

35 CABINET FOR AUTOMATIC SEND-RECEIVE

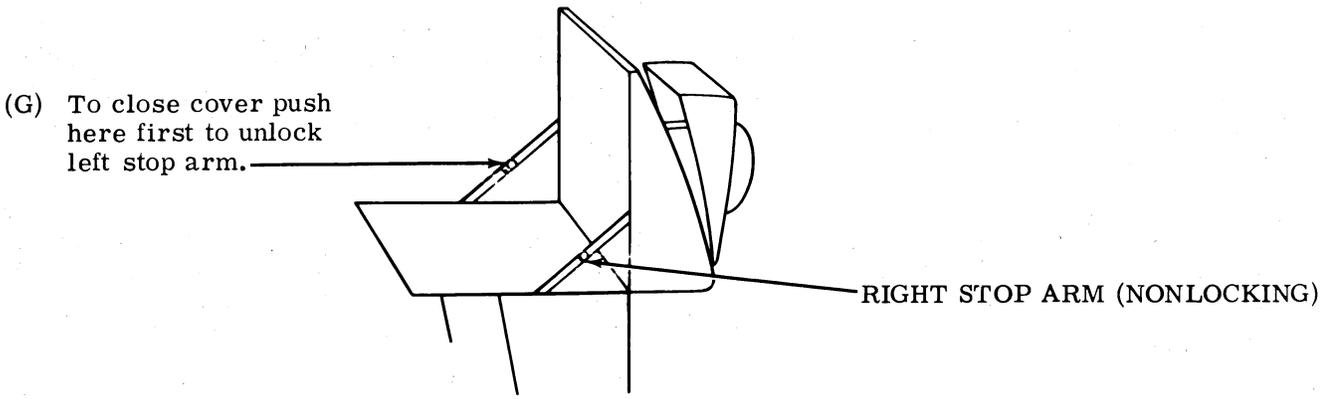
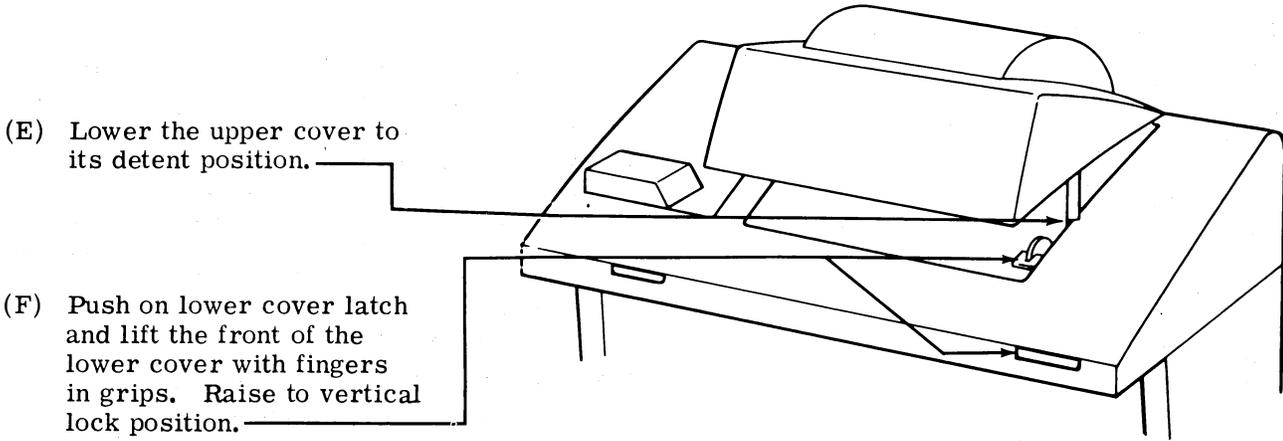
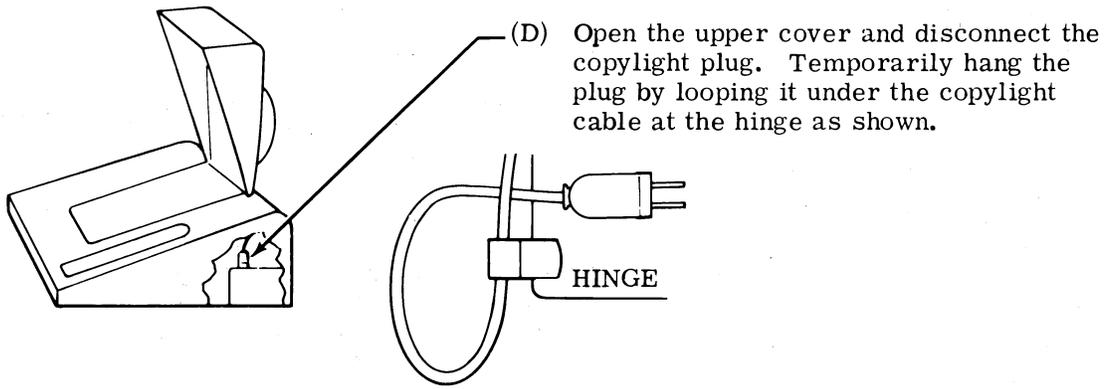
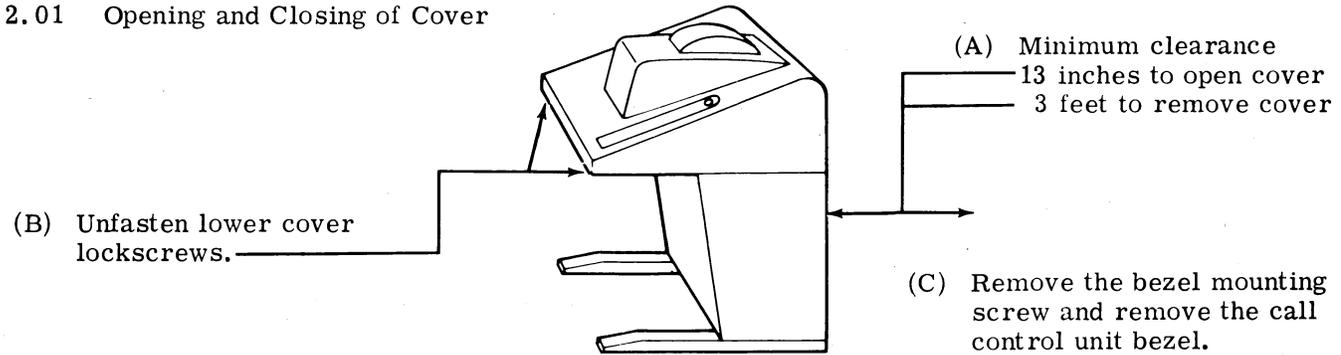
TELETYPEWRITER SET

ADJUSTMENTS

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Bubble latch plate (preliminary)	6	1. GENERAL	
Bubble position front and rear (final)	10	1.01 This section is reissued to update, add recent engineering changes and incorporate TCN1745. Arrows in the margins indicate changes and additions.	
Bubble position front and rear (preliminary)	6	1.02 The adjustments in this section are arranged in a sequence that should be followed if a complete readjustment is undertaken. A complete adjusting procedure should be read before attempting to make the adjustment. After an adjustment is completed, be sure to tighten any nuts or screws that may have been loosened, unless otherwise instructed.	
Call control unit height	11	1.03 The adjusting illustrations indicate tolerances, positions of moving parts, spring tensions, and the angle at which scales should be applied. The tools required to make adjustments and check spring tensions are not supplied with the equipment, but are listed in another section. Springs which do not meet the requirements, and for which there are no adjusting procedures, should be discarded and replaced by new springs.	
Call control unit mounting bracket	11	1.04 Where adjustment instructions call for removal of components, assemblies, subassemblies or parts, all adjustments which the removal of the parts might facilitate should be made before the parts are replaced or as the equipment is reassembled. When a part mounted on shims is removed, the number of shims and their location should be noted so that the identical pile-up can be made when the part is replaced.	
Cleaning cabinets	16	1.05 References made to left or right, up or down, or front or rear apply to the unit in its normal operating position as viewed from the operator's position in front of the unit.	
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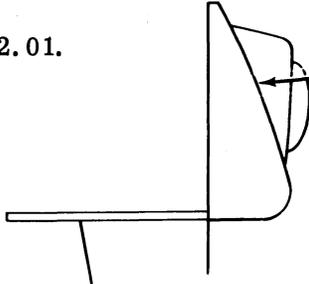
2. ADJUSTMENT

2.01 Opening and Closing of Cover



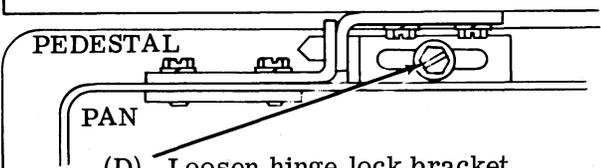
2.02 Opening and closing of Cover (continued)

(A) Follow instructions for opening of cover in Par. 2.01.



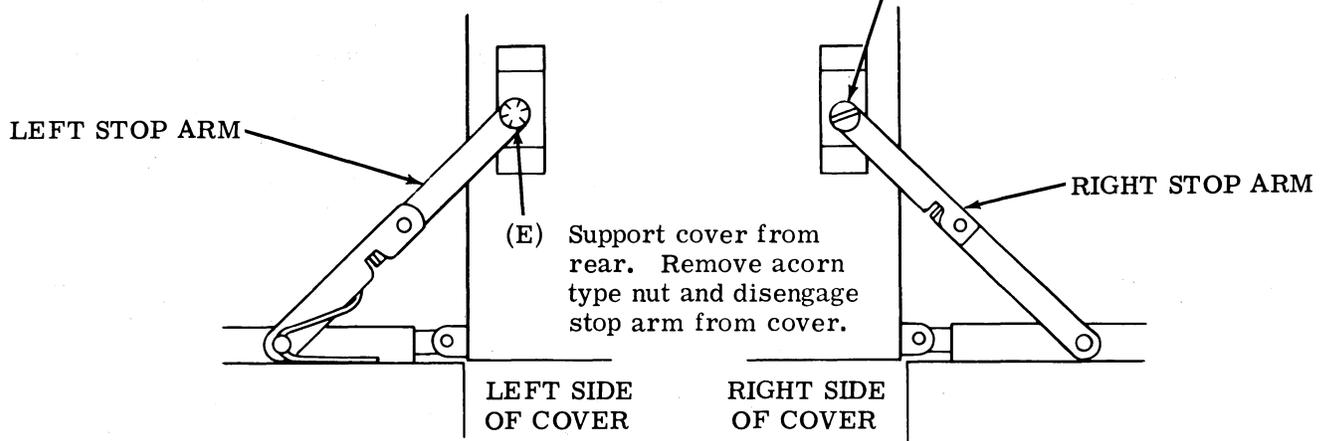
(B) Close upper cover to fully closed latched position.

INSIDE BACK OF COVER IN OPEN POSITION (VIEW LOOKING STRAIGHT DOWN)

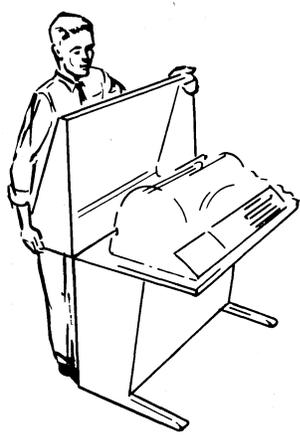


(D) Loosen hinge lock bracket mounting screw and slide bracket away from hinge.

(C) Remove the upper retaining shoulder screw from the right hand stop arm bracket.



(E) Support cover from rear. Remove acorn type nut and disengage stop arm from cover.



(F) Supporting the cover from the rear, remove by sliding sideways to separate hinges. The cover may be grasped as shown.

Note: Cover weighs approximately 39 pounds.

To replace cover, reverse removal procedure.

2.03 Upper Cover Arrangement

(B) UPPER COVER CLEARANCE (LATCHED)

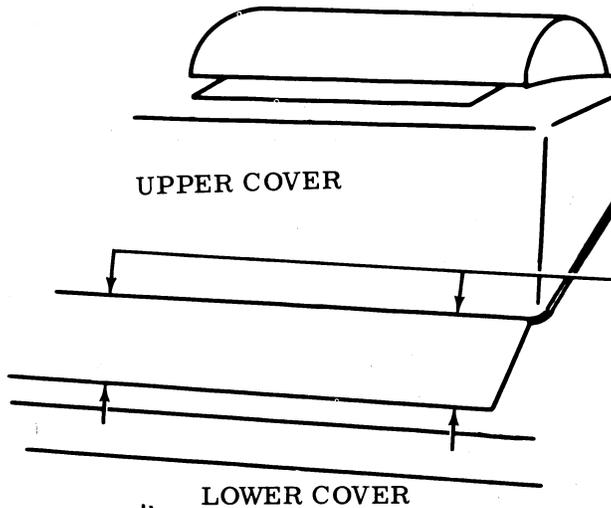
Requirements

- (1) Rubber grommets should be slightly compressed.
- (2) There should be no metal-to-metal contact between upper and lower covers.
- (3) Clearance between upper cover and lower cover should be 0.090 inch maximum at sides and 0.200 inch maximum at rear.

To Adjust

Position cover with two screws, that mount each hinge to lower cover, loosened.

Note: This adjustment should be made in conjunction with the latch adjustments.



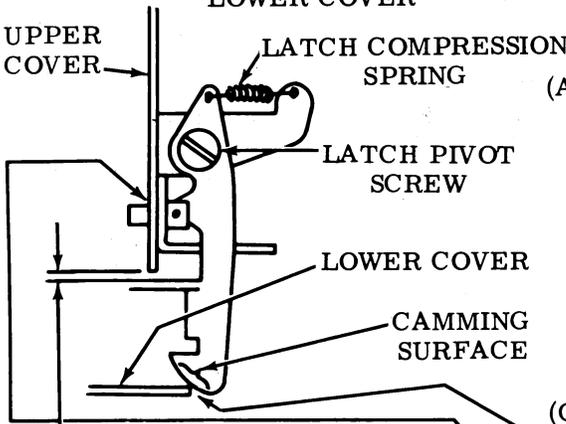
(A) UPPER COVER POSITION (FRONT TO REAR)

Requirement

Clearance between front of upper cover and edge of keyboard opening in lower cover (right and left ends of window depression) should be
Min 4-1/2 inches---Max 4-5/8 inches

To Adjust

Position cover with three screws, at each hinge that mount upper cover, loosened. See figure below.



(C) LATCH

Requirements

- (1) Without depressing latch buttons as upper cover is lowered, camming surfaces of latches should contact lower cover.
- (2) Latch button should not become disengaged from guide slot in cover when fully depressed.
- (3) All requirements of upper cover clearance adjustment should be met. Upper cover should latch closed with slight compression of rubber bumpers and no metal-to-metal contact.

To Adjust

Position both latches with their pivot screws loosened.

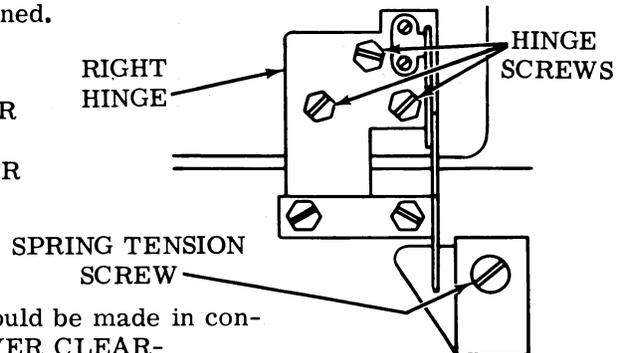
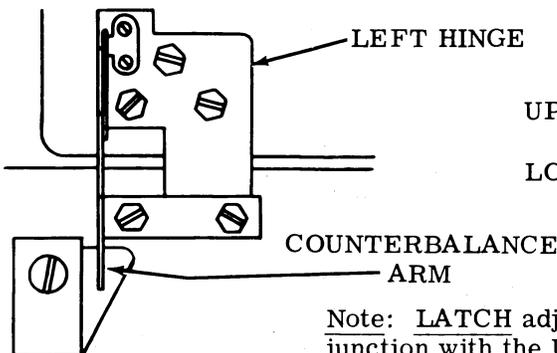
(D) COUNTERBALANCE ARM

Requirements

- (1) There should be no free fall of upper cover from any position to which it is opened.
- (2) There should be some pressure required to close upper cover.

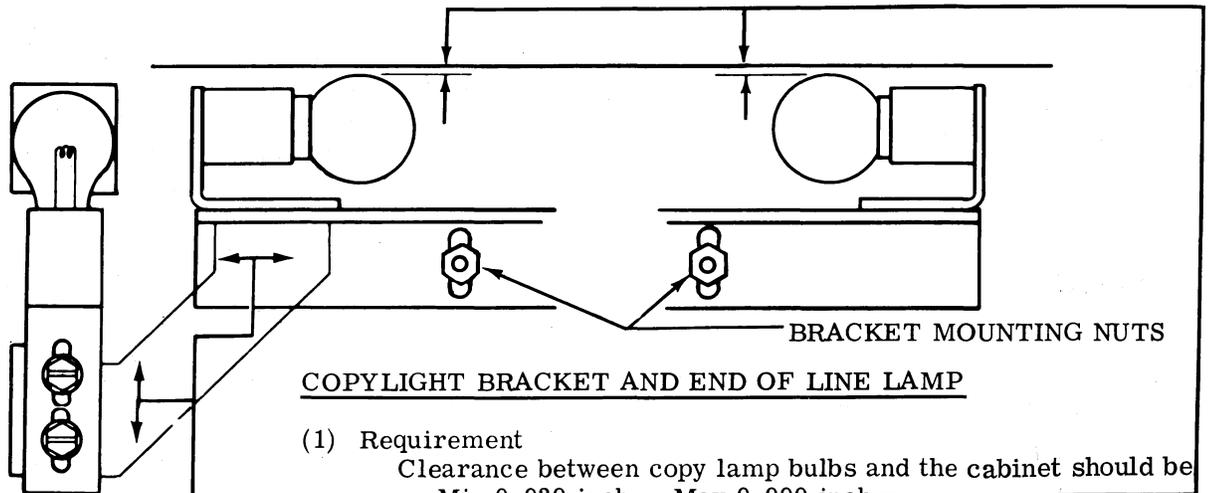
To Adjust

Tighten spring tension adjusting screws.



Note: LATCH adjustment should be made in conjunction with the UPPER COVER CLEARANCE (Par. 2.03).

2.04 Copyright and Line Guide Copyholder



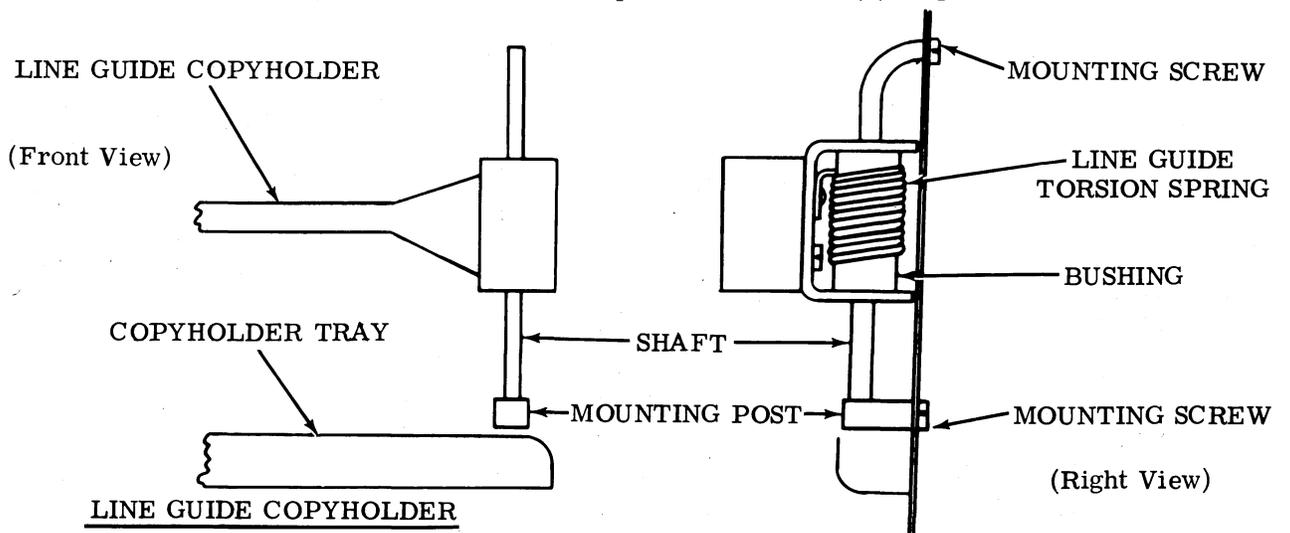
COPYLIGHT BRACKET AND END OF LINE LAMP

(1) Requirement
 Clearance between copy lamp bulbs and the cabinet should be
 Min 0.030 inch---Max 0.090 inch

To Adjust
 Loosen the two bracket mounting nuts and position the copy
 lamp bracket to meet (1) Requirement.

(2) Requirement
 Filament of end of line lamp bulb should be centered under
 red lamp cover.

To Adjust
 Loosen the two bracket mounting screws and position the end
 of line lamp bracket to meet (2) Requirement.



LINE GUIDE COPYHOLDER

Requirement
 Tension of line guide copyholder should be just sufficient to hold copy in
 place and prevent the line guide copyholder from slipping down the shaft.

To Adjust
 Remove two shaft mounting screws from inside cover and take off line guide
 copyholder. Remove line guide from shaft and rotate bushing in direction
 to increase or decrease torsion spring tension against line guide. Reas-
 semble line guide and reinstall on cover.

2.05 Bubble and Window Position

Note: Adjustments on this page are preliminary.
Final adjustments to be made with typing unit in place.

(C) WINDOW (PRELIMINARY)

(1) Requirement

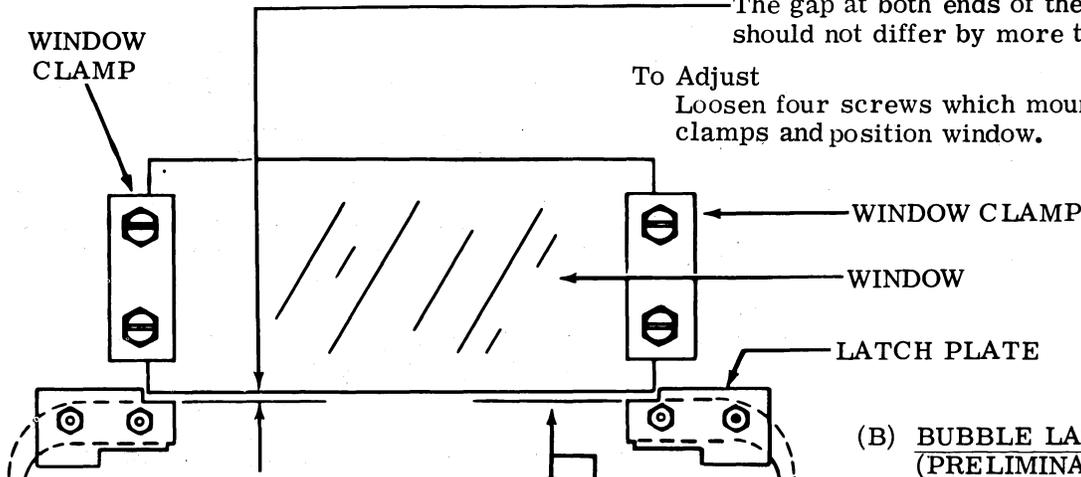
Clearance between rear edge of window and front edge of paper guide on bubble should be
Min 0.045 inch---Max 0.095 inch

(2) Requirement

The gap at both ends of the paper guide should not differ by more than 0.030 inch.

To Adjust

Loosen four screws which mount two window clamps and position window.



(B) BUBBLE LATCH PLATE (PRELIMINARY)

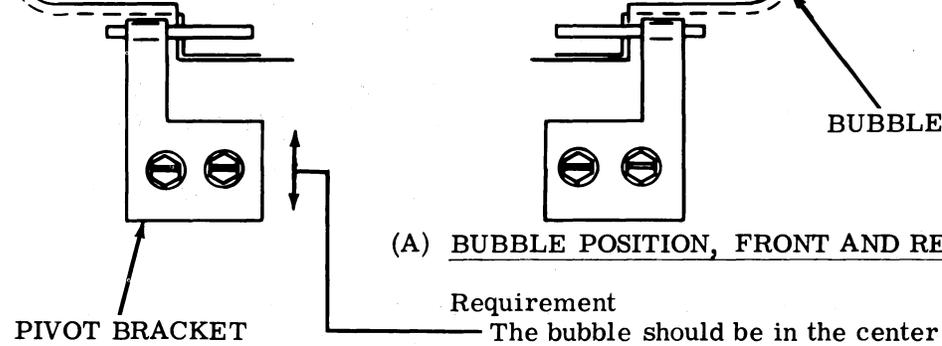
Requirement

Bubble should not open when upper cover is raised. Bearing surfaces of latch plates should protrude a minimum beyond edge of upper cover consistent with this requirement. Edges of cover and plates should be parallel.

To Adjust

Position latch plates with two nuts that fasten each plate to upper cover loosened.

(A) BUBBLE POSITION, FRONT AND REAR (PRELIMINARY)



Requirement

The bubble should be in the center of its frontmost and rear-most positions.

To Adjust

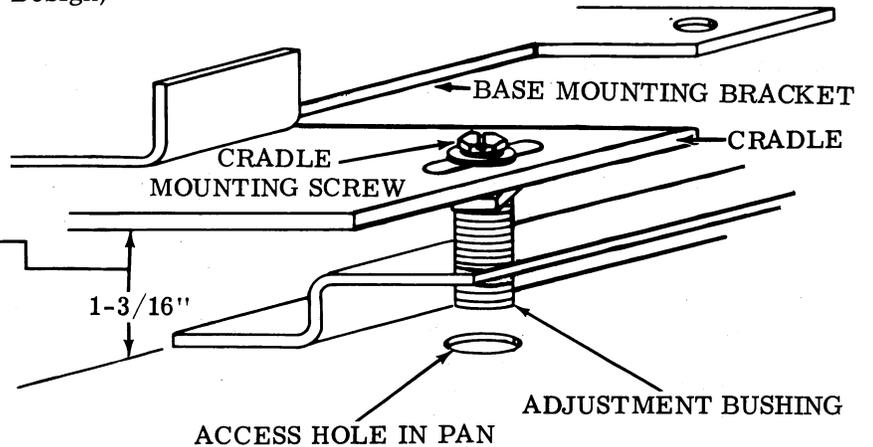
Loosen two mounting screws that mount each pivot bracket and position bubble, tighten screws.

2.06 Cradle Adjustments (Earlier Design)

(A) CRADLE HEIGHT
(PRELIMINARY)

Requirement
Distance from pan to top of cradle at four corners should be 1-3/16 inches.

To Adjust
Loosen four cradle mounting screws. Turn adjustment bushing from beneath cabinet through access holes. Tighten cradle mounting screws.



(B) CRADLE HEIGHT (FINAL)

Note: Make this adjustment with motor and typing unit in place.

(C) CRADLE FRONT TO REAR

Note: Make this adjustment with motor and typing unit in place.

(1) **Requirement**
Clearance between cover and front edge of keyboard should be
Min 0.060 inch---Max 0.090 inch

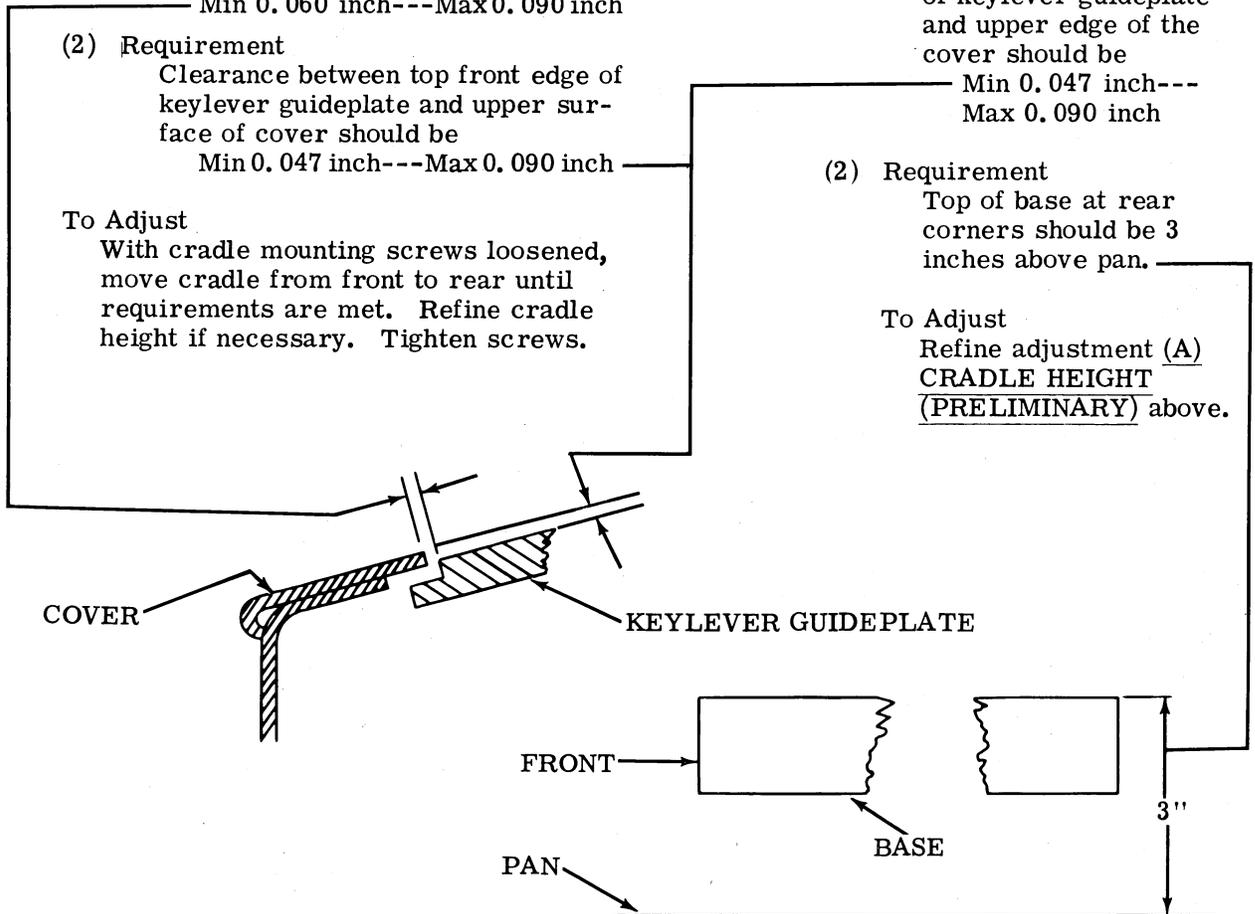
(2) **Requirement**
Clearance between top front edge of keylever guideplate and upper surface of cover should be
Min 0.047 inch---Max 0.090 inch

To Adjust
With cradle mounting screws loosened, move cradle from front to rear until requirements are met. Refine cradle height if necessary. Tighten screws.

(1) **Requirement**
Clearance between top of keylever guideplate and upper edge of the cover should be
Min 0.047 inch---
Max 0.090 inch

(2) **Requirement**
Top of base at rear corners should be 3 inches above pan.

To Adjust
Refine adjustment (A) CRADLE HEIGHT (PRELIMINARY) above.



2.07 Cradle Adjustments (Later Design)

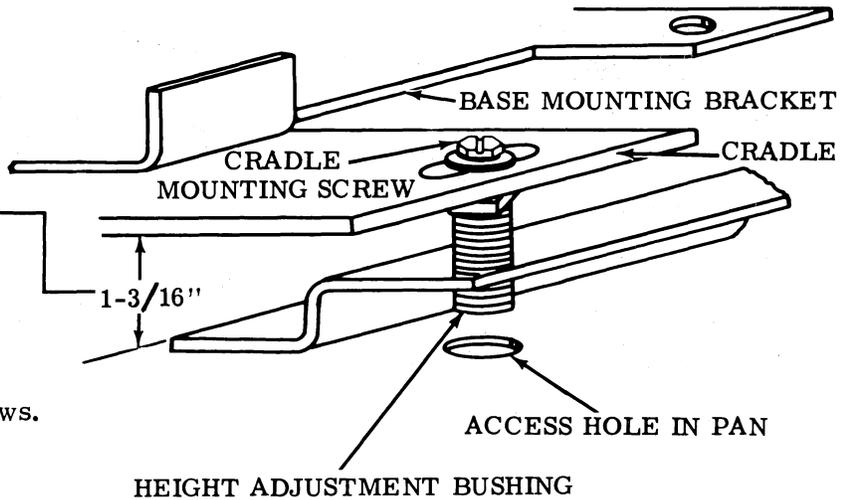
(A) CRADLE HEIGHT (PRELIMINARY)

Requirement

Distance from pan to top of cradle at four corners should be 1-3/16 inches.

To Adjust

Loosen four cradle mounting screws. Turn adjustment bushings from beneath cabinet through access holes. Tighten cradle mounting screws.



(B) CRADLE HEIGHT (FINAL)

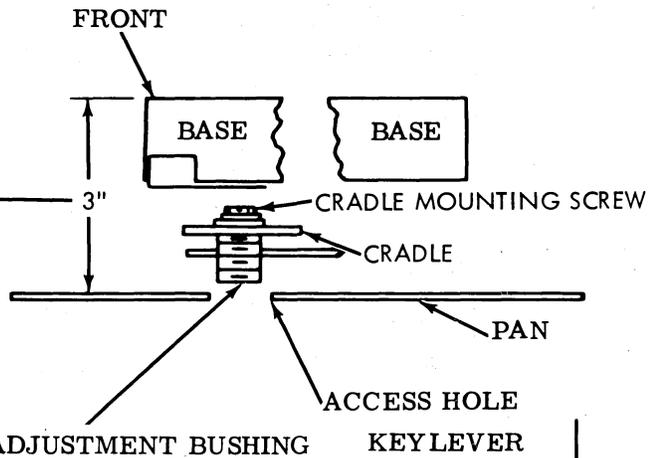
Requirement

Motor and typing unit in place. Distance from pan to top of base at four corners should be

Min 2-15/16 inch---Max 3-1/16 inch

To Adjust

Loosen four cradle mounting screws. Turn adjustment bushings from beneath cabinet through access hole until requirement is met.



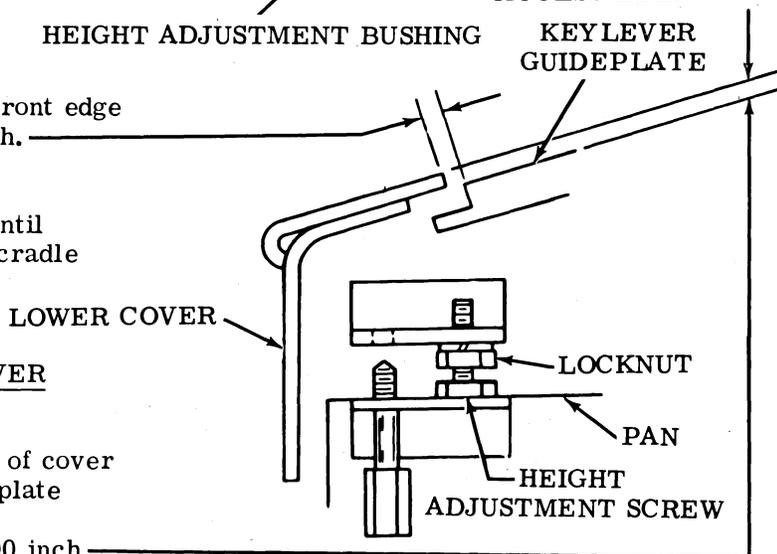
(C) CRADLE FRONT TO REAR

Requirement

Clearance between cover and front edge of keyboard should be 1/16 inch.

To Adjust

Move cradle to front or rear until requirement is met. Tighten cradle mounting screws.



(D) FRONT HEIGHT OF LOWER COVER

Requirement

Clearance between upper edge of cover and top edge of keylever guideplate should be

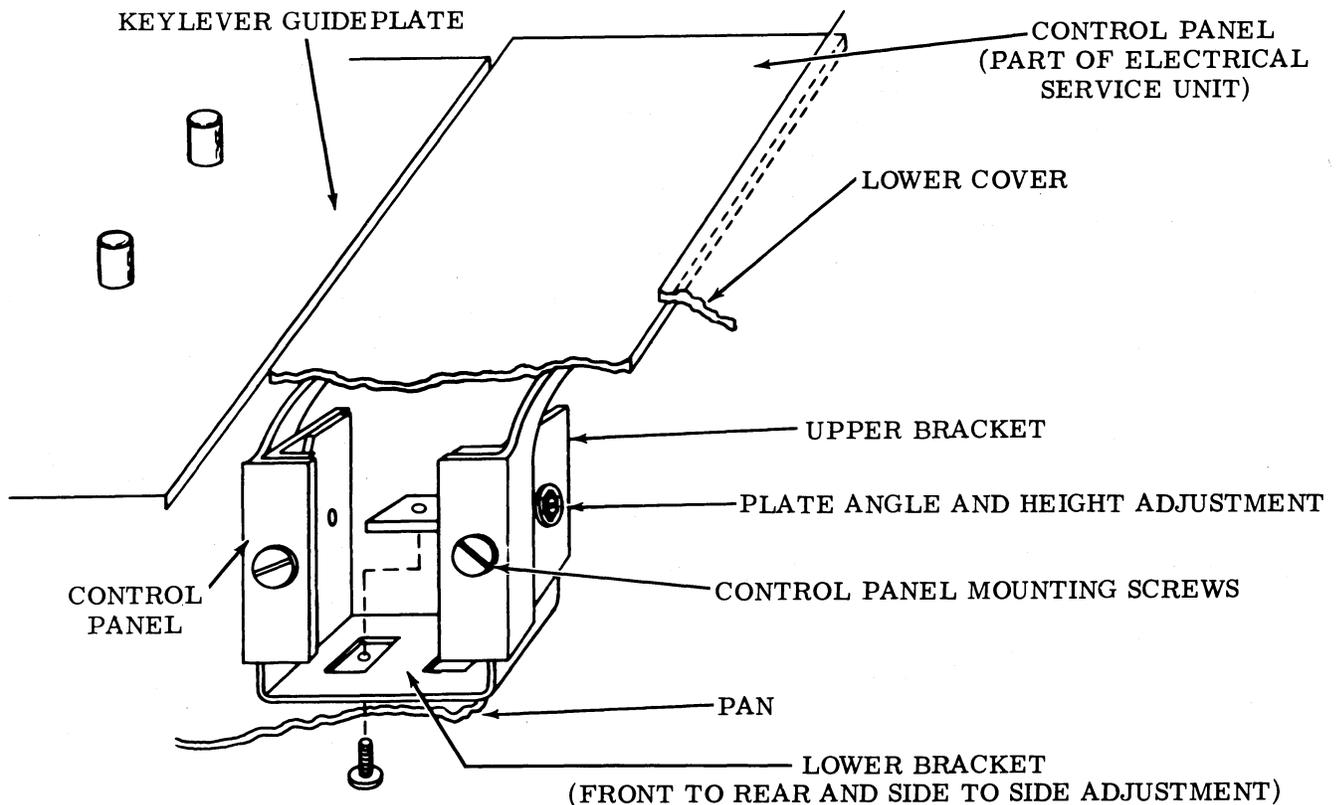
Min 0.047 inch---Max 0.090 inch

To Adjust

Loosen locknut on height adjustment screw. Turn screw until requirement is met. Tighten locknut.

Note: This adjustment should be made in conjunction with the CRADLE FRONT TO REAR (Par. 2.07).

2.08 Control Panel



Note: Adjustments on this page may be disturbed by jarring the cabinet or base. Before making adjustment, seat keyboard base firmly on centers of rubber mounts.

CONTROL PANEL

(1) Requirement

Clearance between control panel tops and under surface of lower cover should be
 Min panels may be touched but not moved in excess of 0.015 inch
 by lower cover---Max 0.060 inch

(2) Requirement

Clearance between keylever guideplate and adjacent control panels should be
 Min 0.060 inch---Max 0.090 inch

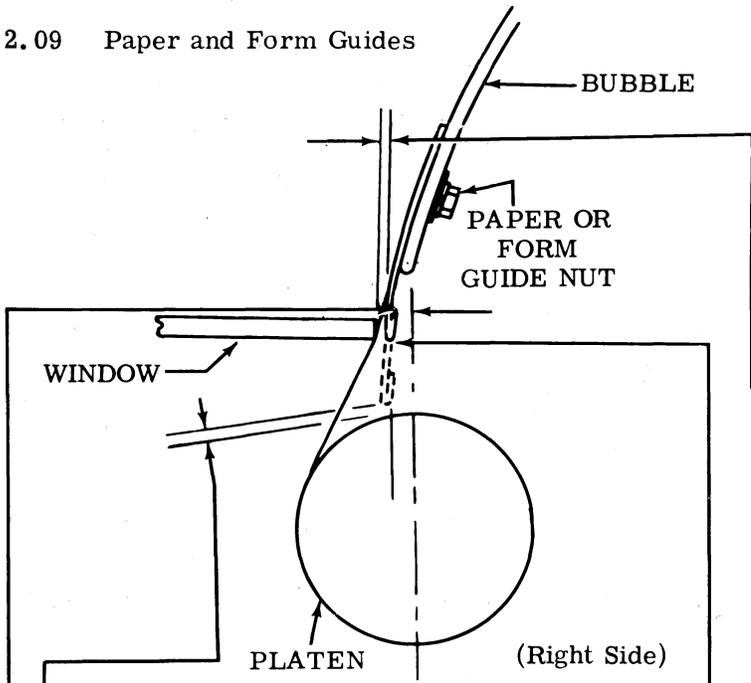
To Adjust (Earlier Design)

Loosen lower bracket mounting screws to friction tight and position brackets from left to right and front to rear. Loosen upper bracket mounting screws and adjust height and angle of control panels. Tighten screws. Make certain that cover rests on its support surfaces and not on control panels. Refine cradle height adjustment if necessary until top of keylever guideplate is flush with top control panels.

To Adjust (Later Design)

Loosen lower bracket mounting screws to friction tight and position brackets from left to right and front to rear. Loosen upper bracket mounting screws to friction tight and raise brackets to uppermost position. Lower the cover to push control panels down to proper positions. Raise cover and tighten mounting screws.

2.09 Paper and Form Guides



(D) WINDOW (FINAL)

(1) Requirement - Friction Feed Paper Guide

Clearance between edge of window and paper guide should be

- Min 0.045 inch---
- Max 0.095 inch

(2) Requirement

Clearance should not differ at each end of paper guide by more than 0.030 inch

To Adjust

Loosen four screws that fasten window clamps (see Par. 2.05) and position window. Tighten screws.

(1) Requirement - Sprocket Feed Form Guide

Clearance between edge of window and form guide should be

- Min 0.045 inch---
- Max 0.095 inch

(2) Requirement

Clearance should not differ at each end of paper guide by more than 0.030 inch. If stapled stationery is used, clearance should be increased to allow four or more copies to pass freely through paper emission slot.

To Adjust

Same as friction feed To Adjust.

(C) PAPER AND FORM GUIDE

(1) Requirement - Friction Feed Paper Guide

Bottom edge of paper guide should be flush with bottom surface of window.

(2) Requirement - Sprocket Feed Form Guide

Clearance between form guide and platen should be

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

To Adjust

Position guide with three paper or form guide nuts loosened. Tighten nuts.

(A) BUBBLE POSITION FRONT AND REAR (FINAL)

Requirement

Front edge of paper or form guide should be about 1/4 inch in front of approximate center of platen. Form guide and bubble should clear all typing unit parts by at least 1/8 inch.

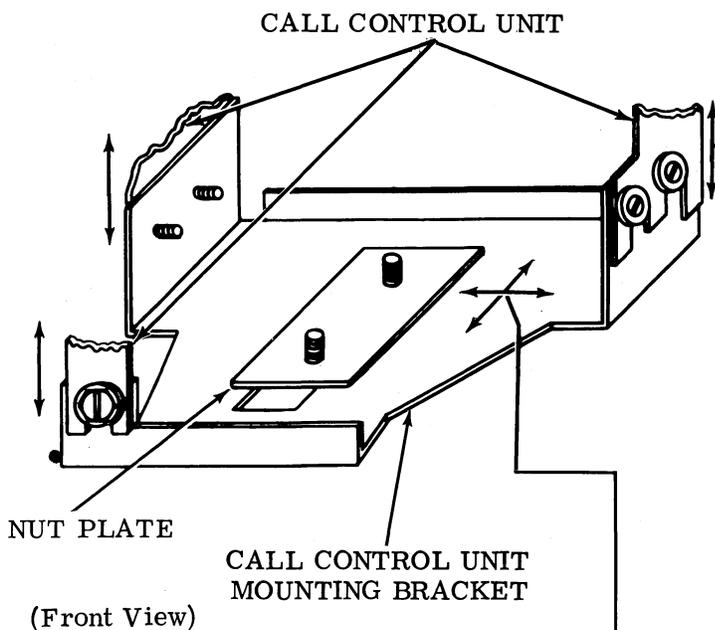
To Adjust

Loosen four mounting screws that mount bubble pivot brackets and position bubble (see Par. 2.05). Tighten screws.

(B) BUBBLE LATCH PLATE (FINAL)

Refine BUBBLE LATCH PLATE (PRELIMINARY) (Par. 2.05) if necessary.

2.10 Call Control Unit Apparatus Mounting Rack



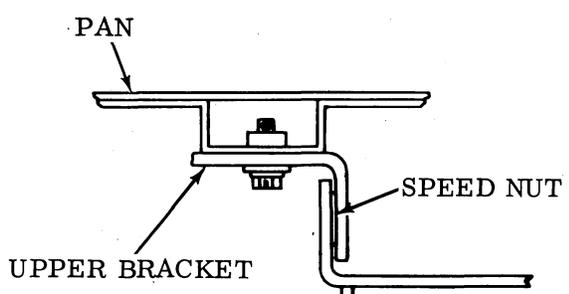
(B) CALL CONTROL UNIT HEIGHT

Requirement
 Enlarged bases of six pushbuttons on call control unit should protrude an equal amount through bezel. Call control lights should protrude through bezel equal amounts.

For units equipped with TOUCH-TONE® dials, the enlarged bases of the dial buttons should protrude an equal amount through bezel and the dial should not push bezel up from lower cover.

For units equipped with rotary dials, the numbered dial face should be flush to outside surface of bezel, within 1/16 inch below---3/32 inch above and parallel to outside surface of bezel, within 1/16 inch.

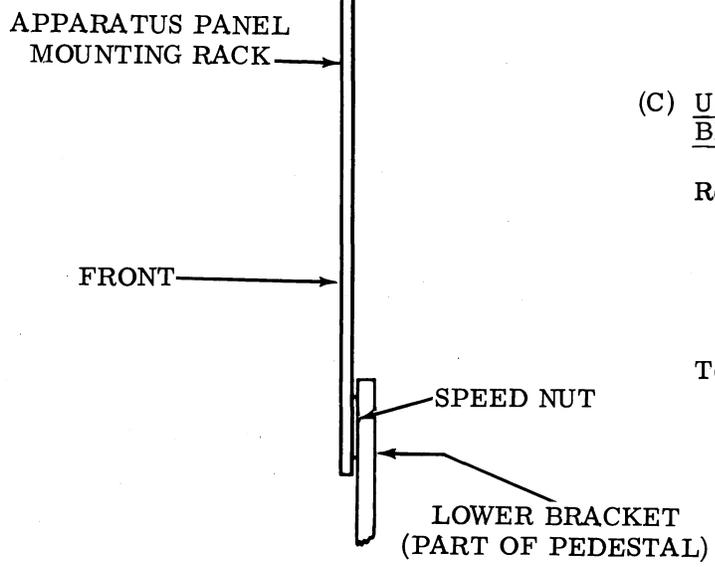
To Adjust
 Loosen five screws that mount front part of call control unit to adjustable bracket on pan and adjust height of front part of call control unit.



(A) CALL CONTROL UNIT MOUNTING BRACKET

Requirement
 Pushbuttons and lights on call control unit should be centered in their respective openings in bezel.

To Adjust
 Loosen two screws that fasten front call control bracket and position the bracket. Tighten screws.



(C) UPPER APPARATUS MOUNTING RACK BRACKET (Floor Standing Cabinets Only)

Requirement
 Speed nut on upper rack bracket should touch back of apparatus mounting racks when bottom of rack is touching two lower brackets with pedestal and racks resting on floor.

To Adjust
 Loosen bracket mounting screws and position the bracket. Tighten screws.

2.11 Transmitter Cover and Control Panel

(A) COVER

(1) Requirement

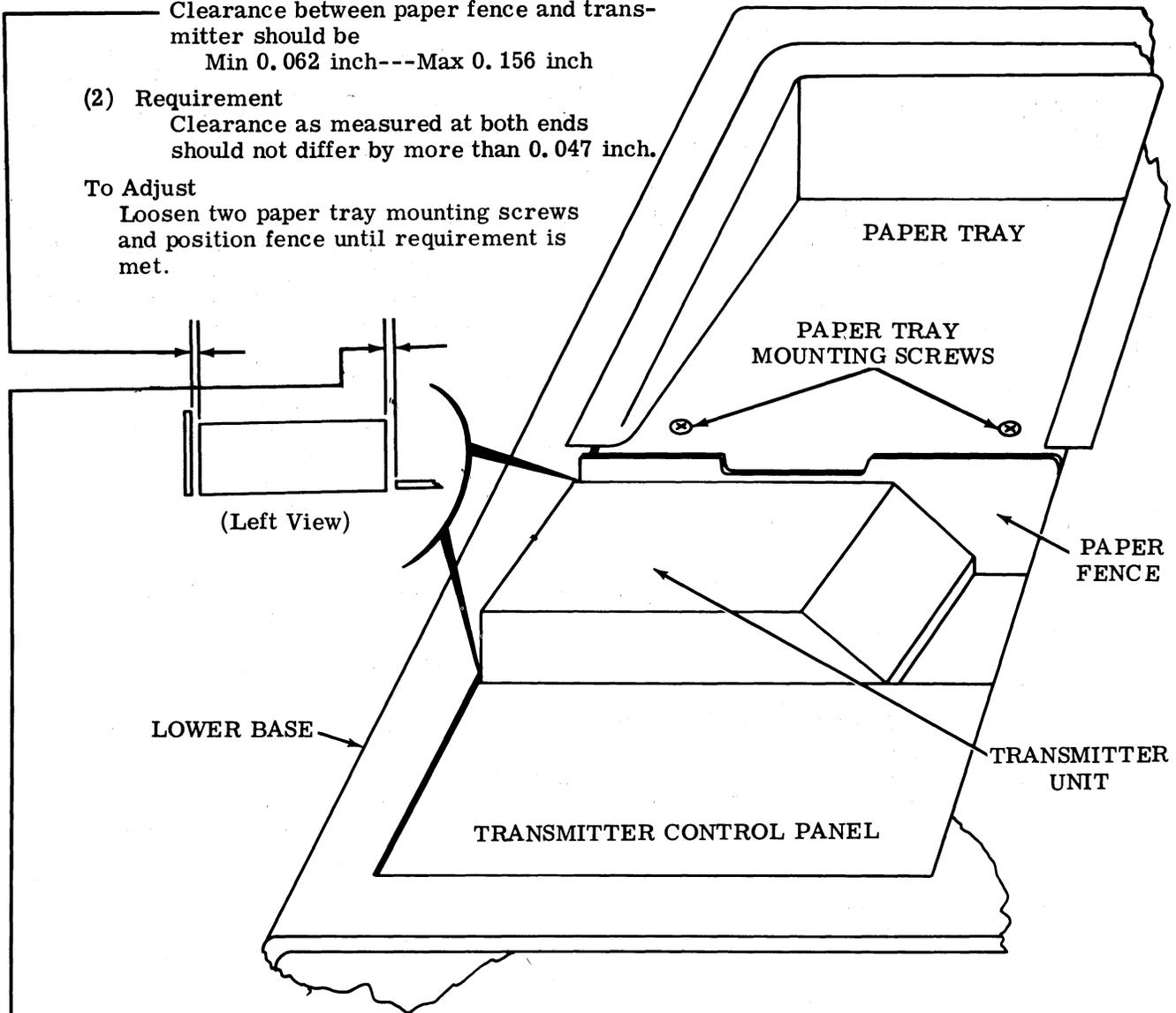
Clearance between paper fence and transmitter should be
Min 0.062 inch---Max 0.156 inch

(2) Requirement

Clearance as measured at both ends should not differ by more than 0.047 inch.

To Adjust

Loosen two paper tray mounting screws and position fence until requirement is met.



(B) TRANSMITTER CONTROL PANEL

(1) Requirement

Clearance between transmitter control panel and transmitter unit should be 0.062 inch.

(2) Requirement

Clearance as measured at both ends should not differ by more than 0.047 inch. The panel should just touch the under surface of the lower cover. The cover should not rest on the panel.

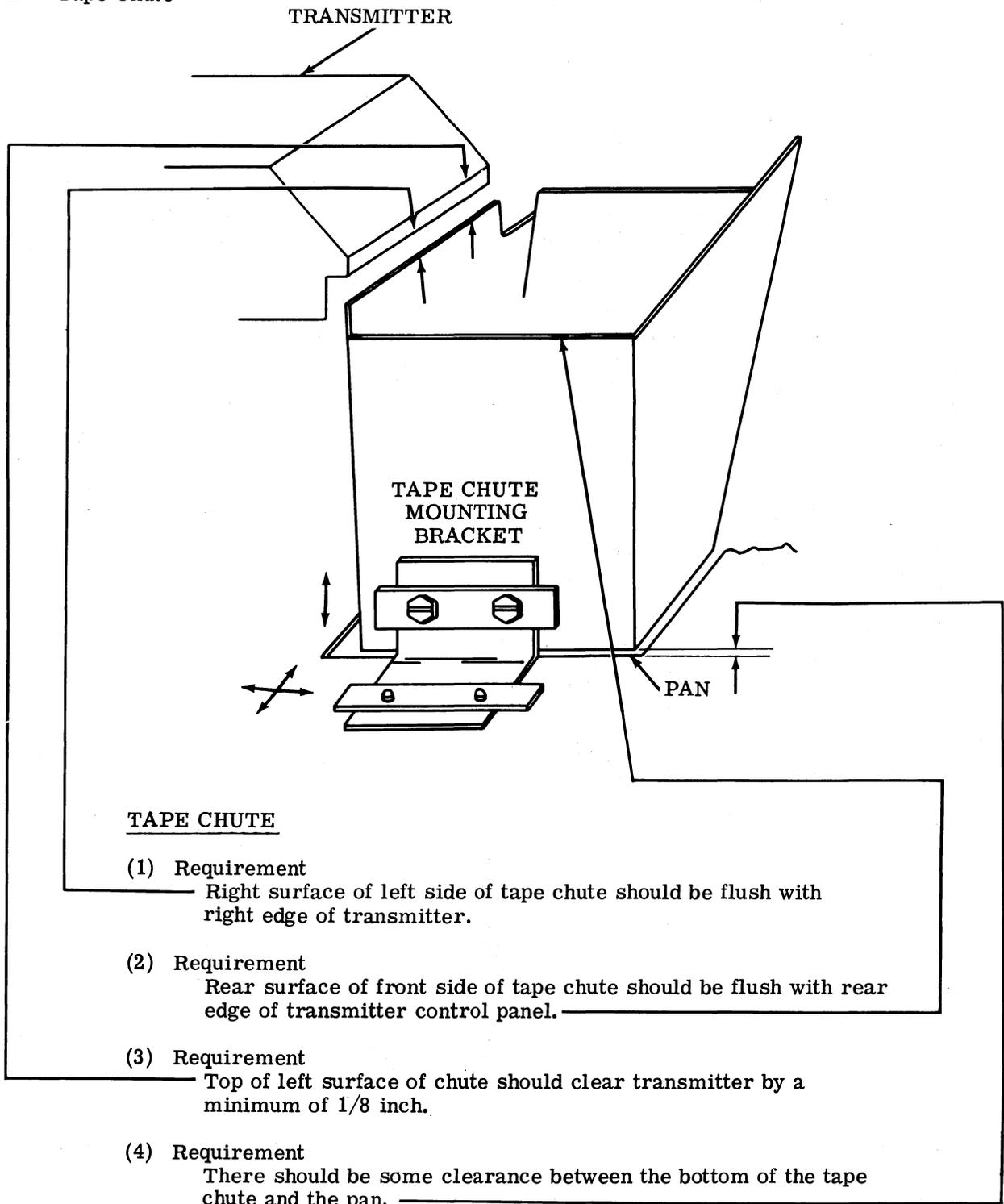
(3) Requirement

Clearance between control panel top and under surface of lower cover should be
Min panel may touch but not moved in excess of 0.015 inch by lower cover---
Max 0.060 inch.

To Adjust

See CONTROL PANEL (Par. 2.08) for instructions.

2.12 Tape Chute

**To Adjust**

Loosen the two screws which fasten the tape chute mounting bracket to the pan and adjust horizontally. Tighten screws. Loosen the two screws which fasten the tape chute to the bracket and adjust vertically. Tighten screws.

2. 13 Tape Tearing Edge

TAPE TEARING EDGE

(1) Requirement

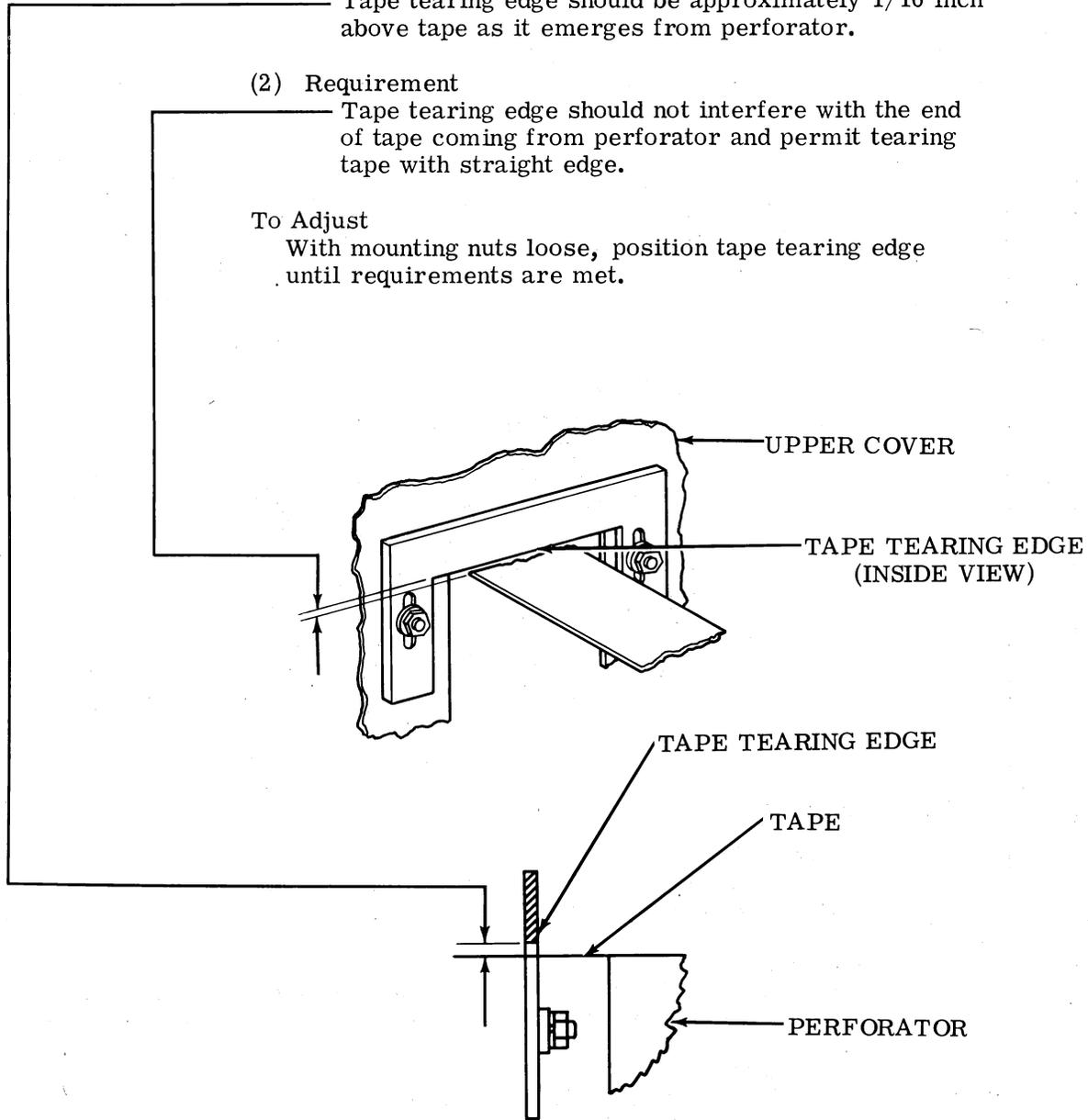
Tape tearing edge should be approximately 1/16 inch above tape as it emerges from perforator.

(2) Requirement

Tape tearing edge should not interfere with the end of tape coming from perforator and permit tearing tape with straight edge.

To Adjust

With mounting nuts loose, position tape tearing edge until requirements are met.



TAPE CONTAINER

Requirement

With a full roll of paper tape installed in the tape container, no part of the roll shall rub against any of the components contained in the electrical service assembly.

To Adjust

Loosen the four mounting screws securing the tape container and position same so there is some clearance between the roll of tape and all components in the electrical service assembly. Tighten screws.

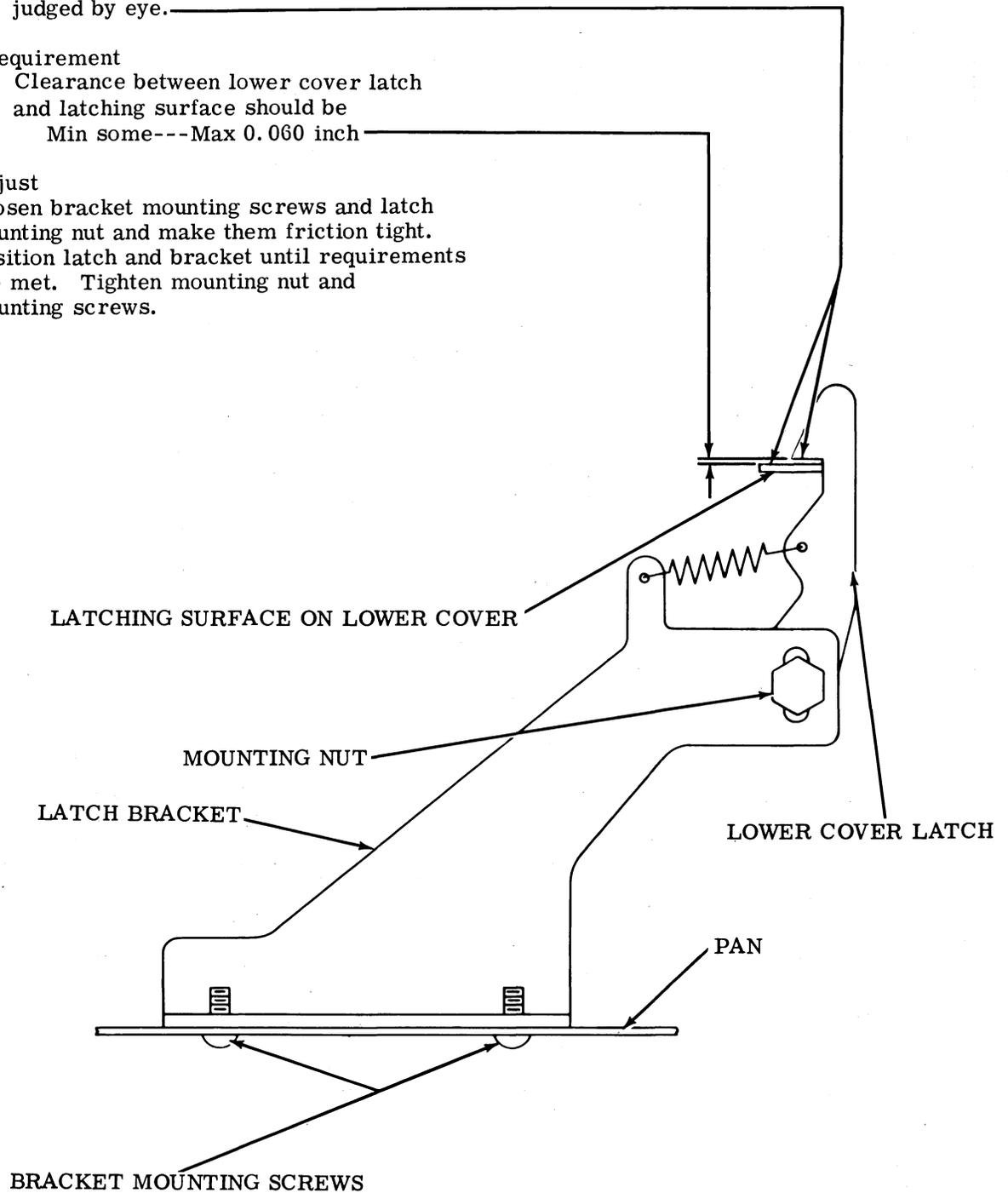
2.14 Lower Cover Latch (Later Design Only)

LOWER COVER LATCH

(1) Requirement
Latching surfaces should be parallel as judged by eye.

(2) Requirement
Clearance between lower cover latch and latching surface should be
Min some---Max 0.060 inch

To Adjust
Loosen bracket mounting screws and latch mounting nut and make them friction tight. Position latch and bracket until requirements are met. Tighten mounting nut and mounting screws.



2.15 Lower Panel Pivot Post

LOWER PANEL PIVOT POST

(1) Requirement

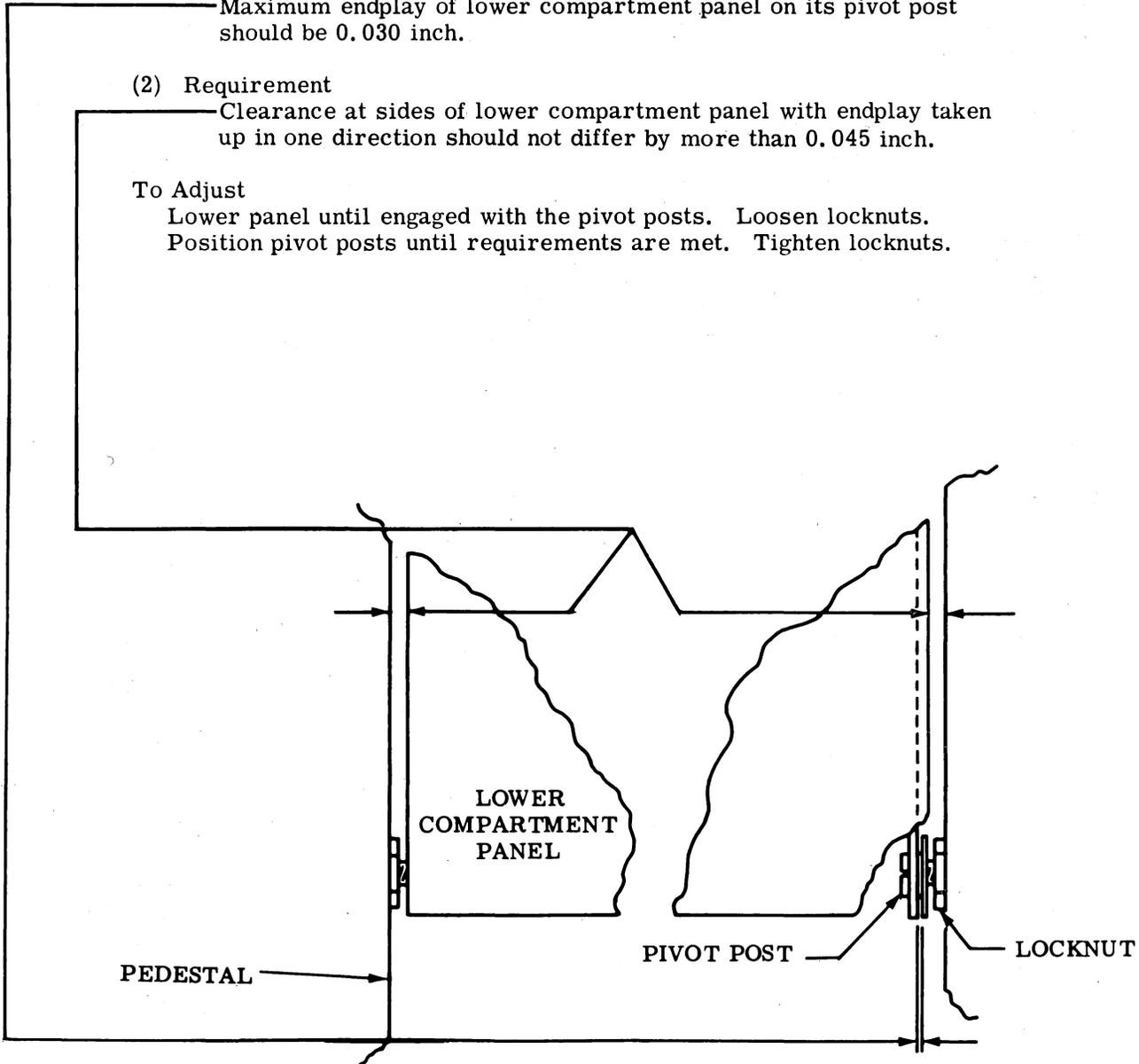
Maximum endplay of lower compartment panel on its pivot post should be 0.030 inch.

(2) Requirement

Clearance at sides of lower compartment panel with endplay taken up in one direction should not differ by more than 0.045 inch.

To Adjust

Lower panel until engaged with the pivot posts. Loosen locknuts. Position pivot posts until requirements are met. Tighten locknuts.



CLEANING CABINETS

A soft dry cloth should be used to remove dust, oil or grease from the cabinet. If necessary, a soft damp cloth and mild soap may be used. Rinse cabinet with damp cloth and buff with a dry cloth.

CAUTION: DO NOT USE ALCOHOL, MINERAL SPIRITS OR OTHER SOLVENTS FOR CLEANING THE CABINET.