

33 TELETYPEWRITER SET
INSTALLATION

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MOUNTING TYPING UNIT ON STAND	5	1.01 This section provides installation in- structions for the 33 teletypewriter sets. It is reissued to add information for installing sets used in No. 1 ESS-ADF (ADNET), 85A1, 86A1, and 86B1 Selective Calling, and to incor- porate the latest engineering requirements. TCNs 1260, 1375, 1507, and 1642 have been incorporated. Marginal arrows indicate changes and additions.	
CODING ANSWER-BACK DRUM.	5	1.02 References to left, right, front, or rear, etc, consider the teletypewriter set to be viewed from a position where the typing unit carriage faces up and the typing unit selector mechanism is located to the viewer's left.	
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PLACEMENT	9	UNPACKING	
A. Without Stand.	9	1.05 The teletypewriter set is packed in one carton. Observe all caution and instruc- tion labels on the carton before breaking the seals.	
B. With Stand.	9	1.06 Cut tape at center and end seams. Open carton and remove the upper filler pads. Remove typing unit carefully to avoid damaging	
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the plastic cover. Take out the remaining carton fillers and the stand (if used).

1.07 The typing unit and subbase are mounted on a shipping pallet by six screws.

Remove the six screws, being careful that the typing unit does not fall off the pallet. Once the shipping screws are removed, the typing unit is retained only by the cover.

Note: Retain the forward mounting screw and associated flat washer. This screw is used to secure the typing unit when shipped to another location without its cover fastened in place. The screw and washer may be stored in the TP181104 cable clip (included in bag of hardware with pedestal mounted units) to be mounted on the typing unit frame between the two dashpot mounting screws (Figure 1).

1.08 Remove typing unit from the shipping pallet.

CAUTION: DO NOT TILT THE TYPING UNIT AFTER IT HAS BEEN REMOVED FROM THE PALLET. THE TYPING UNIT FLOATS ON RUBBER ISOLATORS AND MAY PULL LOOSE IF IT IS TILTED.

PREPARATION FOR INSTALLATION

1.09 Remove the tape from across the top of the cover and take out the cables, platen knob, and paper spindle from the paper recess. Unwrap the parts.

1.10 Remove the call control bezel, if used, after removing its two mounting screws. Remove volume control knob or power switch rotary knob, if used, by pulling knob forward. Detach the nameplate (Figure 2) by pulling it down and out. Remove the four front and three rear cover mounting screws.

Note: On Automatic Send-Receive (ASR) Sets, remove the screw from the left rear corner of the tape reader cover.

Gently lift the cover from the subbase.

1.11 Remove the twist tie holding the carriage to the left side frame and the tissue paper retaining the spacing pawls.

Note: If the teletypewriter is an ASR Set with early design tape reader, remove the retaining clip from the tape reader upstop screw (Figure 12).

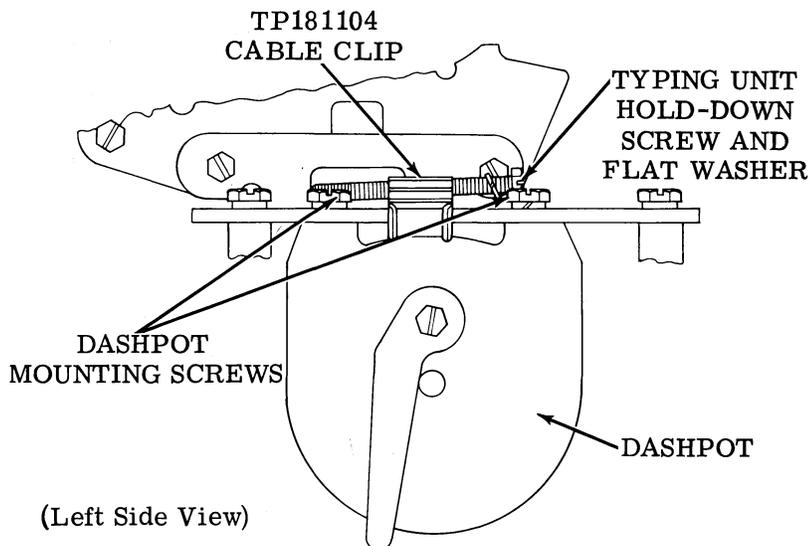


Figure 1 - Typing Unit Hold-Down Screw Storage

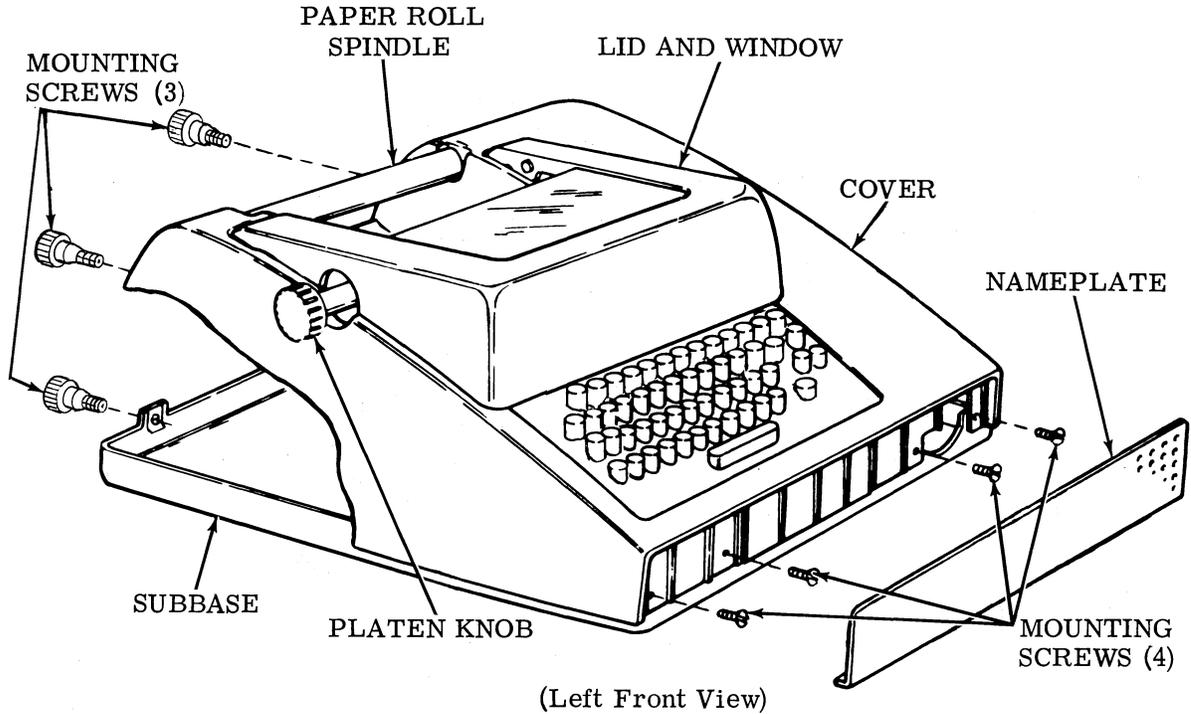


Figure 2 - Cover Mounting

1.12 If a stand is used, remove its two rear panel mounting screws and take panel off. Remove the copyholder, if used, from inside the stand. Remove the bag tied to the stand and place its hardware contents on the bench.

1.13 Use the supplied screws to fasten the data set, if used, to the relay rack.

1.14 The lubrication interval is dictated by the hours of use (including idle time) on a daily basis. The following charts and notes list the appropriate lubrication intervals.

REGULAR LUBRICATION (Note 2)			
SPEED	DAILY USE		
	0 to 8 Hours	8 to 16 Hours	16 to 24 Hours
60 WPM	39 Weeks	26 Weeks	13 Weeks
100 WPM	26 Weeks	13 Weeks	6 Weeks

LUBRICATION INTERVAL IN WEEKS —
BASED ON 5-DAY WEEK (Note 1)

INITIAL LUBRICATION			
SPEED	DAILY USE		
	0 to 8 Hours	8 to 16 Hours	16 to 24 Hours
60 WPM	3 Weeks	2 Weeks	1 Week
100 WPM	3 Weeks	2 Weeks	1 Week

Note 1: Reduce lubrication intervals 15 percent when usage is 6 days per week, 30 percent when usage is 7 days per week.

Note 2: Teletypewriters with typing unit serial numbers above 144,000 use lubrication intervals given above; sets with typing units below 144,000 reduce lubrication intervals 33 percent.

Note 3: Sets operating at speeds between 60 and 100 wpm, use lubrication requirements for the lower of the two speeds.

Note 4: The lubrication intervals are for the set as a whole — all components of the set should be lubricated at this interval.

Note 5: At initial lubrication recheck all clutch gaps in the typing unit to insure that the parts,

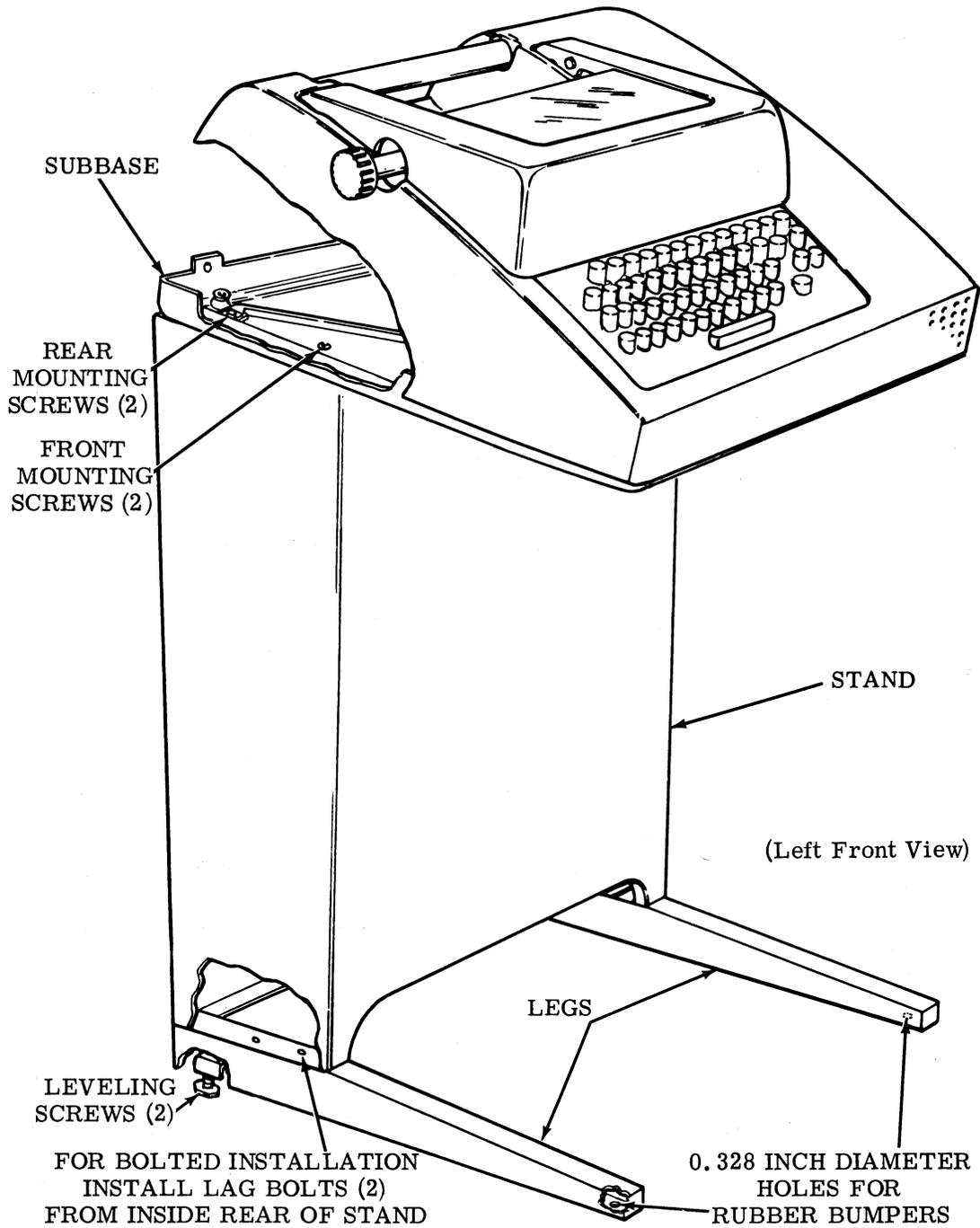


Figure 3 - Stand Leveling and Anchoring and Assembly of Subbase with Typing Unit to Stand

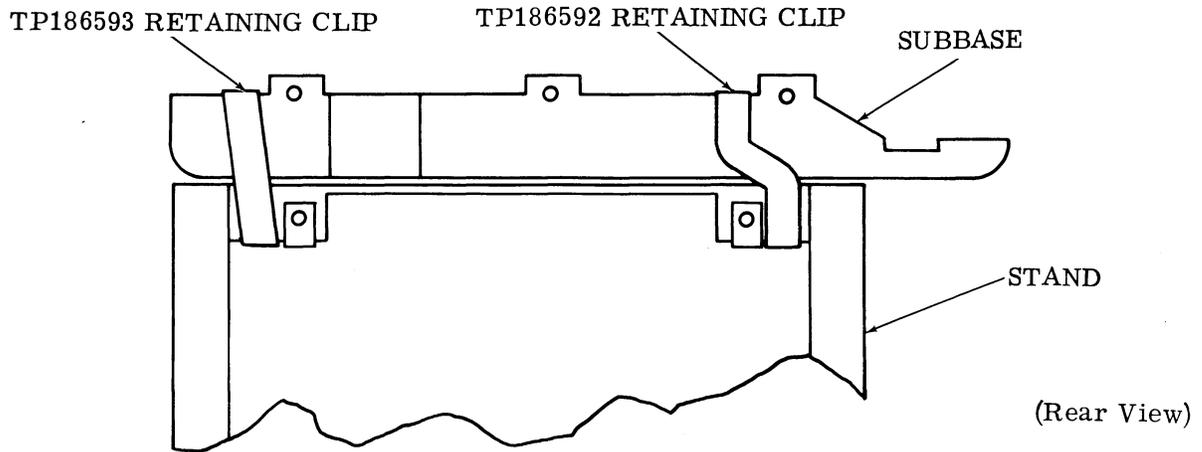


Figure 4 - Installation of Retaining Clips to Subbase and Stand

after seating themselves, have not caused the gaps to open up. Reset if necessary. Standard readjustment periods are to be maintained thereafter.

2. INSTALLATION

MOUNTING TYPING UNIT ON STAND

2.01 If the teletypewriter set is to be bolted to the floor, remove the front screw in each leg of the stand (Figure 3).

2.02 Install the plug button, included in the bag of hardware, in the forward hole in the bottom of the subbase.

2.03 Place the subbase and typing unit on top of the stand so that its back edge and sides line up with the back edge and sides of the stand. Install the two retaining clips, included in the hardware bag, on the base at the rear (one on each end) and snap them in place on the stand. Refer to Figure 4.

2.04 Mount subbase to the stand with four TP181237 screws and washers; where supplied use 10-32 hex head screws with flat washers and lockwashers in the front tapped subbase bosses. Tighten mounting screws.

CODING THE ANSWER-BACK DRUM

2.05 To remove answer-back drum for coding, press back and down on the tab portion of the TP180854 brace until it becomes detented in its open position. Lift feed pawl slightly (do not overextend its spring) and remove drum.

2.06 Code the answer-back drum in a counter-clockwise direction (Figures 5 and 6), starting with row no. 1.

Note: The ST row is the first row sensed at the beginning of an answer-back cycle. It is coded at the factory for character suppression and must not be recoded.

2.07 A particular character is coded by either retaining or removing tines within a row, as illustrated in Figure 5. A tine may be removed by either of the two following methods:

(a) Method 1: Place the end of a screwdriver blade at the base of a tine in the row previously coded. Press the side of the blade against the top of the unwanted tine until the tine breaks off. Figure 5 illustrates this method — pressure applied to base of row no. 18 and against top of adjacent tine being removed from row no. 19.

(b) Method 2: Place the unwanted tine in the slot of a TP161686 tine tool, or grasp the tine firmly with long-nose pliers. With the tool or pliers held stationary, rotate the answer-back drum back and forth until the unwanted tine breaks off near its base. Do not damage adjacent tines.

Note: If a coding error is made, or for some other reason it is necessary to suppress (erase) characters from the answer-back drum, remove the character suppression tine from the row(s) affected.

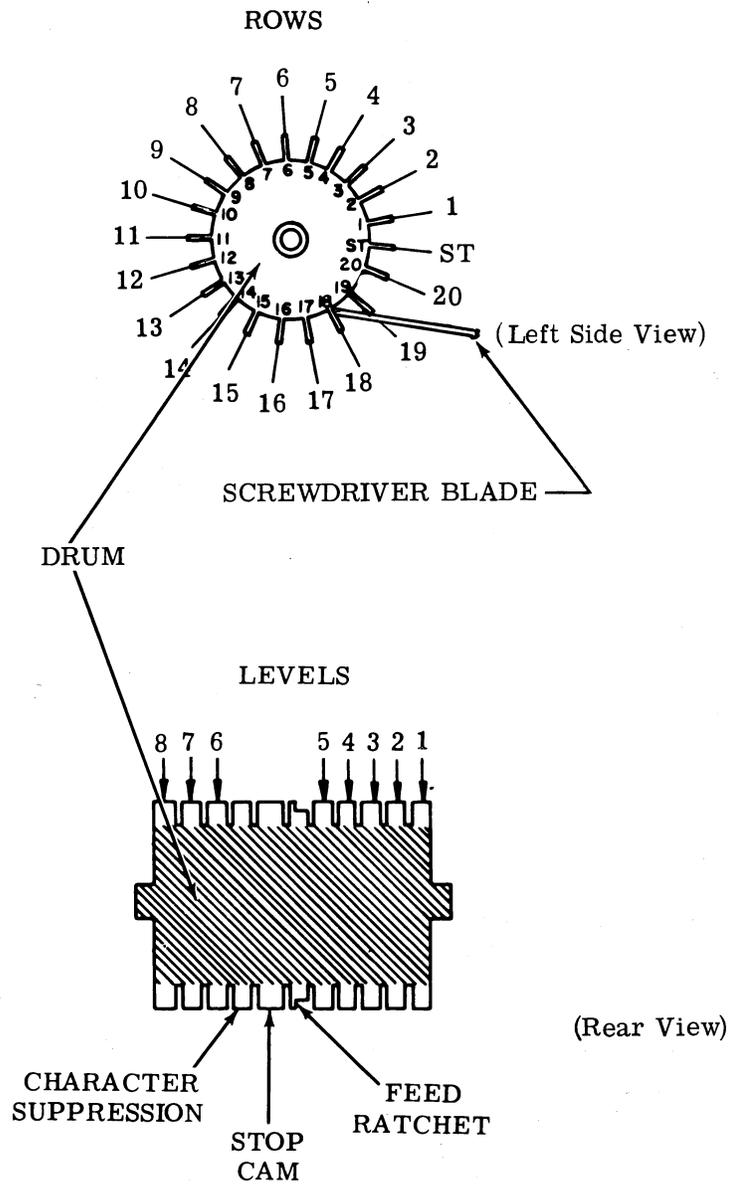


Figure 5 - Answer-Back Drum

SECTION 574-100-201

2.08 The length of an answer-back sequence can be varied either by removing the stop cam tine(s) and/or the character suppression tine(s).

(a) For short sequences, code the drum for either 2- or 3-cycle operation by removing the appropriate tine(s) as indicated in Figure 6.

(b) Removal of the character suppression tine from any row prevents transmission from the answer-back mechanism. To shorten the answer-back sequence, remove the suppression tine from any unused row(s) after the end of a message.

2.09 Each coded message should begin and end with CARRIAGE RETURN AND LINE FEED (this may be altered in specific applications). This assures that the transmitted message will appear at the beginning of a line of the receiving teletypewriter set and eliminates overprinting.

→2.10 In some services, the station identification for 1-cycle operation may not exceed 14 characters, including spaces. The answer-back drum should be coded as follows:

ABBREVIATION	KEY TO ABBREVIATION
ACK	Acknowledge
CR	Carriage Return
LF	Line Feed
RO	Rub Out
SP	Space
SUP	Character Suppression

(a) Example 1:

SUP CR LF RO

TELETYPE SP NILES CR LF ACK

Company City

Station Identification
(Maximum-14 characters)

Note: In this system, the ACK character code combination must be the final significant character code combination in the coded answer-back message.

(b) Example 2:

SUP CR LF RO

ERIE SP BOST CR LF ACK SUP
SUP SUP SUP SUP

Company City

Station Identification
(Less than maximum
number of characters)

Note: If the station identification is less than the maximum of 14 characters in length, then the remaining rows on the answer-back drum must be coded with the character suppression code according to Example 2 above.

2.11 To replace the answer-back drum, place the TP180854 brace in its detented open position, and lift feed pawl (do not overextend its spring). Replace drum with its shaft firmly seated in the contact block slots. Release feed pawl and TP180854 brace. Rotate answer-back drum to assure proper seating of its associated parts. Check that the contact wires are located in their proper slots.

ELECTRICAL CONNECTION

CAUTION: MAKE SURE POWER CORD IS NOT CONNECTED.

2.12 Refer to the appropriate wiring diagrams packed with teletypewriter set or to the appropriate wiring diagram section when provided.

2.13 Where a data set is used, connect the data set to the call control unit. Connect the telephone line and data set power leads to terminals indicated on wiring diagram.

2.14 Connect power cord to an ac source, 115-volt 60 hertz.

ADJUSTMENTS

2.15 Check DASHPOT ORIFICE (Spacing Area) adjustment, since altitude may have some → affect on dashpot operation. See Section → 574-122-700 for adjusting procedure.

2.16 Sets equipped with an answer-back mechanism must be tested for proper response to a predetermined call character such as WRU. The following procedure is recommended for performing this test.

- (a) Request test center to call the station being installed and transmit the predetermined call character signal several times after a connection has been established.
- (b) The station being installed should answer automatically and transmit the answer-back message when the predetermined call character signal is received.
- (c) The installed station's answer-back mechanism should respond to the receipt of each predetermined call character signal.
- (d) If proper response is not obtained, check and correct the answer-back area adjustments (Section 574-122-700), beginning with those of the following list, until proper operation is obtained.

DRUM POSITION
TRIP LEVER CLEARANCE
FEED PAWL POSITION
FEED LEVER POSITION
"HERE-IS" BELLCRANK POSITIONING
TRIP BAIL POSITIONING
CHARACTER SUPPRESSION CONTACT
WIRE GAP

PLACEMENT

A. Without Stand

2.17 If a stand is not included, place the teletypewriter set on the surface where it is to be used.

B. With Stand

2.18 Figure 3 illustrates the facilities for leveling and anchoring the stand.

2.19 Place the partially assembled set where it is to be used. If the set rocks to one side or another, tip it slightly and reposition the leveling screws.

Note: Reaction to the carriage returning to its left position may cause early design teletypewriter sets to move across the floor toward the left. To correct this, either add weight to the stand, arrange to have it bolted to the floor, or drill one 0.328 inch diameter hole into each leg and install TP182285 rubber bumper in each leg.

2.20 If the teletypewriter set is to be bolted to the floor, place stand at the desired location and drive lag bolts into the floor through the front holes in the legs.

2.21 Place the relay rack with data set inside the stand.

3. FINAL ASSEMBLY

GENERAL

3.01 Replace the back panel onto the stand, if used, using the removed screws.

Note: Before replacing an ASR cover, remove the retaining clip from the tape reader upstop screw (Figure 12).

3.02 Replace the cover over the typing unit and onto the subbase (Figure 2). Take care that all seams are tight and that keyboard pushbuttons, dial, etc, are properly aligned. Insert and tighten the cover mounting screws removed during PREPARATION FOR INSTALLATION.

Note: On an ASR Set, insert and tighten the screw at the left rear corner of the tape reader cover.

3.03 Replace the nameplate making sure that the formed lip fits around the bottom of the flange on the cover, that the top edge is behind the small lip on the cover, and that the bottom of the nameplate rests on top of the two small projections on the subbase.

3.04 Replace the volume control knob or the power switch rotary knob, if either is used, by positioning and pushing it rearward.

3.05 Position the bezel, if used, on the cover over the call control unit. Insert and tighten its two mounting screws.

3.06 On friction feed typing units, align the platen knob with the flat on the left side of the platen. Push knob in place. On sprocket feed typing units, install platen knob on left side of platen. Fully seat knob to the right and secure it with the screw provided.

RIBBON INSTALLATION

3.07 Figure 7 illustrates ribbon threading.

3.08 Raise the cover lid. Pull both spools off the friction spindles.

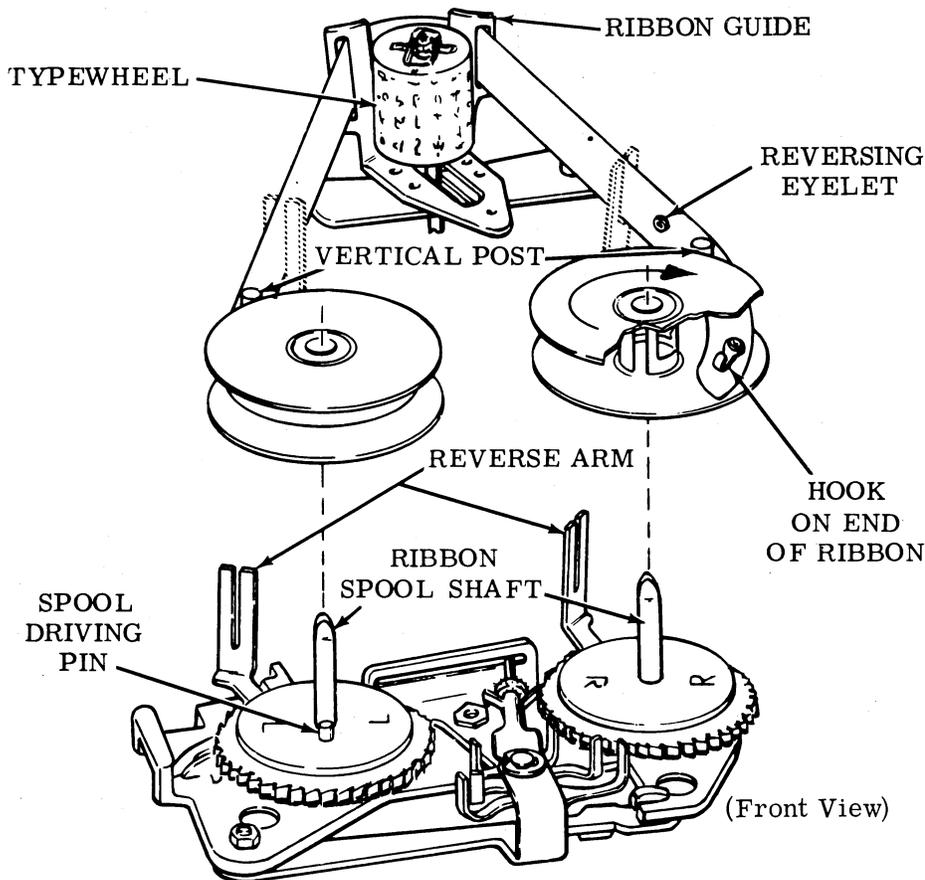


Figure 7 - Ribbon Threading

3.09 Engage the hook at the end of the ribbon in the hub of the empty spool; if there is no hook, pierce the end of the ribbon over the point of the arrow in the hub of the empty spool. Wind a few turns of ribbon onto the empty spool in the direction indicated by the arrow, and make sure that the reversing eyelet has been wound upon the spool.

3.10 Place the spools on the shafts in such a manner that the ribbon feeds to the rear from the right side of the right spool and from the left side of the left spool. Turn each spool slightly until the spool driving pin engages the hole in the spool. Guide the ribbon around the right vertical post and through the slot in the reverse arm. Place the ribbon in the ribbon guide behind the typewheel. Guide the ribbon through the left side of the reverse arm and around the vertical post. Rotate the spool to take up any slack.

PAPER OR FORM INSTALLATION

A. Friction Feed

3.11 A friction feed teletypewriter set accommodates a standard roll of paper 8-1/2 inches wide and 5 inches in diameter. Figure 8 illustrates paper threading for a friction feed typing unit.

3.12 Insert the paper roll spindle into the roll of paper so that an equal length of spindle is exposed at either end of the roll. Place roll into the cover recess with the ends of the spindle resting in the slots so that the paper will unroll from the bottom.

3.13 Raise the cover lid. Release pressure roller tension by moving the pressure lever forward. Prepare a smooth leading edge

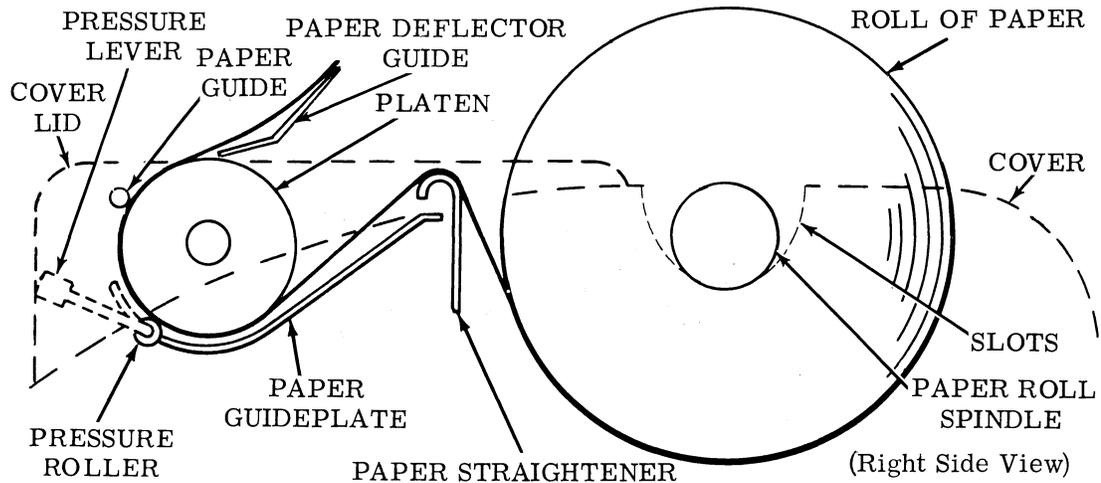


Figure 8 - Paper Threading — Friction Feed

of paper. Pass paper over paper straightener, under platen, and under paper guide. Straighten paper and reapply the pressure roller tension. Close the cover lid.

Note: When typing units are stored or out of service for an extended period of time, release the pressure roller tension.

B. Sprocket Feed

3.14 A sprocket feed teletypewriter set accommodates forms 8-1/2 inches wide and of various lengths. The forms are normally passed to the typing unit from a conveniently located supply at the rear of the set.

3.15 Place the paper roll spindle into the paper recess of the cover so that it rests in the slots provided.

3.16 Figure 9 illustrates form threading for a sprocket feed typing unit.

3.17 Form Threading: Raise the cover lid. Pass the leading edge of the first form under the paper roll spindle. Thread the form under the low-paper and paper-out arms, if used, and between the platen and paper guideplate. Guide the form squarely into the platen and rotate the platen until the form is advanced by the sprocket pins. Lift up the wire guide and continue to rotate the platen until the form is under

the wire guide and positioned for the first typing line. Lower wire guide and cover lid. After the first form is fed out, lift the form over the paper roll spindle to separate the incoming forms from the outgoing forms.

3.18 Figure 10 illustrates the zeroizing position of the platen drive mechanism for one cam lobe operation. For platen drive mechanisms using more than one cam lobe, see the CAM ZERO POSITION (Platen Drive Area, Sprocket Feed Mechanism) adjustment in the appropriate typing unit adjustment section.

3.19 Zeroized Position: Position a form at its first printing line in the typing unit. Depress the zeroizing button and rotate the pulley until the index plate is lined up with the pointer. Release the zeroizing button.

Note 1: To initiate the action to feed out a form, depress the CTRL and FORM keytops. The form-out mechanism will not respond to successive commands to feed out a form. At the end of a form feed-out, advance the form at least one line before issuing a second form-out command.

Note 2: The typing unit, in an ASR Set, operates one cycle behind the tape reader. Thus, a nonprint fill in code selection is required immediately after each form-out selection for proper set operation.

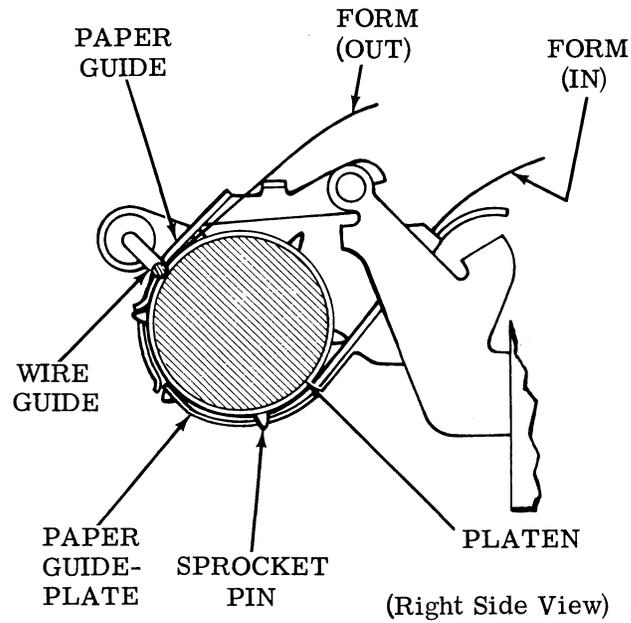


Figure 9 - Form Threading — Sprocket Feed

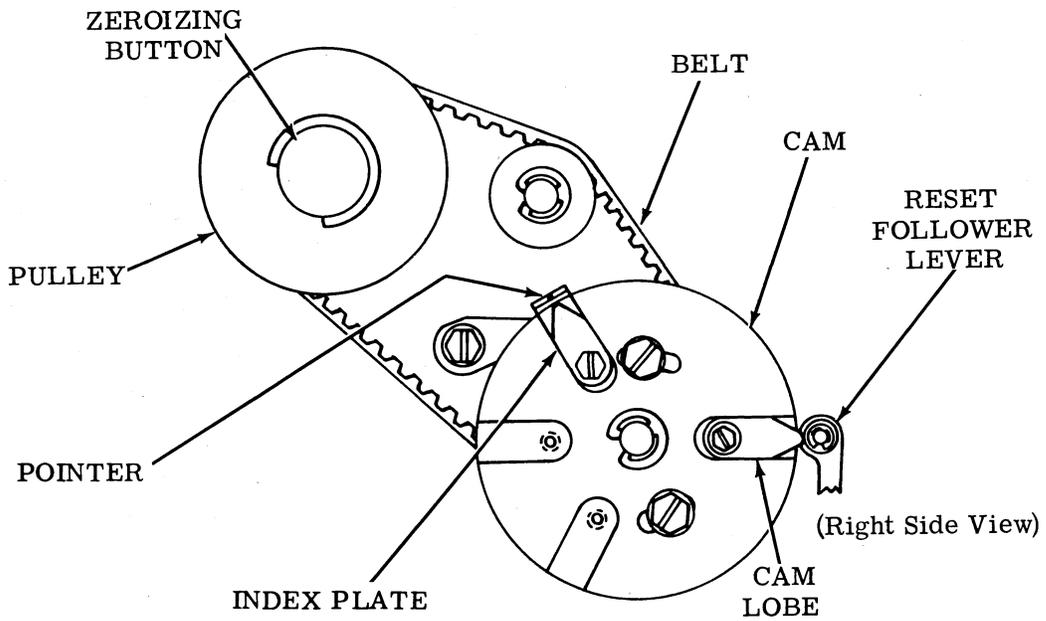


Figure 10 - Zeroizing Position of Platen Drive Mechanism — One Cam Lobe Operation

4. OPTIONAL FEATURES

A. Copyholder

4.01 With the line guide facing forward (Figure 11), insert the rear mounting tabs in the lower mounting slots. Pivot the copyholder to align the front mounting tabs above their mounting slots. Push copyholder downward until the tabs are fully seated.

B. Busy Circuit

4.02 The teletypewriter set is normally wired in a "don't answer" mode of operation for low-paper alarms and out-of-service. In this mode, the set will not answer an incoming call. To wire the teletypewriter set to indicate "busy" instead of not answering, move the black-slate wire from terminal no. 2 to terminal no. 4 on the ringer terminal strip.

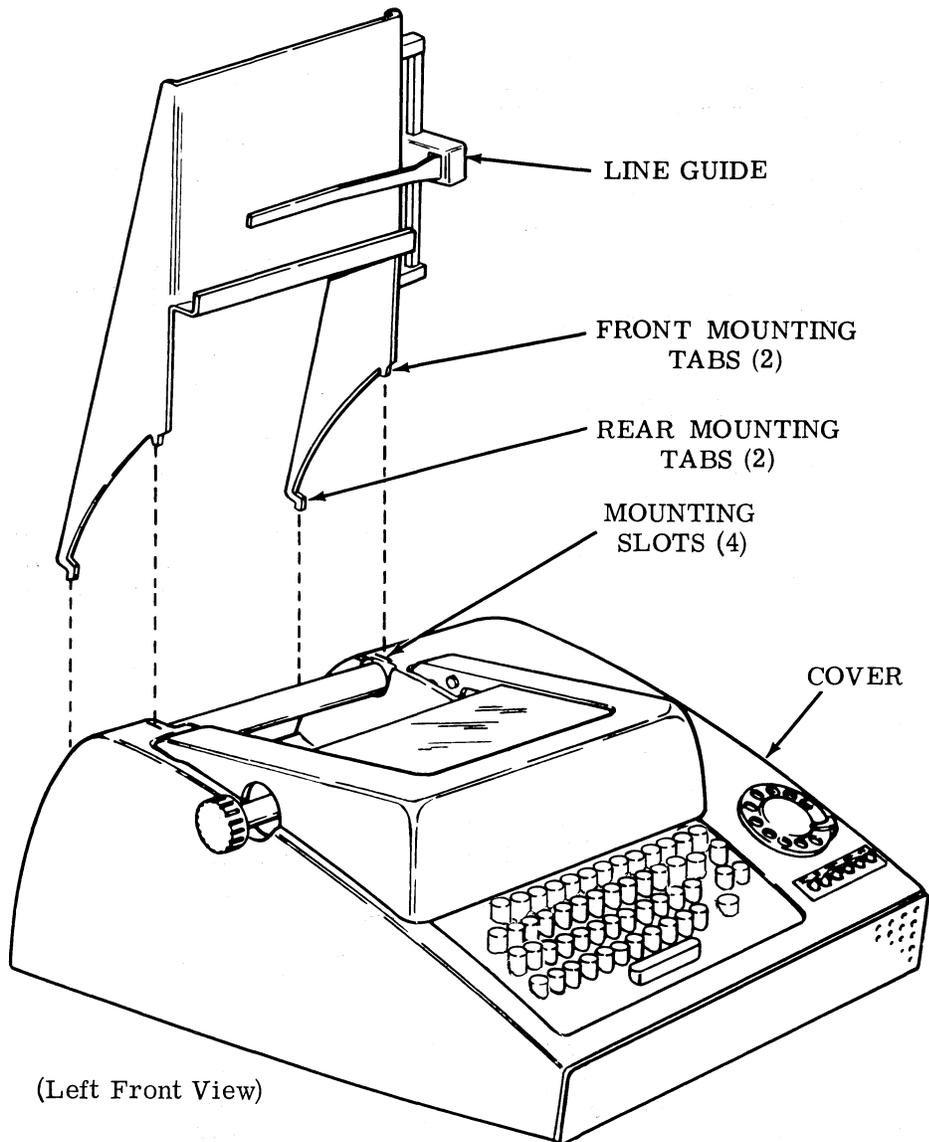


Figure 11 - Copyholder

C. Hand Receiver

4.03 To install the hand receiver, connect the two white wires to terminals no. 5 and 6 on the 9-point terminal board.

5. TAPE READER

5.01 A retaining ring or clip (Figure 12) is assembled (on early design units) to the upstop screw to prevent the sensing pins from being dislodged during shipment. This retaining clip must be removed before placing the tape reader in operation.

5.02 When inserting tape into the tape reader prior to operation, allow enough slack in the tape between the tape punch and the reader so that the reader lid can be easily closed.

CAUTION: THE TAPE READER OPERATES UNDER HIGH VOLTAGE. PRECAUTIONARY MEASURES SHOULD BE TAKEN WHENEVER POWER TO THE TAPE READER IS TURNED ON. HIGH VOLTAGE FROM THE POWER PACK WILL CONTINUE UNTIL APPROXIMATELY 10 SECONDS AFTER THE TAPE READER HAS BEEN DISCONNECTED.

5.03 Do not place the control lever beyond the STOP position while the tape reader is operating under power. The reader must come to a complete stop before placing the control lever in the FREE position.

6. POWER PACK ASSEMBLY

6.01 Clip the power pack to the front panel inside the stand (Figure 13). Position the power pack approximately 1/2 inch from the right panel.

6.02 The auxiliary ASR power supply is mounted in the enclosure of the stand. It is used in the off-line mode to provide 115 volts on the tape reader, answer-back, and distributor contacts when a tape reader is used. When the tape reader is not used, a plug with a jumper wire is inserted in position R2 at the rear of the call control unit.

7. TAPE PUNCH

7.01 The tape punch, drive link mechanism, baseplate, and plastic cover are assembled at the factory.

7.02 Figure 14 illustrates the proper installation of a tape spool in a tape roll.

- (a) For 2-inch inside diameter tape rolls, use the tube-type spool.
- (b) For 1-inch inside diameter tape rolls, use the 2-piece spool.
- (c) Place the tape and spool into the tape punch cover so that the leading edge of the tape is at the top of the roll.

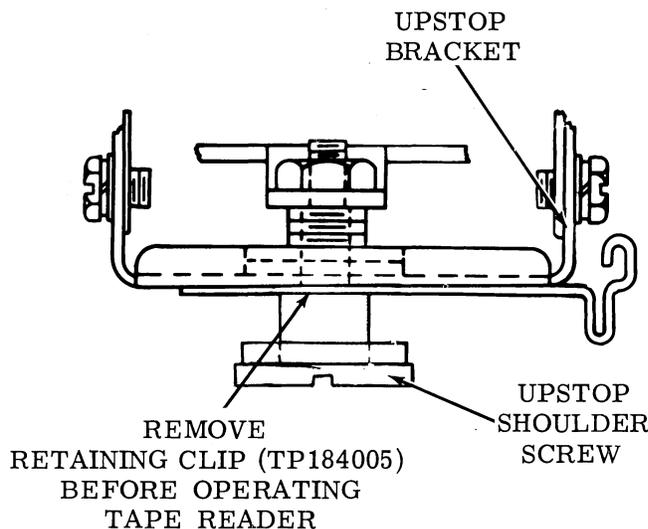


Figure 12 - Tape Reader Upstop Bracket Retaining Clip

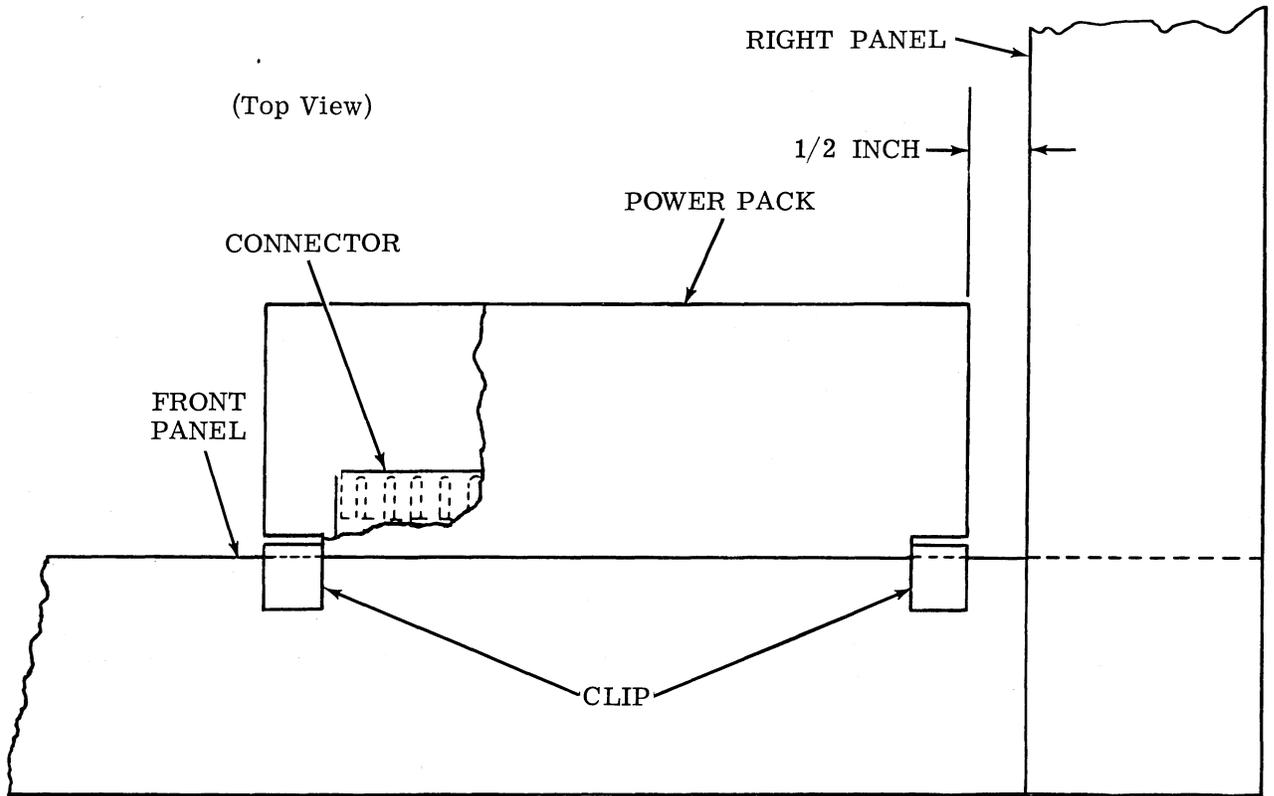


Figure 13 - Power Pack Assembly

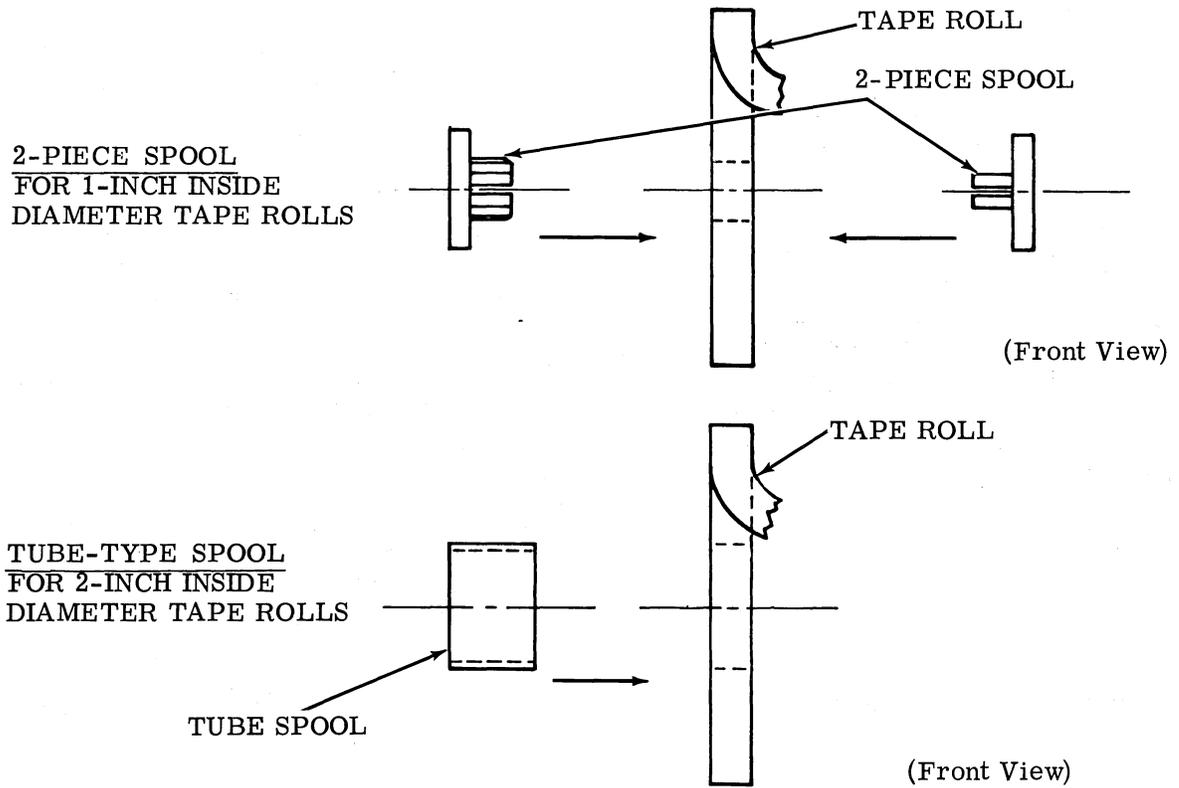


Figure 14 - Tape Roll and Tape Spool Assembly

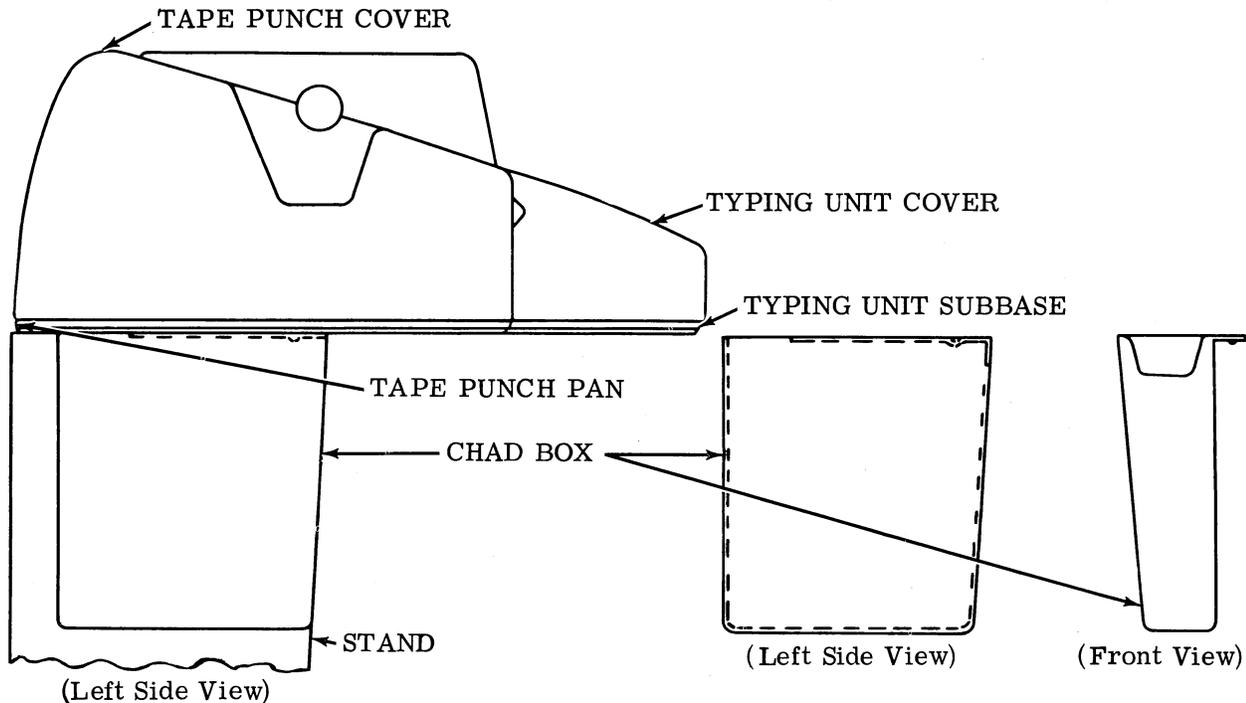


Figure 15 - Tape Punch Chad Chute Assembly

7.03 Figure 14 illustrates the chad box installation.

- (a) Assemble the chad box under the tape punch pan by inserting the back of the flanged surface between the stand and the typing unit subbase.
- (b) Push the chad box toward the rear until the bent surface located at the front of the chad box engages the stand. An embossing located on the front bottom surface of the flanged surface engages an oblong hole in the stand and holds the chad box in place.
- (c) To empty the chad box, lift the front slightly and pull the chad box toward the front until it becomes disengaged.

8. ELAPSED TIMER

8.01 When the typing unit is removed for re-shipment or replacement, record the hours shown on its associated elapsed timer (do not remove timer) and place this information with the typing unit.

8.02 After the typing unit has been removed, reset the timer to zero hours as follows:

- (a) Remove the two mounting screws holding the hours indicator mechanism to the timer assembly.
- (b) Remove the hours indicator mechanism and rotate its gear until the numeric scale indicates zero hours.
- (c) Reinstall the hours indicator mechanism on the elapsed timer assembly and secure it with its two previously removed screws.

9. TELETYPEWRITER SETS FOR NO. 1 ESS-ADF (ADNET), 85A1, 86A1, AND 86B1 SELECTIVE CALLING

9.01 The teletypewriter sets for No. 1 ESS-ADF (ADNET), 85A1, 86A1, and 86B1 Selective Calling have certain features that differ from the standard sets and which require different installation procedures.

9.02 The following paragraphs in this section apply to the Selective Calling sets:

- (1) GENERAL (1.01 thru 1.04)
- (2) UNPACKING (1.05 thru 1.08)

(3) **PREPARATION FOR INSTALLATION** (1.09 thru 1.14) Also, remove platen knob. On ASR sets remove one screw from the mode switch knob.

(4) **MOUNTING TYPING UNIT ON STAND** (2.01 thru 2.04)

Note: The 85A1/86A1 Selective Calling sets do not have an answer-back. Thus, omit 2.05 thru 2.11.

(5) **ELECTRICAL CONNECTIONS** — The instructions given in 2.12 thru 2.14 are general instructions. For the Selective Calling sets refer to the applicable station installation section for wiring interconnections of the attendant set, station controller, and teletypewriter. The "A" connector of the teletypewriter is the signal line and controls to the station controller. The "K" connector is used for interconnecting auxiliary receivers. The 15-pin Molex connector joins with the reader power pack. The 4-prong

quick disconnect connectors mate for the 48 v dc power supply.

(6) **DASHPOT ORIFICE ADJUSTMENT**

Note 1: Perform this adjustment since altitude may have some effect on dashpot operation.

To Check

Place carriage at right margin. Manually disengage the check pawl and feed pawl of the spacing mechanism.

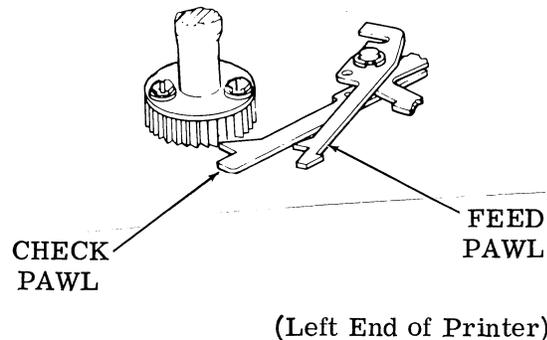
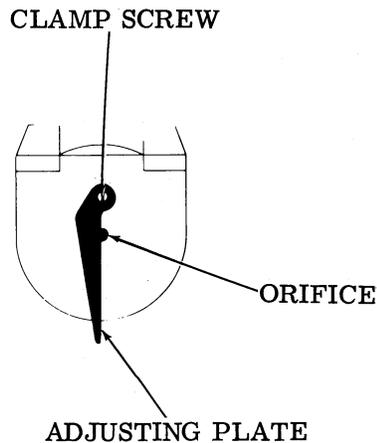
Requirement

No pneumatic or mechanical bounce of carriage upon its return.

To Adjust

Loosen clamp screw. Position adjusting plate. Tighten clamp screw.

Note 2: Damage to the carriage could result if the orifice is left completely uncovered.



(7) PLACEMENT (2.17 thru 2.21)

(8) FINAL ASSEMBLY — The back panel and cover should not be replaced until all components have been readied for proper operation. The typing units are equipped with a new line feature which is disabled at the factory by means of a TP186557 disabling bracket (Figure 16) located under the TP180798 screw that holds the TP180772 shaft in place on the left side of the function box. The TP186557 disabling bracket makes contact with and disengages the TP181325 pawl in slot A. To enable the new line feature remove the TP186557 bracket. Also at this time the operational mode of the tape punch should be determined. As shipped from the factory, the punch has two disabling clips installed in slots A-0 and A-8. If manual operation of the punch is desired, retain the two clips. If automatic operation is desired, remove the two clips. See Figure 17. Proceed with FINAL ASSEMBLY, 3.03 thru 3.06.

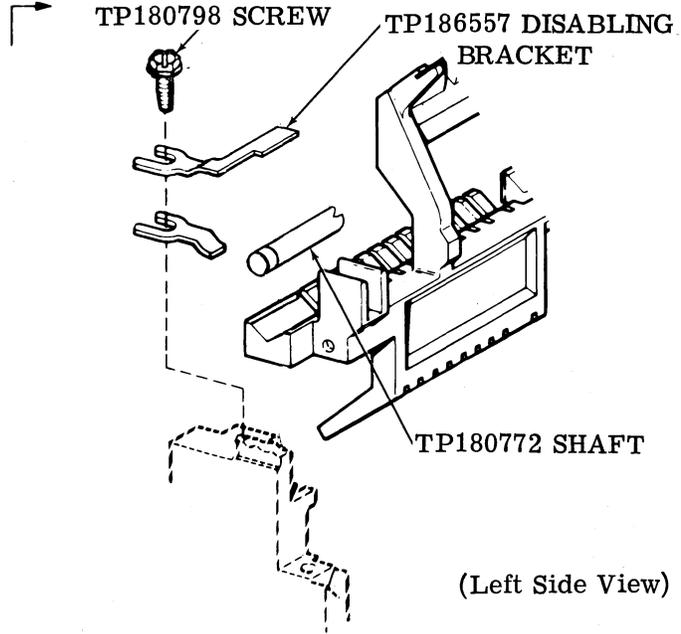


Figure 16 - New Line Disabling Bracket

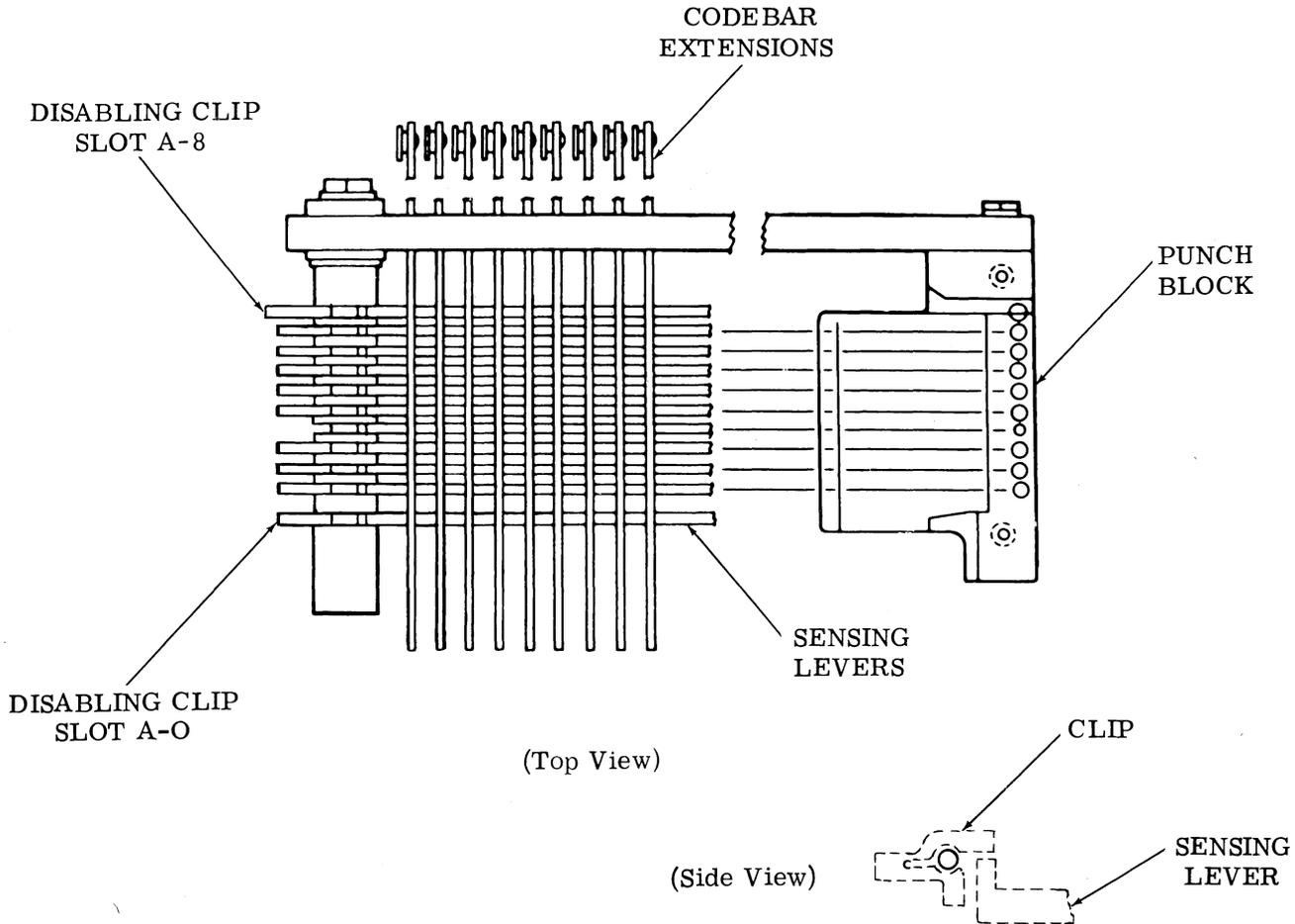


Figure 17 - Tape Punch Disabling Clips

- (9) RIBBON INSTALLATION (3.07 thru 3.10)
 - (10) PAPER OR FORM INSTALLATION (3.11 thru 3.19)
 - (11) OPTIONAL FEATURES — Refer to the station installation section for the applicable options.
 - (12) TAPE READER (5.01 thru 5.03)
 - (13) POWER PACK ASSEMBLY (6.01 thru 6.02)
 - (14) TAPE PUNCH (7.01 thru 7.03)
 - (15) ELAPSED TIMER (if applicable, 8.01 thru 8.02)
10. REPACKING FOR SHIPMENT
- 10.01 With the subbase removed from the stand, remove the plug button from the forward hole in the bottom of the subbase.
 - 10.02 Secure the typing unit to the base by inserting and tightening the screw and washer previously stored in the TP181104 cable clip (1.08). Do not damage the typing unit by overtightening the screw.
 - 10.03 Store the removed plug button in the TP181104 cable clip.
 - 10.04 If the teletypewriter set is to be shipped in a RS16581 styrofoam packing case, remove the typing unit from its base. Place the typing unit in the packing case. Spaces are also provided for the reader and punch, if needed.