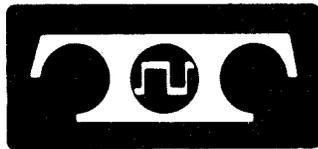


BULLETIN 281B
VOL. 1

TECHNICAL MANUAL
MODEL 35
KEYBOARD SEND-RECEIVE (KSR) AND
RECEIVE-ONLY (RO)
TELETYPEWRITER SETS



TELETYPE[®]
CORPORATION

5555 TOUHY AVENUE, SKOKIE, ILLINOIS

281B
VOLUME 1

INTRODUCTION

Bulletin 281B is a technical manual that provides descriptive, installing and maintenance information for the Model 35 Keyboard Send-Receive (KSR) and Receive-Only (RO) Teletypewriter Sets and their components.

The Bulletin consists of two volumes. Volume 1 contains description and operation, installation, lubrication, and disassembly and reassembly. Volume 2 contains adjustments.

Each volume is made up of a group of appropriate independent sections. They are separately identified by title and section number, and the pages of each section are numbered consecutively, independent of other sections.

The identifying number of a section, a 9-digit number, appears at the top of each page of the section, in the left corner of the left-hand pages and the right corner of the right-hand pages. The sections are placed in the manual in ascending numerical order.

To locate specific information refer to the table of contents on the following page. Find the name of the involved component in column one and the title of the section in column two. The correct 9-digit section number will then be found in column three. Turn to page one of the section indicated, where the contents of that section will be found (except where a section is small and does not require a listing of contents).

The sections comprising this bulletin are now stocked separately and may be individually ordered if the entire bulletin is not needed.

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FILING INSTRUCTIONS

1. The following filing instructions apply to changes sent to the field.
2. Asterisks (*) in the table of contents indicate changes.
3. When the issue of a section changes, replace the old issue with the attached new one.
4. In the case of addendums, turn to the affected section and follow the instructions on the first page of the attached addendum.
5. Replace the old table of contents with this new one.

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Typing Unit (LP)	Description and Operation	574-220-100TC	4
Typing Unit (LP)	Lubrication	574-220-701TC	4*
Typing Unit (LP)	Disassembly and Reassembly	574-220-702TC	1
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Electrical Service Unit (LESU)	Description and Operation	574-226-100TC	4
Call Control Unit (LCCU)	Description and Operation	574-227-100TC	2
Cabinet (LAC)	Description and Operation	574-229-100TC	3
Cabinet (LAC)	Lubrication	574-229-701TC	3
Answer-Back Unit	Description and Operation	574-235-100TC	3
Answer-Back Unit	Installation	574-235-200TC	2
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Answer-Back Unit	Disassembly and Reassembly	574-235-702TC	1

35 TYPING UNIT (LP)

LUBRICATION

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SECTION 574-220-701TC

1.02 Lubricate the 35 typing unit as directed in this section. The line drawings indicate points to be lubricated and the type and quantity of lubricant to be used. Figures 1 and 2 illustrate the general areas of lubrication on the friction feed unit and Figure 3 shows the lubrication areas on the sprocket feed unit. Lubricate the typing unit prior to placing it in service. Relubricate after a few weeks to make sure that all points have received proper lubrication. Thereafter, lubricate the typing unit at intervals of 1500 hours or six months, whichever occurs first.

1.03 Use KS7470 oil at all locations where the use of oil is indicated. Use KS7471 grease at all locations where the use of grease is indicated.

1.04 Saturate all spring wicks and felt oilers. Thoroughly lubricate the friction surfaces of all moving parts. However, avoid over-lubrication which permits oil or grease to drip or be thrown on other parts. Take special care to prevent any oil or grease from getting between the selector armature and its magnetic pole faces. Keep all electrical contacts free of oil and grease.

1.05 Apply a thin film of grease to the teeth of the range scale knob assembly (knob and gear).

1.06 Apply a thick film of grease to all gears and the spacing trip lever bail cam plate.

1.07 Apply oil to all cams, including the camming surfaces of each clutch disc.

1.08 Grease the clutch shoe lever spring loops and completely saturate the internal mechanism of the clutch assembly with oil.

1.09 Apply a thin film of oil around the outer periphery of the dashpot cup and retainer. Avoid excessive lubrication that will obstruct the dashpot parts.

1.10 The photographs serve as a guide to mechanism locations on the unit. They are also keyed to the paragraph numbers of line drawings of particular mechanisms. Parts in the line drawings are shown in an upright position unless otherwise specified. References to left, right, top, bottom, front, rear, etc, apply to the unit in its normal operating position as viewed from the operator's position in front of the unit.

1.11 The illustration symbols indicate the following lubrication directions.

<u>Symbol</u>	<u>Meaning</u>
O1	Apply 1 drop of oil.
O2	Apply 2 drops of oil.
O3	Apply 3 drops of oil, etc.
G	Apply thin film of grease.
SAT	Saturate (felt oilers, washers, wicks) with oil.

Note: During each lubrication period, check the following adjustments in Section 574-220-700TC.

1. Printing Carriage Position
2. Printing Hammer Bearing Stud
3. Printing Hammer Stop Bracket (Also see note following this adjustment.)
4. Lower Draw Wire Rope
5. Dashpot Vent Screw (Check Dashpot Transfer Slide for ease of movement.)

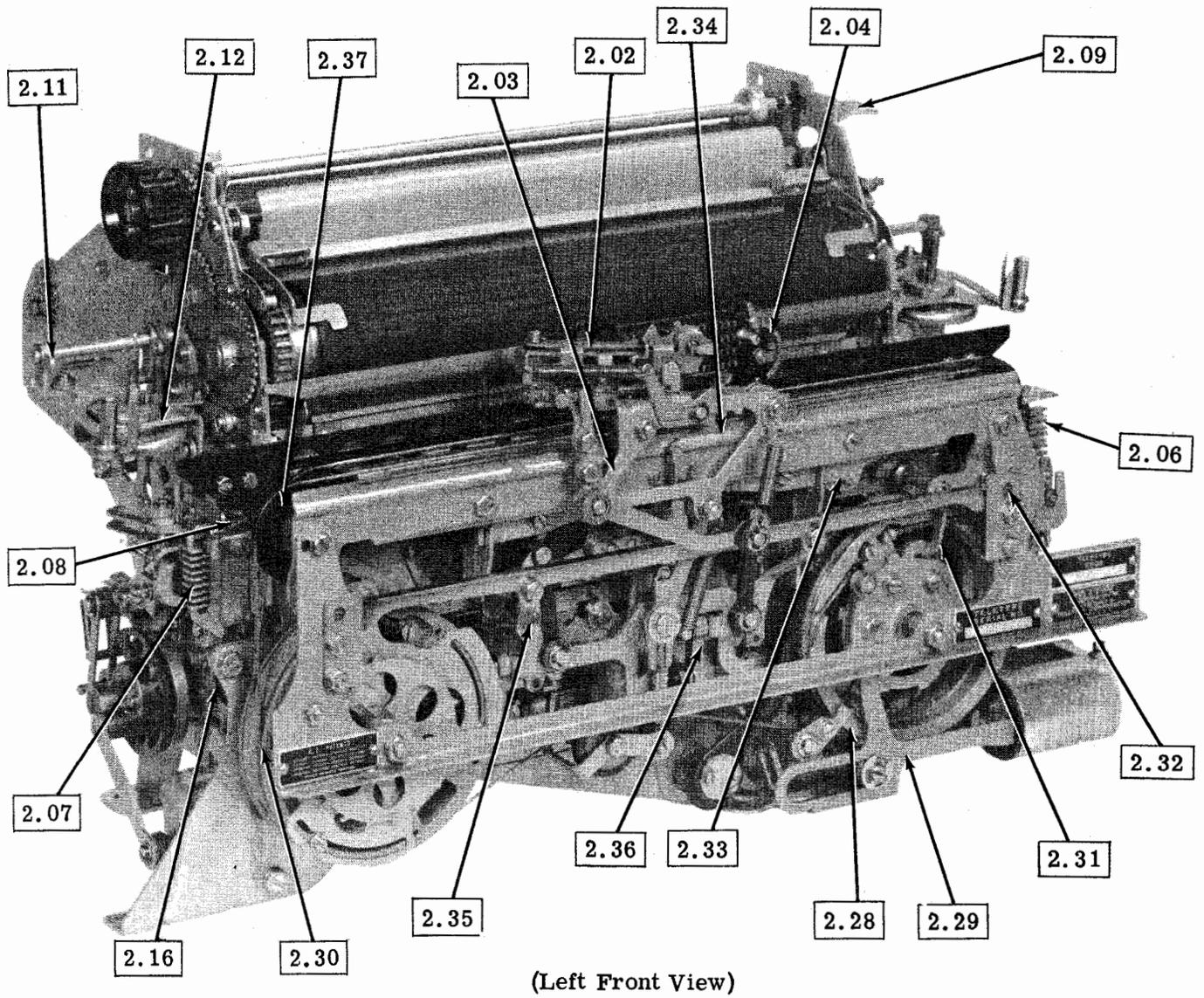


Figure 1 - 35 Typing Unit, Friction Feed

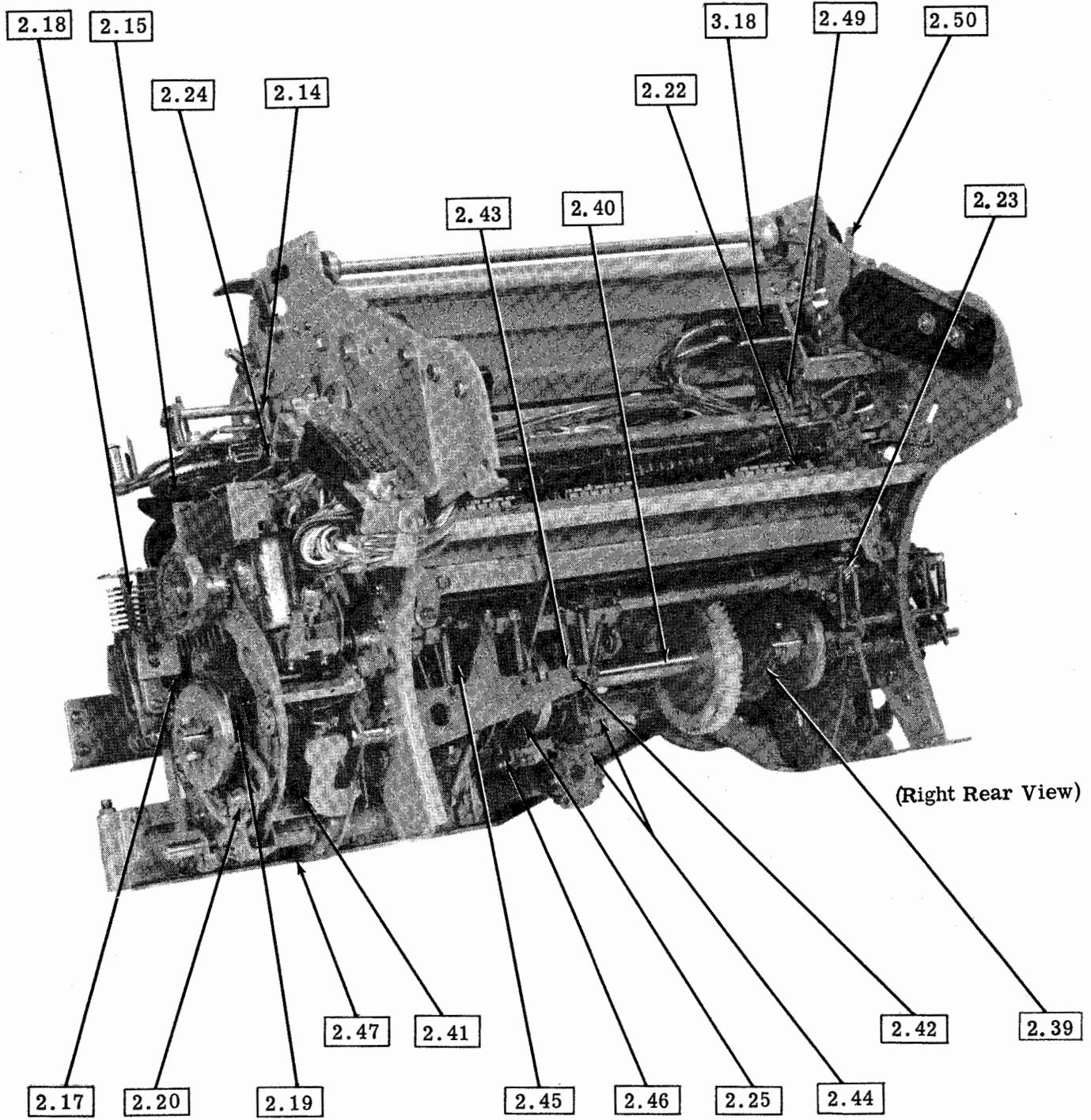
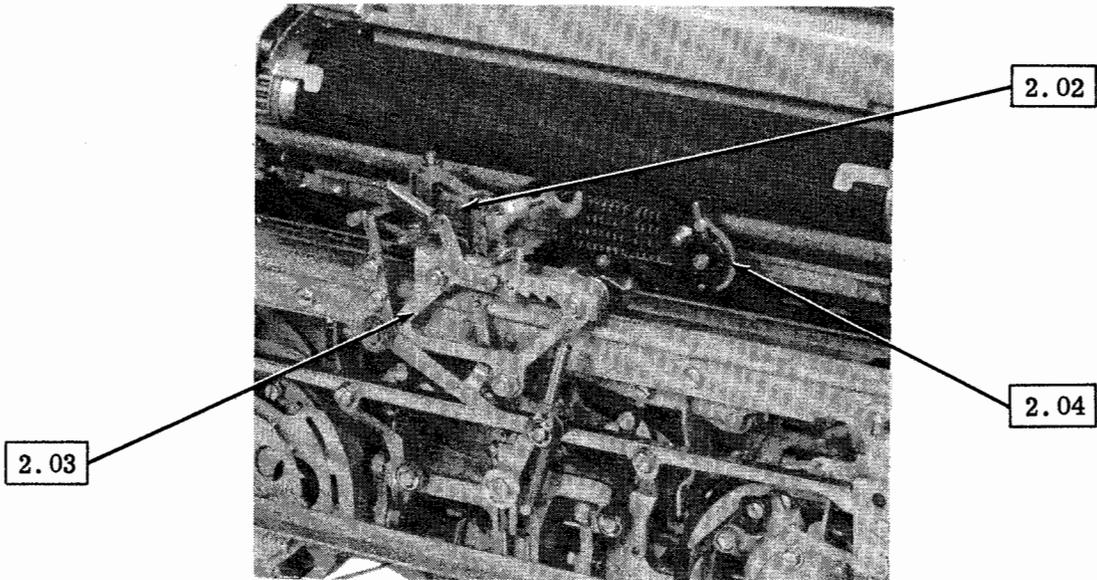


Figure 2 - 35 Typing Unit, Friction Feed

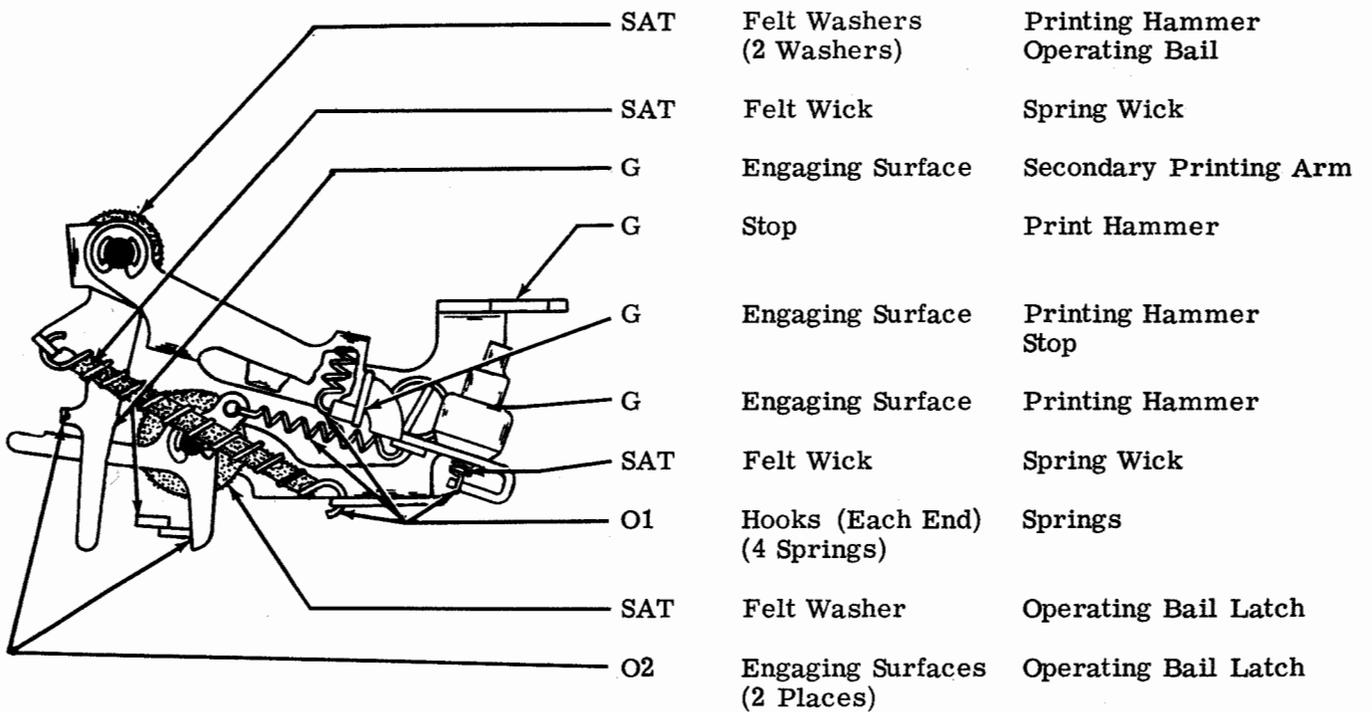
2. BASIC UNIT

2.01 Printing Area



(Front View)

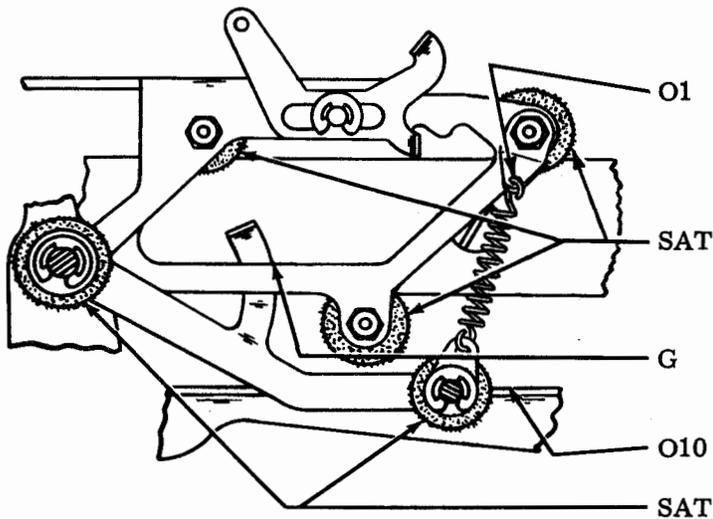
2.02 Printing Mechanism



(Top View)

SECTION 574-220-701TC

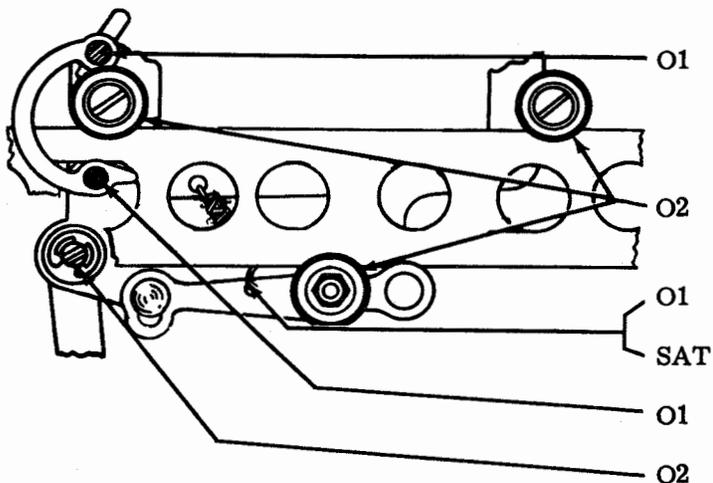
2.03 Printing Mechanism (continued)



(Front View)

- | | | |
|-----|-----------------------------|------------------------------|
| O1 | Hook (Each End) | Spring |
| SAT | Felt Washers
(3 Washers) | Printing Carriage
Rollers |
| G | Guiding Surface | Printing Arm
Extension |
| O10 | Tracking Surface | Printing Track |
| SAT | Felt Washers
(2 Washers) | Printing Arm |

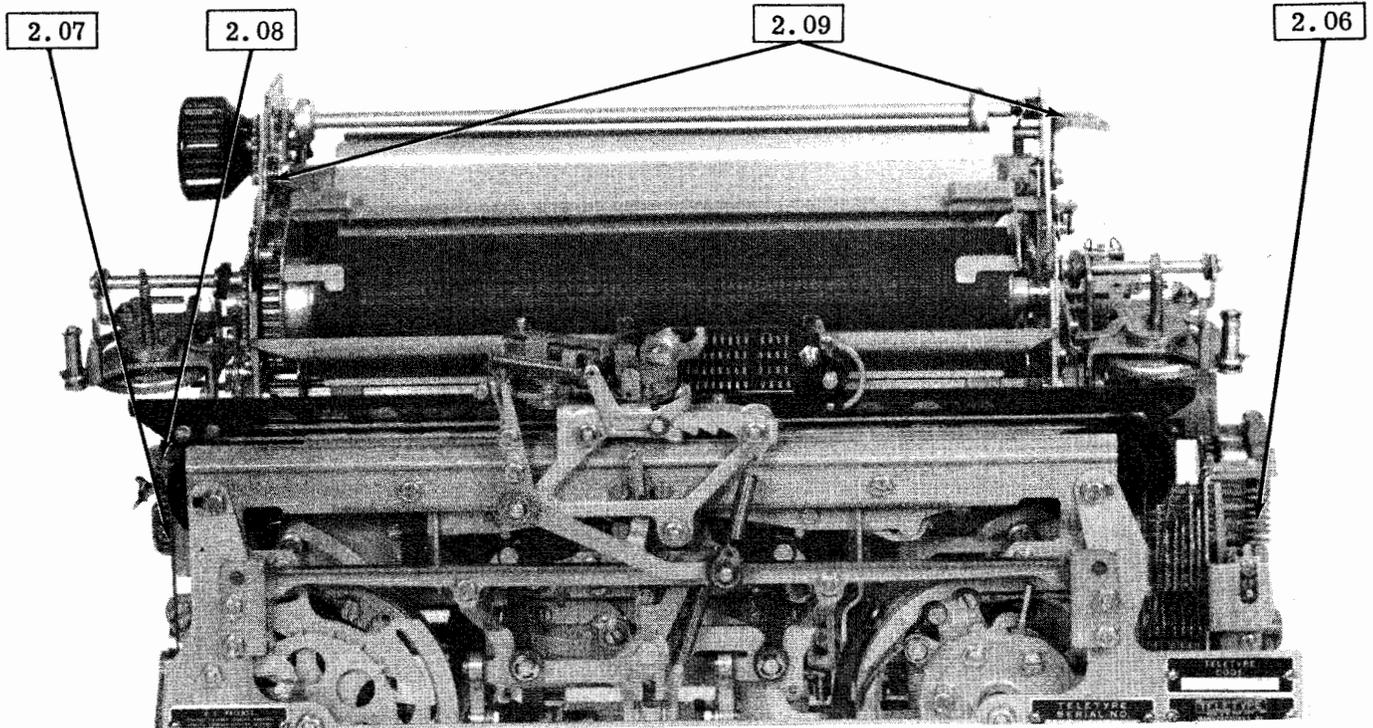
2.04 Typebox Carriage Mechanism



(Rear View)

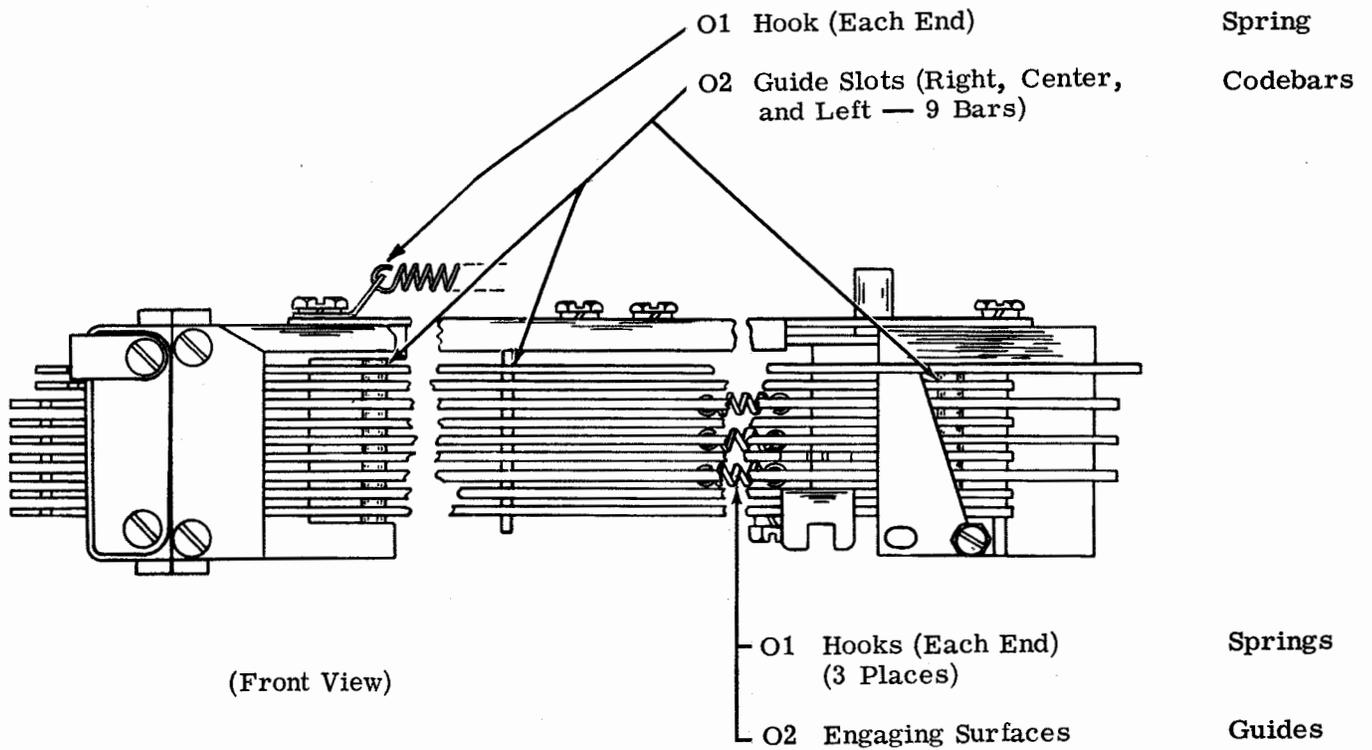
- | | | |
|-----|-------------------------|-----------------------------|
| O1 | Bearing Surface | Typebox Latch
Toggle |
| O2 | Bearings
(3 Rollers) | Typebox
Carriage Rollers |
| O1 | Hook (Each End) | Spring |
| SAT | Felt Wick | Spring |
| O1 | Bearing Surface | Typebox Latch |
| O2 | Bearing Surface | Typebox
Carriage Link |

2.05 Code and Print Areas

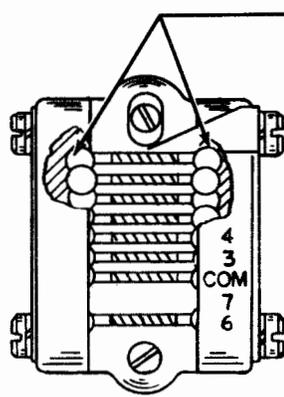


(Front View)

2.06 Codebar Mechanism



2.07 Codebar Detents

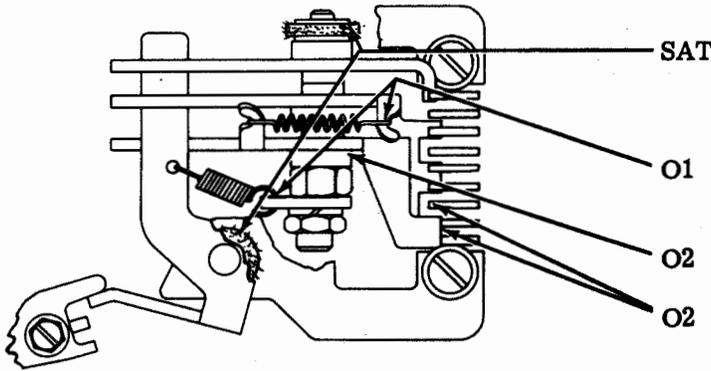


(Left Side View)

Bearing Balls

Codebar Detent

2.08 Print Suppression Mechanism



(Left Side View)

Felt Washers
(3 Washers)

Eccentric Post
and Blocking
Bail Blade

Hooks (Both Ends)
(2 Springs)

Springs

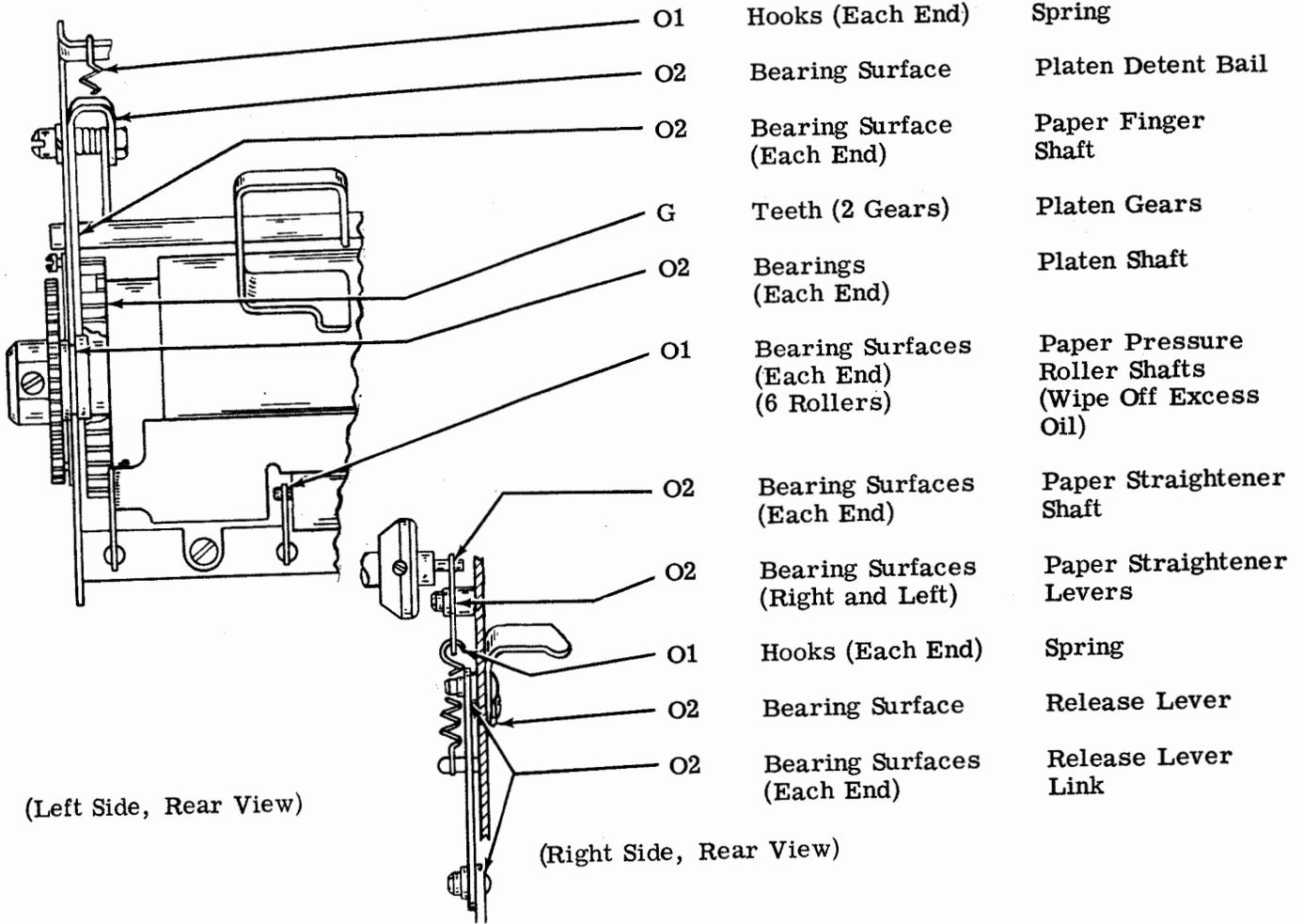
Bearing Surface

Eccentric Post

Engaging Surfaces
(4 Places)

Blocking
Levers

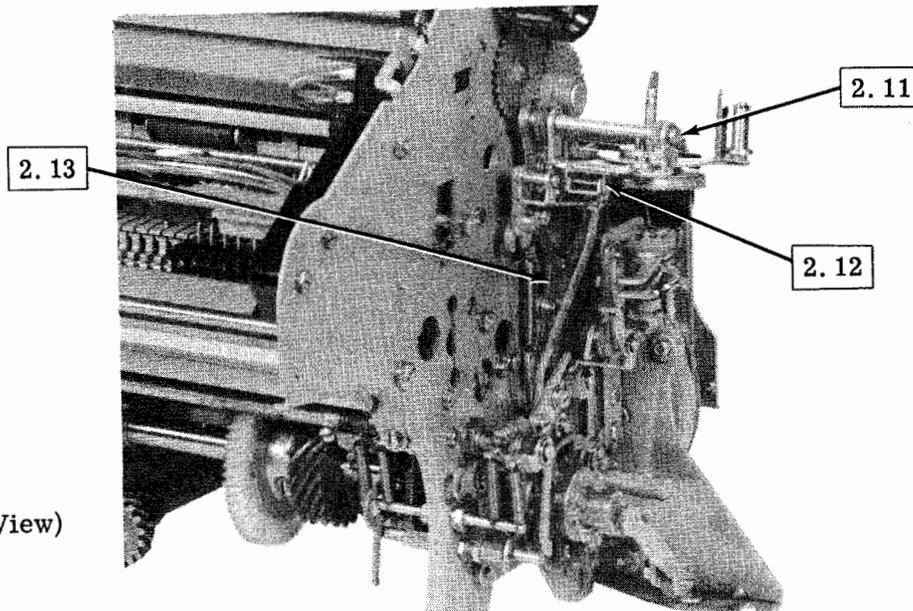
2.09 Paper Feed Mechanism (Friction Feed)



(Left Side, Rear View)

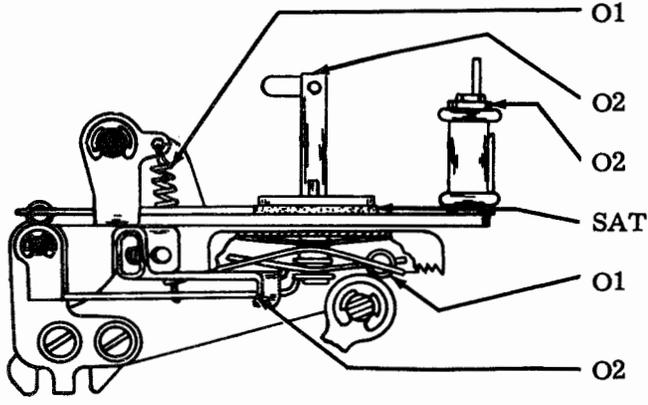
(Right Side, Rear View)

2.10 Ribbon Area



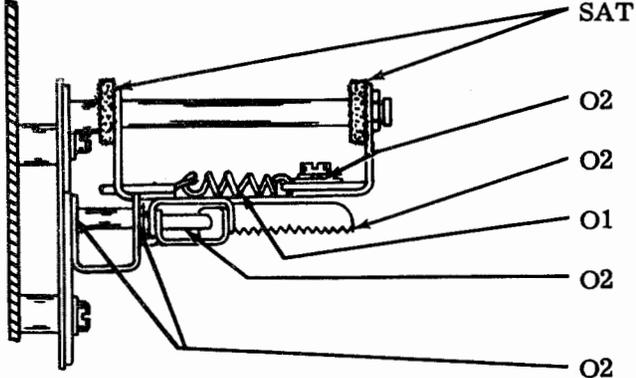
(Left Rear View)

2.11 Ribbon Feed Mechanism



(Left Side View)

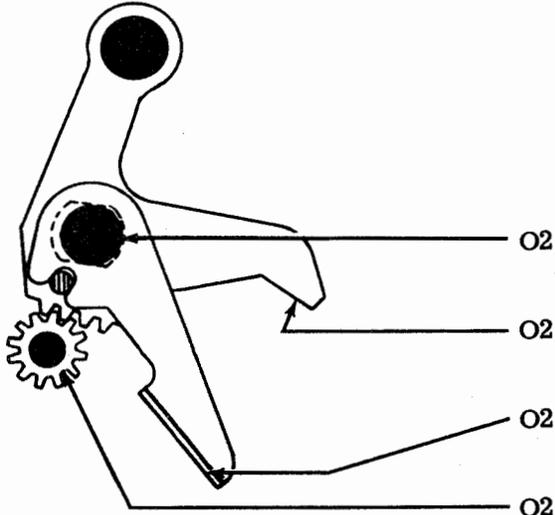
- | | | |
|-----|------------------|-----------------------------|
| O1 | Hooks (Each End) | Ribbon Feed Lever Spring |
| O2 | Bearing Surface | Ribbon Spool Toggle |
| O2 | Bearing Surface | Ribbon Roller Shaft |
| SAT | Felt Washer | Ribbon Spool Shaft |
| O1 | Hooks (Each End) | Ribbon Ratchet Wheel Spring |
| O2 | Engaging Surface | Ribbon Detent Lever |



(Rear View)

- | | | |
|-----|--------------------------|---------------------------|
| SAT | Felt Washers (2 Washers) | Ribbon Feed Lever Bail |
| O2 | Bearing Surface | Ribbon Reverse Lever |
| O2 | Teeth | Ribbon Ratchet Wheel |
| O1 | Hooks (Each End) | Spring |
| O2 | Engaging Surface | Ribbon Detent Lever Shaft |
| O2 | Bearing Surfaces | Ratchet Feed Lever Shaft |

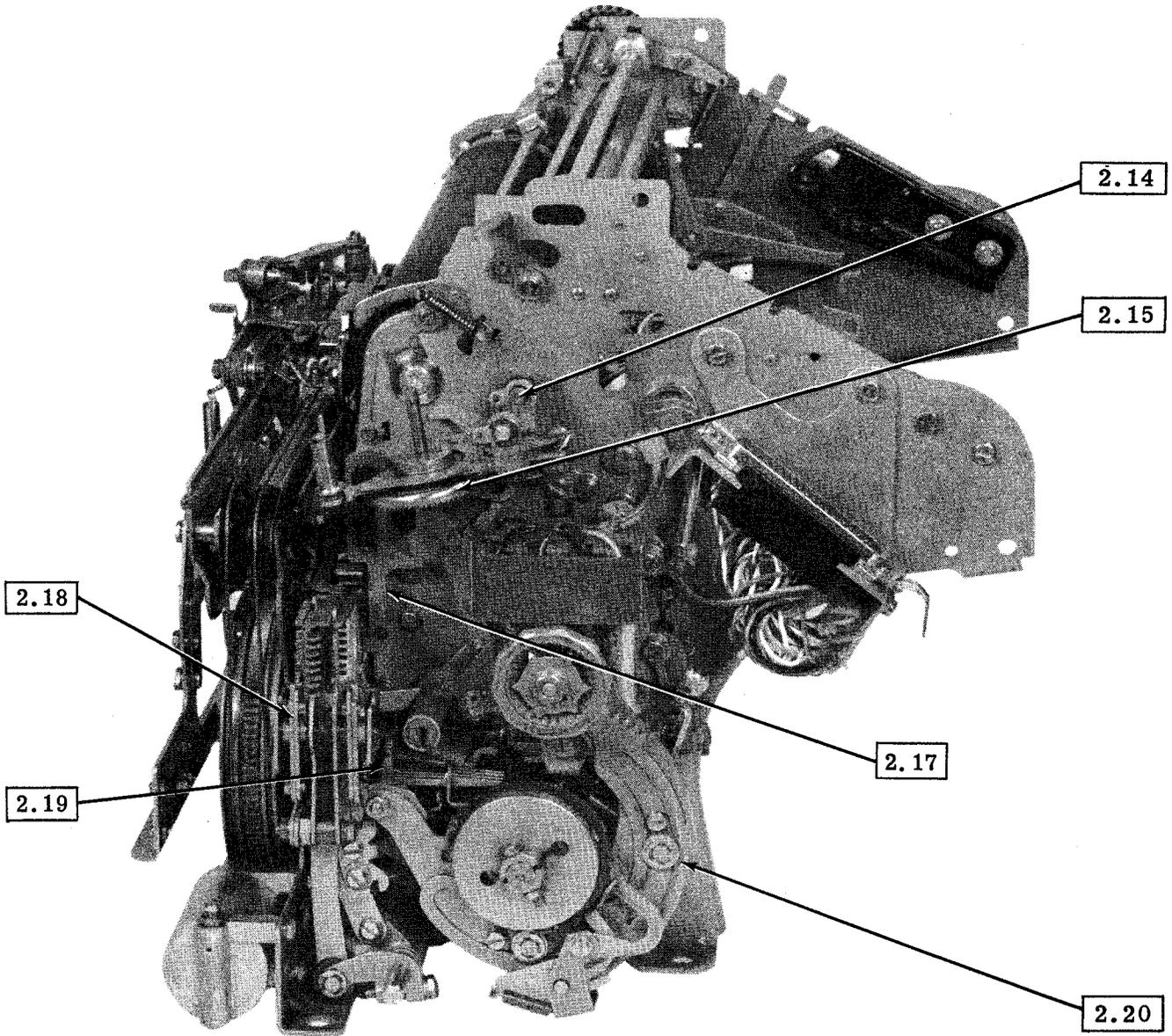
2.12 Ribbon Feed Mechanism (continued)



(Left Side View)

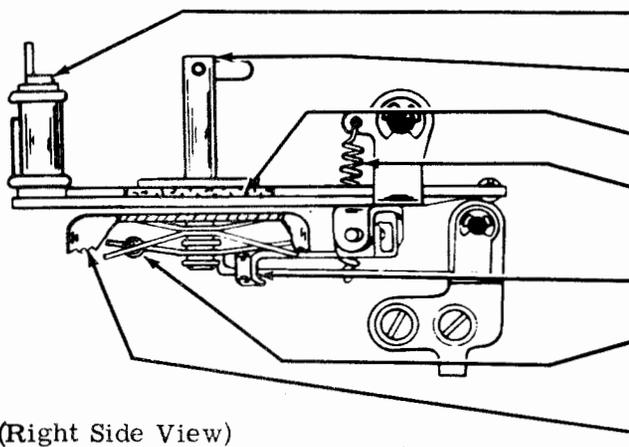
- | | | |
|----|------------------|--------------------------|
| O2 | Bearing Surface | Ribbon Reverse Lever |
| O2 | Engaging Surface | Ribbon Reverse Lever |
| O2 | Engaging Surface | Ribbon Reverse Lever |
| O2 | Teeth | Ribbon Reverse Spur Gear |

2.13 Positioning Area



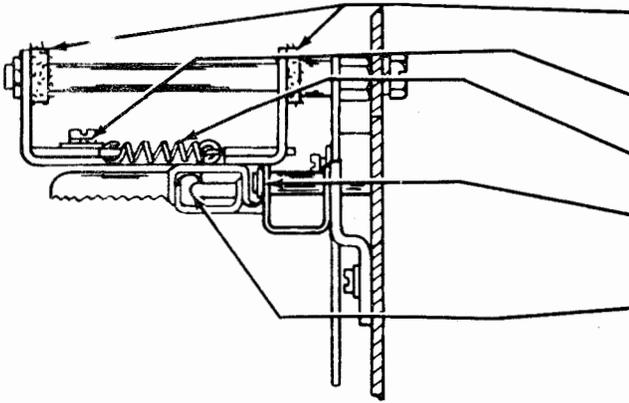
(Right Side View)

2.14 Ribbon Feed Mechanism (continued)



(Right Side View)

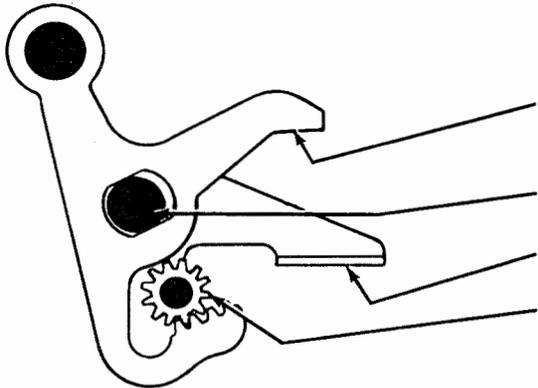
- O2 Bearing Surface Ribbon Roller Shaft
- O2 Bearing Surface Ribbon Spool Toggle
- SAT Felt Washer Ribbon Spool Shaft
- O1 Hooks (Each End) Ribbon Feed Lever Spring
- O2 Engaging Surface Ribbon Detent Lever
- O1 Hooks (Each End) Ribbon Ratchet Wheel Spring
- O2 Teeth Ribbon Ratchet Wheel



(Rear View)

- SAT Felt Washers (2 Washers) Ribbon Feed Lever Bail
- O2 Bearing Surface Ribbon Reverse Lever
- O1 Hooks (Each End) Spring
- O2 Bearing Surfaces Ratchet Feed Lever Shaft
- O2 Bearing Surface (2 Places) Ribbon Detent Lever Shaft

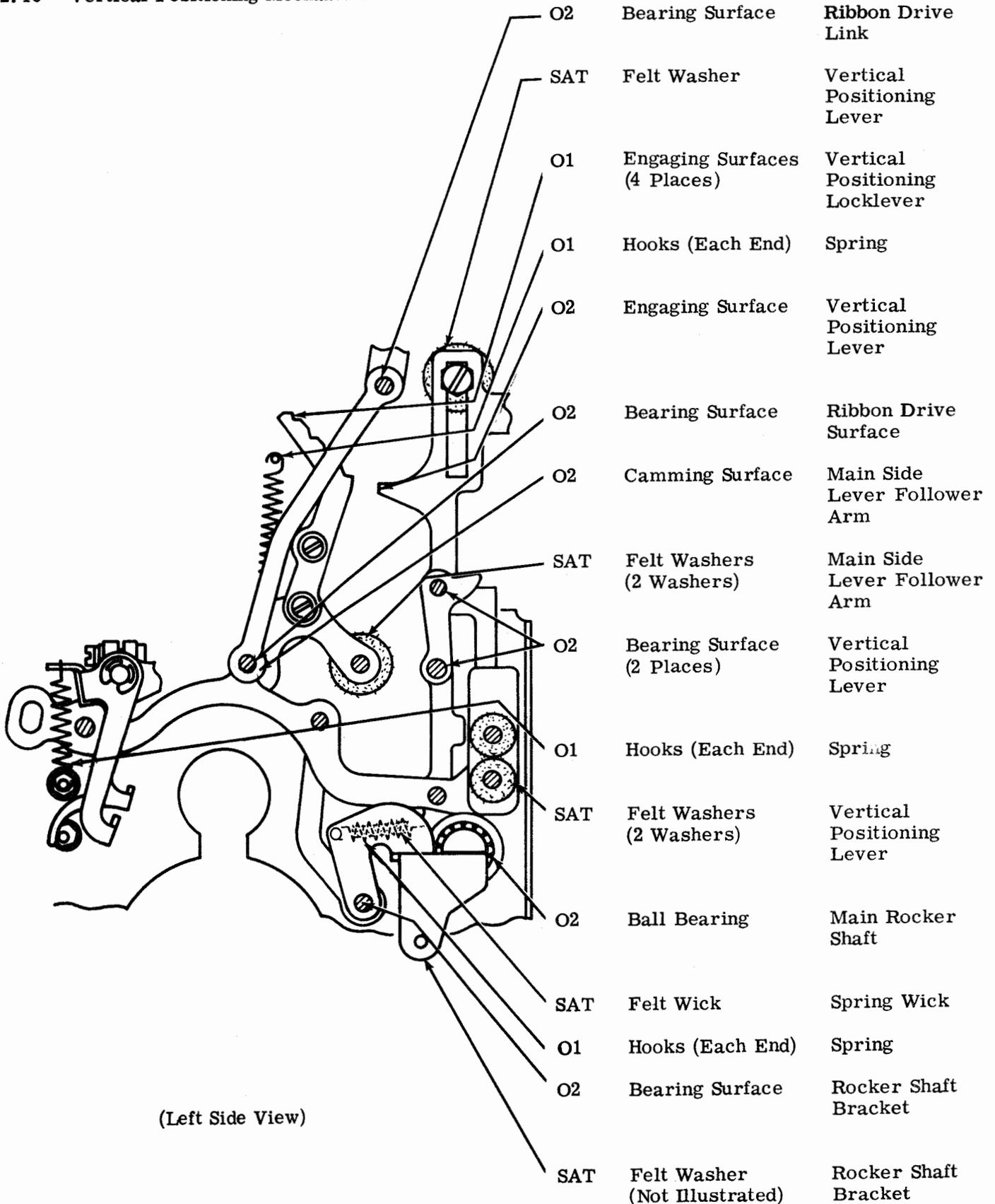
.15 Ribbon Feed Mechanism (continued)



(Left Side View)

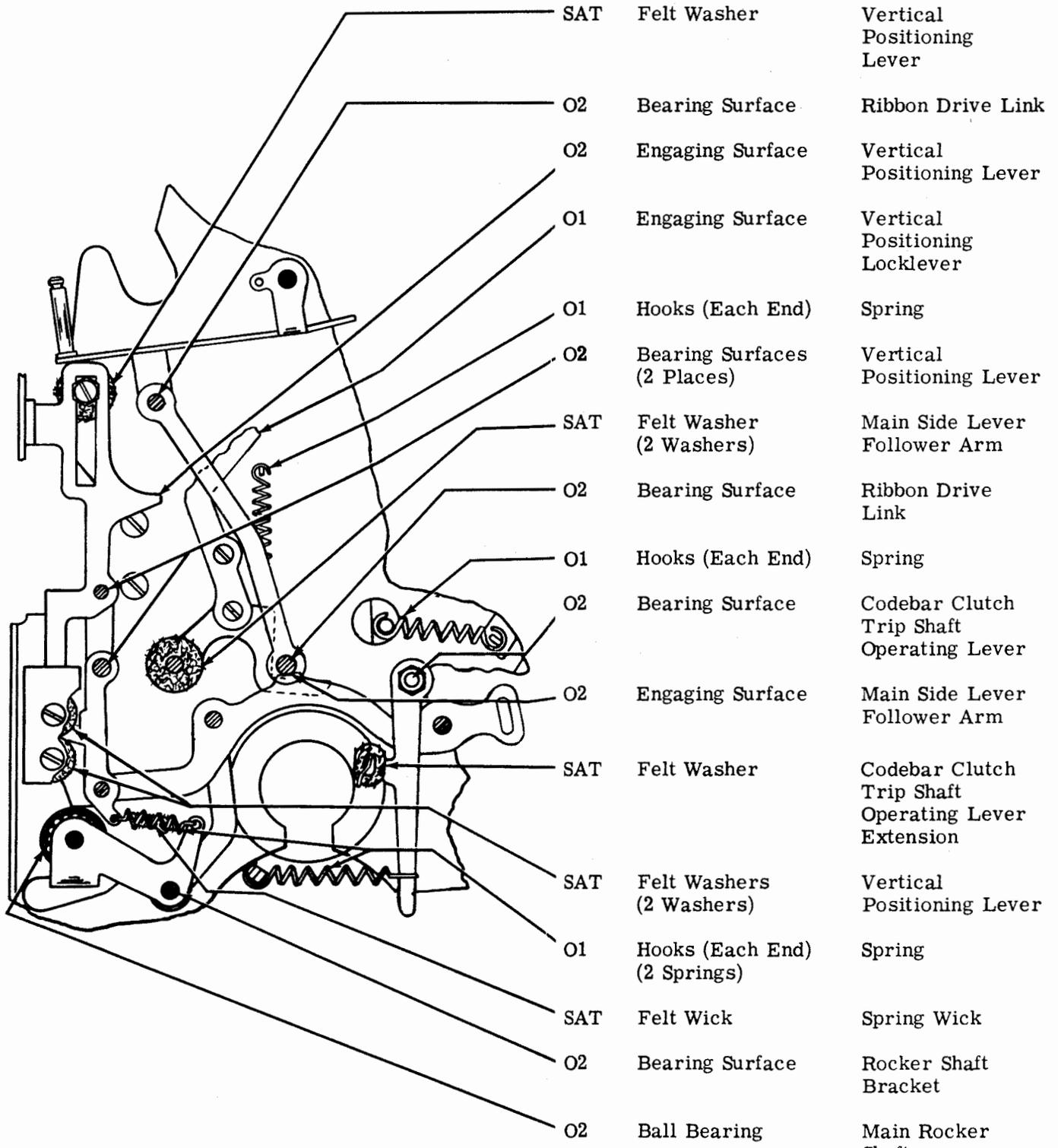
- O2 Engaging Surface Ribbon Reverse Lever
- O2 Bearing Surface Ribbon Reverse Lever
- O2 Engaging Surface Ribbon Reverse Lever
- G Teeth Ribbon Reverse Spur Gear

2.16 Vertical Positioning Mechanism



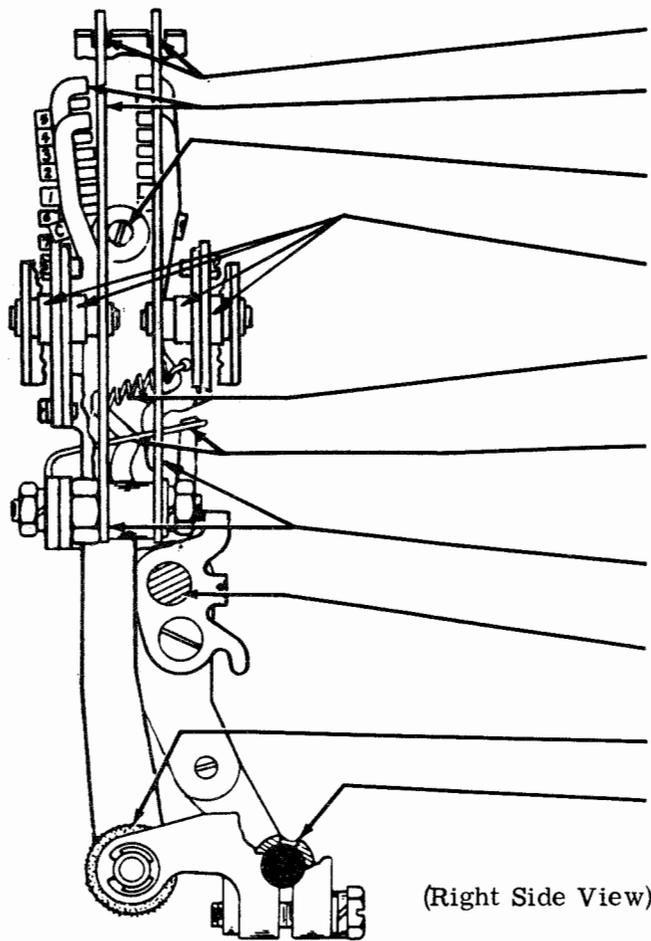
(Left Side View)

2.17 Vertical Positioning Mechanism (continued)



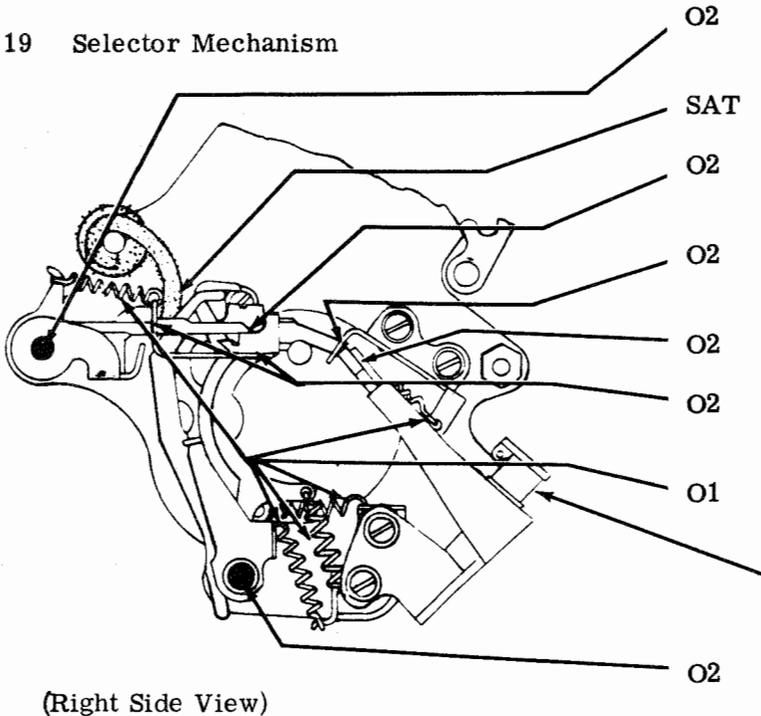
(Right Side View)

2.18 Codebar Mechanism (continued)



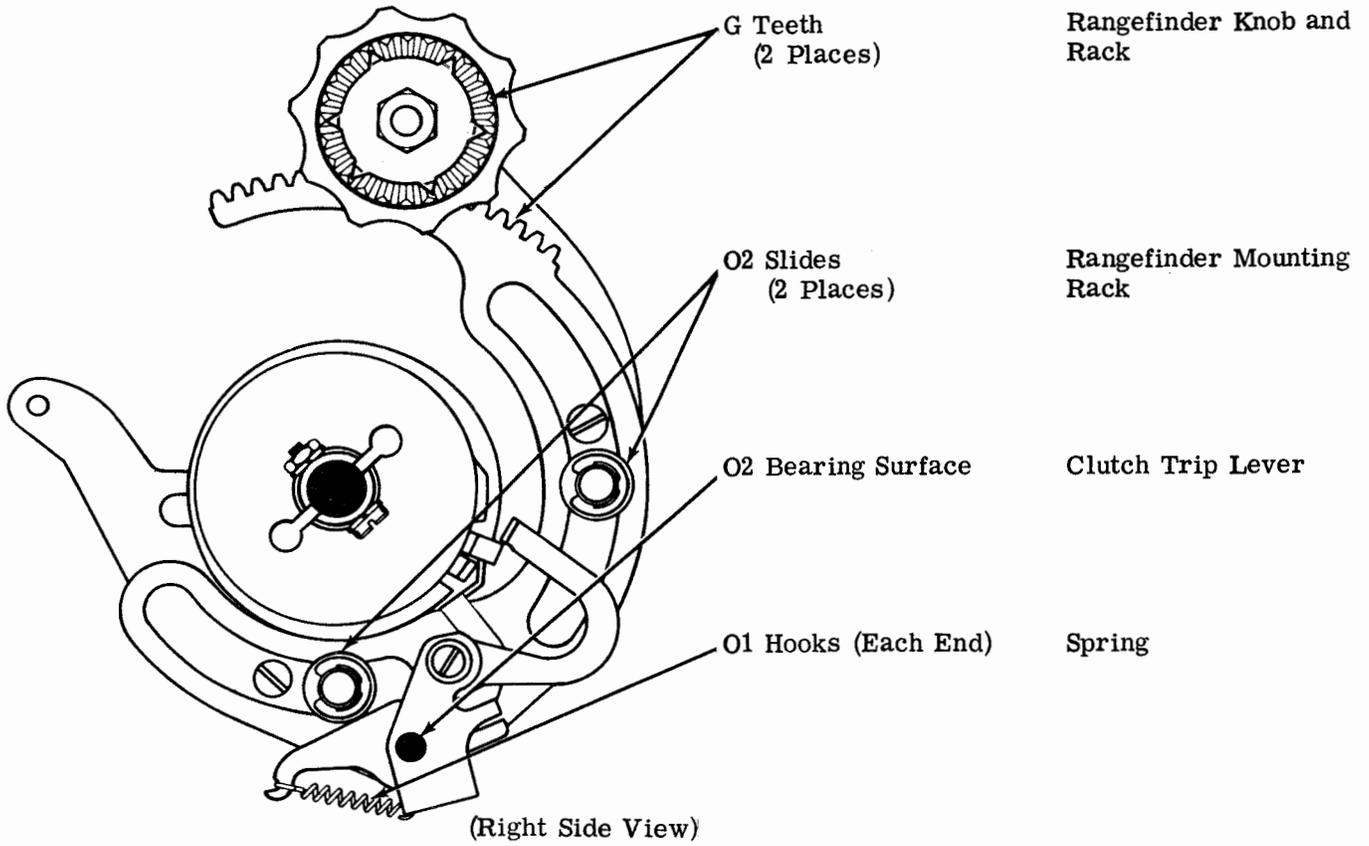
- | | | |
|-----|-------------------------------|---------------------------------------|
| O2 | Guide Slots | Shift Levers |
| O2 | Engaging Surface | Shift and Transfer Levers |
| O2 | Bearing Guide Slots (8 Slots) | Transfer Lever Guide Bearing |
| O2 | Roller Bearings- (4 Rollers) | Shift Lever Link Rollers |
| O1 | Hooks (Each End) (7 Springs) | Springs |
| O2 | Guide Slots (7 Slots) | Intermediate Arms and Transfer Levers |
| O2 | Bearing Surfaces (2 Places) | Shift Levers |
| O2 | Bearing Guide Slots (7 Slots) | Intermediate Arm Guide Bearing |
| SAT | Felt Washer | Shift Lever Link |
| O3 | Oil Hole | Shift Lever Drive Arm Shaft |

2.19 Selector Mechanism

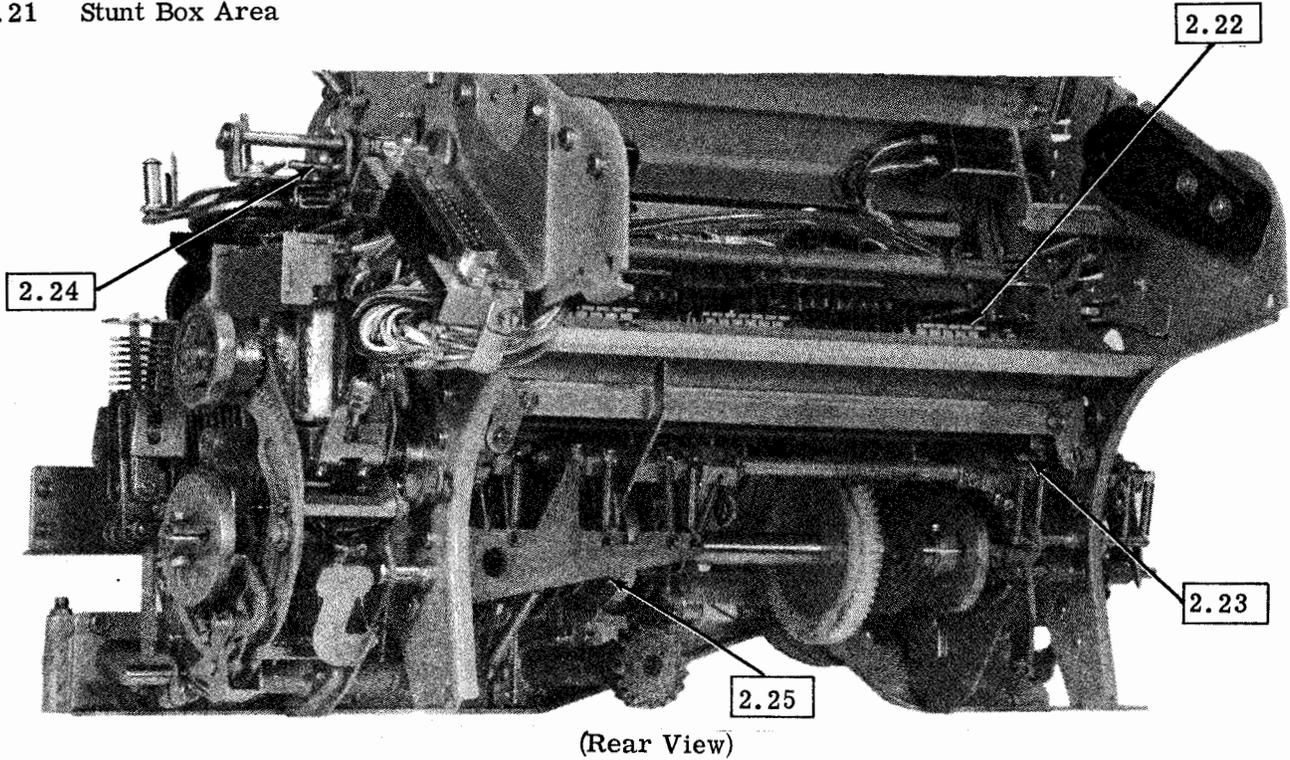


- | | | |
|-----|-------------------------------|------------------------------|
| O2 | Bearing Guide Slots (7 Slots) | Pushlever Guide Bearing |
| SAT | Felt Wick | Selector Wick |
| O2 | Engaging Surfaces (7 Levers) | Pushlevers |
| O2 | Guide Slots | Marking Locklever |
| O2 | Wick | Lubricator Wick |
| O2 | Guide Slots | Selector and Pushlevers |
| O1 | Hooks (Each End) (14 Springs) | Springs |
| | Fill Cup (Avoid Air Lock) | Lubricator Reservoir |
| O2 | Bearing Guide Slots (9 Slots) | Selector Lever Guide Bearing |

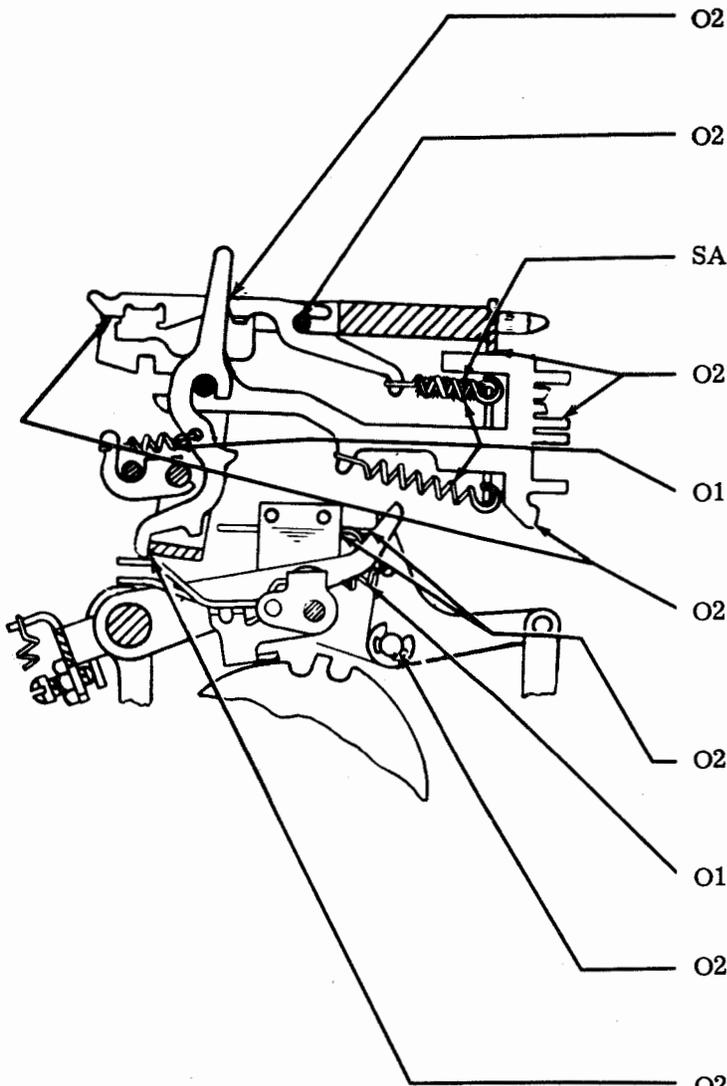
2.20 Selector Mechanism (continued)



2.21 Stunt Box Area



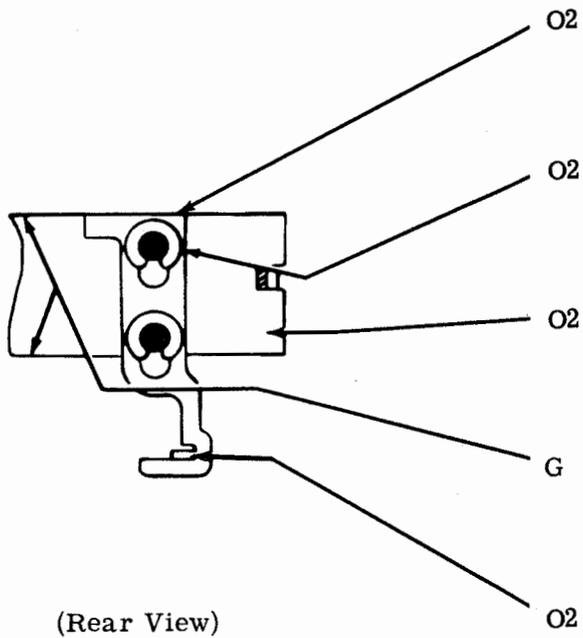
2.22 Stunt Box Mechanism



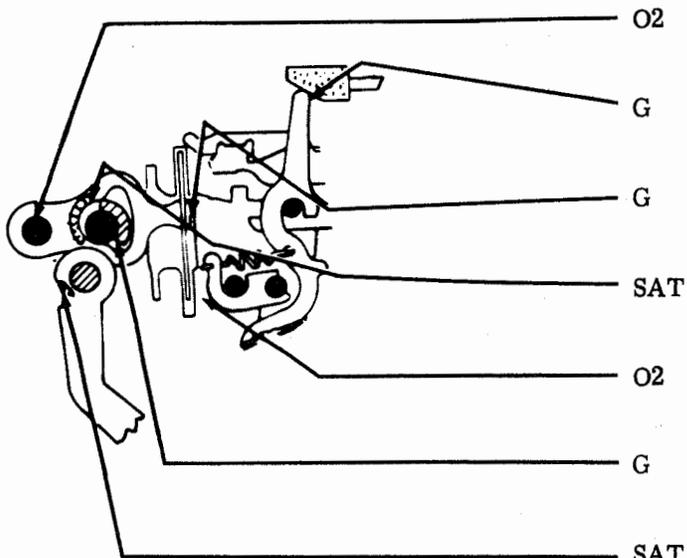
O2	Guide Slots (11 Levers)	Function Levers
O2	Guide Slots (11 Pawls)	Function Pawls
SAT	Each Felt Wick	Function Pawl Springs
O2	Guide Slots (11 Levers)	Function Bars
O1	Hooks (Each End) (33 Springs)	Spring
O2	Engaging Surfaces (Front and Rear) (11 Bars)	Function Bars
O2	Guide and Engaging Surfaces	Line Feed Slide Arm
O1	Hooks (Each End)	Spring
O2	Bearing Surface	Keyboard Lock- lever
O2	Engaging Surface (11 Levers)	Function Levers

(Left Side View)

2.23 Stripper Blade Mechanism

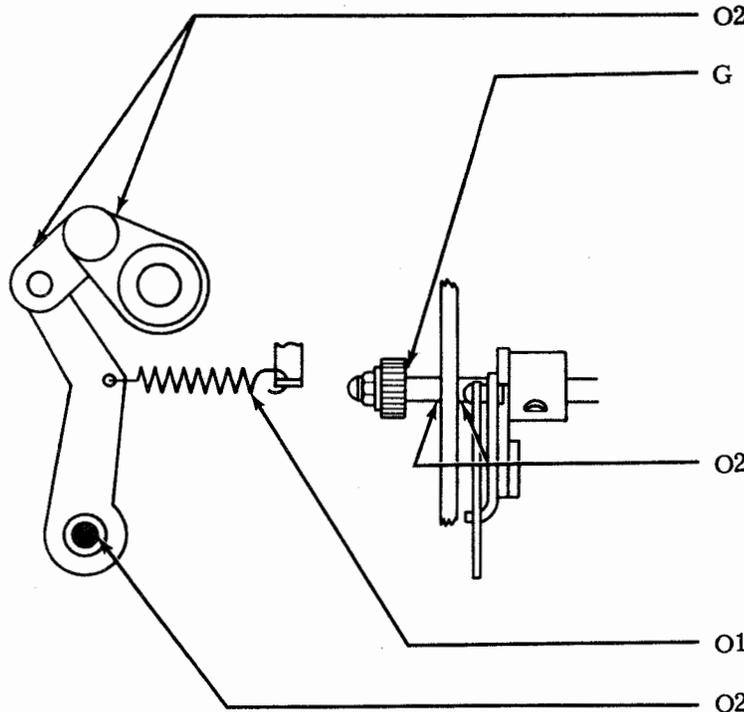


- O2 Engaging Surface Line Feed Stripper Slide
- O2 Guide Surfaces (2 Places) Stripper Slide
- O2 Guide Surfaces (Each End) Stripper Blade
- G Engaging Surfaces (2 Places) Stripper Blade
- O2 Engaging Surface Stripper Bail



- O2 Bearing Surfaces (2 Bearings) Cam Arms
- G Engaging Surfaces (Each Arm) Contact Arm
- G Engaging Surfaces (2 Arms) Cam Arms
- SAT Felt Washers (4 Washers) Driving Cam
- O2 Guide Slots (Each End) Stripper Blade
- G Camming Surfaces (2 Cams) Driving Cam
- SAT Felt Washer Stripper Blade Driving Arm

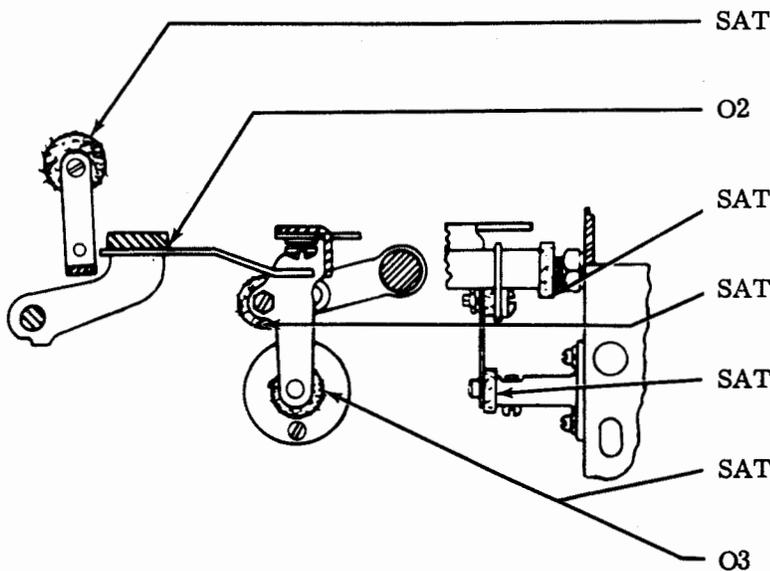
2.24 Ribbon Reverse Mechanism



- O2 Bearing Surface Detent Link
- G Teeth Ribbon Reverse Spur Gear
- O2 Bearing Surface (Right and Left) Ribbon Reverse Shaft
- O1 Hooks (Each End) Spring
- O2 Bearing Surface Ribbon Reverse Detent Lever

(Right Rear View)

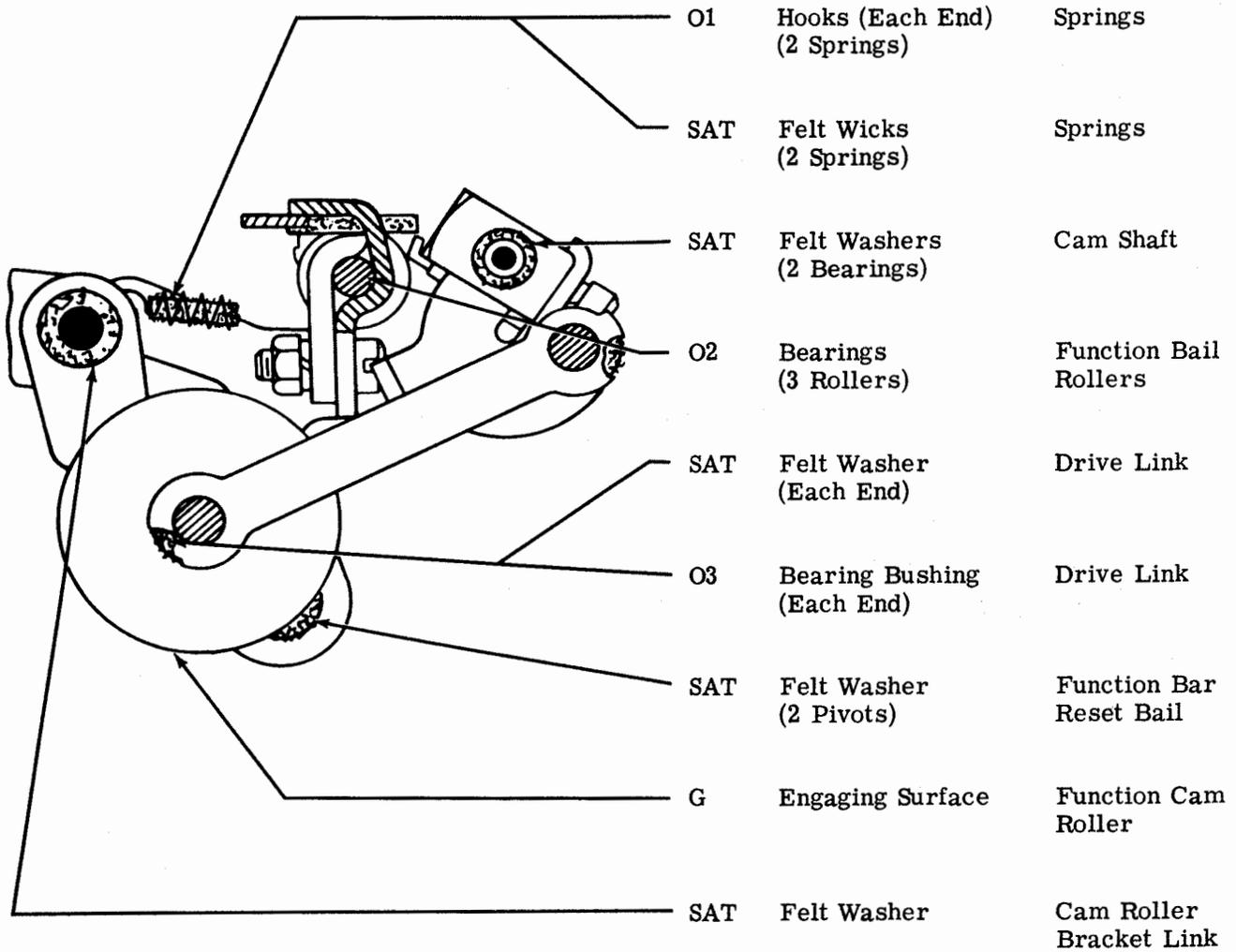
2.25 Function Rocker Shaft Mechanism



- SAT Felt Washer Space Suppression Bail
- O2 Guide Surface Carriage Return Slide Arm
- SAT Felt Washers (2 Washers) Function Rocker Shaft
- SAT Felt Washers (2 Washers) Function Bail Toggle Link
- SAT Felt Washers (2 Washers) Function Bail
- SAT Felt Washers Function Cam Roller
- O3 Roller Bearing (Opposite Side) Function Cam Roller

(Left Rear View)

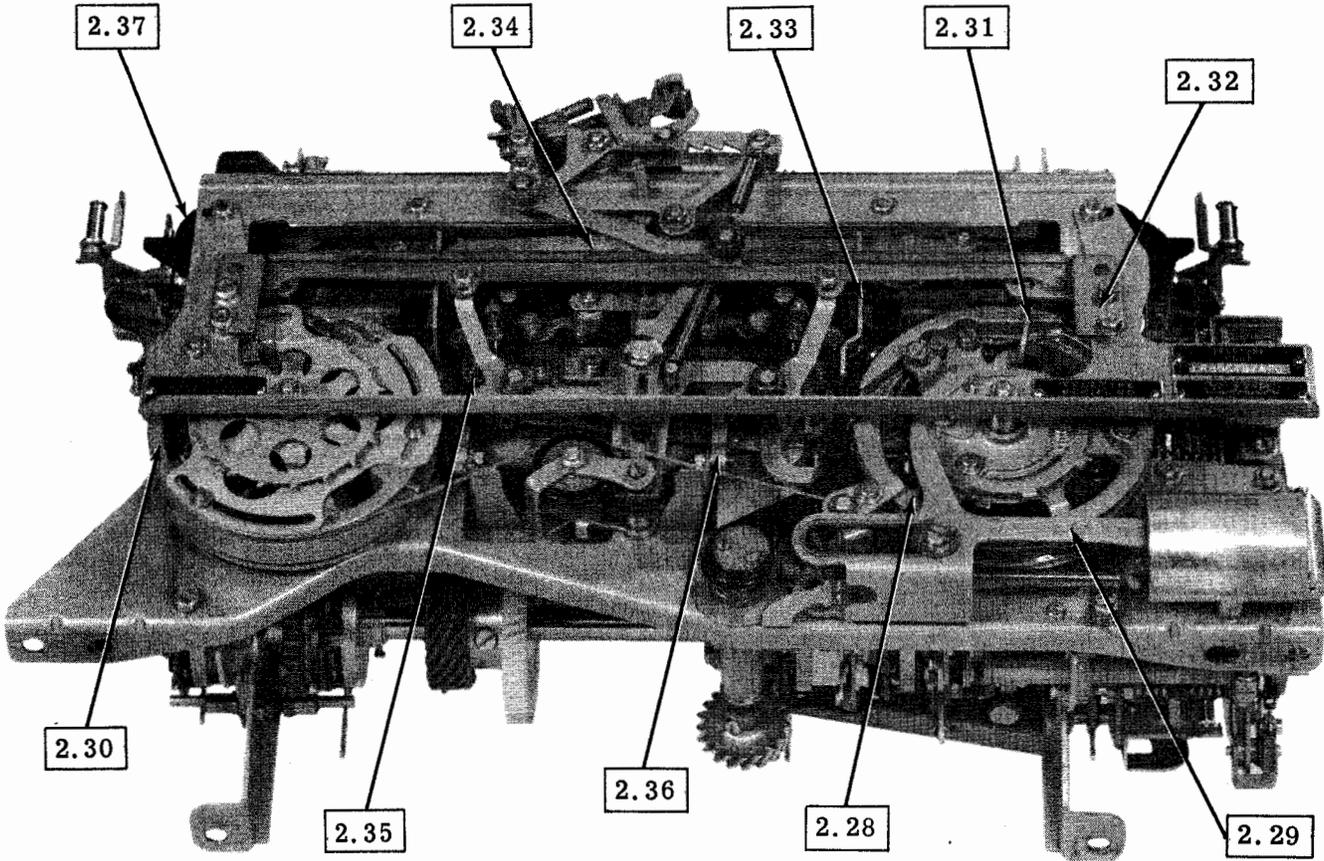
2.26 Function Reset Bail Mechanism



(Left Side View)

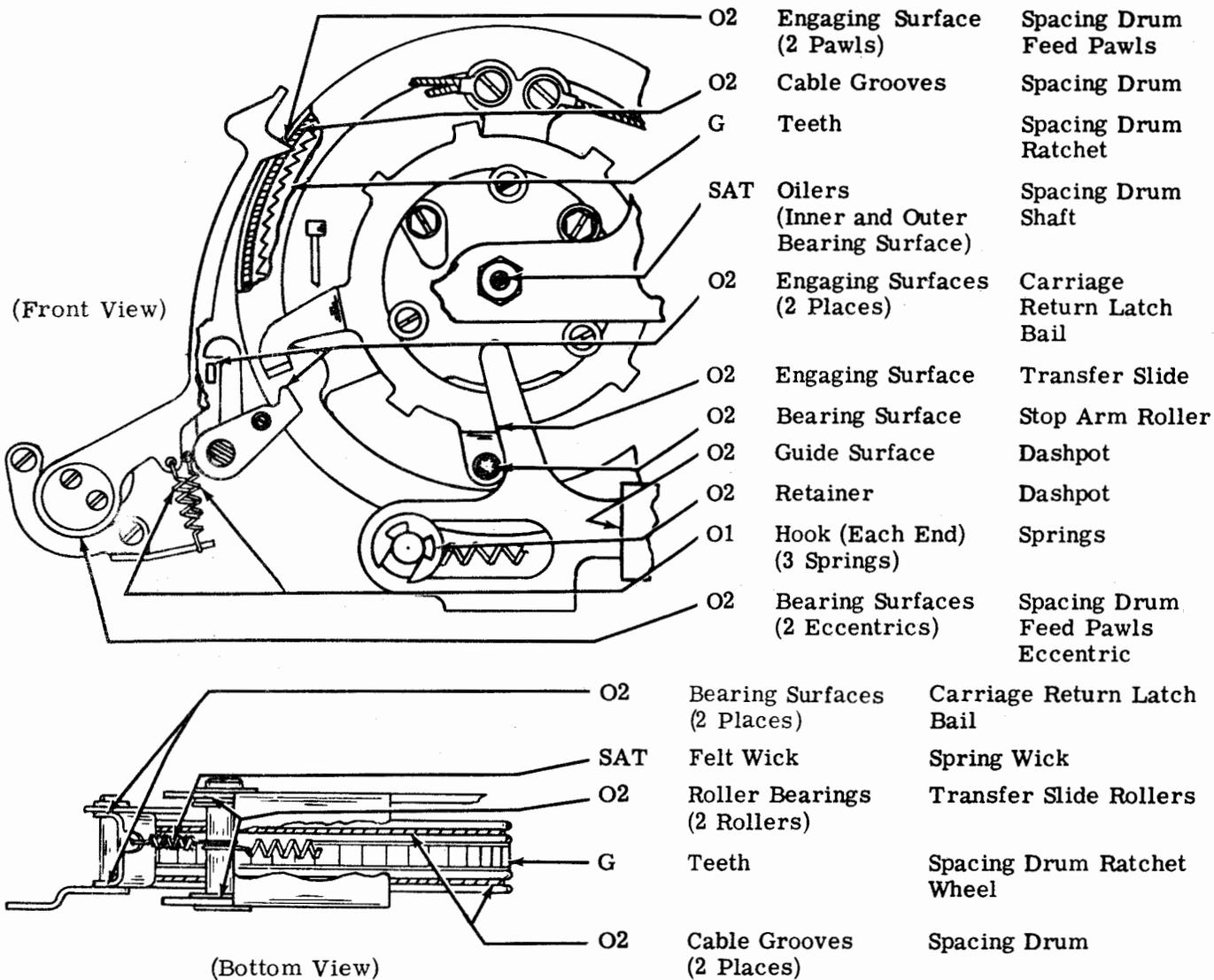
Note: See 2.38 for photograph of the location of this mechanism.

2.27 Spacing and Drive Area

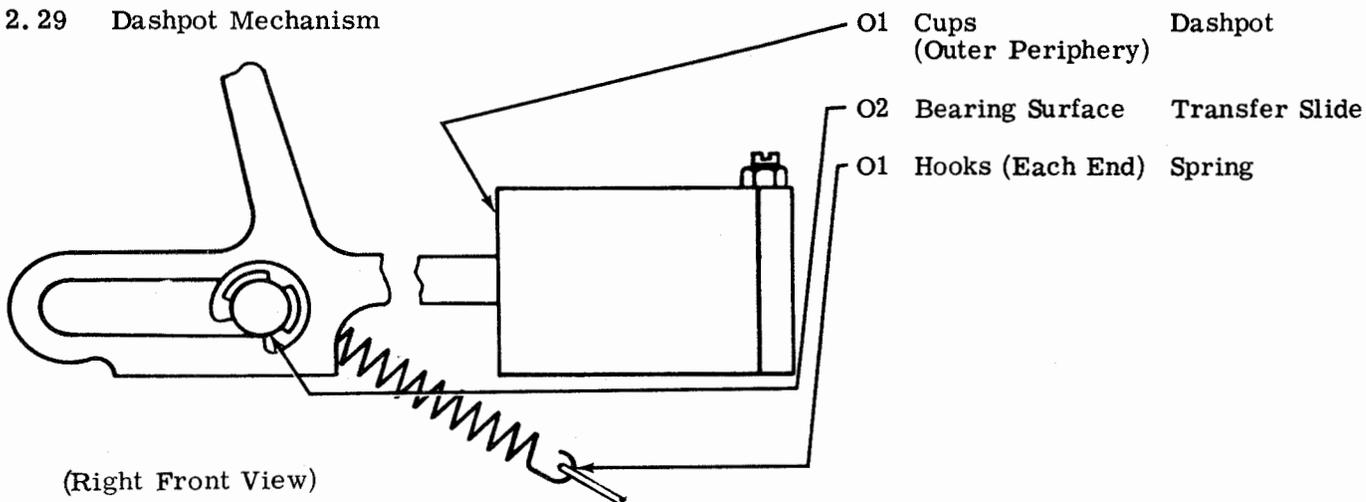


(Bottom Front View)

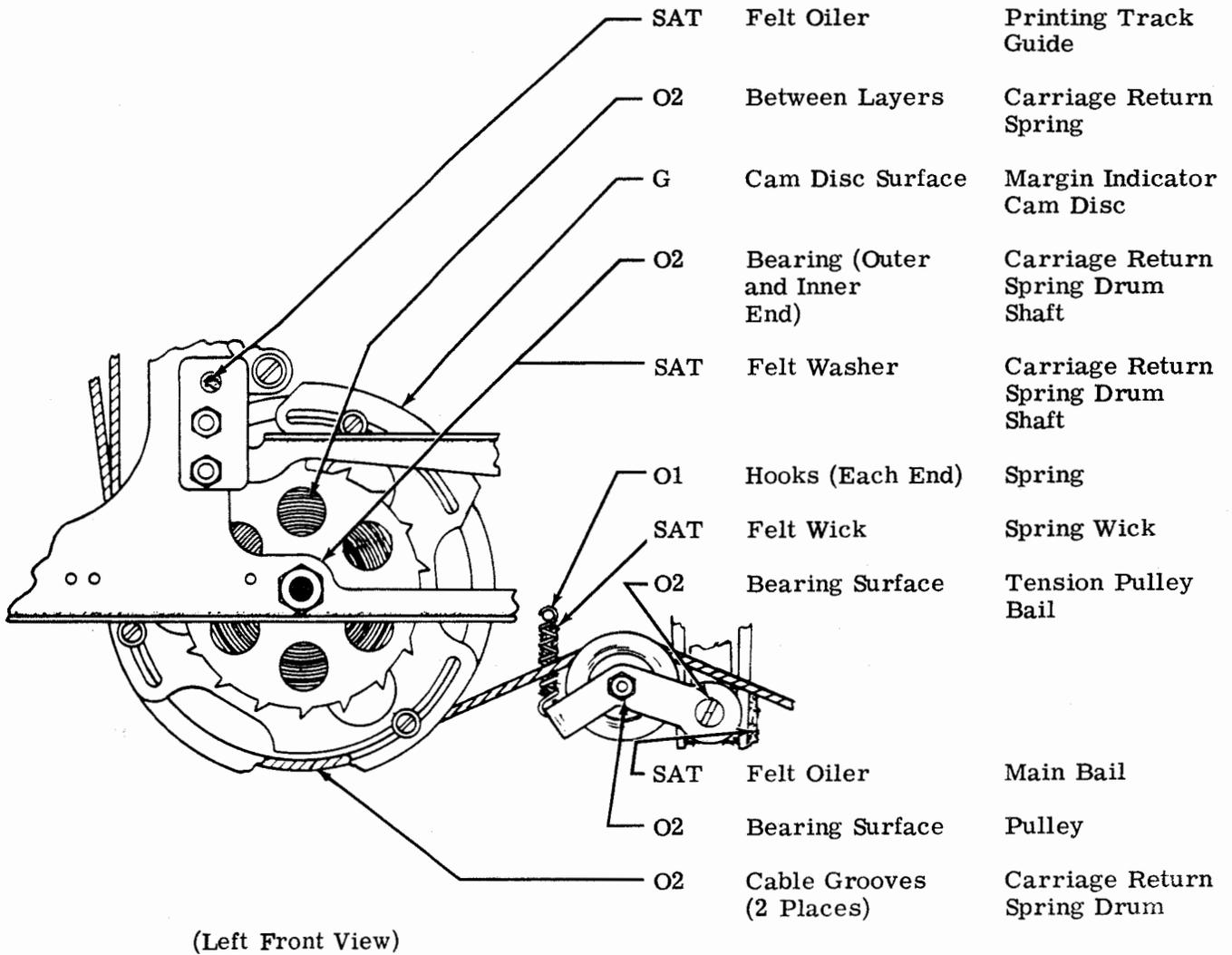
2.28 Spacing Drum Mechanism



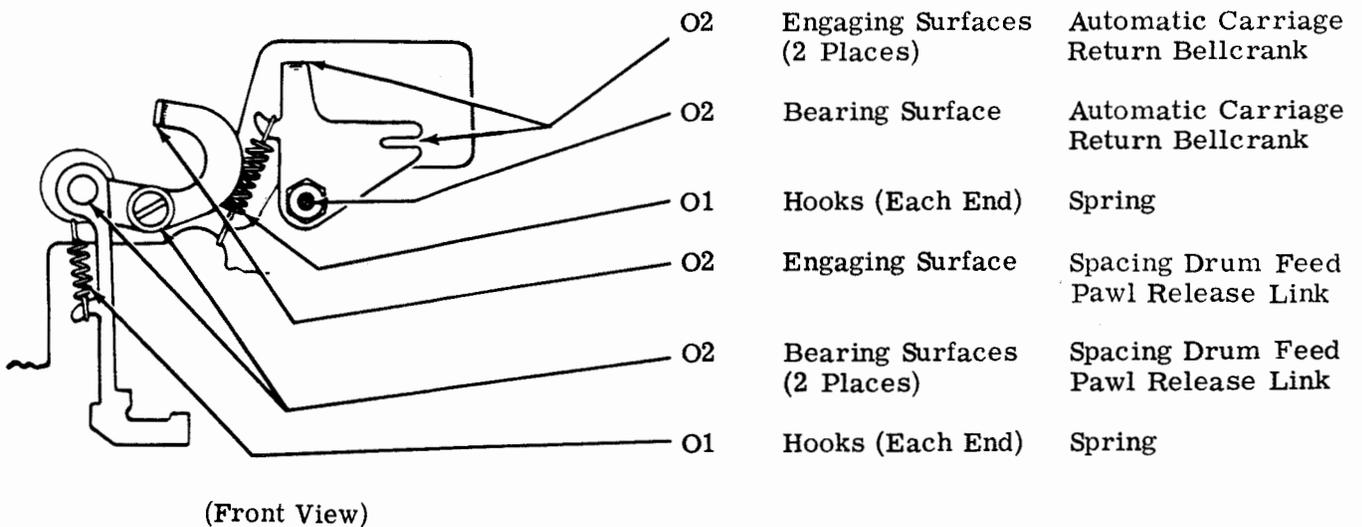
2.29 Dashpot Mechanism



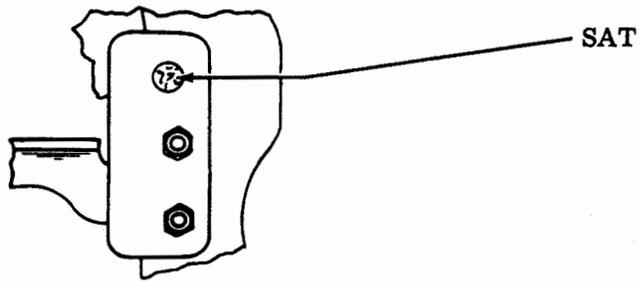
2.30 Carriage Return Mechanism



2.31 Spacing Drum Feed Mechanism



2.32 Track Guide Mechanism

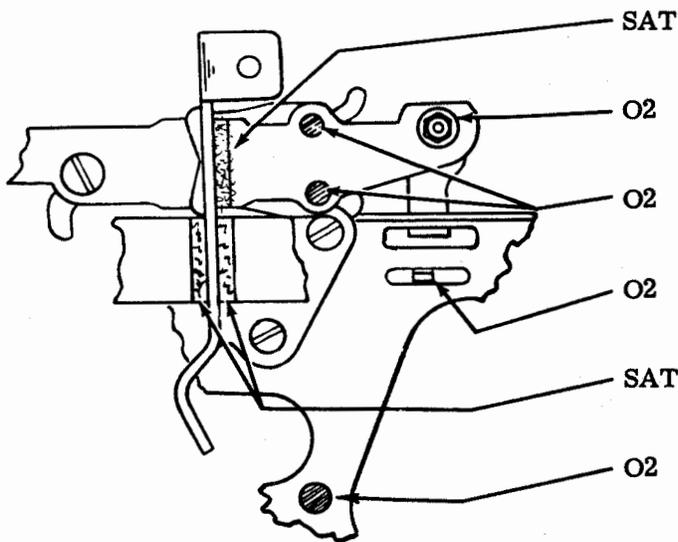


(Right Front View)

Felt Oiler

Printing Track Guide

2.33 Horizontal Positioning Mechanism



(Right Front View)

Felt Washer

Horizontal Reversing Slide

Engaging Surface

Horizontal Reversing Slide Shift Lever

Detent (2 Detents)

Detent Bail

Engaging Surface

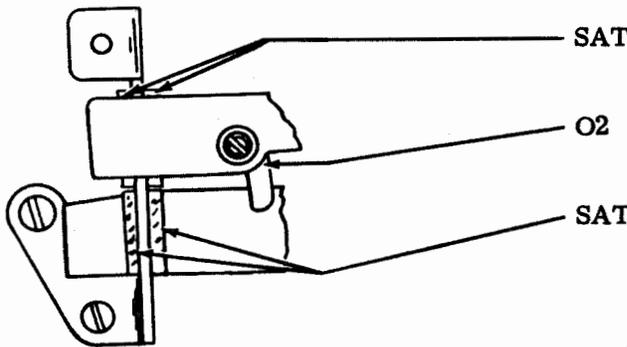
Horizontal Reversing Slide Shift Lever

Felt Washers (2 Washers)

Oscillating Rail Shift Slide

Bearing Surface

Horizontal Reversing Slide Shift Lever



(Left Front View)

Felt Washers (2 Washers)

Horizontal Reversing Slide

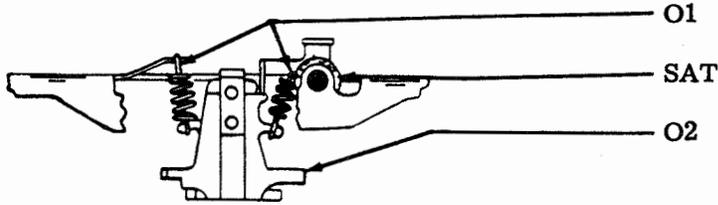
Engaging Surfaces (2 Places)

Horizontal Reversing Slide Bracket

Felt Washers (2 Washers)

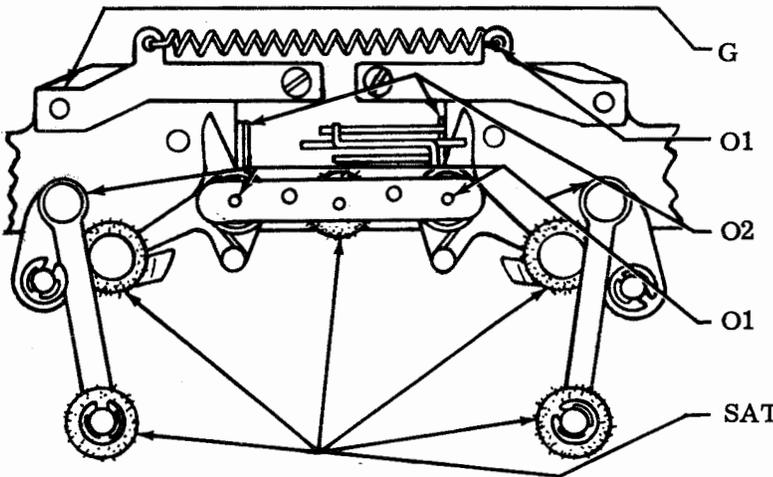
Oscillating Rail Shift Slide

2.34 Horizontal Positioning Mechanism (continued)



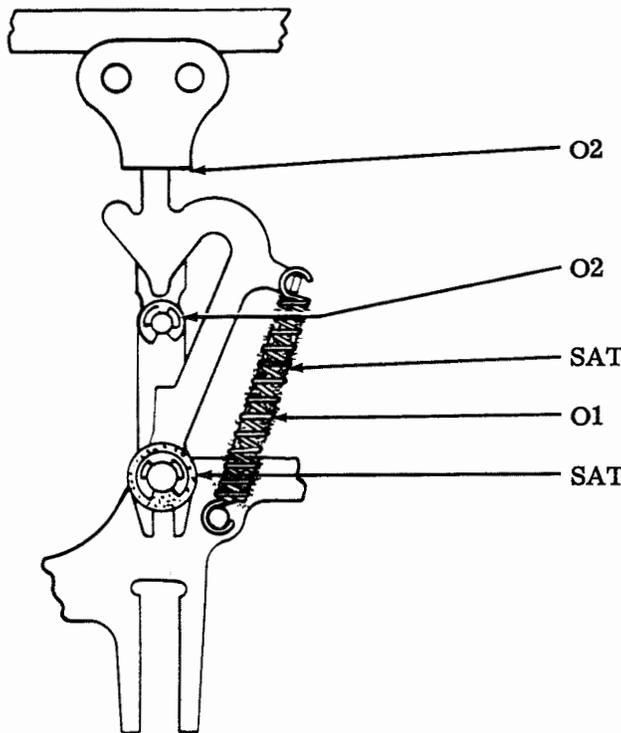
(Top View)

- | | | |
|-----|------------------------------|-------------------------------|
| O1 | Hooks (Each End) | Spring |
| SAT | Felt Washer | Codebar Bellcrank |
| O2 | Engaging Surfaces (3 Slides) | Horizontal Motion Stop Slides |



(Front View)

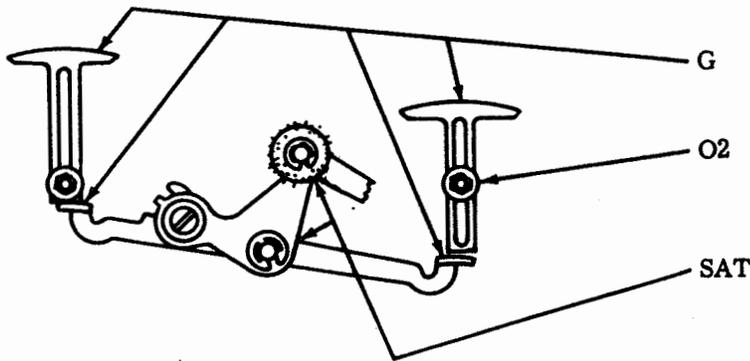
- | | | |
|-----|------------------------------|-----------------------------|
| G | Engaging Surfaces (2 Slides) | Shift Shock Absorber Slides |
| O1 | Hooks (Each End) | Shock Absorber Spring |
| O2 | Engaging Surfaces (2 Slides) | Decelerating Slides |
| O1 | Bearing Surfaces (4 Places) | Shift Slide Driver Links |
| SAT | Felt Washers (5 Washers) | Shift Slide Drive Links |



(Front View)

- | | | |
|-----|------------------|----------------------------------|
| O2 | Guiding Surface | Horizontal Positioning Locklever |
| O2 | Bearing Surface | Horizontal Locklever Arm Roller |
| SAT | Felt Wick | Spring Wick |
| O1 | Hooks (Each End) | Spring |
| SAT | Felt Washer | Horizontal Positioning Locklever |

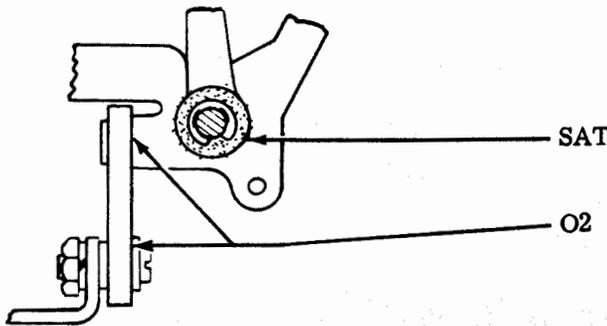
2.35 Horizontal Positioning Drive Mechanism



(Front View)

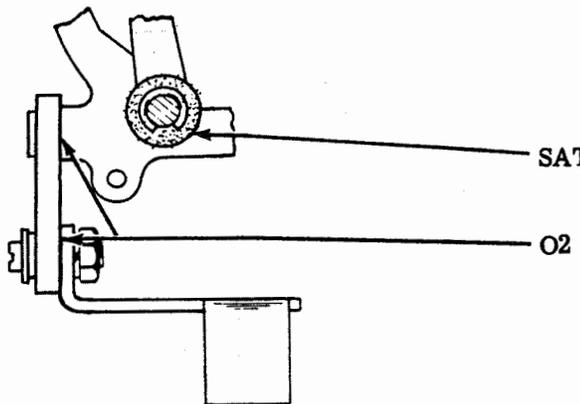
- | | | |
|-----|-----------------------------------------|-------------------------------------------|
| G | Engaging Surfaces
(Tops and Bottoms) | Shift Breaker
Slides |
| O2 | Guiding Surfaces
(2 Slides) | Shift Breaker
Slides and Stop
Posts |
| SAT | Felt Washers
(2 Washers) | Shift Rocker
Bar |

2.36 Shift Mechanism



(Right Side View)

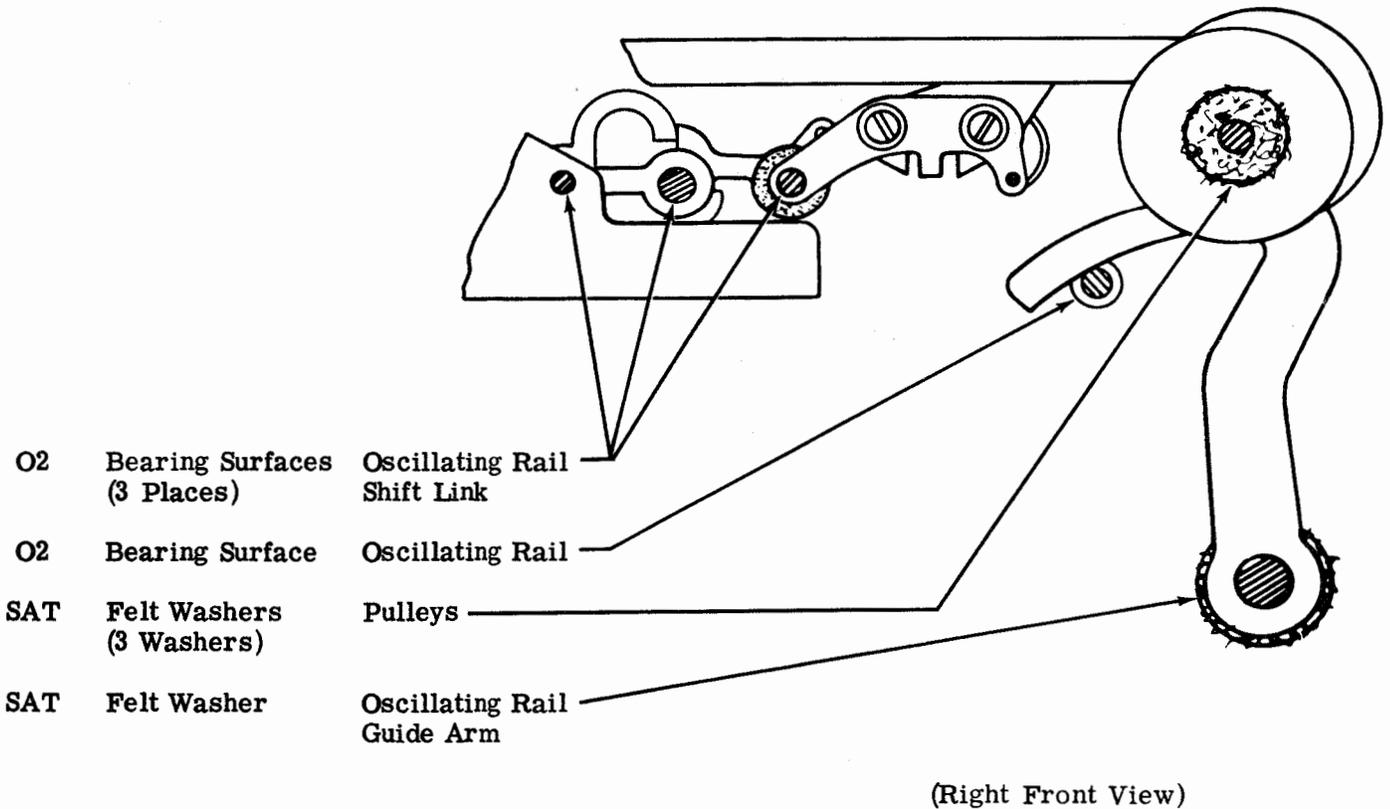
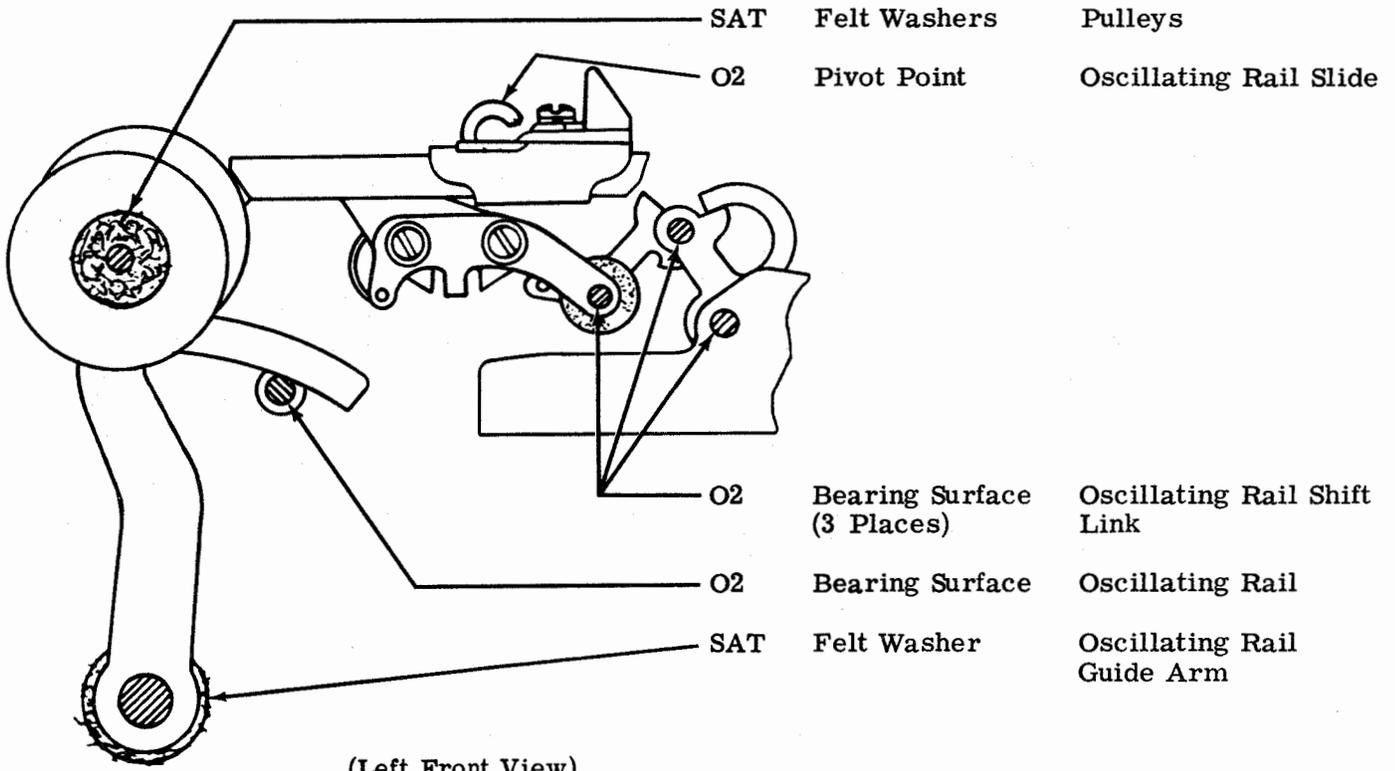
- | | | |
|-----|--------------------------------|---------------------------|
| SAT | Felt Washer | Shift Slide
Drive Link |
| O2 | Bearing Surfaces
(2 Places) | Main Bail Link |



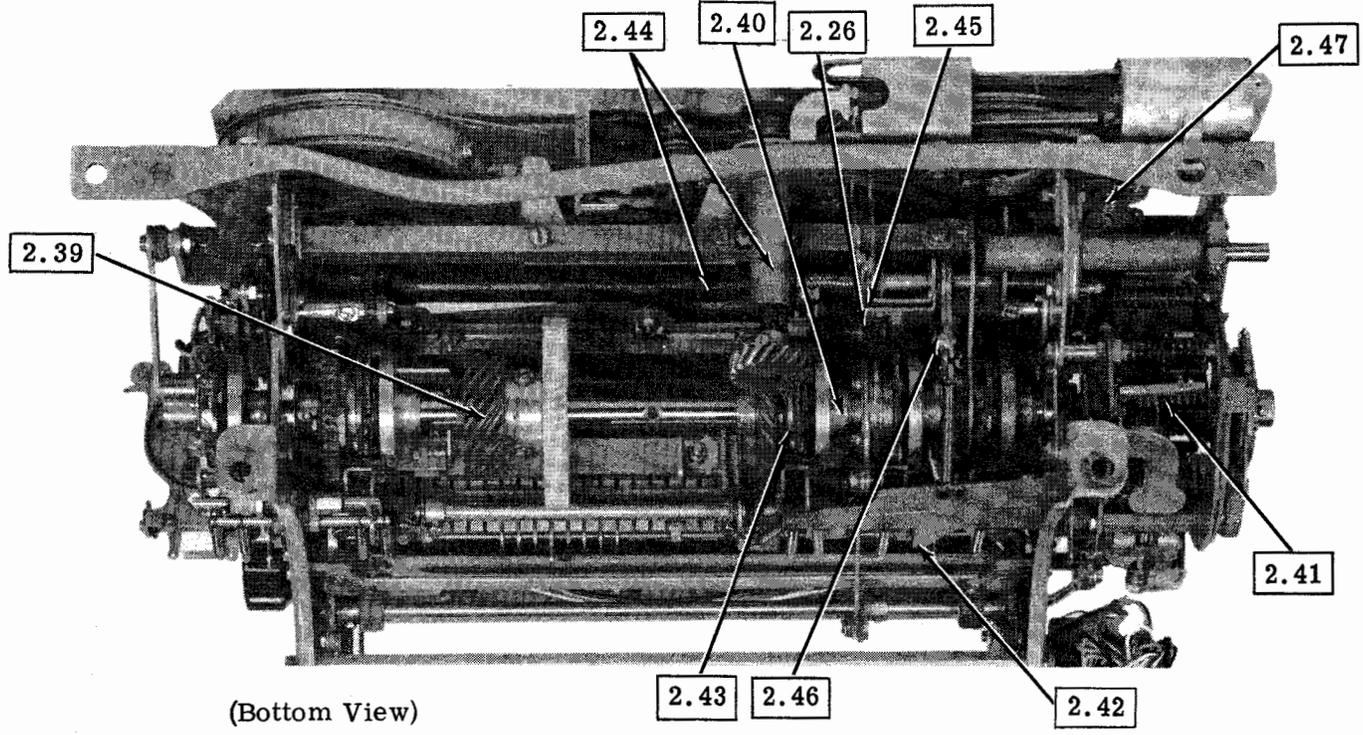
(Left Side View)

- | | | |
|-----|--------------------------------|---------------------------|
| SAT | Felt Washer | Shift Slide
Drive Link |
| O2 | Bearing Surfaces
(2 Places) | Main Bail Link |

2.37 Oscillating Mechanism

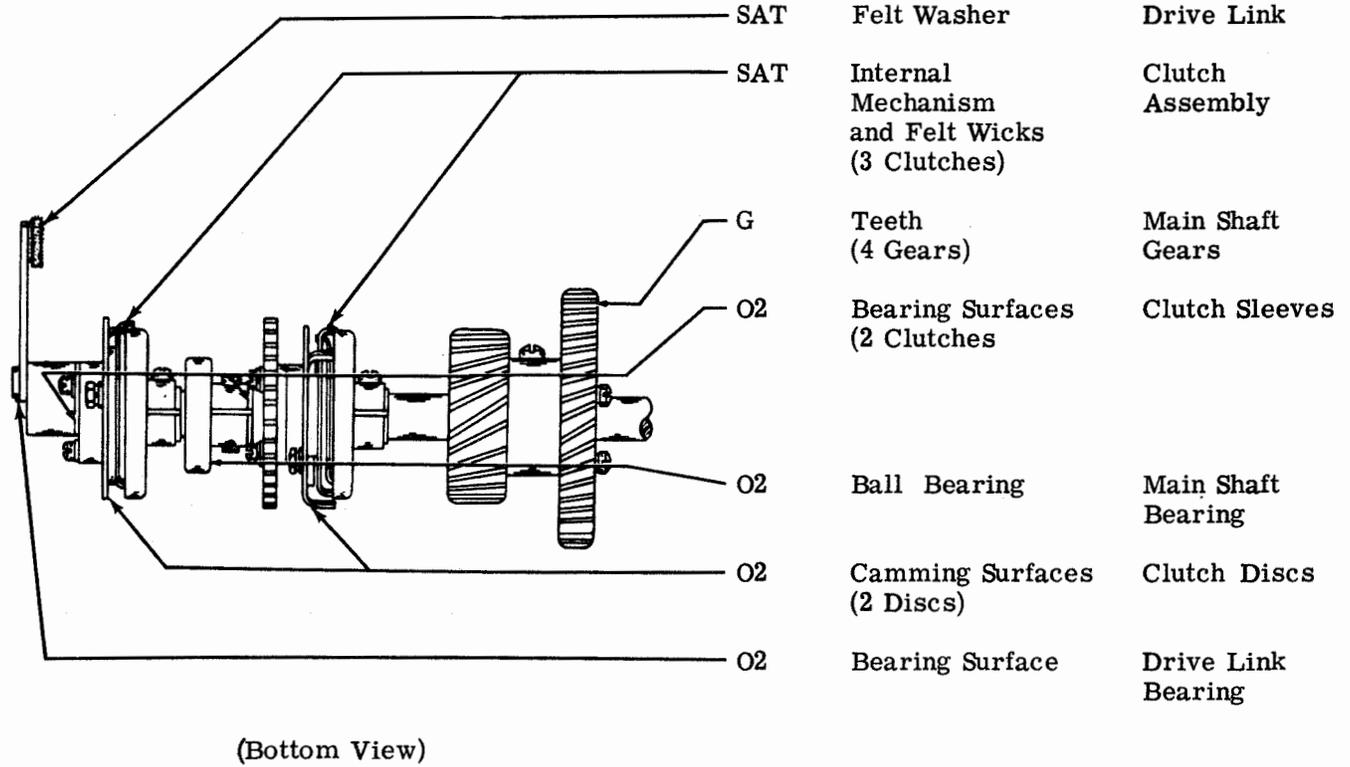


2.38 Main Shaft Area



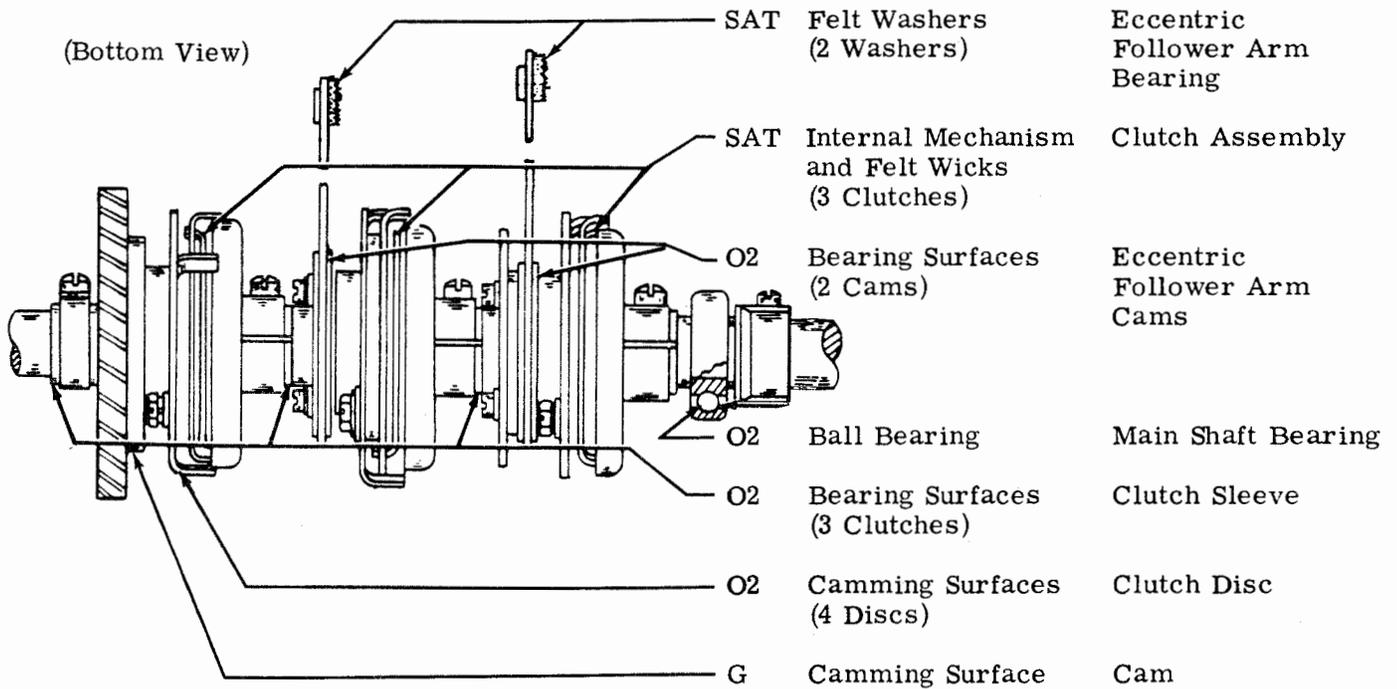
(Bottom View)

2.39 Main Shaft (Clutches, Gears, etc)

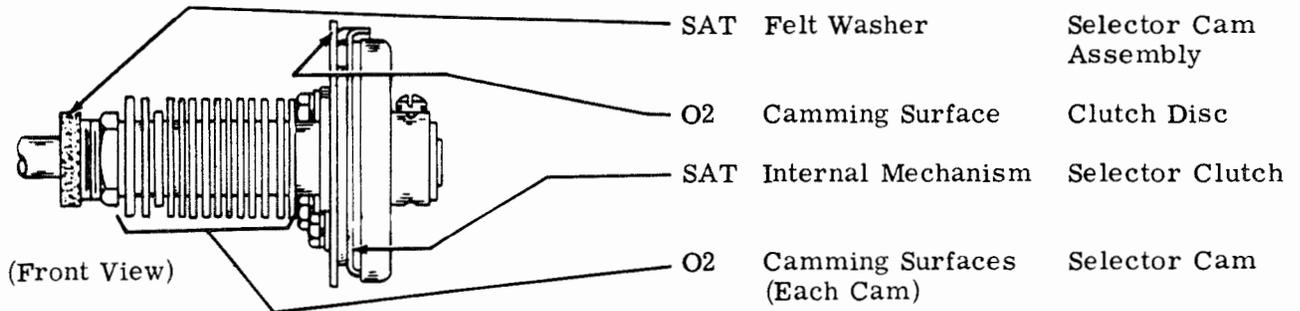


(Bottom View)

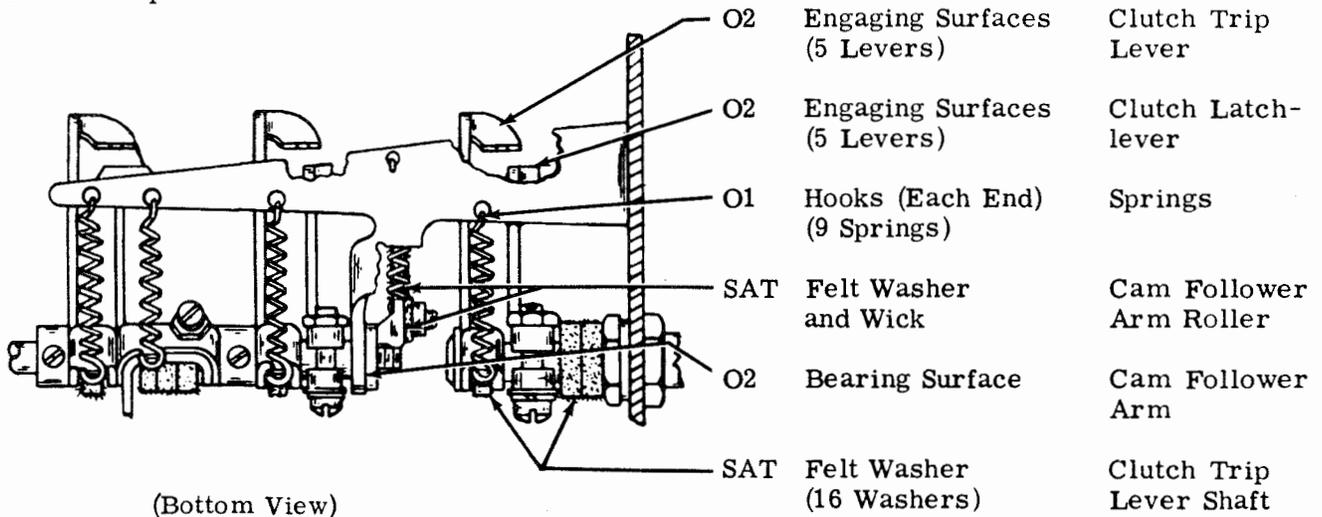
2.40 Main Shaft (Clutches, Gears, etc) (continued)



2.41 Selector Cam Clutch Assembly

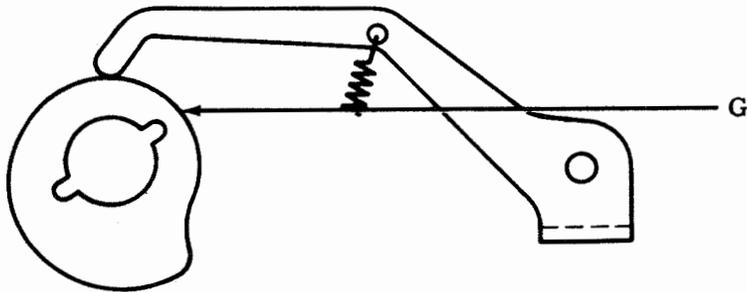


2.42 Trip Shaft Mechanism



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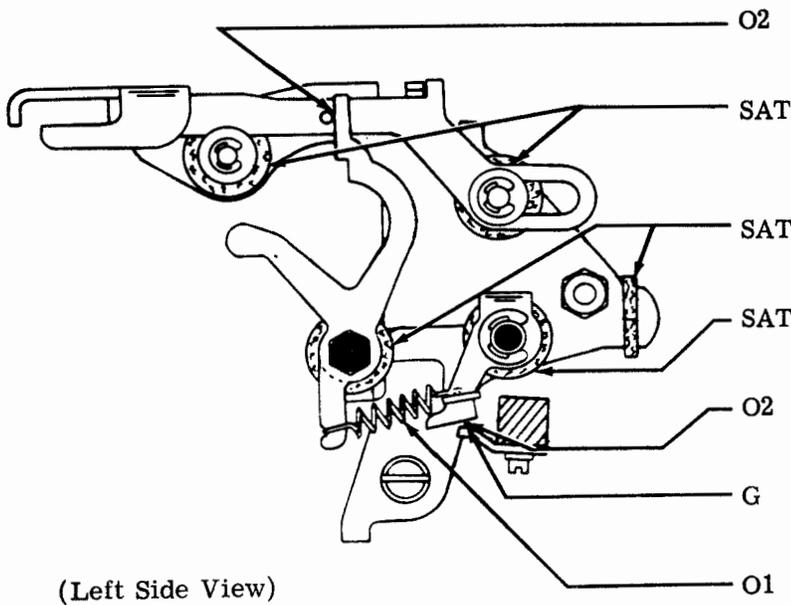
2.43 Spacing Clutch Trip Cam Mechanism



(Right Side View)

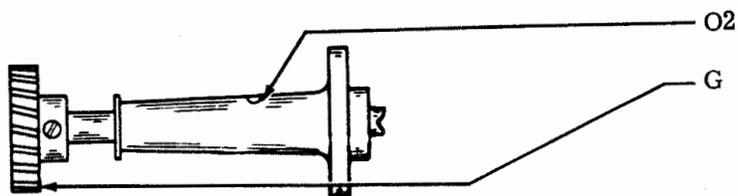
Camming Surface	Spacing Clutch Trip Cam
-----------------	-------------------------

2.44 Spacing Mechanism



(Left Side View)

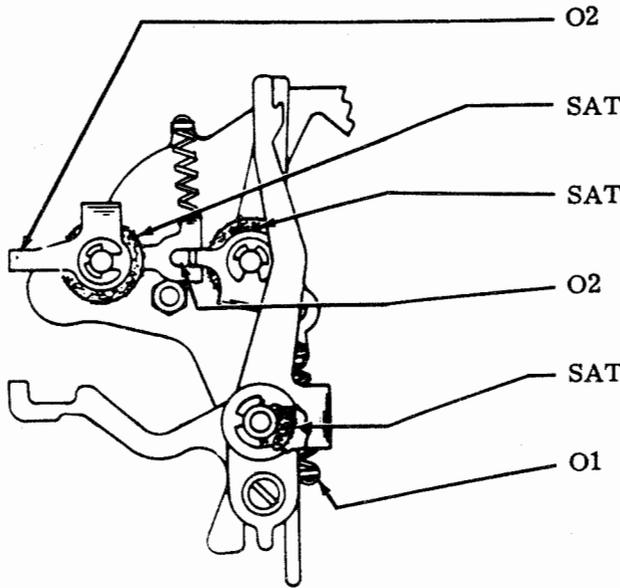
O2	Engaging Surfaces	Spacing Trip Lever
SAT	Felt Washers (2 Washers)	Spacing Suppression Slide
SAT	Felt Washers (2 Washers)	Spacing Trip Lever
SAT	Felt Washer	Spacing Trip Lever Bail Shaft
O2	Engaging Surface	Spacing Trip Lever Bail
G	Engaging Surface	Rocker Shaft Cam Place
O1	Hooks (Each End) (2 Springs)	Spring



(Bottom View)

O2	Oil Hole	Spacing Shaft
G	Teeth	Spacing Shaft Gear

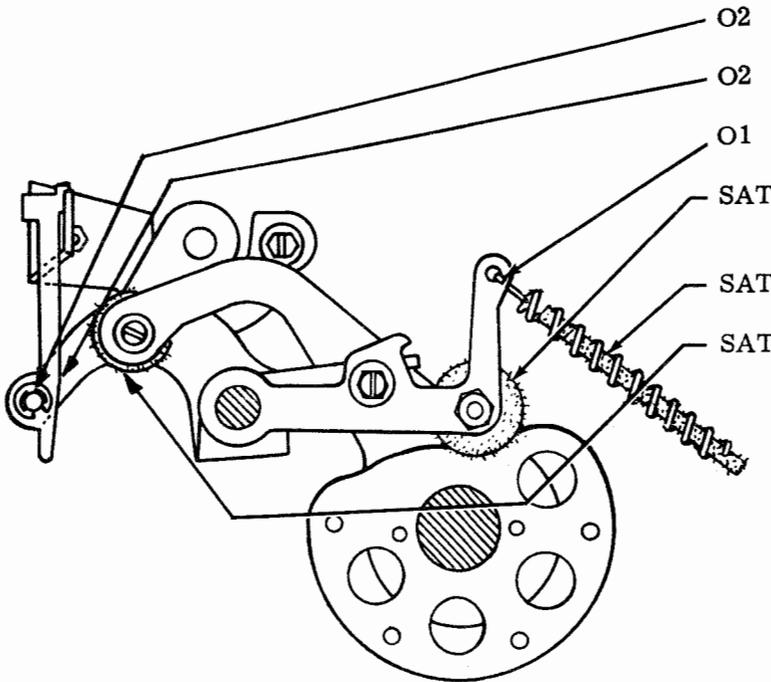
2.45 Spacing Mechanism (continued)



(Right Side View)

- | | | |
|-----|--------------------------|-------------------------------|
| O2 | Engaging Surface | Spacing Cut-Out Transfer Bail |
| SAT | Felt Washers (2 Washers) | Spacing Cut-Out Transfer Bail |
| SAT | Felt Washer | Spacing Cut-Out Bail |
| O2 | Engaging Surface | Spacing Cut-Out Bail |
| SAT | Felt Washers (2 Washers) | Carriage Return Bail Shaft |
| O1 | Hooks (Each End) | Spring |

2.46 Shift Selector Mechanism

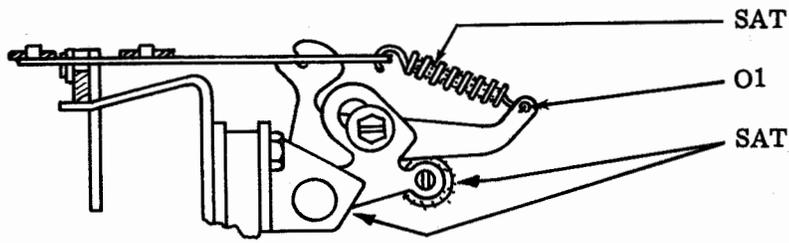


(Bottom Left View)

- | | | |
|-----|------------------|-----------------------------|
| O2 | Pivot | Shift Drive Pawl |
| O2 | Engaging Surface | Shift Drive Pawl |
| O1 | Hooks (Each End) | Spring |
| SAT | Felt Washer | Codebar Clutch Cam Follower |
| SAT | Felt Wick | Spring |
| SAT | Felt Washer | Shift Drive Link |

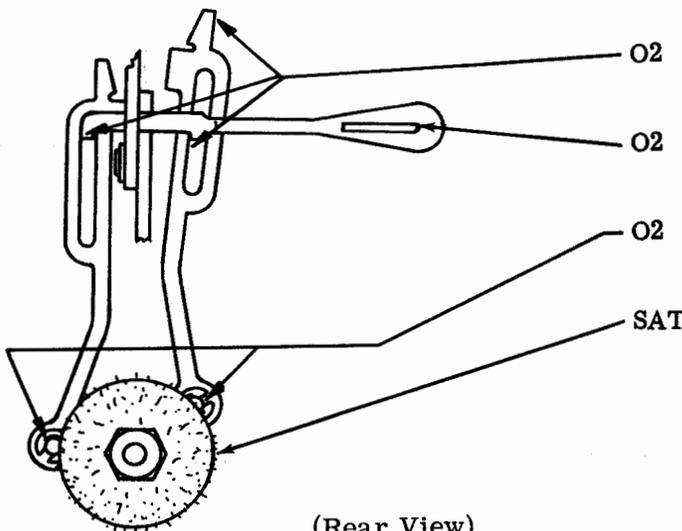
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2.47 Shift Selector Mechanism (continued)



(Rear View)

- SAT Felt Wick Spring
- O1 Hooks (Each End) Spring
- SAT Felt Washers (2 Washers) Shift Selector Arm Bell-crank

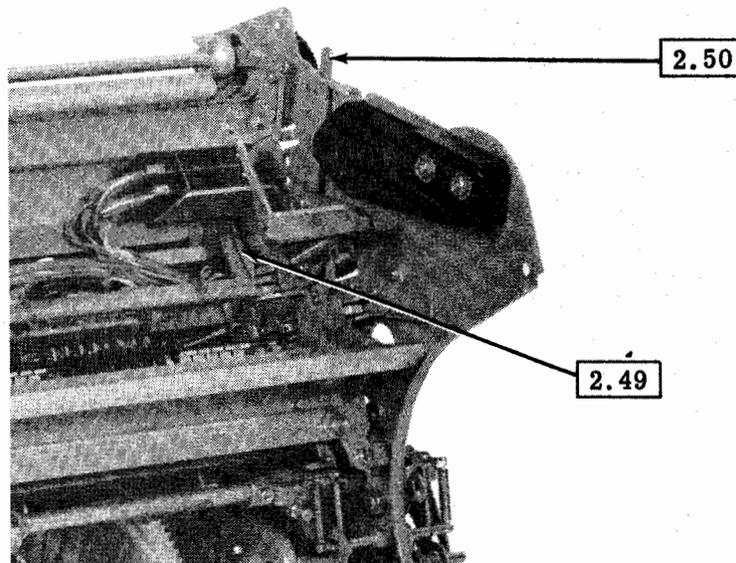


(Rear View)

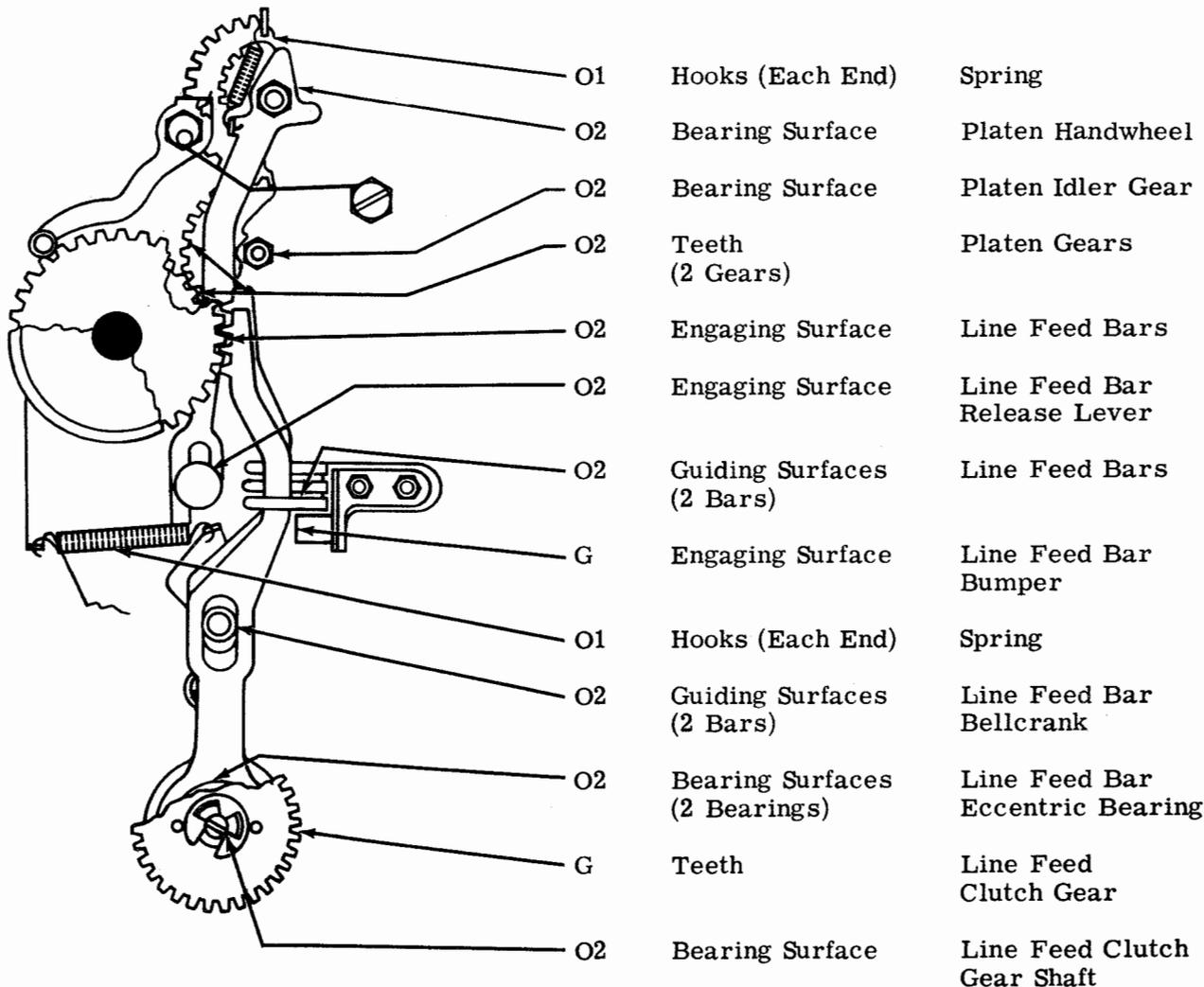
- O2 Engaging Surfaces (3 Places) Shift Pawl
- O2 Guide Surface Shift Pawl Link
- O2 Pivots (2 Places) Shift Pawl
- SAT Felt Washer Shift Pawl

2.48 Line Feed Area

(Rear View)

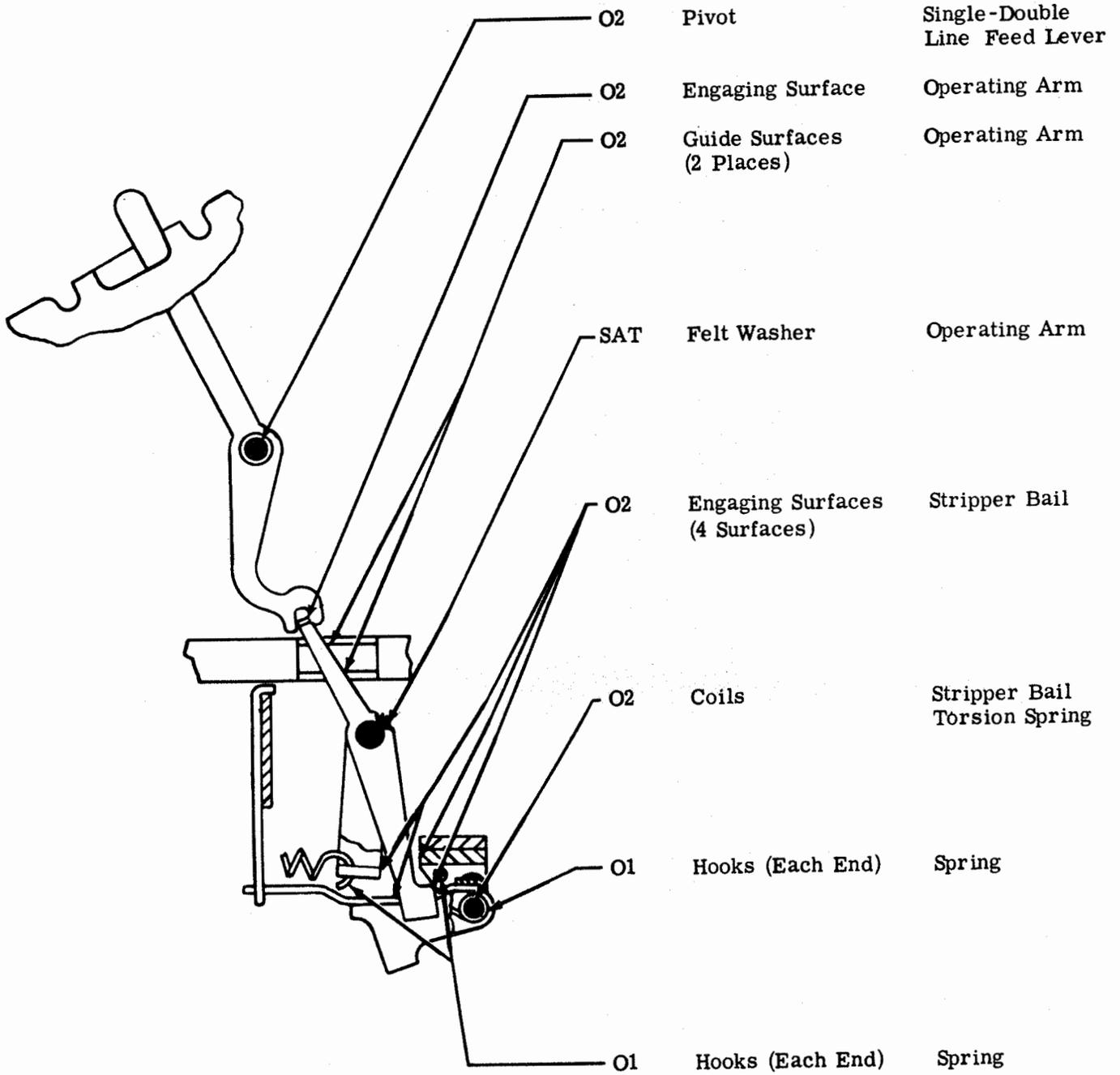


2.49 Line Feed Mechanism (Friction Feed)

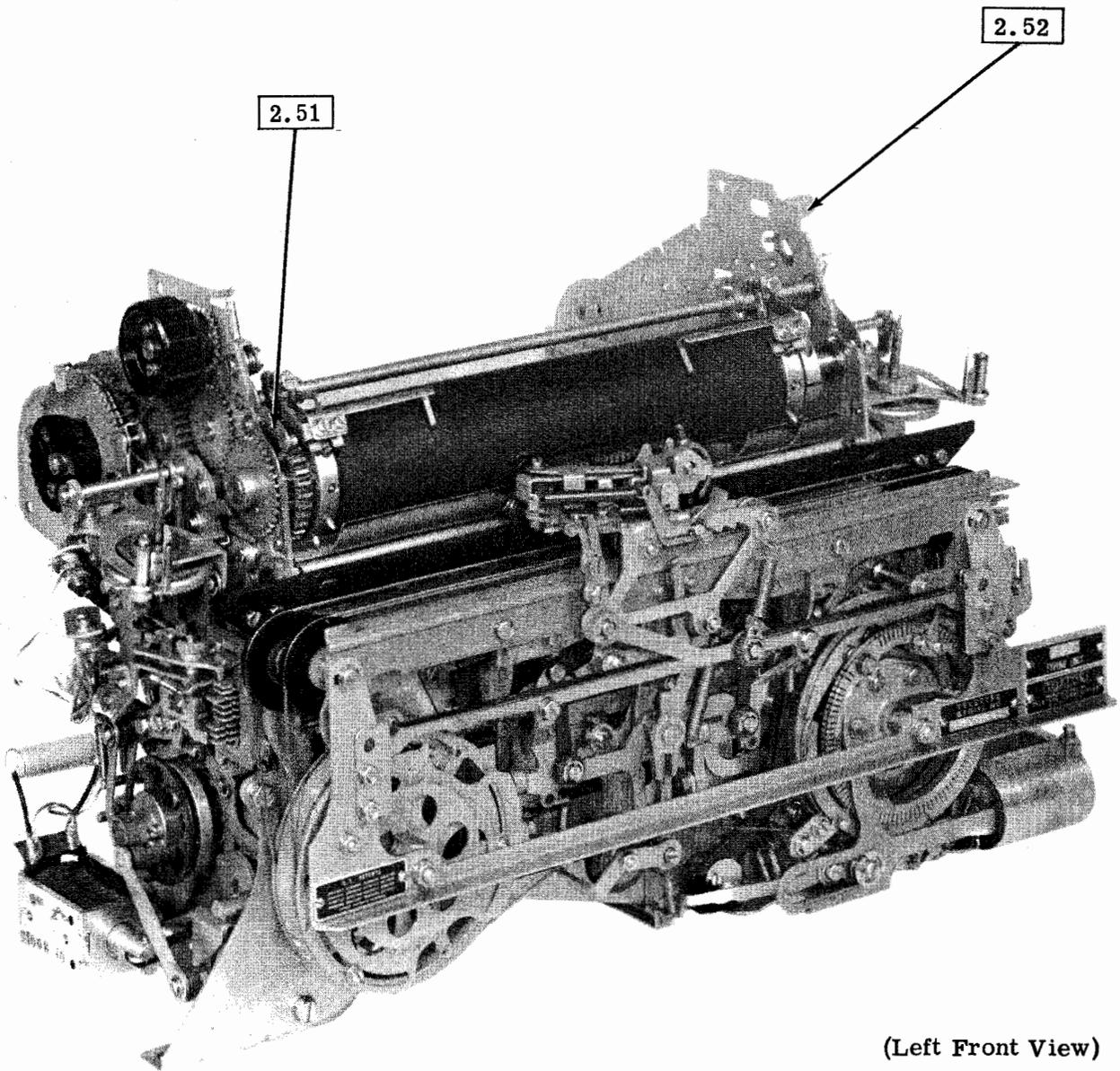


(Right Rear View)

2.50 Single-Double Line Feed Mechanism



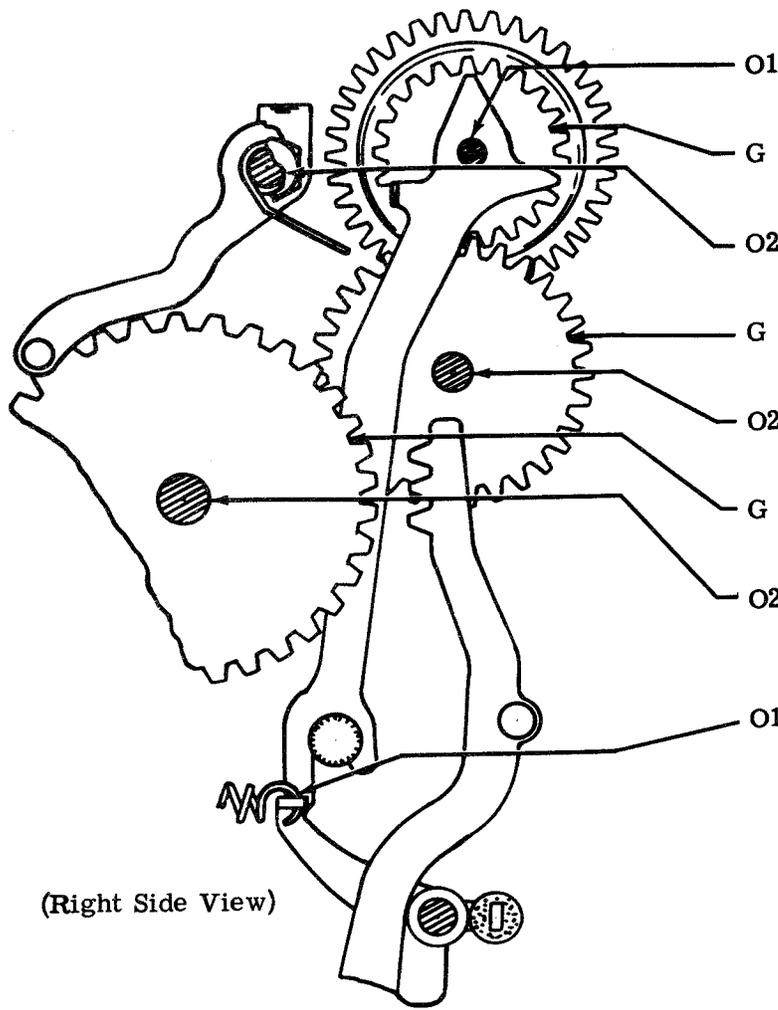
(Left Side View)



(Left Front View)

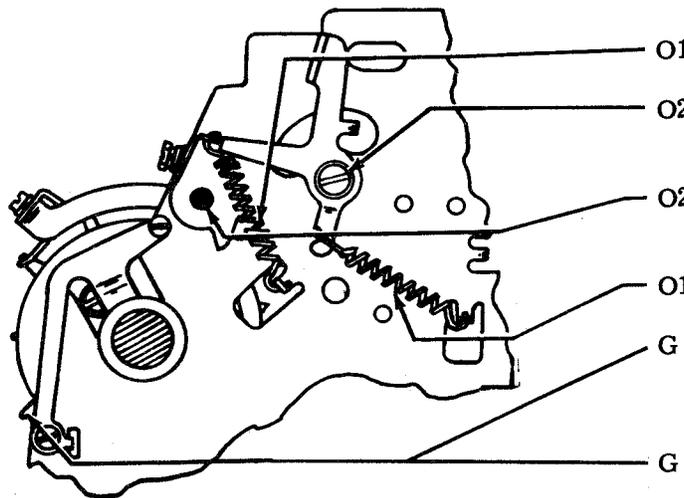
Figure 3 - 35 Typing Unit (Sprocket Feed)

2.51 Line Feed Mechanism (Sprocket Feed)



- | | | |
|----|--------------------------------|--------------------|
| O1 | Bearing Surface | Handwheel Gear |
| G | Teeth | Handwheel Gear |
| O2 | Bearing Surface | Platen Detent Bail |
| G | Teeth | Idler Gear |
| O2 | Bearing Surface | Idler Gear |
| G | Teeth | Platen Gear |
| O2 | Bearing Surfaces
(2 Places) | Platen Gear |
| O1 | Hooks (Each End) | Spring |

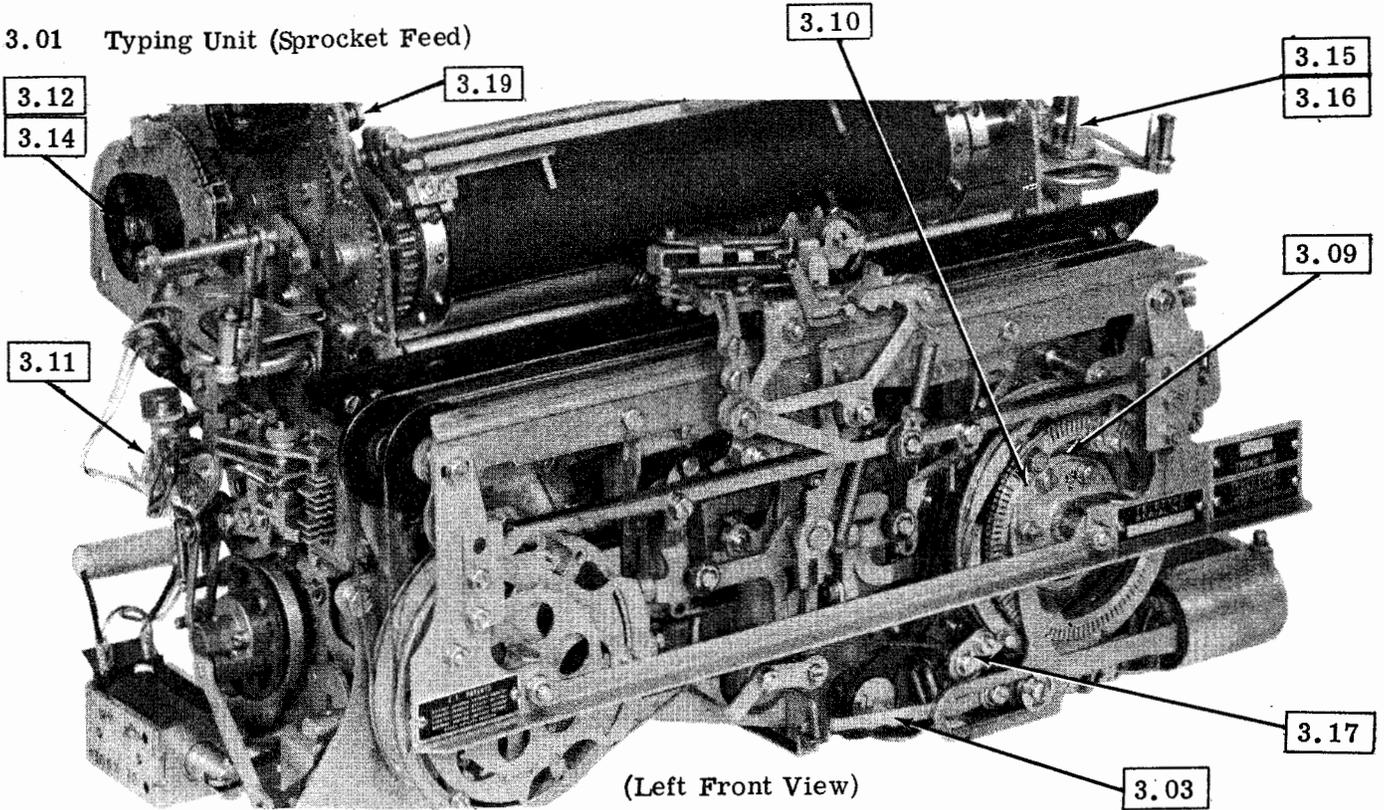
2.52 Sprocket Feed Paper Mechanism



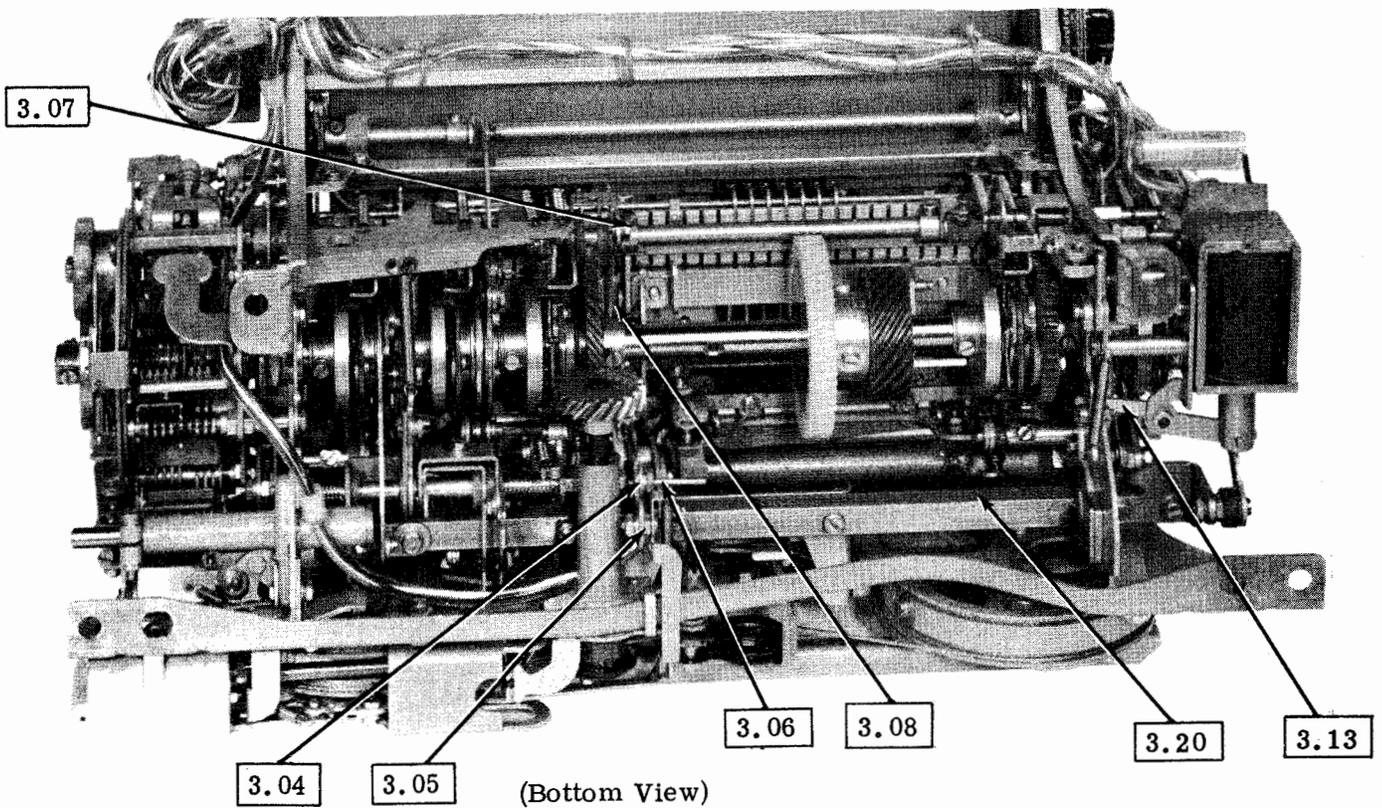
- | | | |
|----|------------------------------------------------|------------------------------|
| O1 | Hooks (Each End) | Spring |
| O2 | Pivot
(2 Places) | Guide Bracket
Latch |
| O2 | Pivots
(2 Places) | Guide Bracket
Shaft |
| O1 | Hooks (Each End) | Spring |
| G | Pack Pin and
Spring Cavaties
(22 Places) | Sprocket With
Steel Pins |
| G | Light Coat
Do Not Pack
With Grease | Sprocket With
Delrin Pins |

3. VARIABLE FEATURES

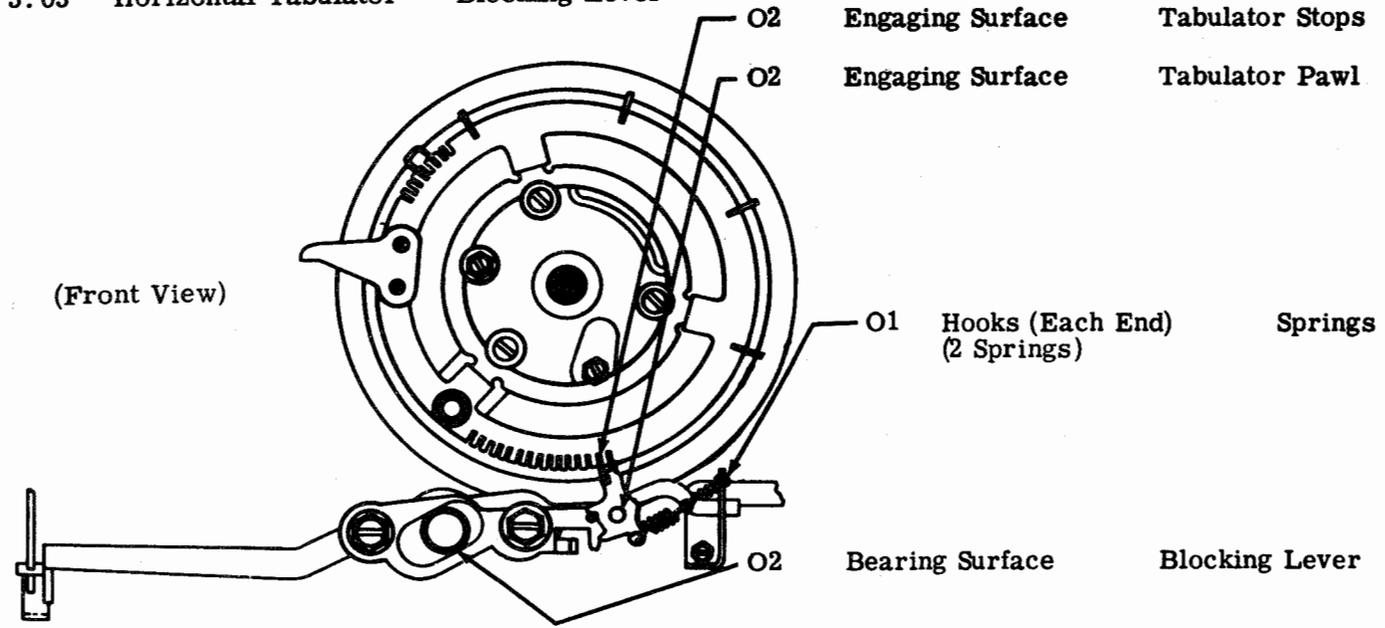
3.01 Typing Unit (Sprocket Feed)



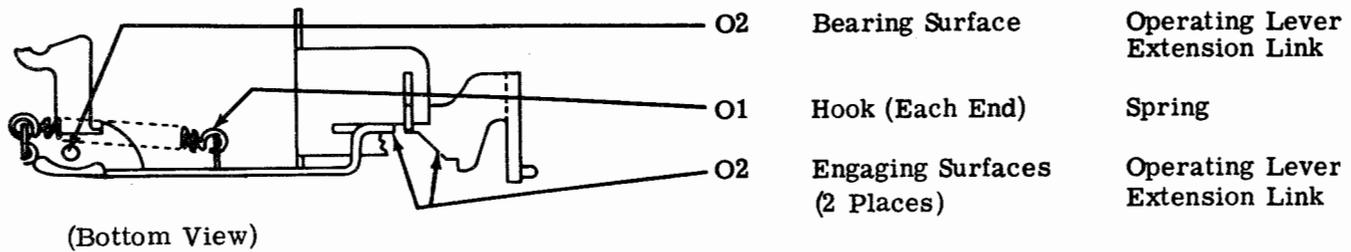
3.02 Horizontal Tabulator Area



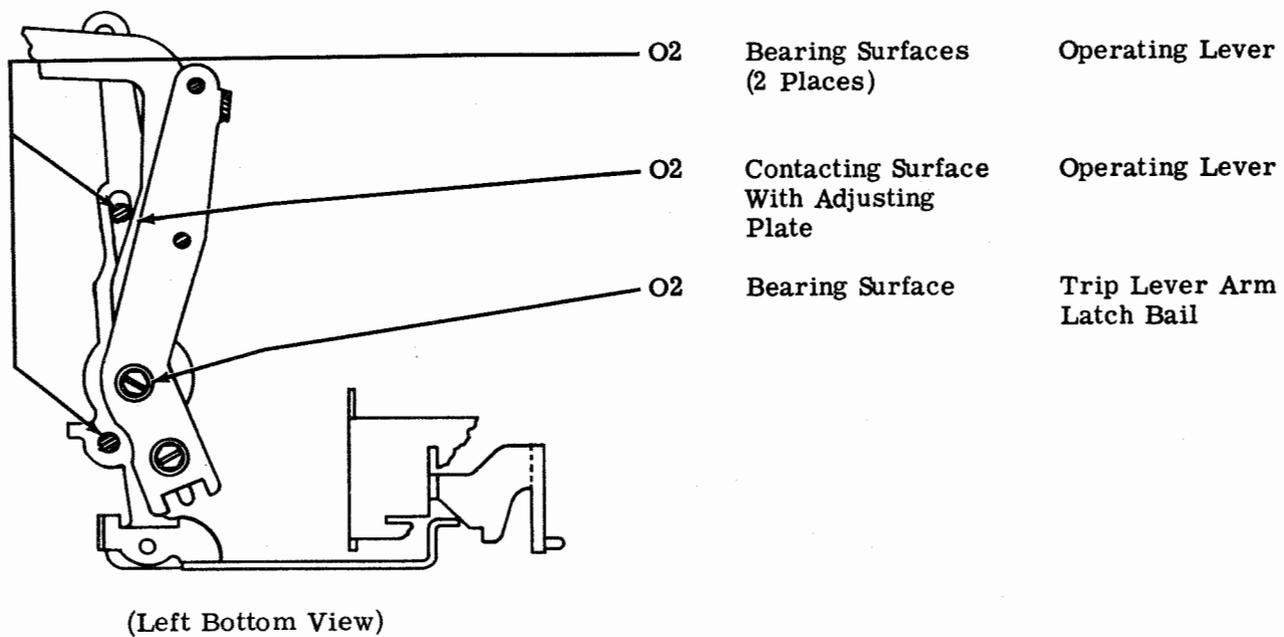
3.03 Horizontal Tabulator — Blocking Lever



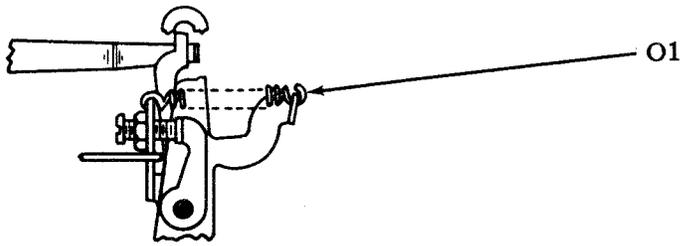
3.04 Horizontal Tabulator — Slide Arm



3.05 Horizontal Tabulator — Operating Lever



3.06 Horizontal Tabulator — Latch Bail

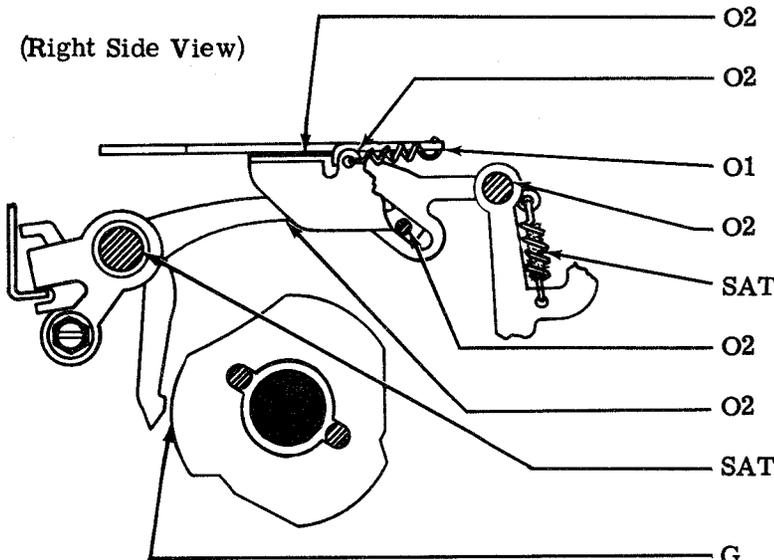


(Left Side View)

O1	Hooks (Each End)	Latch Bail Spring
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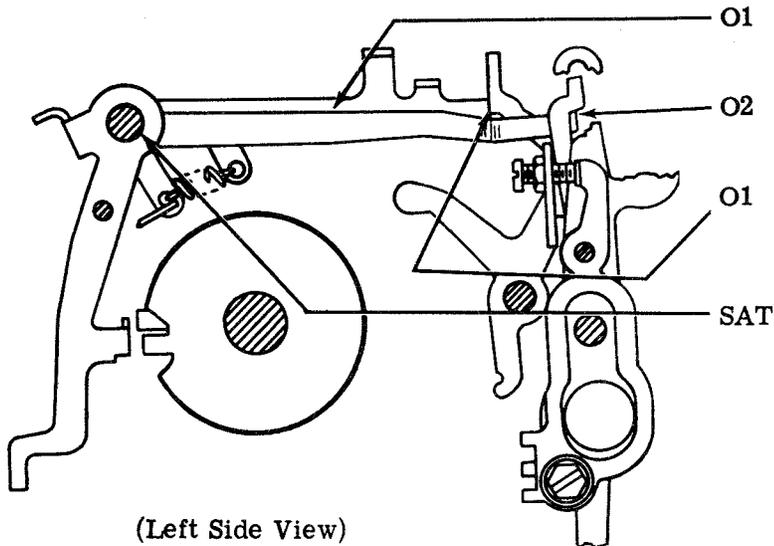
3.07 Horizontal Tabulator — Operating Lever (continued)

(Right Side View)



O2	Guide Surface	Operating Lever
O2	Contact With Slide Arm	Operating Lever
O1	Hooks (Each End)	Slide Arm Spring
O2	Bearing Surface	Operating Lever
SAT	Felt Wick	Spring
O2	Camming Surface	Operating Lever
O2	Contact Surface	Operating Lever
SAT	Felt Washers	Stripper Bail Shaft
G	Camming Surface	Spacing Clutch Restoring Cam

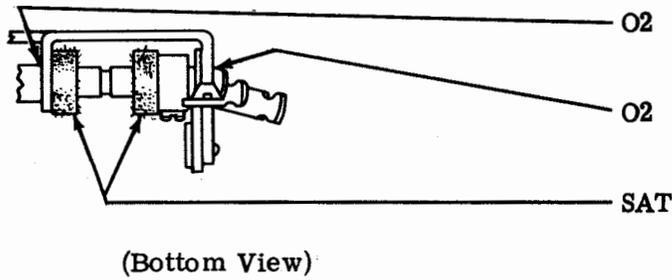
3.08 Horizontal Tabulator — Intermediate Bail



(Left Side View)

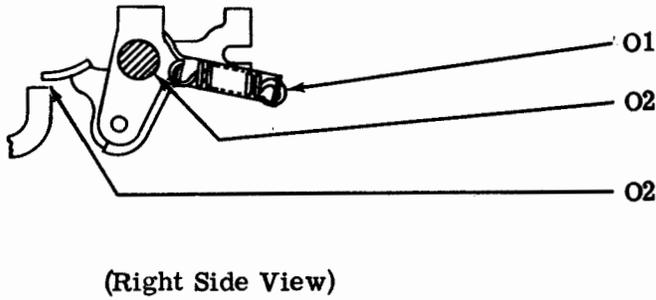
O1	Contact Surface Trip Lever Arm	Intermediate Bail
O2	Contact Surface	Spacing Trip Lever Arm
O1	Contact Surface Spacing Trip Lever	Intermediate Bail
SAT	Felt Washer	Trip Lever Arm Shaft

3.09 Horizontal Tabulator — Bail Extension Arm



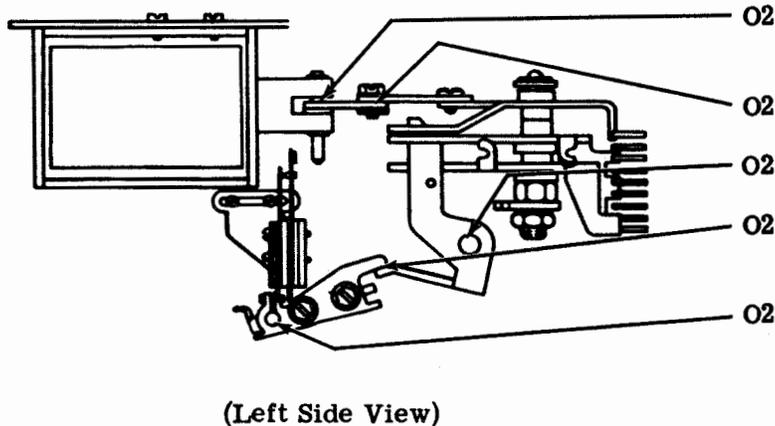
- | | | |
|-----|--------------------------|-------------------------------|
| O2 | Bearing Surface | Spacing Cut-Out Transfer Bail |
| O2 | Contact Surface | Spacing Cut-Out Transfer Bail |
| SAT | Felt Washers (2 Washers) | Transfer Bail Stud |

3.10 Spacing Cut-Out Transfer Bail



- | | | |
|----|------------------|--------------------|
| O1 | Hooks (Each End) | Spring |
| O2 | Bearing Surface | Bail Extension Arm |
| O2 | Contact Surface | Bail Extension Arm |

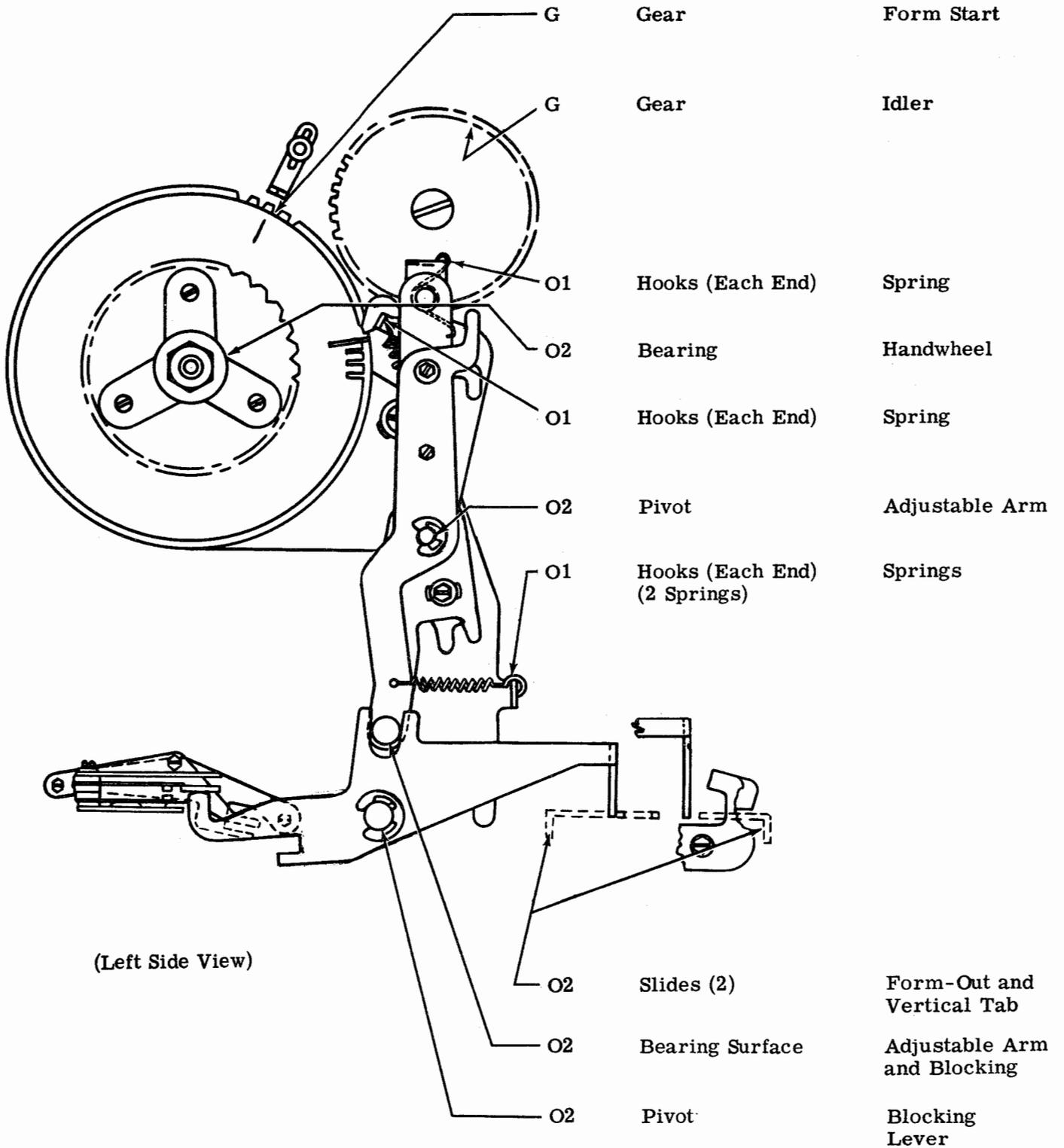
3.11 Print-Nonprint Solenoid Mechanism



- | | | |
|----|------------------|-------------------------|
| O2 | Pivot Point | Solenoid Plunger |
| O2 | Pivot Point | Extension Link |
| O2 | Pivot Point | Blocking Bail |
| O2 | Blocking Surface | Blocking Bail Extension |
| O2 | Pivot Point | Trip Arm |

Note: Do not oil the cylindrical surface or pole face of solenoid plunger.

3.12 Vertical Tabulator and Transmitter Distributor Control Mechanism

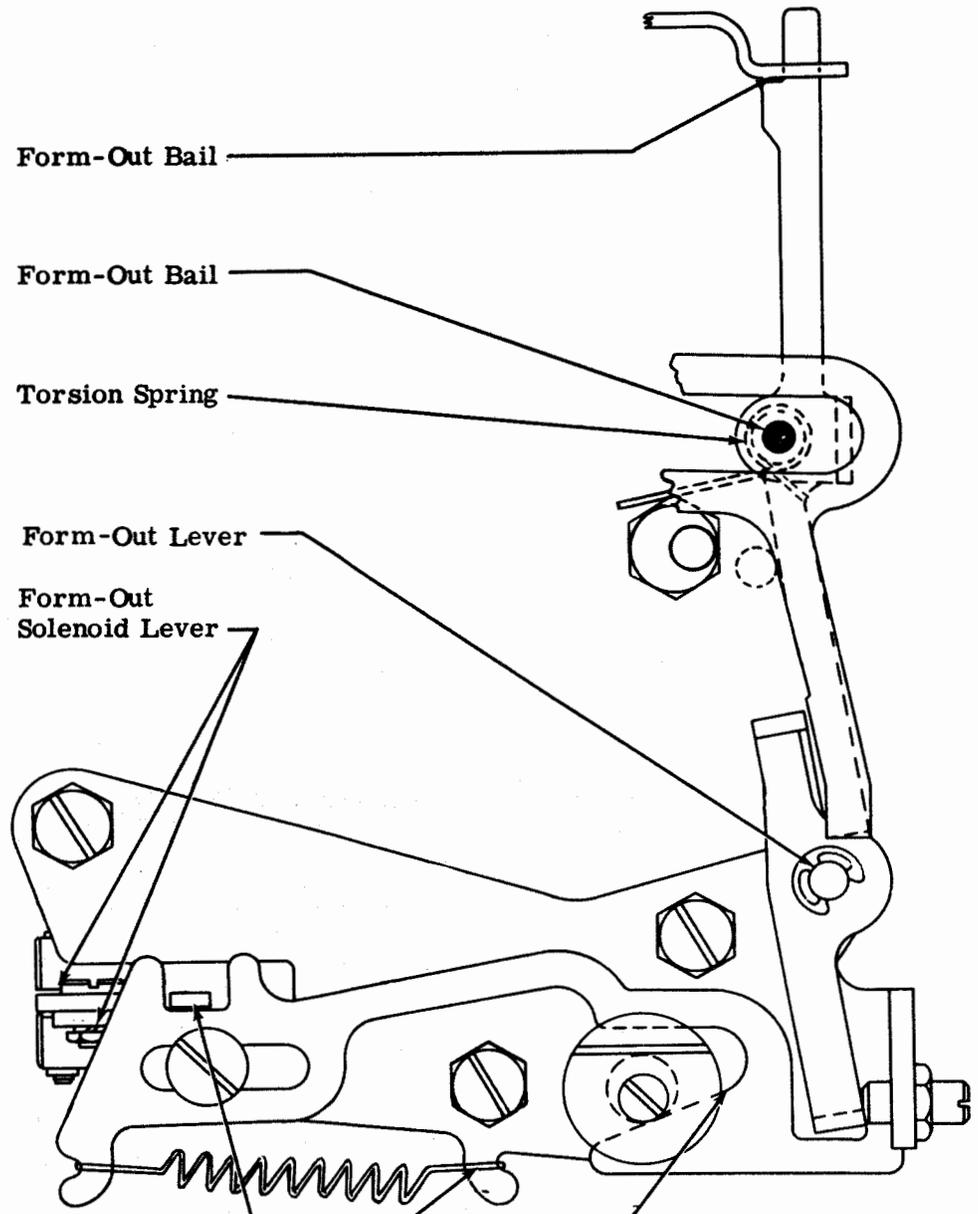


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3.13 Form-Out Mechanism

- O2 Engaging Surface Form-Out Bail
- O2 Pivot Form-Out Bail
- O1 Loop Torsion Spring
- O2 Pivot Form-Out Lever
- O2 Pivot (2 Places) Form-Out Solenoid Lever

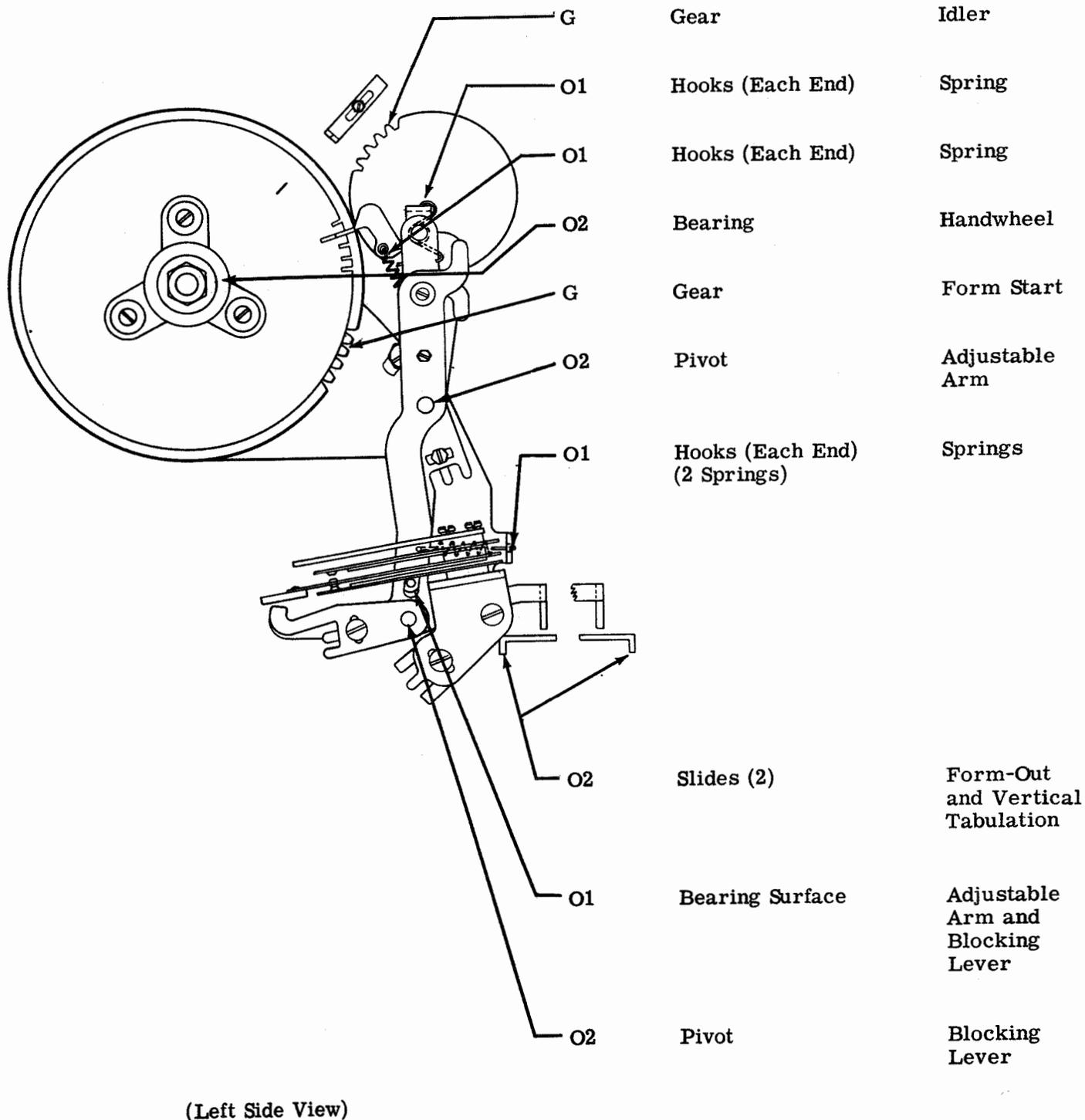
Note: Do not oil plunger.



- O2 Engaging Surface Solenoid Lever
- O1 Hooks (Each End) Spring
- O2 Guide Surface (2 Places) Nonrepeat Slide

(Left Frame Viewed From Right Rear)

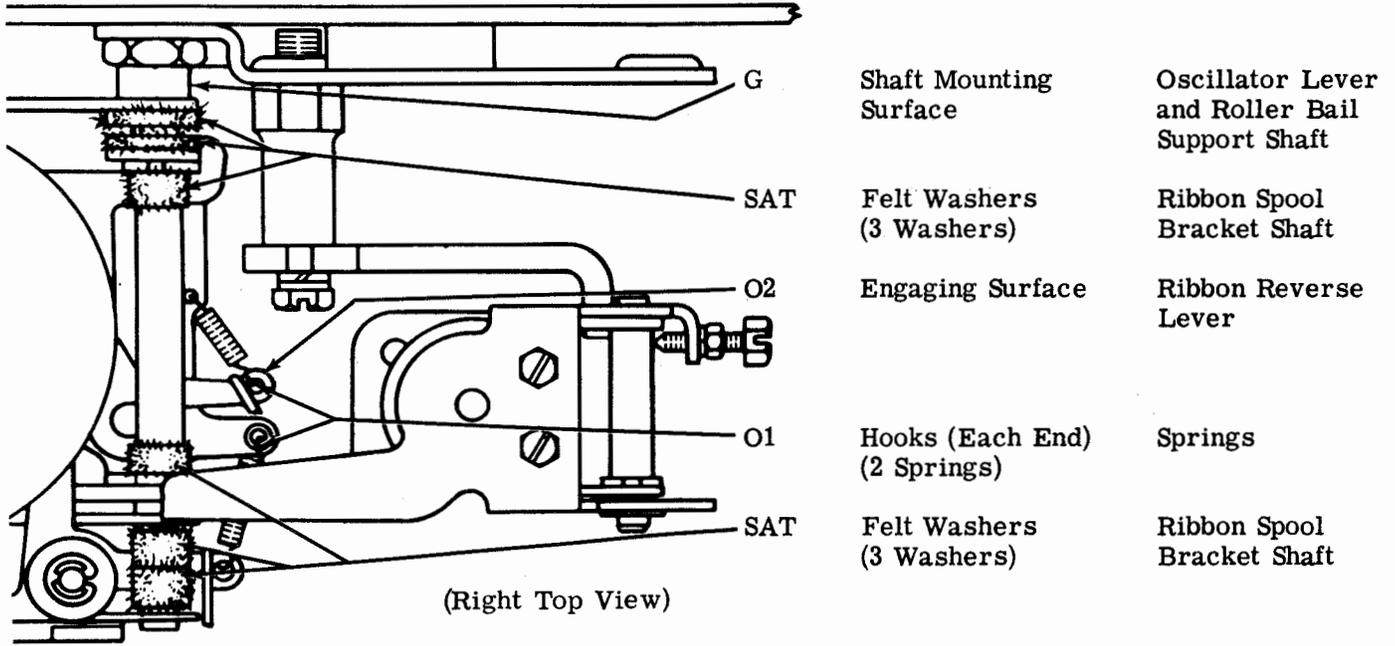
3.14 Vertical Tabulator Mechanism (For Switch Network Service)



(Left Side View)

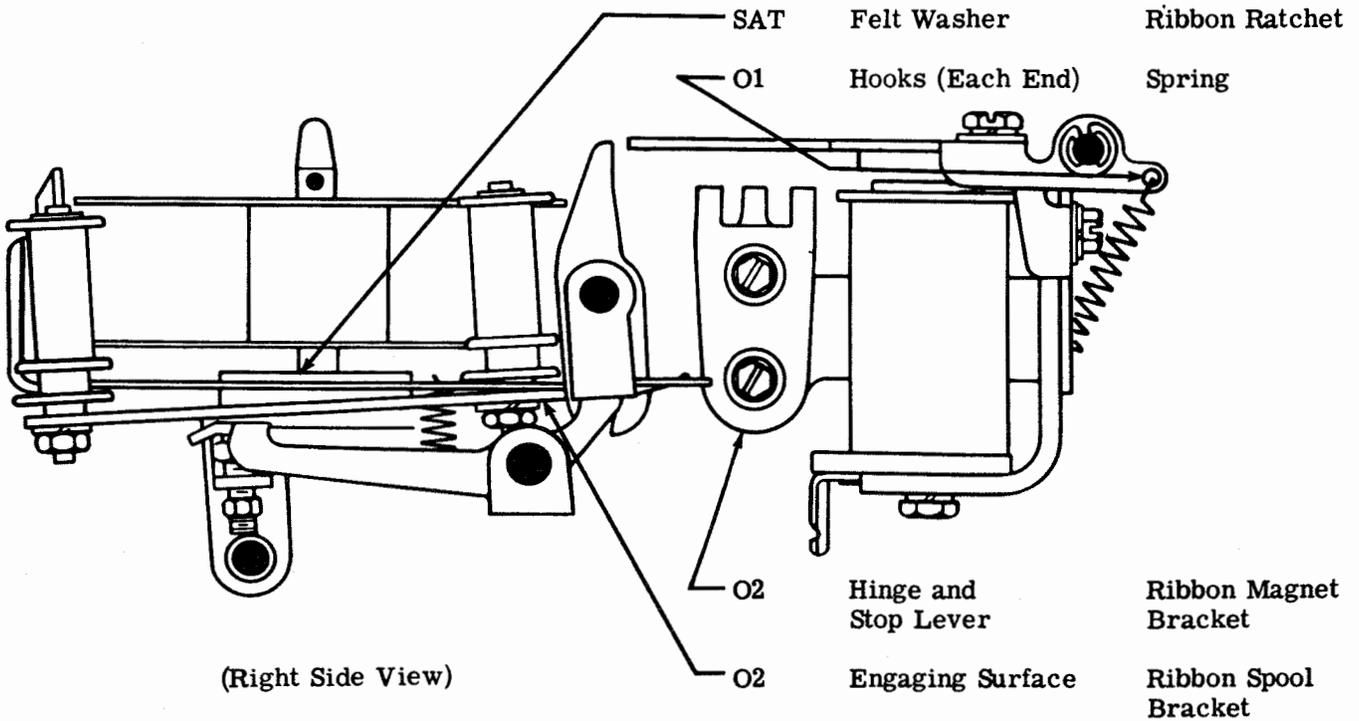
3.15 Two Color Ribbon Shift Mechanism — Oscillating Lever

Note: Photograph reference shows general area of this mechanism and not the actual mechanism.

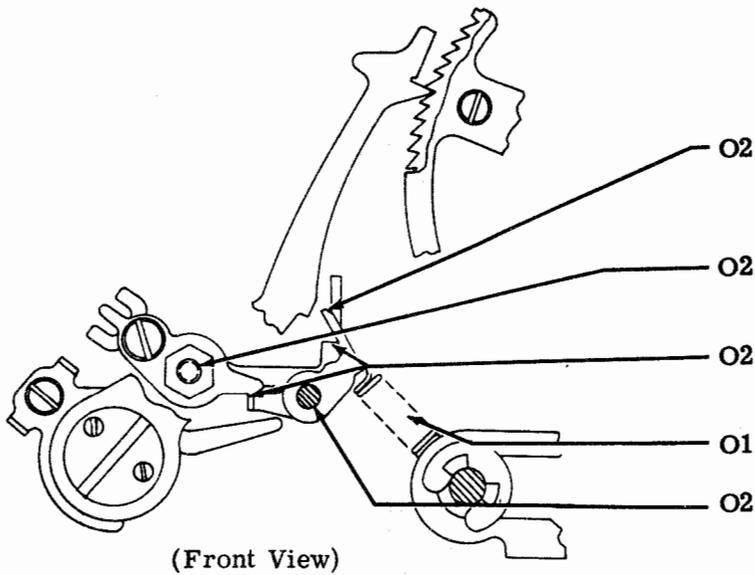


3.16 Two Color Ribbon Shift Mechanism — Ribbon Operating Mechanism

Note: Photograph reference shows general area of this and not the actual mechanism.

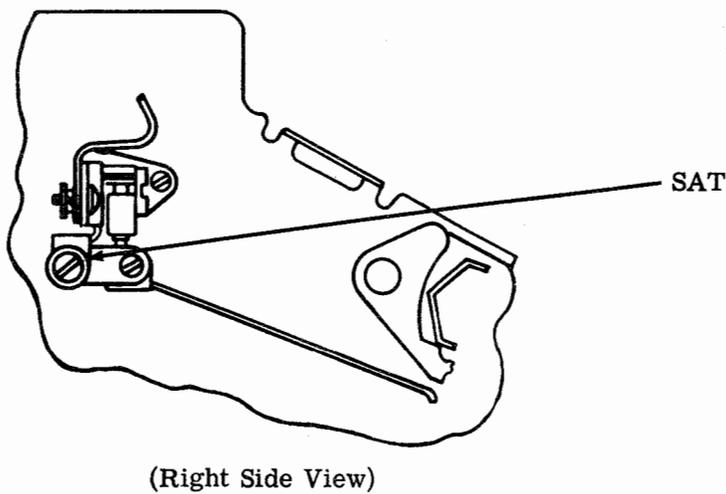


3.17 Local Backspace Mechanism



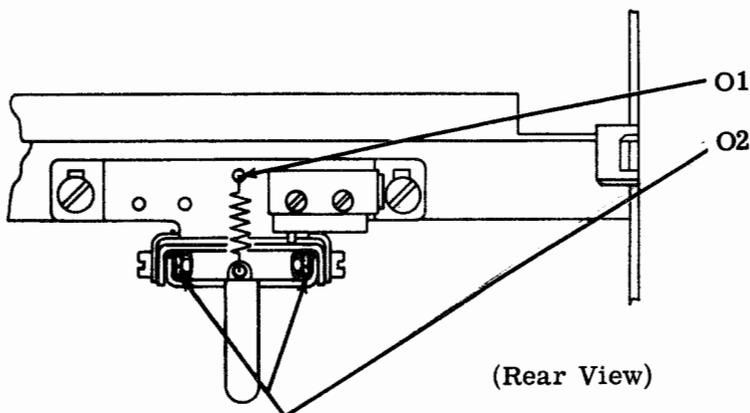
- | | | |
|----|------------------------------|------------------------|
| O2 | Engaging Surface | Backspace Camming Bail |
| O2 | Bearing Surface | Adjusting Plate |
| O2 | Engaging Surfaces (2 Places) | Intermediate Arm |
| O1 | Hooks (Each End) | Spring |
| O2 | Bearing Surface | Backspace Camming Bail |

3.18 Paper-Out Alarm Mechanism (Friction Feed)



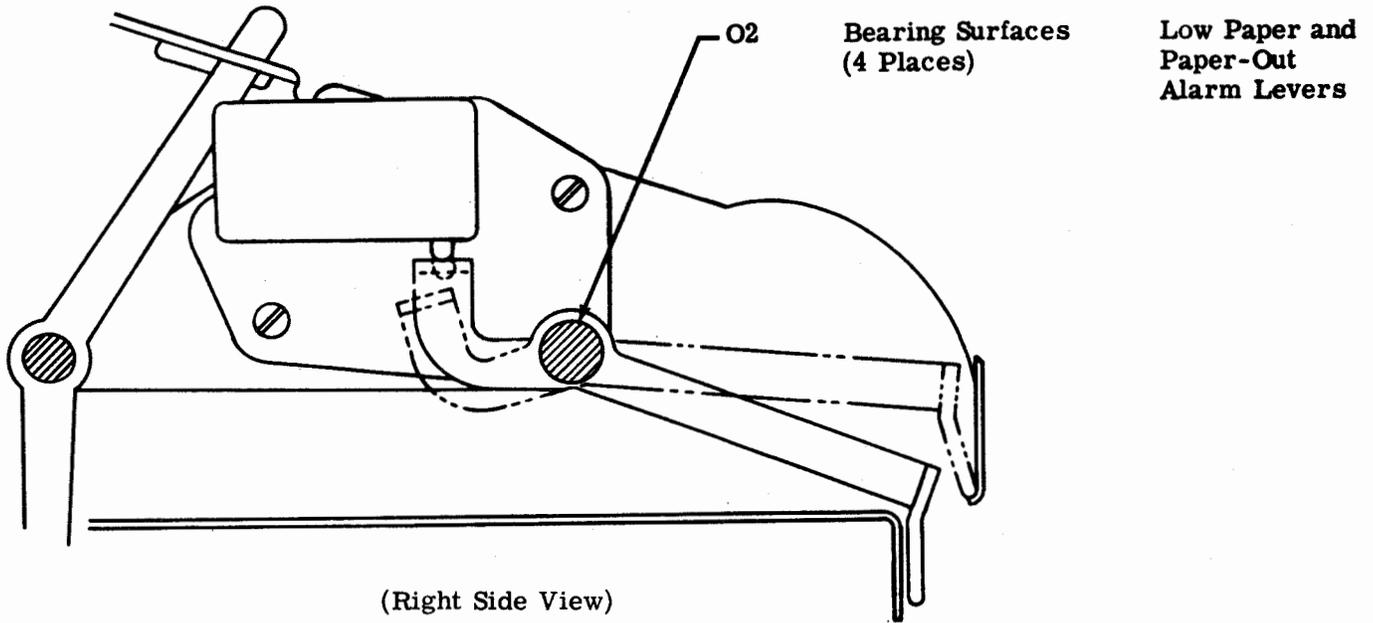
Note: See Figure 2 for location of this mechanism.

- | | | |
|-----|-------------|----------------|
| SAT | Felt Washer | Switch Bracket |
|-----|-------------|----------------|



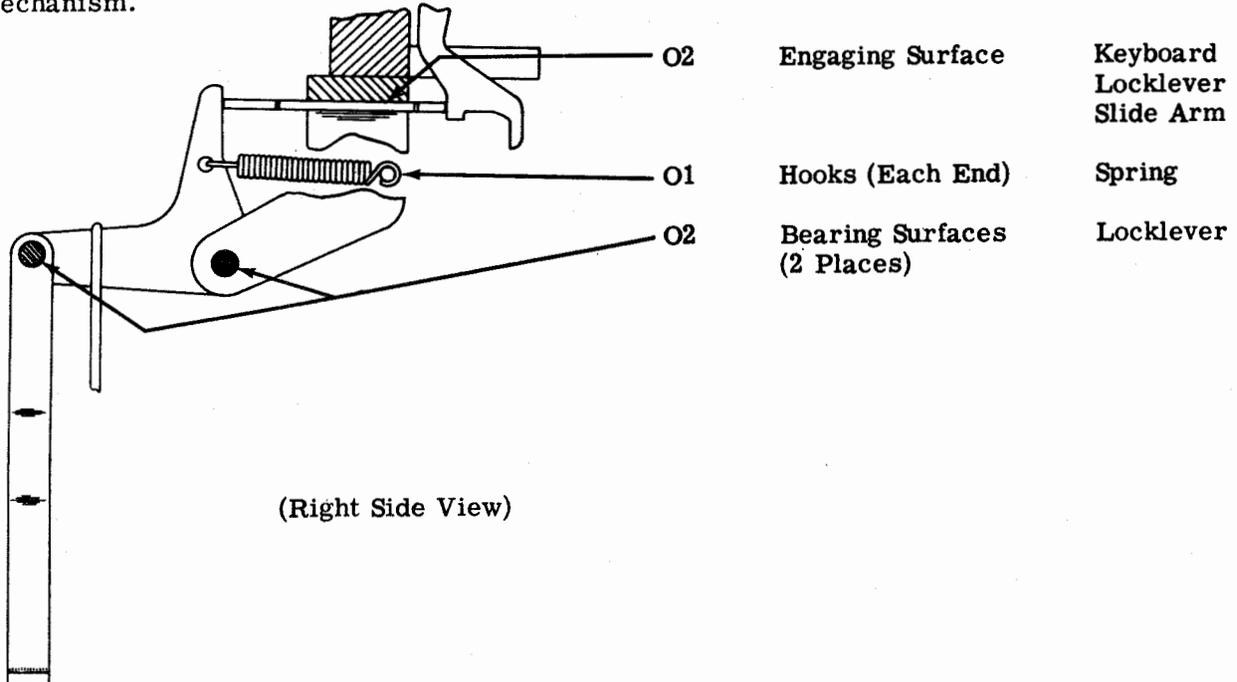
- | | | |
|----|-------------------------|---------------|
| O1 | Hooks (Each End) | Spring |
| O2 | Pivot Points (2 Places) | Lever Bracket |

3.19 Low Paper and Paper-Out Alarm Mechanism (Sprocket Feed)

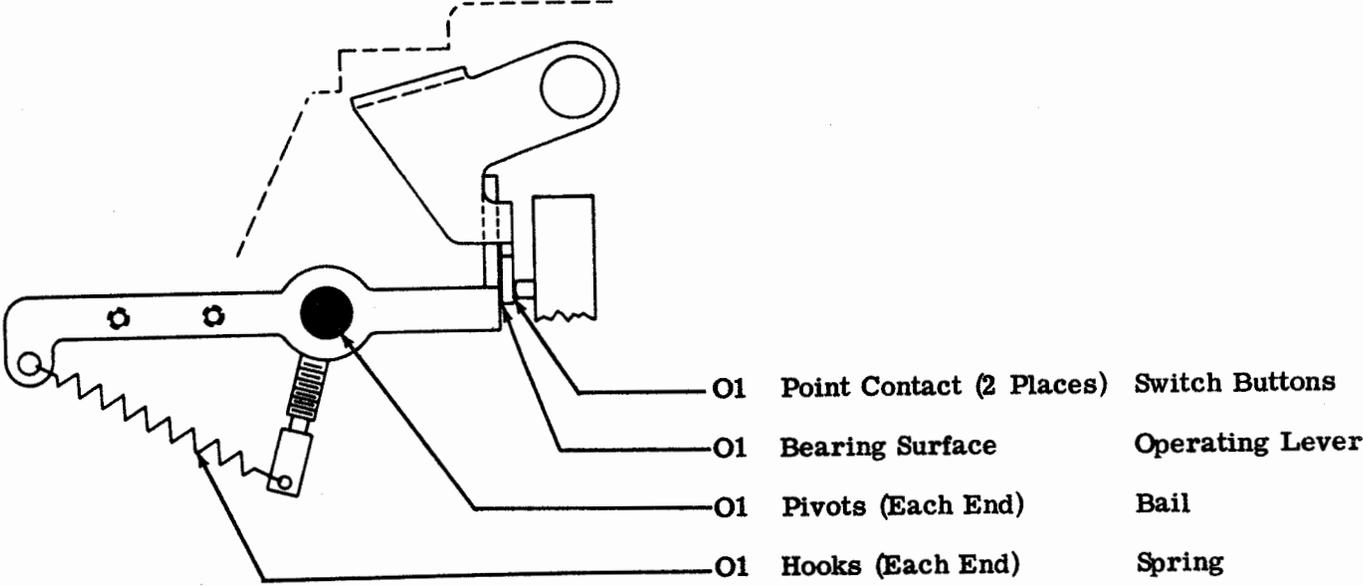


3.20 Keyboard Lock Mechanism

Note: Photograph reference shows general area of this mechanism and not the actual mechanism.



3.21 Paper Jam Alarm (Sprocket Feed)



(Right Side View)