34-7	70073	Nut
34-8	3598	Nut
34-9	3599	Nut
34-10	125220	Nut
34-11	112627	Nut
*34-12	55257	Nut
34-13	125221	Nut
34-14	5815	Nut
34-16	125222	Nut
34-19	125223	Nut
34-24	125224	Nut
34-25	3600	Nut
34-27	125225	Nut
34-28	3602	Nut
34-29	3603	Nut
34-39	125227	Nut
34-41	125228	Nut
34-48	125229	Nut
34-50	3604	Nut
*34-51	1036	Nut
34-55	3606	Nut
34-56	110435	Nut
34-58	125231	Nut
34-59	125009	Nut
34-61	125233	Nut
34-64	112628	Nut
34-66	125235	Nut
35-1	112629	Spring
35-2	112630	Spring
35-8	112631	Spring
35-13	125236	Spring
35-24	125239	Spring
35-27	125241	Spring
35-28	125242	Spring
35-33	112632	Spring
35-34	125243	Spring
35-40	125244	Spring
35-42	110436	Spring
35-47	125246	Spring
35-52	4702	Spring
35-53	125248	Spring
35-54	112633	Spring
35-58	3608	Spring
35-68	125250	Spring
35-69	125251	Spring
35-70	110437	Spring
35-71	125252	Spring
35-72	125253	Spring
35-78	125254	Spring
35-80	125255	Spring
35-85	125257	Spring
35-86	4703	Spring
35-87	4708	Spring
35-88	110438	Spring
35-89	112634	Spring
35-99	125258	Spring
35-116	125262	Spring
35-126	3610	Spring
35-132	125267	Spring
35-133	125268	Spring
35-134	4705	Spring
35-137	112635	Spring
*35-140	112636	Spring
36-24	125272	Pin
36-28	125273	Pin
36-39	125276	Pin
36-45	125277	Pin
36-51	125278	Pin
36-56	3614	Pin
36-73	125280	Pin
36-80	125281	Pin
36-110	125288	Pin
36-114	125290	Pin
36-120	125269	Pin
*36-131	125092	Dowel
36-132	125292	Pin
36-137	3614	Pin
36-147	125296	Pin
36-150	125297	Pin
36-153	110440	Pin
36-164	125300	Pin
43-10	125306	Stop
*43-12	71047	Washer
46-3	125307	Washer
61-7	3618	Insulator
61-10	125314	Screw
61-24	125010	Washer
61-25	125317	Insulator
100-74	5816	Washer
100-75	3620	Washer
100-80	125328	Bushing
100-84	125330	Screw
100-85	3621	Terminal
100-96	110441	Shim
100-108	3624	Washer
100-112	125339	Terminal
100-120	125341	Bushing
103-27	125011	Washer
112-7	125373	Screw
122-5	125379	Post
122-11	125380	Chute
122-12	125381	Stud
122-18	125382	Cable
S-122-19	125383	Bracket
S-122-20	125384	Bracket
S-122-21	125385	Bracket

*Indicates change

Old No.	New No.	Description
S-122-22	125386	Bracket
S-122-23	125387	Bracket
S-122-24	125388	Bracket
122-25	125389	Bracket
122-26	125390	Washer
122-27	125391	Shaft
122-28	125392	Stop
122-29	125393	Pin
122-35	125394	Plate
122-36	125395	Pin
S-122-37	125396	Guide
S-122-38	125397	Bar
S-122-39	3625	Shaft
S-122-40	125398	Bracket
122-42	125400	Gear
122-43	125401	Gear
122-46	125402	Post
122-48	125012	Socket
122-49	125403	Fitting
122-50	125404	Lamp
122-51	125405	Bell Crank
122-52	125406	Bell Crank
122-53	125407	Bell Crank
122-54	125408	Bell Crank
122-55	125409	Bell Crank
122-56	125410	Bushing
122-57	125411	Bushing
122-58	125412	Stud
122-60	125413	Ratchet
122-61	125414	Post
122-62	125415	Pin
122-63	125416	Post
122-65	125417	Stud
122-67	125418	Post
122-68	3626	Foot
S-122-69	125419	Stop
122-84	125421	Pin
122-86	125422	Pin
122-88	125423	Solenoid Assem.
122-89	125424	Bracket
122-94	125425	Terminal Brd.
122-95	125426	Insulator
122-97	125427	Bushing
122-100	125428	Plate
122-101	125429	Head
122-102	125430	Post
122-106	125431	Bracket Assem.
122-107	125433	Bracket
122-108	125434	Bushing
122-113	9575	Screw
122-116	125438	Lever Assem.
122-117	125439	Lever
122-118	125440	Terminal
122-119	125441	Contact Assem.
122-121	125443	Contact
122-124	125444	Spring
122-126	125445	Insulator
122-127	125446	Stud
122-128	125447	Bracket Assem.
122-129	125448	Bracket
S-122-130	125449	Lever Assem.
122-133	125450	Post
S-122-134	125451	Bell Crank
122-135	125452	Washer
S-122-136	125453	Bracket
122-137	125454	Gear Assem.
122-140	125456	Stud
122-143	125457	Connector
122-146	125458	Bearing
122-147	125459	Bushing
122-194	125463	Disk
122-195	125464	Disk
122-196	125465	Bezel
S-122-234	3627	Bar
122-242	125467	Lever Assem.
122-244	125468	Post
122-245	125469	Pawl
122-246	125470	Post
122-247	125471	Disk Assem.
122-249	125472	Stud
122-259	125479	Disk
122-275	125481	Bracket
122-276	125013	Plate
122-350	125487	Tape Reel
122-357	125488	Spacer
122-359	125490	Ratchet
122-364	125492	Bracket
122-365	125493	Punch Pin
122-366	125494	Punch Pin
122-369	125495	Guide Plate
122-374	125499	Punch Bar
122-375	125500	Punch Bar
122-376	125501	Punch Bar
122-377	125502	Punch Bar
122-378	125503	Punch Bar
122-380	125504	Lever
122-381	125505	Contact
122-382	125506	Bail
122-383	125507	Key Lever
122-384	112640	Die Block
122-386	125508	Bail Assem.
122-389	125511	Pawl Assem.
122-390	125512	Contact Assem.
122-396	125514	Hammer Assem.
122-431	125548	Paper Keytop
122-432	125549	Paper Keytop
122-433	125550	Paper Keytop
122-434	125551	Paper Keytop
122-435	125552	Paper Keytop
122-438	125555	Head
122-451	125560	Lever Assem.
122-452	125561	Lever Assem.
122-453	125562	Cable Assem.
122-454	125563	Cable
122-459	125565	Paper Keytop
122-460	125566	Paper Keytop
122-461	125567	Paper Keytop
122-462	125568	Paper Keytop
122-463	125569	Paper Keytop
122-464	125570	Paper Keytop
122-465	125571	Paper Keytop
122-466	125572	Paper Keytop
122-467	125573	Paper Keytop
122-468	125574	Paper Keytop
122-469	125575	Paper Keytop
122-470	125576	Paper Keytop
122-471	125577	Paper Keytop
122-472	125578	Paper Keytop
122-473	125579	Paper Keytop
122-474	125580	Paper Keytop
122-475	125581	Paper Keytop
122-476	125582	Paper Keytop
122-477	125583	Paper Keytop
122-478	125584	Paper Keytop
122-479	125585	Paper Keytop
122-480	125586	Paper Keytop
122-481	125587	Paper Keytop
122-482	125588	Paper Keytop
122-483	125589	Paper Keytop
122-484	125590	Paper Keytop
122-511	125594	Guide Assem.
122-528	125596	Key Lever Assem.
122-529	125597	Key Lever Assem.
122-530	125598	Key Lever Assem.
122-531	125599	Key Lever Assem.
122-532	125600	Key Lever Assem.
122-533	125601	Key Lever Assem.
122-534	125602	Key Lever Assem.
122-535	125603	Key Lever Assem.
122-536	125604	Key Lever Assem.
122-537	125605	Key Lever Assem.
122-538	125606	Key Lever Assem.
122-539	125607	Key Lever Assem.
122-540	125608	Key Lever Assem.
122-541	125609	Key Lever Assem.
122-542	125610	Key Lever Assem.
122-543	125611	Key Lever Assem.
122-544	125612	Key Lever Assem.
122-545	125613	Key Lever Assem.
122-546	125614	Key Lever Assem.
122-547	125615	Key Lever Assem.
122-548	125616	Key Lever Assem.
122-549	125617	Key Lever Assem.
122-550	125618	Key Lever Assem.
122-551	125619	Key Lever Assem.
122-552	125620	Key Lever Assem.
122-553	125621	Key Lever Assem.
122-554	125622	Key Lever Assem.
122-555	125623	Key Lever Assem.
122-556	125624	Key Lever Assem.
122-557	125198	Key Lever Assem.
122-558	125625	Key Lever Assem.
122-559	125626	Key Lever Assem.
122-567	125631	Hammer Assem.
122-571	125633	Guide Plate
122-575	111019	Block
122-576	125636	Plate Assem.
122-577	125637	Ratchet Assem.
122-580	125638	Paper Keytop
122-581	125639	Paper Keytop
122-582	125640	Paper Keytop
122-586	125642	Bracket Assem.
122-589	125643	Washer
122-592	125645	Guide
122-593	125646	Plate
122-594	125647	Plate
122-596	125648	Key Lever
122-597	125649	Key Lever
122-598	125650	Key Lever
122-599	125651	Key Lever
122-600	125652	Key Lever
122-601	125653	Key Lever
122-602	125654	Key Lever
122-603	125655	Key Lever
122-604	125656	Key Lever
122-605	125657	Key Lever
122-606	125658	Key Lever
122-607	125659	Key Lever
122-608	125660	Key Lever
122-609	125661	Key Lever
122-610	125662	Key Lever
122-611	125663	Key Lever
122-612	125664	Key Lever
122-613	125665	Key Lever
122-614	125666	Key Lever
122-615	125667	Key Lever
122-616	125668	Key Lever
122-617	125669	Key Lever
122-618	125670	Key Lever
122-619	125671	Key Lever

Old No.	New No.	Description
122-620	125672	Key Lever
122-621	125673	Key Lever
122-622	125674	Key Lever
122-623	125675	Key Lever
122-624	125676	Key Lever
122-625	125677	Key Lever
122-626	125678	Key Lever
122-697	125683	Bushing
122-698	125684	Lever Assem.
122-699	125685	Stud
122-700	125686	Lever Assem.
122-702	125687	Bushing
122-703	125688	Bracket Assem.
122-704	125689	Paper Keytop
122-705	125690	Paper Keytop
122-706	125691	Paper Keytop
122-707	125692	Paper Keytop
122-708	125693	Paper Keytop
122-709	125694	Paper Keytop
122-710	125695	Paper Keytop
123-7	3628	Bushing
123-8	71444	Bushing
123-36	3630	Bushing
123-37	125696	Post
123-164	3633	Bushing
123-165	3634	Bushing
123-166	3635	Washer
123-167	3636	Washer
123-244	125015	Washer
123-308	125703	Terminal
125-9	3638	Condenser
125-176	125716	Switch Box
125-197	125097	Nipple
125-198	125098	Nut
125-208	125719	Nipple
125-209	125720	Nut
125-237	125723	Fuse
125-238	125724	Fuse
126-123	125016	Grommet
138-22	110442	Screw Driver
138-23	125752	Wrench
138-25	125754	Wrench
138-26	125755	Wrench
138-27	125756	Wrench
138-28	125757	Wrench
138-30	125758	File
138-33	125760	Wrench
138-34	125761	Wrench
138-36	125763	Wrench
138-43	126242	Gauge
138-44	126243	Gauge
138-55	110443	Scale
138-58	110444	Scale
138-100	88993	Burnisher
138-125	126245	Gauge
138-126	126246	Gauge
138-127	125775	Wrench
138-128	125776	Wrench
138-129	125777	Wrench
138-137	110445	Tool
138-139	125783	Stone
200-20	3639	Washer
200-153	3640	Washer
200-214	125789	Shim
200-1032	3646	Washer
200-1134	125793	Pin
200-1139	3647	Insulator
200-1177	126251	Insulator
200-1348	125802	Washer
200-2212	3649	Washer
300-106	125814	Guide
300-107	125815	Contact Assem.
300-108	125816	Mounting Bar
300-109	125817	Mounting Bar
300-110	125818	Insulator
300-113	125820	Disk
300-121	125828	Shaft
300-128	125829	Lever
300-137	125833	Lever Guide
300-152	125844	Adj. Lever
300-170	125848	Cont. Lever
300-171	125849	Cont. Lever
300-172	125850	Cont. Lever
300-173	125851	Cont. Lever
300-174	125852	Cont. Lever
300-178	125855	Terminal
300-179	125856	Terminal Block
300-181	125858	Feed Pawl
300-201	125860	End Bracket
300-301	5556	Top Plate
300-302	125861	Feed Wheel
*300-303	125862	Bearing
300-312	125867	Bracket
300-314	125868	Detent Assem.
300-319	125871	Bracket
300-320	125872	Shaft
300-322	125873	Latch
300-400	125874	End Bracket
300-506	4707	Washer
300-510	125882	Terminal
400-3	125903	Brush
400-218	125914	Terminal
500-205	125935	Spring
700-55	125947	Screw
700-59	125948	Screw
700-71	3650	Washer
W-1238	126234	Pin
* 55083-1	126096	"T" Bar
* 55083-2	126097	"T" Bar
* 55083-3	126098	"T" Bar
* 55083-4	126099	"T" Bar
* 55083-5	126100	"T" Bar
* 55083-6	126101	"T" Bar
* 55083-7	126102	"T" Bar
* 55083-8	126103	"T" Bar
* 55083-9	126104	"T" Bar
* 55083-10	126105	"T" Bar
* 55083-11	126106	"T" Bar
* 55083-12	126107	"T" Bar
* 55083-13	126108	"T" Bar
* 55083-14	126109	"T" Bar
* 55083-15	126110	"T" Bar
* 55083-16	126111	"T" Bar
* 55083-17	126112	"T" Bar
* 55083-18	126113	"T" Bar
* 55083-20	126114	"T" Bar
* 55083-21	126115	"T" Bar
55084-A2	126156	Bar
55084-A4	126157	Bar
55084-A6	126158	Bar
55084-A8	126159	Bar
55084-A10	126160	Bar
55084-A12	126161	Bar
55084-A14	126162	Bar
55084-A16	126163	Bar
55084-A18	126164	Bar
55084-A20	126165	Bar
55084-B1	126166	Bar
55084-B3	126167	Bar
55084-B5	126168	Bar
55084-B7	126169	Bar
55084-B9	126170	Bar
55084-B11	126171	Bar
55084-B13	126172	Bar
55084-B15	126173	Bar
55084-B17	126174	Bar

*Indicates change

NEW TO OLD NUMBER CONVERSION LIST

New No.	Old No.
*1036	34-51
1157	33-1
1158	33-3
1159	33-5
1160	33-6
1161	33-7
1162	(33-10
	(33-156
1163	33-11
1164	33-14
1165	33-16
1166	33-17
1168	33-35
1169	33-37
1170	33-49
1171	33-53
1172	33-54
1173	33-64
1174	33-157
1176	33-195
1177	33-234
1179	33-238
1181	33-360
1222	33-39
1223	33-69
1263	33-4
3595	34-2
3597	34-6
3598	34-8
3599	34-9
3600	34-25
3602	34-28
3603	34-29
3604	34-50
3606	34-55
3608	35-58
3610	35-126
3614	(36-56
	(36-137
3618	61-7
3620	100-75
3621	100-85
3624	100-108
3625	S-122-39
3626	122-68
3627	S-122-234
3628	123-7
3630	123-36
3633	123-164
3634	123-165
3635	123-166
3636	123-167
3638	125-9
3639	200-20
3640	200-153
3646	200-1032
3647	200-1139
3649	200-2212
3650	700-71
4702	35-52
4703	35-86
4705	35-134
4707	300-506
4708	35-87
5475	34-5
5556	300-301
5740	33-13
5815	34-14
5816	100-74
9575	122-113
49054	33-111
*55257	34-12
70073	34-7
*71047	43-12
71444	123-8
74879	4-8
86850	33-240
87636	33-270
88993	138-100
110434	33-110
110435	34-56
110436	35-42
110437	35-70
110438	35-88
110440	36-153
110441	100-96
110442	138-22
110443	138-55
110444	138-58
110445	138-137
111019	122-575
112620	33-21
112621	33-170
112622	33-334
112623	33-335
112624	33-337
112626	34-4
112627	34-11
112628	34-64
112629	35-1
112630	35-2
112631	35-8
112632	35-33
112633	35-54
112634	35-89
112635	35-137
*112636	35-140
112640	122-384
125001	33-132
125002	33-179
125003	33-206
125005	33-280
125006	33-333
125009	34-59
125010	61-24
125011	103-27
125012	122-48
125013	122-276
125015	123-244
125016	126-123
*125092	36-131
125097	125-197
125098	125-198
125105	23-8
125108	33-2
125109	33-8
125110	33-9
125111	33-12
125112	33-15
125113	33-18
125114	33-22
125116	33-29
125117	33-32
125119	33-38
125120	33-41
125122	33-43
125124	33-50
125126	33-57
125127	33-58
125130	33-63
125131	33-65
125132	33-70
125138	33-85
125139	33-86
125141	33-89
125142	33-98
125143	33-101
125146	33-114
125149	33-130
125154	33-153
125155	33-158
125157	33-163
125159	33-168
125162	33-180
125163	33-185
125164	33-193
125165	33-194
125167	33-197
125168	33-198
125170	33-207
125171	33-208
125176	33-213
125178	33-224
125179	33-225
125180	33-227
125189	33-252
125190	33-253
125191	33-254
125192	33-255
125193	33-257
125195	33-271
125197	33-276
125198	122-557
125199	33-278
125200	33-282
125201	33-283
125205	33-296
125206	33-336
125209	33-341
125211	33-344
125212	33-346
125213	33-348
125215	33-350
125217	33-362
125218	34-1
125220	34-10
125221	34-13
125222	34-16
125223	34-19
125224	34-24
125225	34-27
125227	34-39
125228	34-41
125229	34-48
125231	34-58
125233	34-61
125235	34-66
125236	35-13
125239	35-24
125241	35-27
125242	35-28
125243	35-34
125244	35-40
125246	35-47
125248	35-53
125250	35-68
125251	35-69
125252	35-71
125253	35-72
125254	35-78
125255	35-80
125257	35-85
125258	35-99
125262	35-116
125267	35-132
125268	35-133
125269	36-120
125272	36-24
125273	36-28
125276	36-39
125277	36-45
125278	36-51
125280	36-73
125281	36-80
125288	36-110
125290	36-114
125292	36-132
125296	36-147
125297	36-150
125300	36-164
125306	43-10
125307	46-3
125314	61-10
125317	61-25
125328	100-80
125330	100-84
125339	100-112
125341	100-120
125373	112-7
125379	122-5
125380	122-11
125381	122-12
125382	122-18
125383	S-122-19
125384	S-122-20
125385	S-122-21
125386	S-122-22
125387	S-122-23
125388	S-122-24
125389	122-25
125390	122-26
125391	122-27
125392	122-28
125393	122-29
125394	122-35
125395	122-36
125396	S-122-37
125397	S-122-38
125398	S-122-40
125400	122-42
125401	122-43
125402	122-46
125403	122-49
125404	122-50
125405	122-51
125406	122-52
125407	122-53
125408	122-54
125409	122-55
125410	122-56
125411	122-57
125412	122-58
125413	122-60
125414	122-61
125415	122-62
125416	122-63
125417	122-65
125418	122-67
125419	S-122-69
125421	122-84
125422	122-86
125423	122-88

*Indicates change

New No.	Old No.
125424	122-89
125425	122-94
125426	122-95
125427	122-97
125428	122-100
125429	122-101
125430	122-102
125431	122-106
125433	122-107
125434	122-108
125438	122-116
125439	122-117
125440	122-118
125441	122-119
125443	122-121
125444	122-124
125445	122-126
125446	122-127
125447	122-128
125448	122-129
125449	S-122-130
125450	122-133
125451	S-122-134
125452	122-135
125453	S-122-136
125454	122-137
125456	122-140
125457	122-143
125458	122-146
125459	122-147
125463	122-194
125464	122-195
125465	122-196
125467	122-242
125468	122-244
125469	122-245
125470	122-246
125471	122-247
125472	122-249
125479	122-259
125481	122-275
125487	122-350
125488	122-357
125490	122-359
125492	122-364
125493	122-365
125494	122-366
125495	122-369
125499	122-374
125500	122-375
125501	122-376
125502	122-377
125503	122-378
125504	122-380
125505	122-381
125506	122-382
125507	122-383
125508	122-386
125511	122-389
125512	122-390
125514	122-396
125548	122-431
125549	122-432
125550	122-433
125551	122-434
125552	122-435
125555	122-438
125560	122-451
125561	122-452
125562	122-453
125563	122-454
125565	122-459
125566	122-460
125567	122-461
125568	122-462
125569	122-463
125570	122-464
125571	122-465
125572	122-466
125573	122-467
125574	122-468
125575	122-469
125576	122-470
125577	122-471
125578	122-472
125579	122-473
125580	122-474
125581	122-475
125582	122-476
125583	122-477
125584	122-478
125585	122-479
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125914	400-218
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125948	700-59
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126097	55083-2
126098	55083-3
126099	55083-4
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126113	55083-18
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126115	55083-21
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126158	55084-A6
126159	55084-A8
126160	55084-A10
126161	55084-A12
126162	55084-A14
126163	55084-A16
126164	55084-A18
126165	55084-A20
126166	55084-B1
126167	55084-B3
126168	55084-B5
126169	55084-B7
126170	55084-B9
126171	55084-B11
126172	55084-B13
126173	55084-B15
126174	55084-B17
126234	W-1238
126242	138-43
126243	138-44
126245	138-125
126246	138-126
126251	200-1177

CHANGES AND ADDITIONS TO BULLETIN 141 (ISSUE 3) DESCRIPTION AND ADJUSTMENTS TRANSMITTER DISTRIBUTOR

Page 12

A. CARBON BRUSH ADJUSTMENT (Figure 27)

Replace the last three sentences of Paragraph (a) with the following:

"The brushes should also remain within the edges of the rings throughout a complete revolution of the main shaft. To meet the first requirement, loosen the brush spring clamp screw and position the brushes. Tighten the clamp screw so that the brush springs are friction tight. To meet the second requirement, loosen the brush holder clamp screw and position the brush holder, or utilize the play of the brush springs in their slots, to position the springs sideways. Tighten both clamp screws."

Page 14

ADJUSTMENTS OF BELL-ON-BLANK SIGNAL MECHANISM

The following adjustments apply to XD97 and XD98 and should be substituted for the CONTACT ADJUSTMENTS (Figure 32) - Page 15 in Bulletin 141 when these units are involved:

The bell on blank mechanism used on XD97 and 98 differs from that used on XD72, 84 and 96 by having a separate pair of contacts for the release magnet circuit which permits the release magnet to be used on either A.C. or D.C.

All adjustments for the bell-on-blank mechanism of XD72, 84 and 96 apply to XD97 and 98 except the bell-on-blank contact adjustments which should be made in accordance with the following:

BELL-ON-BLANK CONTACT ADJUSTMENTS (Figure 32A)

(a) With #2 contact spring held away from the #4 contact spring, the insulator on #4 contact spring should rest against the finger on the contact operating lever with a very slight amount of tension. To adjust, bend the #4 contact spring.

(b) There should be a contact gap of .010" to .015" between the contact points of #3 and #4 contact springs. To adjust, bend the contact stiffener associated with #3 contact spring.

(c) Apply the push end of an 8 oz. scale to #3 contact spring near the contact point. It should require 2 to 4 ozs. to start the contact spring moving away from its stiffener. To adjust, bend the #3 contact spring.

(d) The insulator of #2 contact spring should rest against the insulator of #4 contact spring with a very slight amount of pressure. To adjust, bend the #2 contact spring.

(e) There should be a gap of .010" to .015" between the contact points of #1 and #2 contact springs. To adjust, bend the #1 contact spring stiffener.

(f) Apply the push end of an 8 oz. scale to the #1 contact spring near the contact point. It should require 2 to 4 ozs. to start the contact spring moving away from its stiffener. To adjust, bend the #1 contact spring.

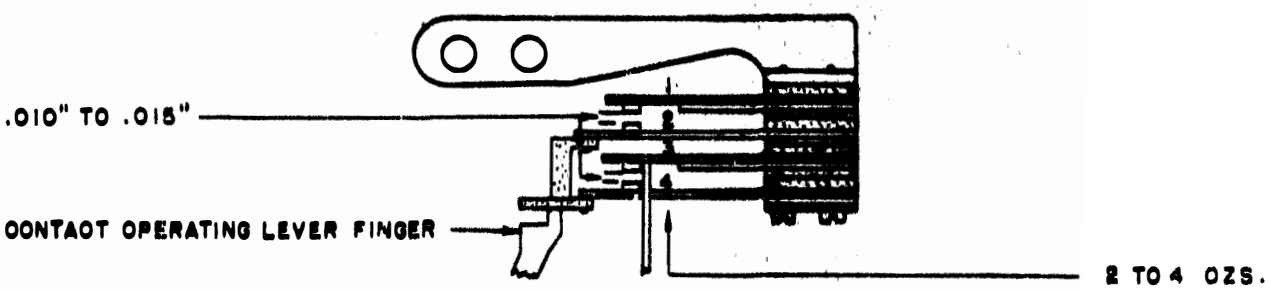

FIGURE 32A

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

EE-464
Issue 1
August, 1943

CHANGES IN BULLETIN 141 (ISSUE 3)
DESCRIPTION AND ADJUSTMENTS
TRANSMITTER-DISTRIBUTOR

The following changes apply to the Model 14 Transmitter-Distributor equipped with the 77079 tape stop assembly.

Page 10

Tight-Tape-Stop or Auto-Stop Mechanism

Add the following note below "a".

Note: For installations where the transmitter-distributor operates at a faster speed than the unit preparing the tape, adjust as follows:

When the contacts are held closed by the contact operating post the bottom of the tight-tape stop lever should be approximately one inch below the normal horizontal position and the tight tape stop shaft should protrude approximately 1/16" beyond the clamp (Fig.24A). Make the adjustments simultaneously by positioning the clamp.

* * *

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

EE-475
Issue 1
November, 1943

CHANGES IN BULLETIN 141 (ISSUE 3) DESCRIPTION AND ADJUSTMENTS TRANSMITTER-DISTRIBUTOR (MODEL 14)

The following changes apply to the Model 14 Transmitter-Distributor equipped with the 105721 tape rod.

Page 10

Tight-Tape Stop or Auto-Stop Mechanism

Change the second sentence to read as follows: There are four types of this mechanism in use, however.

Page 11

Add the following item after fourth paragraph of Item C:

Item D: Adjust the Type Shown in Figure 24-C to Meet the Following Requirements:

(a) The loop of the tape stop rod should be positioned to the right and down (when viewing the machine from the transmitter end) so that it will make an angle of approximately 45 degrees with the horizontal plane. (Figure 24-C.) Adjust by means of the set screw and lock nut in the tape rod clamp.

(b) When the contacts are held closed by the contact operating post, the distance between the top surface of the tape transmitter top plate and the middle of the bend in the tape stop rod should be 1-3/4" plus or minus 1/16". (Figure 24-D.) The tight-tape stop shaft should protrude approximately 1/16" beyond the tape rod clamp.

(c) For adjustments of clearances between contact points and between the right contact spring insulator and the tight-tape stop mechanism bracket, refer to paragraph (b) of Item A.

* * *

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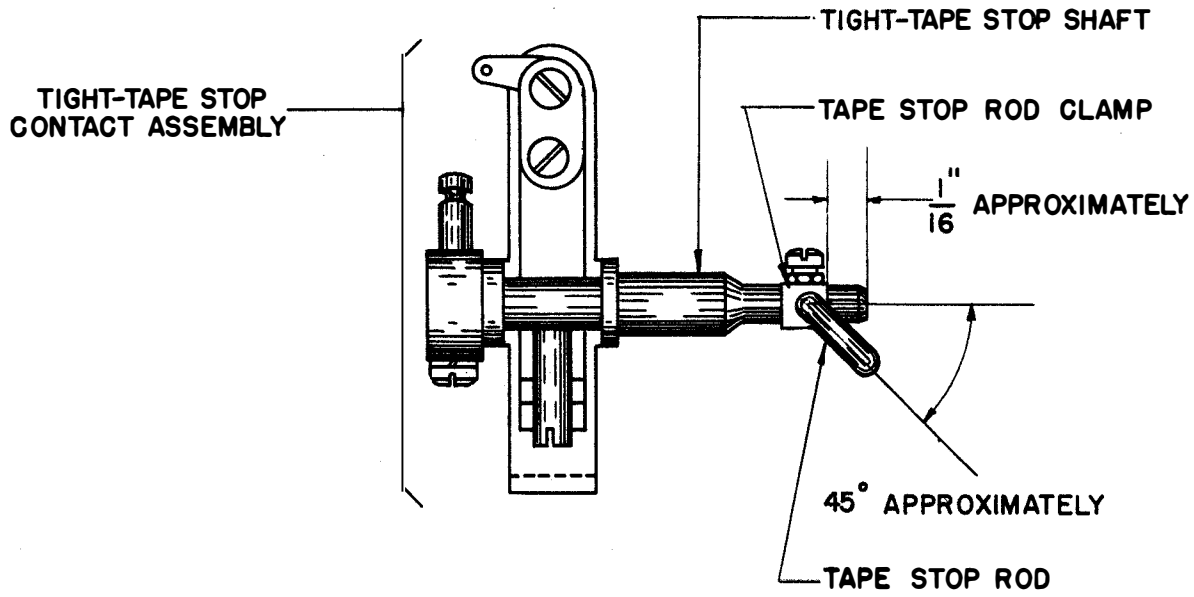

FIGURE 24 C

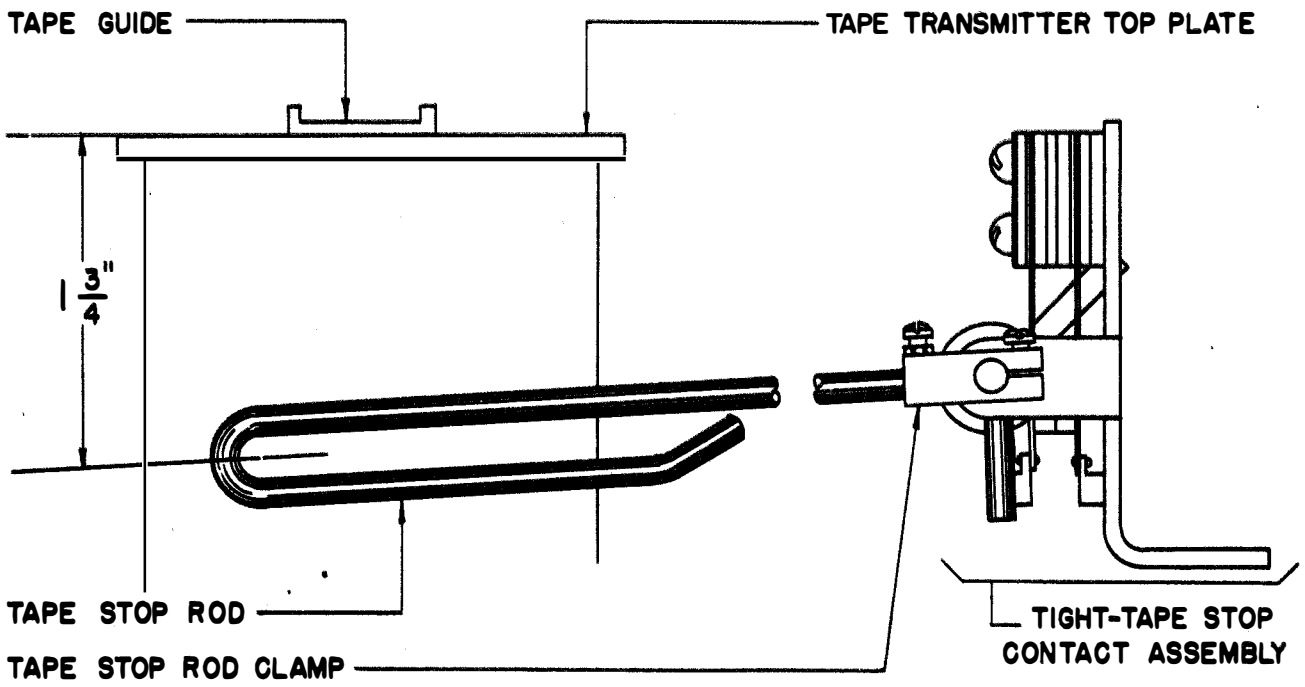

FIGURE 24 D

ADDITION AND CORRECTION
BULLETIN 141 (ISSUE 3)
DESCRIPTION AND ADJUSTMENTS TRANSMITTER-DISTRIBUTOR
MODEL 14

DESCRIPTION

On Transmitter-Distributors equipped with end-of-tape stop mechanism which were operated with spliced chadless tape, failures were encountered when the unit was equipped with the 97445 RETAINER LID (Figure 1) and the 97468 TAPE GUIDE PLATE (Figure 2).

To remedy this condition the 111628 RETAINER LID (Figure 3) was designed so that the portion of the lid which holds the tape in the guide plate was widened to fully cover the tape and the tape pin clearance hole was decreased in size to reduce the possibility of the tape catching in the hole.

The 111627 TAPE GUIDE PLATE (Figure 4) was designed so that a portion of the shoulder was removed to give clearance for the 111628 RETAINER LID and the diameter of the hole for the tape contact pin was increased to give clearance for adjustment. The top edges of the slot in the plate for the five sensing pins were beveled to eliminate the possibility of tape catching on the edges of the slot.

All new standard equipment will have the 111628 retainer lid and 111627 tape guide plate.

OPERABLE COMBINATIONS

1. The 97445 RETAINER LID and 97468 TAPE GUIDE PLATE can be used together but, it is not recommended when spliced chadless tape is to be used.

2. The 111628 RETAINER LID and 111627 TAPE GUIDE PLATE can be used together for either regular, chadless or spliced chadless tape.

3. The 97445 RETAINER LID and 111627 TAPE GUIDE PLATE can be used together but, it is not recommended when spliced chadless tape is to be used.

4. The 111628 RETAINER LID and 97468 TAPE GUIDE PLATE cannot be used together.

ADJUSTMENTS

PAGE 14

END-OF-TAPE STOP CONTACT PIN GUIDE ADJUSTMENT

Combination 1 can be adjusted using the standard adjustment requirement now in the bulletin.

Combination 2 requires that the standard adjustment be changed to read as follows:

The end-of-tape stop contact pin should be centrally located in the contact pin guide clearance hole in the retainer lid. Gauge by eye. To adjust, loosen the stop contact pin guide mounting screws and position the guide. Locate the feed wheel shaft bearings so that the feed wheel shaft is free with not over .002" end play before tightening the mounting screws.

Combination 3 requires that the standard adjustment be changed to read as follows:

There should be .010" to .020" clearance between the end-of-tape stop contact pin and the side of a straight edge which is placed on the front shoulder of the tape guide so that it lines up with the inner edge of the shoulder. To adjust, loosen the stop pin guide mounting screws and position the guide. Locate the feed wheel shaft bearings so that the feed wheel shaft is free with not over .002" end play before tightening the mounting screws.

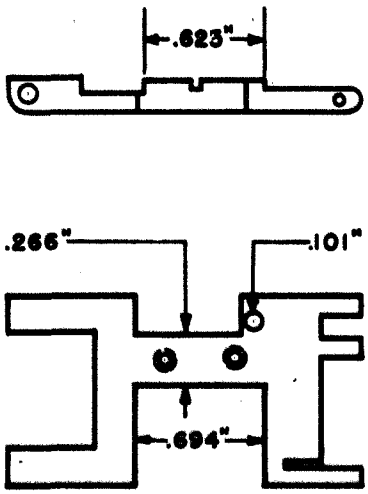

FIGURE 1

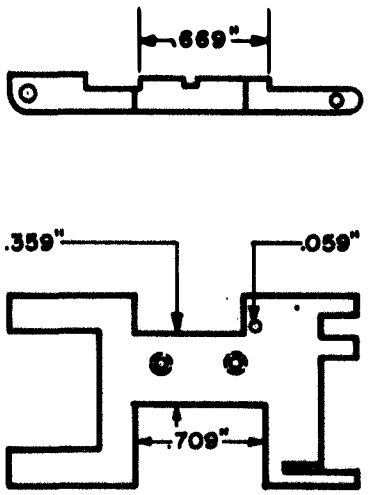

FIGURE 3

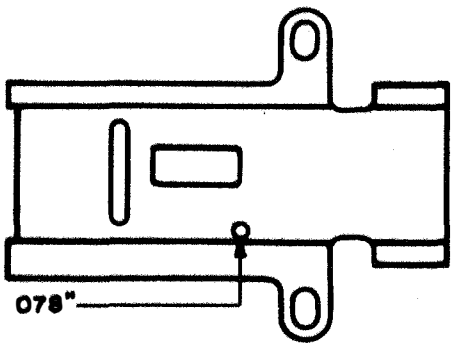

FIGURE 2

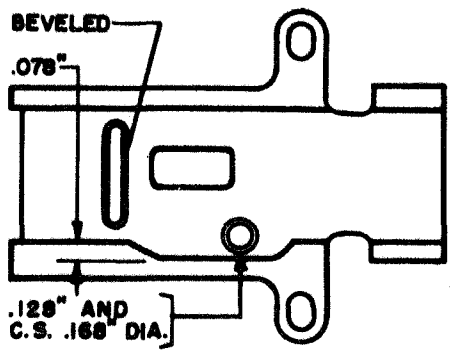

FIGURE 4

ADJUSTMENTS OF THE BREAK-LOCK MECHANISM ON TELETYPE MODEL 14 TRANSMITTER DISTRIBUTOR

To be used in conjunction with Bulletin No. 141 - DESCRIPTION AND ADJUSTMENTS - TRANSMITTER DISTRIBUTOR.

For transmitter distributors equipped with break-lock mechanism, which provides means for stopping transmission in response to a break signal which may be transmitted from receiving stations, or when steady signal line current has decreased to some predetermined value; add the following adjustments directly following Section (b) of BRAIDED BRUSH ADJUSTMENT - HIGH BRUSH ARM (Figure 29):

MOUNTING PLATE ADJUSTMENT (Figure 1)

With the distributor brush arm in the stop position, the end of the shunt contact lever should rest on its cam 1/32" (plus or minus 1/64") from the edge of its notch in the cam. To adjust, unhook the contact pawl spring from its spring post and position the mounting plate by means of its elongated holes. Rehook the spring.

MAGNET BRACKET ADJUSTMENT (Figure 1)

(1) With the armature held against the core of the magnet, both faces of the core should be flush against the armature.

(2) With the armature lever held against the high part of its cam by its spring, there should be .002" to .003" clearance between the magnet core faces and the armature.

To adjust for the first requirement, bend the magnet bracket at a point near the mounting plate. To adjust for the second requirement, position the magnet bracket by means of its enlarged mounting holes.

MAGNET CORE ADJUSTMENT

With the armature in its attracted position, the magnet core should be approximately equidistant from the ends and sides of the armature. To adjust, position the magnet core by means of the enlarged holes in the magnet bracket. Recheck the MAGNET BRACKET ADJUSTMENT. See Figure 1.

SHUNT CONTACT ADJUSTMENT (Figure 2)

Remove the shunt contact bracket from the mounting plate. Hook an 8 oz. scale to the insulator on the long contact spring and pull at right angles to the insulator. It should require 1 to 2 ozs. to separate the contact points. To adjust, bend the long contact spring. Replace the bracket.

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SHUNT CONTACT BRACKET ADJUSTMENT (Figure 1)

(1) With the shunt contact lever on the high part of its cam, there should be some clearance not over .003", between the post on the shunt contact lever and the insulator on the long shunt contact spring.

(2) Rotate the motor shaft by hand until the shunt contact lever just falls into the indent in its cam. With the contact pawl kept in the unlatched position, the shunt contact lever post should exert pressure on the insulator of the long contact spring and provide a contact gap of .010" to .020". To adjust for both requirements, position the shunt contact bracket by means of the enlarged mounting holes.

PUSH ROD LOCK ADJUSTMENT (Figure 3)

(1) With the stop pin of the push rod resting against its lock (in the unlocked position) the end of the push rod should rest in the bearing in the mounting plate and should not extend more than 1/32" beyond it.

(2) With the push rod in the disabled position, the contact lever should be disengaged from its cam. To adjust for both requirements, position the push rod lock by means of its elongated mounting holes.

BREAK CONTACT ADJUSTMENT

(1) With the contact pawl in the unlatched position and the push rod in its disabled position, initially tension the long BREAK contact spring against its short contact spring. Under this condition, there should be some clearance not over .003" between the insulator on the long BREAK contact spring and the stud on the contact pawl. See Figure 1. To adjust, bend the short BREAK contact spring.

(2) With the contact pawl in the unlatched position, hold the insulator on the long MAKE contact spring away from the insulator on the long BREAK contact spring. Under this condition hook an 8 oz. scale to the insulator on the long BREAK contact spring and pull at right angles to the spring. It should require 1 to 2 ozs. to separate the contacts and both contacts should break approximately simultaneously. See Figure 4. To adjust, bend the long BREAK contact spring. Recheck requirement (1).

MAKE CONTACT ADJUSTMENT

(1) With the contact pawl in the unlatched position, the insulator on the long MAKE contact spring should just make contact with the insulator on the long BREAK contact spring. See Figure 1. To adjust, bend the long MAKE contact spring.

(2) With the contact pawl in the unlatched position, initially tension the short MAKE contact spring against its stiffener. Under this condition the MAKE contact gap should be from .010" to .015". To adjust, bend the stiffener.

NOTE: It will be necessary to remove the 111456 cam while checking the following requirement:

(3) With the contact pawl in the latched position, and the armature held against the magnet core, hook an 8 oz. scale to each prong of the bifurcated short MAKE contact spring, at a point next to its contact, and pull at right angles to the spring. It should require a pull of 1 to 2 ozs. to break contact on each prong of the bifurcated spring. To adjust, bend the short MAKE contact spring. Recheck requirement (2). Replace the cam.

CONTACT PAWL SPRING TENSION

Unhook the contact pawl spring from the contact pawl, and its spring post and attach the loop of one end to some convenient object. With an 8 oz. scale hooked to the free loop it should require a pull of 3-1/2 to 4 ozs. to extend the spring to a length of 1-1/32", when pulling horizontally. See Figure 1. Replace the spring.

SHUNT CONTACT LEVER SPRING TENSION

With the shunt contact lever on the high part of its cam, hook an 8 oz. scale to the lever (just under the point of engagement of the shunt contact lever with the cam) and pull in a direction parallel to the side of the base casting. See Figure 1. It should require 6 to 8 ozs. to start the shunt contact lever moving away from the cam.

ARMATURE LEVER SPRING TENSION

Unhook the armature lever spring from the armature lever and hook a 2 lb. scale through the free loop. It should require a pull of 11 to 13 ozs. to extend the spring to a length of 1-1/2", when pulling horizontally. See Figure 1. Rehook the spring.

ARMATURE LEVER SPRING ADJUSTMENT

(1) The armature lever spring tension is set at the factory for use on .060 ampere, signal line circuits, with the break-lock mechanism operating so as to stop transmission if the signal line current is reduced to .020 ampere or less.

(2) The spring setting and operation of the break-lock mechanism must be checked by operating the transmitter distributor with its signal circuit in series with a local test (or comparable) circuit consisting of a source of 115 volts D. C., a milliameter, a variable resistor of approximately 6000 ohms and a jack, all in series. Adjust the resistor so that .020 ampere flows through the test circuit. Start the transmitter distributor in operation. If the

transmitter distributor is equipped with an end-of-tape stop feature, it will be necessary to short-circuit the associated contact or to run tape through the transmitter. The break-lock mechanism should operate and stop transmission within two revolutions of the distributor after each restarting with the push rod. When properly adjusted, the break-lock mechanism should stop transmission when the signal line current is .020 ampere or less, but should not stop transmission at any time when the steady current is .025 to .030 ampere. To adjust, loosen the two nuts which lock the armature lever spring stud and position the stud. See Figure 1.

If it is desired to use the break-lock mechanism on .020 ampere line circuits, the armature lever spring tension should be adjusted to such a value as to cause the mechanism to operate and stop transmission if the signal line current is reduced to some value below .020 amperes. A procedure similar to that outlined in Requirement 2 above should be followed.

LUBRICATION

1. Armature lever pivot points - oil
2. Contact lever pivot points - oil
3. Contact pawl at intersection with armature lever and with its guide and mounting plate bracket - oil
4. Cam - grease
5. Push rod at bearing points - oil
6. Springs - oil both loops

In lubricating the mechanism, care should be taken to see that oil does not lodge between the core faces and the armature or between contact points.

* * *

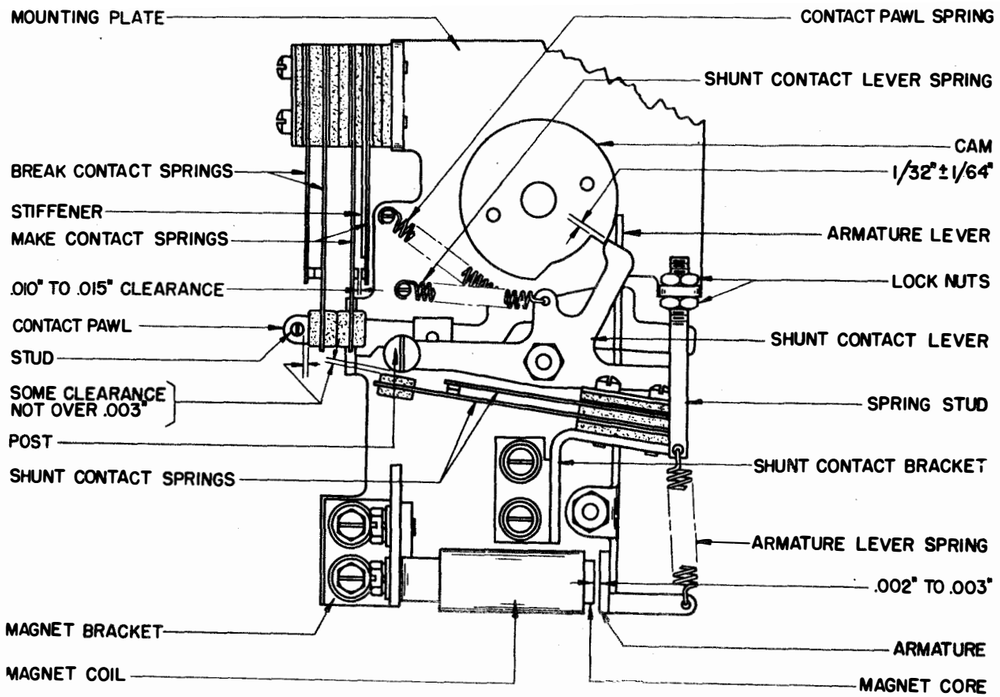


FIGURE 1

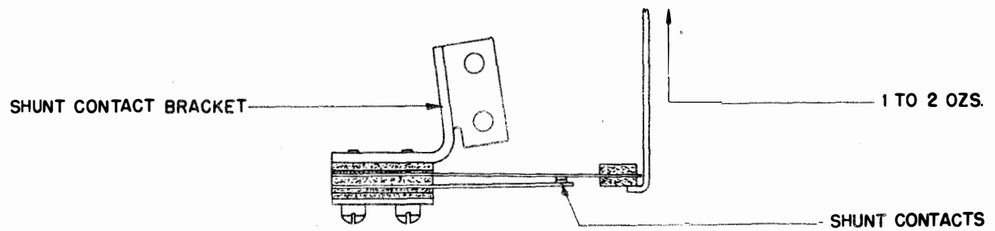


FIGURE 2

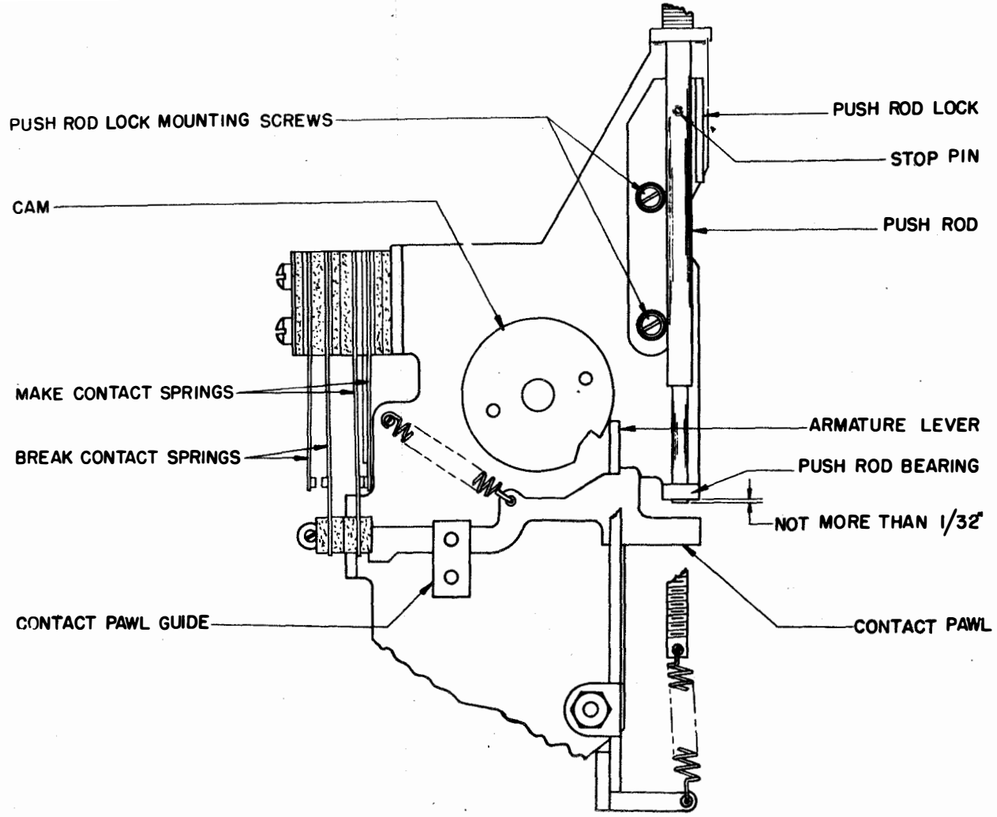


FIGURE 3

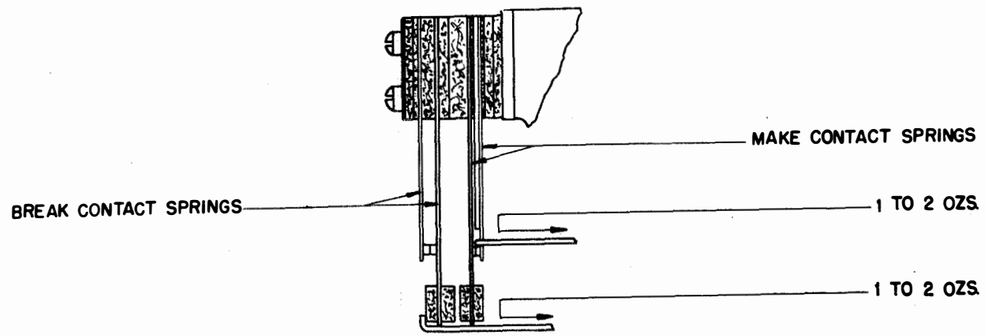


FIGURE 4

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

EE-582
Issue 1
January, 1948

CHANGES IN BULLETIN 141(ISSUE 3) DESCRIPTION AND ADJUSTMENTS TRANSMITTER DISTRIBUTOR AND BULLETIN 168 (ISSUE 2) DESCRIPTION AND ADJUSTMENTS SIGNAL DISTORTION TEST SET

PAGE 6, Bulletin 141
PAGE 4, Bulletin 168

STOP ARM POLIT SCREWS ADJUSTMENT

Change the requirement in the first sentence to read .002" to .050" instead of .002" to .030".

PAGE 3, Bulletin 168

MAIN SHAFT ADJUSTMENT

Change this adjustment to read as follows:

"Rotate the main shaft until the operating lever roller just starts to ride up the high part of the cam. With the operating lever play taken up in the direction that provides minimum clearance, there should be some clearance between the lower surface of the cam and the upper surface of the operating lever. With the operating lever play taken up in the direction that provides maximum clearance, this clearance should not exceed .040". To adjust, loosen the main shaft bearing cap screws and raise or lower the main shaft. Tighten the screws."

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

EE-591
Issue 1
December, 1947

CHANGES IN BULLETINS

141, Issue 3 Model 14 and 20 Transmitter Distributor, Page 19
147, Issue 2, Model 14 and 20 Nontyping Reperforator, Page 15
160, Issue 1, Model 20 Type Bar Page Printer, Page 39
170, Issue 1, Single and Multiple Transmitter Distributor and Base, Page 10
175, Issue 1, Single Unit Transmitter and Base, Page 8
176, Issue 1, Translator Unit, Receiving Distributor and Panel, Page 8
183, Issue 1, Portable Signal Distortion Test Set (Code Disc Operated), Page 6
193, Issue 1, Model 14 Reperforator Transmitter Distributor, Page 39

GOVERNOR BRUSH SPRING PLATE BRACKET ADJUSTMENT

Change the first paragraph to read as follows:

(a) A line established by the center of the outer disc and the center of one of the brushes should pass through some portion of the other brush.

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

EE-607
Issue 1
March, 1948

ADDITION TO BULLETINS

Bulletin 127, Issue 3, Type Bar Tape Printer (Model 14) , Page 36
Bulletin 137, Issue 2, Typewheel Tape Printer (Ticker), Page 29
Bulletin 138, Issue 5, Type Bar Page Printer (Model 15), Page 50
Bulletin 141, Issue 3, Transmitter, Page 18
Bulletin 147, Issue 2, Single Magnet Reperforator, Page 14
Bulletin 159, Issue 2, Typewheel Page Printer (Model 26), Page36
Bulletin 160, Issue 1, Type Bar Printer (Model 20), Page 38
Bulletin 170, Issue 1, Multiple Transmitter Distributor andBase, Page 9
Bulletin 171, Issue 2, Typing Reperforator, Page 22
Bulletin 175, Issue 1, Single Unit Transmitter and Base, Page 8
Bulletin 176, Issue 1, Translator Unit, Receiving Distributor and Pane, Page38
Bulletin 178, Issue 1, Reperforator Transmitter Distributor, Page 36
Bulletin 182, Issue 1, Multiplex, Start-Stop Extensor Set, Page 22
Bulletin 183, Issue 1. Portable Signal Distortion Test Set, Page 5
Bulletin 185, Issue 1, Multiple Transmitter Distributors and Base, Page 12
Bulletin 186, Issue 1, Two Channel Start-Stop Transmitter Distributor, Page 20
Bulletin 189, Issue 1 XD79 and XD95 Distributors, Page 15
Bulletin 192, Issue 1, Teletype Automatic Wheatstone Perforator Set, Page 19
Bulletin 193, Issue 1, Reperforator Transmitter Distrivutor (Model 14), Page 39
Bulletin 197, Issue 1, Multiple Reperforator Set, Page 25

Add the following adjustment immediately preceding the "SPEED ADJUSTING WHEEL FRICTION WASHER SPRING TENSION ADJUSTMENT":

ADJUSTMENTS FOR ALIGNMENT AND SQUARENESS OF GOVERNOR CONTACTS

All governor contacts can be adjusted for alignment of edges; only those governor shells which provide alongated mounting holes for the fixed contact bracket permit adjustment of the contact for height by positioning the contact bracket.

The governor contacts should be in line and meet squarely so that maximum contact surface is provided. (Check with the retractile spring tension Adjusted so that the contacts just make, or the the limit of the adjusting screw).

(a) Line up edges of contacts by means of the floating contact hinge mounting screw.

(b) Adjust contacts for squareness from right to left by positioning the height of the fixed contact bracked using the elongated mounting holes in the governor shell.

(c) To adjust from front th cack, twist the floating contact hinge, applying pressure to the arm near the contact.

NOTE: Check by use of a .002" gauge (smaller if available). Check with gauge between edges of contacts to see that the gauge enters (or does not enter equally on all sides.

* * *

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

EE-632
Issue 1
June, 1948

CHANGES AND ADDITIONS TO BULLETIN 141, ISSUE 3 DESCRIPTIONS AND ADJUSTMENTS TRANSMITTER DISTRIBUTOR

These requirements apply to transmitter distributor XD204 which is equipped with a 925 ohm 115 v. D.C. stop magnet and a stop-magnet contact located directly above the stop magnet. The stop-magnet armature actuates the contact and is operable on D.C. only. The contact connects to an external circuit.

PAGE 7

Add the following immediately after the "STOP ARM SPRING TENSION (Figure 14)":

The following stop magnet contact requirement applies only to transmitter distributors equipped with a stop-magnet contact which is positioned directly above the stop magnet. The stop magnet armature actuates the contact.

The standard 5 to 7 ozs. stop arm spring tension requirement applies to XD204 regardless of the type of motor used. Hold off the contact spring when measuring.

STOP MAGNET CONTACT ADJUSTMENT

With the armature held against the magnet core, the stop magnet contact should meet the first three of the following requirements. (If there is no clearance between the armature and the insulator on the long contact spring, move the upper contact bracket forward to provide clearance.)

(1) The contact springs and stiffener should be in line and the whole pile-up should be vertical to the base casting. Adjust by means of the pile-up mounting screws.

(2) The short contact spring should bear against its stiffener with perceptible pressure. To adjust, bend the short contact spring.

(3) With an 8 oz. scale hooked over the long contact spring at the contact point and pulled at a right angle to the spring, it should require 1 to 1-1/2 ozs. to break the contact. To adjust, bend the long contact spring.

(4) With the stop arm on the low part of the stop cam there should be a gap of .015" to .020" between the contact points. When the armature is held against the magnet core there should be some clearance between the insulator on the long contact spring and the armature. To adjust, position the upper contact bracket. Tighten the mounting screws.

* * * * *

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 bearings. 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

* Indicates change

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 oiler 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.

CHANGES AND ADDITIONS
BULLETIN 141 (ISSUE 3)
DESCRIPTION AND ADJUSTMENTS
TRANSMITTER-DISTRIBUTOR (MODEL 14)

Page 5

MAIN SHAFT ADJUSTMENT (Figure 10)

Change this adjustment to read as follows:

Rotate the main shaft until the operating lever roller just just starts to ride up the high part of the cam. Position the main shaft so that there is some clearance between the lower surface of the cam and the upper surface of the operating lever when all the play of the operating lever is taken up in a direction to make the clearance a minimum. With the play in the operating lever taken up in a direction to make the clearance a maximum, this clearance should not exceed .040". To adjust, loosen the main shaft bearing cap screws and raise or lower the main shaft. Tighten the screws.

Page 6

UNIVERSAL MAGNET (Figure 11)

Add the following to the first paragraph:

The side of the tape stop magnet armature stamped "C" designates heavy chrome plating. This side should be next to the magnet core when the unit is wired for DC operation of the magnet. When the wiring is for AC operation, the "C" side should be away from the magnet core in order to reduce chatter and AC hum.

Page 7

DETENT LEVER SPRING TENSION (Figure 16)

Change the wording of the last line and add an additional line as follows: "It should require 15 to 18 ozs. to start the detent lever moving when the detent lever is provided with a rounded surface opposite the round boss for the spring, as shown on Figure 16. When a new style detent lever having a protruding rib to facilitate hooking of the scale is provided, the spring tension should measure 12 to 15 ozs."

Add the following adjustment just prior to the TAPE SPACE ADJUSTMENT (Figure 18):

TAPE RETAINING LID LATCH WEARING STRIP SHIMS ADJUSTMENT.

With a .003" thickness gauge placed between the retaining lid and the front guide rail on the tape guide plate the latch should not close freely. With the gauge removed and the retaining lid held against the front guide rail on the tape guide plate, the latch should operate freely under its own spring tension.

To adjust, increase or decrease the number of shims installed between the latch wearing strip and top plate.

TAPE SPACE ADJUSTMENT (Figure 18)

In the first sentence change the specified clearance to read ".011" to .014" instead of ".012" to .014", and add after the words "latched closed" the following: "and the end play taken up in a direction to make this clearance a minimum."

Page 8

DETENT BRACKET ADJUSTMENT (Figure 17)

Change this adjustment to read as follows:

Obtain a piece of tape with a series of LETTERS perforations. Either regular tape or chadless tape may be used. Check the tape to determine if the spacing of the perforations meets the requirement of ten to the inch. (If chadless tape is used, fold the lids of one set of five perforations backward so that the lids do not obstruct the holes.) Engage the feed perforations with the feed wheel so that the unobstructed perforations are directly over the tape pins. Disengage the stop arm from the stop cam lug and rotate the governor or fan in a clockwise direction (when the unit is viewed from the front) until the tape pins are flush with the bottom of the tape. Check to see that the detent roller is resting in an indent between two teeth of the feed wheel ratchet. When the play of the tape on the feed wheel is taken up toward the left, the tape pin farthest to the right should just clear the right edge of its associated code hole. To adjust, loosen the detent bracket mounting screws and position the bracket. Tighten the screws.

Page 9

FEED LEVER UPSTOP ADJUSTMENT (Figure 21)

Change the clearance requirement of the second paragraph to read ".050" to .070" instead of ".040" to .050" and add a sentence following the first sentence of this paragraph as follows: "The feed lever should be in contact with the blocking surface of the feed lever upstop."

Page 9 (Cont'd)

Add a third paragraph and note to this adjustment as follows:

"Rotate the motor manually until the adjusting lever (Figure 20) just contacts the lobe on the feed lever. With the contact lever bail in this position there should be at least .002" clearance between the bail and each contact lever lobe. If necessary, refine the feed lever upstop adjustment."

NOTE: With the operating lever on the low part of the operating cam, there should be at least .010" clearance between the radius of the feed pawl or the feed pawl spring and the feed wheel ratchet. If this clearance does not exist, refine the feed lever upstop adjustment.

Page 10

CONTACT LEVER SPRING TENSION ADJUSTMENT (Figure 23)

Change these requirements to read 3 to 4 ozs. instead of 3 to 3-3/4 ozs. for units operating with regular tape and 6 to 7 ozs. instead of 6 to 6-1/2 ozs. for units operating with chadless tape.

Page 18

SPEED ADJUSTING WHEEL FRICTION WASHER ADJUSTMENT (Figure 35)

Change the requirement in the second paragraph to read "16 to 24ozs." instead of "16 to 20 ozs."

* * *

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

CE-646
Issue 1, Page 1
September, 1948

CHANGES AND ADDITIONS TO BULLETIN NO. 1109 (ISSUE 1) PARTS - TRANSMITTER DISTRIBUTOR

PAGE 1

The 73180 toggle switch (assem.) has been replaced by a more durable 107393 toggle switch (assem.) which includes a 91683 nut (hex.) and a 91684 nut (ring).

PAGE 2

The 2084 roller, 1196 screw and 3598 nut, used on the 77049 operating lever, have been replaced by a 112577 roller, 1041 screw and 3606 nut respectively. The 2191 lock washer is to be used with both the new and old style parts, and the 8330 washer is used only with the old style parts. The complete group of new style parts must be used together as they are not individually interchangeable.

PAGE 3

In addition to the 8896 shims (.004" thick), 96874 shims (.002" thick) may be ordered for use between the bracket and the yoke of the universal release magnet, in order to obtain a uniform clearance between the yoke and the armature.

The 4703 spring, used in the 77001 stop arm, has been replaced by an 80581 spring.

PAGE 4

In the 9520 terminal block (assem.), the 300-178 spring anchors have been replaced by 101713 terminals.

In the 77080 slip connection strip (assem.) the 1262 screws (5/16" long) have been replaced by 101456 screws (9/32" long).

PAGE 6

In the top view of the top plate, a 103-27 washer should be listed under the 1162 screw.

The 122-97 bushing - bakelite (125" long), shown in the lower right corner, has been replaced by 105220 bushing - bakelite (.148" long).

PAGE 7

The 1159 screw (3/8" long), shown in the bottom view of the top plate, has been replaced by an 1177 screw (11/32" long).

PAGE 8

The 78206 resistance unit (assem.), having two 78205 resistors of 300 ohms each, has been replaced by a 70361 resistor unit (assem.), having two 70722 resistors of 500 ohms each.

Printed in U.S.A.

The 4871 bolt (with 70887 nut) used for mounting the two resistors of the resistor unit (assem.) is listed incorrectly in that the nut is not furnished with the bolt. The bolt and nut are separate items and should be ordered as such.

The 6746 screws (5/16" long), used for mounting the resistor unit (assem.), have been replaced by 80444 screws (1/4" long).

In the 95326 governed motor filter unit (assem.), a 2247 washer has been added at each of the 84990 screws and is used as a separator between the vertical leg of the 94678 bracket and the left side of the 92216 filter (assem.)

PAGE 12

The 1100 screw and 2449 lock washer, listed on the left side of the page, have been replaced by a 116992 screw and a 104451 lock washer.

In order to prevent excessive end play of the motor shaft, 91617 shims (.010" thick) are available for use on the shaft between the governor and the motor. These shims are not part of 6708 motor.

The G.E. model number "28479", for the 6708 motor, should read "28478".

PAGES 13 and 16

In order to standardize the method of wiring governor brush filters, the positions of the disc brush springs (with brush) have been transposed, that is, the 78400 inner disc brush spring (with brush) will be mounted in the lower position and the 78399 outer disc brush spring (with brush) will be mounted in the upper position.

PAGE 19

The following changes have been made in the list of components shown under 86700 set of motor and gear parts:

(a) A 6746 screw and a 2191 lock washer have been added and are used to secure the 77034 pinion - 7T to the motor shaft.
(b) The 72665 target - 23 spots has been omitted.
(c) The 78206 resistance unit (assem.) should read 70361 resistor unit (assem.).
(d) The 6746 screws (following 78206) have been replaced by 80444 screws.
(e) The 1100 screw has been replaced by a 116992 screw.
(f) The 2449 lock washer has been replaced by a 104451 lock washer.
(g) The 4703 spring has been replaced by an 80581 spring.

* * *

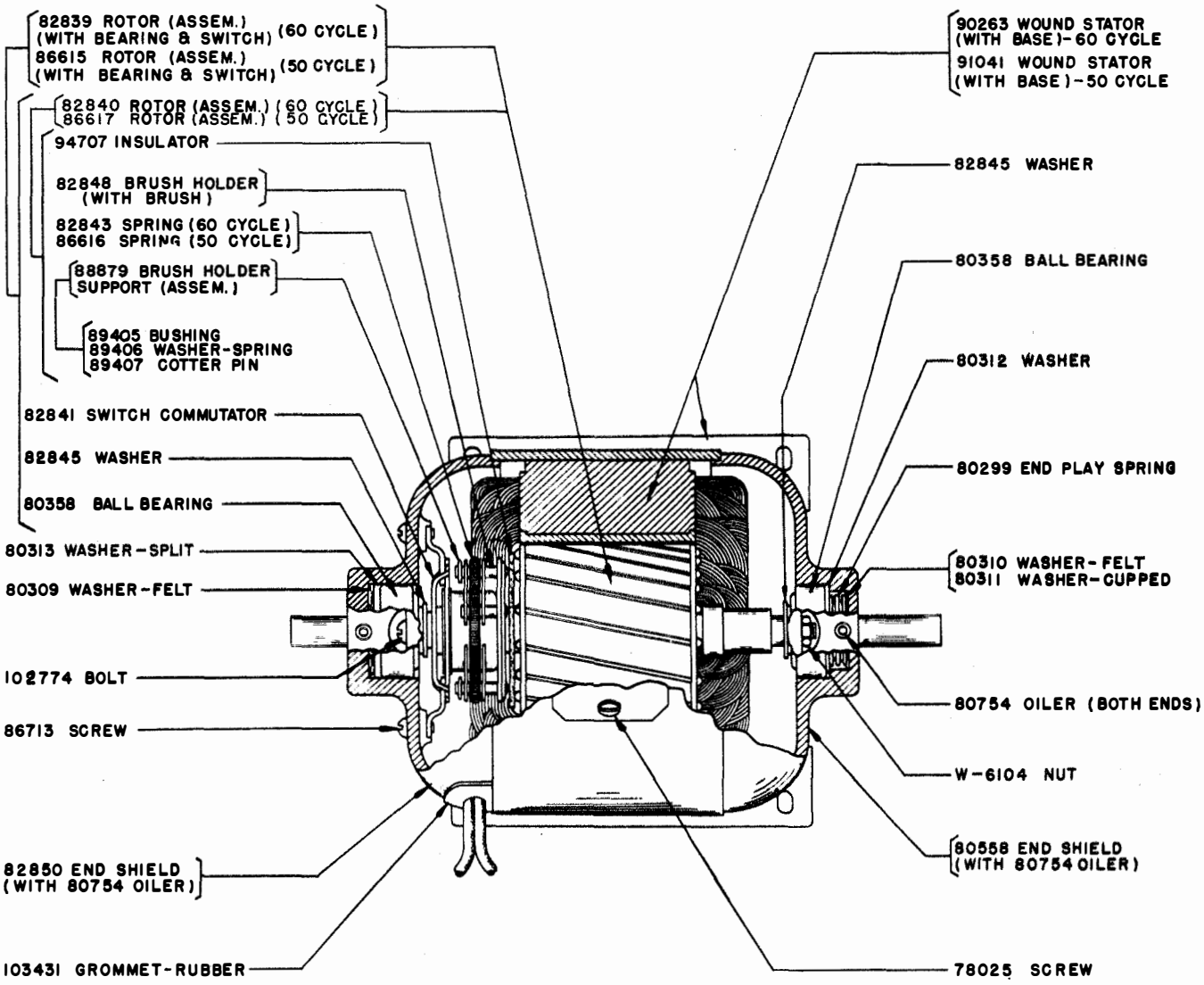
CHANGES AND ADDITIONS
TO THE FOLLOWING PARTS BULLETINS

1028	1063	1087	1106	1120	1132
1030	1064	1095	1107	1122	1133
1031	1072	1096	1108	1123	1137
1036	1079	1101	1109	1125	1141
1037	1080	1102	1110	1126	1143
1041	1082	1103	1116	1127	1144
1048	1083	1104	1117	1130	1145
1051	1084	1105	1119	1131	

This correction sheet (which replaces EE-480 and EE-506) covers parts ordering information for the motors, center contact governors, governor brushes, and speed adjusting brackets associated with apparatus cataloged in the bulletins listed above.

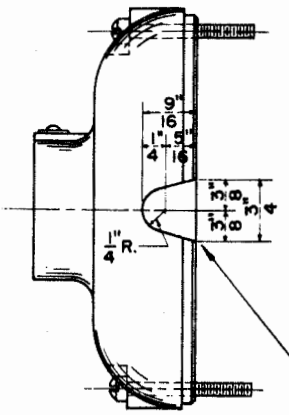
CONTENTS

(A) See Note 1 on Page 8
(B) See Note 1 on Page 3
(C) See Note 1 on Page 7
(D) See Note 1 on Page 6



82283 SYNCHRONOUS MOTOR, 1/40 H.P., 110V., 60 CYCLE A.C. (G.E MODEL 5SH25AB11B)
(NEW STYLE-SEE PAGE 3 FOR OLD STYLE)

82714 SYNCHRONOUS MOTOR, 1/40 H.P., 110V., 50 CYCLE A.C. (G.E. MODEL 5SH25AB14B)

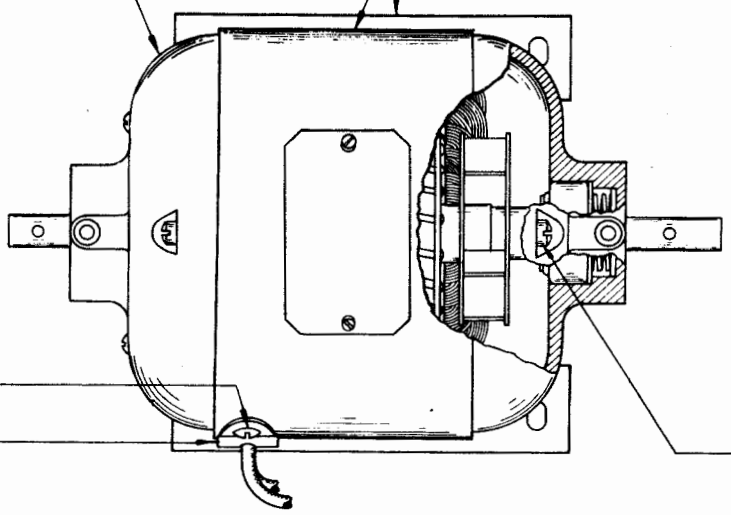


OLD STYLE 82850 END SHIELDS MAY BE WORKED OVER FOR USE WITH NEW STYLE MOTORS BY ADDING WIRE OUTLET HOLE AS ILLUSTRATED.

82850 END SHIELD - HAS BEEN REDESIGNED BUT RETAINS ITS ORIGINAL PART NUMBER. THE NEW STYLE END SHIELD (WITH WIRE OUTLET HOLE) CAN ALSO BE USED ON THE OLD STYLE MOTORS. THE OLD STYLE END SHIELD (WITHOUT WIRE OUTLET HOLE) CANNOT BE USED ON THE NEW STYLE MOTORS UNLESS IT BE WORKED OVER AS ILLUSTRATED ABOVE.

THE 90263 WOUND STATOR (WITH BASE) HAS BEEN REDESIGNED BUT RETAINS ITS ORIGINAL PART NUMBER. WHEN REPLACING AN OLD STYLE STATOR (WITH TAPPED HOLES FOR THE END SHIELD CLAMPING STUDS) WITH A NEW STYLE STATOR (WITH BODY HOLES FOR THE END SHIELD BOLTS) THE FOLLOWING NEW STYLE PARTS SHOULD BE ORDERED:

90263 WOUND STATOR (WITH BASE) ------ 1
82850 END SHIELD (OR WORK OVER OLD STYLE END SHIELD) -------- 1
103431 GROMMET - RUBBER -- 1
102774 BOLT ---------- 2
W-6104 NUT ---------- 2



80351 SCREW

80307 OUTLET (WITH 80308 BUSHING - FIBRE)

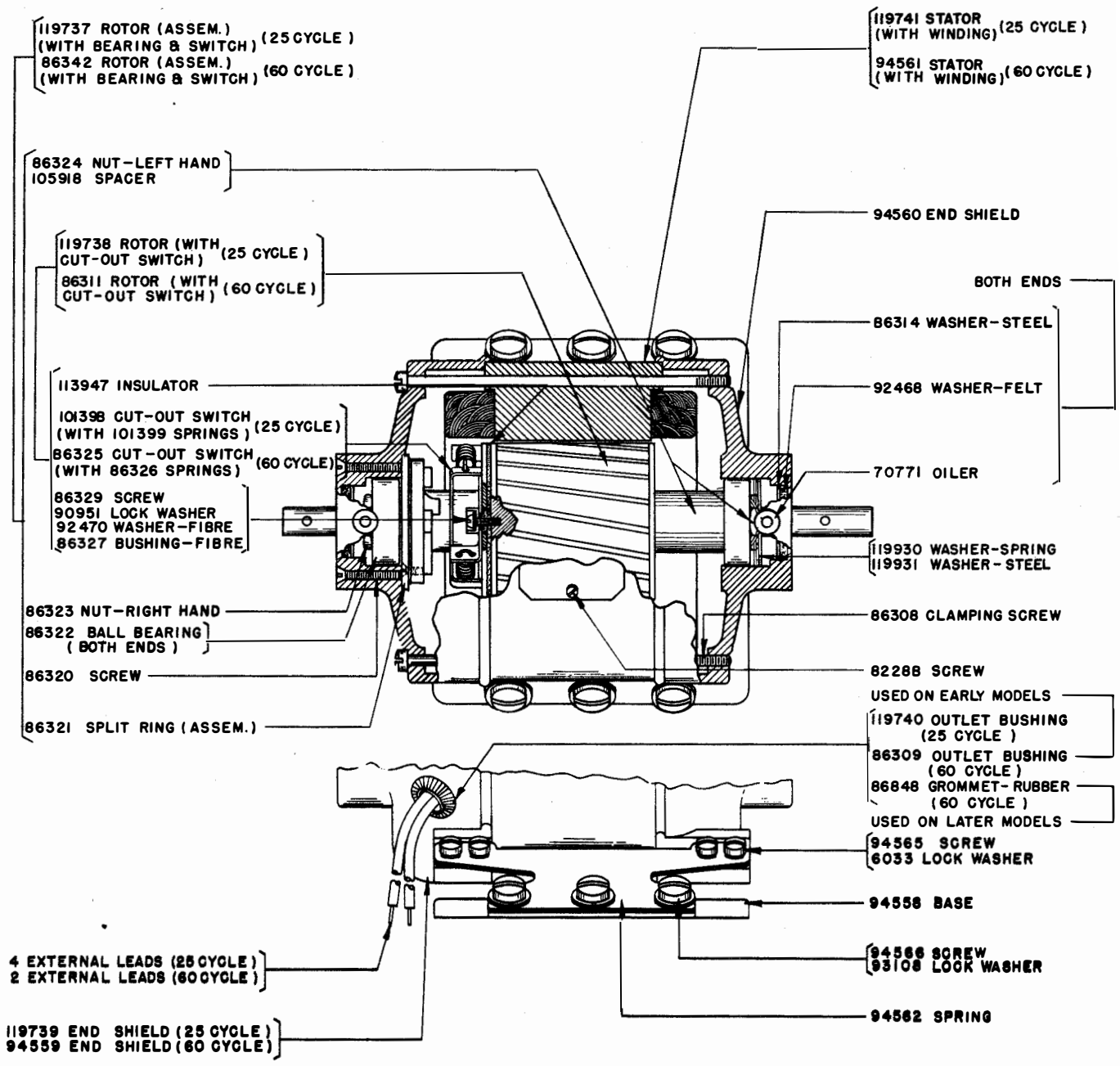
80559 CLAMPING STUD

82283 SYNCHRONOUS MOTOR, 1/40 H.P., 110 V., 60 CYCLE A.C. (G.E. MODEL 5SH25ABII)
OLD STYLE - SEE PAGE 2 FOR NEW STYLE
PARTS NOT LISTED SAME AS THOSE SHOWN ON PAGE 2

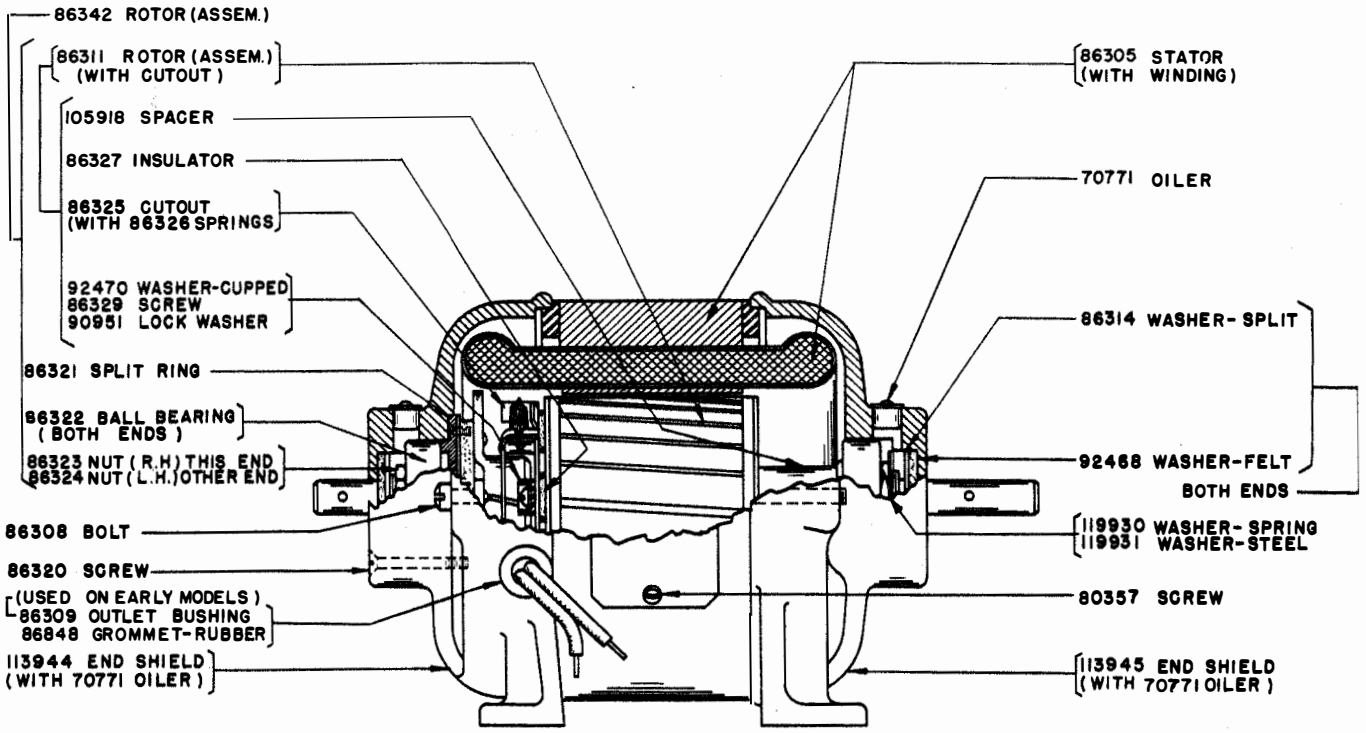
NOTE 1

THE FOLLOWING FOUR MOTORS ARE THE EARLY MODELS OF THE NEW STYLE 82283 MOTOR AND ARE NO LONGER AVAILABLE. WHEN IT IS DESIRED TO REPLACE ANY ONE OF THESE FOUR OBSOLETE MOTORS AN 82283 MOTOR (G.E. MODEL 5SH25AB11B) SHOULD BE ORDERED INSTEAD.

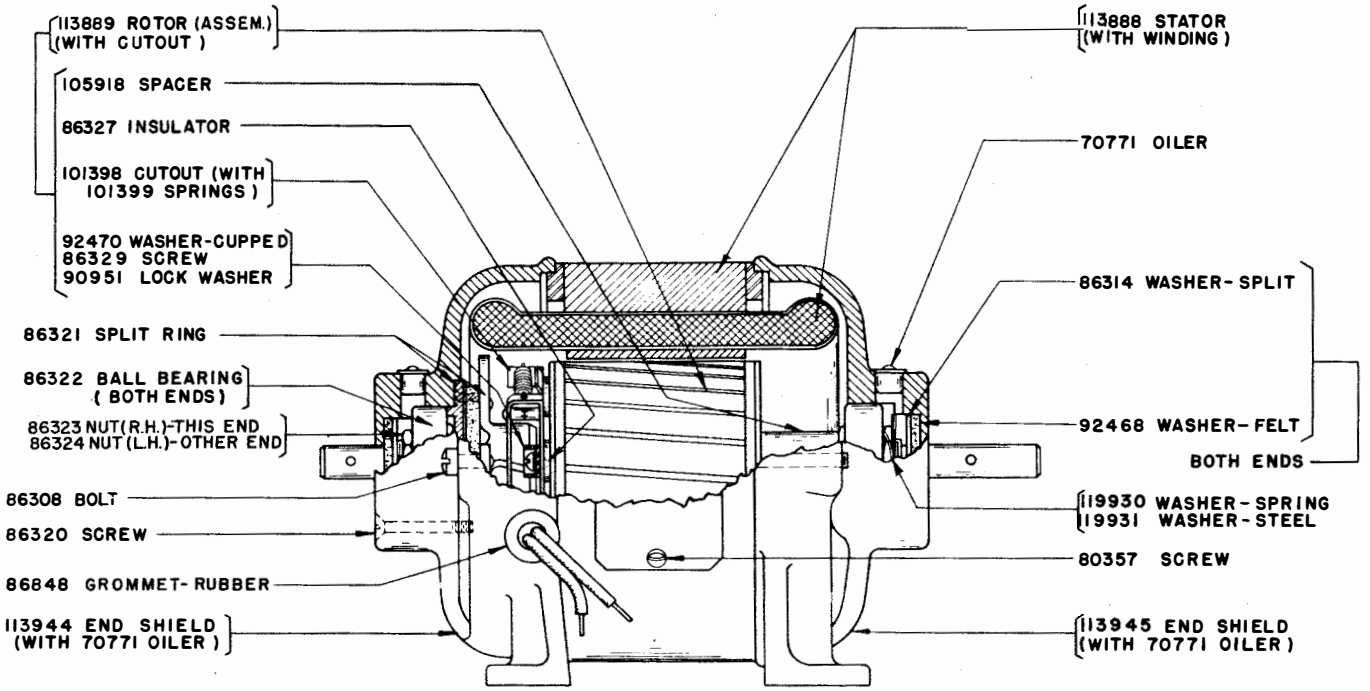
74931 MOTOR (MODEL 39078 OR 5SH25AB1)
78217 MOTOR (MODEL 73233)
80553 MOTOR (MODEL 38367, 5SH25A82 OR 5SH25AB21)
82622 MOTOR (MODEL 5SH25A87)



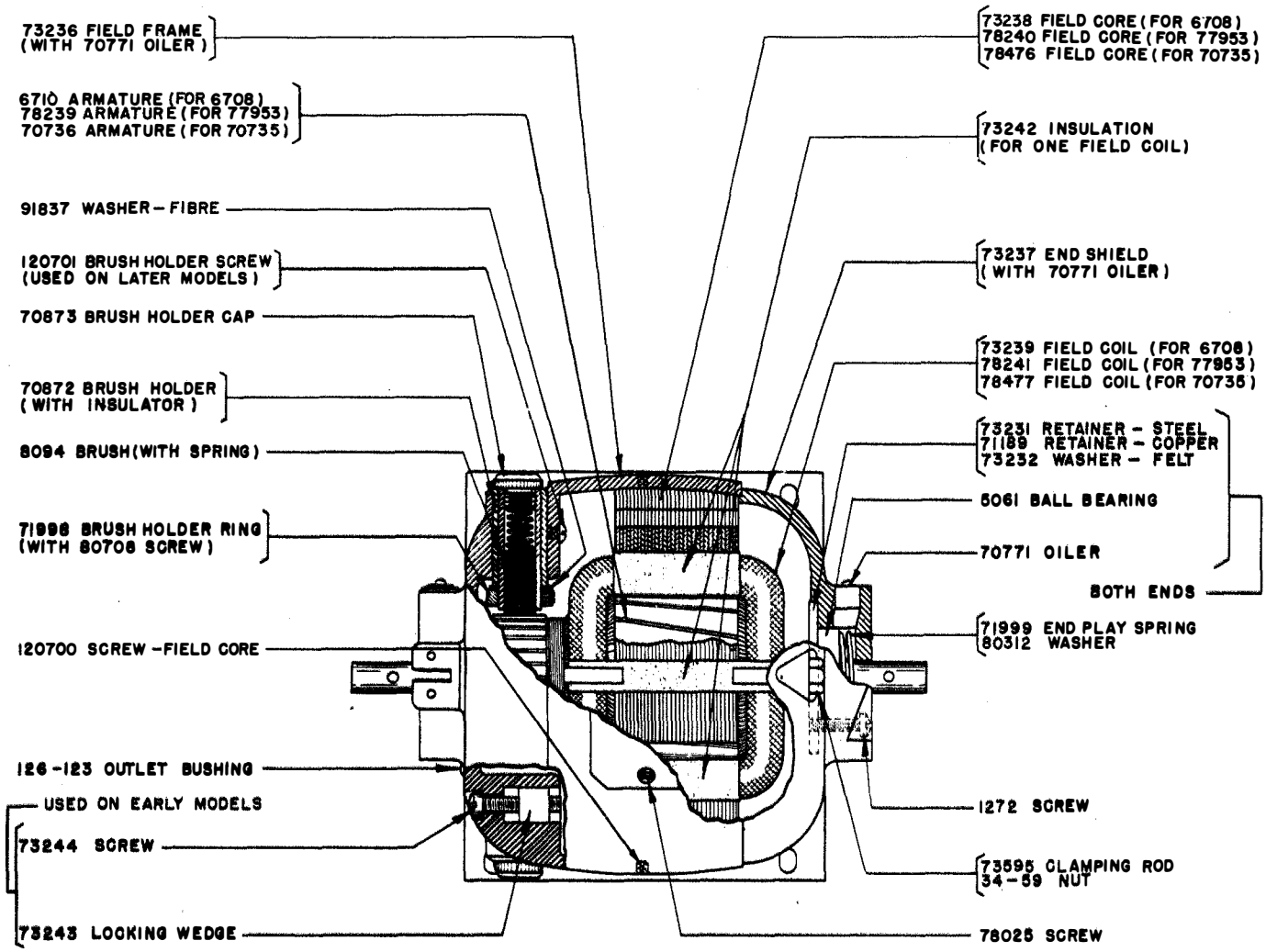
114321 SYNCHRONOUS MOTOR, 1/40 H.P. 115 V., 25 CYCLE A.C. (H.C. MODEL S-9060)
92575 SYNCHRONOUS MOTOR, 1/40 H.P. 115 V., 60 CYCLE A.C. (H.C. MODEL S-9017)



83799 SYNCHRONOUS MOTOR, 1/40 H.P., 115 V., 60 CYCLE A.C. (H.C. MODEL S-9005)



104061 SYNCHRONOUS MOTOR, 1/40 H.P., 115 V., 50 CYCLE A.C. (H.C. MODEL S-9049)

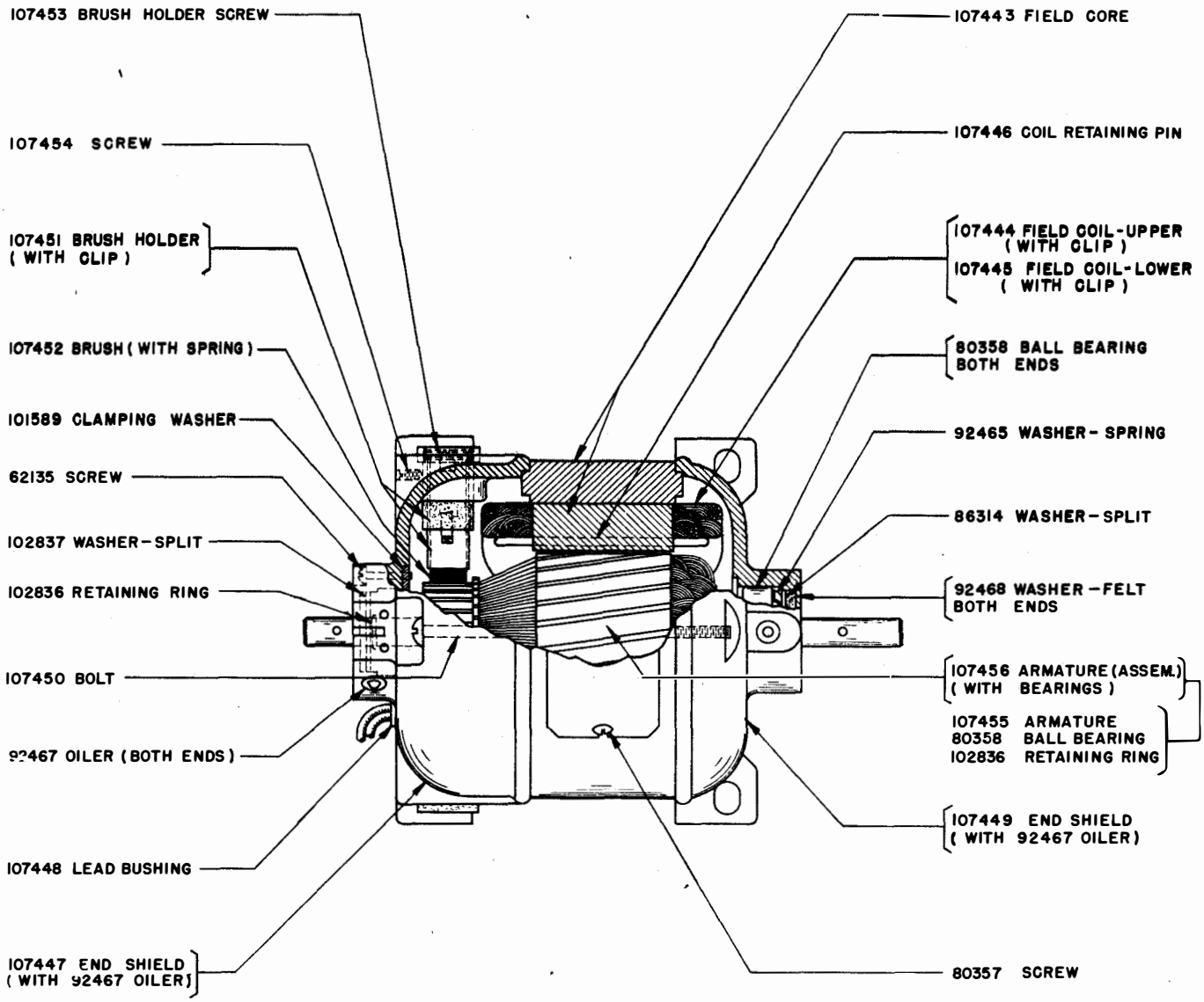


6708 SERIES MOTOR, 1/25 H.P., 110V., 60 CYCLE A.C. (G.E MODELS 28478 OR 5BA65AA77)
77953 SERIES MOTOR, 1/25 H.P., 110V., 60 CYCLE A.C. (G.E. MODELS 32989 OR 5BA65AA29)
70735 SERIES MOTOR, 1/25 H.P., 220V., 60 CYCLE A.C. (G.E. MODELS 31810 OR 5BA65AA116)

NOTE 1

THE 106875 MOTOR (ELECTRIC SPRAYIT, MODEL 8-9057) WAS SUPPLIED AS A WAR TIME SUBSTITUTE FOR THE 77953 MOTOR AND IS NO LONGER AVAILABLE. WHEN IT BECOMES NECESSARY TO REPLACE THE 106875 MOTOR OR ANY OF ITS COMPONENTS A COMPLETE 77953 MOTOR MUST BE ORDERED.

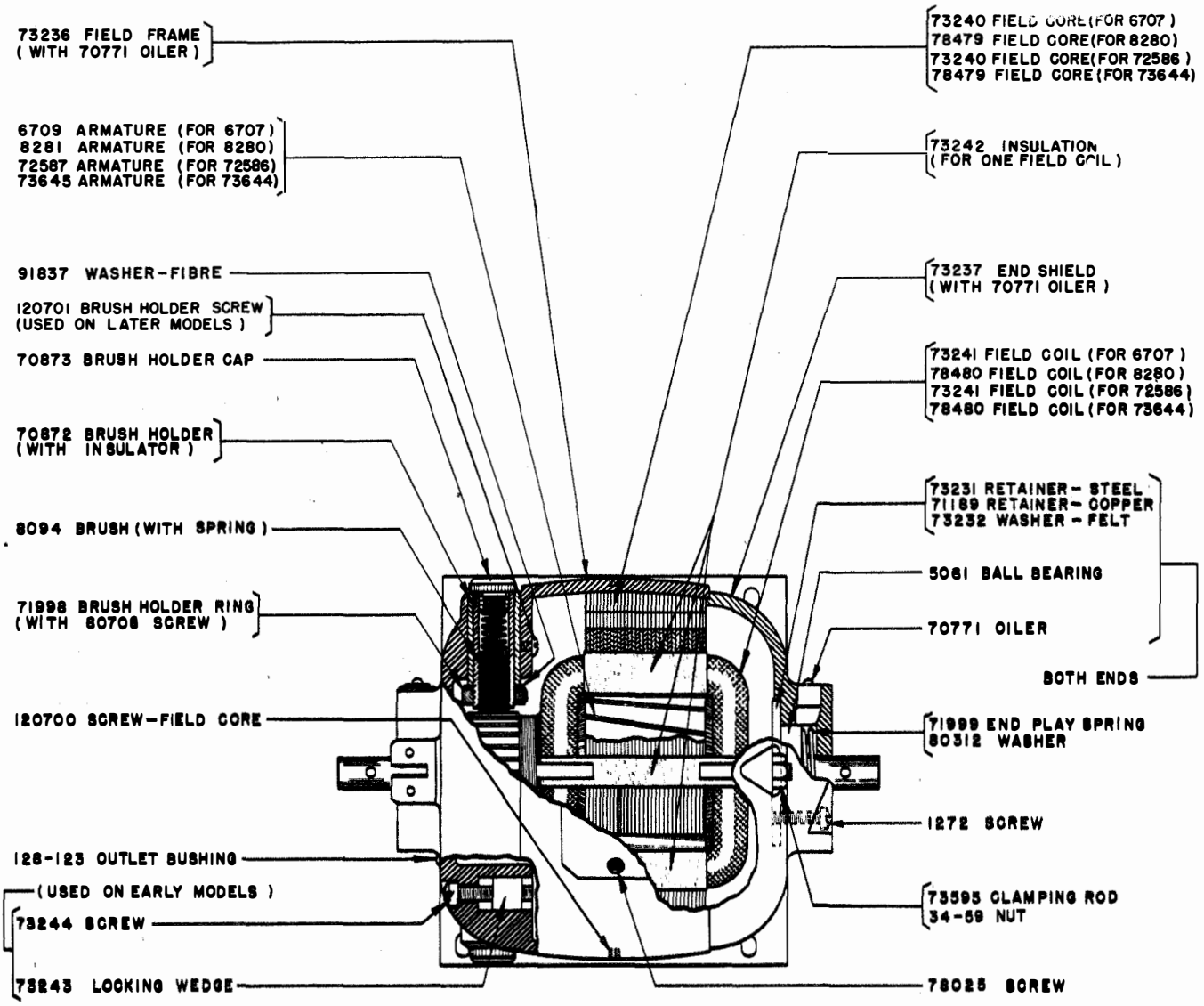
THE 107151 MOTOR (ELECTRIC SPRAYIT, MODEL 8-9058) WAS SUPPLIED AS A WAR TIME SUBSTITUTE FOR THE 6708 MOTOR AND IS NO LONGER AVAILABLE WHEN IT BECOMES NECESSARY TO REPLACE THE 107151 MOTOR OR ANY OF ITS COMPONENTS A COMPLETE 6708 MOTOR MUST BE ORDERED.



104038 SERIES MOTOR, 1/25 H.P., 115V., 50-60 CYCLE A.C. (H.C. MODEL S-9050)

NOTE 1

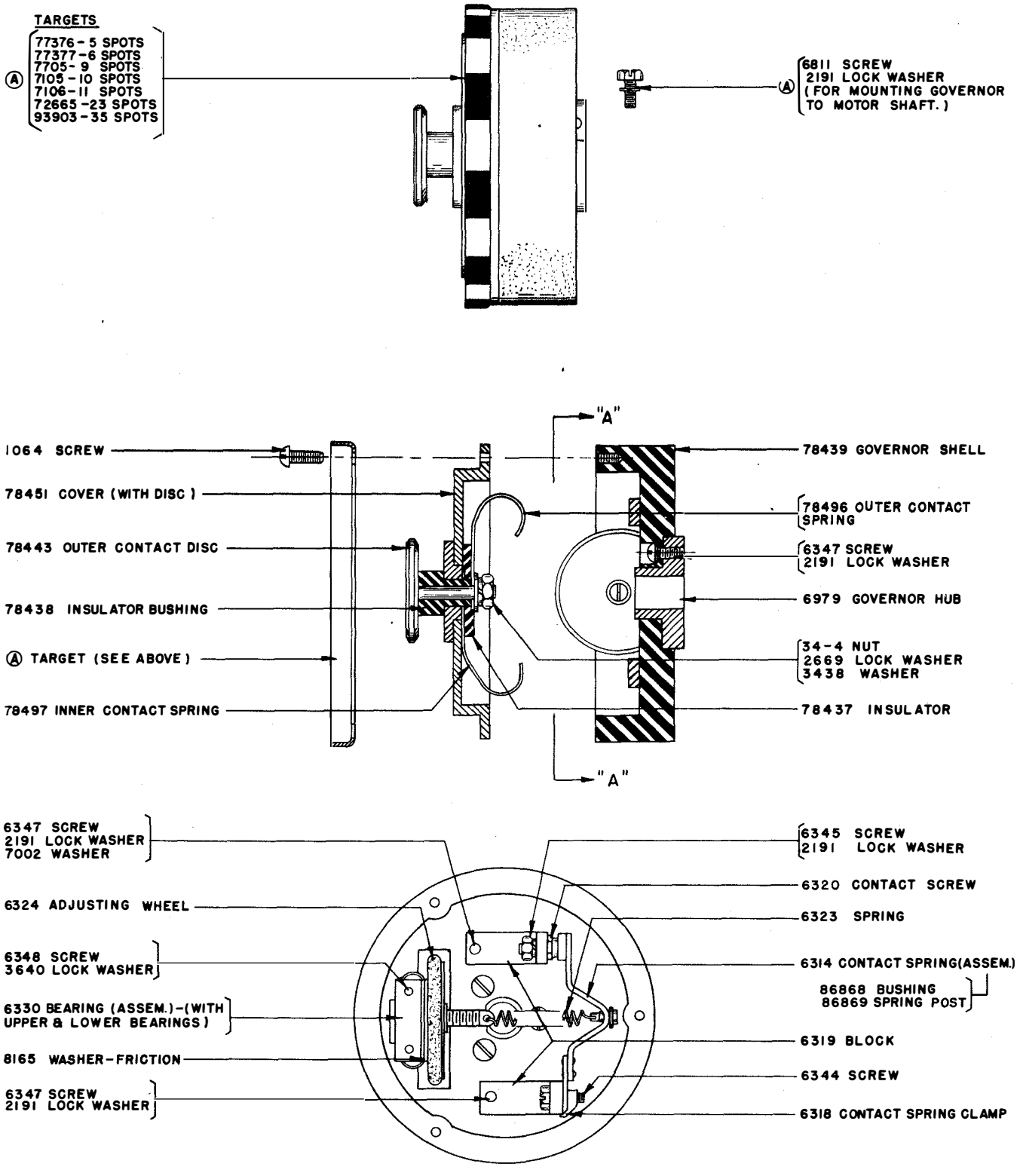
THE 104038 SERIES MOTOR IS NO LONGER AVAILABLE. ON FUTURE ORDERS FOR NEW MOTORS A 77953 SERIES MOTER (SHOWN ON PAGE 6) WILL BE SUBSTITUTED. PARTS LISTED ABOVE WILL BE SUPPLIED SO LONG AS THEY ARE AVAILABLE.



6707 SHUNT MOTOR, 1/20 H.P., 110V., D.C. (G.E. MODEL 28479 OR 5BY30A6)
8280 SHUNT MOTOR, 1/20 H.P., 220V., D.C. (G.E. MODEL 31382 OR 5BY30A7)
72588 SHUNT MOTOR, 1/17 H.P., 110V., D.C. (G.E. MODEL 31531 OR 5BY30A3)
73644 SHUNT MOTOR, 1/17 H.P., 220V., D.C. (G.E. MODEL 33373 OR 5BY30A10)

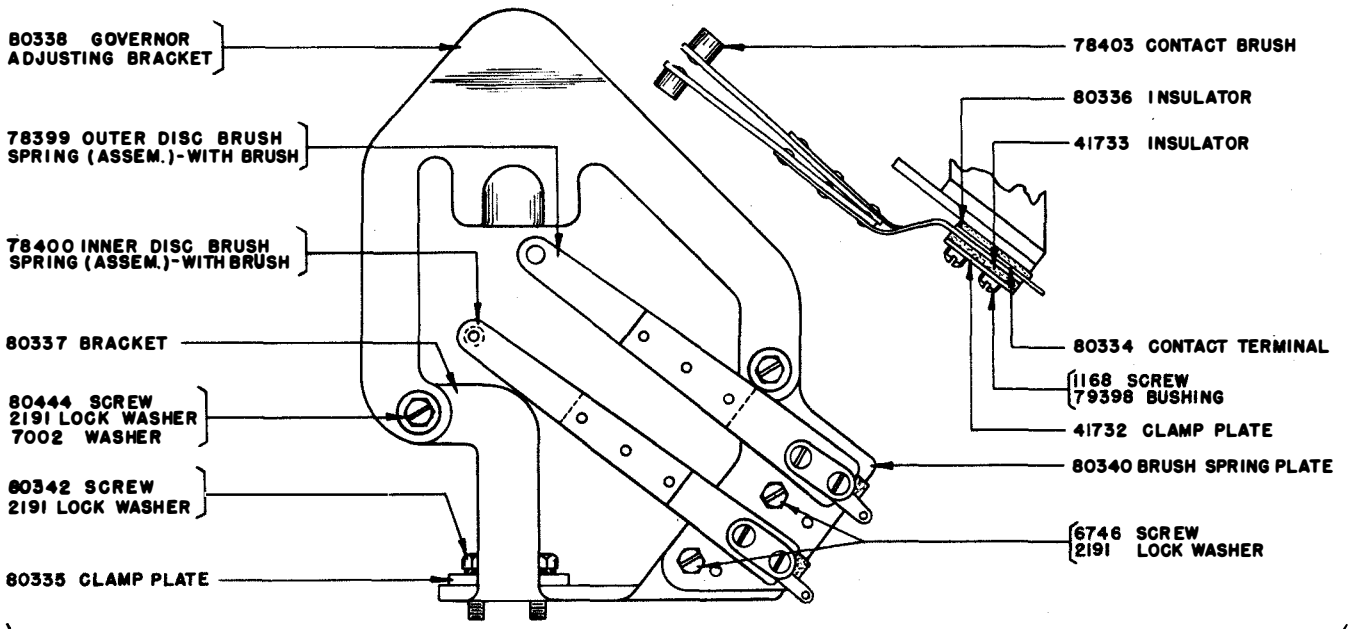
NOTE 1

THE 71810 MOTOR (12 VOLT) IS NO LONGER MANUFACTURED. ALL PARTS SHOWN ABOVE, WITH THE EXCEPTION OF THE ARMATURE, BRUSH, FIELD CORE AND FIELD COIL, ARE STILL AVAILABLE FOR USE WITH 71810 MOTOR.

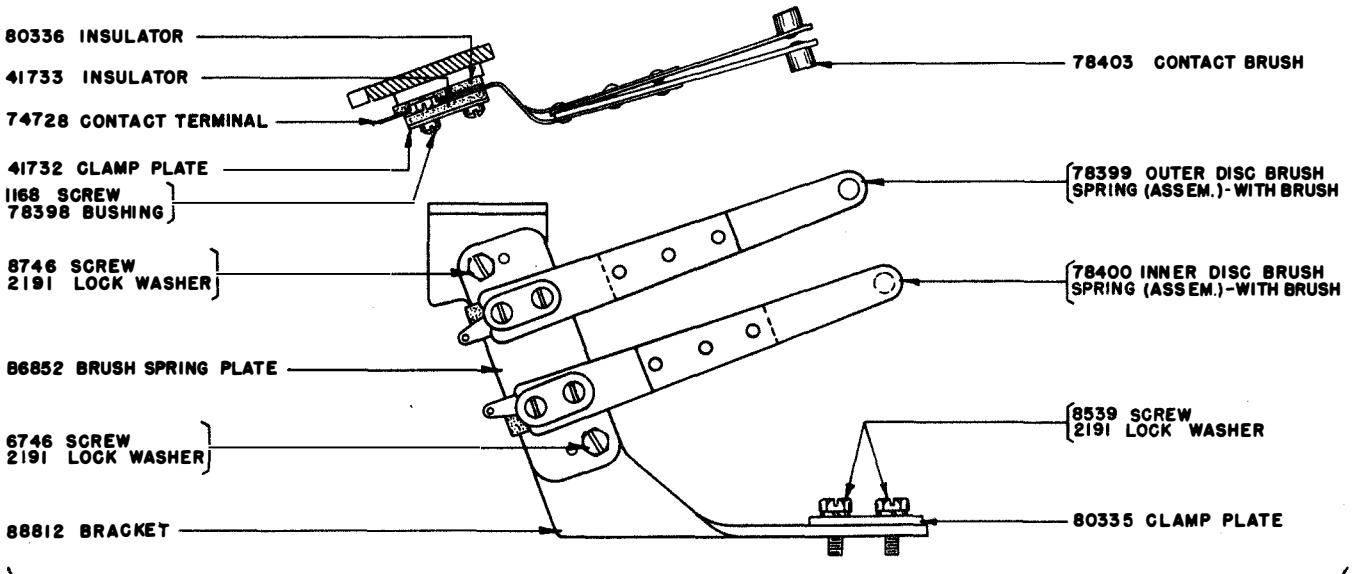


VIEW AT "A-A"

80352 CENTER CONTACT GOVERNOR (ASSEM.)
(EXCLUDES PARTS MARKED Ⓐ)



80341 GOVERNOR BRUSH & SPEED ADJUSTING BRACKET (ASSEM.)
(MAY BE USED ON ALL UNITS EXCEPT TRANSMITTER DISTRIBUTORS)



86853 GOVERNOR BRUSH & SPEED ADJUSTING BRACKET (ASSEM.)
(FOR USE WITH TRANSMITTER DISTRIBUTORS ONLY)

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

EE-622
Issue 1
April, 1948

CHANGES AND ADDITIONS TO PARTS BULLETINS

B-1014 (Issue 3)	B-1048 (Issue 2)	B-1088 (Issue 2)	B-1114 (Issue 1)
B-1015 (Issue 2)	B-1051 (Issue 1)	B-1094 (Issue 2)	B-1116 (Issue 1)
B-1019 (Mar. 1928)	B-1063 (Issue 2)	B-1095 (Issue 1)	B-1117 (Issue 2)
B-1028 (Issue 2)	B-1064 (Issue 2)	B-1100 (Issue 2)	B-1119 (Issue 1)
B-1030 (Issue 2)	B-1072 (Issue 2)	B-1101 (Issue 1)	B-1120 (Issue 1)
B-1031 (Issue 3)	B-1073 (Issue 1)	B-1104 (Issue 1)	B-1121 (Issue 1)
B-1035	B-1074 (Issue 2)	B-1105 (Issue 1)	B-1122 (Issue 2)
B-1036 (Issue 3)	B-1079 (Issue 2)	B-1107 (Issue 1)	B-1125 (Issue 1)
B-1037 (Issue 4)	B-1080 (Issue 1)	B-1109 (Issue 1)	B-1127 (Issue 1)
B-1041 (Issue 4)	B-1082 (Issue 2)	B-1110 (Issue 2)	

The 6314 contact spring (assem.), used on govenors shown in the above bulletins, has been redesigned to provide a smoother, flatter and thicker all-tungsten contact for greater service life. In the new design, which retains its original assembly number, the tungsten contact is welded directly to the contact spring, whereas in the old design the tungsten contact was welded to a screw (comprising the 72835 contact point) and then threaded into a tapped hole in the contact spring.

The 72835 contact point is no longer available: when it becomes necessary to replace this part a new style 6314 contact spring (assem.), which includes an 86868 bushing and an 86869 post, should be ordered.

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

EE-516
Issue 1
January, 1946

CHANGES AND ADDITIONS TO PARTS BULLETINS

1019	Issue 1	1064	Issue 2	1109	Issue 1
1028	Issue 2	1072	Issue 2	1110	Issue 2
1030	Issue 2	1080	Issue 1	1114	Issue 1
1031	Issue 3	1082	Issue 2	1116	Issue 1
1035	Issue 1	1088	Issue 2	1117	Issue 2
1036	Issue 3	1094	Issue 2	1119	Issue 1
1037	Issue 4	1095	Issue 1	1120	Issue 1
1041	Issue 4	1100	Issue 2	1122	Issue 2
1048	Issue 2	1101	Issue 1	1125	Issue 1
1051	Issue 1	1104	Issue 1	1127	Issue 1
1063	Issue 2	1105	Issue 1		

Reference is made in the above parts bulletins to the 77911 and 70873 brush holder caps. These two parts originally differed in that one (77911) had a tapped hole for a #6-32 screw to secure the filter lead, and the other (70873) did not. The 70873 has recently been changed to include the tapped hole, thus making the two parts identical. The 77911 brush holder cap has been cancelled and on orders for such part the 70873 brush holder cap will be furnished.

CHANGES AND ADDITIONS
BULLETIN NO. 1041 (ISSUE 4), 1095 (ISSUE 1) AND 1109 (ISSUE 1)
PARTS - TRANSMITTER-DISTRIBUTOR

On Transmitter-Distributors equipped with end-of-tape stop mechanism which were operated with spliced chadless tape, failures were encountered when the unit was equipped with the 97445 RETAINER LID (Figure 1) and the 97468 TAPE GUIDE PLATE (Figure 2).

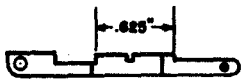
To remedy this condition, the 111628 RETAINER LID (Figure 3) was designed so that the portion of the lid which holds the tape in the guide plate was widened to fully cover the tape and the tape pin clearance hole was decreased in size to reduce the possibility of the tape catching in the hole.

The 111627 TAPE GUIDE PLATE (Figure 4) was designed so that a portion of the shoulder was removed to give clearance for the 111628 RETAINER LID and the diameter of the hole for the tape contact pin was increased to give clearance for adjustment. The top edges of the slot in the plate for the five sensing pins were beveled to eliminate the possibility of tape catching on the edges of the slot.

All new standard equipment will have the 111628 retainer lid and 111627 tape guide plate.

OPERABLE COMBINATIONS

1. The 97445 RETAINER LID and 97468 TAPE GUIDE PLATE can be used together but it is not recommended when spliced chadless tape is to be used.
2. The 111628 RETAINER LID and 111627 TAPE GUIDE PLATE can be used together for either regular, chadless or spliced chadless tape.
3. The 97445 RETAINER LID and 111627 TAPE GUIDE PLATE can be used together but it is not recommended when spliced chadless tape is to be used.
4. The 111628 RETAINER LID and 97468 TAPE GUIDE PLATE cannot be used together.



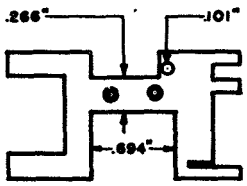
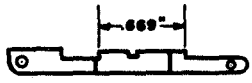


FIGURE 1



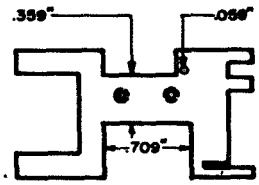


FIGURE 3

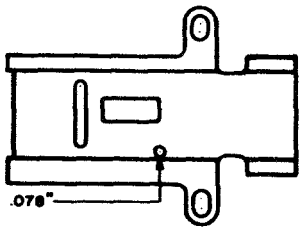


FIGURE 2

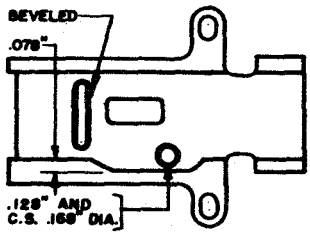


FIGURE 4

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:

Old Designation	New Designation	Description
M121	121M	Magnet
PK10718	10718PK	Carton
RM31571	31571RM	Wire
121	121B	Bulletin
EE121	121EE	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 numberically 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.

*Indicates change
**Indicates addition

OLD TO NEW NUMBER CONVERSION LIST

Old No.	New No.	Description
4-8	74879	Stud
23-8	125105	Terminal
33-1	1157	Screw
33-2	125108	Screw
33-3	1158	Screw
33-4	1263	Screw
33-5	1159	Screw
33-6	1160	Screw
33-7	1161	Screw
33-8	125109	Screw
33-9	125110	Screw
33-10	1162	Screw
33-11	1163	Screw
33-12	125111	Screw
33-13	5740	Screw
33-14	1164	Screw
33-15	125112	Screw
33-16	1165	Screw
33-17	1166	Screw
33-18	125113	Screw
33-21	112620	Screw
33-22	125114	Screw
33-29	125116	Screw
33-32	125117	Screw
33-35	1168	Screw
33-37	1169	Screw
33-38	125119	Screw
33-39	1222	Screw
33-41	125120	Screw
33-43	125122	Screw
33-49	1170	Screw
33-50	125124	Screw
33-53	1171	Screw
33-54	1172	Screw
33-57	125126	Screw
33-58	125127	Screw
33-63	125130	Screw
33-64	1173	Screw
33-65	125131	Screw
33-69	1223	Screw
33-70	125132	Screw
33-85	125138	Screw
33-86	125139	Screw
33-89	125141	Screw
33-98	125142	Screw
33-101	125143	Screw
33-110	110434	Screw
33-111	49054	Screw
33-114	125146	Screw
33-130	125149	Screw
33-132	125001	Screw
33-153	125154	Screw
33-156	1162	Screw
33-157	1174	Screw
33-158	125155	Screw
33-163	125157	Screw
33-168	125159	Screw
33-170	112621	Screw
33-179	125002	Screw
33-180	125162	Screw
33-185	125163	Screw
33-193	125164	Screw
33-194	125165	Screw
33-195	1176	Screw
33-197	125167	Screw
33-198	125168	Screw
33-206	125003	Screw
33-207	125170	Screw
33-208	125171	Screw
33-213	125176	Screw
33-224	125178	Screw
33-225	125179	Screw
33-227	125180	Screw
33-234	1177	Screw
33-238	1179	Screw
33-240	86850	Screw
33-252	125189	Screw
33-253	125190	Screw
33-254	125191	Screw
33-255	125192	Screw
33-257	125193	Screw
33-270	87636	Screw
33-271	125195	Screw
33-276	125197	Screw
33-278	125199	Screw
33-280	125005	Screw
33-282	125200	Screw
33-283	125201	Screw
33-296	125205	Screw
33-333	125006	Screw
33-334	112622	Screw
33-335	112623	Screw
33-336	125206	Screw
33-337	112624	Screw
33-341	125209	Screw
33-344	125211	Screw
33-346	125212	Screw
33-348	125213	Screw
33-350	125215	Screw
33-360	1181	Screw
33-362	125217	Screw
34-1	125218	Nut
34-2	3595	Nut
34-4	112626	Nut
34-5	5475	Nut
34-6	3597	Nut
34-7	70073	Nut
34-8	3598	Nut
34-9	3599	Nut
34-10	125220	Nut
34-11	112627	Nut
*34-12	55257	Nut
34-13	125221	Nut
34-14	5815	Nut
34-16	125222	Nut
34-19	125223	Nut
34-24	125224	Nut
34-25	3600	Nut
34-27	125225	Nut
34-28	3602	Nut
34-29	3603	Nut
34-39	125227	Nut
34-41	125228	Nut
34-48	125229	Nut
34-50	3604	Nut
*34-51	1036	Nut
34-55	3606	Nut
34-56	110435	Nut
34-58	125231	Nut
34-59	125009	Nut
34-61	125233	Nut
34-64	112628	Nut
34-66	125235	Nut
35-1	112629	Spring
35-2	112630	Spring
35-8	112631	Spring
35-13	125236	Spring
35-24	125239	Spring
35-27	125241	Spring
35-28	125242	Spring
35-33	112632	Spring
35-34	125243	Spring
35-40	125244	Spring
35-42	110436	Spring
35-47	125246	Spring
35-52	4702	Spring
35-53	125248	Spring
35-54	112633	Spring
35-58	3608	Spring
35-68	125250	Spring
35-69	125251	Spring
35-70	110437	Spring
35-71	125252	Spring
35-72	125253	Spring
35-78	125254	Spring
35-80	125255	Spring
35-85	125257	Spring
35-86	4703	Spring
35-87	4708	Spring
35-88	110438	Spring
35-89	112634	Spring
35-99	125258	Spring
35-116	125262	Spring
35-126	3610	Spring
35-132	125267	Spring
35-133	125268	Spring
35-134	4705	Spring
35-137	112635	Spring
*35-140	112636	Spring
36-24	125272	Pin
36-28	125273	Pin
36-39	125276	Pin
36-45	125277	Pin
36-51	125278	Pin
36-56	3614	Pin
36-73	125280	Pin
36-80	125281	Pin
36-110	125288	Pin
36-114	125290	Pin
36-120	125269	Pin
*36-131	125092	Dowel
36-132	125292	Pin
36-137	3614	Pin
36-147	125296	Pin
36-150	125297	Pin
36-153	110440	Pin
36-164	125300	Pin
43-10	125306	Stop
*43-12	71047	Washer
46-3	125307	Washer
61-7	3618	Insulator
61-10	125314	Screw
61-24	125010	Washer
61-25	125317	Insulator
100-74	5816	Washer
100-75	3620	Washer
100-80	125328	Bushing
100-84	125330	Screw
100-85	3621	Terminal
100-96	110441	Shim
100-108	3624	Washer
100-112	125339	Terminal
100-120	125341	Bushing
103-27	125011	Washer
112-7	125373	Screw
122-5	125379	Post
122-11	125380	Chute
122-12	125381	Stud
122-18	125382	Cable
S-122-19	125383	Bracket
S-122-20	125384	Bracket
S-122-21	125385	Bracket

*Indicates change

Old No.	New No.	Description
S-122-22	125386	Bracket
S-122-23	125387	Bracket
S-122-24	125388	Bracket
122-25	125389	Bracket
122-26	125390	Washer
122-27	125391	Shaft
122-28	125392	Stop
122-29	125393	Pin
122-35	125394	Plate
122-36	125395	Pin
S-122-37	125396	Guide
S-122-38	125397	Bar
S-122-39	3625	Shaft
S-122-40	125398	Bracket
122-42	125400	Gear
122-43	125401	Gear
122-46	125402	Post
122-48	125012	Socket
122-49	125403	Fitting
122-50	125404	Lamp
122-51	125405	Bell Crank
122-52	125406	Bell Crank
122-53	125407	Bell Crank
122-54	125408	Bell Crank
122-55	125409	Bell Crank
122-56	125410	Bushing
122-57	125411	Bushing
122-58	125412	Stud
122-60	125413	Ratchet
122-61	125414	Post
122-62	125415	Pin
122-63	125416	Post
122-65	125417	Stud
122-67	125418	Post
122-68	3626	Foot
S-122-69	125419	Stop
122-84	125421	Pin
122-86	125422	Pin
122-88	125423	Solenoid Assem.
122-89	125424	Bracket
122-94	125425	Terminal Brd.
122-95	125426	Insulator
122-97	125427	Bushing
122-100	125428	Plate
122-101	125429	Head
122-102	125430	Post
122-106	125431	Bracket Assem.
122-107	125433	Bracket
122-108	125434	Bushing
122-113	9575	Screw
122-116	125438	Lever Assem.
122-117	125439	Lever
122-118	125440	Terminal
122-119	125441	Contact Assem.
122-121	125443	Contact
122-124	125444	Spring
122-126	125445	Insulator
122-127	125446	Stud
122-128	125447	Bracket Assem.
122-129	125448	Bracket
S-122-130	125449	Lever Assem.
122-133	125450	Post
S-122-134	125451	Bell Crank
122-135	125452	Washer
S-122-136	125453	Bracket
122-137	125454	Gear Assem.
122-140	125456	Stud
122-143	125457	Connector
122-146	125458	Bearing
122-147	125459	Bushing
122-194	125463	Disk
122-195	125464	Disk
122-196	125465	Bezel
S-122-234	3627	Bar
122-242	125467	Lever Assem.
122-244	125468	Post
122-245	125469	Pawl
122-246	125470	Post
122-247	125471	Disk Assem.
122-249	125472	Stud
122-259	125479	Disk
122-275	125481	Bracket
122-276	125013	Plate
122-350	125487	Tape Reel
122-357	125488	Spacer
122-359	125490	Ratchet
122-364	125492	Bracket
122-365	125493	Punch Pin
122-366	125494	Punch Pin
122-369	125495	Guide Plate
122-374	125499	Punch Bar
122-375	125500	Punch Bar
122-376	125501	Punch Bar
122-377	125502	Punch Bar
122-378	125503	Punch Bar
122-380	125504	Lever
122-381	125505	Contact
122-382	125506	Bail
122-383	125507	Key Lever
122-384	112640	Die Block
122-386	125508	Bail Assem.
122-389	125511	Pawl Assem.
122-390	125512	Contact Assem.
122-396	125514	Hammer Assem.
122-431	125548	Paper Keytop
122-432	125549	Paper Keytop
122-433	125550	Paper Keytop
122-434	125551	Paper Keytop
122-435	125552	Paper Keytop
122-438	125555	Head
122-451	125560	Lever Assem.
122-452	125561	Lever Assem.
122-453	125562	Cable Assem.
122-454	125563	Cable
122-459	125565	Paper Keytop
122-460	125566	Paper Keytop
122-461	125567	Paper Keytop
122-462	125568	Paper Keytop
122-463	125569	Paper Keytop
122-464	125570	Paper Keytop
122-465	125571	Paper Keytop
122-466	125572	Paper Keytop
122-467	125573	Paper Keytop
122-468	125574	Paper Keytop
122-469	125575	Paper Keytop
122-470	125576	Paper Keytop
122-471	125577	Paper Keytop
122-472	125578	Paper Keytop
122-473	125579	Paper Keytop
122-474	125580	Paper Keytop
122-475	125581	Paper Keytop
122-476	125582	Paper Keytop
122-477	125583	Paper Keytop
122-478	125584	Paper Keytop
122-479	125585	Paper Keytop
122-480	125586	Paper Keytop
122-481	125587	Paper Keytop
122-482	125588	Paper Keytop
122-483	125589	Paper Keytop
122-484	125590	Paper Keytop
122-511	125594	Guide Assem.
122-528	125596	Key Lever Assem.
122-529	125597	Key Lever Assem.
122-530	125598	Key Lever Assem.
122-531	125599	Key Lever Assem.
122-532	125600	Key Lever Assem.
122-533	125601	Key Lever Assem.
122-534	125602	Key Lever Assem.
122-535	125603	Key Lever Assem.
122-536	125604	Key Lever Assem.
122-537	125605	Key Lever Assem.
122-538	125606	Key Lever Assem.
122-539	125607	Key Lever Assem.
122-540	125608	Key Lever Assem.
122-541	125609	Key Lever Assem.
122-542	125610	Key Lever Assem.
122-543	125611	Key Lever Assem.
122-544	125612	Key Lever Assem.
122-545	125613	Key Lever Assem.
122-546	125614	Key Lever Assem.
122-547	125615	Key Lever Assem.
122-548	125616	Key Lever Assem.
122-549	125617	Key Lever Assem.
122-550	125618	Key Lever Assem.
122-551	125619	Key Lever Assem.
122-552	125620	Key Lever Assem.
122-553	125621	Key Lever Assem.
122-554	125622	Key Lever Assem.
122-555	125623	Key Lever Assem.
122-556	125624	Key Lever Assem.
122-557	125198	Key Lever Assem.
122-558	125625	Key Lever Assem.
122-559	125626	Key Lever Assem.
122-567	125631	Hammer Assem.
122-571	125633	Guide Plate
122-575	111019	Block
122-576	125636	Plate Assem.
122-577	125637	Ratchet Assem.
122-580	125638	Paper Keytop
122-581	125639	Paper Keytop
122-582	125640	Paper Keytop
122-586	125642	Bracket Assem.
122-589	125643	Washer
122-592	125645	Guide
122-593	125646	Plate
122-594	125647	Plate
122-596	125648	Key Lever
122-597	125649	Key Lever
122-598	125650	Key Lever
122-599	125651	Key Lever
122-600	125652	Key Lever
122-601	125653	Key Lever
122-602	125654	Key Lever
122-603	125655	Key Lever
122-604	125656	Key Lever
122-605	125657	Key Lever
122-606	125658	Key Lever
122-607	125659	Key Lever
122-608	125660	Key Lever
122-609	125661	Key Lever
122-610	125662	Key Lever
122-611	125663	Key Lever
122-612	125664	Key Lever
122-613	125665	Key Lever
122-614	125666	Key Lever
122-615	125667	Key Lever
122-616	125668	Key Lever
122-617	125669	Key Lever
122-618	125670	Key Lever
122-619	125671	Key Lever

Old No.	New No.	Description
122-620	125672	Key Lever
122-621	125673	Key Lever
122-622	125674	Key Lever
122-623	125675	Key Lever
122-624	125676	Key Lever
122-625	125677	Key Lever
122-626	125678	Key Lever
122-697	125683	Bushing
122-698	125684	Lever Assem.
122-699	125685	Stud
122-700	125686	Lever Assem.
122-702	125687	Bushing
122-703	125688	Bracket Assem.
122-704	125689	Paper Keytop
122-705	125690	Paper Keytop
122-706	125691	Paper Keytop
122-707	125692	Paper Keytop
122-708	125693	Paper Keytop
122-709	125694	Paper Keytop
122-710	125695	Paper Keytop
123-7	3628	Bushing
123-8	71444	Bushing
123-36	3630	Bushing
123-37	125696	Post
123-164	3633	Bushing
123-165	3634	Bushing
123-166	3635	Washer
123-167	3636	Washer
123-244	125015	Washer
123-308	125703	Terminal
125-9	3638	Condenser
125-176	125716	Switch Box
125-197	125097	Nipple
125-198	125098	Nut
125-208	125719	Nipple
125-209	125720	Nut
125-237	125723	Fuse
125-238	125724	Fuse
126-123	125016	Grommet
138-22	110442	Screw Driver
138-23	125752	Wrench
138-25	125754	Wrench
138-26	125755	Wrench
138-27	125756	Wrench
138-28	125757	Wrench
138-30	125758	File
138-33	125760	Wrench
138-34	125761	Wrench
138-36	125763	Wrench
138-43	126242	Gauge
138-44	126243	Gauge
138-55	110443	Scale
138-58	110444	Scale
138-100	88993	Burnisher
138-125	126245	Gauge
138-126	126246	Gauge
138-127	125775	Wrench
138-128	125776	Wrench
138-129	125777	Wrench
138-137	110445	Tool
138-139	125783	Stone
200-20	3639	Washer
200-153	3640	Washer
200-214	125789	Shim
200-1032	3646	Washer
200-1134	125793	Pin
200-1139	3647	Insulator
200-1177	126251	Insulator
200-1348	125802	Washer
200-2212	3649	Washer
300-106	125814	Guide
300-107	125815	Contact Assem.
300-108	125816	Mounting Bar
300-109	125817	Mounting Bar
300-110	125818	Insulator
300-113	125820	Disk
300-121	125828	Shaft
300-128	125829	Lever
300-137	125833	Lever Guide
300-152	125844	Adj. Lever
300-170	125848	Cont. Lever
300-171	125849	Cont. Lever
300-172	125850	Cont. Lever
300-173	125851	Cont. Lever
300-174	125852	Cont. Lever
300-178	125855	Terminal
300-179	125856	Terminal Block
300-181	125858	Feed Pawl
300-201	125860	End Bracket
300-301	5556	Top Plate
300-302	125861	Feed Wheel
*300-303	125862	Bearing
300-312	125867	Bracket
300-314	125868	Detent Assem.
300-319	125871	Bracket
300-320	125872	Shaft
300-322	125873	Latch
300-400	125874	End Bracket
300-506	4707	Washer
300-510	125882	Terminal
400-3	125903	Brush
400-218	125914	Terminal
500-205	125935	Spring
700-55	125947	Screw
700-59	125948	Screw
700-71	3650	Washer
W-1238	126234	Pin
* 55083-1	126096	"T" Bar
* 55083-2	126097	"T" Bar
* 55083-3	126098	"T" Bar
* 55083-4	126099	"T" Bar
* 55083-5	126100	"T" Bar
* 55083-6	126101	"T" Bar
* 55083-7	126102	"T" Bar
* 55083-8	126103	"T" Bar
* 55083-9	126104	"T" Bar
* 55083-10	126105	"T" Bar
* 55083-11	126106	"T" Bar
* 55083-12	126107	"T" Bar
* 55083-13	126108	"T" Bar
* 55083-14	126109	"T" Bar
* 55083-15	126110	"T" Bar
* 55083-16	126111	"T" Bar
* 55083-17	126112	"T" Bar
* 55083-18	126113	"T" Bar
* 55083-20	126114	"T" Bar
* 55083-21	126115	"T" Bar
55084-A2	126156	Bar
55084-A4	126157	Bar
55084-A6	126158	Bar
55084-A8	126159	Bar
55084-A10	126160	Bar
55084-A12	126161	Bar
55084-A14	126162	Bar
55084-A16	126163	Bar
55084-A18	126164	Bar
55084-A20	126165	Bar
55084-B1	126166	Bar
55084-B3	126167	Bar
55084-B5	126168	Bar
55084-B7	126169	Bar
55084-B9	126170	Bar
55084-B11	126171	Bar
55084-B13	126172	Bar
55084-B15	126173	Bar
55084-B17	126174	Bar

*Indicates change

NEW TO OLD NUMBER CONVERSION LIST

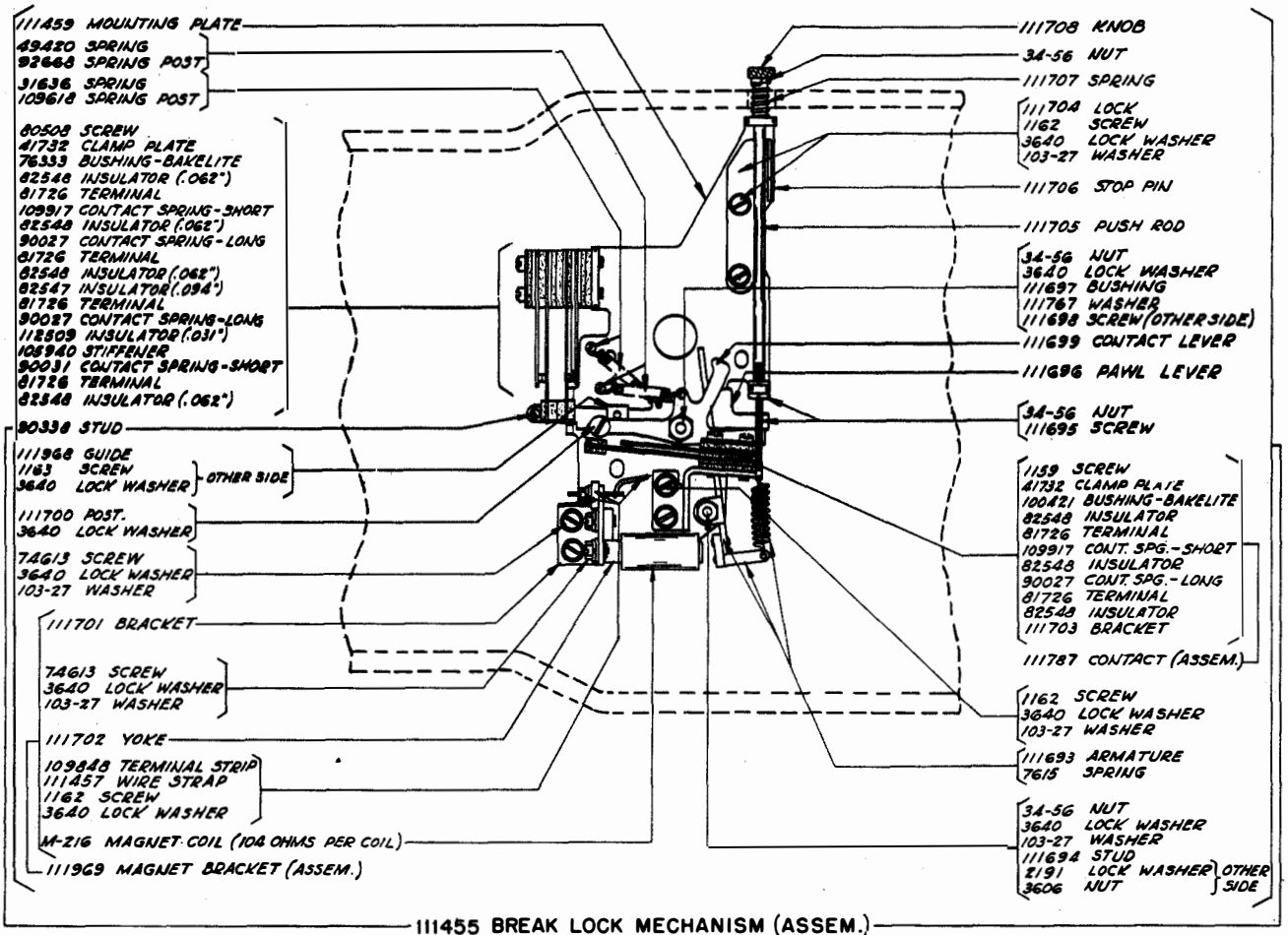
New No.	Old No.
*1036	34-51
1157	33-1
1158	33-3
1159	33-5
1160	33-6
1161	33-7
1162	(33-10
	(33-156
1163	33-11
1164	33-14
1165	33-16
1166	33-17
1168	33-35
1169	33-37
1170	33-49
1171	33-53
1172	33-54
1173	33-64
1174	33-157
1176	33-195
1177	33-234
1179	33-238
1181	33-360
1222	33-39
1223	33-69
1263	33-4
3595	34-2
3597	34-6
3598	34-8
3599	34-9
3600	34-25
3602	34-28
3603	34-29
3604	34-50
3606	34-55
3608	35-58
3610	35-126
3614	(36-56
	(36-137
3618	61-7
3620	100-75
3621	100-85
3624	100-108
3625	S-122-39
3626	122-68
3627	S-122-234
3628	123-7
3630	123-36
3633	123-164
3634	123-165
3635	123-166
3636	123-167
3638	125-9
3639	200-20
3640	200-153
3646	200-1032
3647	200-1139
3649	200-2212
3650	700-71
4702	35-52
4703	35-86
4705	35-134
4707	300-506
4708	35-87
5475	34-5
5556	300-301
5740	33-13
5815	34-14
5816	100-74
9575	122-113
49054	33-111
*55257	34-12
70073	34-7
*71047	43-12
71444	123-8
74879	4-8
86850	33-240
87636	33-270
88993	138-100
110434	33-110
110435	34-56
110436	35-42
110437	35-70
110438	35-88
110440	36-153
110441	100-96
110442	138-22
110443	138-55
110444	138-58
110445	138-137
111019	122-575
112620	33-21
112621	33-170
112622	33-334
112623	33-335
112624	33-337
112626	34-4
112627	34-11
112628	34-64
112629	35-1
112630	35-2
112631	35-8
112632	35-33
112633	35-54
112634	35-89
112635	35-137
*112636	35-140
112640	122-384
125001	33-132
125002	33-179
125003	33-206
125005	33-280
125006	33-333
125009	34-59
125010	61-24
125011	103-27
125012	122-48
125013	122-276
125015	123-244
125016	126-123
*125092	36-131
125097	125-197
125098	125-198
125105	23-8
125108	33-2
125109	33-8
125110	33-9
125111	33-12
125112	33-15
125113	33-18
125114	33-22
125116	33-29
125117	33-32
125119	33-38
125120	33-41
125122	33-43
125124	33-50
125126	33-57
125127	33-58
125130	33-63
125131	33-65
125132	33-70
125138	33-85
125139	33-86
125141	33-89
125142	33-98
125143	33-101
125146	33-114
125149	33-130
125154	33-153
125155	33-158
125157	33-163
125159	33-168
125162	33-180
125163	33-185
125164	33-193
125165	33-194
125167	33-197
125168	33-198
125170	33-207
125171	33-208
125176	33-213
125178	33-224
125179	33-225
125180	33-227
125189	33-252
125190	33-253
125191	33-254
125192	33-255
125193	33-257
125195	33-271
125197	33-276
125198	122-557
125199	33-278
125200	33-282
125201	33-283
125205	33-296
125206	33-336
125209	33-341
125211	33-344
125212	33-346
125213	33-348
125215	33-350
125217	33-362
125218	34-1
125220	34-10
125221	34-13
125222	34-16
125223	34-19
125224	34-24
125225	34-27
125227	34-39
125228	34-41
125229	34-48
125231	34-58
125233	34-61
125235	34-66
125236	35-13
125239	35-24
125241	35-27
125242	35-28
125243	35-34
125244	35-40
125246	35-47
125248	35-53
125250	35-68
125251	35-69
125252	35-71
125253	35-72
125254	35-78
125255	35-80
125257	35-85
125258	35-99
125262	35-116
125267	35-132
125268	35-133
125269	36-120
125272	36-24
125273	36-28
125276	36-39
125277	36-45
125278	36-51
125280	36-73
125281	36-80
125288	36-110
125290	36-114
125292	36-132
125296	36-147
125297	36-150
125300	36-164
125306	43-10
125307	46-3
125314	61-10
125317	61-25
125328	100-80
125330	100-84
125339	100-112
125341	100-120
125373	112-7
125379	122-5
125380	122-11
125381	122-12
125382	122-18
125383	S-122-19
125384	S-122-20
125385	S-122-21
125386	S-122-22
125387	S-122-23
125388	S-122-24
125389	122-25
125390	122-26
125391	122-27
125392	122-28
125393	122-29
125394	122-35
125395	122-36
125396	S-122-37
125397	S-122-38
125398	S-122-40
125400	122-42
125401	122-43
125402	122-46
125403	122-49
125404	122-50
125405	122-51
125406	122-52
125407	122-53
125408	122-54
125409	122-55
125410	122-56
125411	122-57
125412	122-58
125413	122-60
125414	122-61
125415	122-62
125416	122-63
125417	122-65
125418	122-67
125419	S-122-69
125421	122-84
125422	122-86
125423	122-88

*Indicates change

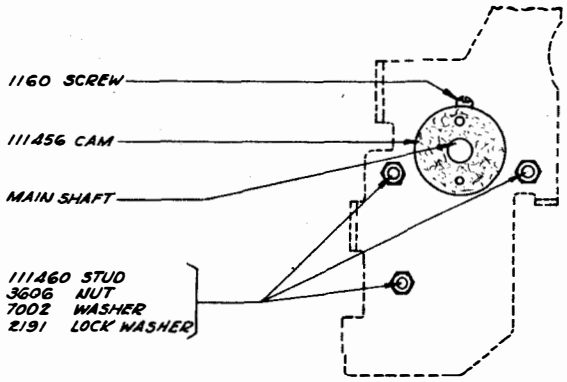
New No.	Old No.
125424	122-89
125425	122-94
125426	122-95
125427	122-97
125428	122-100
125429	122-101
125430	122-102
125431	122-106
125433	122-107
125434	122-108
125438	122-116
125439	122-117
125440	122-118
125441	122-119
125443	122-121
125444	122-124
125445	122-126
125446	122-127
125447	122-128
125448	122-129
125449	S-122-130
125450	122-133
125451	S-122-134
125452	122-135
125453	S-122-136
125454	122-137
125456	122-140
125457	122-143
125458	122-146
125459	122-147
125463	122-194
125464	122-195
125465	122-196
125467	122-242
125468	122-244
125469	122-245
125470	122-246
125471	122-247
125472	122-249
125479	122-259
125481	122-275
125487	122-350
125488	122-357
125490	122-359
125492	122-364
125493	122-365
125494	122-366
125495	122-369
125499	122-374
125500	122-375
125501	122-376
125502	122-377
125503	122-378
125504	122-380
125505	122-381
125506	122-382
125507	122-383
125508	122-386
125511	122-389
125512	122-390
125514	122-396
125548	122-431
125549	122-432
125550	122-433
125551	122-434
125552	122-435
125555	122-438
125560	122-451
125561	122-452
125562	122-453
125563	122-454
125565	122-459
125566	122-460
125567	122-461
125568	122-462
125569	122-463
125570	122-464
125571	122-465
125572	122-466
125573	122-467
125574	122-468
125575	122-469
125576	122-470
125577	122-471
125578	122-472
125579	122-473
125580	122-474
125581	122-475
125582	122-476
125583	122-477
125584	122-478
125585	122-479
125586	122-480
125587	122-481
125588	122-482
125589	122-483
125590	122-484
125594	122-511
125596	122-528
125597	122-529
125598	122-530
125599	122-531
125600	122-532
125601	122-533
125602	122-534
125603	122-535
125604	122-536
125605	122-537
125606	122-538
125607	122-539
125608	122-540
125609	122-541
125610	122-542
125611	122-543
125612	122-544
125613	122-545
125614	122-546
125615	122-547
125616	122-548
125617	122-549
125618	122-550
125619	122-551
125620	122-552
125621	122-553
125622	122-554
125623	122-555
125624	122-556
125625	122-558
125626	122-559
125631	122-567
125633	122-571
125636	122-576
125637	122-577
125638	122-580
125639	122-581
125640	122-582
125642	122-586
125643	122-589
125645	122-592
125646	122-593
125647	122-594
125648	122-596
125649	122-597
125650	122-598
125651	122-599
125652	122-600
125653	122-601
125654	122-602
125655	122-603
125656	122-604
125657	122-605
125658	122-606
125659	122-607
125660	122-608
125661	122-609
125662	122-610
125663	122-611
125664	122-612
125665	122-613
125666	122-614
125667	122-615
125668	122-616
125669	122-617
125670	122-618
125671	122-619
125672	122-620
125673	122-621
125674	122-622
125675	122-623
125676	122-624
125677	122-625
125678	122-626
125683	122-697
125684	122-698
125685	122-699
125686	122-700
125687	122-702
125688	122-703
125689	122-704
125690	122-705
125691	122-706
125692	122-707
125693	122-708
125694	122-709
125695	122-710
125696	123-37
125703	123-308
125716	125-176
125719	125-208
125720	125-209
125723	125-237
125724	125-238
125752	138-23
125754	138-25
125755	138-26
125756	138-27
125757	138-28
125758	138-30
125760	138-33
125761	138-34
125763	138-36
125775	138-127
125776	138-128
125777	138-129
125783	138-139
125789	200-214
125793	200-1134
125802	200-1348
125814	300-106
125815	300-107
125816	300-108
125817	300-109
125818	300-110
125820	300-113
125828	300-121
125829	300-128
125833	300-137
125844	300-152
125848	300-170
125849	300-171
125850	300-172
125851	300-173
125852	300-174
125855	300-178
125856	300-179
125858	300-181
125860	300-201
125861	300-302
125862	300-303
125867	300-312
125868	300-314
125871	300-319
125872	300-320
125873	300-322
125874	300-400
125882	300-510
125903	400-3
125914	400-218
125935	500-205
125947	700-55
125948	700-59
126096	55083-1
126097	55083-2
126098	55083-3
126099	55083-4
126100	55083-5
126101	55083-6
126102	55083-7
126103	55083-8
126104	55083-9
126105	55083-10
126106	55083-11
126107	55083-12
126108	55083-13
126109	55083-14
126110	55083-15
126111	55083-16
126112	55083-17
126113	55083-18
126114	55083-20
126115	55083-21
126156	55084-A2
126157	55084-A4
126158	55084-A6
126159	55084-A8
126160	55084-A10
126161	55084-A12
126162	55084-A14
126163	55084-A16
126164	55084-A18
126165	55084-A20
126166	55084-B1
126167	55084-B3
126168	55084-B5
126169	55084-B7
126170	55084-B9
126171	55084-B11
126172	55084-B13
126173	55084-B15
126174	55084-B17
126234	W-1238
126242	138-43
126243	138-44
126245	138-125
126246	138-126
126251	200-1177

CHANGES AND ADDITIONS
BULLETIN NO. 1041, ISSUE 4; 1095, ISSUE 1; 1109, ISSUE 1; AND 1117, ISSUE 2.
PARTS – TRANSMITTER DISTRIBUTOR

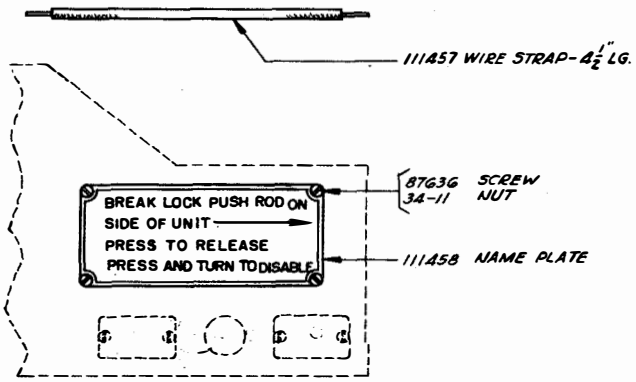
THIS CORRECTION SHEET COVERS PARTS ORDERING INFORMATION FOR THE 111453 SET OF PARTS WHICH IS INCLUDED IN THE XD99 TRANSMITTER DISTRIBUTOR AND MAY BE ADDED TO OTHER MODEL 14 TRANSMITTER DISTRIBUTORS TO PROVIDE THE "BREAK LOCK" FEATURE.



111455 BREAK LOCK MECHANISM (ASSEM.)
(BOTTOM VIEW)



BOTTOM VIEW
OF 111459 MOUNTING PLATE



PARTIAL FRONT VIEW
OF SNAP PANEL

111453 BREAK LOCK MECHANISM SET OF PARTS
(INCLUDES ALL PARTS LISTED ON THIS PAGE)

A. C. GOVERNED MOTORS

REVISIONS		
M	7-11-47	42586
N	8-22-47	42696
O	6-16-48	44780
P	2-4-49	46648
Q	3-18-49	46967
R	4-21-49	47289
S	10-6-49	48324
T	12-15-49	48728
U	1-13-50	48851
V	2-6-50	48983
W	3-4-50	49169
X	5-29-50	49624

103559 MOTOR UNIT 1800 R.P.M.

(----103083 CABLE)

SYNCHRONOUS MOTOR.

ARRGT. AJ, BX, DJ, HY, GV, HJ, HP, KH

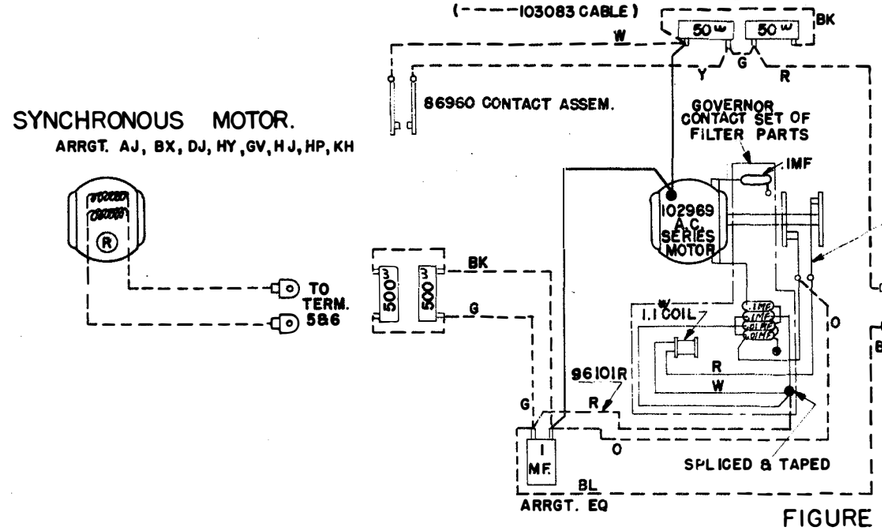
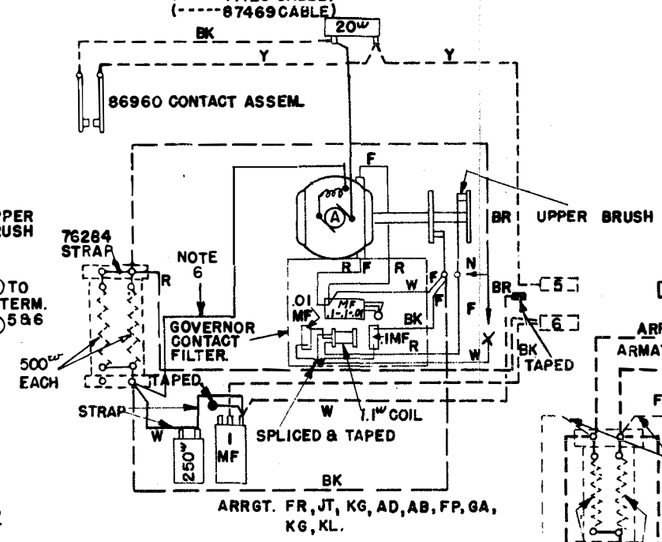


FIGURE 2

(2102 R.P.M.)

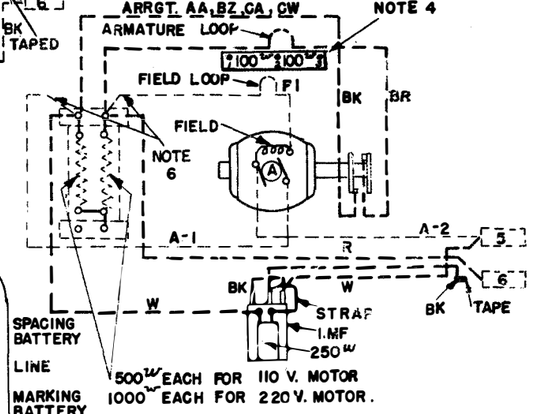
(— — 77126 CABLE)

(----87469 CABLE)



D.C. GOVERNED MOTOR (---- 77126 CABLE)

ARRGT. AA, BZ, GA, GW



LOCATION OF 86960 CONTACT ASSEM. OPERATED BY ARMATURE EXTENSION ARM

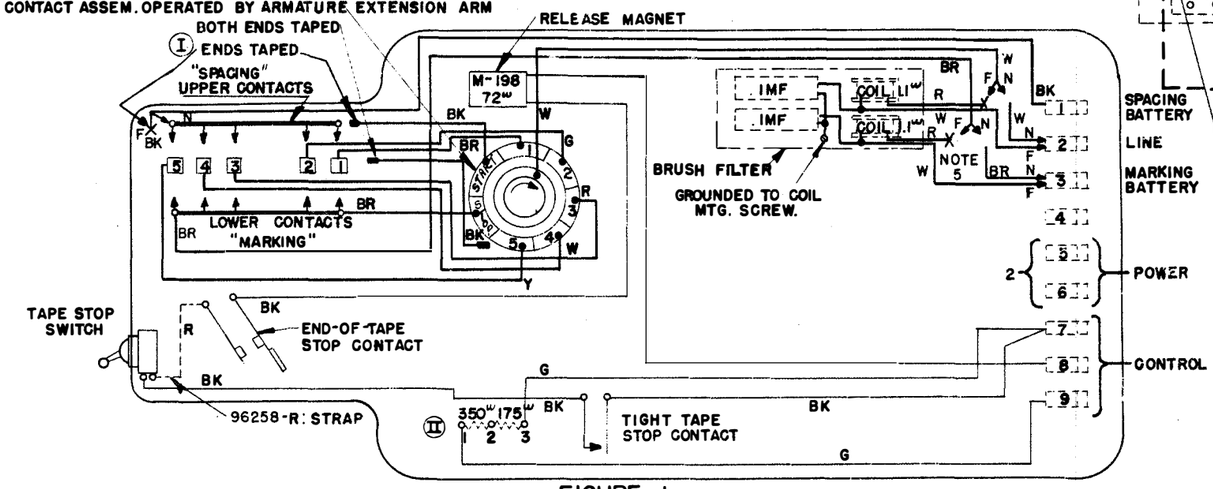


FIGURE 1

NOTES:

(5) —X DENOTES: SPLICE & TAPE.
F DENOTES: WIRING TO BE USED WHEN RADIO INTERFERENCE SUPPRESSION FILTERS ARE SUPPLIED.
N DENOTE: WIRING TO BE USED WHEN RADIO INTERFERENCE SUPPRESSION FILTERS ARE NOT SUPPLIED.
6 COVER MOTOR LEADS AT RESISTOR TERMINALS WITH APPROX. 2 IN. RM. 60280 TUBING.

UNITS SHOWN DOTTED ARE UNDERNEATH BASE.
----THIN LINES INDICATE WIRES NOT IN CABLE.
(1) CONNECT LEADS WHEN POLAR SIGNALS ARE USED
(2) WHEN SHIPPED, THE RELEASE MAGNET IS WIRED FOR 110 V. D.C. OPERATION OF MAGNET (WITHOUT STRAP) WHEN RELEASE MAGNET IS OPERATED ON 110 V. A.C. 50 OR 60 CYCLES RESISTOR TERMINALS 1 & 2 SHOULD BE STRAPPED. WHEN OPERATED ON 25 CYCLES, RESISTOR TERMINALS 2 & 3 SHOULD BE STRAPPED.
(3) UNNUMBERED STRAPS ARE RM 39522 WIRE AND RM 60019 TUBING.
(4) IF MOTOR FAILS TO REACH DESIRED SPEED WITH GOVERNOR ADJUSTED, INSERT 50ω, 100ω, OR 200ω IN FIELD LOOP. IF VOLTAGE IS EXCESSIVE, INSERT 50ω IN ARMATURE CIRCUIT BY SUBSTITUTING ARMATURE LOOP FOR FIELD LOOP. (FOR 50ω, STRAP 1 & 3 AND CONNECT TO 1 & 2 OR 2 & 3)

ASSOCIATED CABLES
—— 77136
—— 77135

WIRE COLOR CODE	
CODE	SOLID COLOR OR TRACER IN WHITE WIRE
G	GREEN
R	RED
W	WHITE
Y	YELLOW
BR	BROWN
BK	BLACK
O	ORANGE
BL	BLUE

TELETYPE CORPORATION.

WD-2084- X

FILE: 18-AAA47

WIRING DIAGRAM TRANSMITTER DISTRIBUTORS

XD 71, 76, 86, 94, 106 200, 201, 205, 209

MOTOR ARRGTS:— AD, HJ, HP, AA, AB, AJ, BX, BZ, CA, CW, DJ EQ, FP, FR, GA, GV, HY, JT, KG, KH, KL,

DRAWN Larson
TRACED G. J. G.
CHECKED
ENG'R'D.
APPRVD. E.S.L. J.J.F.

LUBRICATION SUPPLIES AND DIRECTIONS FOR USE

The following lubricants have been standardized for use on all types of Teletype apparatus:

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 bearings. 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 oiler 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.

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:

Old Designation	New Designation	Description
M121	121M	Magnet
PK10718	10718PK	Carton
RM31571	31571RM	Wire
121	121B	Bulletin
EE121	121EE	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 numberically 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.

*Indicates change
**Indicates addition

OLD TO NEW NUMBER CONVERSION LIST

Old No.	New No.	Description
4-8	74879	Stud
23-8	125105	Terminal
33-1	1157	Screw
33-2	125108	Screw
33-3	1158	Screw
33-4	1263	Screw
33-5	1159	Screw
33-6	1160	Screw
33-7	1161	Screw
33-8	125109	Screw
33-9	125110	Screw
33-10	1162	Screw
33-11	1163	Screw
33-12	125111	Screw
33-13	5740	Screw
33-14	1164	Screw
33-15	125112	Screw
33-16	1165	Screw
33-17	1166	Screw
33-18	125113	Screw
33-21	112620	Screw
33-22	125114	Screw
33-29	125116	Screw
33-32	125117	Screw
33-35	1168	Screw
33-37	1169	Screw
33-38	125119	Screw
33-39	1222	Screw
33-41	125120	Screw
33-43	125122	Screw
33-49	1170	Screw
33-50	125124	Screw
33-53	1171	Screw
33-54	1172	Screw
33-57	125126	Screw
33-58	125127	Screw
33-63	125130	Screw
33-64	1173	Screw
33-65	125131	Screw
33-69	1223	Screw
33-70	125132	Screw
33-85	125138	Screw
33-86	125139	Screw
33-89	125141	Screw
33-98	125142	Screw
33-101	125143	Screw
33-110	110434	Screw
33-111	49054	Screw
33-114	125146	Screw
33-130	125149	Screw
33-132	125001	Screw
33-153	125154	Screw
33-156	1162	Screw
33-157	1174	Screw
33-158	125155	Screw
33-163	125157	Screw
33-168	125159	Screw
33-170	112621	Screw
33-179	125002	Screw
33-180	125162	Screw
33-185	125163	Screw
33-193	125164	Screw
33-194	125165	Screw
33-195	1176	Screw
33-197	125167	Screw
33-198	125168	Screw
33-206	125003	Screw
33-207	125170	Screw
33-208	125171	Screw
33-213	125176	Screw
33-224	125178	Screw
33-225	125179	Screw
33-227	125180	Screw
33-234	1177	Screw
33-238	1179	Screw
33-240	86850	Screw
33-252	125189	Screw
33-253	125190	Screw
33-254	125191	Screw
33-255	125192	Screw
33-257	125193	Screw
33-270	87636	Screw
33-271	125195	Screw
33-276	125197	Screw
33-278	125199	Screw
33-280	125005	Screw
33-282	125200	Screw
33-283	125201	Screw
33-296	125205	Screw
33-333	125006	Screw
33-334	112622	Screw
33-335	112623	Screw
33-336	125206	Screw
33-337	112624	Screw
33-341	125209	Screw
33-344	125211	Screw
33-346	125212	Screw
33-348	125213	Screw
33-350	125215	Screw
33-360	1181	Screw
33-362	125217	Screw
34-1	125218	Nut
34-2	3595	Nut
34-4	112626	Nut
34-5	5475	Nut
34-6	3597	Nut
34-7	70073	Nut
34-8	3598	Nut
34-9	3599	Nut
34-10	125220	Nut
34-11	112627	Nut
*34-12	55257	Nut
34-13	125221	Nut
34-14	5815	Nut
34-16	125222	Nut
34-19	125223	Nut
34-24	125224	Nut
34-25	3600	Nut
34-27	125225	Nut
34-28	3602	Nut
34-29	3603	Nut
34-39	125227	Nut
34-41	125228	Nut
34-48	125229	Nut
34-50	3604	Nut
*34-51	1036	Nut
34-55	3606	Nut
34-56	110435	Nut
34-58	125231	Nut
34-59	125009	Nut
34-61	125233	Nut
34-64	112628	Nut
34-66	125235	Nut
35-1	112629	Spring
35-2	112630	Spring
35-8	112631	Spring
35-13	125236	Spring
35-24	125239	Spring
35-27	125241	Spring
35-28	125242	Spring
35-33	112632	Spring
35-34	125243	Spring
35-40	125244	Spring
35-42	110436	Spring
35-47	125246	Spring
35-52	4702	Spring
35-53	125248	Spring
35-54	112633	Spring
35-58	3608	Spring
35-68	125250	Spring
35-69	125251	Spring
35-70	110437	Spring
35-71	125252	Spring
35-72	125253	Spring
35-78	125254	Spring
35-80	125255	Spring
35-85	125257	Spring
35-86	4703	Spring
35-87	4708	Spring
35-88	110438	Spring
35-89	112634	Spring
35-99	125258	Spring
35-116	125262	Spring
35-126	3610	Spring
35-132	125267	Spring
35-133	125268	Spring
35-134	4705	Spring
35-137	112635	Spring
*35-140	112636	Spring
36-24	125272	Pin
36-28	125273	Pin
36-39	125276	Pin
36-45	125277	Pin
36-51	125278	Pin
36-56	3614	Pin
36-73	125280	Pin
36-80	125281	Pin
36-110	125288	Pin
36-114	125290	Pin
36-120	125269	Pin
*36-131	125092	Dowel
36-132	125292	Pin
36-137	3614	Pin
36-147	125296	Pin
36-150	125297	Pin
36-153	110440	Pin
36-164	125300	Pin
43-10	125306	Stop
*43-12	71047	Washer
46-3	125307	Washer
61-7	3618	Insulator
61-10	125314	Screw
61-24	125010	Washer
61-25	125317	Insulator
100-74	5816	Washer
100-75	3620	Washer
100-80	125328	Bushing
100-84	125330	Screw
100-85	3621	Terminal
100-96	110441	Shim
100-108	3624	Washer
100-112	125339	Terminal
100-120	125341	Bushing
103-27	125011	Washer
112-7	125373	Screw
122-5	125379	Post
122-11	125380	Chute
122-12	125381	Stud
122-18	125382	Cable
S-122-19	125383	Bracket
S-122-20	125384	Bracket
S-122-21	125385	Bracket

*Indicates change

Old No.	New No.	Description
S-122-22	125386	Bracket
S-122-23	125387	Bracket
S-122-24	125388	Bracket
122-25	125389	Bracket
122-26	125390	Washer
122-27	125391	Shaft
122-28	125392	Stop
122-29	125393	Pin
122-35	125394	Plate
122-36	125395	Pin
S-122-37	125396	Guide
S-122-38	125397	Bar
S-122-39	3625	Shaft
S-122-40	125398	Bracket
122-42	125400	Gear
122-43	125401	Gear
122-46	125402	Post
122-48	125012	Socket
122-49	125403	Fitting
122-50	125404	Lamp
122-51	125405	Bell Crank
122-52	125406	Bell Crank
122-53	125407	Bell Crank
122-54	125408	Bell Crank
122-55	125409	Bell Crank
122-56	125410	Bushing
122-57	125411	Bushing
122-58	125412	Stud
122-60	125413	Ratchet
122-61	125414	Post
122-62	125415	Pin
122-63	125416	Post
122-65	125417	Stud
122-67	125418	Post
122-68	3626	Foot
S-122-69	125419	Stop
122-84	125421	Pin
122-86	125422	Pin
122-88	125423	Solenoid Assem.
122-89	125424	Bracket
122-94	125425	Terminal Brd.
122-95	125426	Insulator
122-97	125427	Bushing
122-100	125428	Plate
122-101	125429	Head
122-102	125430	Post
122-106	125431	Bracket Assem.
122-107	125433	Bracket
122-108	125434	Bushing
122-113	9575	Screw
122-116	125438	Lever Assem.
122-117	125439	Lever
122-118	125440	Terminal
122-119	125441	Contact Assem.
122-121	125443	Contact
122-124	125444	Spring
122-126	125445	Insulator
122-127	125446	Stud
122-128	125447	Bracket Assem.
122-129	125448	Bracket
S-122-130	125449	Lever Assem.
122-133	125450	Post
S-122-134	125451	Bell Crank
122-135	125452	Washer
S-122-136	125453	Bracket
122-137	125454	Gear Assem.
122-140	125456	Stud
122-143	125457	Connector
122-146	125458	Bearing
122-147	125459	Bushing
122-194	125463	Disk
122-195	125464	Disk
122-196	125465	Bezel
S-122-234	3627	Bar
122-242	125467	Lever Assem.
122-244	125468	Post
122-245	125469	Pawl
122-246	125470	Post
122-247	125471	Disk Assem.
122-249	125472	Stud
122-259	125479	Disk
122-275	125481	Bracket
122-276	125013	Plate
122-350	125487	Tape Reel
122-357	125488	Spacer
122-359	125490	Ratchet
122-364	125492	Bracket
122-365	125493	Punch Pin
122-366	125494	Punch Pin
122-369	125495	Guide Plate
122-374	125499	Punch Bar
122-375	125500	Punch Bar
122-376	125501	Punch Bar
122-377	125502	Punch Bar
122-378	125503	Punch Bar
122-380	125504	Lever
122-381	125505	Contact
122-382	125506	Bail
122-383	125507	Key Lever
122-384	112640	Die Block
122-386	125508	Bail Assem.
122-389	125511	Pawl Assem.
122-390	125512	Contact Assem.
122-396	125514	Hammer Assem.
122-431	125548	Paper Keytop
122-432	125549	Paper Keytop
122-433	125550	Paper Keytop
122-434	125551	Paper Keytop
122-435	125552	Paper Keytop
122-438	125555	Head
122-451	125560	Lever Assem.
122-452	125561	Lever Assem.
122-453	125562	Cable Assem.
122-454	125563	Cable
122-459	125565	Paper Keytop
122-460	125566	Paper Keytop
122-461	125567	Paper Keytop
122-462	125568	Paper Keytop
122-463	125569	Paper Keytop
122-464	125570	Paper Keytop
122-465	125571	Paper Keytop
122-466	125572	Paper Keytop
122-467	125573	Paper Keytop
122-468	125574	Paper Keytop
122-469	125575	Paper Keytop
122-470	125576	Paper Keytop
122-471	125577	Paper Keytop
122-472	125578	Paper Keytop
122-473	125579	Paper Keytop
122-474	125580	Paper Keytop
122-475	125581	Paper Keytop
122-476	125582	Paper Keytop
122-477	125583	Paper Keytop
122-478	125584	Paper Keytop
122-479	125585	Paper Keytop
122-480	125586	Paper Keytop
122-481	125587	Paper Keytop
122-482	125588	Paper Keytop
122-483	125589	Paper Keytop
122-484	125590	Paper Keytop
122-511	125594	Guide Assem.
122-528	125596	Key Lever Assem.
122-529	125597	Key Lever Assem.
122-530	125598	Key Lever Assem.
122-531	125599	Key Lever Assem.
122-532	125600	Key Lever Assem.
122-533	125601	Key Lever Assem.
122-534	125602	Key Lever Assem.
122-535	125603	Key Lever Assem.
122-536	125604	Key Lever Assem.
122-537	125605	Key Lever Assem.
122-538	125606	Key Lever Assem.
122-539	125607	Key Lever Assem.
122-540	125608	Key Lever Assem.
122-541	125609	Key Lever Assem.
122-542	125610	Key Lever Assem.
122-543	125611	Key Lever Assem.
122-544	125612	Key Lever Assem.
122-545	125613	Key Lever Assem.
122-546	125614	Key Lever Assem.
122-547	125615	Key Lever Assem.
122-548	125616	Key Lever Assem.
122-549	125617	Key Lever Assem.
122-550	125618	Key Lever Assem.
122-551	125619	Key Lever Assem.
122-552	125620	Key Lever Assem.
122-553	125621	Key Lever Assem.
122-554	125622	Key Lever Assem.
122-555	125623	Key Lever Assem.
122-556	125624	Key Lever Assem.
122-557	125198	Key Lever Assem.
122-558	125625	Key Lever Assem.
122-559	125626	Key Lever Assem.
122-567	125631	Hammer Assem.
122-571	125633	Guide Plate
122-575	111019	Block
122-576	125636	Plate Assem.
122-577	125637	Ratchet Assem.
122-580	125638	Paper Keytop
122-581	125639	Paper Keytop
122-582	125640	Paper Keytop
122-586	125642	Bracket Assem.
122-589	125643	Washer
122-592	125645	Guide
122-593	125646	Plate
122-594	125647	Plate
122-596	125648	Key Lever
122-597	125649	Key Lever
122-598	125650	Key Lever
122-599	125651	Key Lever
122-600	125652	Key Lever
122-601	125653	Key Lever
122-602	125654	Key Lever
122-603	125655	Key Lever
122-604	125656	Key Lever
122-605	125657	Key Lever
122-606	125658	Key Lever
122-607	125659	Key Lever
122-608	125660	Key Lever
122-609	125661	Key Lever
122-610	125662	Key Lever
122-611	125663	Key Lever
122-612	125664	Key Lever
122-613	125665	Key Lever
122-614	125666	Key Lever
122-615	125667	Key Lever
122-616	125668	Key Lever
122-617	125669	Key Lever
122-618	125670	Key Lever
122-619	125671	Key Lever

Old No.	New No.	Description
122-620	125672	Key Lever
122-621	125673	Key Lever
122-622	125674	Key Lever
122-623	125675	Key Lever
122-624	125676	Key Lever
122-625	125677	Key Lever
122-626	125678	Key Lever
122-697	125683	Bushing
122-698	125684	Lever Assem.
122-699	125685	Stud
122-700	125686	Lever Assem.
122-702	125687	Bushing
122-703	125688	Bracket Assem.
122-704	125689	Paper Keytop
122-705	125690	Paper Keytop
122-706	125691	Paper Keytop
122-707	125692	Paper Keytop
122-708	125693	Paper Keytop
122-709	125694	Paper Keytop
122-710	125695	Paper Keytop
123-7	3628	Bushing
123-8	71444	Bushing
123-36	3630	Bushing
123-37	125696	Post
123-164	3633	Bushing
123-165	3634	Bushing
123-166	3635	Washer
123-167	3636	Washer
123-244	125015	Washer
123-308	125703	Terminal
125-9	3638	Condenser
125-176	125716	Switch Box
125-197	125097	Nipple
125-198	125098	Nut
125-208	125719	Nipple
125-209	125720	Nut
125-237	125723	Fuse
125-238	125724	Fuse
126-123	125016	Grommet
138-22	110442	Screw Driver
138-23	125752	Wrench
138-25	125754	Wrench
138-26	125755	Wrench
138-27	125756	Wrench
138-28	125757	Wrench
138-30	125758	File
138-33	125760	Wrench
138-34	125761	Wrench
138-36	125763	Wrench
138-43	126242	Gauge
138-44	126243	Gauge
138-55	110443	Scale
138-58	110444	Scale
138-100	88993	Burnisher
138-125	126245	Gauge
138-126	126246	Gauge
138-127	125775	Wrench
138-128	125776	Wrench
138-129	125777	Wrench
138-137	110445	Tool
138-139	125783	Stone
200-20	3639	Washer
200-153	3640	Washer
200-214	125789	Shim
200-1032	3646	Washer
200-1134	125793	Pin
200-1139	3647	Insulator
200-1177	126251	Insulator
200-1348	125802	Washer
200-2212	3649	Washer
300-106	125814	Guide
300-107	125815	Contact Assem.
300-108	125816	Mounting Bar
300-109	125817	Mounting Bar
300-110	125818	Insulator
300-113	125820	Disk
300-121	125828	Shaft
300-128	125829	Lever
300-137	125833	Lever Guide
300-152	125844	Adj. Lever
300-170	125848	Cont. Lever
300-171	125849	Cont. Lever
300-172	125850	Cont. Lever
300-173	125851	Cont. Lever
300-174	125852	Cont. Lever
300-178	125855	Terminal
300-179	125856	Terminal Block
300-181	125858	Feed Pawl
300-201	125860	End Bracket
300-301	5556	Top Plate
300-302	125861	Feed Wheel
*300-303	125862	Bearing
300-312	125867	Bracket
300-314	125868	Detent Assem.
300-319	125871	Bracket
300-320	125872	Shaft
300-322	125873	Latch
300-400	125874	End Bracket
300-506	4707	Washer
300-510	125882	Terminal
400-3	125903	Brush
400-218	125914	Terminal
500-205	125935	Spring
700-55	125947	Screw
700-59	125948	Screw
700-71	3650	Washer
W-1238	126234	Pin
*55083-1	126096	"T" Bar
*55083-2	126097	"T" Bar
*55083-3	126098	"T" Bar
*55083-4	126099	"T" Bar
*55083-5	126100	"T" Bar
*55083-6	126101	"T" Bar
*55083-7	126102	"T" Bar
*55083-8	126103	"T" Bar
*55083-9	126104	"T" Bar
*55083-10	126105	"T" Bar
*55083-11	126106	"T" Bar
*55083-12	126107	"T" Bar
*55083-13	126108	"T" Bar
*55083-14	126109	"T" Bar
*55083-15	126110	"T" Bar
*55083-16	126111	"T" Bar
*55083-17	126112	"T" Bar
*55083-18	126113	"T" Bar
*55083-20	126114	"T" Bar
*55083-21	126115	"T" Bar
55084-A2	126156	Bar
55084-A4	126157	Bar
55084-A6	126158	Bar
55084-A8	126159	Bar
55084-A10	126160	Bar
55084-A12	126161	Bar
55084-A14	126162	Bar
55084-A16	126163	Bar
55084-A18	126164	Bar
55084-A20	126165	Bar
55084-B1	126166	Bar
55084-B3	126167	Bar
55084-B5	126168	Bar
55084-B7	126169	Bar
55084-B9	126170	Bar
55084-B11	126171	Bar
55084-B13	126172	Bar
55084-B15	126173	Bar
55084-B17	126174	Bar

*Indicates change

NEW TO OLD NUMBER CONVERSION LIST

New No.	Old No.
*1036	34-51
1157	33-1
1158	33-3
1159	33-5
1160	33-6
1161	33-7
1162	(33-10
	(33-156
1163	33-11
1164	33-14
1165	33-16
1166	33-17
1168	33-35
1169	33-37
1170	33-49
1171	33-53
1172	33-54
1173	33-64
1174	33-157
1176	33-195
1177	33-234
1179	33-238
1181	33-360
1222	33-39
1223	33-69
1263	33-4
3595	34-2
3597	34-6
3598	34-8
3599	34-9
3600	34-25
3602	34-28
3603	34-29
3604	34-50
3606	34-55
3608	35-58
3610	35-126
3614	(36-56
	(36-137
3618	61-7
3620	100-75
3621	100-85
3624	100-108
3625	S-122-39
3626	122-68
3627	S-122-234
3628	123-7
3630	123-36
3633	123-164
3634	123-165
3635	123-166
3636	123-167
3638	125-9
3639	200-20
3640	200-153
3646	200-1032
3647	200-1139
3649	200-2212
3650	700-71
4702	35-52
4703	35-86
4705	35-134
4707	300-506
4708	35-87
5475	34-5
5556	300-301
5740	33-13
5815	34-14
5816	100-74
9575	122-113
49054	33-111
*55257	34-12
70073	34-7
*71047	43-12
71444	123-8
74879	4-8
86850	33-240
87636	33-270
88993	138-100
110434	33-110
110435	34-56
110436	35-42
110437	35-70
110438	35-88
110440	36-153
110441	100-96
110442	138-22
110443	138-55
110444	138-58
110445	138-137
111019	122-575
112620	33-21
112621	33-170
112622	33-334
112623	33-335
112624	33-337
112626	34-4
112627	34-11
112628	34-64
112629	35-1
112630	35-2
112631	35-8
112632	35-33
112633	35-54
112634	35-89
112635	35-137
*112636	35-140
112640	122-384
125001	33-132
125002	33-179
125003	33-206
125005	33-280
125006	33-333
125009	34-59
125010	61-24
125011	103-27
125012	122-48
125013	122-276
125015	123-244
125016	126-123
*125092	36-131
125097	125-197
125098	125-198
125105	23-8
125108	33-2
125109	33-8
125110	33-9
125111	33-12
125112	33-15
125113	33-18
125114	33-22
125116	33-29
125117	33-32
125119	33-38
125120	33-41
125122	33-43
125124	33-50
125126	33-57
125127	33-58
125130	33-63
125131	33-65
125132	33-70
125138	33-85
125139	33-86
125141	33-89
125142	33-98
125143	33-101
125146	33-114
125149	33-130
125154	33-153
125155	33-158
125157	33-163
125159	33-168
125162	33-180
125163	33-185
125164	33-193
125165	33-194
125167	33-197
125168	33-198
125170	33-207
125171	33-208
125176	33-213
125178	33-224
125179	33-225
125180	33-227
125189	33-252
125190	33-253
125191	33-254
125192	33-255
125193	33-257
125195	33-271
125197	33-276
125198	122-557
125199	33-278
125200	33-282
125201	33-283
125205	33-296
125206	33-336
125209	33-341
125211	33-344
125212	33-346
125213	33-348
125215	33-350
125217	33-362
125218	34-1
125220	34-10
125221	34-13
125222	34-16
125223	34-19
125224	34-24
125225	34-27
125227	34-39
125228	34-41
125229	34-48
125231	34-58
125233	34-61
125235	34-66
125236	35-13
125239	35-24
125241	35-27
125242	35-28
125243	35-34
125244	35-40
125246	35-47
125248	35-53
125250	35-68
125251	35-69
125252	35-71
125253	35-72
125254	35-78
125255	35-80
125257	35-85
125258	35-99
125262	35-116
125267	35-132
125268	35-133
125269	36-120
125272	36-24
125273	36-28
125276	36-39
125277	36-45
125278	36-51
125280	36-73
125281	36-80
125288	36-110
125290	36-114
125292	36-132
125296	36-147
125297	36-150
125300	36-164
125306	43-10
125307	46-3
125314	61-10
125317	61-25
125328	100-80
125330	100-84
125339	100-112
125341	100-120
125373	112-7
125379	122-5
125380	122-11
125381	122-12
125382	122-18
125383	S-122-19
125384	S-122-20
125385	S-122-21
125386	S-122-22
125387	S-122-23
125388	S-122-24
125389	122-25
125390	122-26
125391	122-27
125392	122-28
125393	122-29
I25394	122-35
125395	122-36
125396	S-122-37
125397	S-122-38
125398	S-122-40
125400	122-42
125401	122-43
125402	122-46
125403	122-49
125404	122-50
125405	122-51
125406	122-52
125407	122-53
125408	122-54
125409	122-55
125410	122-56
125411	122-57
125412	122-58
125413	122-60
125414	122-61
125415	122-62
125416	122-63
125417	122-65
125418	122-67
125419	S-122-69
125421	122-84
125422	122-86
125423	122-88

*Indicates change

New No.	Old No.
125424	122-89
125425	122-94
125426	122-95
125427	122-97
125428	122-100
125429	122-101
125430	122-102
125431	122-106
125433	122-107
125434	122-108
125438	122-116
125439	122-117
125440	122-118
125441	122-119
125443	122-121
125444	122-124
125445	122-126
125446	122-127
125447	122-128
125448	122-129
125449	S-122-130
125450	122-133
125451	S-122-134
125452	122-135
125453	S-122-136
125454	122-137
125456	122-140
125457	122-143
125458	122-146
125459	122-147
125463	122-194
125464	122-195
125465	122-196
125467	122-242
125468	122-244
125469	122-245
125470	122-246
125471	122-247
125472	122-249
125479	122-259
125481	122-275
125487	122-350
125488	122-357
125490	122-359
125492	122-364
125493	122-365
125494	122-366
125495	122-369
125499	122-374
125500	122-375
125501	122-376
125502	122-377
125503	122-378
125504	122-380
125505	122-381
125506	122-382
125507	122-383
125508	122-386
125511	122-389
125512	122-390
125514	122-396
125548	122-431
125549	122-432
125550	122-433
125551	122-434
125552	122-435
125555	122-438
125560	122-451
125561	122-452
125562	122-453
125563	122-454
125565	122-459

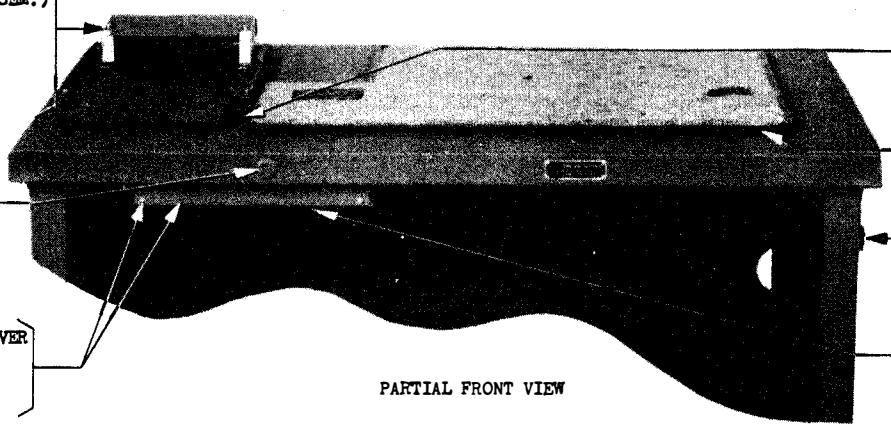
New No.	Old No.
125566	122-460
125567	122-461
125568	122-462
125569	122-463
125570	122-464
125571	122-465
125572	122-466
125573	122-467
125574	122-468
125575	122-469
125576	122-470
125577	122-471
125578	122-472
125579	122-473
125580	122-474
125581	122-475
125582	122-476
125583	122-477
125584	122-478
125585	122-479
125586	122-480
125587	122-481
125588	122-482
125589	122-483
125590	122-484
125594	122-511
125596	122-528
125597	122-529
125598	122-530
125599	122-531
125600	122-532
125601	122-533
125602	122-534
125603	122-535
125604	122-536
125605	122-537
125606	122-538
125607	122-539
125608	122-540
125609	122-541
125610	122-542
125611	122-543
125612	122-544
125613	122-545
125614	122-546
125615	122-547
125616	122-548
125617	122-549
125618	122-550
125619	122-551
125620	122-552
125621	122-553
125622	122-554
125623	122-555
125624	122-556
125625	122-558
125626	122-559
125631	122-567
125633	122-571
125636	122-576
125637	122-577
125638	122-580
125639	122-581
125640	122-582
125642	122-586
125643	122-589
125645	122-592
125646	122-593
125647	122-594
125648	122-596
125649	122-597
125650	122-598

New No.	Old No.
125651	122-599
125652	122-600
125653	122-601
125654	122-602
125655	122-603
125656	122-604
125657	122-605
125658	122-606
125659	122-607
125660	122-608
125661	122-609
125662	122-610
125663	122-611
125664	122-612
125665	122-613
125666	122-614
125667	122-615
125668	122-616
125669	122-617
125670	122-618
125671	122-619
125672	122-620
125673	122-621
125674	122-622
125675	122-623
125676	122-624
125677	122-625
125678	122-626
125683	122-697
125684	122-698
125685	122-699
125686	122-700
125687	122-702
125688	122-703
125689	122-704
125690	122-705
125691	122-706
125692	122-707
125693	122-708
125694	122-709
125695	122-710
125696	123-37
125703	123-308
125716	125-176
125719	125-208
125720	125-209
125723	125-237
125724	125-238
125752	138-23
125754	138-25
125755	138-26
125756	138-27
125757	138-28
125758	138-30
125760	138-33
125761	138-34
125763	138-36
125775	138-127
125776	138-128
125777	138-129
125783	138-139
125789	200-214
125793	200-1134
125802	200-1348
125814	300-106
125815	300-107
125816	300-108
125817	300-109
125818	300-110
125820	300-113
125828	300-121
125829	300-128

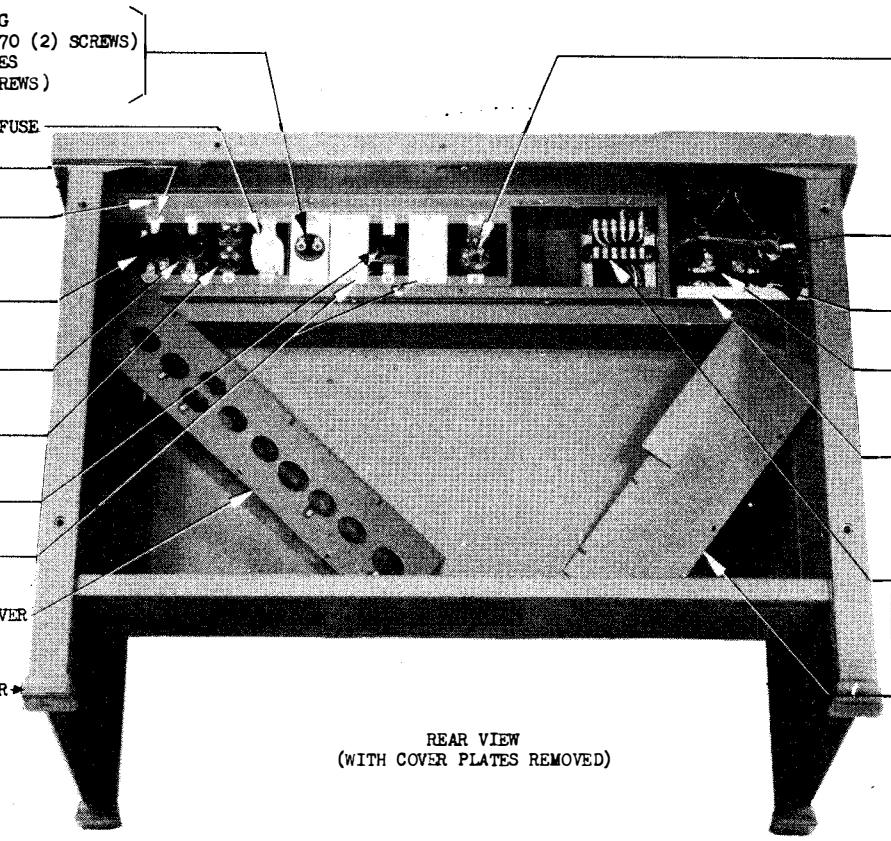
New No.	Old No.
125833	300-137
125844	300-152
125848	300-170
125849	300-171
125850	300-172
125851	300-173
125852	300-174
125855	300-178
125856	300-179
125858	300-181
125860	300-201
125861	300-302
125862	300-303
125867	300-312
125868	300-314
125871	300-319
125872	300-320
125873	300-322
125874	300-400
125882	300-510
125903	400-3
125914	400-218
125935	500-205
125947	700-55
125948	700-59
126096	55083-1
126097	55083-2
126098	55083-3
126099	55083-4
126100	55083-5
126101	55083-6
126102	55083-7
126103	55083-8
126104	55083-9
126105	55083-10
126106	55083-11
126107	55083-12
126108	55083-13
126109	55083-14
126110	55083-15
126111	55083-16
126112	55083-17
126113	55083-18
126114	55083-20
126115	55083-21
126156	55084-A2
126157	55084-A4
126158	55084-A6
126159	55084-A8
126160	55084-A10
126161	55084-A12
126162	55084-A14
126163	55084-A16
126164	55084-A18
126165	55084-A20
126166	55084-B1
126167	55084-B3
126168	55084-B5
126169	55084-B7
126170	55084-B9
126171	55084-B11
126172	55084-B13
126173	55084-B15
126174	55084-B17
126234	W-1238
126242	138-43
126243	138-44
126245	138-125
126246	138-126
126251	200-1177

CHANGES AND ADDITIONS
TO BULLETIN NO. 1077 (ISSUE 3)

PARTS ORDERING INFORMATION FOR
MODEL 19 TABLES XRT205** AND XRT206**



PARTIAL FRONT VIEW

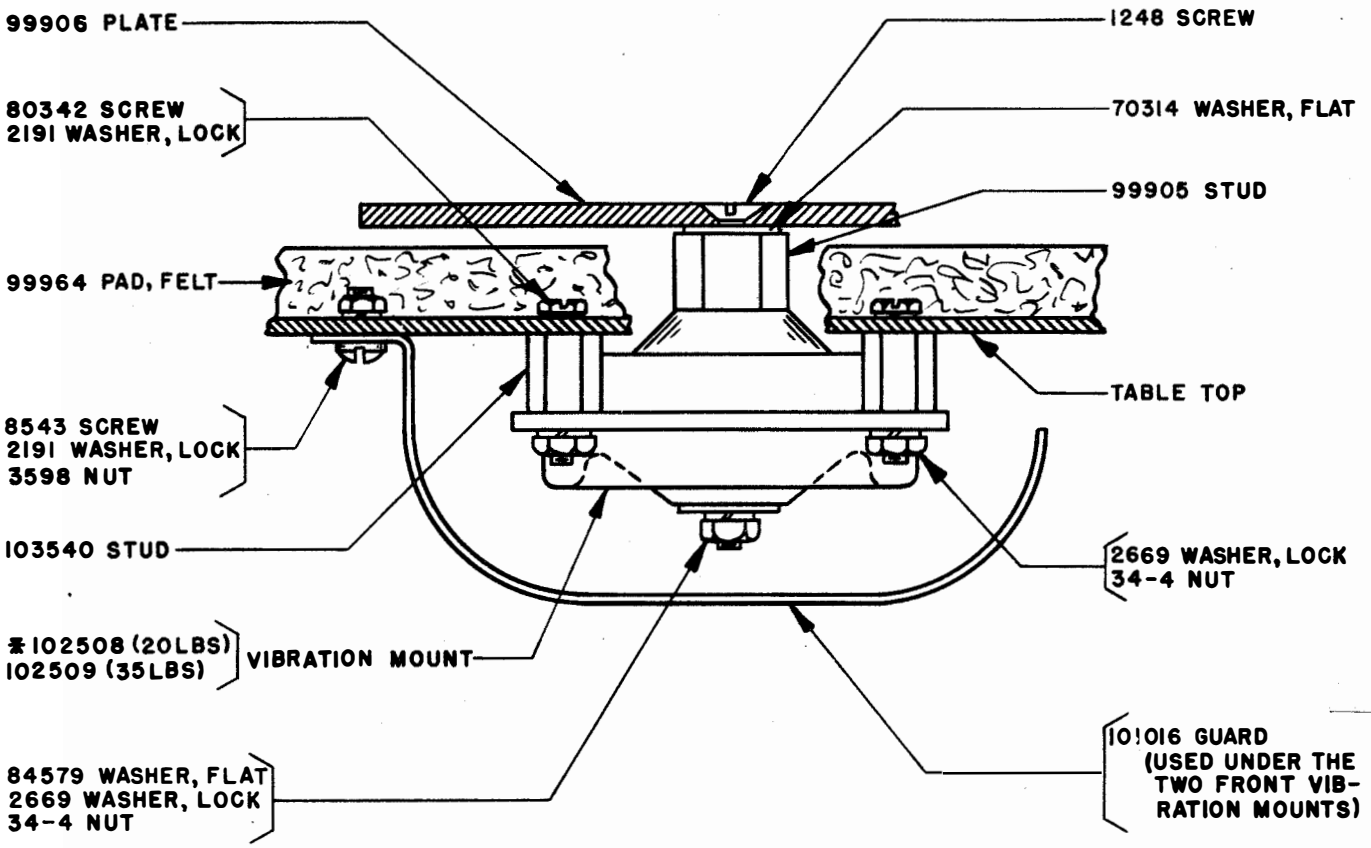


REAR VIEW
(WITH COVER PLATES REMOVED)

NOTE: THE DOUBLE ASTERISK (**) DESIGNATES A TWO-LETTER SUFFIX WHICH INDICATES THE TEXTURE AND COLOR OF THE PAINT FINISH. THE FOLLOWING FOUR STANDARD WRINKLE FINISHES ARE NOW AVAILABLE:

AA - BLACK
AB - GRAY GREEN
AC - LIGHT BROWN
AD - DARK BROWN

CUSHION MOUNTING PARTS FOR MODEL 19 TABLE



VIBRATION MOUNT AS VIEWED
FROM RIGHT SIDE OF TABLE

THE XRT205 METAL TABLE WHEN EQUIPPED WITH THE 117082 SET OF PARTS (SHOWN ABOVE) CONVERTS IT TO AN XRT206.

* THE 102508 (20 LBS.) VIBRATION MOUNT IS TO BE PLACED AT THE LEFT REAR SIDE AS VIEWED FROM FRONT OF TABLE.

CHANGES AND ADDITIONS
BULLETIN 1077 (ISSUE 3) PARTS - TABLES

This correction sheet covers parts ordering information for the XT201** Table with the 97414** Shelf. XT201** Table supersedes the XT39 Table.

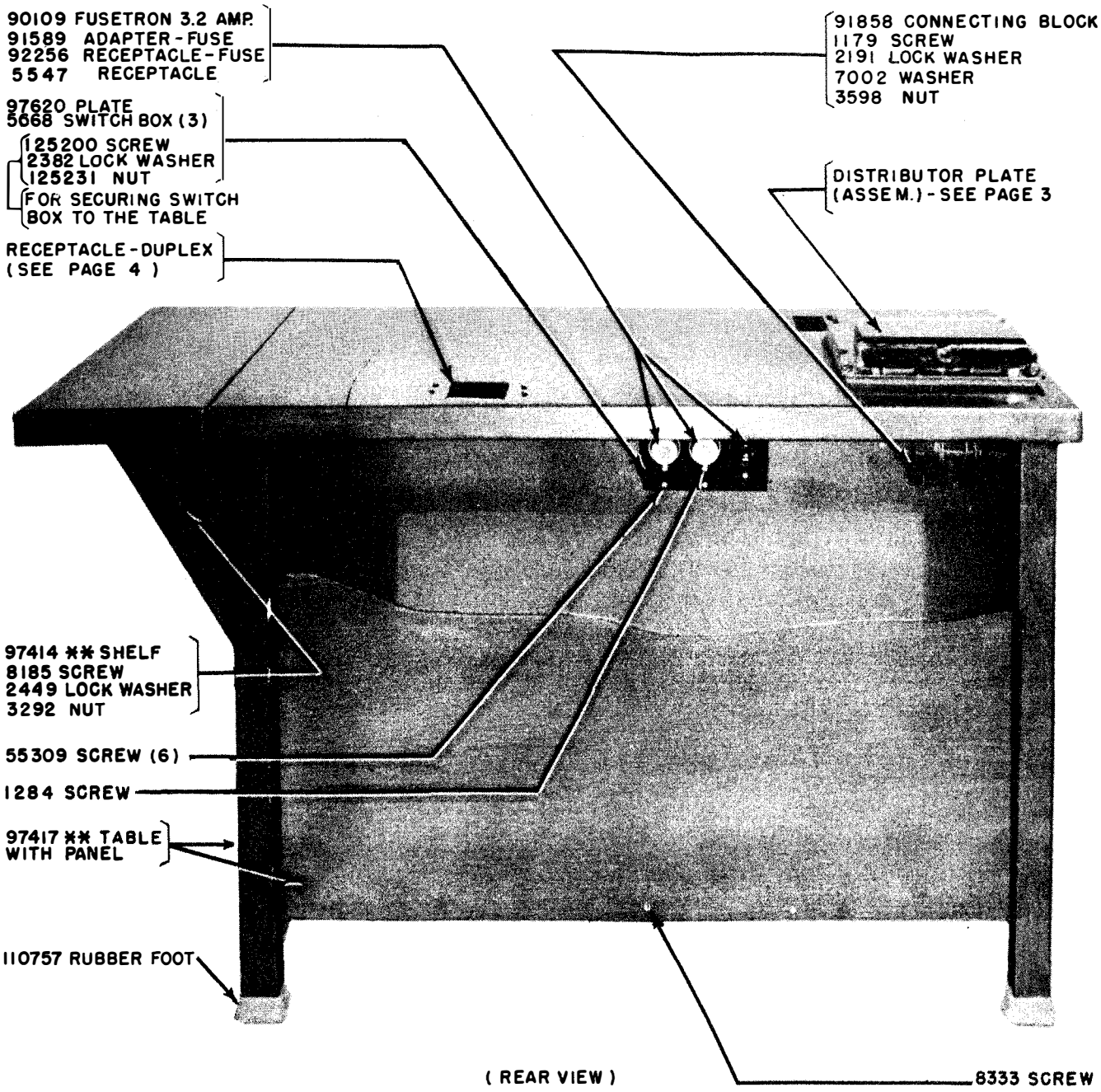
On page 3 of this correction sheet, the 115932** Distributor Mounting Plate Assembly (Six Unit) supersedes the 84103 Mounting Plate Assembly (Five Unit) shown on page 13 of the bulletin.

Note:

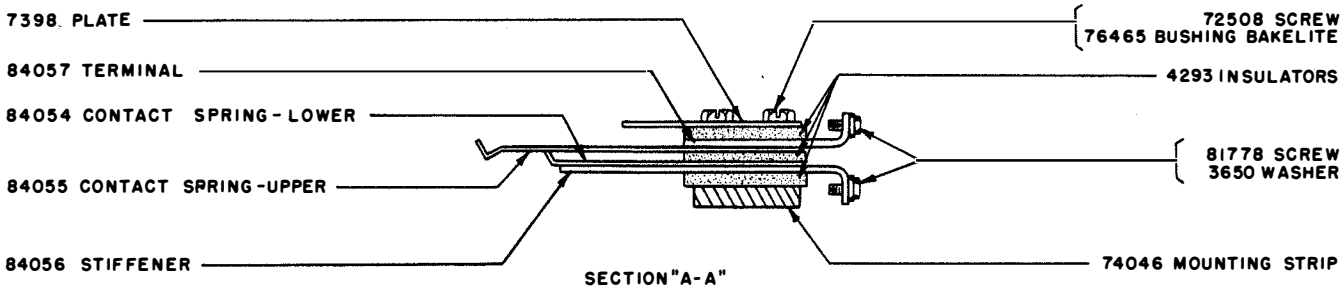
The double asterisk (**) designates a two-letter suffix which denotes the paint finish. The following finishes are now available on the finished parts listed in this correction sheet:

AA - Black Wrinkle
AB - Gray Green Wrinkle
AC - Light Brown Wrinkle
AD - Dark Brown Wrinkle

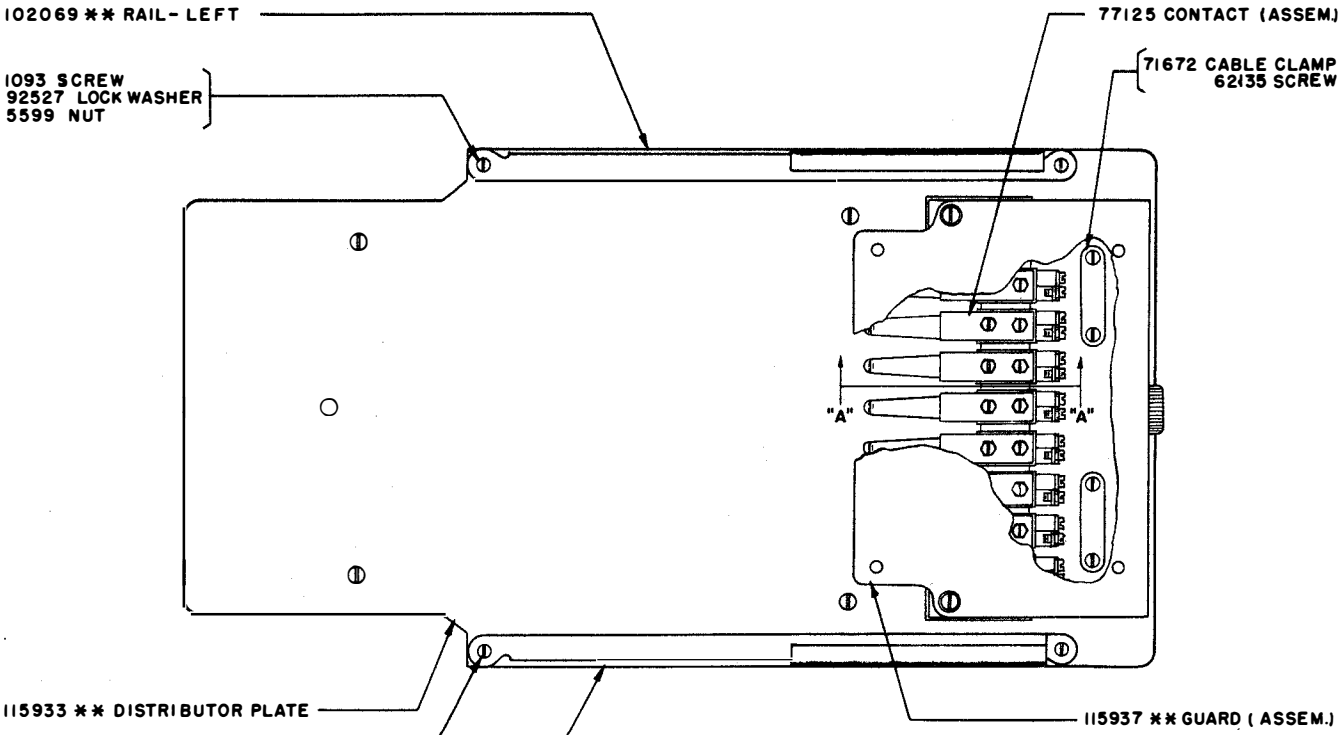
67243

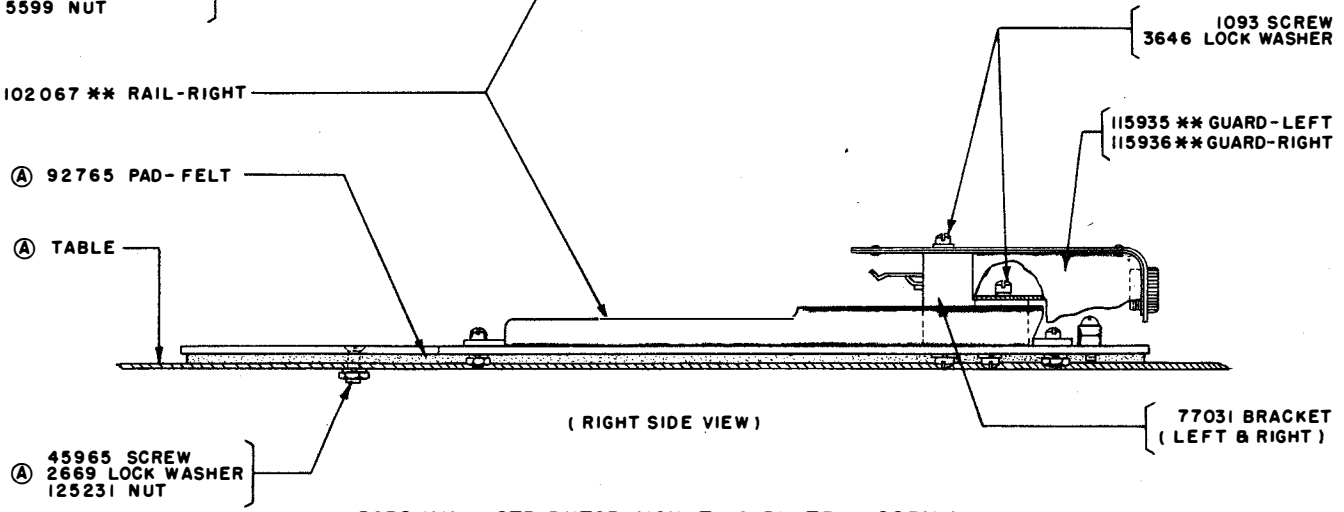


XT201 ** TABLE
(EXCLUDES 97414 ** SHELF & MOUNTING PARTS)



77125 CONTACT (ASSEM.)



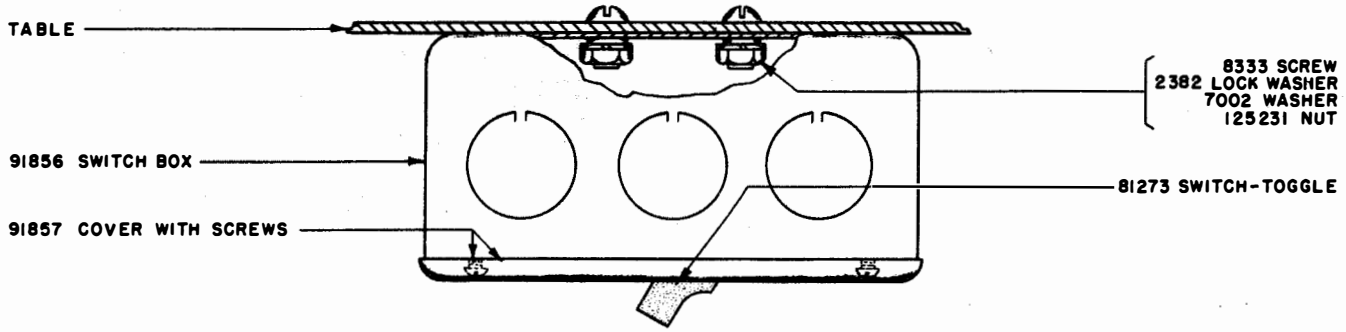


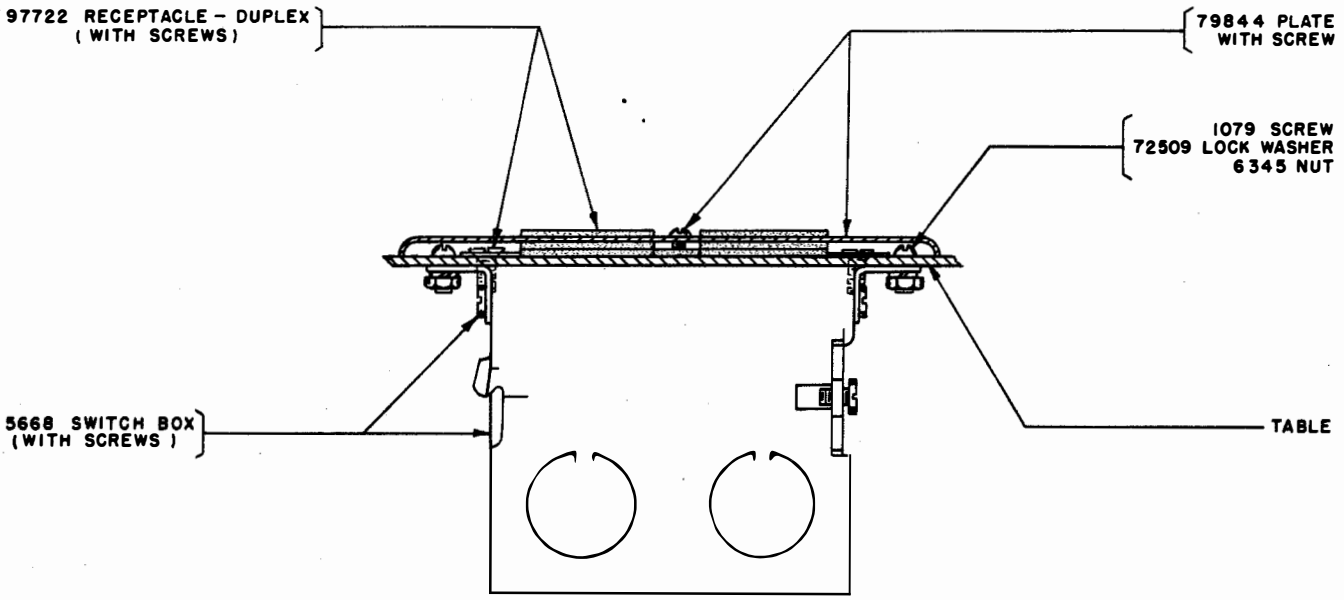
115932 ** DISTRIBUTOR MOUNTING PLATE (ASSEM.)

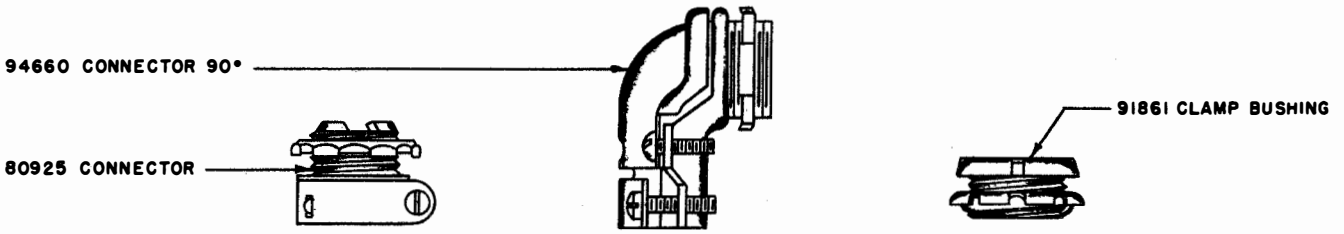
• EXCLUDES PARTS MARKED Ⓐ

(**) SEE NOTE ON PAGE 1

6724 587

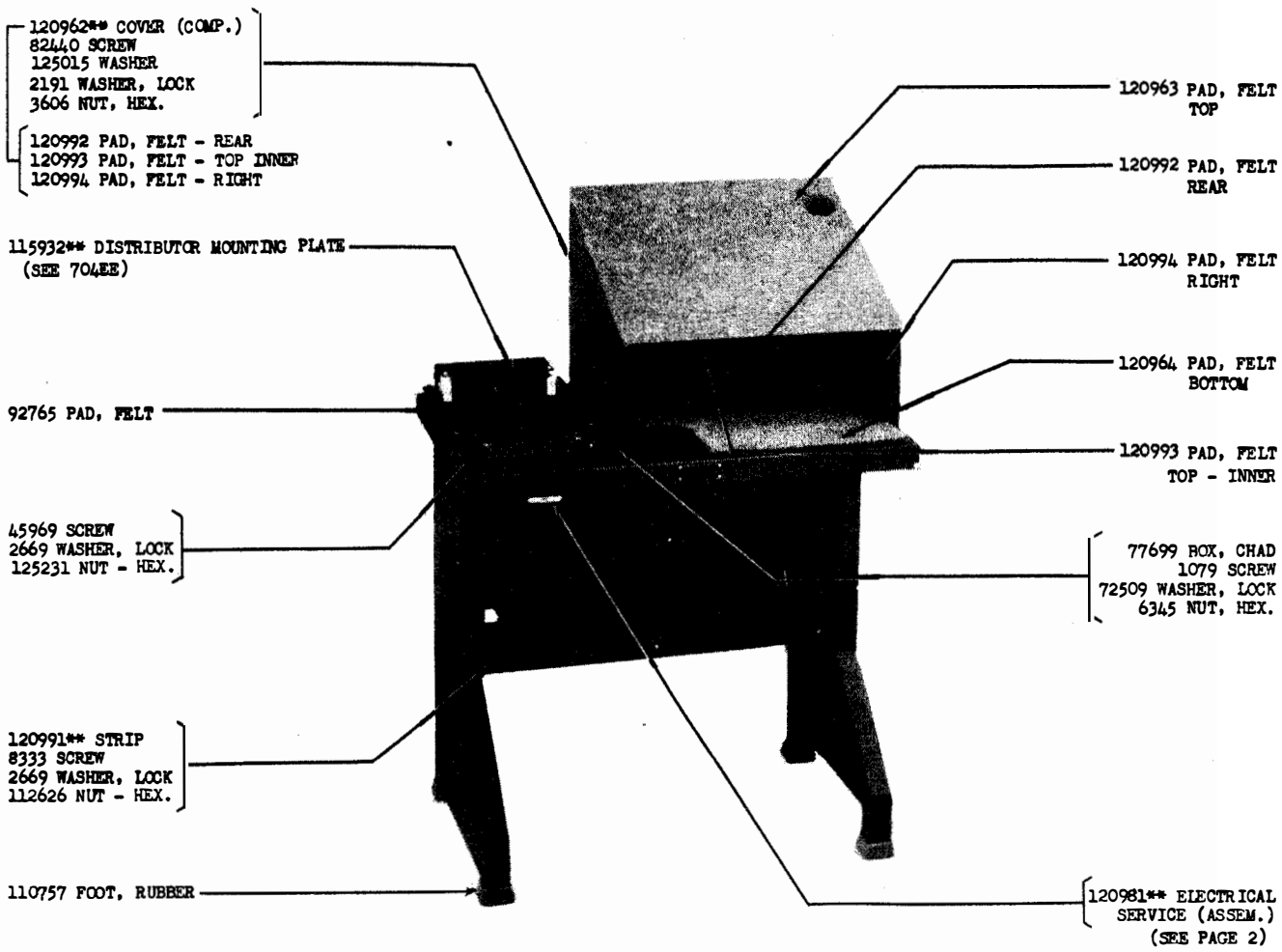






ELECTRICAL FEATURES

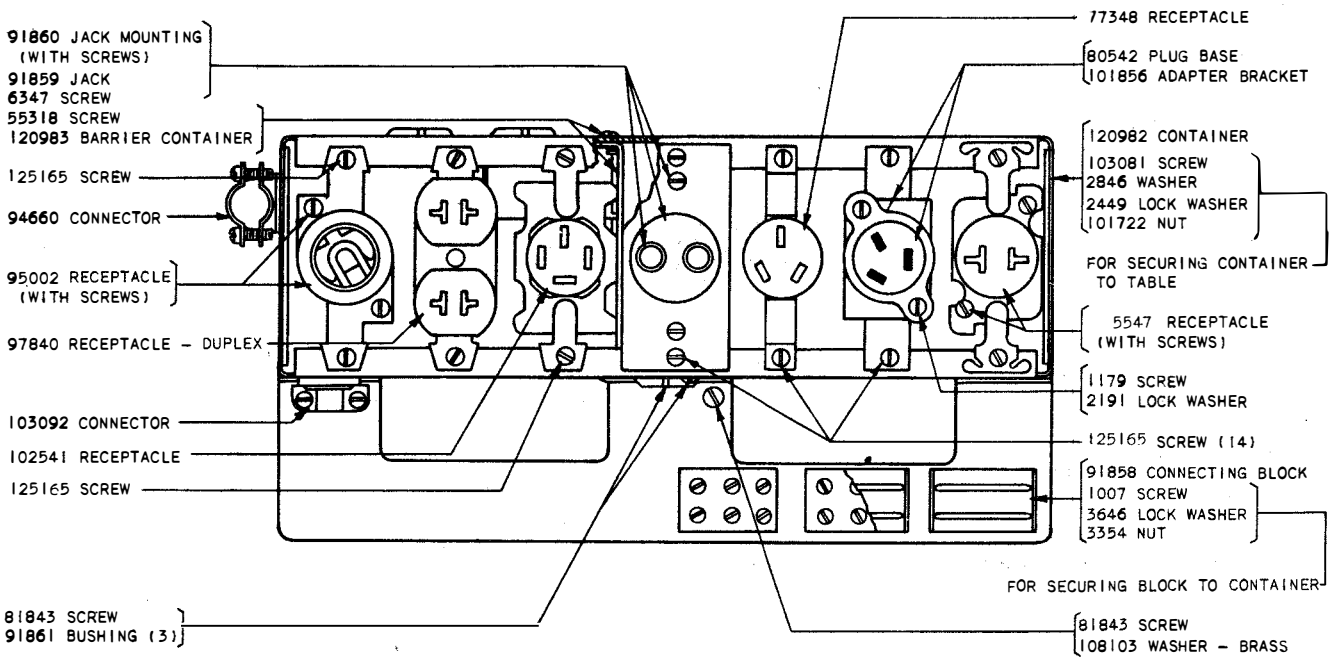
CHANGES AND ADDITIONS
TO PARTS BULLETIN B-1077, ISSUE 3
TO PROVIDE PARTS ORDERING INFORMATION
FOR XT202** TABLE



XT202** TABLE

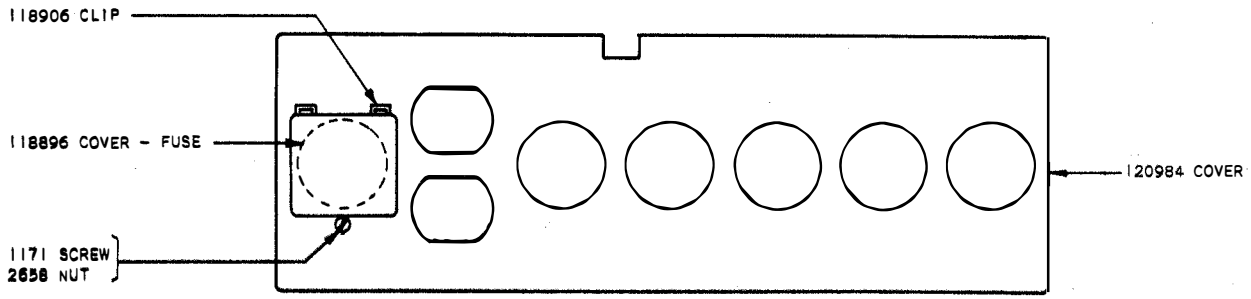
NOTE: THE DOUBLE ASTERISK (**) DESIGNATES A TWO-LETTER SUFFIX WHICH DENOTES THE PAINT FINISH. THE FOLLOWING FINISHES ARE NOW AVAILABLE ON THE FINISHED PARTS LISTED ABOVE:

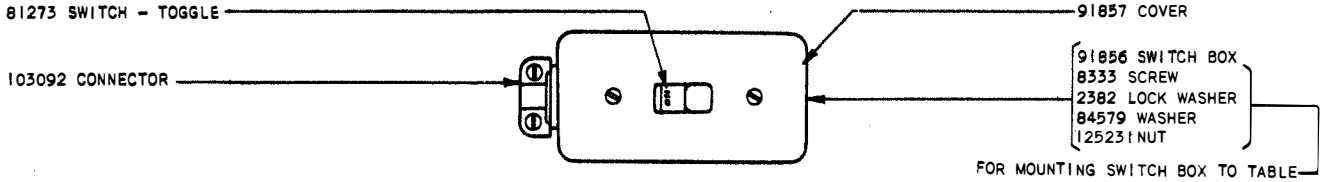
AA - BLACK WRINKLE
AB - GRAY GREEN WRINKLE
AC - LIGHT BROWN WRINKLE
AD - DARK BROWN WRINKLE



TOP VIEW COVER REMOVED

120985 CABLE (ASSEM.)
120986 CABLE (ASSEM.)
(SEE 2613WD.)





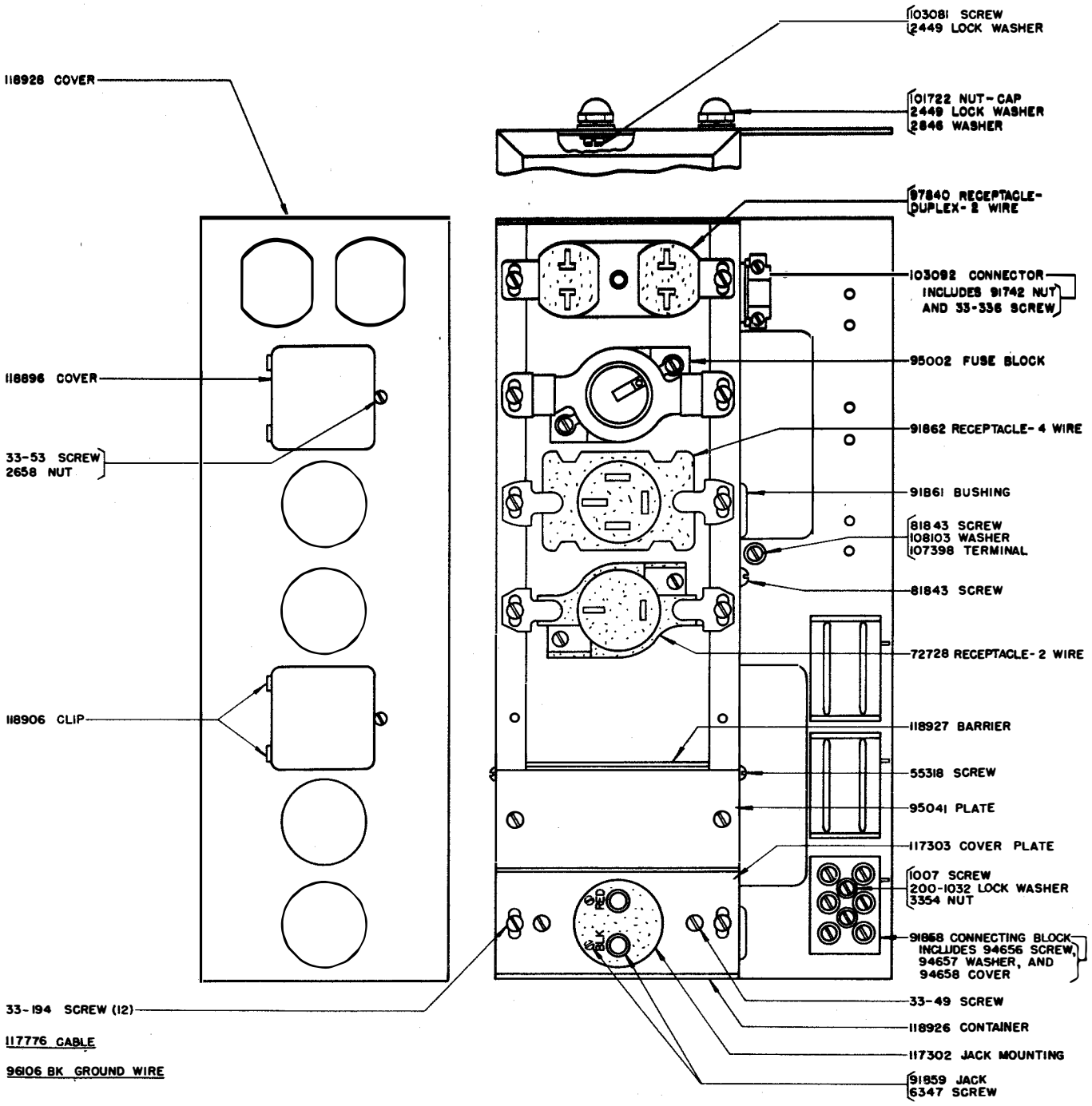
120981 ELECTRICAL SERVICE ASSEMBLY

TELETYPE CORPORATION
CHICAGO, ILLINOIS, U.S.A.

EE-655
ISSUE 1
NOVEMBER, 1948

CHANGES AND ADDITIONS TO BULLETIN NO. 1077 (ISSUE 3) PARTS- TABLES

PARTS ORDERING INFORMATION FOR THE 117852 ELECTRICAL SERVICE UNIT



CHANGES AND ADDITIONS
BULLETIN NO. 1077 (ISSUE 3)
PARTS - TABLES

THE INFORMATION CONTAINED IN THIS CORRECTION SHEET APPLIES TO TABLES USED FOR SHIPBOARD OPERATION ONLY

This correction sheet covers parts ordering information for the XRT119 and XRT114 metal tables.

The XRT119 table (for use with Model 15 printer set) is finished in black wrinkle, equipped with lord mountings and has angle iron brackets welded to each of the four legs for deck mounting.

The XRT114 table (for use with 19 type set) is finished in black wrinkle, equipped with lord mountings and has angle irons welded to inner left and right sides between the front and rear legs for deck mounting.

XRT119 Table

Pages 1 and 2

The following ordering information should be substituted for that shown on pages 1 and 2:

The following parts constitute the rubber printer mountings:

104018	Lord Mounting	
1187	Mounting Screw (for 104018)	Top
2669	Lock Washer (for 1187)	Top
104017	Spacer (for 104018)	
2669	Lock Washer (for 1187)	Bottom
34-4	Nut (for 1187)	Bottom

The following parts are used in conjunction with the rubber mountings:

102809	Stud (Mounts in 103163)	See EE-442
83814	Spacer Washer (Between 103163 and 73175)	See EE-442
73175	Lock Washer (Between 83814 and 102809)	See EE-442
103377	Washer - Large	for 102809 (Bottom)
2920	Lock Washer	for 102809 (Bottom)
85595	Nut	for 102809 (Bottom)

The following is a list of miscellaneous parts that are mounted on the top of the table:

103167	Pad - Felt	
104057	Cover Holding Bracket	
104059	Spacer Block	for 104057
78301	Mounting Screw	for 104057
2669	Lock Washer	for 104057

All of the electrical service parts are housed in a metal container which may be ordered as 105014 Electrical Service (Assem.) and is illustrated on page 4 of this correction sheet.

The XRT119 table is wired in accordance with wiring diagram W.D.-2146.

XRT114 Table

Page 11

The following parts constitute the rubber printer mountings:

99908	Lord Mounting	
1187	Mounting Screw (for 99908)	Top
2669	Lock Washer (for 1187)	Top
104017	Spacer (for 99908)	
2669	Lock Washer (for 1187))	Bottom
34-4	Nut (for 1187)	Bottom

The following parts are used in conjunction with the rubber mountings:

102809	Stud (Mounts in 103163)	See EE-442
83814	Spacer Washer (Between 103163 and 73175)	See EE-442
73175	Lock Washer (Between 83814 and 102809)	See EE-442
103377	Washer - Large	for 102809 (Bottom)
2920	Lock Washer	for 102809 (Bottom)
85595	Nut	for 102809 (Bottom)

Following is a list of miscellaneous parts that are mounted on the top of the table:

99964	Pad - Felt (For perforator transmitter)	
104057	Cover Holding Bracket	
104059	Spacer Block	for 104057
78301	Mounting Screw	for 104057
2669	Lock Washer	for 104057

The 84103 mounting plate (assem.) has been replaced by a 104035 mounting plate (assem.).

(See note under heading "Page 13" for details.)

The 92765 mounting plate pad has been replaced by a 104032 mounting plate pad.

Page 12

Two 95005 resistors (2500 ohms each) have been added in back of the 91859 "line jack". Each resistor is mounted by means of a 92271 screw, 2191 lockwasher, 76099 washer and three 75750 washer - bakelite.

A 103287 fusetron (1.25 amp.) and a 103288 fusetron (1.40 amp.) are furnished with the table. For proper usage of these fusetrons refer to wiring diagram W.D.-2161.

A 105855 terminal strip (with terminal screws) has been added at each end of the three short terminal blocks. These terminal strips are mounted in a vertical position on the upper and lower terminal blocks by means of 73235 screws (replacing 1169 screws) 2191 lock washers and 200-148 spacers.

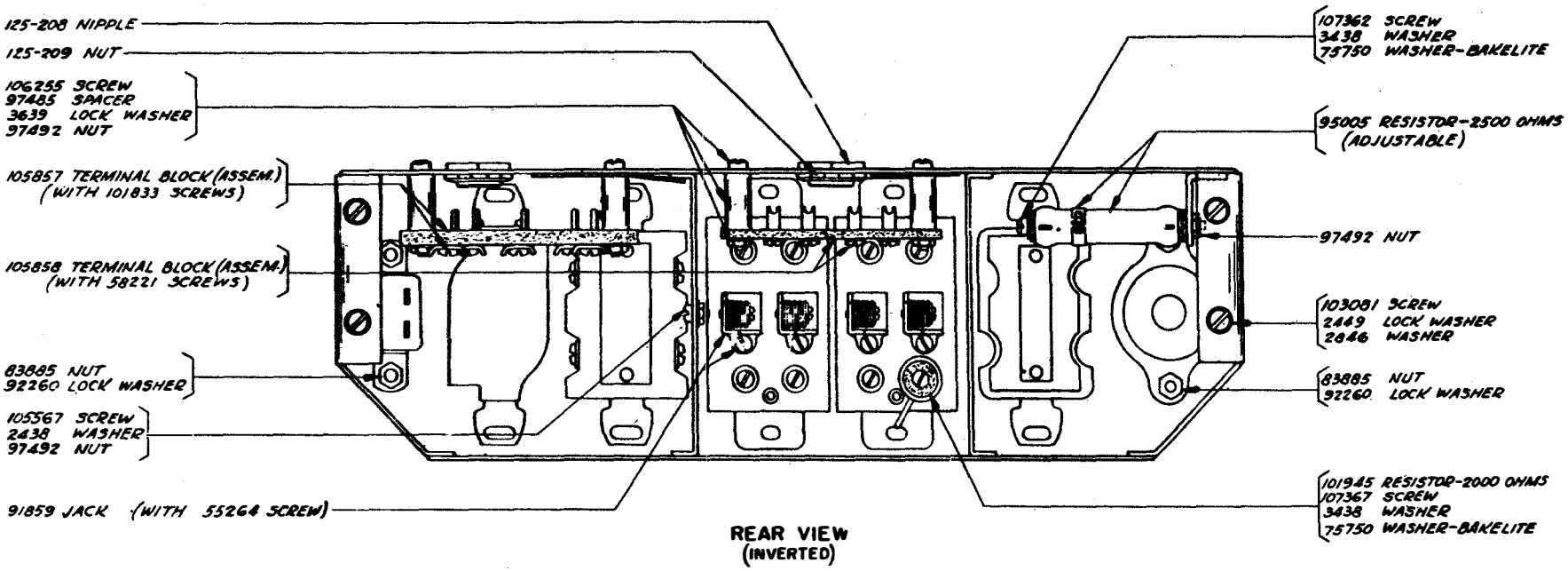
The following parts have been added above the three receptacles illustrated in the lower right hand side of the table:

105206	Plug (4 prong)		1
1176	Screw	)	2
2191	Lock washer	) for 105206	2
105205	Bracket (for 105206)		1
33-4	Screw	)	4
2191	Lock washer	) for 105205	4
7002	Washer	)	4
105391	Knife Switch - 4P.D.T.		1
80757	Screw	)	2
2669	Lock washer	) for 105391	2
34-58	Nut	)	2

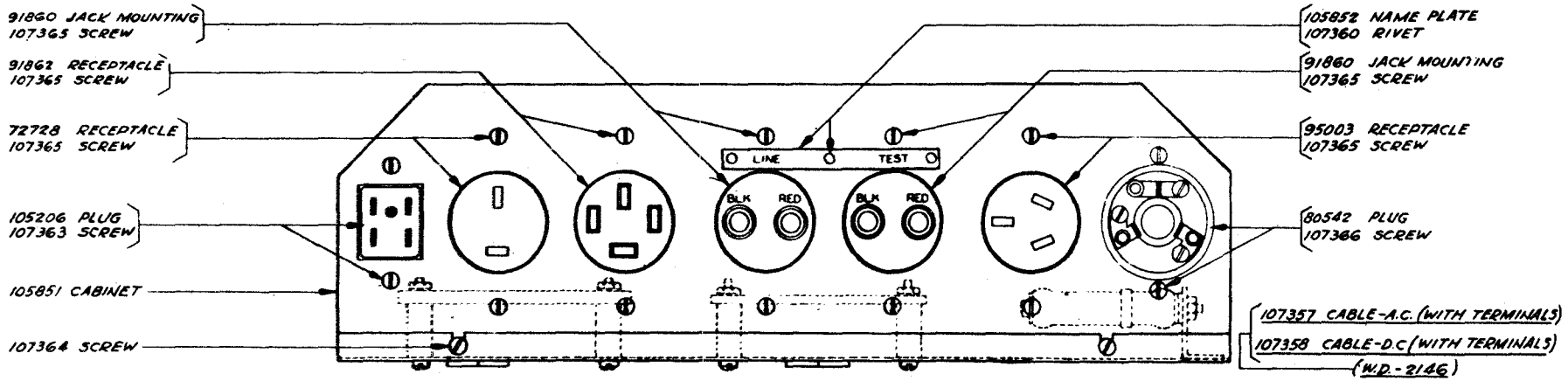
Page 13

The 84103 mounting plate (assem.) has been replaced by a 104035 mounting plate (assem.) and differs in that a 104033 mounting plate, which has a clearance hole for a 110422 thumb screw and 110727 retaining ring (not included in 104035) is used in place of the 77597 mounting plate. Two guards have been added under the 77625 slip connection guard and may be ordered as 105187 guard - left and 105188 guard - right.

The XRT114 table is wired in accordance with wiring diagrams W.D.-2161 and W.D.-2162.



REAR VIEW
(INVERTED)



FRONT VIEW

105014 ELECTRICAL SERVICE (ASSEM.)-BLACK WRINKLE
(PART OF XRT119 TABLE)

CHANGES AND ADDITIONS
BULLETIN NO. 1077 (ISSUE 3)
PARTS - TABLE

This correction sheet covers parts ordering information for the Model 15 or 26 send-receiving printer metal table (XRT-115) having all the electrical service parts housed in a metal container on the underside of the table.

Also covered herein is parts ordering information for the 19 type set metal table (XRT-116) designed for use with multi-voltage, multi-frequency rectifiers.

Pages 1 and 2

XRT-115 is a metal table (black wrinkle), without the "Lord Mounting" features, designed to mount either a Model 15 or 26 send-receiving printer. This table is similar to the one illustrated on pages 1 and 2, but differs in that all the electrical service parts shown on the underside of the table are mounted in a metal container. This container, and all the parts mounted therein, are shown in the 105014 electrical service (Assem.) shown on page 3 of this correction sheet.

The XRT-115 table consists of one table, one 105014 electrical service (Assem.), one 91863 pad and four 91095 feet. For wiring data, see wiring diagram W.D.-2146.

Pages 11 and 12

XRT-116 is a metal table (black wrinkle) without the "Lord Mounting" features, designed to mount a 19 type set. This table is similar to the one illustrated on pages 11 and 12, plus the additional parts listed below:

	(95005	Resistor (2500 ohms)		2
	(92271	Screw	)	2
A	(76099	Washer (Steel)	)	2
	(75750	Washer (Bakelite)	) For 95005	10
	(2191	Lock Washer	)	2
	(105855	Terminal Strip		2
B	(200-148	Spacer	)	4
	(73235	Screw	) For 105855	4
	(105205	Plug Mounting Bracket		1
	(33-4	Screw	)	4
	(7002	Washer	) For 105205	4
	(2191	Lock Washer	)	4
C	(105206	Plug - 4 Prong		1
	(1176	Screw	)	2
	(2191	Lock Washer	) For 105206	2
	(105391	Knife Switch - 4 P.D.T.		1

C	(80757	Screw	)	2
	(2669	Lock Washer	) For 105391	2
	(34-58	Nut	)	2
	(106067	Connector (with terminals)		2
	(103287	Fusetron (1.25 amp.)		1
D	(103288	Fusetron (1.40 amp.)		1
	(105387	Cable		1
	(105392	Cable		1
	(105393	Cable		1

(A) Parts in Group A are mounted behind the "line jack" mounting panel.

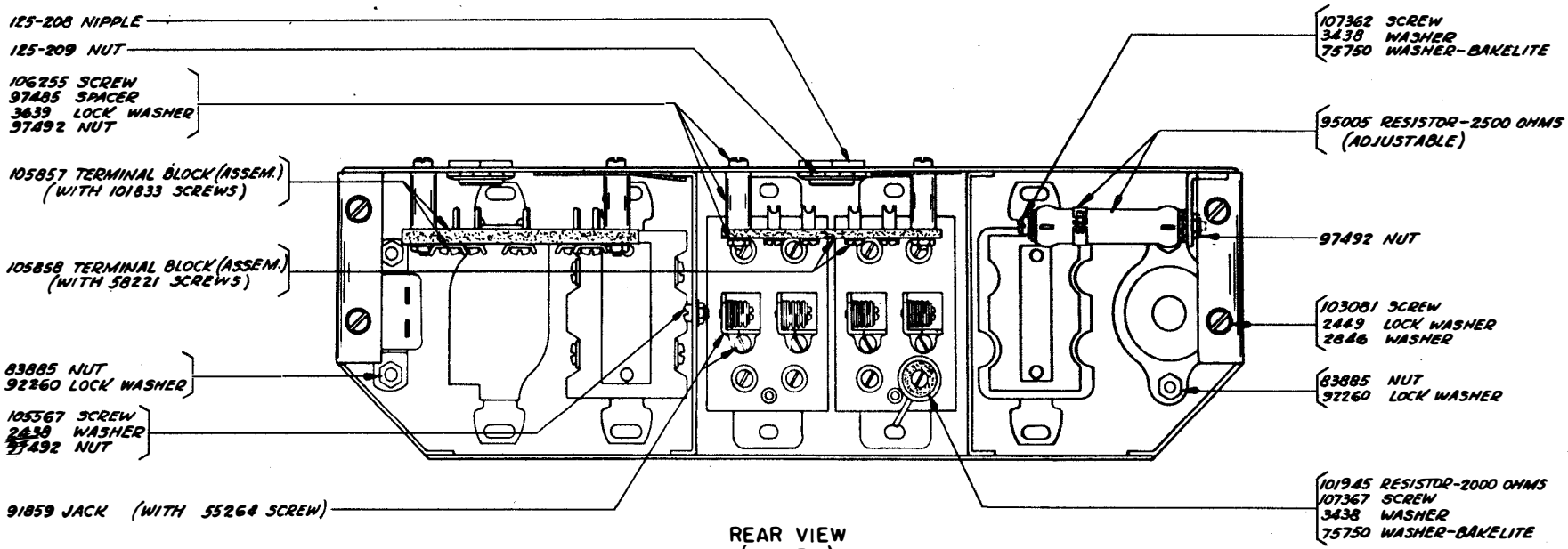
(B) Parts in Group B are mounted on top of the three short terminal blocks.

(C) Parts in Group C are mounted between the two long terminal blocks and the three lower receptacles.

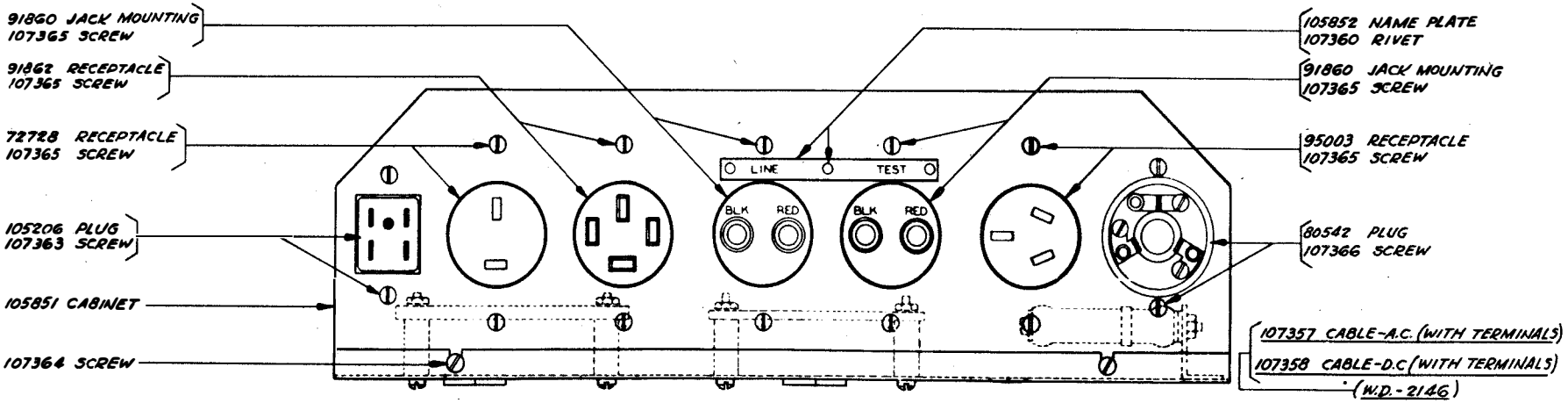
(D) For location of parts in Group D refer to wiring diagrams W.D.-2161 and W.D.-2162.

Page 13

Two guards have been added under the 77625 slip connection guard of the 84103 mounting plate (Assem.). These two guards may be ordered as 105187 Guard - left and 105188 guard - right.



REAR VIEW
(INVERTED)



FRONT VIEW

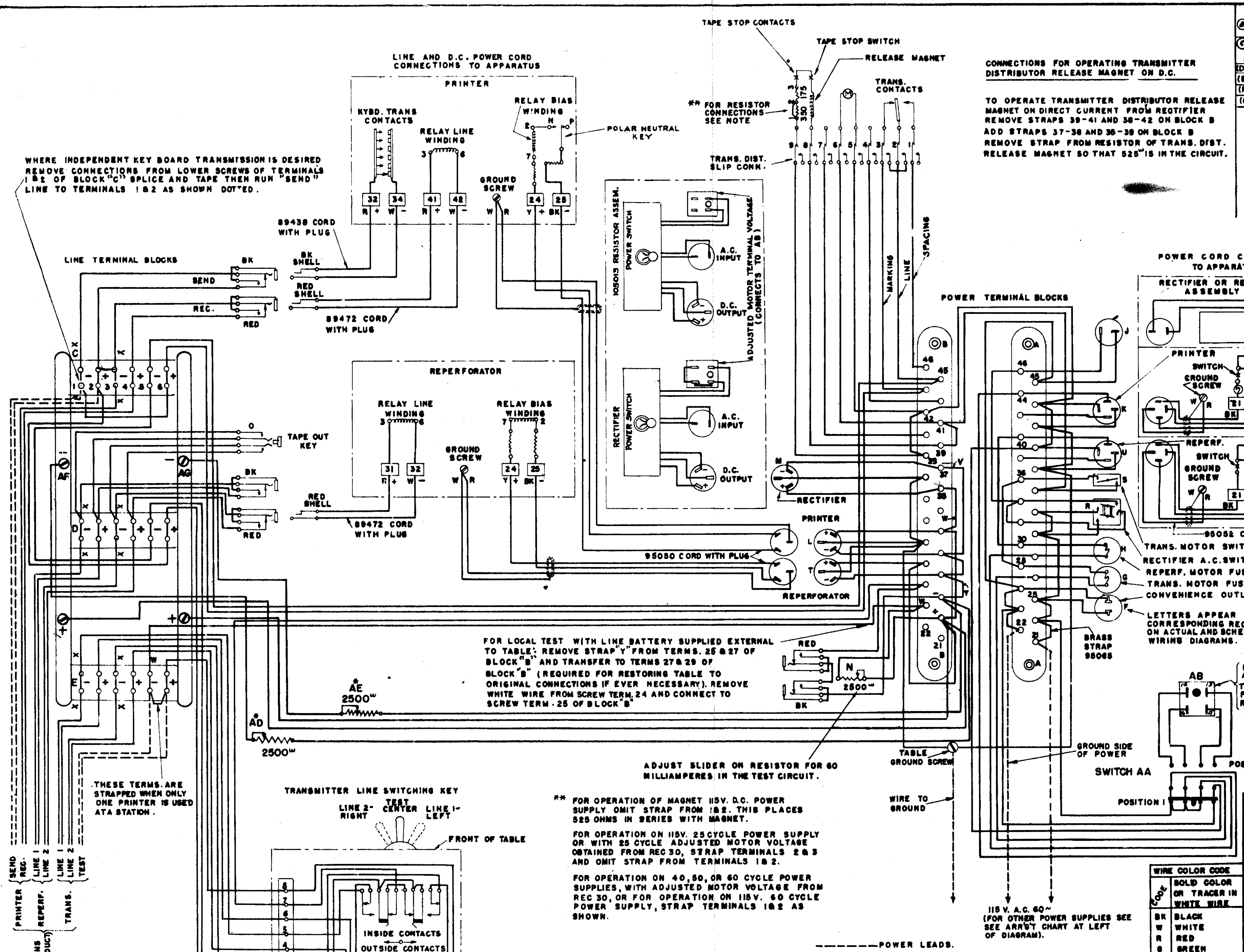
105014 ELECTRICAL SERVICE (ASSEM.) - BLACK WRINKLE
(PART OF XRT115 TABLE)

TABLE CONNECTION INSTRUCTIONS

(THIS TABULATION COVERS USE OF THE XRT 116 TABLE WITH POWER SUPPLIES OF VARIOUS VOLTAGES & FREQUENCIES)
NOTE: WIRING SHOWN TO THE RIGHT IS TO BE USED AS A STARTING POINT IN MAKING CONNECTIONS TABULATED BELOW.

TYPE OF MOTOR	POWER SUPPLY	POWER ACCESSORY	INSTRUCTIONS	ARR. GT. NO.
110 V. A.C. 60 CYCLES SYNCHRONOUS	115 V.A.C. REGULATED 60 CYCLES ONLY	REC.—13 RECTIFIER	THROW SWITCH AA DOWN TO POSITION 1. CONNECT A.C. POWER LEADS AS SHOWN.	1
	115 V.A.C. REGULATED 60 CYCLES AND 115 V.D.C.	NONE REQUIRED	THROW SWITCH AA DOWN TO POSITION 1. CONNECT A.C. POWER LEADS AS SHOWN. MOVE UPPER END OF STRAP V ON BLOCK B FROM TERMINAL 37 TO 22, AND MOVE UPPER END OF STRAP W FROM TERMINAL 35 TO 21. CONNECT 115V. D.C. POWER LEADS TO TERMINALS 21 AND 22 ON BLOCK B, PLUS - TO BE CONNECTED TO TERMINAL 21; MINUS - TO BE CONNECTED TO TERMINAL 22.	2
	90 TO 130 V. A.C. OR 180 TO 260V. A.C. REGULATED 60 CYCLES ONLY	REC.—30 RECTIFIER	THROW SWITCH AA UP TO POSITION 2. OPEN RECTIFIER DOOR AND CONNECT VOLTAGE TERMINAL WIRE TO TAP NEAREST VOLTAGE OF POWER SOURCE, AND CONNECT FREQUENCY TERMINAL WIRE TO THE 60 CYCLE TAP. SPECIFICATION S-5367, WHICH IS SUPPLIED WITH THE RECTIFIER, CONTAINS A MORE DETAILED DESCRIPTION OF THE TERMINAL ARRANGEMENT PROVIDED ON THE RECTIFIER. CONNECT A.C. POWER LEADS AS SHOWN.	3
110 V. 60 CYCLES A.C. SERIES GOVERNED	90 TO 130V. A.C. OR 180 TO 260V. A.C. 25, 40, 50 60 CYCLES.	REC.—30 RECTIFIER	THROW SWITCH AA UP TO POSITION 2. OPEN RECTIFIER DOOR AND CONNECT THE VOLTAGE TERMINAL WIRE TO THE TAP NEAREST THE VOLTAGE OF THE POWER SOURCE, AND CONNECT THE FREQUENCY TERMINAL WIRE TO THE TAP NEAREST TO THE FREQUENCY OF THE SOURCE. SPECIFICATION S-5367, WHICH IS SUPPLIED WITH THE RECTIFIER, CONTAINS A MORE DETAILED DESCRIPTION OF THE TERMINAL ARRANGEMENT PROVIDED ON THE RECTIFIER. CONNECT A.C. POWER LEADS AS SHOWN.	4
	115 V. A.C. REGULATED 60 CYCLES ONLY	REC.—13 RECTIFIER	CONNECTIONS ARE SAME AS FOR ARRANGEMENT 1.	5
	115V. A.C. REGULATED 60 CYCLES AND 115 V.D.C.	NONE REQUIRED	CONNECTIONS ARE SAME AS FOR ARRANGEMENT 2.	6
110 V. D.C. SHUNT	115 V. D.C. — GRD. + UNGRD.	NONE REQUIRED	THROW SWITCH AA DOWN TO POSITION 1. CONNECT 115V. D.C. POWER LEADS TO TERMINALS 21 AND 22. ON BLOCK A, + TO 21 AND — TO 22. MOVE UPPER END OF STRAP V FROM 37 ON BLOCK B TO 22 ON BLOCK A, AND MOVE UPPER END OF STRAP W FROM 35 ON BLOCK B TO 21 ON BLOCK A.	7
	115 V. D.C. + GRD. — UNGRD.	NONE REQUIRED	THROW SWITCH AA DOWN TO POSITION 1. CONNECT 115V. D.C. POWER LEADS TO TERMINALS 21 AND 22 ON BLOCK A, — TO 21 AND + TO 22. MOVE UPPER END OF STRAP V FROM 37 ON BLOCK B TO 21 ON BLOCK A, AND MOVE UPPER END OF STRAP W FROM 35 ON BLOCK B TO 22 ON BLOCK A.	8

57243 603



FOR LOCAL TEST WITH LINE BATTERY SUPPLIED EXTERNAL TO TABLE: REMOVE STRAP "Y" FROM TERMS. 25 & 27 OF BLOCK "B" AND TRANSFER TO TERMS 27 & 29 OF BLOCK "B" (REQUIRED FOR RESTORING TABLE TO ORIGINAL CONNECTIONS IF EVER NECESSARY). REMOVE WHITE WIRE FROM SCREW TERM. 24 AND CONNECT TO SCREW TERM. 25 OF BLOCK "B"

** FOR RESISTOR CONNECTIONS SEE NOTE

** FOR OPERATION OF MAGNET 115V. D.C. POWER SUPPLY OMIT STRAP FROM 1 & 2. THIS PLACES 525 OHMS IN SERIES WITH MAGNET.

FOR OPERATION ON 115V. 25 CYCLE POWER SUPPLY OR WITH 25 CYCLE ADJUSTED MOTOR VOLTAGE OBTAINED FROM REC 30, STRAP TERMINALS 2 & 3 AND OMIT STRAP FROM TERMINALS 1 & 2.

FOR OPERATION ON 40, 50, OR 60 CYCLE POWER SUPPLIES, WITH ADJUSTED MOTOR VOLTAGE FROM REC 30, OR FOR OPERATION ON 115 V. 60 CYCLE POWER SUPPLY, STRAP TERMINALS 1 & 2 AS SHOWN.

CONNECTIONS FOR OPERATING TRANSMITTER DISTRIBUTOR RELEASE MAGNET ON D.C.

TO OPERATE TRANSMITTER DISTRIBUTOR RELEASE MAGNET ON DIRECT CURRENT FROM RECTIFIER REMOVE STRAPS 39-41 AND 38-42 ON BLOCK B
ADD STRAPS 37-38 AND 35-39 ON BLOCK B
REMOVE STRAP FROM RESISTOR OF TRANS. DIST. RELEASE MAGNET SO THAT 525 Ω IS IN THE CIRCUIT.

*NOTE:

TO INSERT BATTERY IN ANY ONE OF THE LINES ENTERING THE TABLE PROCEED AS FOLLOWS:
REMOVE THE TWO WIRES (MARKED X) OF ANY DESIRED LINE FROM THEIR RESPECTIVE TERMINALS ON BLOCKS C, D, OR E.

CONNECT THE WIRE REMOVED FROM THE UPPER TERMINAL OF BLOCKS C, D, OR E TO THE NEGATIVE TERMINAL (UPPER) OF CONNECTION STRIP AF. CONNECT THE WIRE REMOVED FROM THE LOWER TERMINAL OF BLOCKS C, D, OR E, TO THE POSITIVE TERMINAL (LOWER) OF CONNECTION STRIP AF. ADJUST THE 2500 OHM RESISTOR AD TO PROVIDE A LINE CURRENT OF 60 MILLIAMPERES.

IF IT IS DESIRED TO PROVIDE LINE BATTERY IN A SECOND LINE, THE SAME PROCEDURE MAY BE APPLIED, USING CONNECTION STRIP AG, AND RESISTOR AE.

EQUIPMENT	LOCATION OF FUSETRON	RECOMMENDED FUSETRON PROTECTION — MOTOR DRIVE: 110V. A.C. 50-60 SYNCHRONOUS	110V. A.C. 60 CYCLES SERIES GOVERNED	110V. D.C. GOVERNED
PRINTER	ON PTR. BASE	3.2 AMPERES	1.60 AMPERES	.8 AMPERES
TRANS. DIST.	G	3.2 AMPERES	1.25 AMPERES	.6 AMPERES
REPERFORATOR	H	3.2 AMPERES	1.40 AMPERES	.6 AMPERES

------ POWER LEADS.
—— TABLE WIRING INCLUDING CORDS.
(shielded symbol) DENOTES SHIELDED CABLE ON CORD

RECEPTACLES AND PLUGS SHOWN FROM SLOT AND PRONG FACES

FOR ACTUAL WIRING DIAGRAM SEE W.D. 2162

WIRE COLOR CODE	
CODE	SOLID COLOR OR TRACER IN WHITE WIRE
BK	BLACK
W	WHITE
R	RED
G	GREEN
Y	YELLOW
B	BLUE

REVISIONS

(B) NOTES CLARIFIED. 6-19-43 J.J.F.
(C) LOCAL LINE BATTERY CONNECTIONS CORREC-TED. 6-19-43 J.J.F.
(D) 3-13-44 33694
(E) 9-5-44 35512
(F) 11-28-44 36252
(G) 12-19-47 43491

TELETYPE CORPORATION

W.D. 2161-G
4-26-43

SCHEMATIC WIRING DIAGRAM MODEL 19 TABLE XRT 114, 116, 124, 202

DRAWN } N.O.S.
TRACED }
CHECKED
ENG'R'D.
APPROVED M.T.G.

ASSOCIATED CABLES		
95054	CABLE	A.C
95055	CABLE	D.C
95056	CABLE	A.C
95057	CABLE	D.C
95058	CABLE	D.C
95059	CABLE	A.C
95060	CABLE	D.C
95061	CABLE	D.C
95062	CABLE	D.C
105367	CABLE	D.C
105392	CABLE	A.C
105393	CABLE	A.C

WIRE COLOR CODE	
CODE	SOLID COLOR OR TRACER IN WHITE WIRE
BK	BLACK
W	WHITE
R	RED
G	GREEN
O	ORANGE
BL	BLUE

ALL WIRES ARE BLACK UNLESS OTHERWISE DESIGNATED

REVISIONS	
(6)12-19-47	43491

SWITCHING KEY

TAPE OUT KEY

FRONT OF TABLE

SWITCHES ARE "ON" WHEN HANDLES ARE POINTING TOWARD FRONT OF TABLE.

95060 CABLE (D.C)

TRANS. DIST. SLIP CONN.

THESE 2 WIRES #14
7 OTHERS #18

95059 CABLE(A.C)

95061 CABLE (D.C)

LETTERS APPEAR OPPOSITE CORRESPONDING RECEPTACLES ON ACTUAL AND SCHEMATIC WIRING DIAGRAMS.

ADJUST SLIDER ON RESISTOR TO 2000 ±10 %

4-#18 WIRES

POWER CONNECTION BLOCKS

OUTLETS FOR PRINTER AND RECTIFIER

PRINTER

PRINTER

TAPE ENDS

LINE CONNECTION BLOCK

9-#14 INSULATED WIRES

105367 CABLE (D.C)

BRASS STRAP 95065

TABLE GROUND SCREW

105367 CABLE (D.C)

STRAPS "V" & "W" SHOULD BE LONG ENOUGH TO REACH BETWEEN ANY TWO TERMINALS ON EITHER BLOCK.

THIS END OF WIRE TO BE EQUIPPED WITH 82474 TERMINAL AND TERMINATED UNDER SCREW.

95062 CABLE(D.C)

95054 CABLE (A.C)

95055 CABLE (D.C)

95057 CABLE(D.C)

95056 CABLE(A.C)

105392 CABLE (A.C)

95056 CABLE(D.C)

105393 CABLE(A.C)

OUTLETS FOR REPERFORATOR

——— TABLE WIRING INCLUDING WIRES SOLDERED TO REAR OF BLOCKS "A" AND "B".

- - - - CROSS CONNECTIONS BETWEEN SCREW TERMINALS ON BLOCKS "A" AND "B" USE #14 BLACK WIRE.

DENOTES WIRES IN BX.

DENOTES WIRES IN CABLE.

STRAPS ON LINE CONNECTION BLOCKS ARE BLACK #18 INSULATED WIRE.

RECEPTACLES AND PLUGS SHOWN FROM SLOT AND PRONG FACES.

WIRES ON TERMINAL BLOCKS AF AND AG ARE SOLDERED TO LUG ON BACK OF TERMINALS.

TELETYPE CORPORATION

WD 2162-G

ACTUAL WIRING DIAGRAM FOR MODEL 19 TABLE XRT 114,116, 124, 202

DRAWN L.M.G
TRACED W.M.S
CHECKED
ENGR'D.
APPROVED

TABLE CONNECTION INSTRUCTIONS

(THIS TABULATION COVERS USE OF THE XRT 116 TABLE WITH POWER SUPPLIES OF VARIOUS VOLTAGES & FREQUENCIES)
NOTE: WIRING SHOWN TO THE RIGHT IS TO BE USED AS A STARTING POINT IN MAKING CONNECTIONS TABULATED BELOW.

TYPE OF MOTOR	POWER SUPPLY	POWER ACCESSORY	INSTRUCTIONS	ARR. GT. NO.
110 V. A.C. 60 CYCLES SYNCHRONOUS	115 V.A.C. REGULATED 60 CYCLES ONLY	REC.—13 RECTIFIER	THROW SWITCH AA DOWN TO POSITION 1. CONNECT A.C. POWER LEADS AS SHOWN.	1
	115 V. A.C. REGULATED 60 CYCLES AND 115 V. D.C.	NONE REQUIRED	THROW SWITCH AA DOWN TO POSITION 1. CONNECT A.C. POWER LEADS AS SHOWN. MOVE UPPER END OF STRAP V ON BLOCK B FROM TERMINAL 37 TO 22, AND MOVE UPPER END OF STRAP W FROM TERMINAL 35 TO 21. CONNECT 115V. D.C. POWER LEADS TO TERMINALS 21 AND 22 ON BLOCK B, PLUS - TO BE CONNECTED TO TERMINAL 21; MINUS - TO BE CONNECTED TO TERMINAL 22.	2
	90 TO 130 V. A.C. OR 180 TO 260V. A.C. REGULATED 60 CYCLES ONLY	REC.—30 RECTIFIER	THROW SWITCH AA UP TO POSITION 2. OPEN RECTIFIER DOOR AND CONNECT VOLTAGE TERMINAL WIRE TO TAP NEAREST VOLTAGE OF POWER SOURCE, AND CONNECT FREQUENCY TERMINAL WIRE TO THE 60 CYCLE TAP. SPECIFICATION S-5367, WHICH IS SUPPLIED WITH THE RECTIFIER, CONTAINS A MORE DETAILED DESCRIPTION OF THE TERMINAL ARRANGEMENT PROVIDED ON THE RECTIFIER. CONNECT A.C. POWER LEADS AS SHOWN.	3
110 V. 60 CYCLES A.C. SERIES GOVERNED	90 TO 130V. A.C. OR 180 TO 260V. A.C. 25, 40, 50 60 CYCLES.	REC.—30 RECTIFIER	THROW SWITCH AA UP TO POSITION 2. OPEN RECTIFIER DOOR AND CONNECT THE VOLTAGE TERMINAL WIRE TO THE TAP NEAREST THE VOLTAGE OF THE POWER SOURCE, AND CONNECT THE FREQUENCY TERMINAL WIRE TO THE TAP NEAREST TO THE FREQUENCY OF THE SOURCE. SPECIFICATION S-5367, WHICH IS SUPPLIED WITH THE RECTIFIER, CONTAINS A MORE DETAILED DESCRIPTION OF THE TERMINAL ARRANGEMENT PROVIDED ON THE RECTIFIER. CONNECT A.C. POWER LEADS AS SHOWN.	4
	115 V. A.C. REGULATED 60 CYCLES ONLY	REC.—13 RECTIFIER	CONNECTIONS ARE SAME AS FOR ARRANGEMENT 1.	5
	115 V. A.C. REGULATED 60 CYCLES AND 115 V. D.C.	NONE REQUIRED	CONNECTIONS ARE SAME AS FOR ARRANGEMENT 2.	6
110 V. D.C SHUNT	115 V. D.C. — GRD. + UNGRD.	NONE REQUIRED	THROW SWITCH AA DOWN TO POSITION 1. CONNECT 115V. D.C. POWER LEADS TO TERMINALS 21 AND 22 ON BLOCK A, + TO 21 AND — TO 22. MOVE UPPER END OF STRAP V FROM 37 ON BLOCK B TO 22 ON BLOCK A, AND MOVE UPPER END OF STRAP W FROM 35 ON BLOCK B TO 21 ON BLOCK A.	7
	115 V. D.C. + GRD. — UNGRD.	NONE REQUIRED	THROW SWITCH AA DOWN TO POSITION 1. CONNECT 115V. D.C. POWER LEADS TO TERMINALS 21 AND 22 ON BLOCK A, — TO 21 AND + TO 22. MOVE UPPER END OF STRAP V FROM 37 ON BLOCK B TO 21 ON BLOCK A, AND MOVE UPPER END OF STRAP W FROM 35 ON BLOCK B TO 22 ON BLOCK A.	8

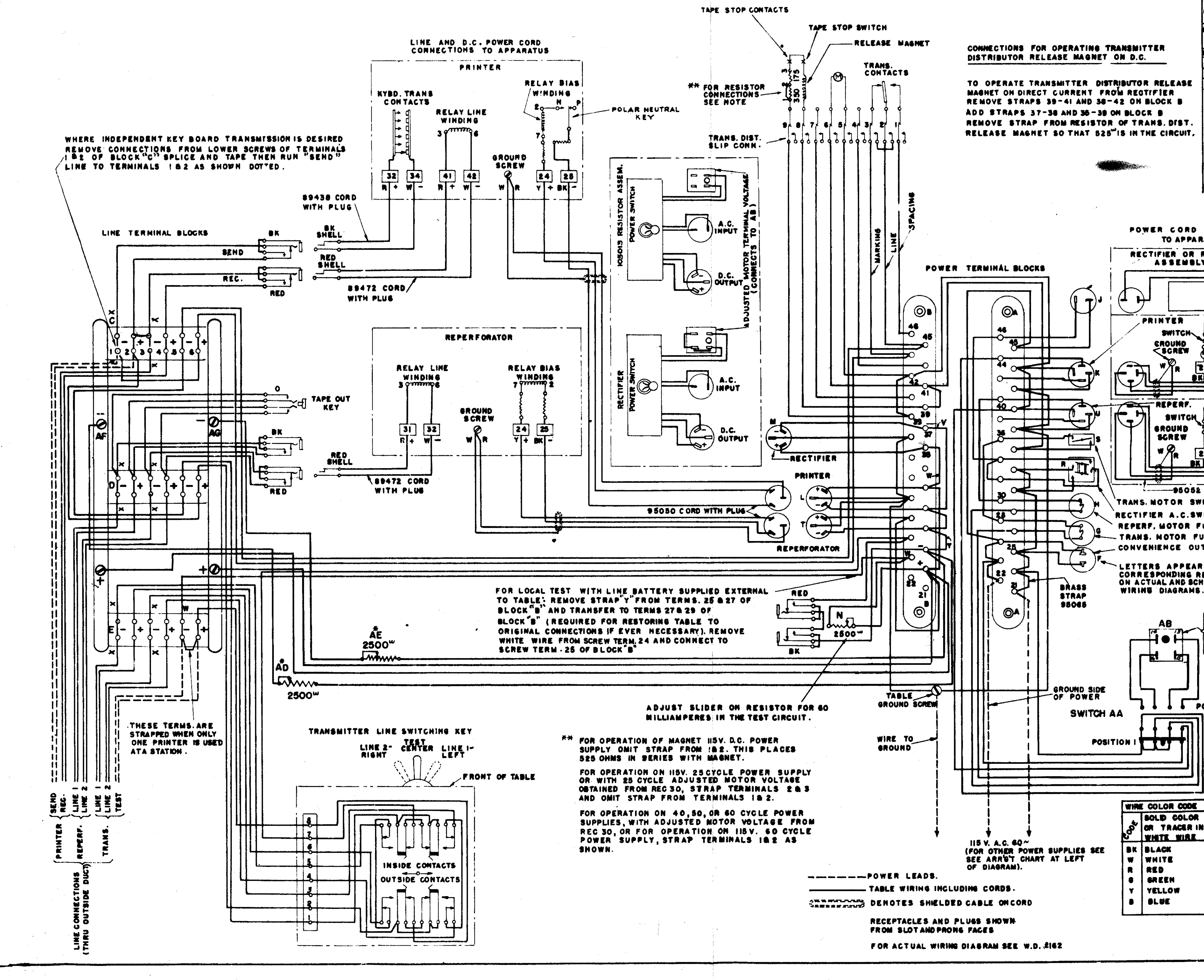
*NOTE:

TO INSERT BATTERY IN ANY ONE OF THE LINES ENTERING THE TABLE PROCEED AS FOLLOWS:
REMOVE THE TWO WIRES (MARKED X) OF ANY DESIRED LINE FROM THEIR RESPECTIVE TERMINALS ON BLOCKS C, D, OR E.

CONNECT THE WIRE REMOVED FROM THE UPPER TERMINAL OF BLOCKS C, D, OR E TO THE NEGATIVE TERMINAL (UPPER) OF CONNECTION STRIP AF. CONNECT THE WIRE REMOVED FROM THE LOWER TERMINAL OF BLOCKS C, D, OR E, TO THE POSITIVE TERMINAL (LOWER) OF CONNECTION STRIP AF. ADJUST THE 2500 OHM RESISTOR AD TO PROVIDE A LINE CURRENT OF 60 MILLIAMPERES.

IF IT IS DESIRED TO PROVIDE LINE BATTERY IN A SECOND LINE, THE SAME PROCEDURE MAY BE APPLIED, USING CONNECTION STRIP AG, AND RESISTOR AE.

EQUIPMENT	LOCATION OF FUSETRON	RECOMMENDED FUSETRON PROTECTION — MOTOR DRIVE: 110V. A.C. 50-60 SYNCHRONOUS	110V. A.C. 60 CYCLES SERIES GOVERNED	110V. D.C. GOVERNED
PRINTER	ON PTR. BASE	3.2 AMPERES	1.60 AMPERES	.8 AMPERES
TRANS. DIST.	G	3.2 AMPERES	1.25 AMPERES	.6 AMPERES
REPERFORATOR	H	3.2 AMPERES	1.40 AMPERES	.6 AMPERES



CONNECTIONS FOR OPERATING TRANSMITTER DISTRIBUTOR RELEASE MAGNET ON D.C.

TO OPERATE TRANSMITTER DISTRIBUTOR RELEASE MAGNET ON DIRECT CURRENT FROM RECTIFIER REMOVE STRAPS 39-41 AND 36-42 ON BLOCK B
ADD STRAPS 37-38 AND 36-39 ON BLOCK B
REMOVE STRAP FROM RESISTOR OF TRANS. DIST. RELEASE MAGNET SO THAT 525 Ω IS IN THE CIRCUIT.

REVISIONS
(B) NOTES CLARIFIED. 6-19-43 J.J.F.
(C) LOCAL LINE BATTERY CONNECTIONS CORREC-TED. 6-19-43 J.J.F.
(D) 3-13-44 33694
(E) 9-5-44 35512
(F) 11-28-44 36252
(G) 12-19-47 43491

WIRE COLOR CODE	
CODE	SOLID COLOR OR TRACER IN WHITE WIRE
BK	BLACK
W	WHITE
R	RED
G	GREEN
Y	YELLOW
B	BLUE

TELETYPE CORPORATION

W.D. 2161-G 4-26-43

SCHEMATIC WIRING DIAGRAM MODEL 19 TABLE XRT 114, 116, 124, 202

DRAWN / TRACED N.O.S
CHECKED [signature]
ENG'R'D. [signature]
APPROVED M.T.G.

67243 603

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

DESCRIPTION, ADJUSTMENTS, AND ORDERING INFORMATION TELETYPE REC-13 RECTIFIER

Description

The REC-13 rectifier is designed to deliver continuously 0.6 ampere at 120 volts D.C. from a 105 to 125 volt 60 cycle A.C. single phase power supply. It consists of an insulated type input transformer with primary taps, a full wave selenium rectifying element, a power factor correction condenser, a filter consisting of a choke and condenser, a bleeder resistor, and a regulator with taps. All parts are secured to a metal base which has rubber feet for shelf mounting. The rectifier is furnished complete with cover, cords, and plugs for making A.C. and D.C. connections.

The metal cover which is fastened to the base by means of screws is finished in black wrinkle enamel.

The approximate dimensions of the rectifier are 20-1/4" long, 8" wide, and 9" high.

Rating

Input: 105 to 125 volt, 60 cycle A.C. single phase.
Output: 0.6 ampere at 120 volts D.C.
A.C. component in D.C. output voltage: 1% r.m.s. at 0.6 ampere load.
No load voltage when new: Not over 135 volts.

Adjustments

CAUTION: The secondary voltage of the power transformer is 300 volts. All the control elements including the power factor correcting condenser are therefore 300 volts above ground potential.

This rectifier is provided with a door in the front of its cover to permit access to two regulating panels within the cover. The left-hand panel has terminals for the transformer primary taps which are marked for input voltages of 105, 115, and 125. A 6 ampere fuse for protecting the transformer is also mounted on this panel. A flexiable lead is used for connecting A.C. to the proper primary tap. The selection of the primary tap will depend on the voltage of the A.C. power supply. In no case should the connection to these taps be changed for the purpose of regulating the D.C. output voltage.

To regulate the D.C. output and to compensate for aging of the rectifying element, three coarse regulator taps marked L, M, and H and five fine regulator taps marked 1, 2, 3, 4, and 5 terminate on the right-hand panel. The regulating taps are set at the factory on "L" and either 1, 2, or 3 to deliver a minimum of 120 volts D.C. at 0.6 ampere. Each fine tap will change the D.C. output voltage approximately two volts and each coarse tap, approximately 8 volts when the D.C. output current is 0.5 ampere. The method normally employed in checking the D.C. output of this rectifier is to disconnect all apparatus from the D.C. side and connect a 60 watt Mazda lamp

in series with a suitable ammeter across the output. For correct adjustment of the output, the flexible leads should be connected to those taps which will cause the ammeter to register a current flow which is nearest to but not less than 0.5 ampere. This adjustment should be checked when the rectifier is installed and periodically thereafter. The amount of aging will be somewhat greater during the first few months of use. After this, the rectifier should operate for long periods without the necessity of readjusting.

If at any time it is necessary to use the maximum regulating tap to obtain the proper output current, the rectifier should be withdrawn from service and repaired.

A 1.25 ampere fusetron is located on the right-hand panel for overload protection in the output circuit.

Wiring diagram W.D. 1959, which forms a part of this specification, shows the actual and theoretical wiring of the rectifier. An assembly drawing giving the names and numbers of the component parts is shown on the last page.

Reason for reissue: To correct the part number of the transformer on the assembly drawing.

REVISIONS

A. CHANGED TO CONFORM TO C.A.A. STANDARDS 2-26-41 J.J.F.

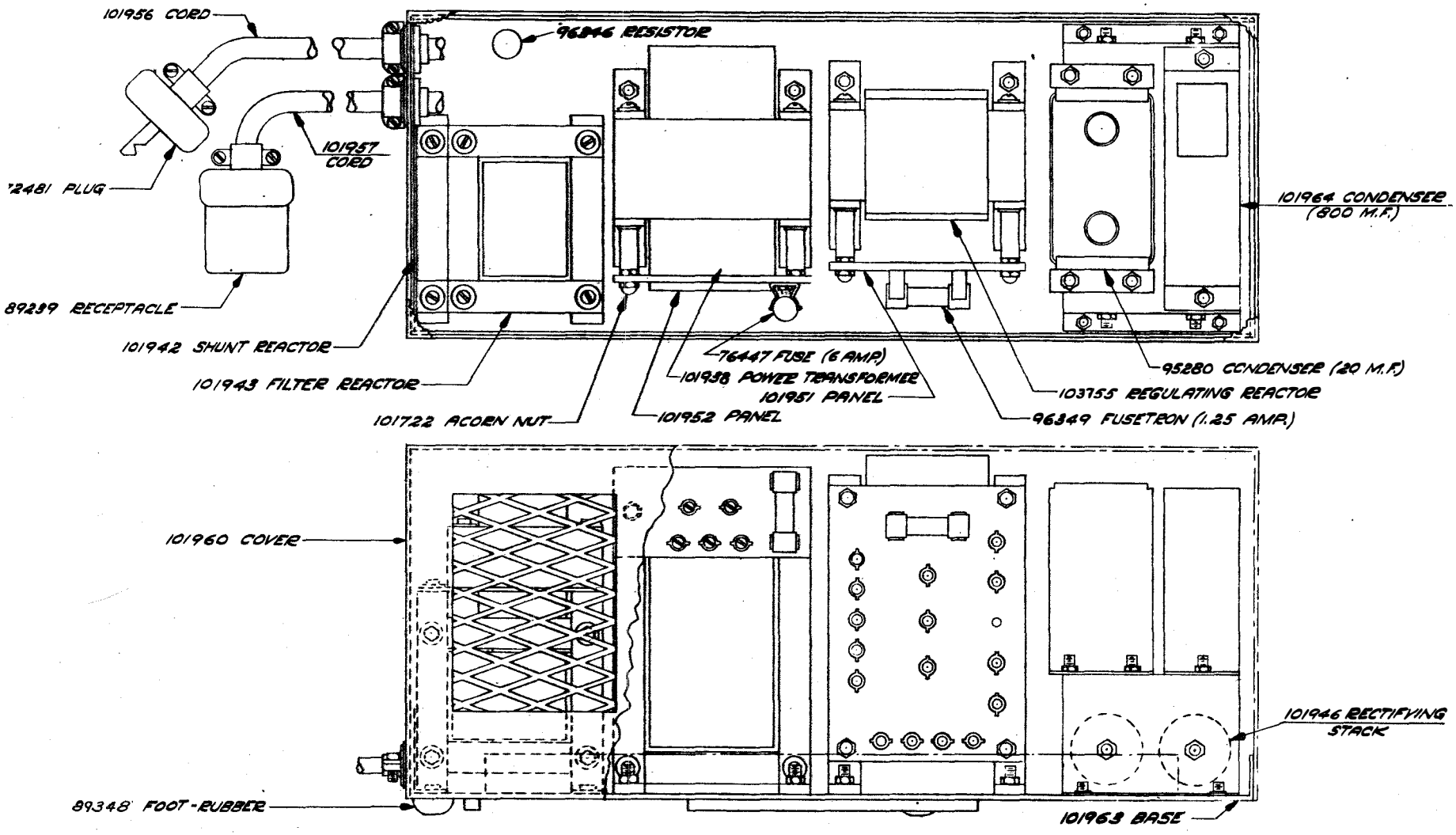
B. CORRECTION IN TRANS. SECONDARY WINDING. 8-7-43 J.J.F.

TELETYPE CORPORATION

WD-1959-B 8-13-40

WIRING DIAGRAM FOR REC-13

DRAWN A.T.B.
TRACED
CHECKED H.J.K.
ENGR'D BM
APPROVED


101956 CORD
96846 RESISTOR
101957 CORD
'2481 PLUG
89239 RECEPTACLE
101942 SHUNT REACTOR
101943 FILTER REACTOR
101722 ACORN NUT
101952 PANEL
76447 FUSE (6 AMP.)
101938 POWER TRANSFORMER
101951 PANEL
103755 REGULATING REACTOR
96349 FUSETRON (1.25 AMP.)
95280 CONDENSER (20 M.F.)
101964 CONDENSER (800 M.F.)
101960 COVER
89348 FOOT-RUBBER
101946 RECTIFYING STACK
101963 BASE

DESCRIPTION, ADJUSTING AND ORDERING INFORMATION
TELETYPE MODEL REC-30 RECTIFIER

(For Multi-Voltage Multi-Frequency Operation)

DESCRIPTION

The Model REC-30 rectifier power unit is designed to provide filtered direct current suitable for the operation of Teletype signal circuits and to provide the proper A.C. voltage for the operation of series governed motors, when connected to A.C. sources of various voltages and frequencies. The input requirements and the output rating are as follows:

Input: 95, 105, 115, 125, 190, 210, 230, or 250 volts, 25, 40, 50, or 60 cycles, single phase A.C.

Output: 0.9 amperes at 120 volts D.C. (No load voltage not to exceed 130 volts.)

Also

A.C. at suitable voltage for the operation of three series governed motors at frequencies of 25, 40, 50 or 60 cycles.

The power unit consists essentially of an auto-transformer, necessary control and filament windings for the operation of the grid control rectifier network, an insulating type plate transformer, suitable radio interference filters on both A.C. input and D.C. output circuits, D.C. output filter consisting of a choke and two condensers, resistor network, two grid controlled rectifier tubes, one voltage standard tube, and one amplifier tube. All of these parts are secured to a metal base which has metal feet for shelf mounting.

The power unit is designed for use in tropical climates and is furnished complete with cover, terminal panels, and cords and plugs for making A.C. input, A.C. output for series governed motors and D.C. output connections.

The case is finished in black baked wrinkle enamel.

The approximate dimensions of the power unit are 25" long, 8" wide and 11" high. The approximate net weight is 110 lbs.

Double Pole Power Switch

The double pole power switch, when thrown in the "OFF" position, completely isolates the fuses and flexible leads from the A.C. supply.

CAUTION: Throw switch to "OFF" position before opening hinged door of rectifier cover.

*Same as issue 3 except changes in Wiring Diagram and assembly drawing.

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Any terminal on the main terminal panel may be 250 volts above ground potential with switch in the "ON" position.

Main Terminal Panel

The main terminal panel, which is located directly behind the hinged door in the cover, contains terminals for A.C. input taps, A.C. output taps, fuses and potentiometer. The A.C. input taps for the line voltages of 95, 105, 115, 125, 190, 210, 230 and 250 volts are located on the top and left-hand side of the panel. The A.C. output taps to proper adjusted voltage for operating series governed motors on frequencies of 25, 40, 50 or 60 cycles are located on the right-hand side of the panel.

Cord and Condenser Terminal Panel

The A.C. input, A.C. output and D.C. output cords and two filter condensers terminate on a panel at the left-front of the rectifier. The cover must be removed to gain access to this panel.

ADJUSTMENTS

Throw the power switch to the "OFF" position and open the hinged door of cover.

CAUTION: The secondary voltage of the transformer is 400 volts. Do not make any adjustments or change any tubes while the unit is in operation.

1. To adjust for A.C. input voltage, connect the flexible lead on the left-hand and top side of the panel to the terminal with the marking which most nearly corresponds to the voltage of the available A.C. supply.

2. To adjust for frequency, connect the flexible lead on the right-hand side of the control panel to the terminal having a marking which most nearly corresponds to the frequency of the available A.C. supply.

3. To adjust the D.C. output voltage, connect a 60 watt, 115 volt Mazda lamp in series with a suitable ammeter across the D.C. output of the rectifier and adjust the potentiometer with screw driver slot located in the center of the tap panel until the ammeter reads 0.5 ampere.

It will be necessary for the rectifier to be connected to the A.C. current supply for approximately twenty seconds before D.C. output will be available. This time delay is necessary for the protection of the grid controlled rectifier tubes. This adjustment should be checked when the unit is installed and periodically thereafter.

The time delay may be adjusted by means of the adjusting screw and lock nut located on the tie bar between the two bi-metal strips.

The time delay relay is located under a metal cover at the top of the door opening. The cover is removable by loosening one screw and sliding the cover off to the right.

The time delay switch contacts should be adjusted by bending so that the D.C. output from the tubes is available before the A.C. output from the auto-transformer.

OPERATION

If the D.C. output fails to become available within approximately one minute after the power switch is turned on, make sure that:

1. The input fuse (lower one on the main terminal panel) is not burned out.

2. The plate transformer fuse (upper one on the terminal panel) is not burned out.

3. The front "make" contact of the relay (contact nearest the door of the cabinet) is in contact with its associated contact.

4. The filaments on both grid controlled rectifier tubes are lit.

5. The bi-metal pulls the relay armature down.

   If the bi-metal does not pull the relay armature down check the back contacts (normally closed) of the relay. These contacts in multiple are in series with the primary winding of the heater transformer. If the bi-metal is inoperative and these contacts are making, the heater transformer is probably at fault. The unit may be manually started by depressing the relay armature with a stick or other piece of non-conducting material. Once closed the relay coil will hold in.

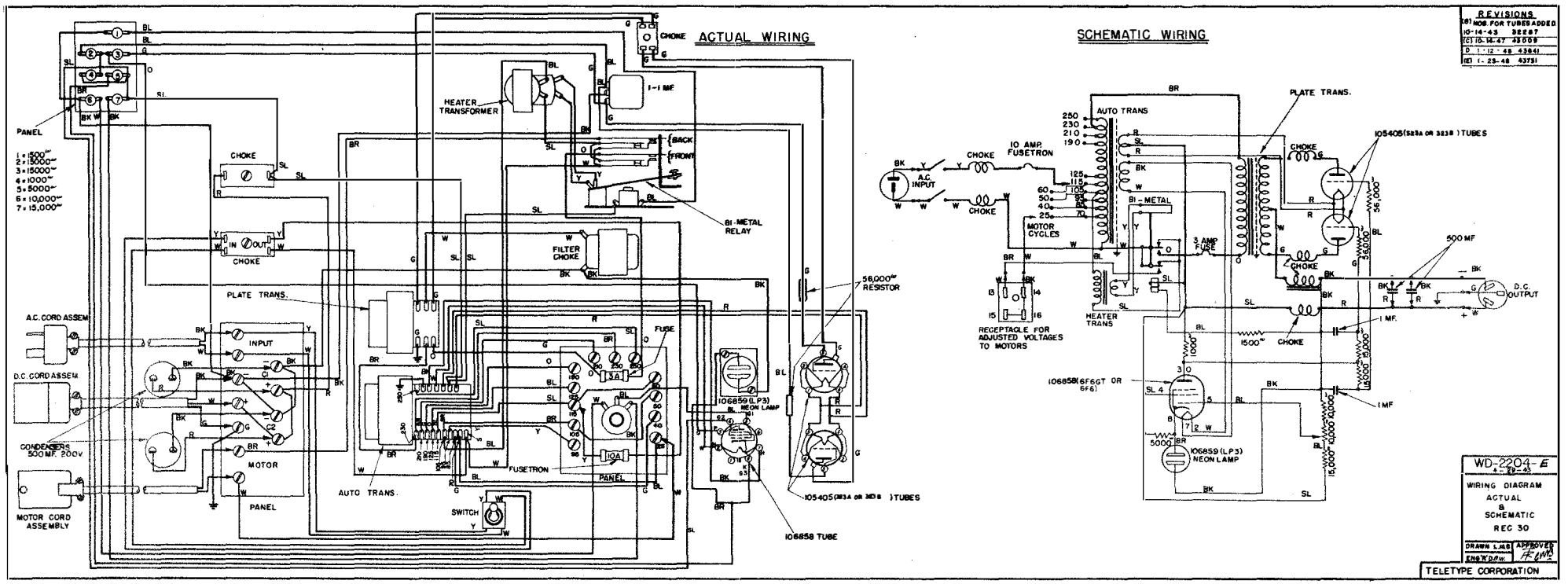
If the D.C. output rises considerably or if the rectifier output does not regulate properly, either the neon lamp and/or the amplifier tube may be defective.

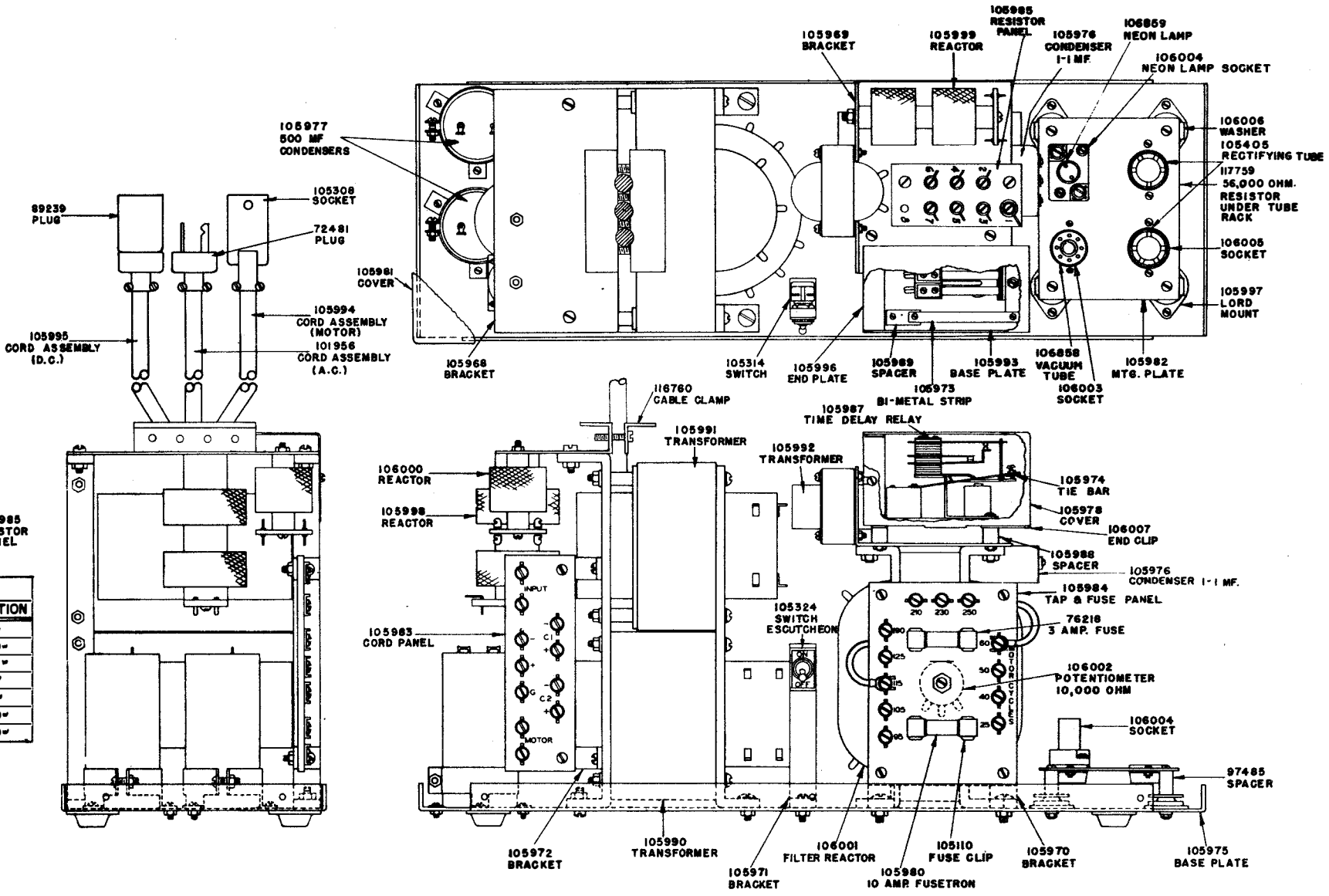
If a high enough output voltage cannot be obtained, one or both of the rectifier tubes may need replacement. If the line voltage drops considerably below the A.C. input line voltage setting, the D.C. output voltage will drop. In this case, the lower A.C. input line tap should be used to match the actual line voltage.

In the event that the time delay relay fails to hold down magnetically and the bi-metal remains hot, check relay coil and/or resistor in series with same. This could affect both the A.C. and D.C. outputs.

The actual and schematic wiring of the REC-30 rectifier is shown in the attached drawing W.D. 2204 and assembly drawing showing names and part numbers of the component parts of the rectifier is also furnished.

* * *


ACTUAL WIRING
SCHEMATIC WIRING
REVISIONS
NOS. FOR TUBES ADDED
10-14-43 32287
(C) 10-14-47 43009
D 1-12-48 43041
(E) 1-29-48 43751
PANEL
1 = 500~
2 = 5000~
3 = 15000~
4 = 1000~
5 = 5000~
6 = 10,000~
7 = 15,000~
CHOKE
IN
OUT
A.C. CORD ASSEM
D.C. CORD ASSEM
CONDENSERS 500 MF. 200v
MOTOR CORD ASSEMBLY
INPUT
MOTOR
PANEL
PLATE TRANS.
AUTO TRANS.
HEATER TRANSFORMER
1-1 MF
BACK
FRONT
BI-METAL RELAY
FILTER CHOKE
56,000~ RESISTOR
FUSE
5A
10A
FUSETRON
SWITCH
106859 (LP3) NEON LAMP
105405(283A OR 283B) TUBES
106858 TUBE
AUTO TRANS
250
230
210
190
125
115
105
60
50
40
25
10 AMP. FUSETRON
A.C. INPUT
MOTOR CYCLES
BI-METAL
3 AMP FUSE
HEATER TRANS
RECEPTACLE FOR ADJUSTED VOLTAGES TO MOTORS
106858(6F6GT OR 6F6)
5000~
1500~
1000~
500 MF
1 MF
D.C. OUTPUT
WD-2204-E
4-29-43
WIRING DIAGRAM ACTUAL & SCHEMATIC REC 30
DRAWN L.M.B.
ENG'R'D'BY
APPROVED
TELETYPE CORPORATION



RESISTORS		
NO.	PART NO.	DESCRIPTION
1	103754	1500Ω
2	106010	15000Ω
3	106010	15000Ω
4	106012	1000Ω
5	106013	5000Ω
6	106014	10000Ω
7	106010	15000Ω

INSTRUCTIONS FOR INSTALLING THE 110478 SET OF PARTS FOR SECURING AN REC13 OR REC30 RECTIFIER TO MODEL 19 (XRT114) TABLE

The 110478 set of parts is designed for securing an REC13 or REC30 rectifier to Model 19 (XRT114) table for operation aboard ship and is intended to prevent the rectifier from moving on the table shelf due to the ship's motion. the 110478 set of parts consists of the following:

2	107494	Stop Bracket
1	104031	Support Bar
2	104020	Clamp Plate
8	55235	Screw
8	2669	Lock Washer
12	3438	Washer
4	34-4	Nut

INSTALLATION

(1) Using two each of the 55235 screws, 2669 lock washers and 34-4 nuts and four 3438 washers, fasten one of the 107494 stop brackets in the left-hand pair of holes on the table shelf when viewing the table from the rear. The vertical surface of the bracket should be facing toward the right side of the table, and the brackets should be slid as far as possible to the left, before tightening the mounting screws.

(2) Place either an REC13 or REC30 rectifier on the table shelf and slide it against the stop bracket and the partition of the table. Place the rectifier so the door faces the rear of the table.

(3) Using the same mounting parts as per paragraph 1, mount the other 107494 bracket in the right-hand pair of holes on the shelf so that the vertical surface faces toward the left side of the table, sliding it against the rectifier before tightening the mounting screws. If the rectifier is loose between the stop brackets, loosen the left hand bracket and slide it in until the rectifier is against the right-hand stop bracket, again tightening its mounting screws.

(4) Slide the 104031 support bar over the top edge of the door side of the rectifier, so that the vertical leg of the bar is parallel to the (door side) rectifier and in front of the table legs, while the horizontal leg lies on top of the rectifier.

(5) Using two each of the 55235 screws, 2669 lock washers, and 3438 washers for each plate, mount the two 104020 clamp plates to the inside of the two rear table legs in the pairs of holes provided, positioning the ears on the plates over the 104031 support bar and sliding them down against the bar before tightening their mounting screws.

NOTE: When securing an REC13, the clamp plates should be positioned so the ear on each plate is at the bottom, while when securing an REC30, the plates should be positioned with the ear on each plate at the top.