

ENCLOSURES AND PAPER HANDLING  
FOR 'DATASPEED'\* PRINTER (RECEIVE-ONLY)  
ADJUSTMENTS AND LUBRICATION

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SECTION 592-820-701

1. GENERAL

1.01 This section provides the adjustments and lubrication procedures for the maintenance of the cover, base, cabinet, paper unwinder, and paper winder as used in the "DATASPEED" printer (receive-only). It is being reissued to incorporate recent engineering changes and technical comments not previously presented. Since Issue 1 was presented in limited quantity, this is the first general distribution of this section.

**CAUTION: REMOVE POWER FROM SET BEFORE CHECKING OR MAKING ADJUSTMENTS UNLESS OTHERWISE STATED.**

1.02 The adjustments are arranged in a sequence that should be followed if a complete readjustment of the particular unit were undertaken. In following such a procedure, parts or assemblies that are removed to facilitate adjustments should not be replaced until all other adjustments, which would be facilitated by removal of these parts are made. If any adjustment is changed, related adjustments should

be checked. Before making any adjustment, read the adjustment instructions thoroughly. After an adjustment is completed, be sure to tighten any nuts or screws which may have been loosened.

1.03 The spring tension values indicated are scale readings which would be obtained when proper scales are used as specified. Springs that do not meet the requirements, and for which no adjusting procedure is given, should be replaced by new ones.

1.04 Check all moving parts to make sure they are free from binds before operating the units under power.

1.05 References to right or left, up or down, front or rear, apply to the units as viewed when facing them from the front or operators side.

1.06 Parts ordering information can be obtained from Section 592-820-801. For the tools necessary in making the adjustments, refer to Section 570-005-800.

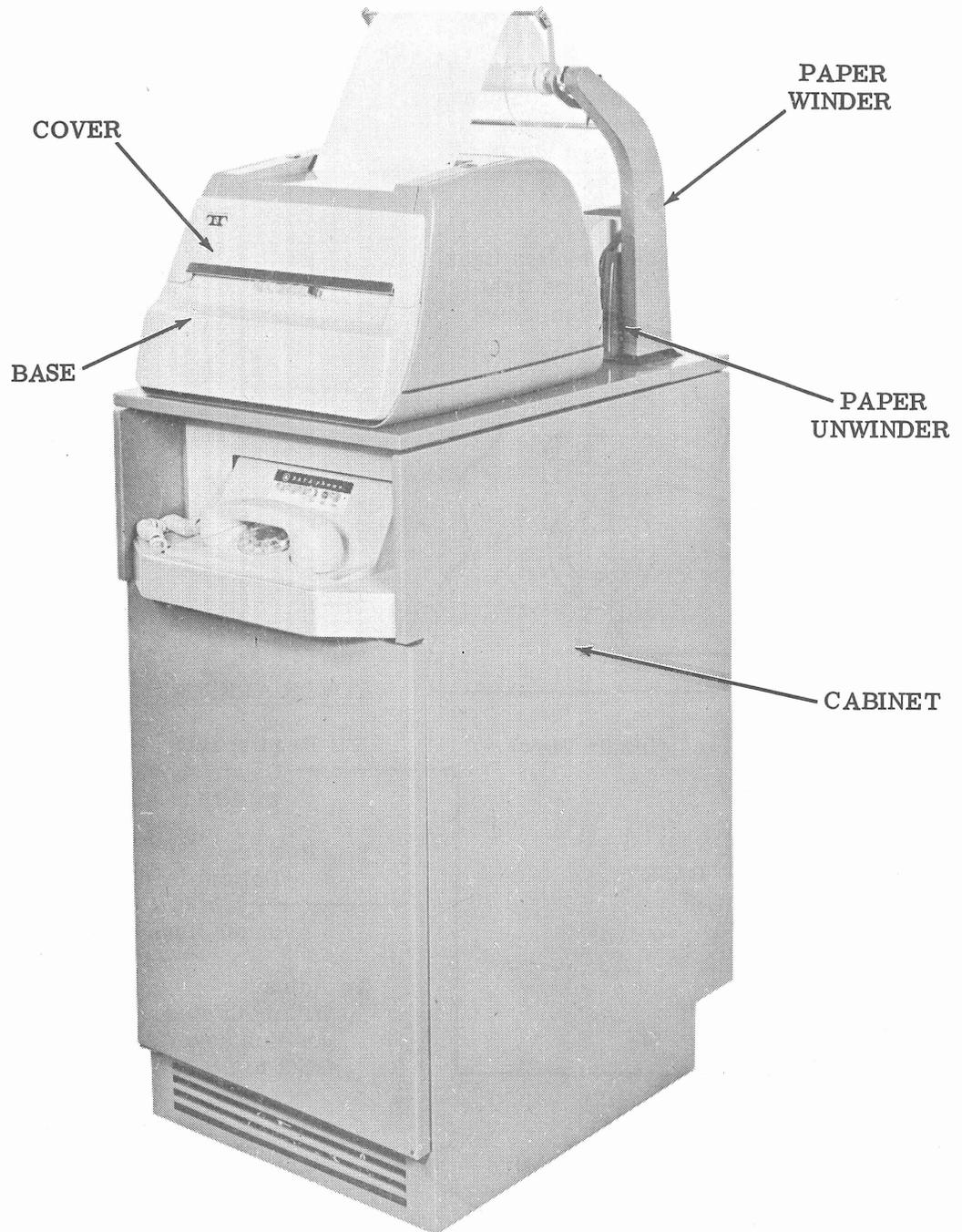


Figure 1 - Typical "DATASPEED" Printer (Receive-Only)

2. ADJUSTMENTS

2.01 Cover

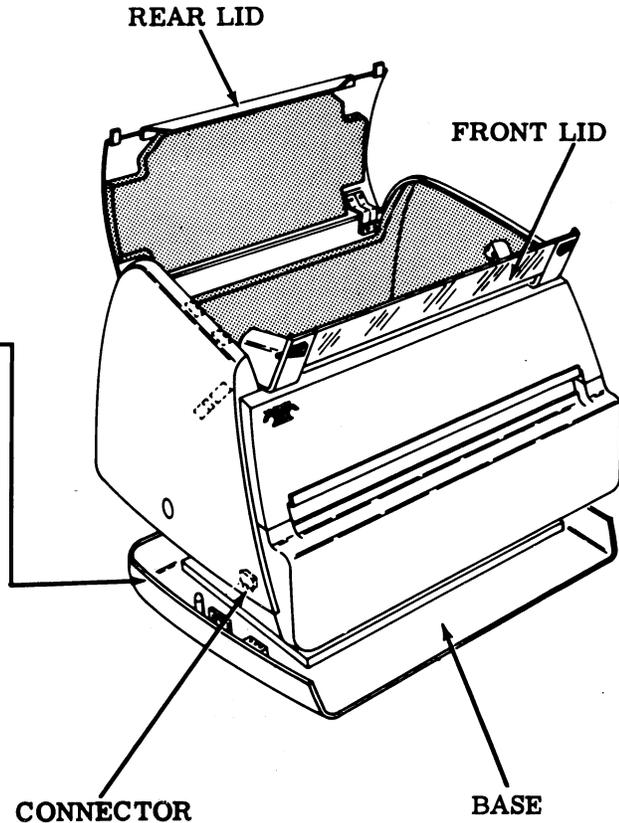
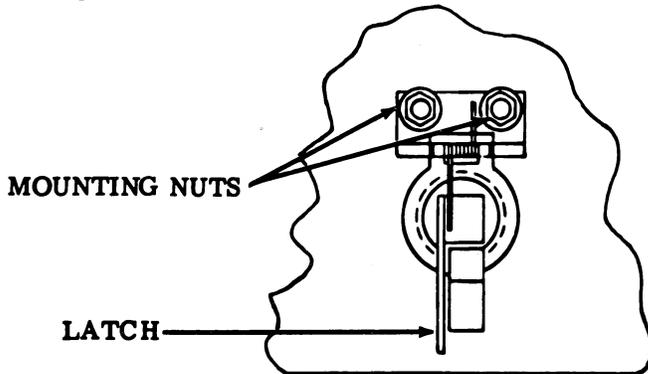
COVER AND BASE GASKET

Requirement

Bottom surface of cover should be in contact with gasket on base. Cover should compress gasket evenly around perimeter of cover so as to prevent air gaps along entire length of gasket.

To Adjust

With cover latch mounting nuts friction tight and connector mounting nuts friction tight (left side), position cover. Tighten mounting nuts.



COVER ALIGNMENT — PRELIMINARY

(1) Requirement

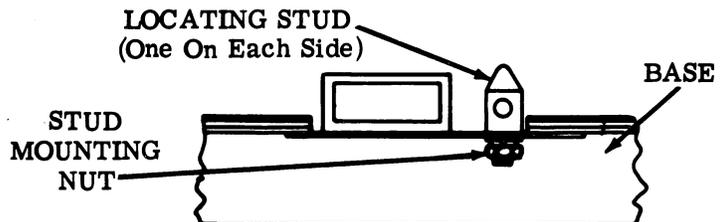
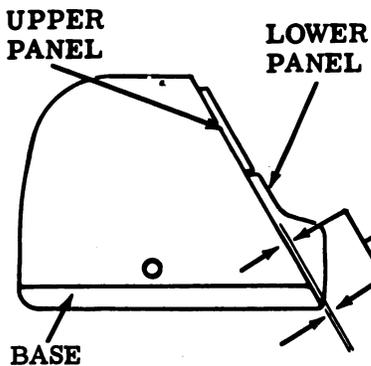
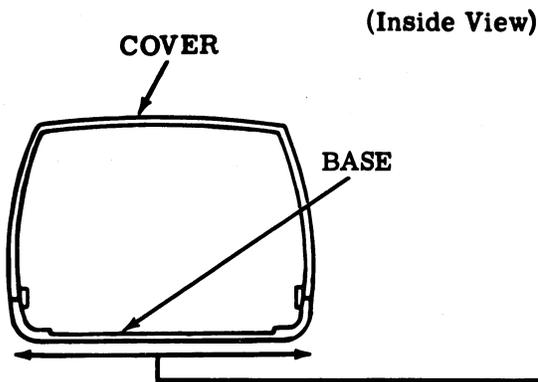
Cover should be centered (left to right) with respect to base, as gauged by eye.

(2) Requirement

Bottom leading edge of cover should be  
 ---Min 0.031 inch---Max 0.078 inch  
 under flush with base.

To Adjust

With both stud mounting nuts friction tight, position cover from left to right and/or front to rear. Tighten stud mounting nuts.



2.02 Cover (continued)

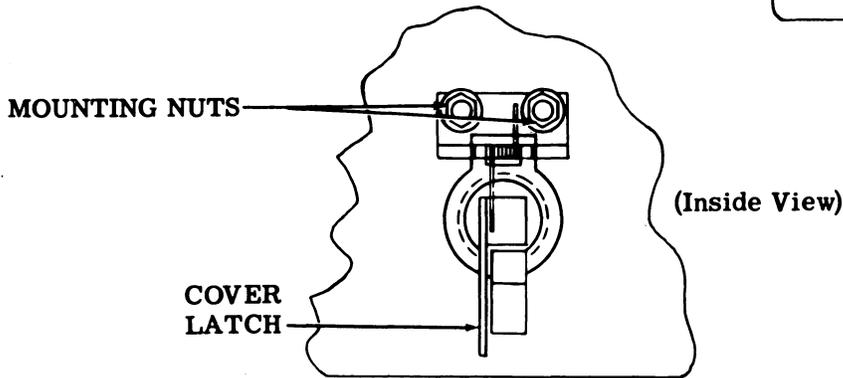
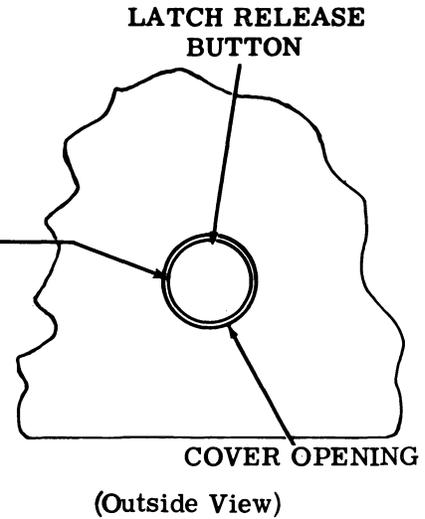
COVER LATCH (RIGHT AND LEFT)

**Requirement**

Latch release button should be centrally located in its cover opening. Check both buttons.

**To Adjust**

Position the latch with its mounting nuts loosened. Tighten mounting nuts.



COVER ALIGNMENT --- FINAL

(1) **Requirement**

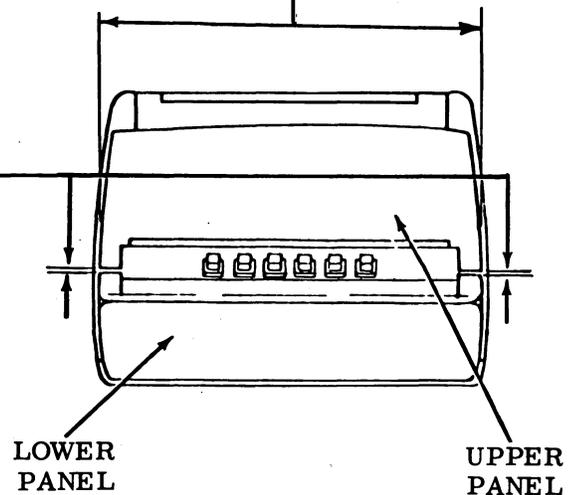
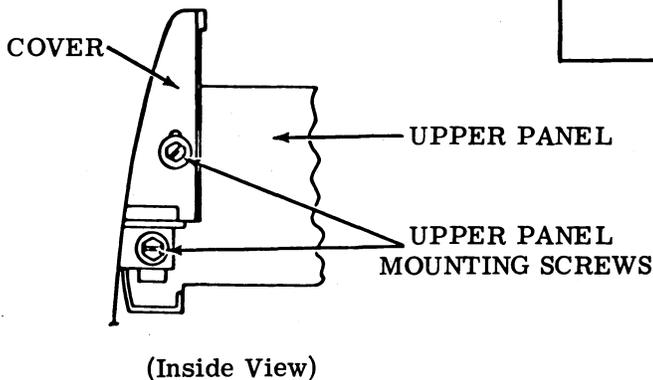
Upper panel (on cover) and lower panel (on base) should align. Gauge by eye.

(2) **Requirement**

Clearance between upper panel and lower panel should be  
 Min 0.062 inch --- Max 0.094 inch  
 Check both sides.

**To Adjust**

With upper panel and lower panel mounting screws friction tight, position panels to meet requirements. Tighten panel mounting screws.



2.03 Cover (continued)

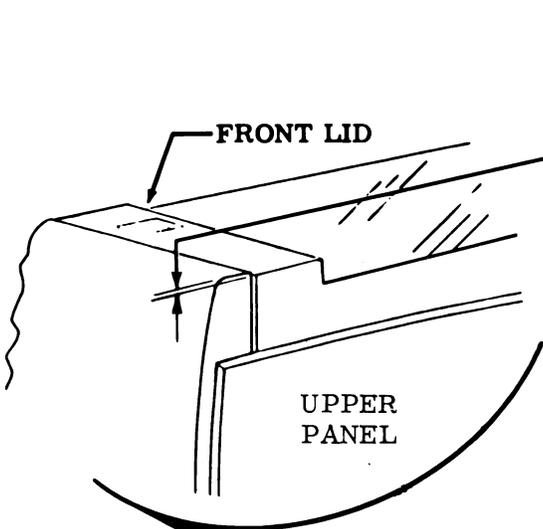
SURFACE ALIGNMENT

**Requirement**

Top surface of front lid (at leading edge) should be within +0.031 inch and -0.031 inch from being flush with cover housing.

**To Adjust**

Position front lid with bracket mounting nuts friction tight. Tighten mounting nuts.



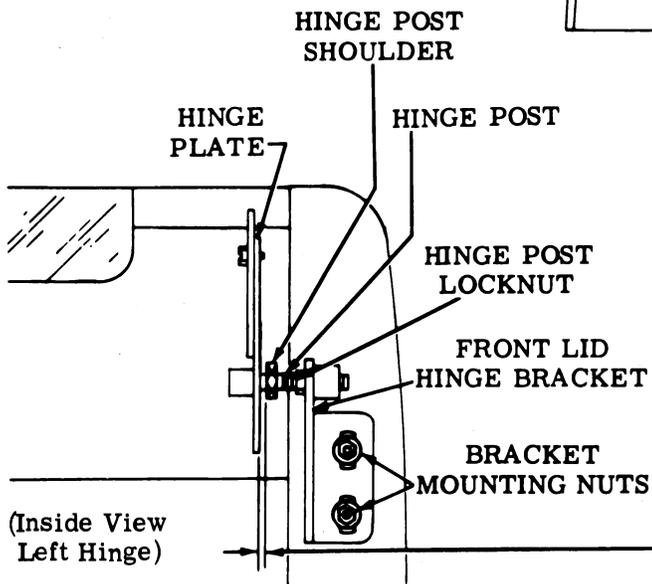
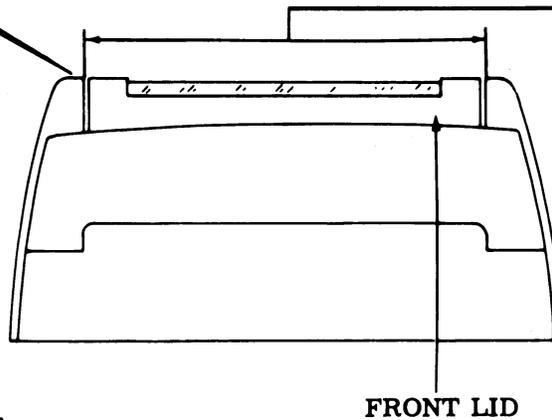
HINGE POST -- PRELIMINARY

**Requirement**

Front lid should be centered (left to right) in opening as gauged by eye.

**To Adjust**

With hinge post locknuts loose, turn hinge posts as required to center front lid. Tighten locknuts.



(Inside View Left Hinge)

HINGE POST --- FINAL

**Requirement**

With front lid held toward either left or right side, endplay between hinge post shoulder and hinge plate should be Min some --- Max 0.010 inch

**To Adjust**

With lid held toward opposite side, loosen hinge post locknut, and turn hinge post to obtain required endplay. Tighten locknut.

2.04 Cover (continued)

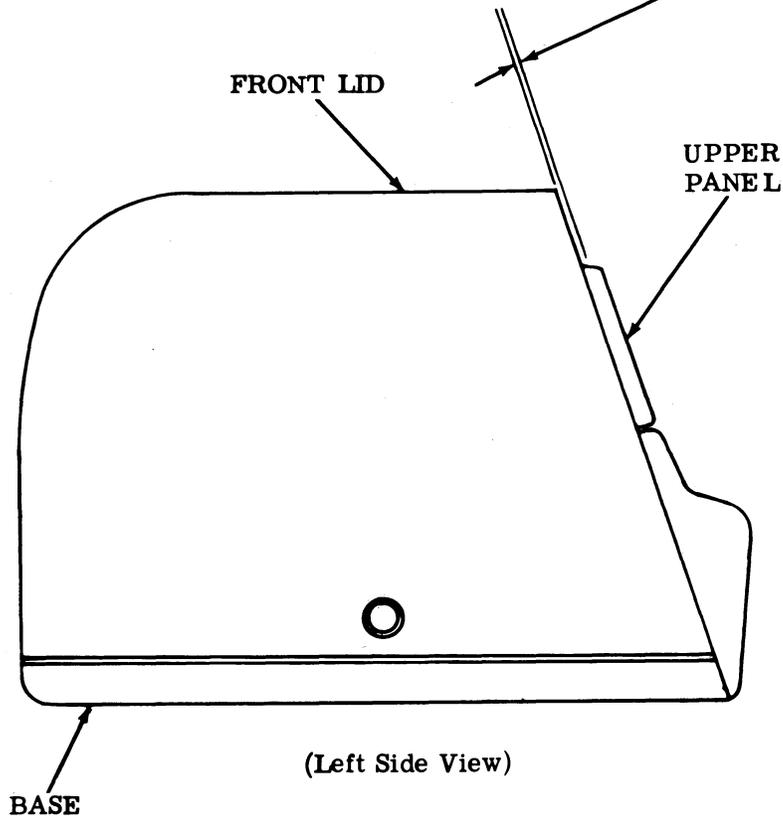
FRONT LID -- UPPER PANEL CLEARANCE

**Requirement**

With front lid closed and latched, there should be minimum clearance between front surface of front lid and rear surface of upper panel.

**To Adjust**

With front lid hinge plate mounting screws loosened, position front lid. Tighten mounting screws.



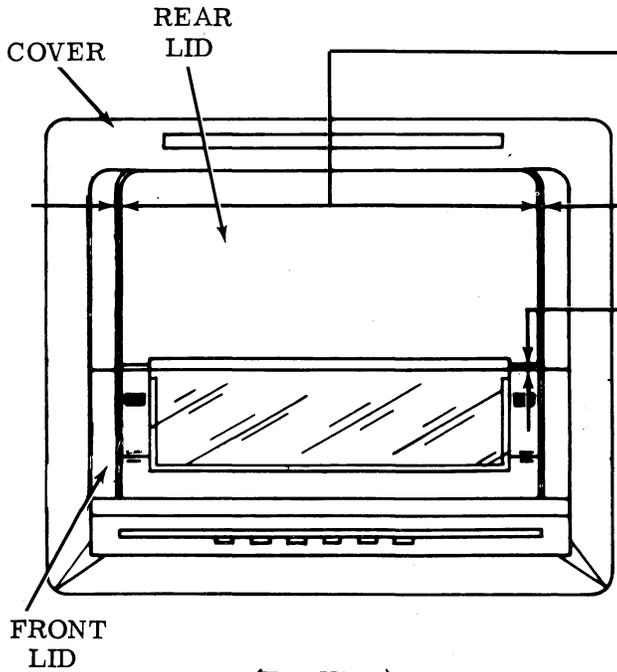
2.05 Cover (continued)

REAR LID ALIGNMENT

- (1) Requirement  
 With front and rear lids closed and latched, clearance between front and rear lids should be  
 Min some---Max 0.047 inch

- (2) Requirement  
 Rear lid should be centered (left to right) in opening as gauged by eye.

To Adjust  
 With four mounting nuts securing rear lid hinge to cover loosened, position rear lid front to rear and/or left to right. Tighten mounting nuts.



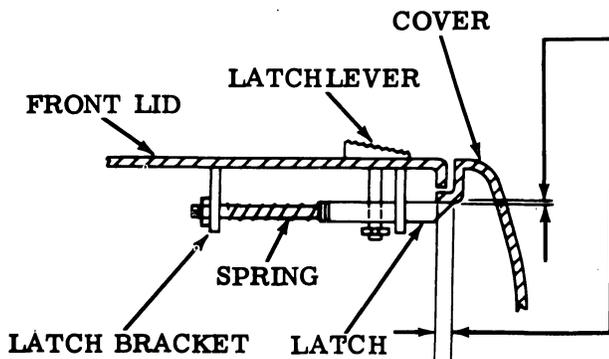
(Top View)

FRONT LID LATCHES

- (1) Requirement  
 With front lid latched and held down against rear lid extension, clearance between front lid latch and cover latching surface should be  
 Min some---Max 0.015 inch

- (2) Requirement  
 With front lid closed, latch should engage cover latching surface by  
 Min 0.047 inch---Max 0.094 inch

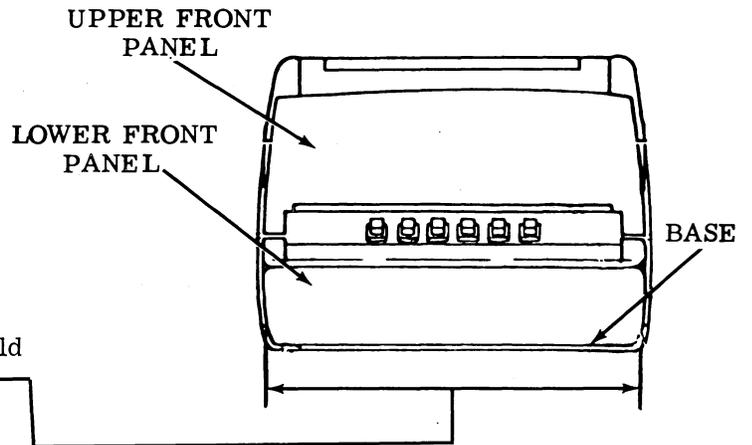
To Adjust  
 Form latch bracket up or down, toward or away from cover, until requirements are met. Check both right and left latches.



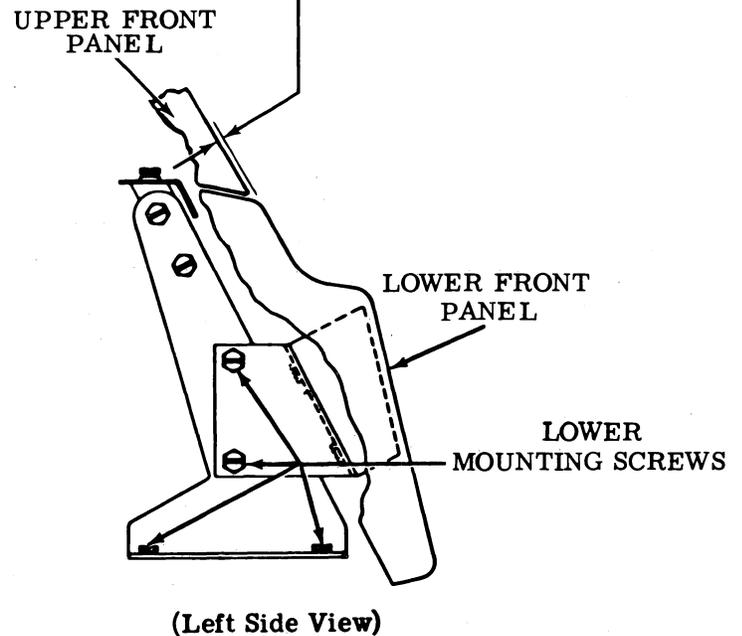
2.06 Base

LOWER FRONT PANEL

- (1) Requirement  
Lower front panel should be centered (left to right) with respect to base. Gauge by eye.
- (2) Requirement  
Bottom edge of lower front panel should be flush with base gasket.
- (3) Requirement  
Clearance between bottom leading edge of upper front panel and top leading edge of lower front panel should be Min some---Max 0.025 inch



To Adjust  
With lower front panel mounting screws loosened, position panel to meet requirements. Tighten mounting screws.



2.07 Base (continued)

FUNCTION STRIP

(1) Requirement

Clearance between pushbutton cover bracket and top forward edge of lower front panel should be

Min some---Max 0.094 inch under flush, as gauged by eye.

(2) Requirement

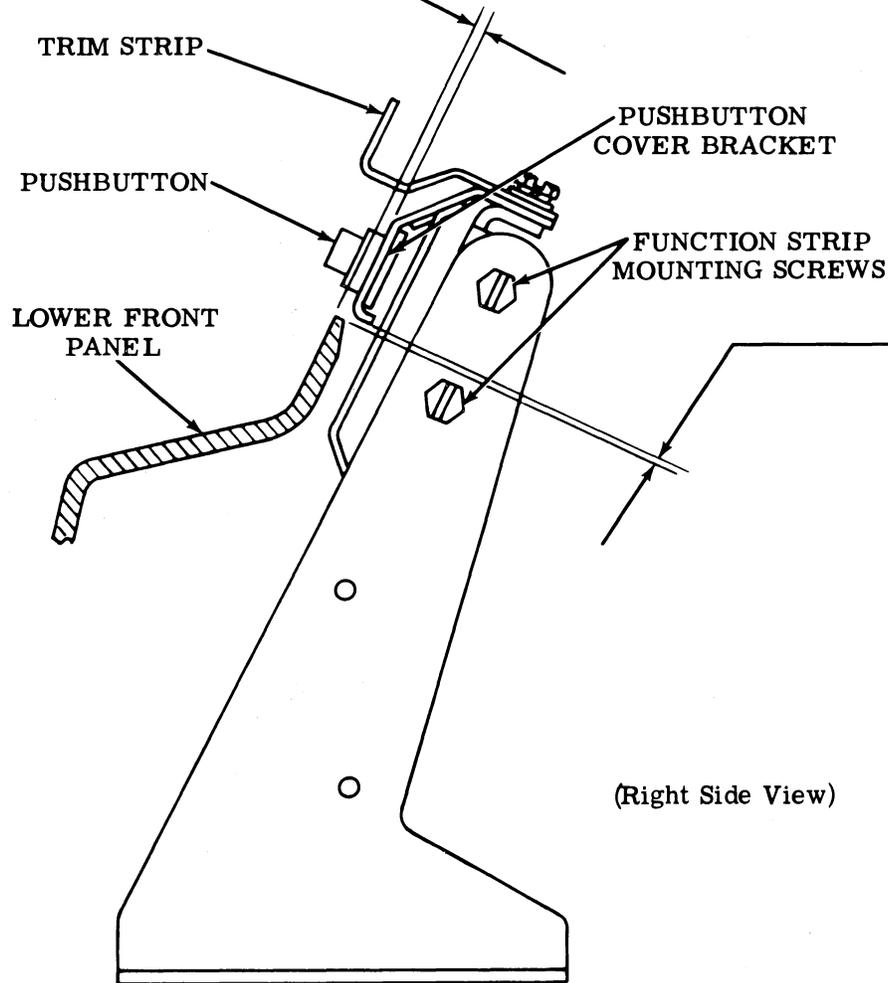
Clearance between pushbutton cover bracket and lower front panel should be minimum, as gauged by eye.

(3) Requirement

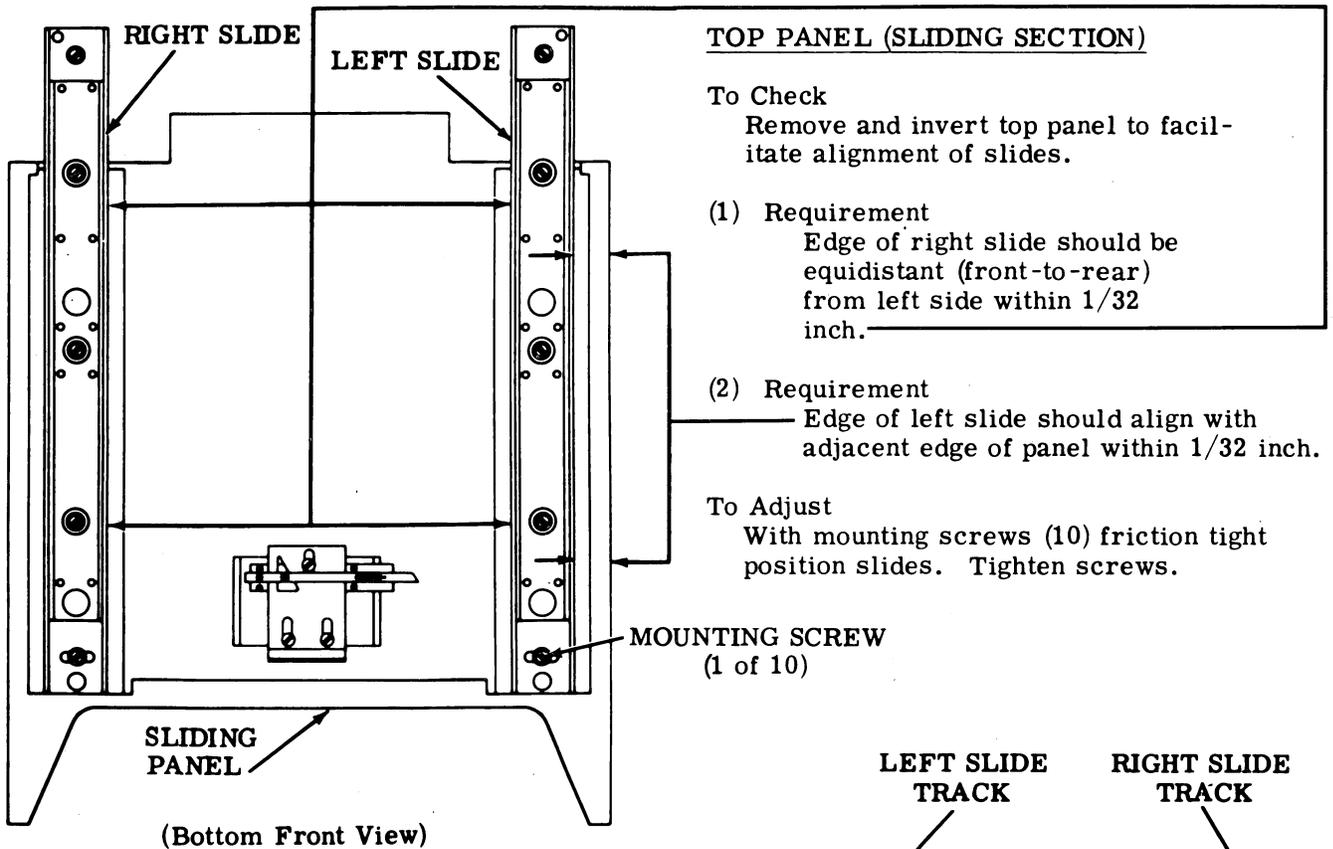
Function strip pushbuttons should have bind-free operation.

To Adjust

With function strip assembly mounting screws loosened, position function strip assembly to meet requirements. Tighten mounting screws and check pushbutton operation. Refine adjustment if necessary.



2.08 Cabinet

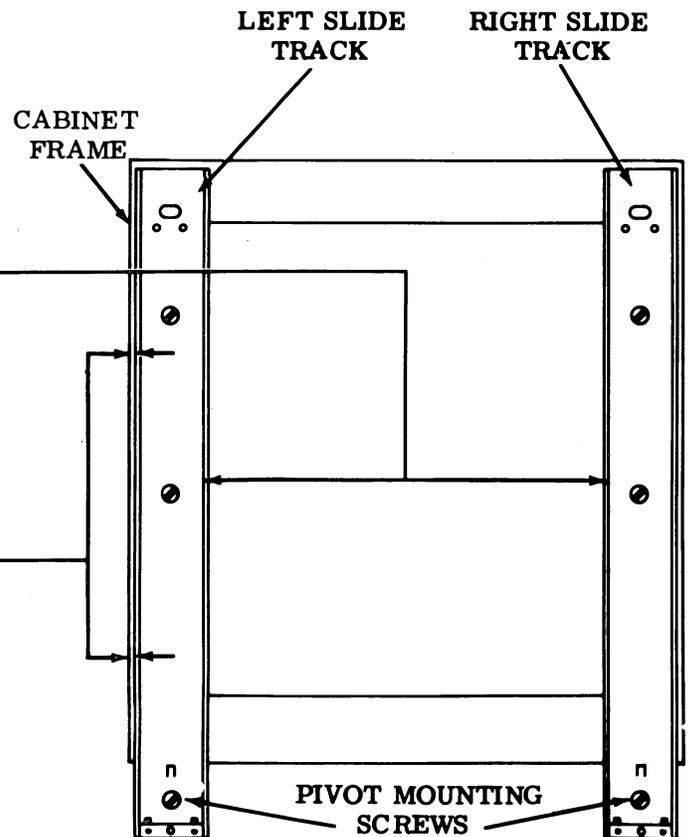


TOP PANEL SLIDE TRACKS

To Check  
Remove top panel. Note that front mounting screw of each track fixes the forward position of the track. Rear end pivots about this screw for adjustment.

- (1) Requirement  
Right track should align with left track within 1/32 inch.
- (2) Requirement  
Edge of left track should be parallel to left edge of cabinet frame within 0.062 inch.

To Adjust  
With rear mounting screws loosened, pivot rear end of left track to meet requirement (1). Tighten screws and position right track in same manner.



**(Top Front View)**

2.09 Cabinet (continued)

TOP PANEL LOCATION

To Check

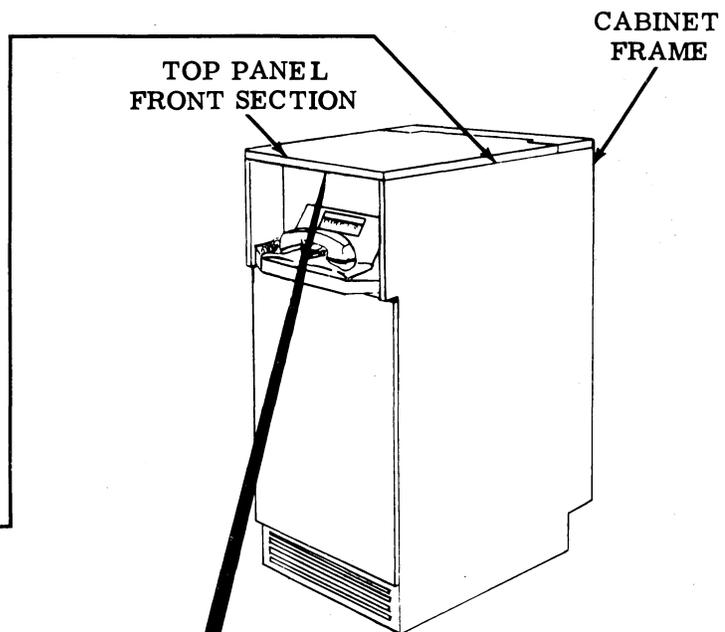
Engage each slide with its ball bearing assembly on respective track. Push top panel toward rear of cabinet frame until front end of track butts against flange of panel; secure slides with screws. Move panel inward and outward slowly to check for binds.

Requirement

Top panel should be centrally located on cabinet frame from left to right and front to rear. Bottom edge of panel normally clears frame by approximately 1/8 inch. Slides should move freely in their tracks.

To Adjust

With only screws that secure right track loosened, refine requirement (2) of TOP PANEL SLIDE TRACKS (2.08) by gently closing panel as right track is shifted toward right or left.



TOP PANEL LATCH

To Check

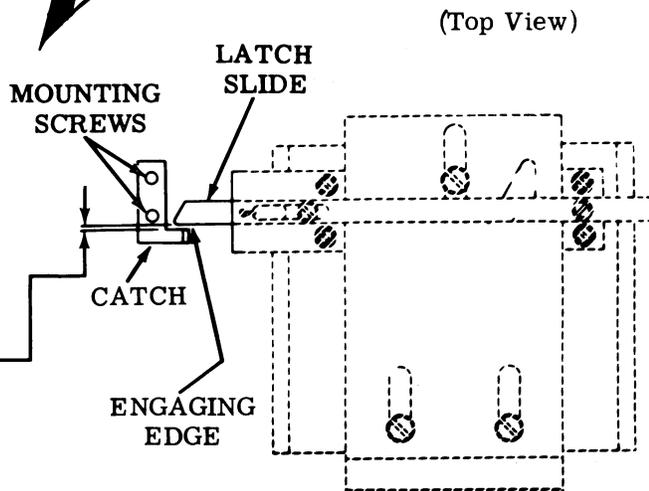
Top sliding panel should be in its normally closed position.

Requirement

Clearance between latch slide and engaging surface should be  
Min flush---Max 0.015 inch

To Adjust

With catch mounting screws loosened, position catch. Tighten screws.



2.10 Cabinet (continued)

TOP PANEL (REAR SECTION)

(1) Requirement (panel alignment)

Lower edge of rear top panel (left and right side) should lie on a plane that is parallel to upper edge of front top panel and above it by approximately 0.062 inch.

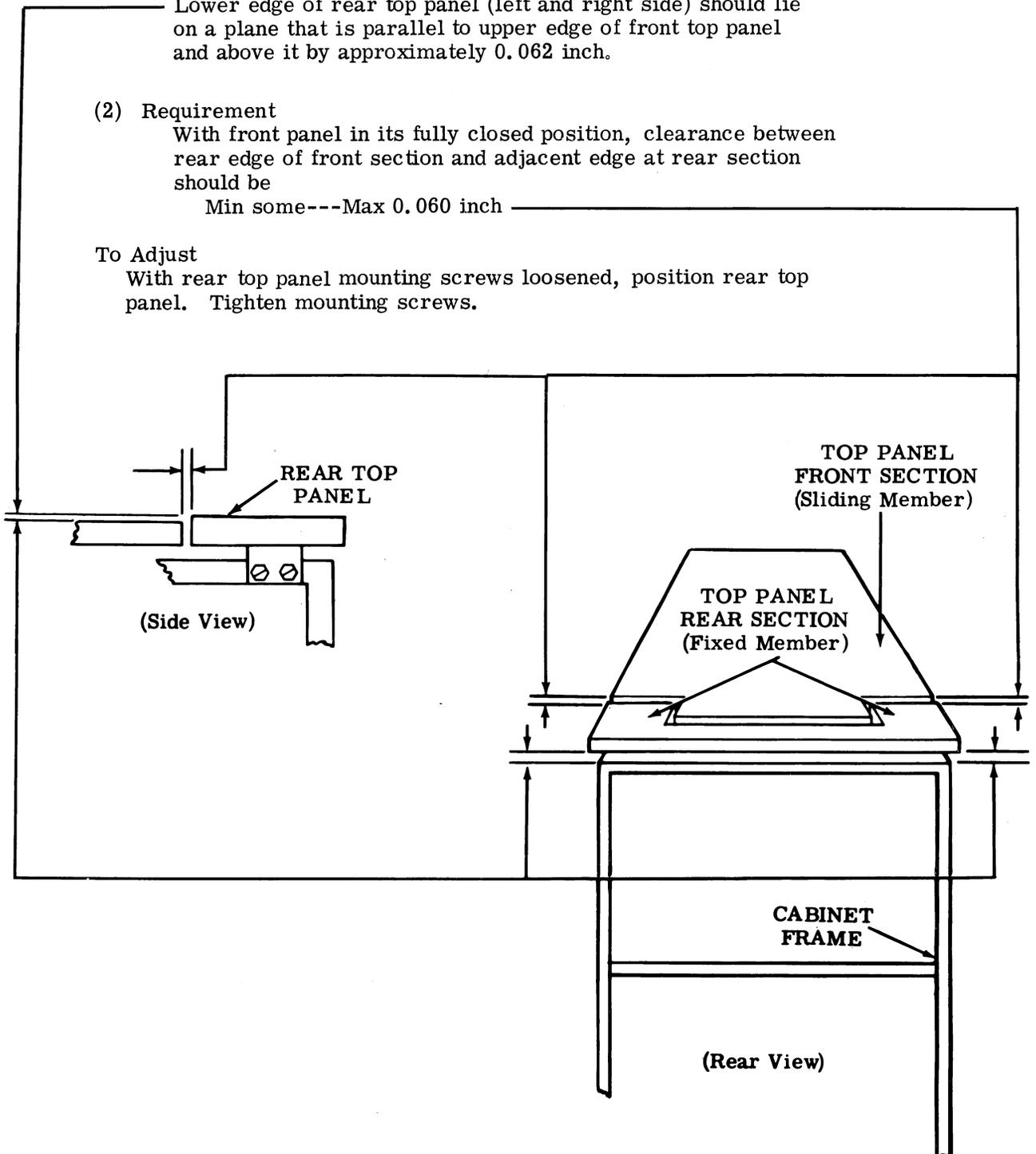
(2) Requirement

With front panel in its fully closed position, clearance between rear edge of front section and adjacent edge at rear section should be

Min some---Max 0.060 inch

To Adjust

With rear top panel mounting screws loosened, position rear top panel. Tighten mounting screws.



2.11 Cabinet (continued)

HIGH VOLTAGE INTERLOCK — OVERRIDE SWITCH

To Check

Front door should be removed.

Requirement

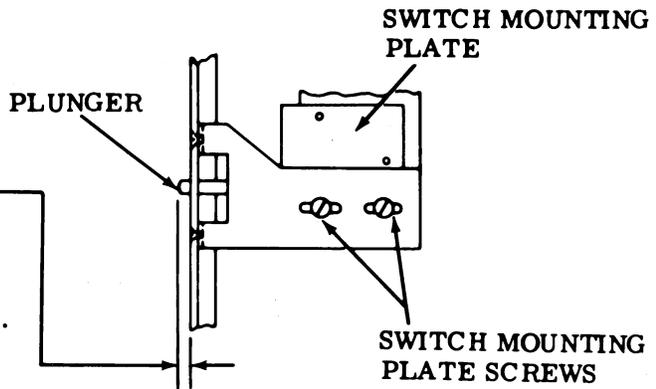
Switch plunger should extend past mounting cabinet frame member by

Min 0.035 inch --- Max 0.078 inch

To Adjust

With switch mounting plate screws loosened, position switch mounting plate. Tighten screws.

Note: Front door normally hinged at left.



(Right Side View)

2.12 Paper Unwinder

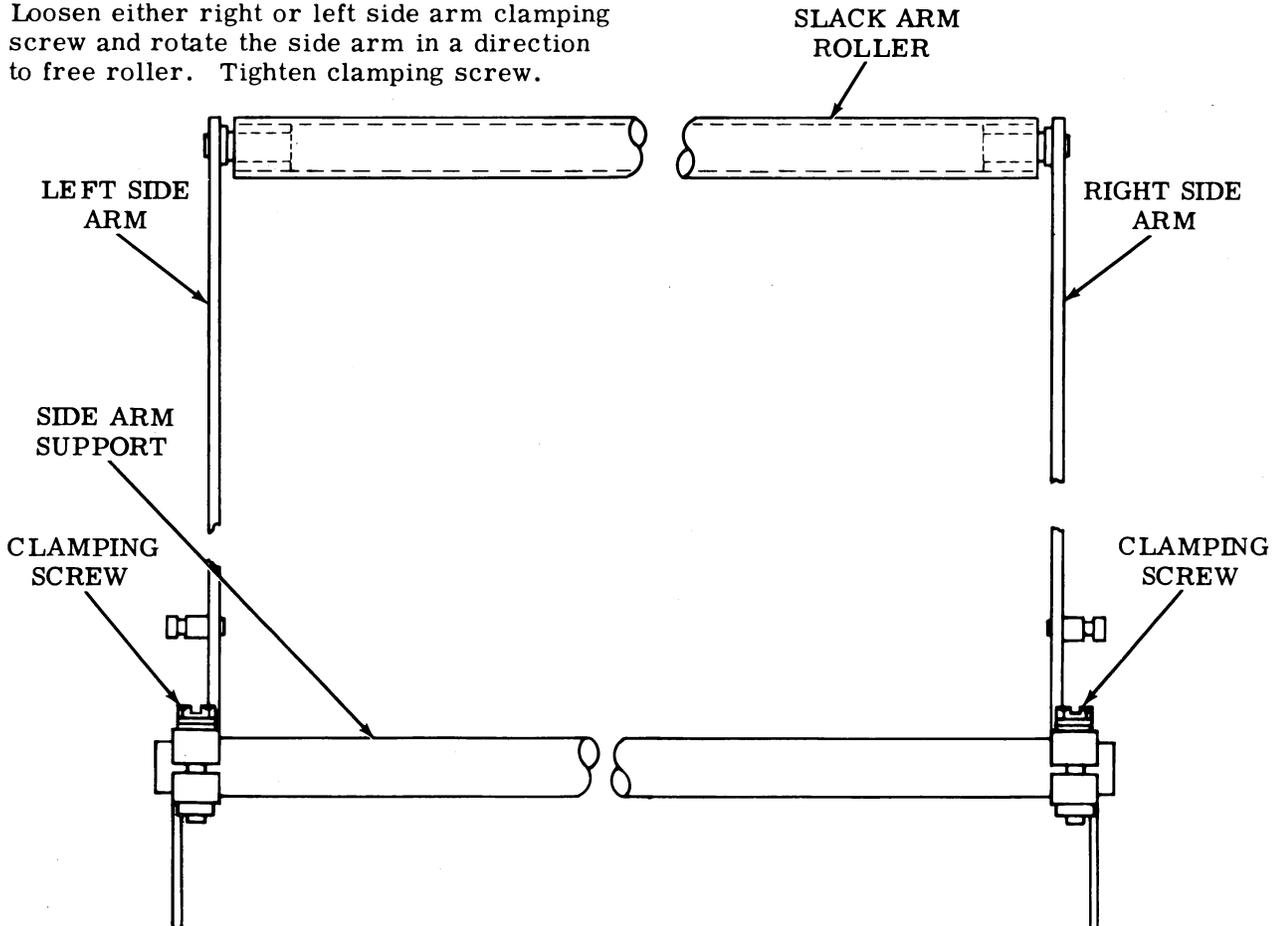
SLACK ARM ROLLER

Requirement

Slack arm roller should be free to rotate.

To Adjust

Loosen either right or left side arm clamping screw and rotate the side arm in a direction to free roller. Tighten clamping screw.



2.13 Paper Unwinder (continued)

SLACK ARM STOPS — PRELIMINARY

**To Check**  
Paper spindle should be empty and slack arm should be in rest position.

**Requirement**  
Clearance between slack arm and paper spindle supports (right and left) should be approximately 3/8 inch.

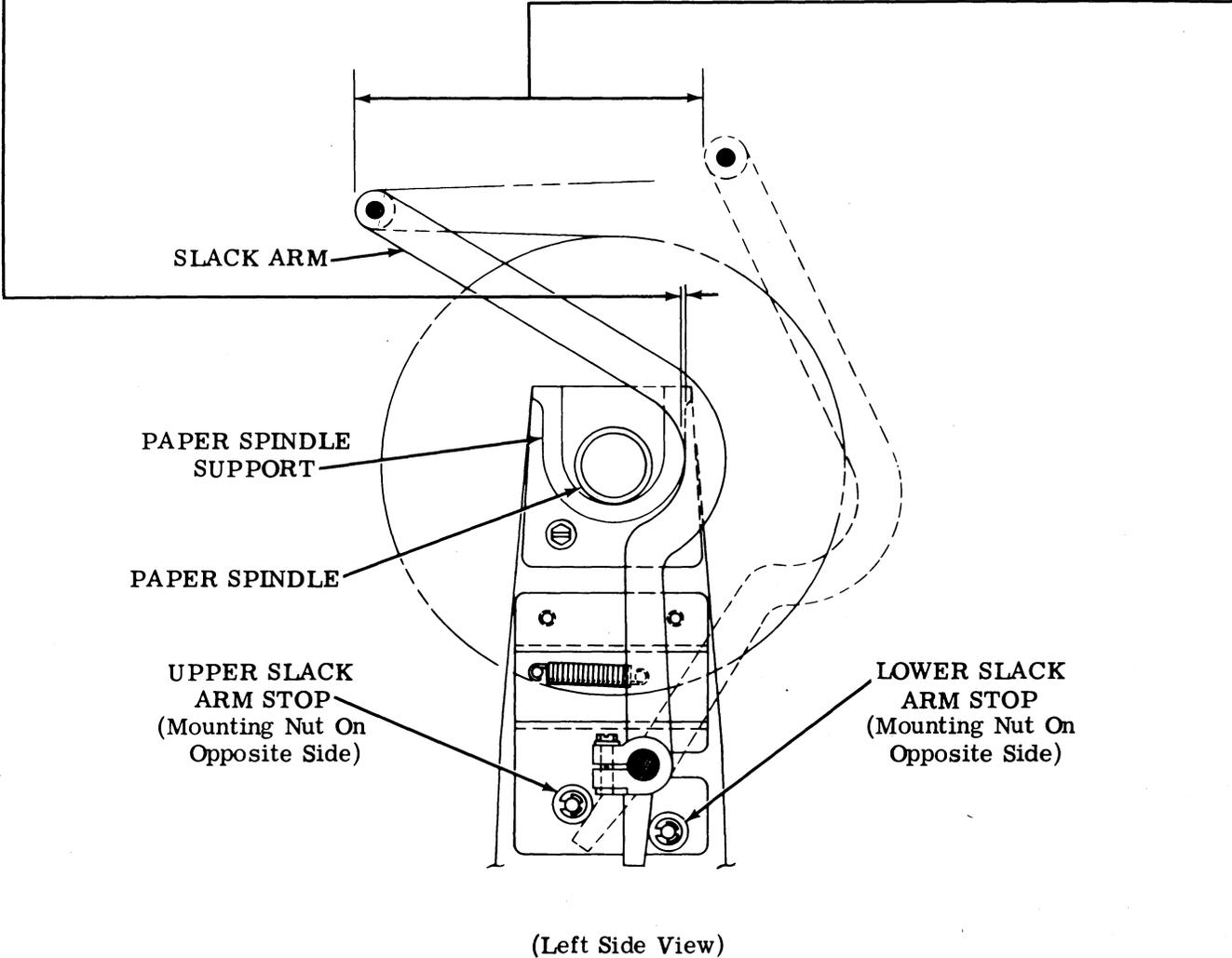
**To Adjust**  
With lower slack arm stop mounting nut loosened, position lower slack arm stop (adjust right and left stops). Tighten mounting nut.

SLACK ARM STOPS — FINAL

**To Check**  
Paper spindle should be empty and slack arm should be in rest position.

**Requirement**  
With slack arm depressed, deflection from rest position should be no more than 3 inches.

**To Adjust**  
With upper slack arm stop mounting nut loosened, position upper slack arm stop (adjust right and left stops). Tighten mounting nut.



2.14 Paper Unwinder (continued)

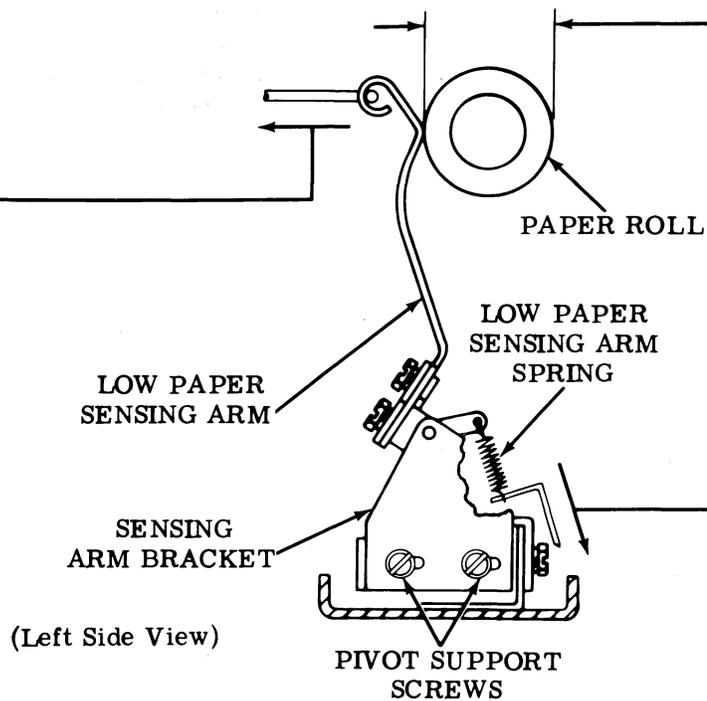
LOW PAPER SENSING ARM

Requirement

With paper roll biased toward cover, low paper alarm switch should close when diameter of paper roll is 1-1/2 inches.

To Adjust

Loosen two screws which support pivot for low paper sensing arm. With continuity tester or voltmeter attached to switch contacts, position pivot support bracket toward right or left until requirement is met. Tighten screws.



LOW PAPER SENSING ARM SPRING

To Check

Paper roll should be approximately 1-1/2 inches in diameter.

Requirement

Amount of force to pull low paper sensing arm spring to installed length should be

Min 10 oz---Max 12 oz

This should result in a force of

Min 1/2 oz---Max 3/4 oz

against paper roll.

To Adjust

If requirement can not be met, replace low paper sensing arm spring.

2.15 Paper Unwinder (continued)

SLACK ARM RETURN SPRING

To Check

Paper slack arm should be in normal rest position with no deflection.

Requirement

Amount of force to pull slack arm return spring to installed length should be

Min 20 oz---Max 28 oz

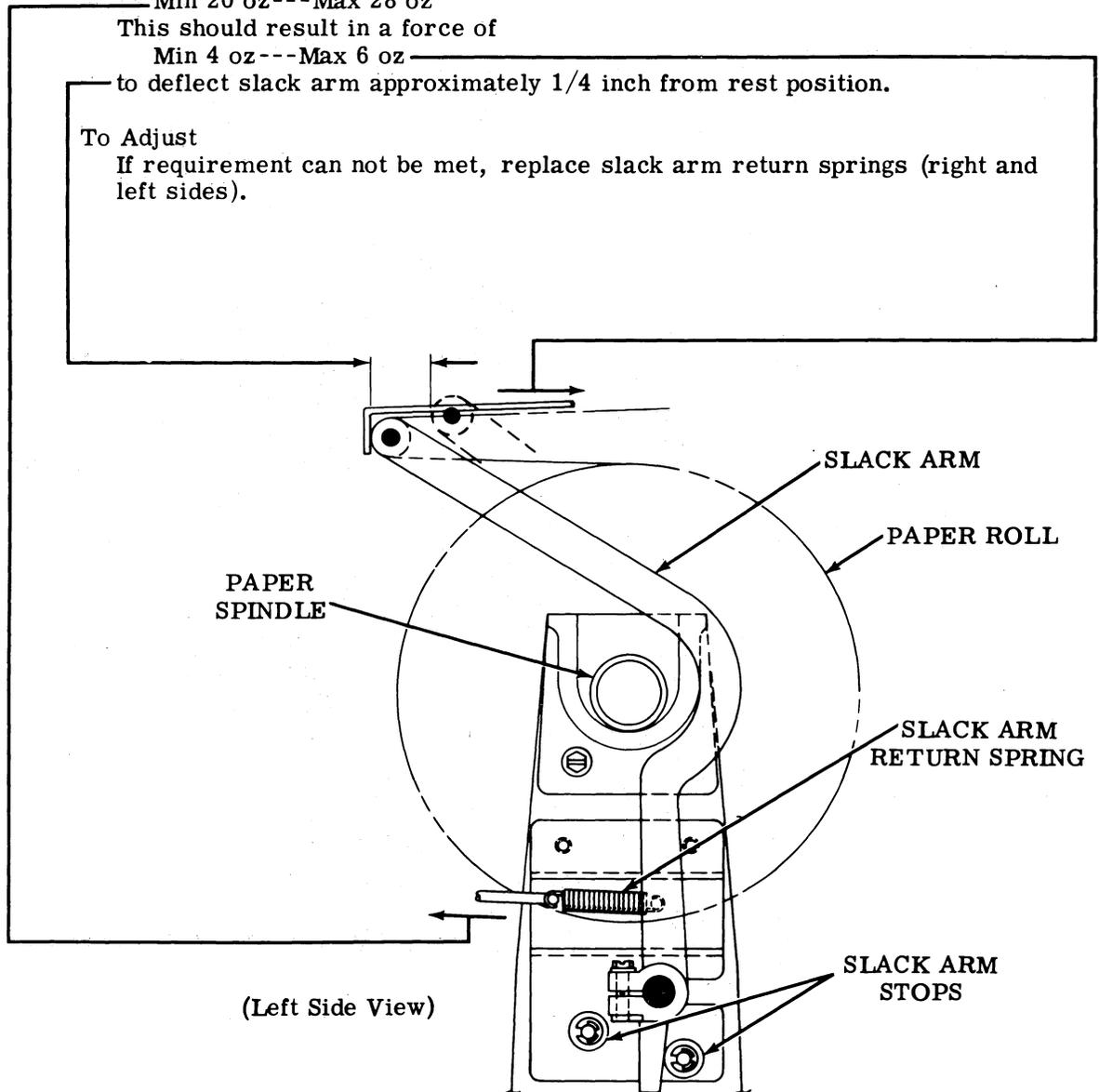
This should result in a force of

Min 4 oz---Max 6 oz

to deflect slack arm approximately 1/4 inch from rest position.

To Adjust

If requirement can not be met, replace slack arm return springs (right and left sides).



2.16 Paper Unwinder (continued)

PAPER ALIGNMENT

To Check

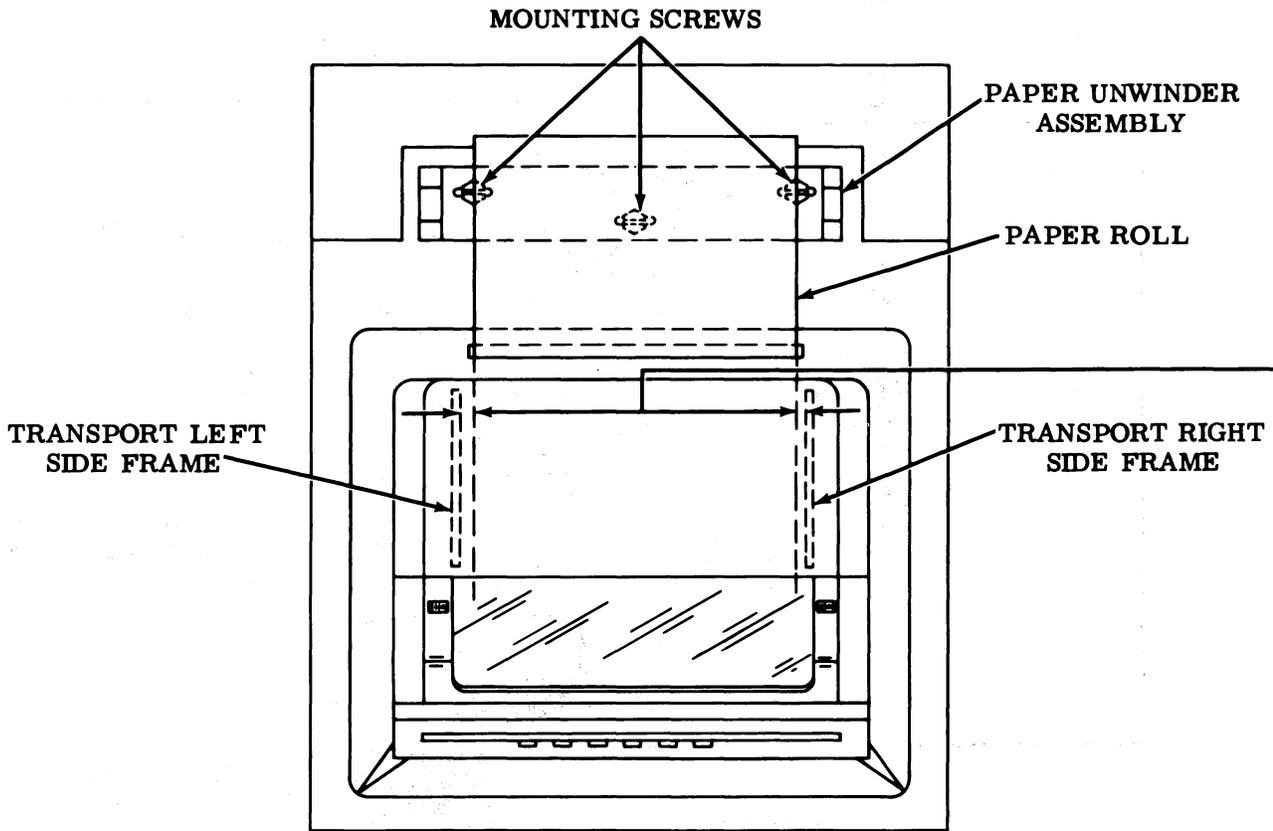
Feed paper through unit without necessarily printing.

Requirement

Paper should be centered with no more than 1/8 inch difference between side frames of transport mechanism and edge of paper on each side.

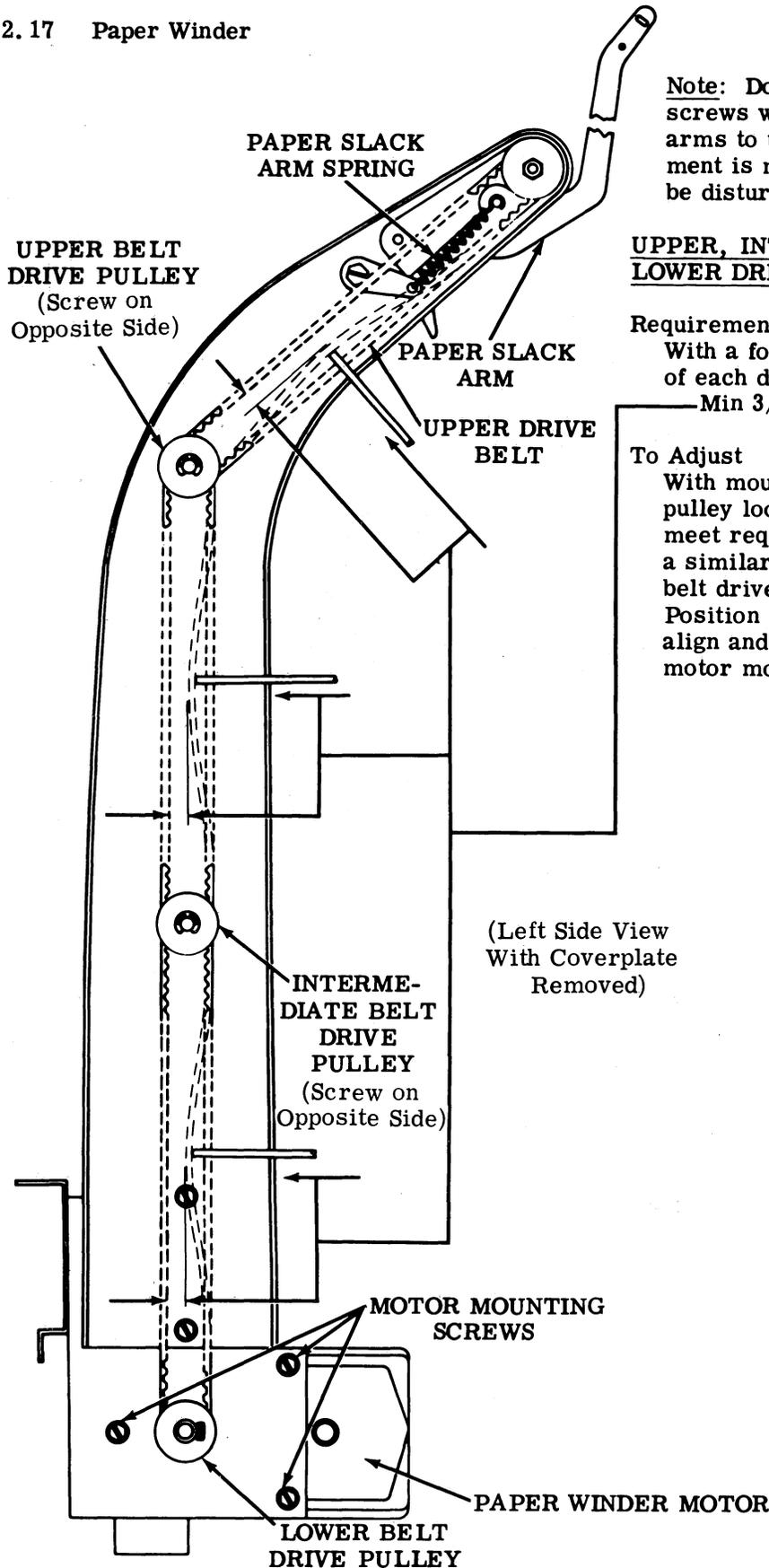
To Adjust

With paper unwinder mounting screws loosened, position paper unwinder assembly either right or left. Tighten mounting screws.



(Top View)

2.17 Paper Winder



**Note:** Do not attempt to loosen or adjust screws which secure the paper winder arms to the mounting bracket. This adjustment is made at the factory and should not be disturbed.

UPPER, INTERMEDIATE, AND LOWER DRIVE BELTS

**Requirement**

With a force of 8 ounces applied to center of each drive belt, deflection should be  
 ---Min 3/32 inch---Max 7/32 inch

**To Adjust**

With mounting screw of upper drive belt pulley loosened, position drive pulley to meet requirement. Tighten screw. In a similar manner, position intermediate belt drive pulley and tighten its screw. Position motor and its drive pulley to align and tension lower belt. Tighten motor mounting screws.

(Left Side View  
 With Coverplate  
 Removed)

2.18 Paper Winder (continued)

WINDER MOTOR ACTUATING SWITCH

To Check

Paper slack arm should be in raised position.

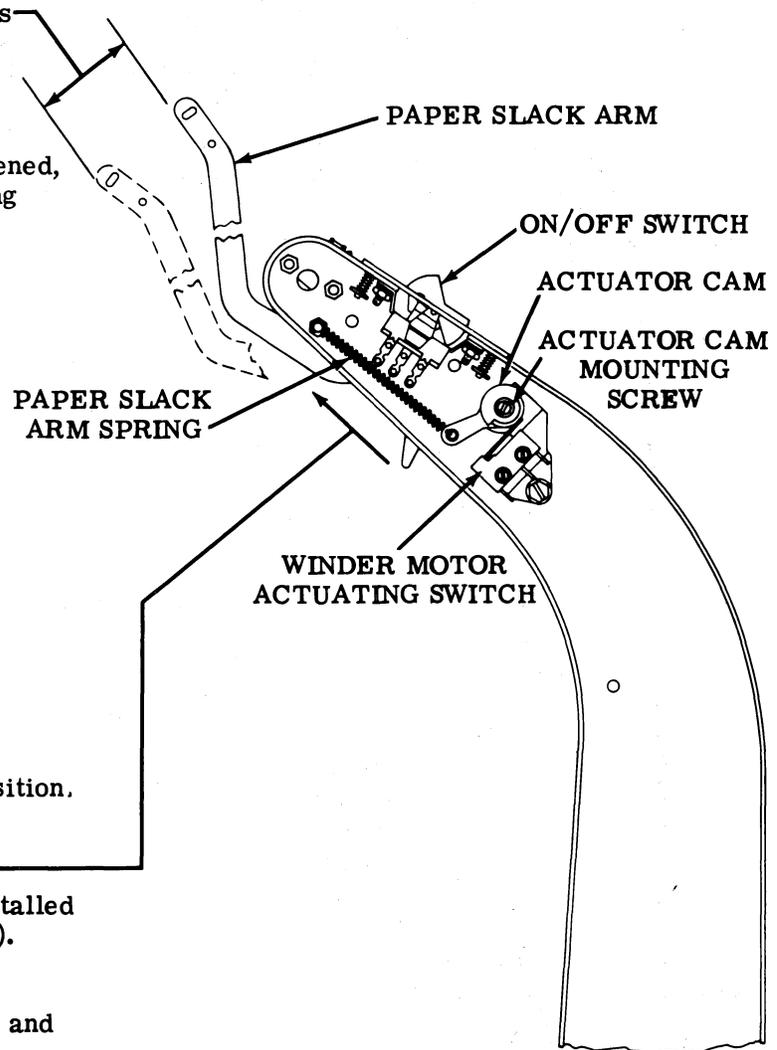
Requirement

Switch should open power line to motor when paper slack arm is lowered

Min 2-1/2 inches---Max 2-3/4 inches

To Adjust

With actuator cam mounting screw loosened, position actuator cam. Tighten mounting screw.



PAPER SLACK ARM SPRINGS  
(RIGHT AND LEFT BRACKETS)

To Check

Paper slack arm should be in raised position.

Requirement

Min 18 oz---Max 20 oz

to pull paper slack arm spring to its installed length (check both right and left springs).

To Adjust

If requirement is not met, replace right and left paper slack arm springs.

(Right Side Bracket  
With Coverplate  
Removed)

### 3. LUBRICATION

3.01 The cover, base, cabinet, paper unwinder, and paper winder should be lubricated as directed in this portion of the section.

3.02 The photographs show paragraph numbers referring to particular line drawings of mechanisms and illustrates the location of these mechanisms on the particular unit. Parts are shown in an upright position, viewed from the front, unless otherwise stated.

3.03 Spring loops, felt washers, and certain shafts should be oiled. The friction surfaces of all exposed moving parts should be lubricated; however, overlubrication should be avoided. Exercise care to prevent oil or grease from getting between magnet armature pole faces. Keep all electrical contacts free of ink, oil, or grease. Also, keep the cover gasket free of contamination.

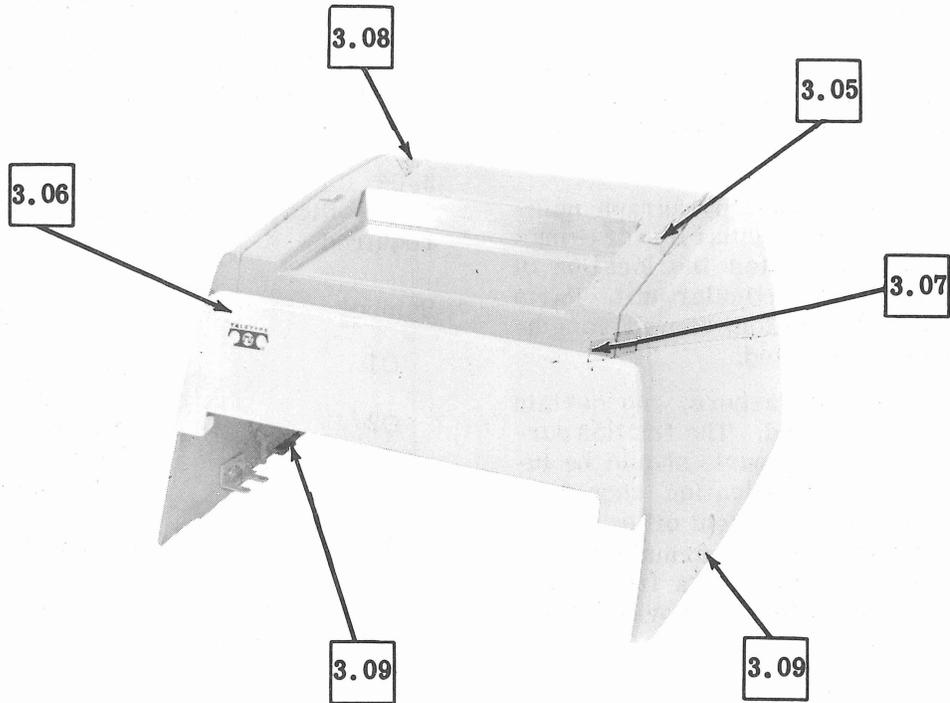
**CAUTION: REMOVE POWER FROM SET BEFORE AN ATTEMPT IS MADE TO INSPECT, LUBRICATE, OR CLEAN ANY PORTION OF THE UNITS.**

3.04 The following symbols are used to indicate the type and amount of lubricant required.

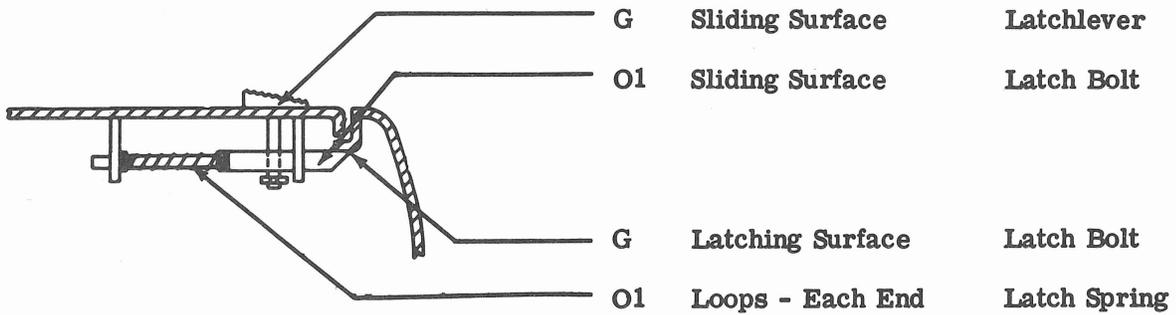
<u>Symbol</u>	<u>Meaning</u>
O1	One drop of oil (KS7470-TP88970)
O2	Two drops of oil (KS7470-TP88970)
G	Thin coat of grease (TP145867)
AL	Grease (TP301313)

Note: Use TP194853 oil injector to lubricate fans as specified.

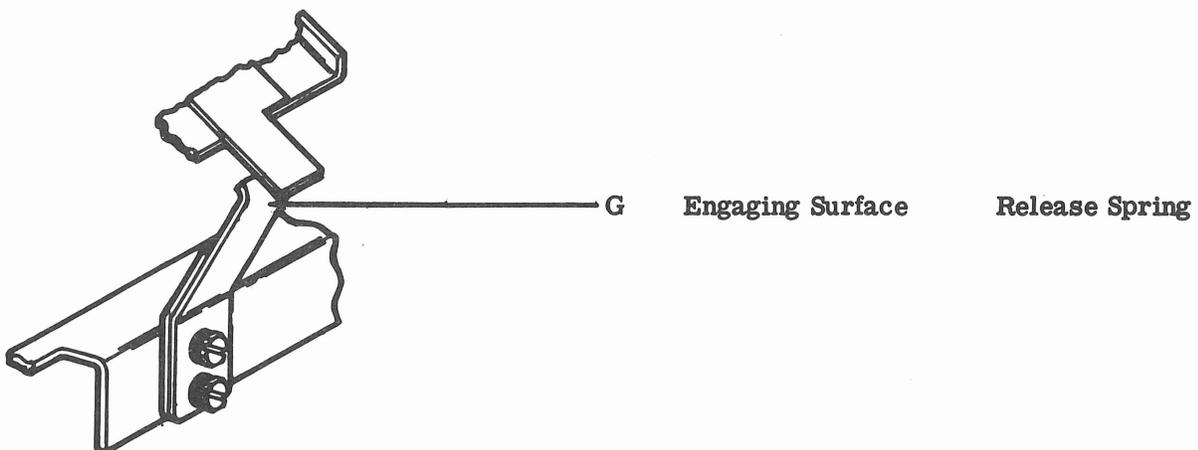
COVER



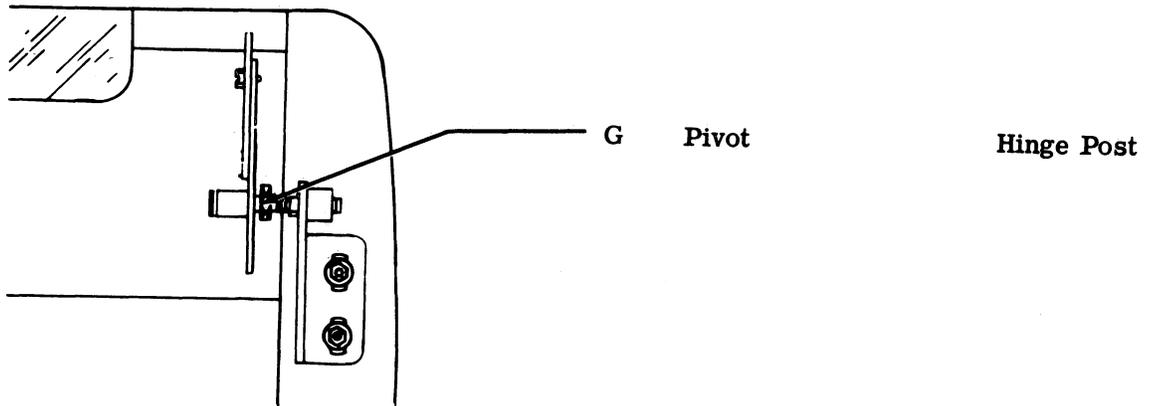
3.05 Front Lid Latches



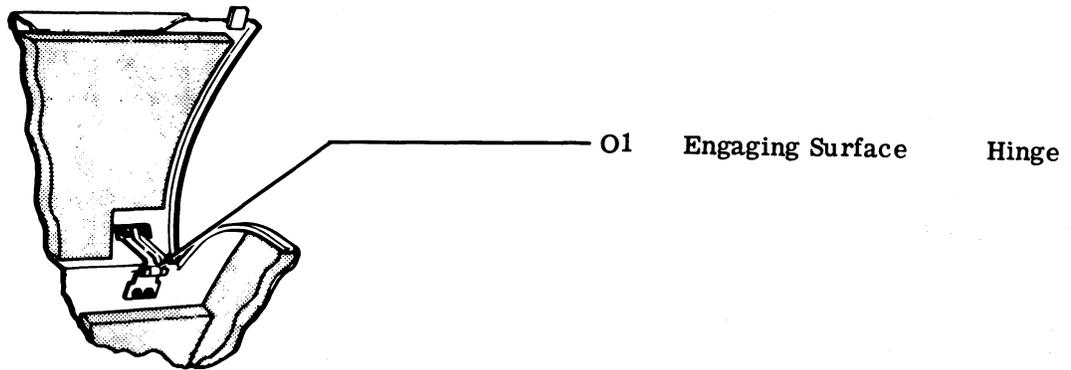
3.06 Front Lid Release Spring



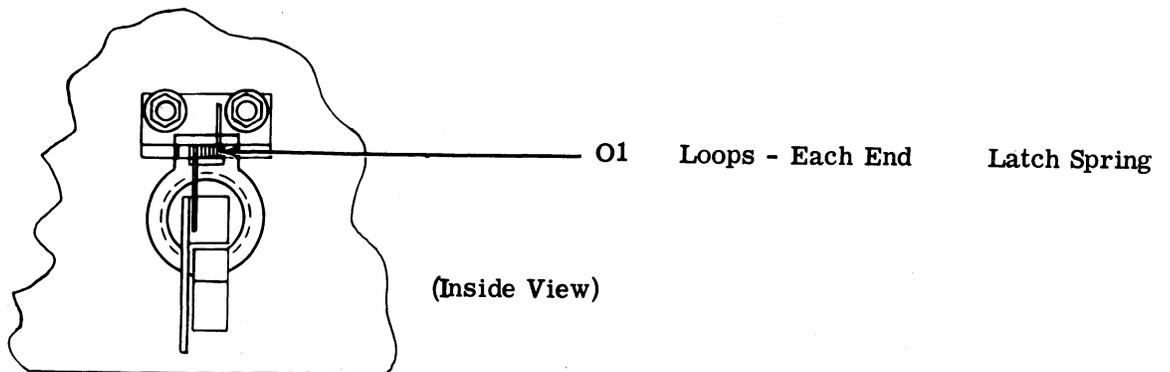
3.07 Front Lid Hinge Post



3.08 Rear Lid Hinges (Right and Left)

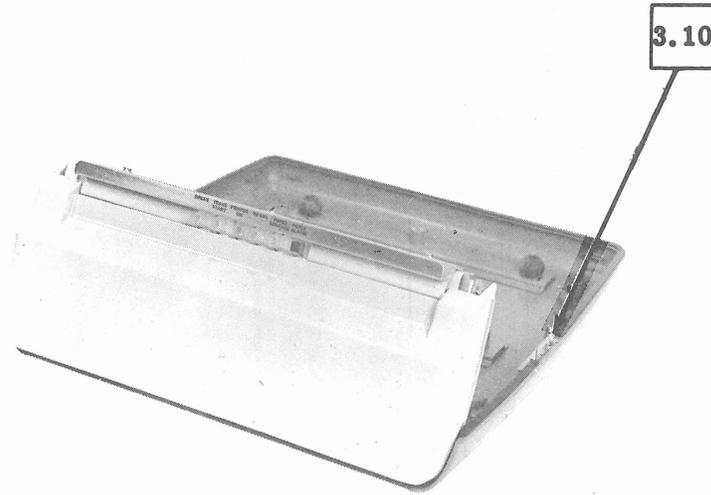


3.09 Cover Latches (Right and Left)

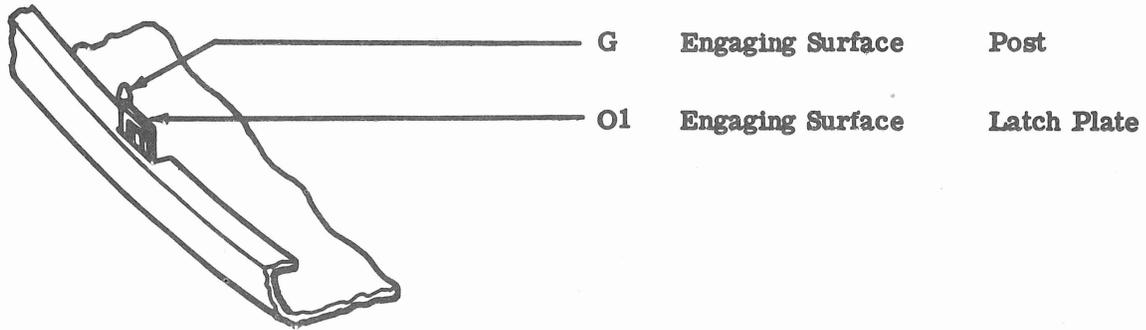


SECTION 592-820-701

BASE



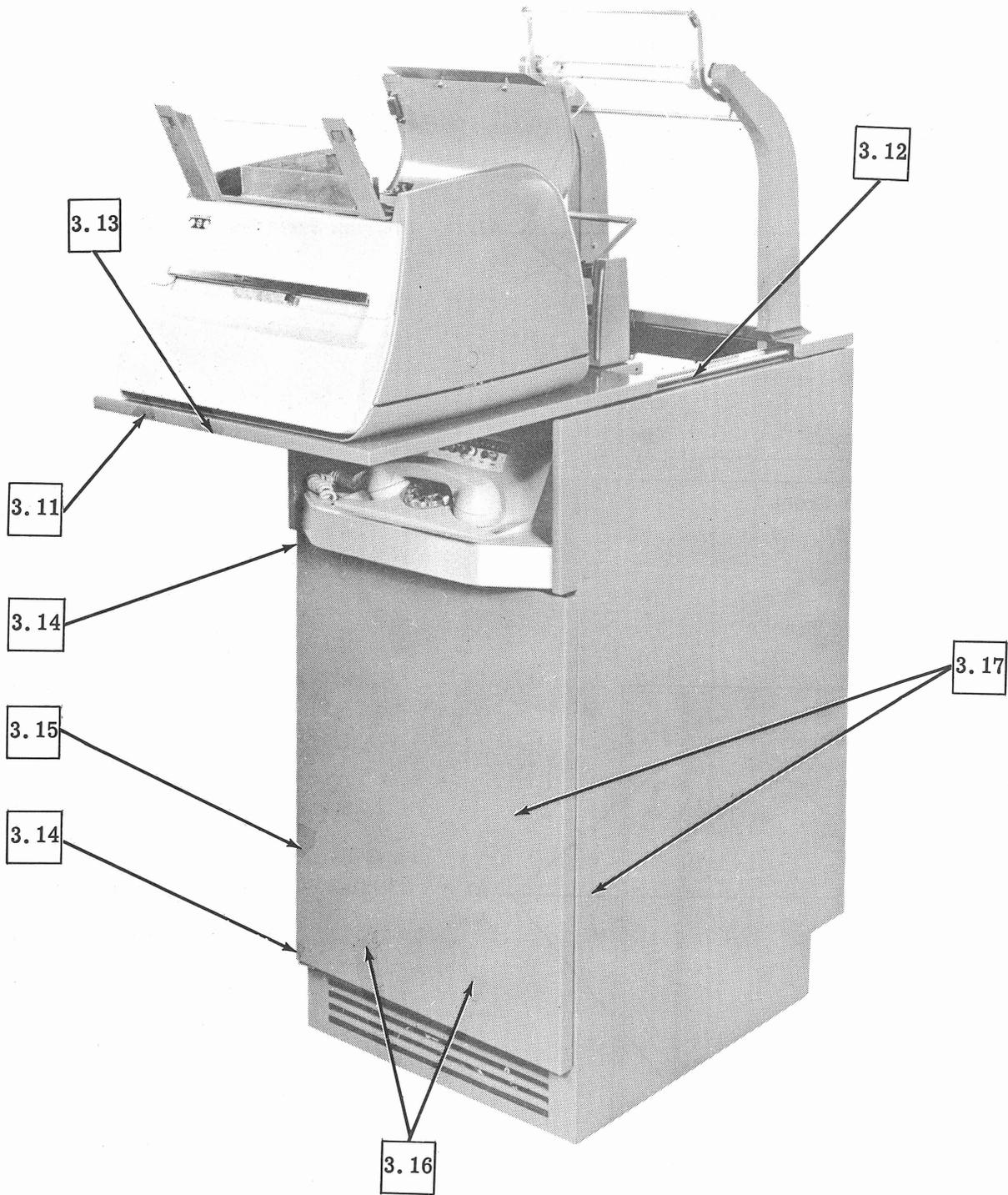
3.10 Cover Guide Posts



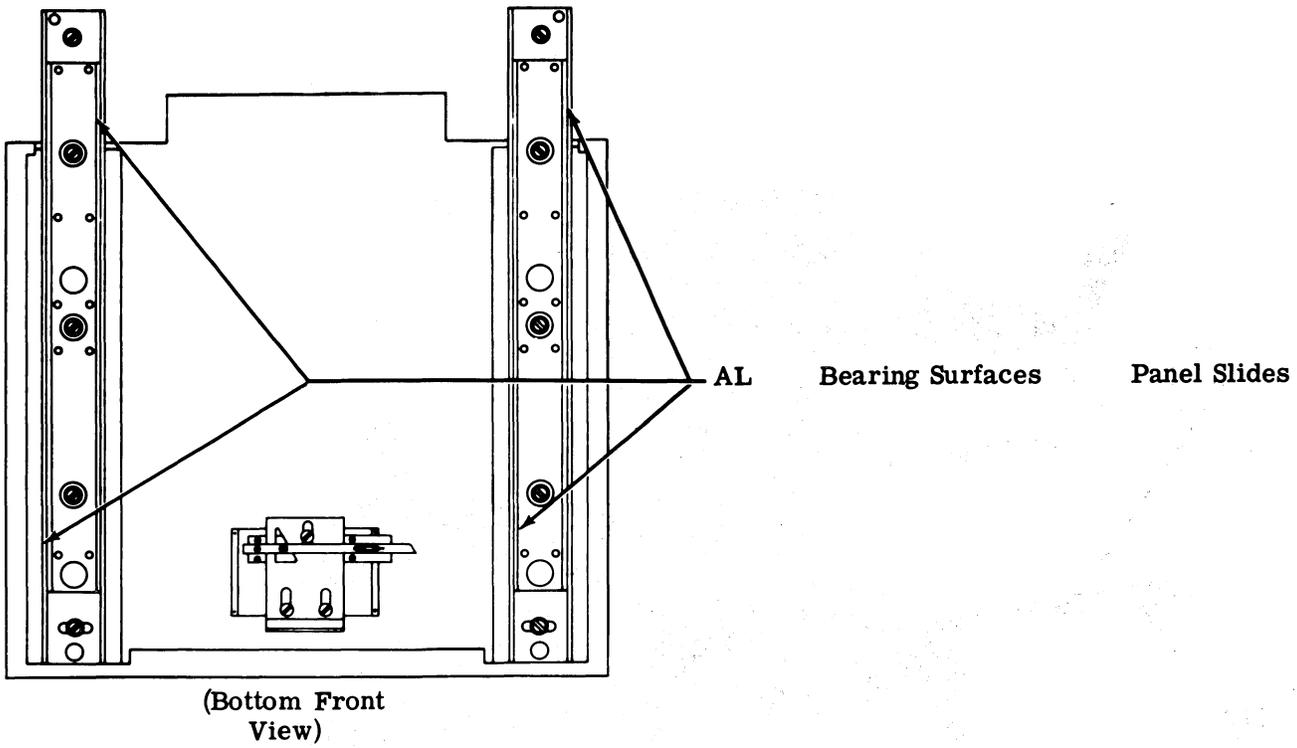
Engaging Surface Post

Engaging Surface Latch Plate

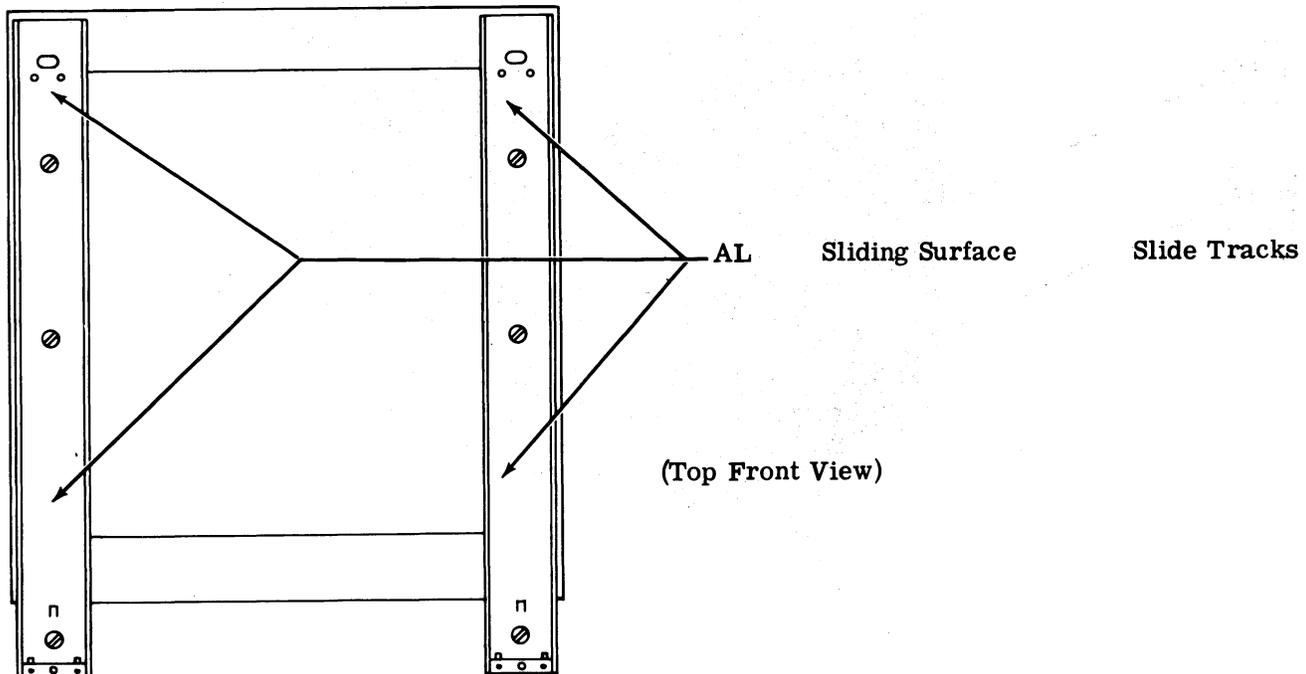
CABINET



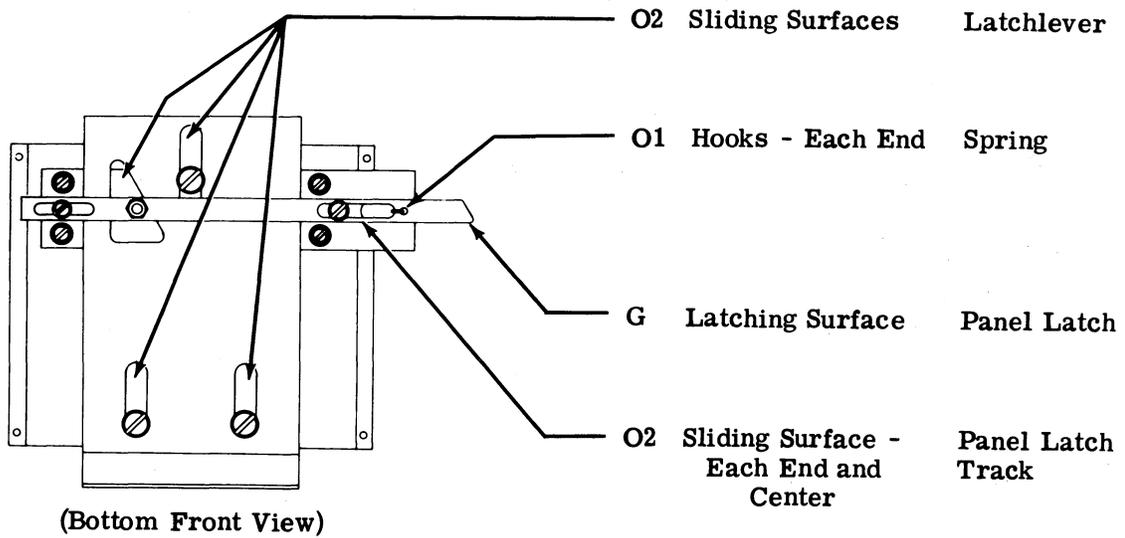
3.11 Top Panel Slides



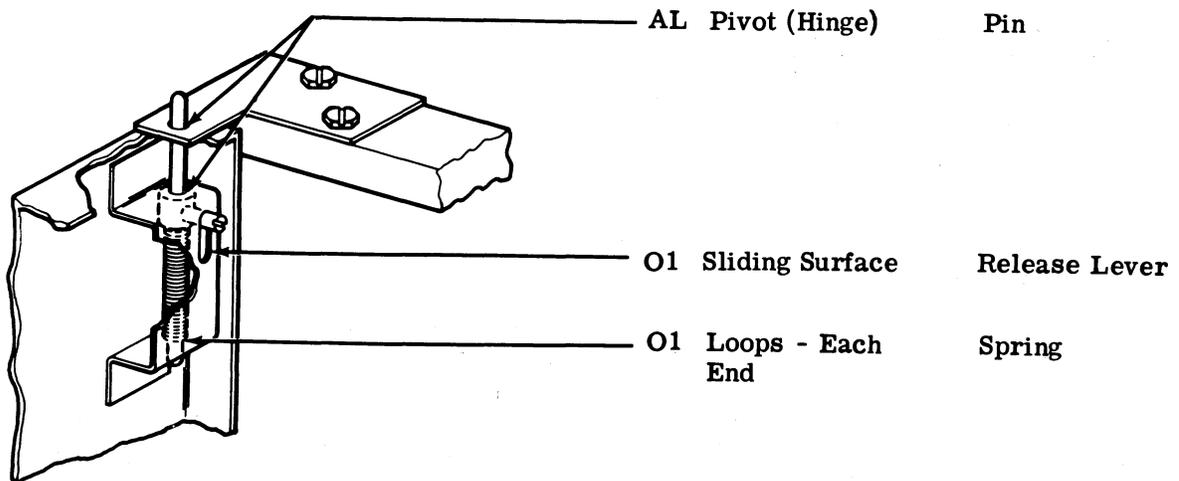
3.12 Top Panel Slide Tracks



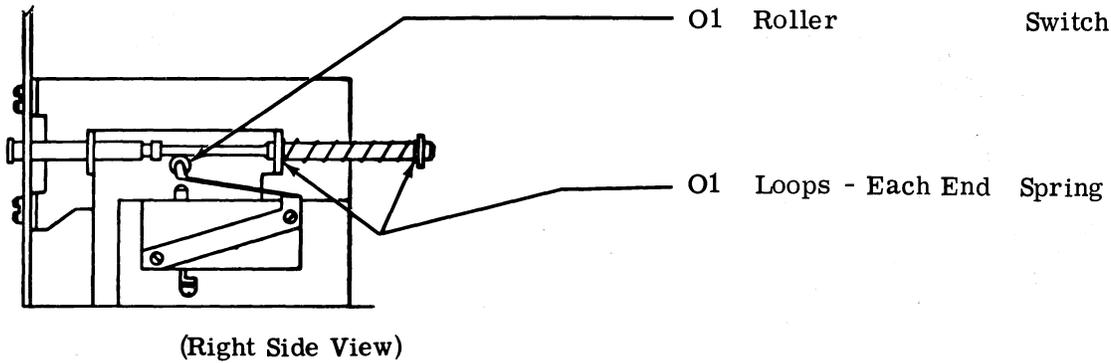
3.13 Sliding Panel Latch



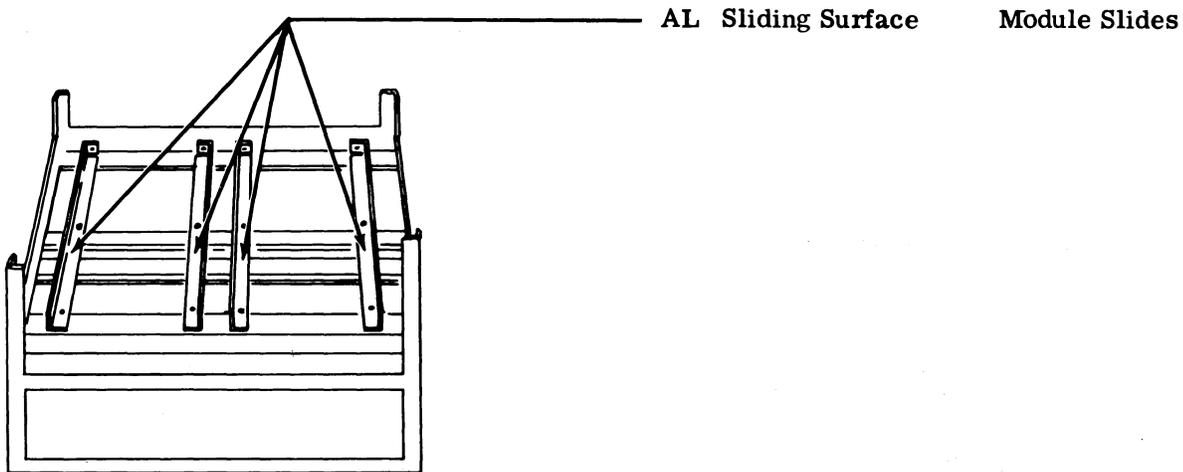
3.14 Front Door Pivots (Hinge) — Upper and Lower



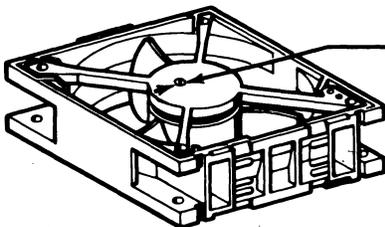
3.15 Interlock Override Switch



3.16 Module Slides



3.17 Ventilation Fans



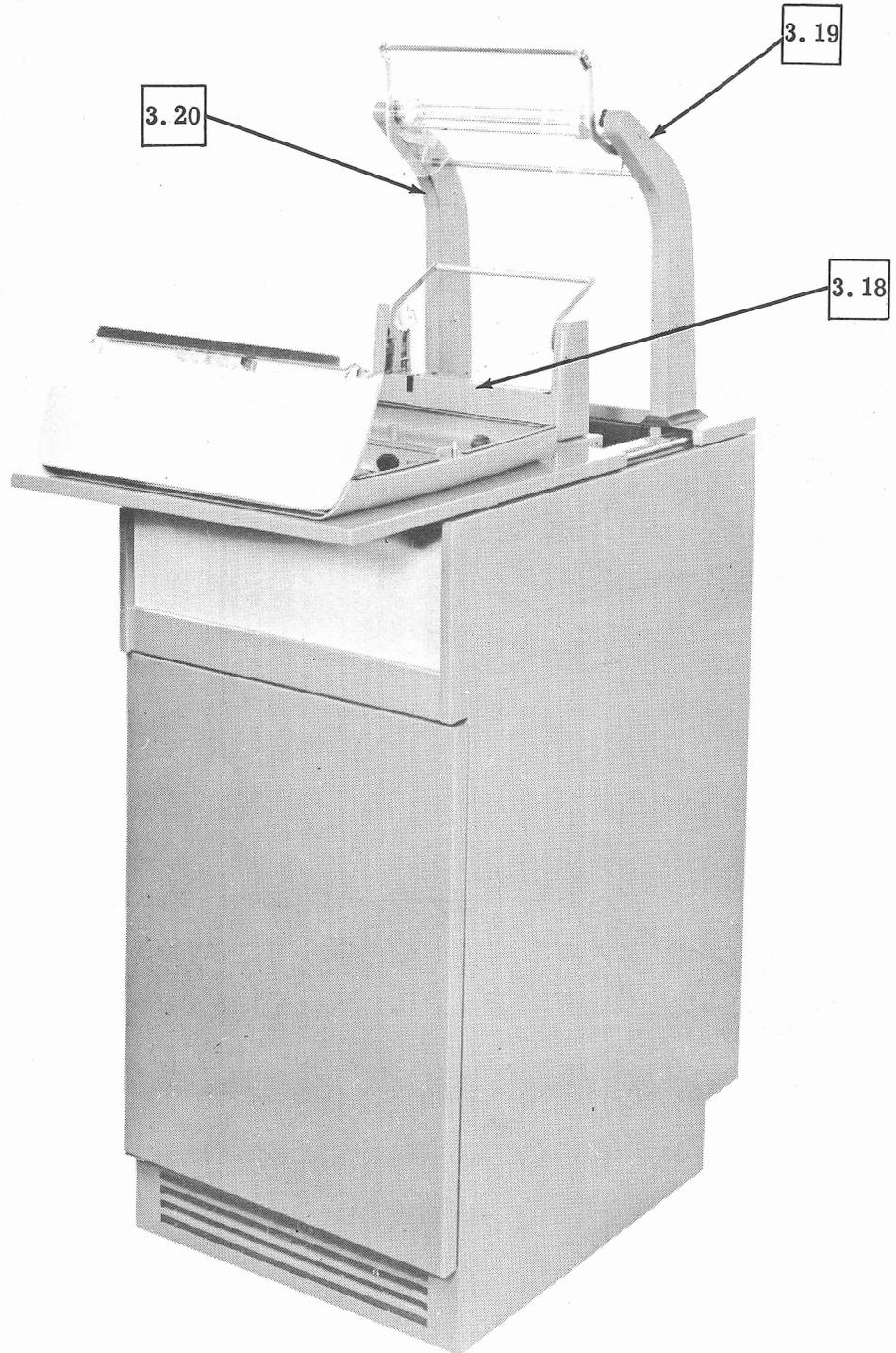
Lubricate the fans every 10,000 hours using the TP194853 oil injector.

To lubricate:

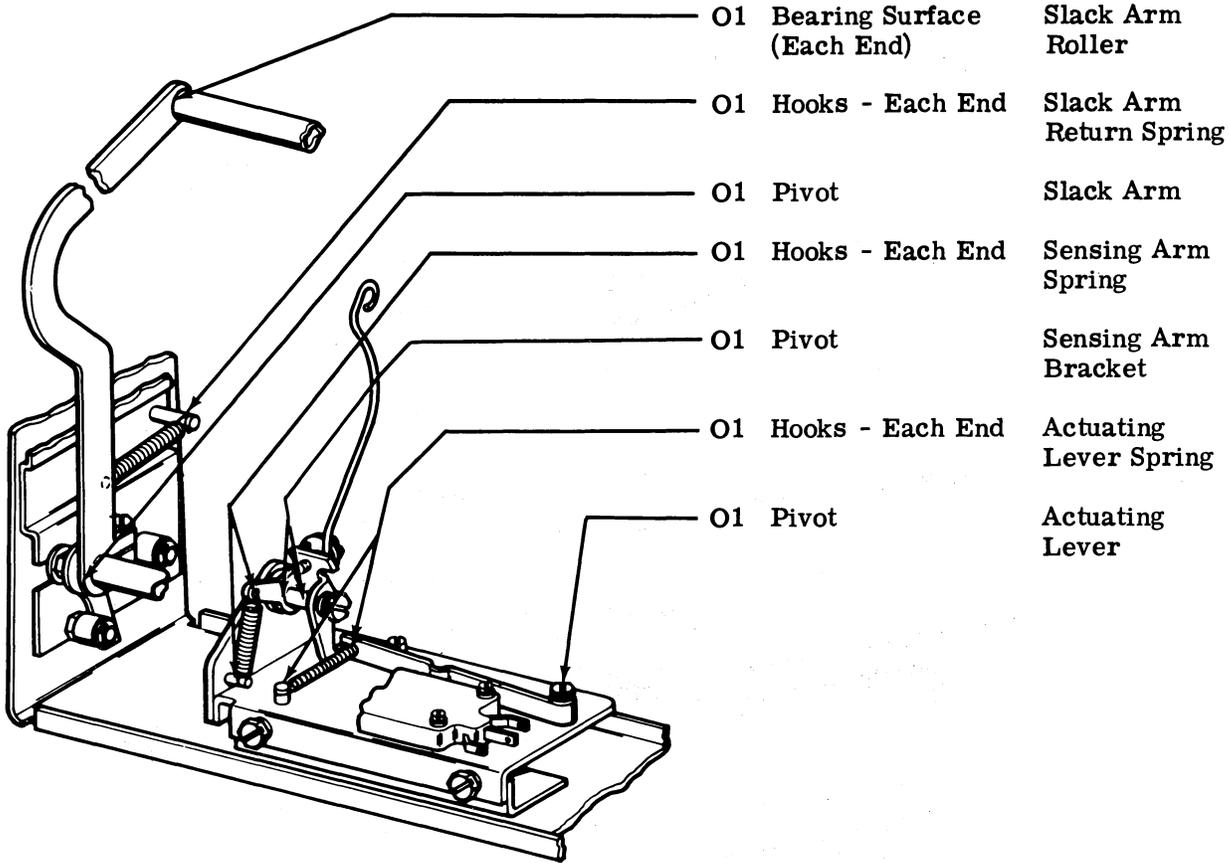
- (1) Remove cap from end of oil injector.
- (2) Place needle at the center of the circle marked on the gold label.
- (3) Position the needle at an angle of approximately 45° to the surface of the label.
- (4) Pierce the label and the concealed self-sealing rubber cap located under the label.
- (5) Depress the oil injector plunger slowly to release approximately 1/8 inch of oil.

**Note:** Two fans are located in the cabinet base.

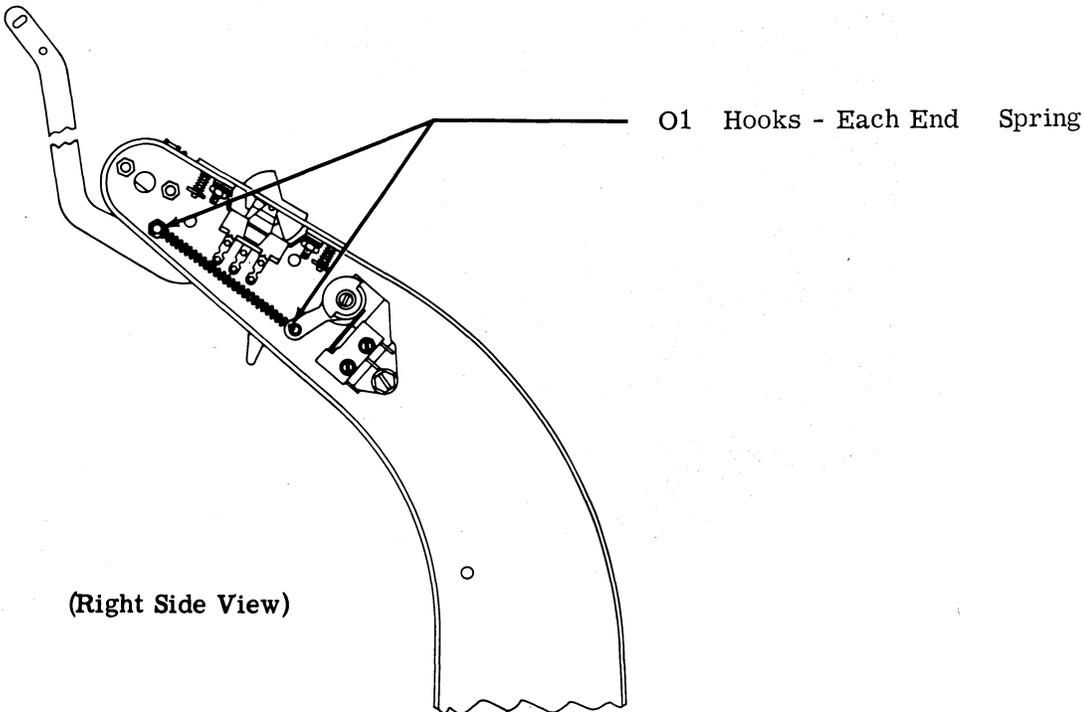
PAPER UNWINDER AND WINDER



3.18 Slack and Sensing Arms



3.19 Right Bracket



3.20 Left Bracket

