"DATASPEED®" PRINTER (RECEIVE-ONLY)

ENCLOSURES AND PAPER HANDLING

ADJUSTMENTS AND LUBRICATION

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Prepared for American Telephone and Telegraph Company by Teletype Corporation © 1968 by Teletype Corporation

1. GENERAL

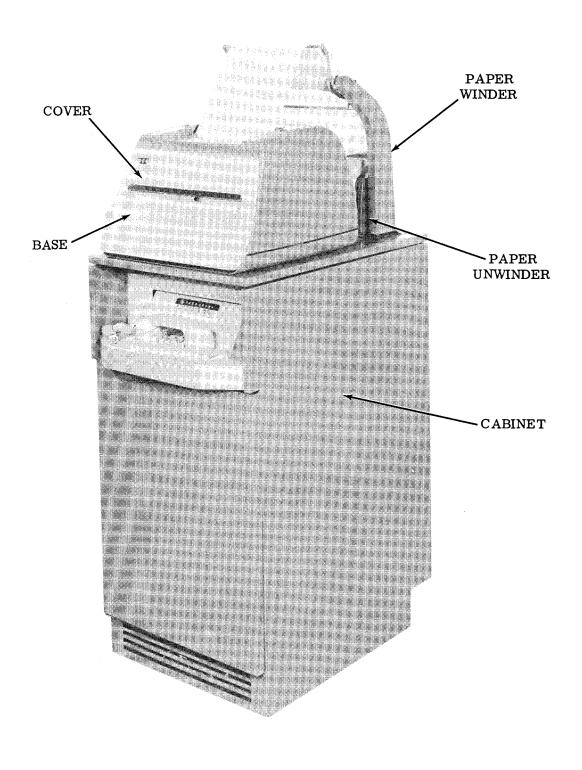
1.01 This section provides the adjustments and lubrication procedures for the maintenance of the cover, base, cabinet, paper unwinder, and paper winder as used in the DATASPEED printer (receive-only). It is being reissued to change the title and to incorporate recent engineering changes. Since it is a general revision, marginal arrows used to indicate changes and additions are omitted. This section was formerly designated 592-820-701, but this number is now cancelled. Since this issue of Section 578-500-701 is a revision of Section 592-820-701, Issue 2, it is designated Issue 3.

CAUTION: REMOVE POWER FROM SET BEFORE CHECKING OR MAKING ADJUST-MENTS 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 ad-

justment 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 578-500-801 (formerly Section 592-820-801). For the tools necessary in making the adjustments, refer to Section 570-005-800.



Typical DATASPEED Printer (Receive-Only)

2. ADJUSTMENTS

2.01 Cover

COVER AND BASE GASKET

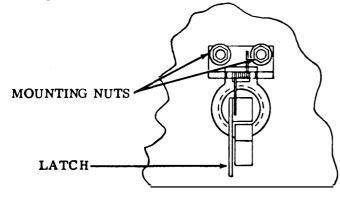
COVER

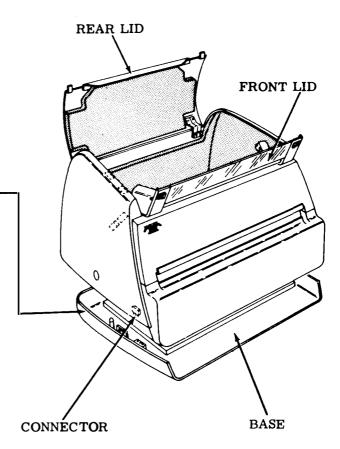
Requirement

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

(Inside View)

(1) Requirement

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

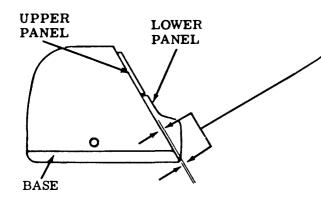
(2) Requirement

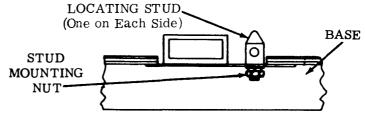
Bottom leading edge of cover should be

Min some---Max 0.078 inch
under flush with base.

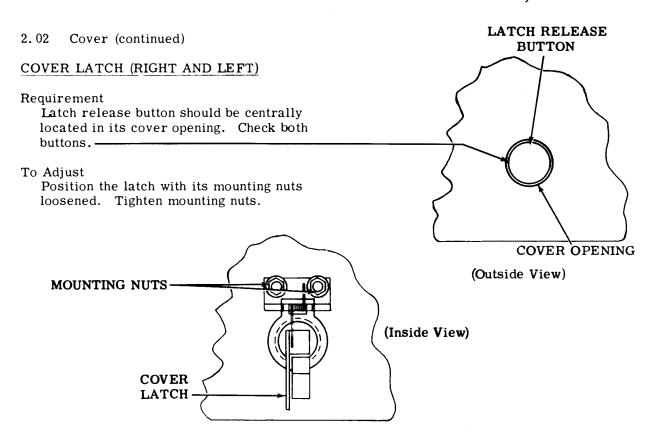
To Adjust

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





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COVER ALIGNMENT --- FINAL

(1) Requirement

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

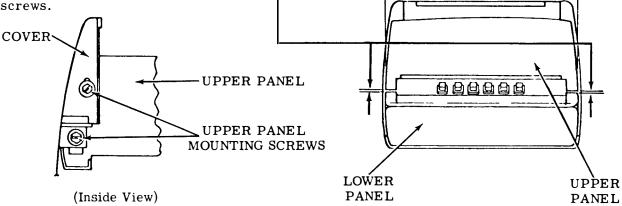
(2) Requirement

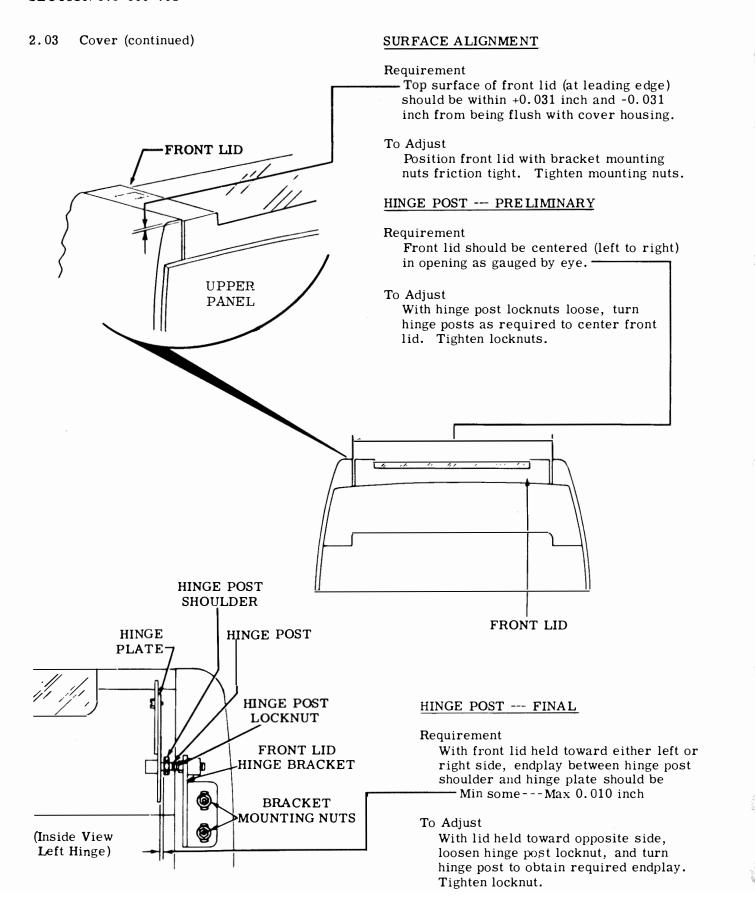
Clearance between upper panel and lower panel should be

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.





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2.04 Cover (continued)

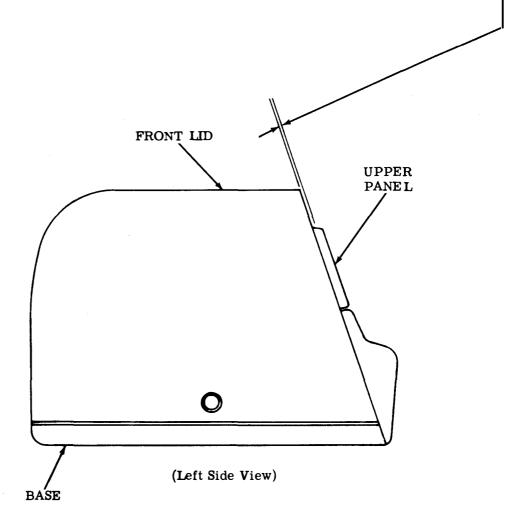
FRONT LID --- UPPER PANEL CLEARANCE

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

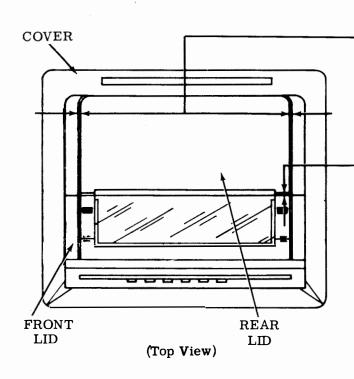
Min some --- Max 0.047 inch-

(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.



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

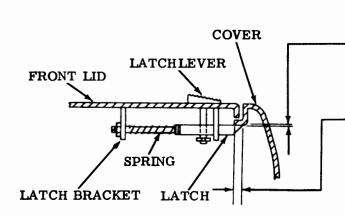
(2) Requirement

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.



BASE

999999

UPPER FRONT PANEL

LOWER FRONT PANEL

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

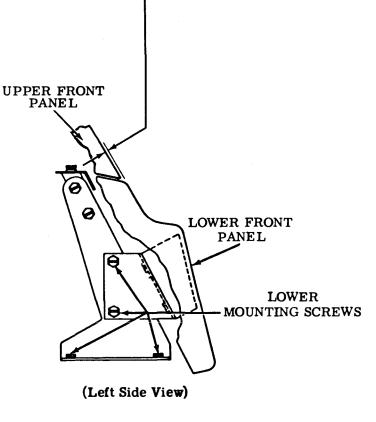
Bottom edge of lower front panel should be flush with base gasket.

(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

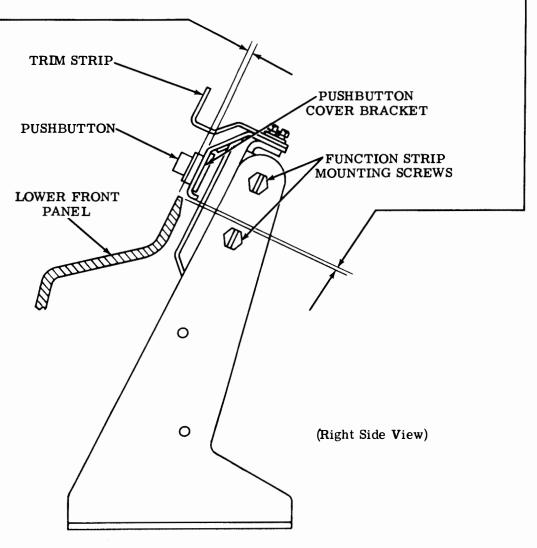
Clearance between pushbutton cover bracket and lower front panel should be minimum, as gauged by eye.

(3) Requirement

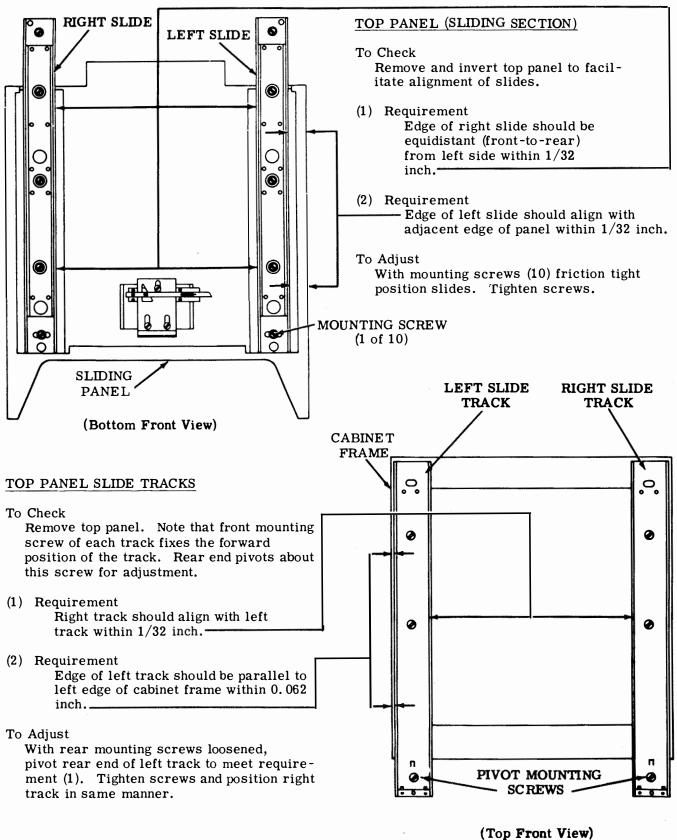
Function strip pushbuttons should have bind-free operation.

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



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

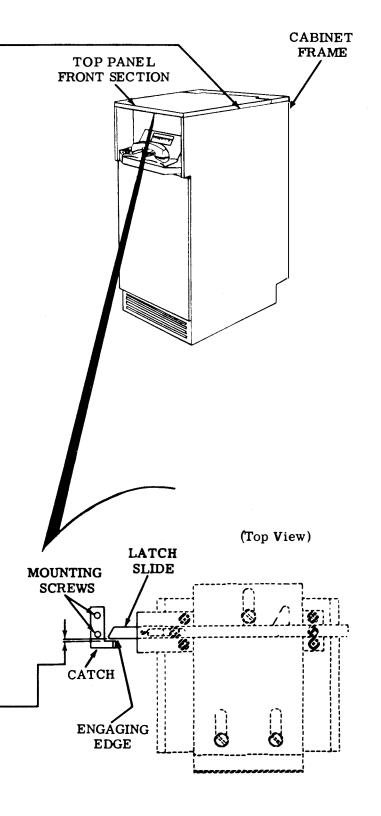
Top sliding panel should be in its normally closed position.

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.

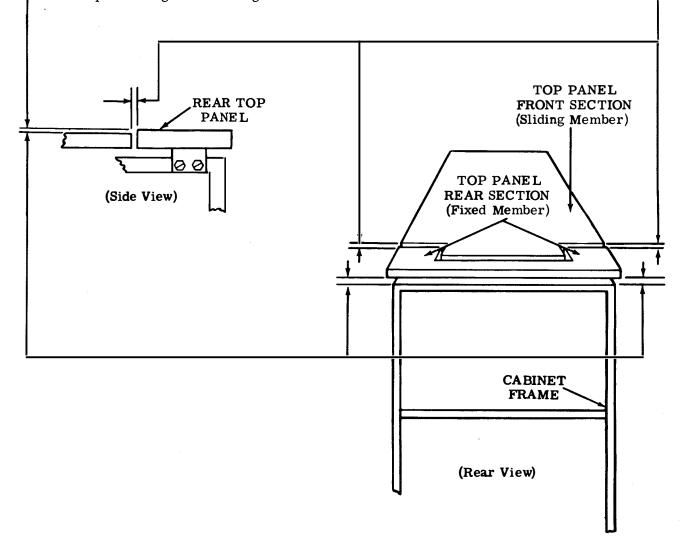
(2) Requirement

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 -

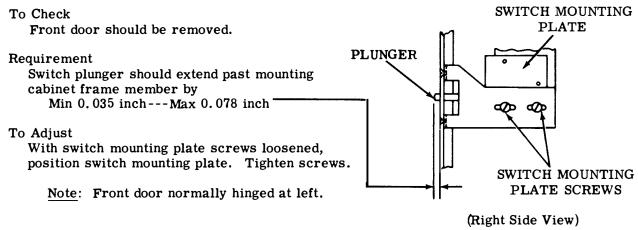
To Adjust

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



2.11 Cabinet (continued)

HIGH VOLTAGE INTERLOCK — OVERRIDE SWITCH

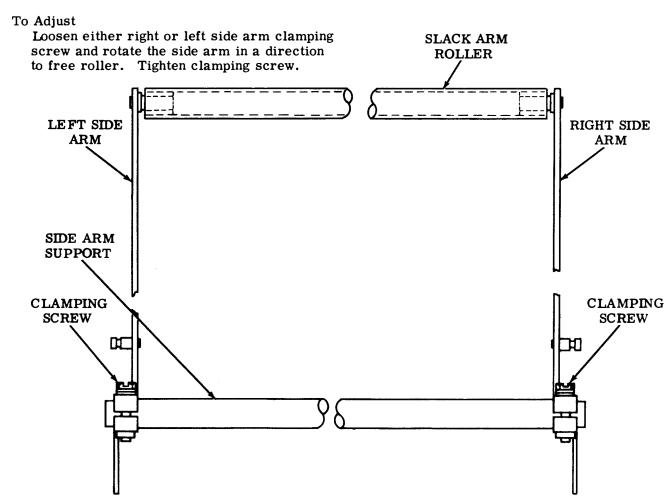


2.12 Paper Unwinder

SLACK ARM ROLLER

Requirement

Slack arm roller should be free to rotate.



2.121 Paper Unwinder (continued)

Note: 'V" pulley with an "O" ring added to spindle, and insert added to slack arm to arrest overtravel of reel in its idle mode.

SLACK ARM STOP (Latest Design)

To Check

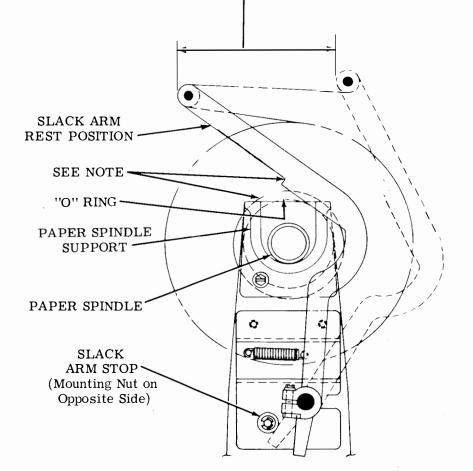
Paper spindle should be empty and slack arm should be in rest position.

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 slack arm stop (adjust right and left stops). Tighten mounting nut.



(Left Side View)

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2.13 Paper Unwinder (continued)

SLACK ARM STOPS — PRELIMINARY — (Early Design)

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 (Early Design)

To Check

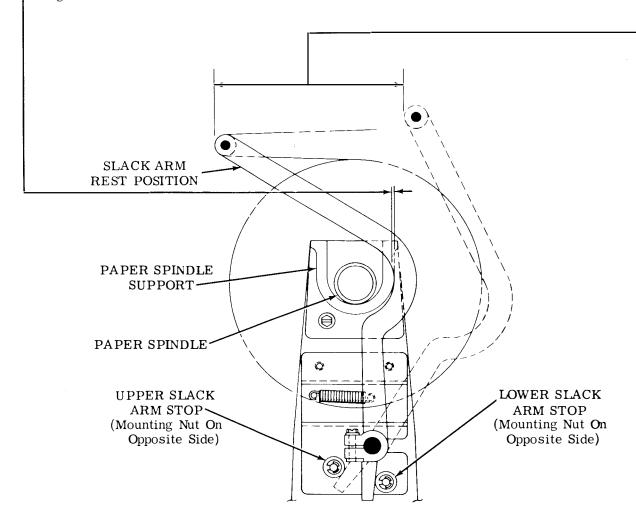
Paper spindle should be empty and slack arm should be in rest position.

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.



(Left Side View)

2.14 Paper Unwinder (continued)

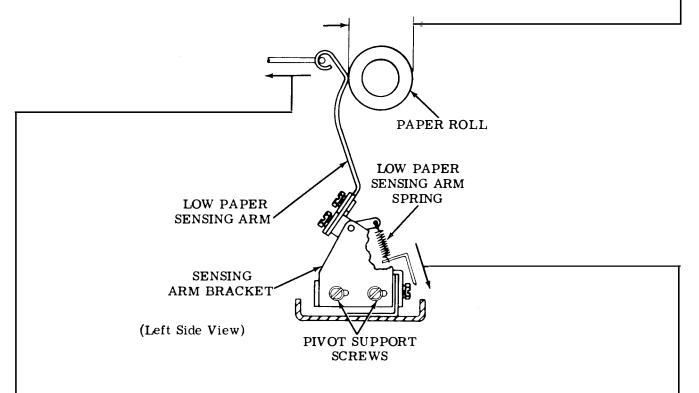
LOW PAPER SENSING ARM

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.

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2.141 Paper Unwinder (continued)

SLACK ARM RETURN SPRING (Latest Design)

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

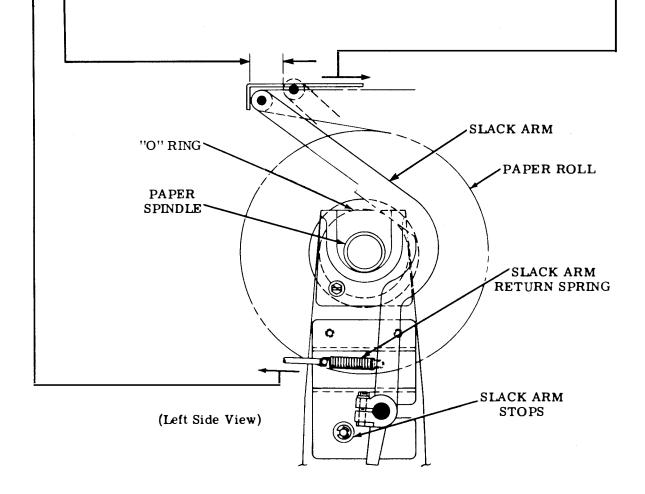
This should result in a force of

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).



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2.15 Paper Unwinder (continued)

SLACK ARM RETURN SPRING (Early Design)

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

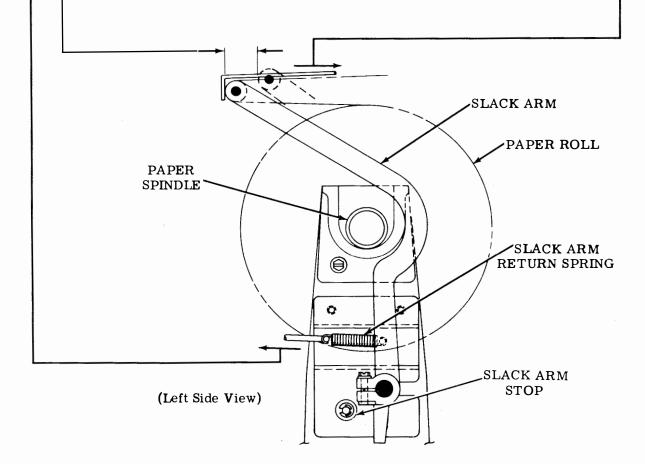
This should result in a force of

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

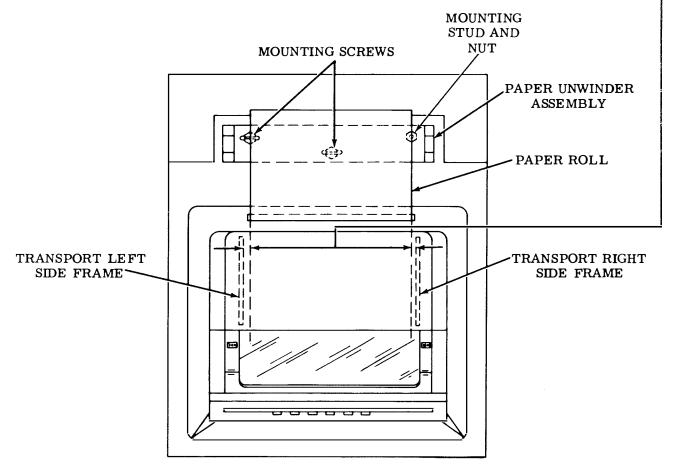
Feed paper through unit without necessarily printing.

Requirement

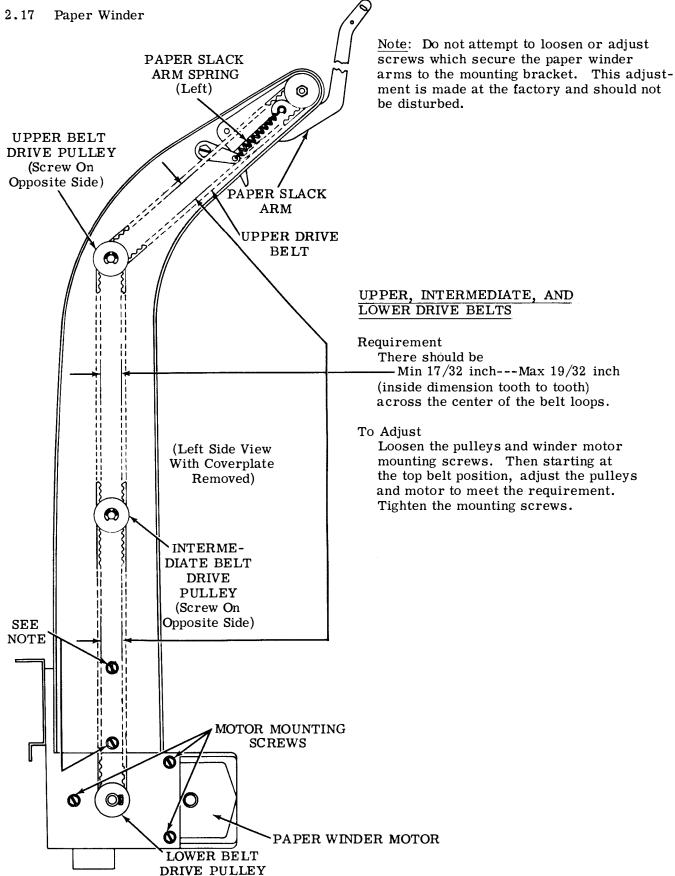
Paper should be centered with no more than 1/8 inch difference between side frames of transport mechanism and edge of paper on each side.

To Adjust

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



(Top View)



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 1-1/16 inches---Max 1-3/16 inches-

Note: On late design units having an antiback-up feature

Min 3/4 inch---Max 7/8 inch-

To Adjust

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

PAPER SLACK ARM-

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).

Note: On late design units having an antiback-up feature

Min 20 oz --- Max 23 oz -

To Adjust

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

PAPER SLACK
ARM SPRING

WINDER
MOTOR
ACTUATING
SCREW

PAPER SLACK ARM

(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.

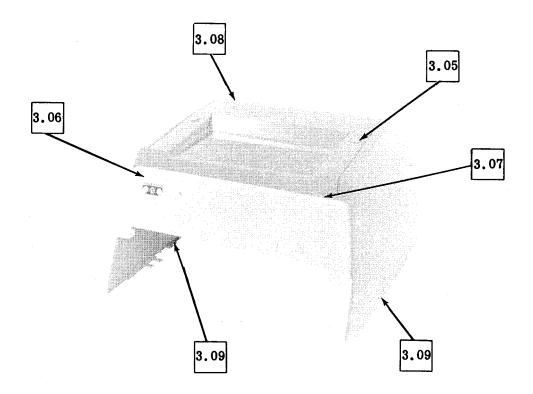
CAUTION: REMOVE POWER FROM SET BEFORE AN ATTEMPT IS MADE TO INSPECT, LUBRICATE, OR CLEANANY PORTION OF THE UNITS.

3.04 Refer to Section 570-005-800 for lubricant ordering information. The following symbols are used to indicate the type and amount of lubricant required:

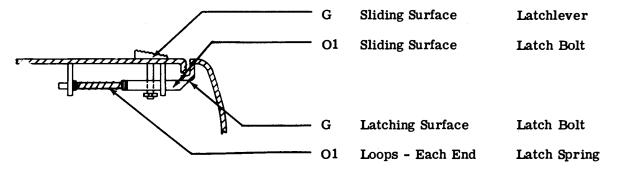
Symbol	Meaning
O1 O2 G	One drop of oil (KS7470) Two drops of oil (KS7470) Thin coat of grease (KS7471)
GM AL	Tacky grease (TP145867) Aero Lubriplate (TP301313)

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

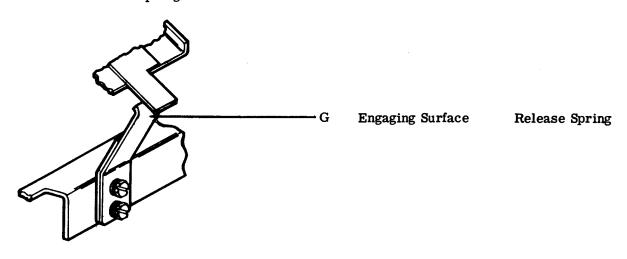
COVER



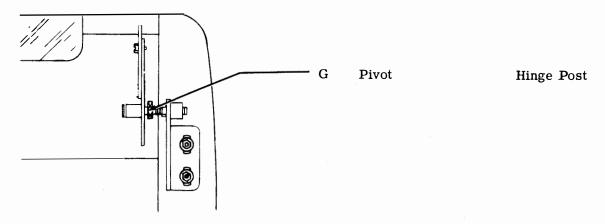
3.05 Front Lid Latches



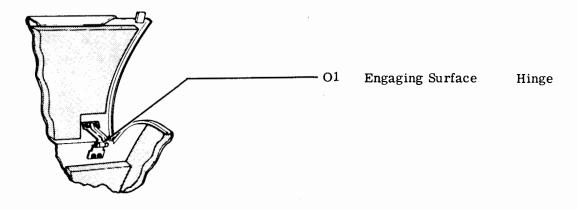
3.06 Front Lid Release Spring



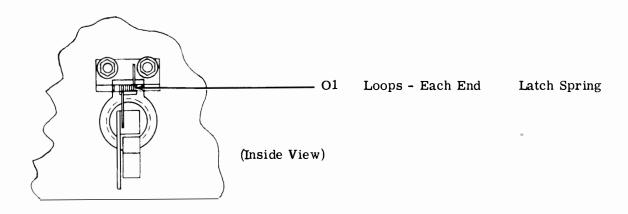
3.07 Front Lid Hinge Post



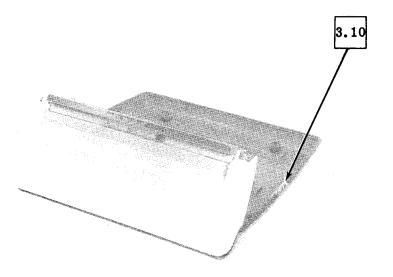
3.08 Rear Lid Hinges (Right and Left)



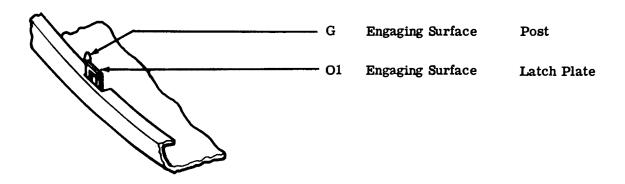
3.09 Cover Latches (Right and Left)



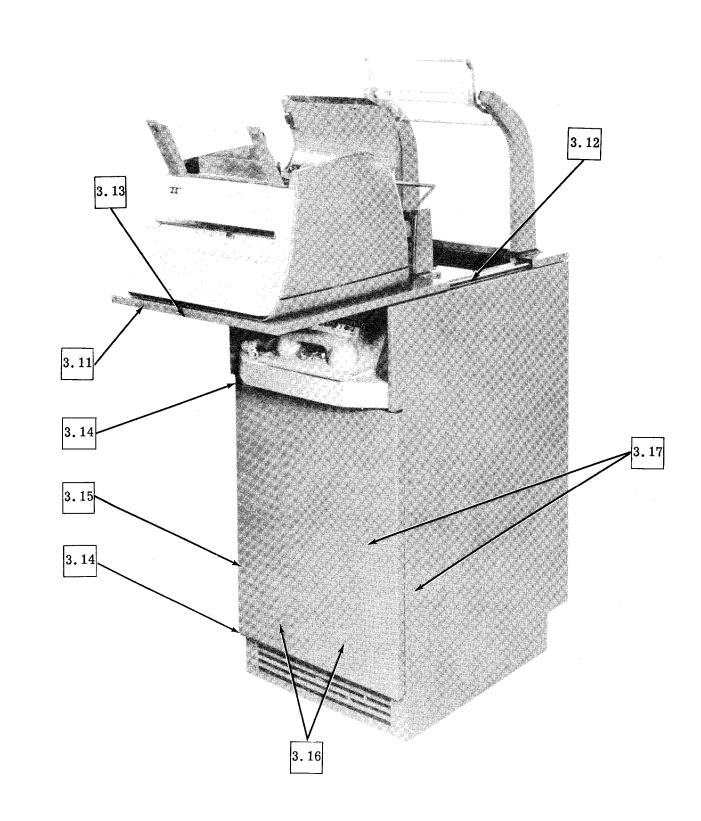
BASE



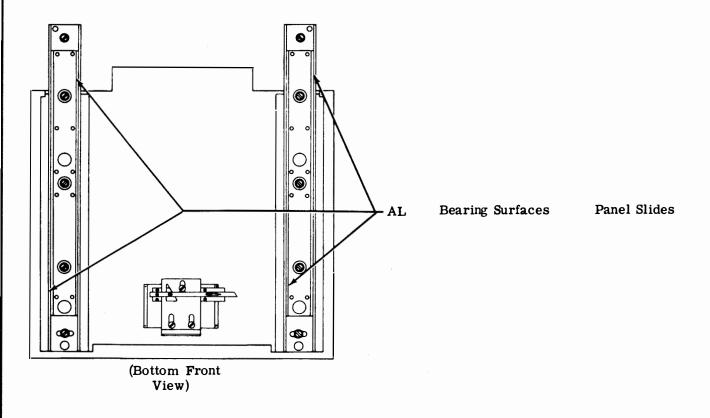
3.10 Cover Guide Posts



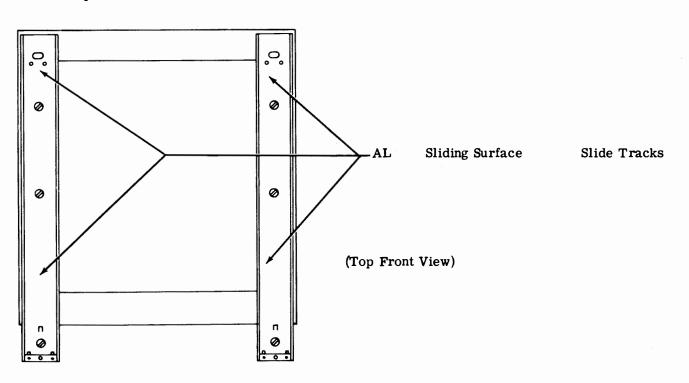




3.11 Top Panel Slides

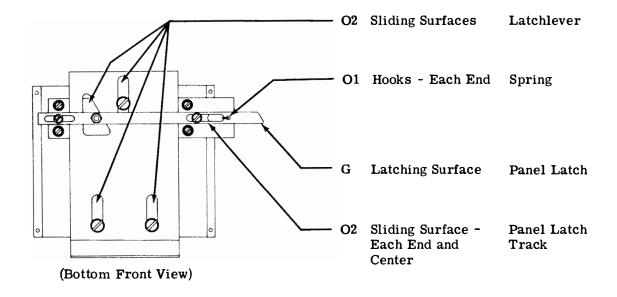


3.12 Top Panel Slide Tracks

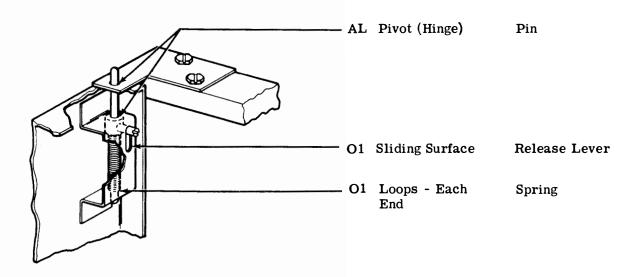


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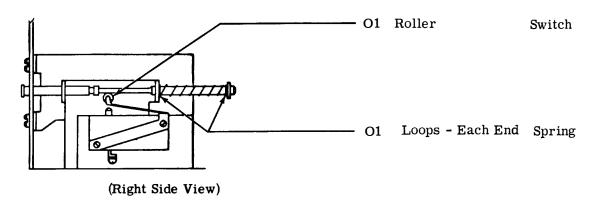
3.13 Sliding Panel Latch



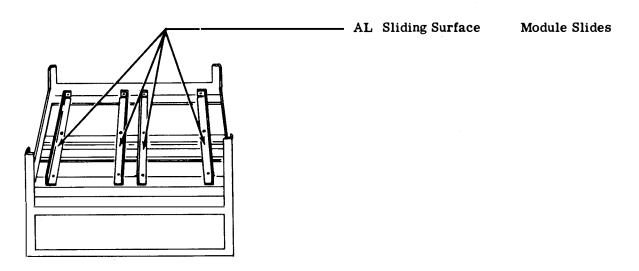
3.14 Front Door Pivots (Hinge) — Upper and Lower



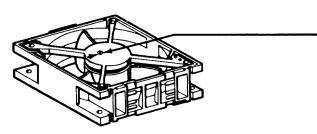
3.15 Interlock Override Switch



3.16 Module Slides



3.17 Ventilation Fans



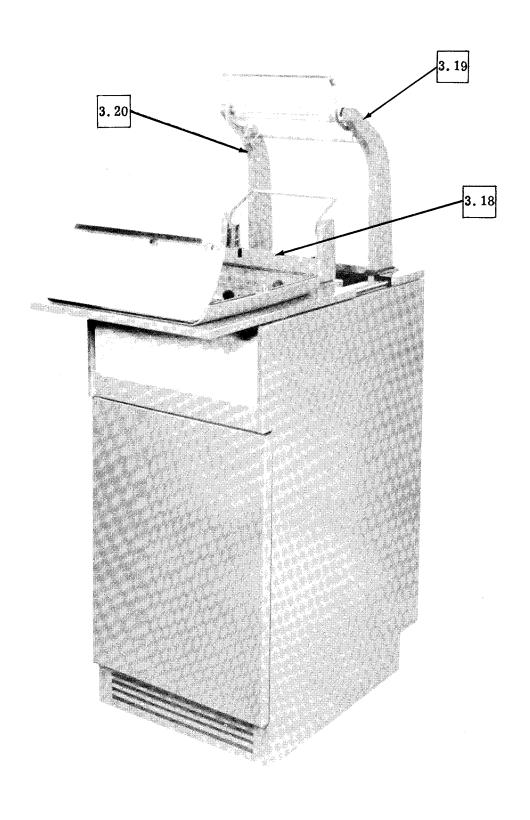
Note: Two fans are located in the cabinet base.

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

To lubricate:

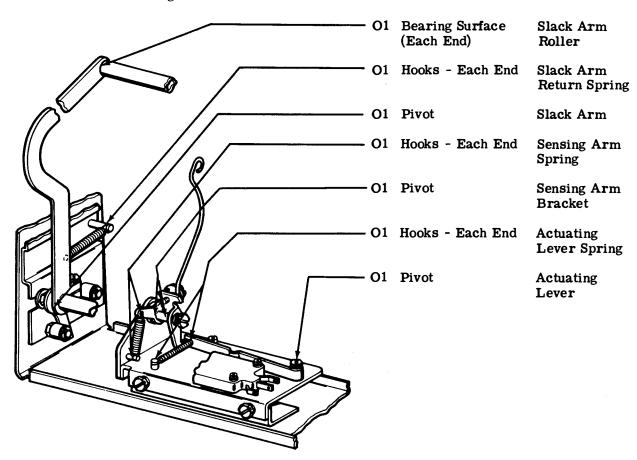
- (1) Remove cap from end of oil injector.
- (2) Place needle at the center of the circle marked on the gold label.
- (3) Position the needle at an angle of approximately 450 to the surface of the label.
- (4) Pierce the label and the concealed self-sealing rubber cap located under the label.
- (5) Depress the oil injector plunger slowly to release approximately 1/8 inch of oil.

PAPER UNWINDER AND WINDER

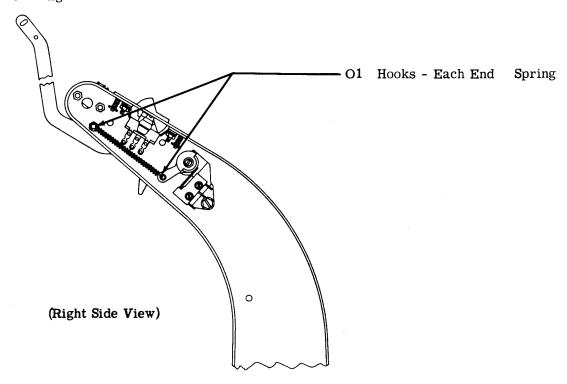


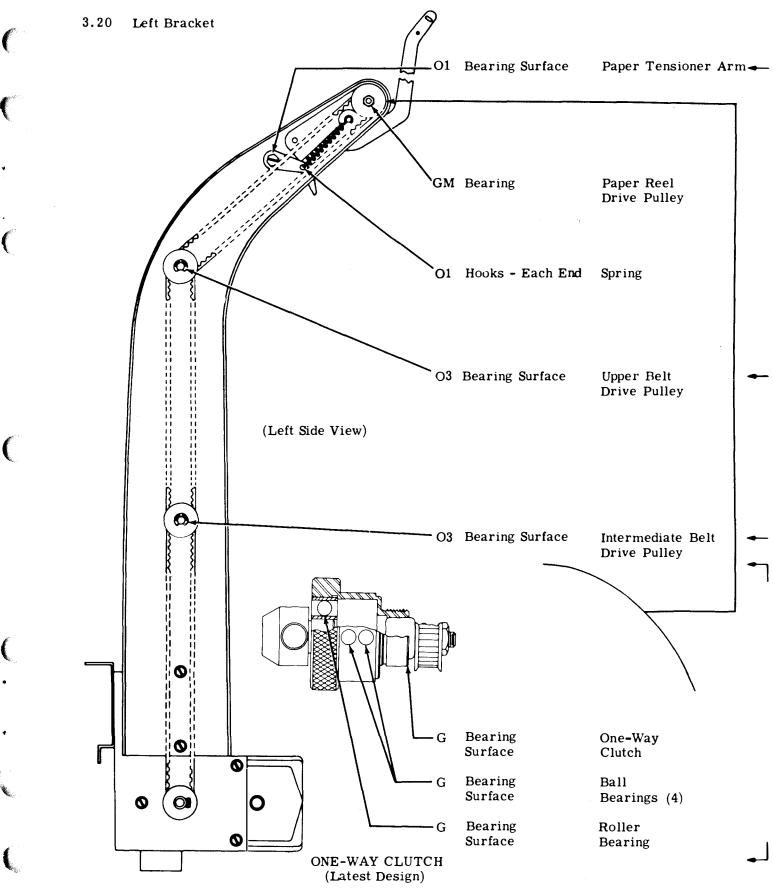
SECTION 578-500-701

3.18 Slack and Sensing Arms



3.19 Right Bracket





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