28 TELETYPEWRITER CABINETS - FOR KSR AND RO SETS

ADJUSTMENTS

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	LBAC — 28LA Teletypewriter Cabinets	. 11	1. GENERAL	
	Bearing bracket	. 14	1.01 This section provides instructions for adjusting the 28 teletypewriter cabined designed to house the Keyboard Send-Receive are the Receive-Only teletypewriters.	ts
	bushing	. 15 . 11 . 13 . 16	1.02 In this issue, cabinets for the Automatic Send-Receive Sets have been removed Wall-mounted cabinets for housing single 28 KS or RO sets have been added, multiple page printer cabinets for housing three or four printer set have also been added. Since this is a generic	d. R er ts

revision, marginal arrows ordinarily used to indicate changes and additions have been omitted.

1.03 Most cabinet adjustments are initial adjustments that are made at the factory and do not require routine adjusting unless mounting screws have become loosened or parts have been removed and replaced. Adjustments

most likely to need checking or remaking are outlined and illustrated herein. The figures show the adjusting tolerances, positions of moving parts, and spring tensions. Where an illustration shows interrelated parts, the sequence that should be followed in checking the requirements and making the adjustments shown is indicated by the letters (A), (B), (C), etc.

ADJUSTMENTS

LAC - 28B through 28E and 28J Teletypewriter Cabinets

2.01 Dome

(A) DOME

(1) Requirement

The dome should be centered on the cabinet from right to left and placed

Min 3/16 inch---Max 1/4 inch from the front edge of the cabinet.

To Adjust

Position the dome with the six nuts which secure the dome hinges to the dome loosened. Tighten the nuts.

(2) Requirement

There should be a light-proof seal at the rear of the dome between the rubber gasket and the top edge of the cabinet.

To Adjust

Position the dome downward with the six nuts, which secure the dome hinges to the cabinet, loosened. Tighten the nuts.

(B) DOME CATCH

(1) Requirement

The dome should latch securely with a light-proof seal at the front of the dome between the rubber gasket and the top edge of the cabinet.

(2) Requirement

The dome catch should unlatch when the catch button is depressed no deeper than the outer surface of the dome.

To Adjust Bend the two dome catches.

SMALL DOOR CATCH

(1) Requirement

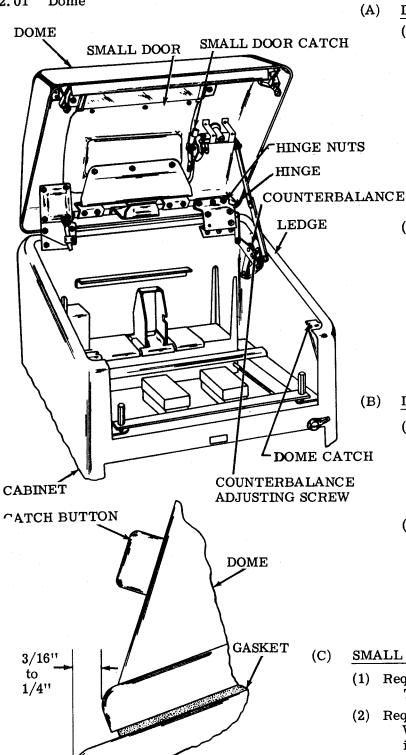
The small door should securely latch.

(2) Requirement

When the door is released from its catch it should spring open at least 1/2 inch.

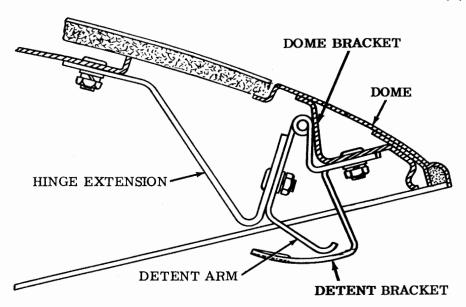
To Adjust

Bend the small door catch. Recheck rear of door to make certain it is flush with or slightly above the dome.



CABINET

2.02 Small Door



(A) SMALL DOOR

Requirement

The small door should be centered from right to left. It should be positioned so as to provide a light tight seal between the rubber gasket and the ledge of the dome at all points.

To Adjust

Loosen the two nuts that secure detent bracket to dome bracket. Loosen the two nuts that secure detent arm to hinge extension. Loosen the four nuts that secure door hinges to dome bracket. Push hinges against dome bracket and tighten the four nuts that secure hinges to

dome bracket. Loosen the three nuts that secure hinge extension to door. Slide door to its extreme forward position and position centrally from side to side with 1/32 inch minimum clearance on each side. Position the door so that it is flush with or nor more than 3/32 inch above the dome. Door is to be parallel to within 3/32 inch. Tighten the three nuts that secure hinge extension to door. If the above requirements cannot be met, loosen the four nuts that fasten the door hinge to hinge extension. Position door flush with or slightly above dome so that the above requirements are met. Tighten the four nuts.

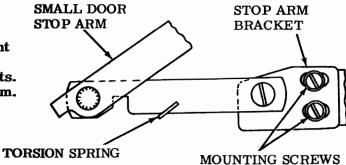
(B) DETENT ARM AND DETENT BRACKET

Requirement

With the dome closed, the small door should spring open at least 1/2 inch when released from its catch. The small door should remain in its detented position when the dome is opened into its fully raised position.

To Adjust

Position the detent arm and the detent bracket by means of their elongated mounting holes. Tighten the four nuts. If necessary reposition the detent arm. Recheck all nuts for tightness.



(C) SMALL DOOR STOP ARM

Requirement

Stop arm should be free of binds when door is opened or closed.

To Adjust

Loosen the stop arm bracket mounting screws. Close the door. Disconnect the torsion spring. Align stop arm for freeness and tighten mounting screws with door closed. Replace torsion spring.

(D) COUNTERBALANCE

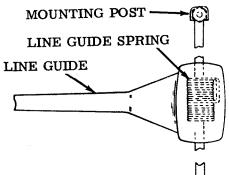
Requirement

The dome should remain in its maximum open position and not close unless moved manually.

To Adjust

Turn the spring adjusting screw. (See Par. 2.01.)

Copyholder, Copy Lamp 2.03



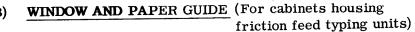
(A) **COPYHOLDER**

Requirement

There should be sufficient tension on the line guide to hold copy in place and to prevent the line guide from slipping down its shaft. Line guide should be parallel to copyholder tray.

To Adjust

Remove the mounting screws or nuts from the line guide shaft and turn the shaft. Remount the shaft and tighten screws or nuts. Bend line guide to make it parallel to copyholder.



(1) Requirement

When the small door is opened or closed, the window should clear paper guide by 1/16 inch.

Note: 0.080 to 0.110 inch on skin tight cabinet. (See Par. 2.16.)

To Adjust

Position window with its retainer screws loosened. Check to see that gasket is between glass and metal surface.

(2) Requirement

With small door closed, the bottom edge of the naper guide should be

Min 7/64 inch---Max 9/64 inch below bottom surface of window.

To Adjust

Position the paper guide with its mounting screws loosened.



INDICATOR LAMP (C)

Requirement

Clearance between indicator lamp and lens - approximately 1/16 inch.

To Adjust

Position lamp holder on its bracket with mounting screws loosened.

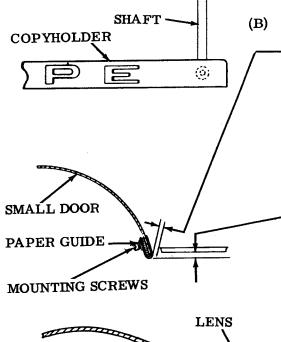
COPY LAMP

Requirement

Clearance between copy lamp and cover approximately 1/16 inch.

To Adjust

Position lamp holder on its bracket with its mounting nut loosened. (On skin tight cabinets, rotate shield for desired illumination.)



LAMP BRACKET

2.04 Form Guide

Note: The following four adjustments are for cabinets housing sprocket feed typing units.

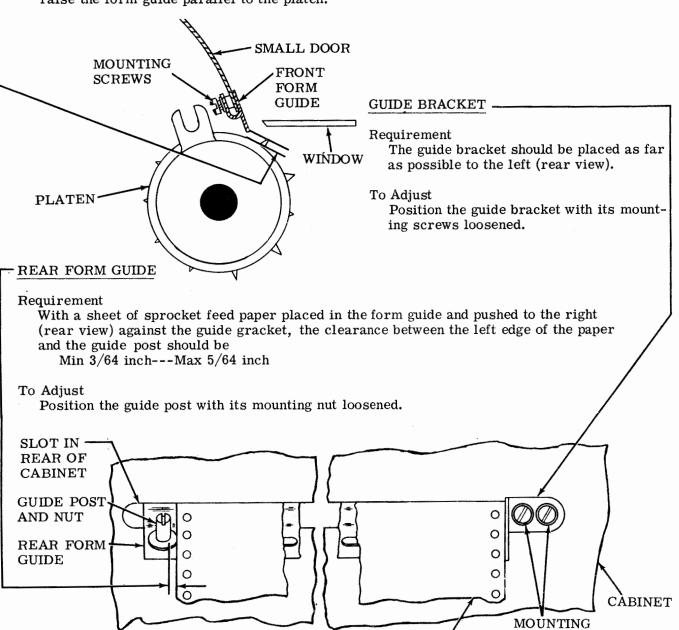
FRONT FORM GUIDE

Requirement

With typing unit in cabinet and large and small doors latched, clearance between the lower edge of the front form guide and the platen should be
Min 3/64 inch---Max 5/64 inch

To Adjust

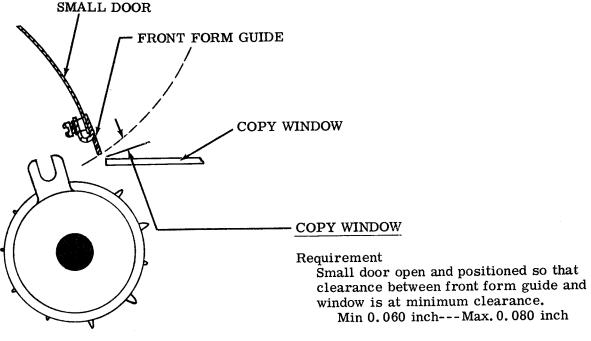
Loosen the form guide mounting screws. Press the paper guide against the platen, then raise the form guide parallel to the platen.



PAPER

SCREWS

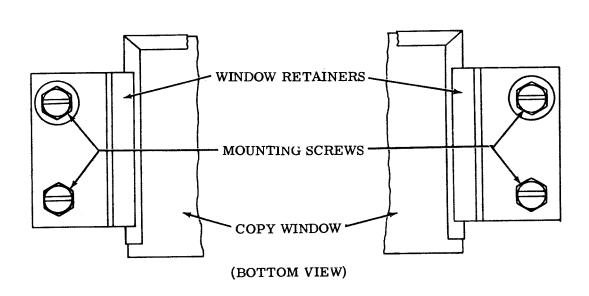
2.05 Form Guide (continued)



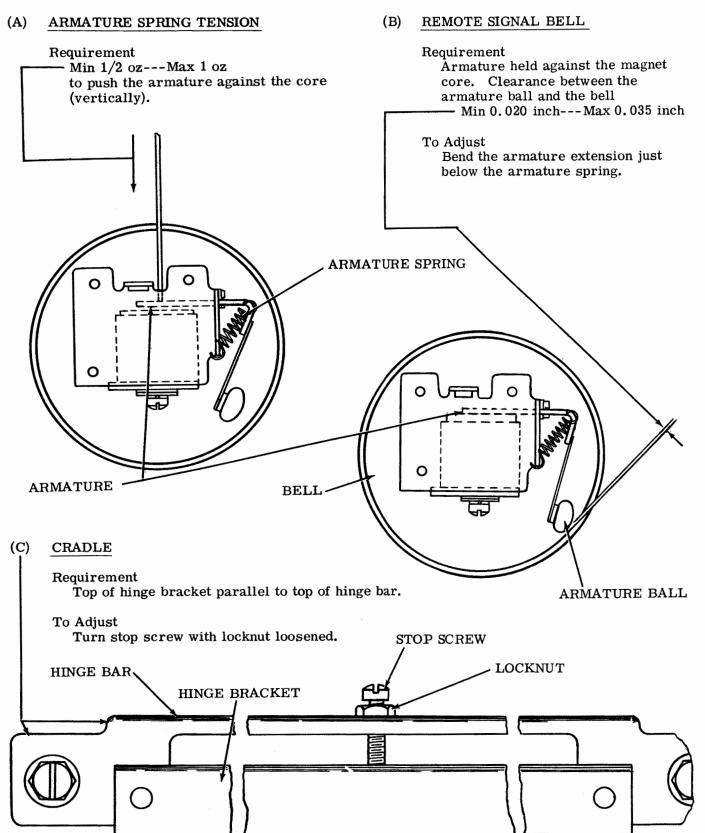
(LEFT SIDE VIEW)

To Adjust
Position window with four window
retainer mounting screws loosened.

Note: If stapled paper is used, staples should pass freely through slot. If they do not, increase clearance as required.



2.06 Signal Bell and Cradle



2.07 End-Of-Form Alarm Mechanism and Low-Paper and Paper-Out Switch Assembly

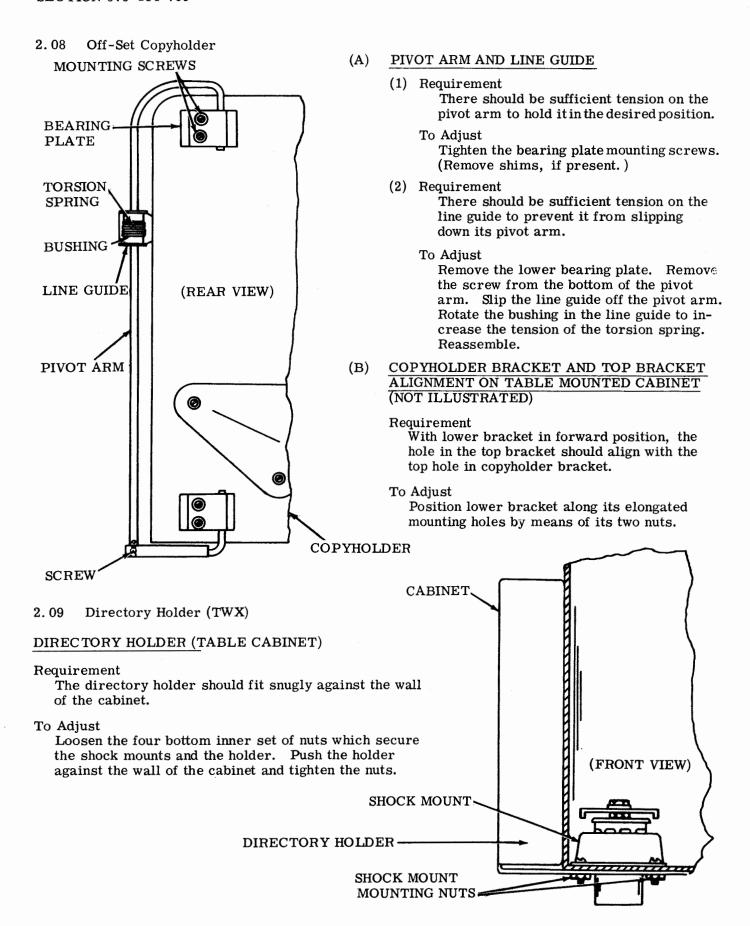
END-OF-FORM LEVER

Requirement

End-of-form lever should move freely between typing unit and paper guide on the cabinet. Check with dome closed and small door open.

To Adjust Position end-of-form lever forward or backward with its clamp screws loosened and up or down with end-of-form assembly mounting screws loosened. END-OF-FORM LEVER CLAMP SCREWS SWITCH PAPER GUIDE TYPING UNIT

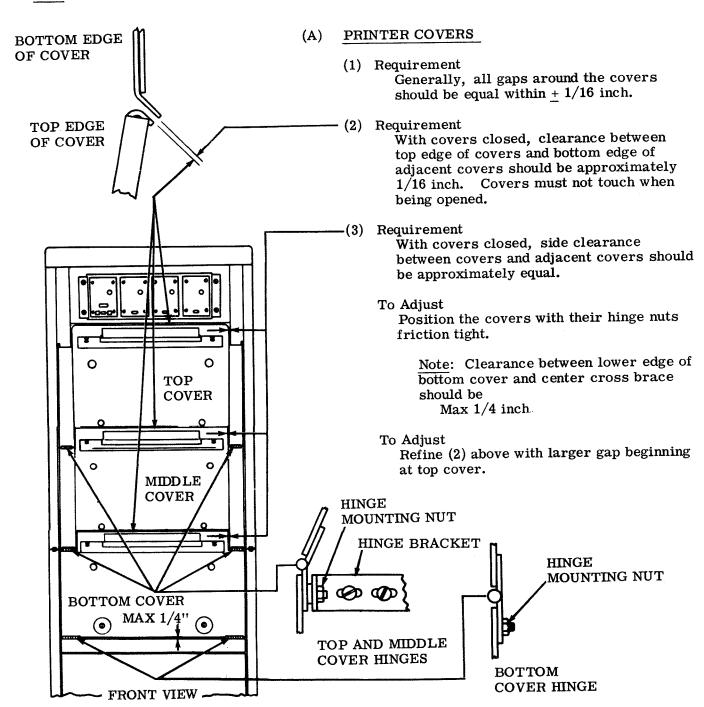
MOUNTING BRACKET SWITCH ASSEMBLY Requirement Min 1/4 oz---Max 1-1/2 oz to pull the low-paper and paper-out levers up to point where switches operate. PAPER-OUT LEVER LOW-PAPER LEVER



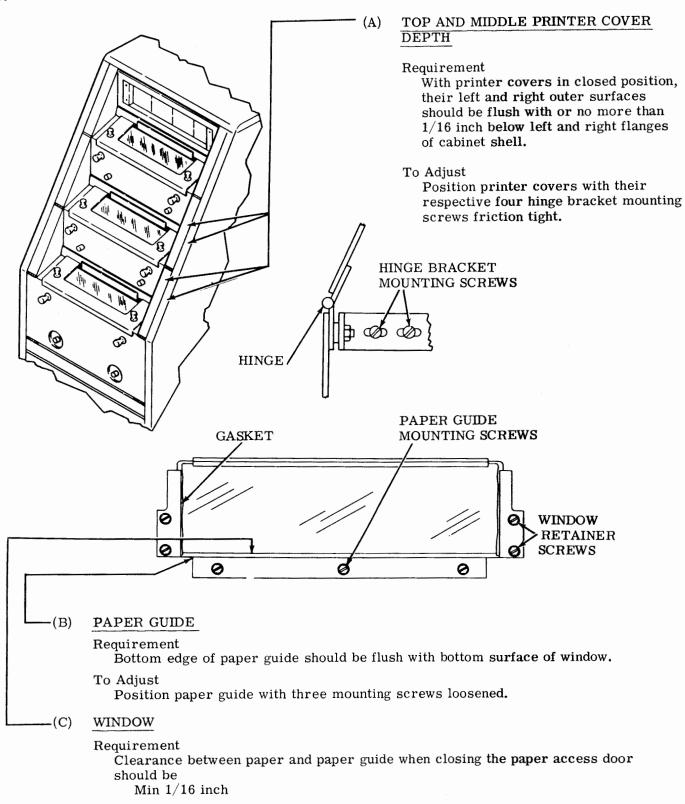
LBAC — 28 LA Teletypewriter Cabinets

2. 10 Printer Cover

Note: Rest cabinet on a level floor when making the following adjustments.



2.11 Printer Cover continued



To Adjust

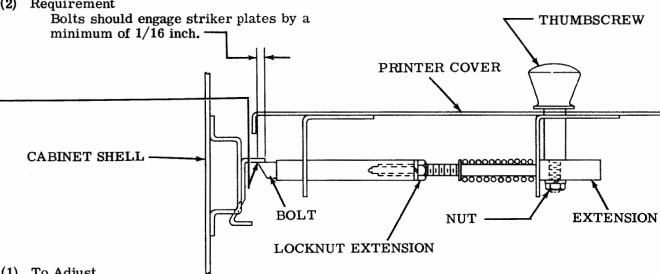
Position window with four window retainer screws loosened. Make sure gasket is between glass window and metal surface.

2.12 Cover Latches

PRINTER COVER LATCHES

(1) Requirement With cover in closed position, bolts should touch striker plates.

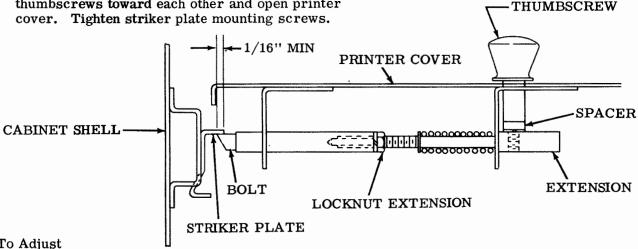
(2) Requirement



(1) To Adjust

With cover open and striker plate mounting screws friction tight, move striker plates toward front of cabinet. Close cover and open paper access door. Position striker plates to meet (1) above. Close paper access door. Carefully move printer cover thumbscrews toward each other and open printer cover. Tighten striker plate mounting screws.

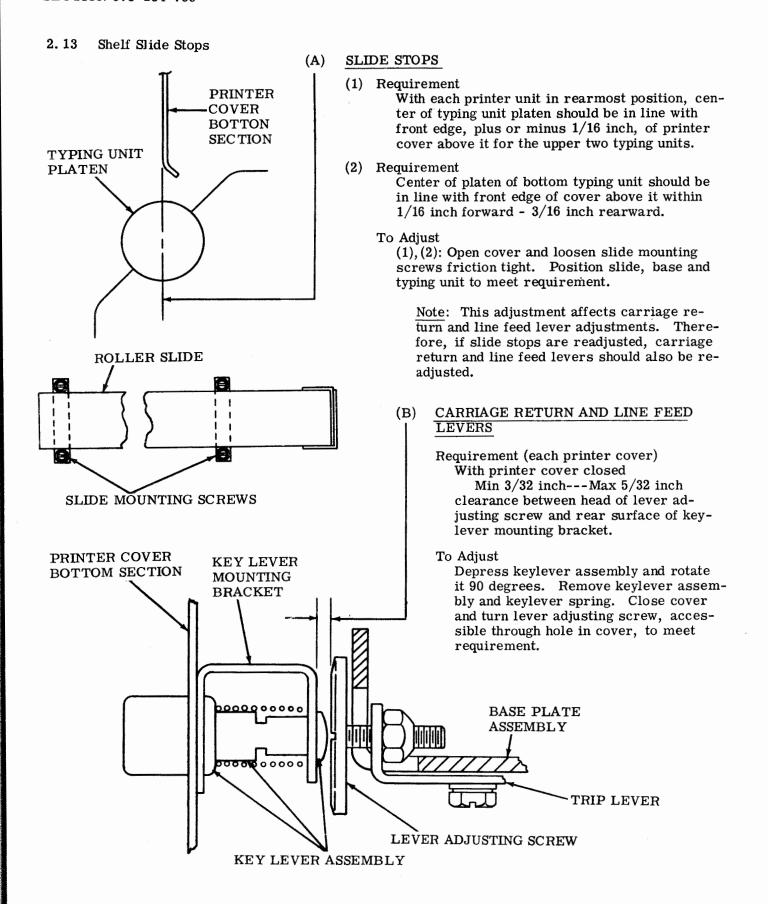
MIDDLE AND TOP COVER LATCHES



(2) To Adjust

Close cover and open paper access door. Remove cover thumbscrews and their lockwashers from extensions. With their locknuts loose, rotate extensions to move bolts right or left as required. Align tapped hole in extension with hole in cover. Replace thrumbscrews and lockwashers. Tighten extension locknuts.

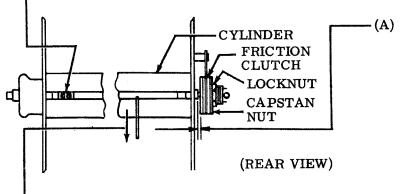
LOWER COVER LATCHES



2.14 Paper Winder

(C) PAPER SPINDLE CYLINDER REGULATING BUSHING

To control the tension of the cylinder on the right hub, position regulating bushing to the right or left with its set screw loosened.



(B) FRICTION CLUTCH TORQUE

Requirement

After running paper winder ten minutes with cylinder held stationary it should require
Min 5 ozs---Max 7 ozs
to hold cylinder stationary against rotation
by driven pulley.

To Adjust

Position capstan nut with locknut loosened.

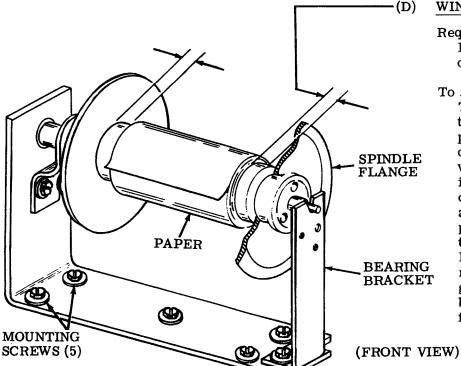
PAPER SPINDLE SHAFT ENDPLAY

Requirement

Clearance between shoulder of shaft and friction drive assembly should be 1/32 inch. Left end of shaft should touch wick in friction drive assembly.

To Adjust

Position bearing bracket by means of elongated mounting holes.



WINDER ASSEMBLY

Requirement

Equal clearance between edges of paper and spindle flanges.

To Adjust

Thread paper around platen of typing unit. Grasp edges of paper as it comes around top of platen roller and align them with edges of paper being fed into platen. Pull top free edge of paper so there is no slack and lock paper on platen. Feed paper manually until it can be threaded onto winder cylinder. Move winder assembly with its mounting screws loosened to get equal clearance between both edges of paper and spindle flanges.

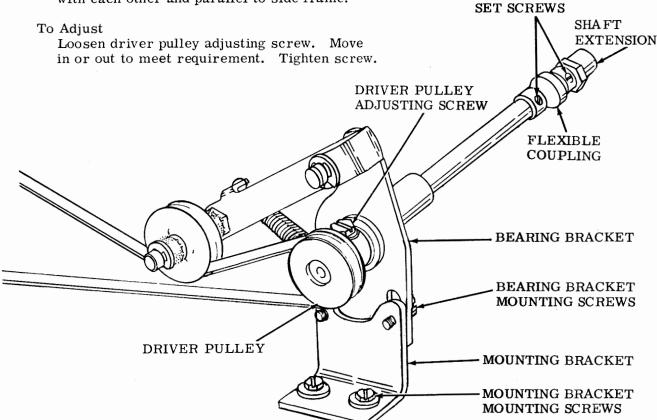
2.15 Paper Winder continued

(A) PULLEY ALIGNMENT

Requirement

with each other and parallel to side frame.

Projected plane of each pulley should be in line



(B) BEARING BRACKET ADJUSTMENT

Note: The intermediate gear bracket adjustment should be made before making this adjustment. See appropriate section covering adjustments for keyboard and base.

Requirement

Bearing bracket should be position so that center line of intermediate shaft extension will coincide with center line of intermediate shaft in both horizontal and vertical planes.

To Adjust

- (1) Horizontal Loosen mounting bracket screws to friction tight. Loosen set screws in flexible coupling and slide coupling toward pulley end of shaft so opposite end of shaft is visible. Position bracket to align shaft extension with intermediate shaft on keyboard base.
- (2) Vertical Loosen bearing bracket mounting screws to friction tight. Position bearing bracket to align shaft extension with intermediate shaft on keyboard base. Retighten screws. Connect shaft and shaft extension by replacing and fastening flexible coupling in position.

LPC (Skintight) — 28A Teletypewriter Cabinets

2.16 Dome

(A) DOME CENTERING

(1) Requirement

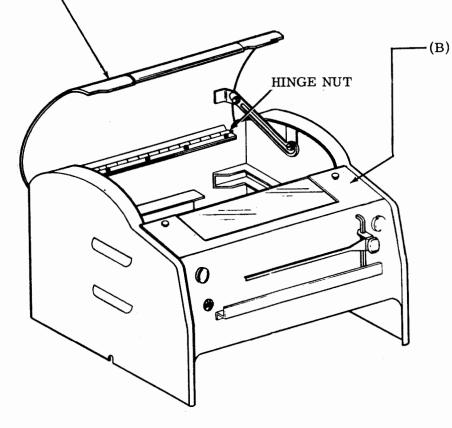
The dome should be centered from side to side on the cabinet.

(2) Requirement

Front edge of dome should fit flush to front edge of cabinet.

To Adjust

Position the dome with the six dome hinge nuts loosened.



SMALL DOOR

(1) Requirement

Door should be flush with
to 3/32 inch above dome.

(2) Requirement

Door should be parallel to dome within 3/32 inch.

To Adjust
Position door with the
four hinge extension nuts
loosened.

For the following adjustments see Par. 2.03.

- (C) PAPER GUIDE
- *(D) WINDOW Refer to requirement below and Par. 2.03.
- $\begin{array}{cc} \text{(E)} & \underline{\text{INDICATOR AND COPY}} \\ & \underline{\text{LAMPS}} \end{array}$
- (F) COPYHOLDER

*(D) WINDOW (Also see Par. 2.03)

Requirement

As small door is opened, it should clear projection on rear lid by

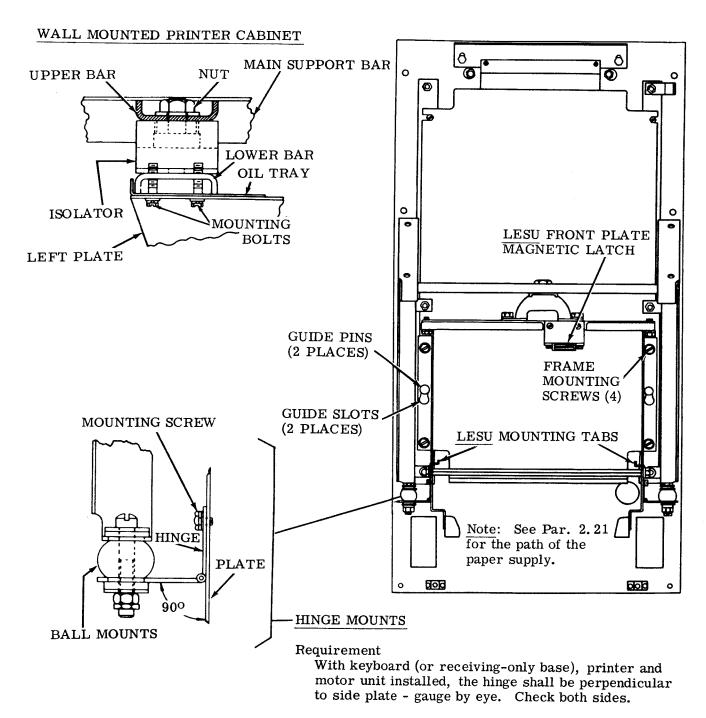
Min 0.005 inch--- Max 0.015 inch

To Adjust

Position the window with its mounting screws (4) loosened.

LPC (Multiple Mount) — 28L and 28M Teletypewriter Cabinets

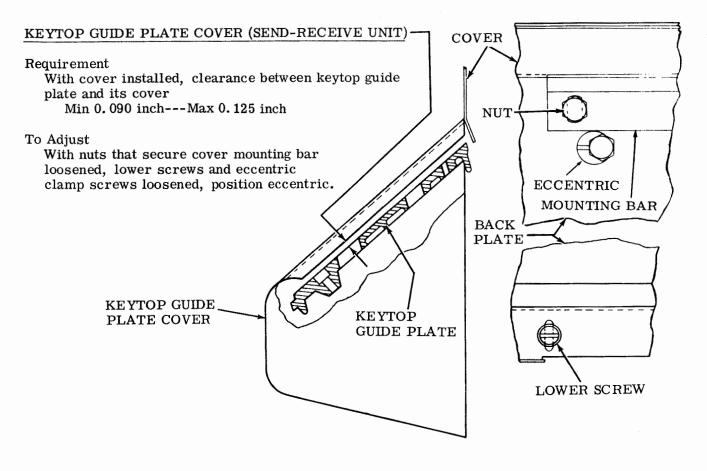
2.17 Hinge Mount



To Adjust

Position right and/or left hinge upward or downward with its mounting screws loosened.

2.18 Keytop Guide Plate



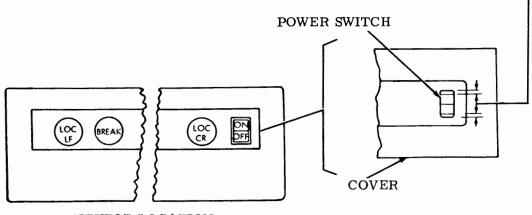
KEYTOP COVER (RECEIVE-ONLY UNIT) -

Requirement

With cover in place, power switch shall be centrally located in its cover opening.

To Adjust

With nuts that secure cover mounting bar loosened, lower screws and eccentric clamp screws loosened, position eccentric.



KEYTOP LOCATION

2. 19 Keytop Guide Plate continued

KEYTOP GUIDE AND COVER (SEND-RECEIVE UNITS)-

(1) Requirement

With cover in place, clearance between rear edge of keytop guide and lip of cover
Min 0.090 inch---Max 0.0125 inch

(2) Requirement

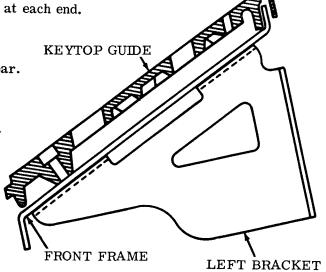
Clearance should be approximately equal at each end.

(1) To Adjust

With nut which secures large central mount loosened, position upper support bar.

(2) To Adjust

With four bolts that secure lower support bar loosened, position lower support bar.



COVER

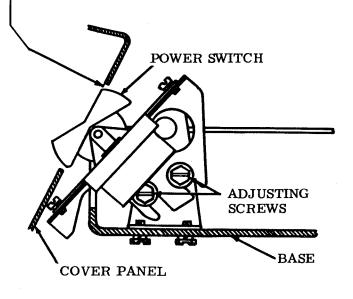
POWER SWITCH

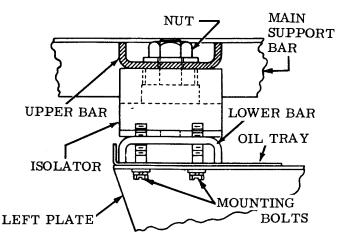
Requirement

With cover panel in place, surface of switch toggle lever (1) in ON position (2) in OFF position should be flush with top surface of cover (gauge by eye).

To Adjust

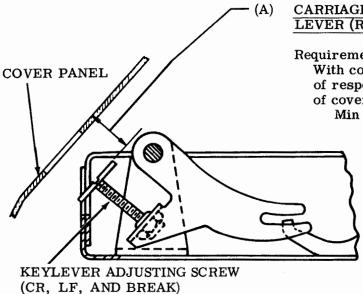
With cover removed, position switch with its adjusting screws loosened.





 $\frac{\text{Note:}}{\text{needed}}$. Should additional adjustment be $\frac{\text{needed}}{\text{needed}}$, loosen bolts securing large central mounting bracket, and position upper bar.

Carriage Return, Line Feed, Break Lever and Door Hinge 2.20



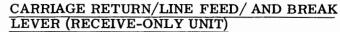
WINDOW DOOR HINGE MOUNTS (B)

Requirement

Window door should lie flat on right and left supporting edge of cabinet (gauge by eye).

To Adjust

With hinge mounting nuts (2) loosened, position the door.



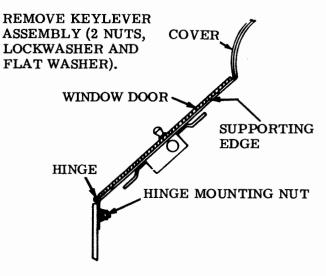
Requirement

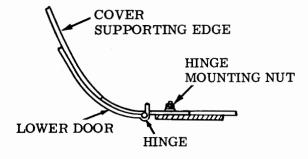
With cover in place, clearance between top surface of respective lever adjusting screw and outer surface

Min 7/8 inch---Max 15/16 inch

To Adjust

Remove each keylever assembly (3) from cover (see Par. 2.18). Then replace cover and position each adjusting screw through hole in cover (slot in screw should be horizontal after adjusting).





LOWER DOOR LATCHES (D)

Requirement

Door should latch firmly and lie flat against cover.

To Adjust

With magnetic latch mounting screws loosened, position the latch.

SMALL COPYHOLDER (WITH LINE GUIDE) Requirement — Refer to Par. 2.03.

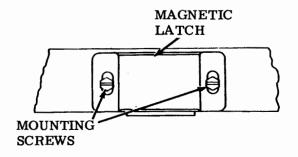
(C) LOWER DOOR HINGE MOUNTS

Requirement

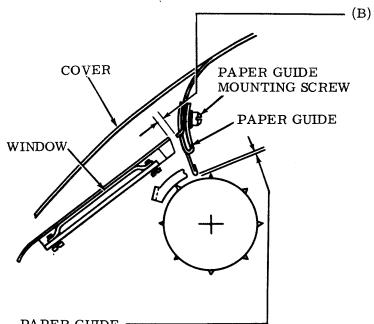
Door should lie flat against cover.

To Adjust

With each hinge mounting nut (2) loosened, position the door.



2.21 Window and Paper Guide



WINDOW

Requirement

With small door closed, parallel clearance between paper guide and edge of window

Min 0.080 inch---Max 0.110 inch

To Adjust

With window clamp mounting screws loosened (4), position the window.

PATH OF PAPER

(A) PAPER GUIDE

Requirement

With typing unit in place, large and small doors latched, clearance between paper guide and platen

Min 3/64 inch---Max 5/64 inch

To Adjust

With paper guide mounting screws loosened, position guide parallel to platen.

