

37 TYPING UNIT

LUBRICATION

1. GENERAL

1.001 This addendum, which supplements Section 574-320-704, Issue 2, is issued to add lubrication procedures for the dashpot plunger and for variable features not covered in Issue 2 of the section. Arrows in the margins indicate additions or changes.

1.002 Insert the attached pages in accordance with the filing instructions above.

Attached:

Page 1 dated November 1973, revised
Page 2 dated November 1973, revised
Page 3 dated November 1973, reissued
Page 4 dated November 1973, revised
Page 5 dated November 1973, revised
Page 6 dated November 1973, reissued
Page 47 dated November 1973, revised
Page 48 dated November 1973, revised
Page 49 dated November 1973, revised
Page 50 dated November 1973, revised
Page 51 dated November 1973, revised
Page 52 dated November 1973, revised
Page 53 dated November 1973, revised
Page 54 dated November 1973, revised
Page 55 dated November 1973, added

37 TYPING UNIT
LUBRICATION

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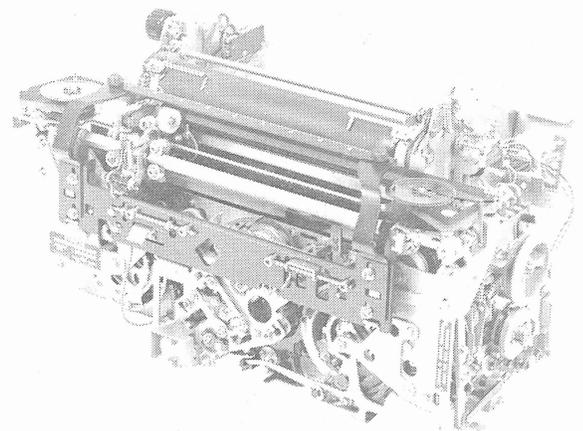


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1. GENERAL

1.01 This section provides lubrication procedures for the standard 37 typing unit (Figure 1), and the 37 wide platen typing unit (Figure 2). For similar information for the early design 37 typing unit, with exception to wide platen typing unit, refer to Section 574-320-701.

1.02 Lubrication of the 37 typing unit is presented by areas with the procedures arranged counterclockwise around the typing unit. Following the procedures in this manner minimizes shifting and handling of the unit.

1.03 Figures are used to show the lubrication areas. Paragraph numbers on the figures refer to the lubrication points. References made to front, bottom, rear, left, or right apply to the typing unit in its normal position as shown in 2.01. Some areas of this section have illustrations of mechanisms found only on the basic unit or on the wide platen unit. In these illustrations, subtitles are provided to indicate the respective unit that the general lubrication information is applicable.

1.04 Lubricate the 37 typing unit before placing it in service and just prior to putting it in storage. The mechanism of the typing unit should be relubricated after 200 hours of operation or four weeks, whichever comes first. Thereafter, lubricate all mechanisms of the typing unit according to the following schedule:

- 100 wpm 2000 hours or 9 months*
- 150 wpm 1500 hours or 6 months*

*Whichever occurs first.

CAUTION: DISCONNECT ALL AC POWER CORDS BEFORE PERFORMING ANY PROCEDURE.

1.05 The general lubrication requirements consist of oil locations on hollow shafts, oil cups, felt washers, and in most locations where parts rub or move with respect to each other. Grease should be used on gears, rollers, points of heavy pressure, and some ball bearings. Lubrication areas for the typing unit are outlined as follows.

- Pivot points require two or three drops of oil.
- Coil springs require one drop of oil for each end and one to two drops on the coil.
- Felt washers are saturated with oil.
- Cams and sliding surfaces require a film of oil.

pole piece have oil or foreign matter, proceed as follows.

1. Place a piece of clean paper between the armature and pole piece.
2. Energize the magnet.
3. Pull the paper through the armature and pole piece and check to insure that lint or pieces of paper do not remain.

Note: Closed ball bearings do not require lubrication. All open ball bearings should be packed with grease (KS7471).

1.07 Symbols O1, O2, O3, etc, refer to 1, 2, 3, etc, drops of oil. The following list of symbols apply to the lubrication instructions:

- | | |
|---|-----------------------------------|
| O | Oil KS7470 |
| G | Grease KS7471 |
| D | Keep dry, no lubricant permitted. |

1.08 Over lubrication which would allow oil to drip or grease to be thrown on other parts should be avoided. Capillary action and vaporization tend to keep a thin film of oil on the

mechanisms. This prevents rust and provides sufficient lubrication to many points.

Note: Maintenance pad TP124828 is available to protect furniture and floor coverings from oil, grease, and dirt while lubricating the unit.

1.09 When replacing lubricating wicks or felt oilers, proceed as follows.

1. Thoroughly saturate with oil.
2. Remove all excess oil by pressing oiler or wick between a clean cloth.
3. Place the saturated wick or felt oiler in its proper position on the mechanism.

CAUTION: SEVERE PERMANENT DAMAGE TO THE SINTERED TYPE AND SHIELDED TYPE BEARINGS ON THIS UNIT WILL OCCUR IF THE TYPING UNIT IS SUBJECTED TO VAPOR DEGREASING, DEGREASING AGENTS, SUBMERGED IN DETERGENT SOLUTIONS, OR SPRAYED OR WIPED WITH CLEANING SOLVENTS OF ANY KIND.

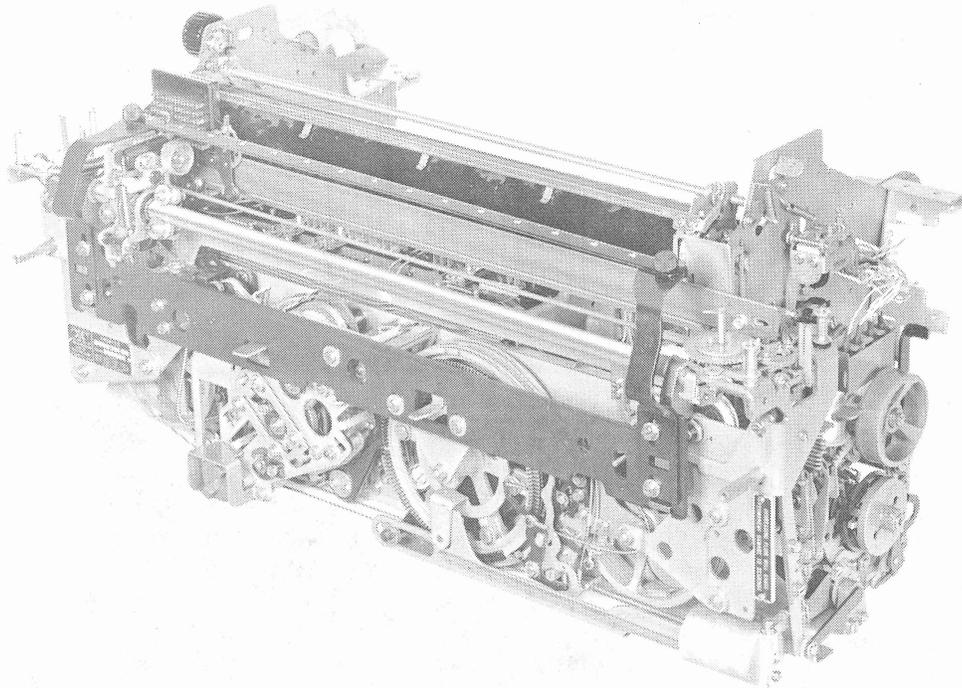
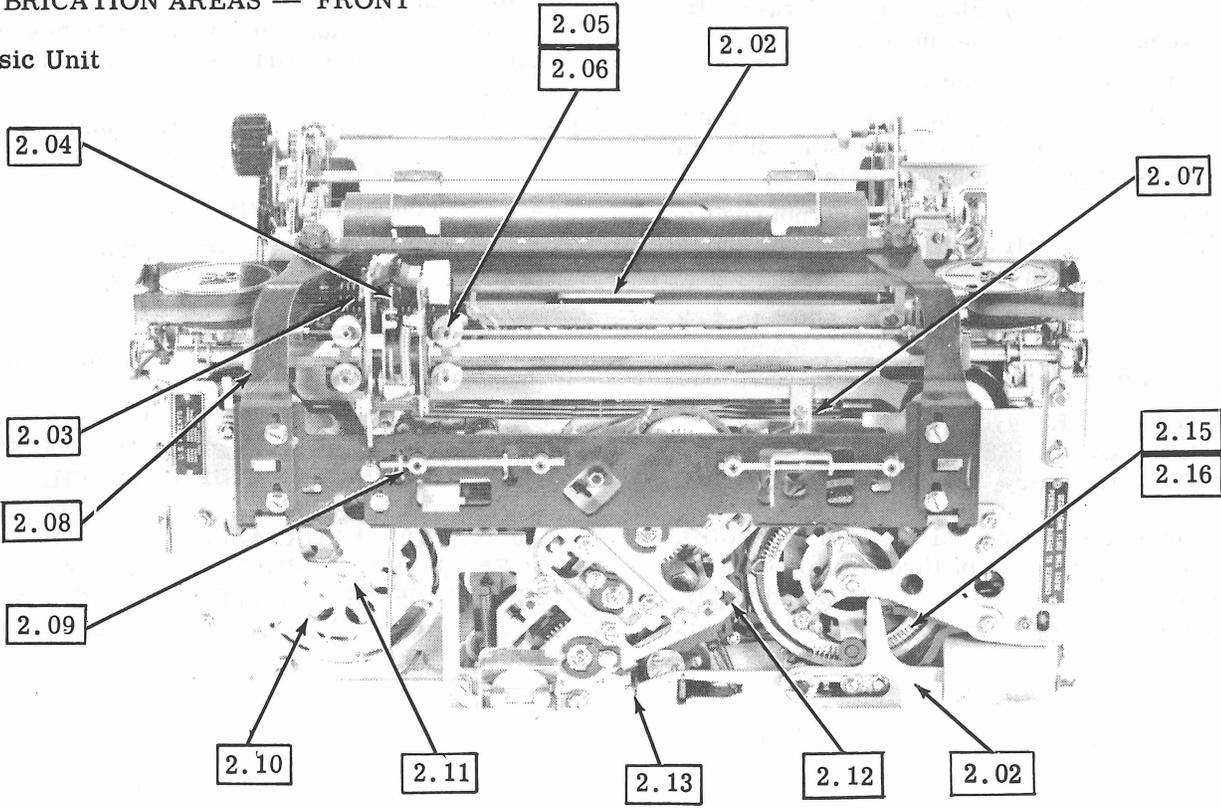


Figure 2 - 37 Wide Platen Typing Unit

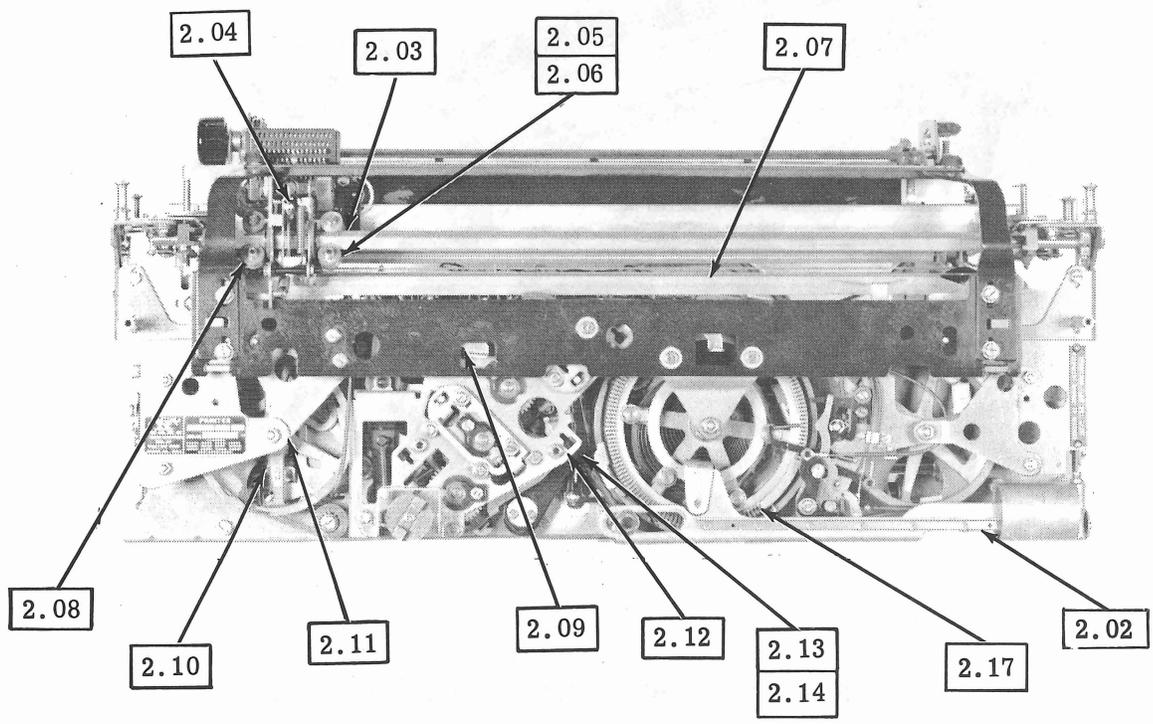
→ 2. LUBRICATION

LUBRICATION AREAS — FRONT

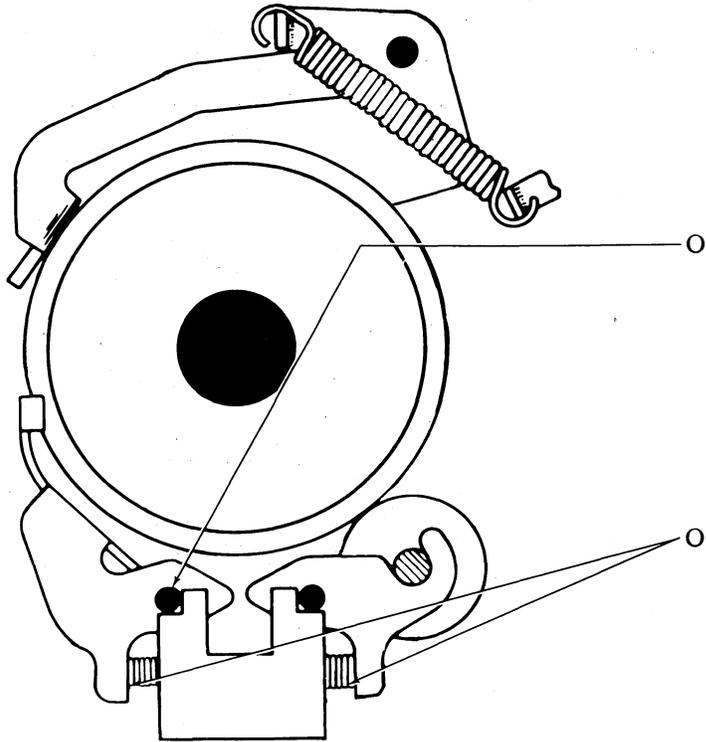
→ Basic Unit



→ Wide Platen Unit



2.01 Platen Pressure Bail (Friction Feed)



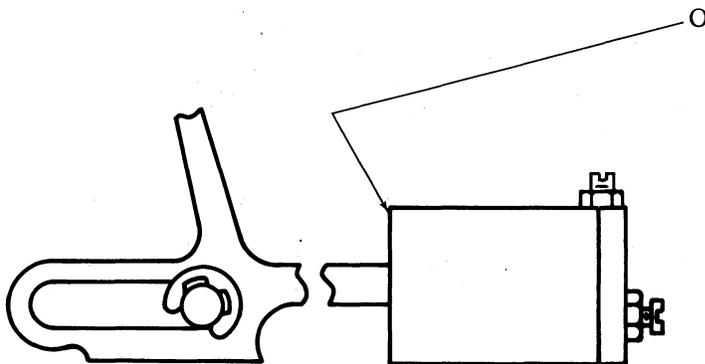
Thin Film on Engaging Surface

Pressure Bail

Thin Film on Engaging Surface

Compression Springs (4)

2.02 Dashpot Plunger

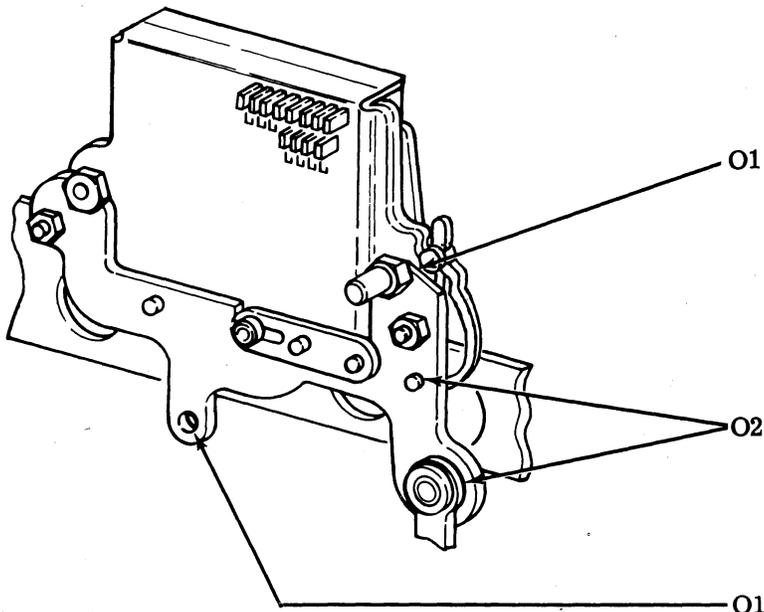


One Drop Each on Two Sides, Top, and Bottom (4 places)

Dashpot Plunger

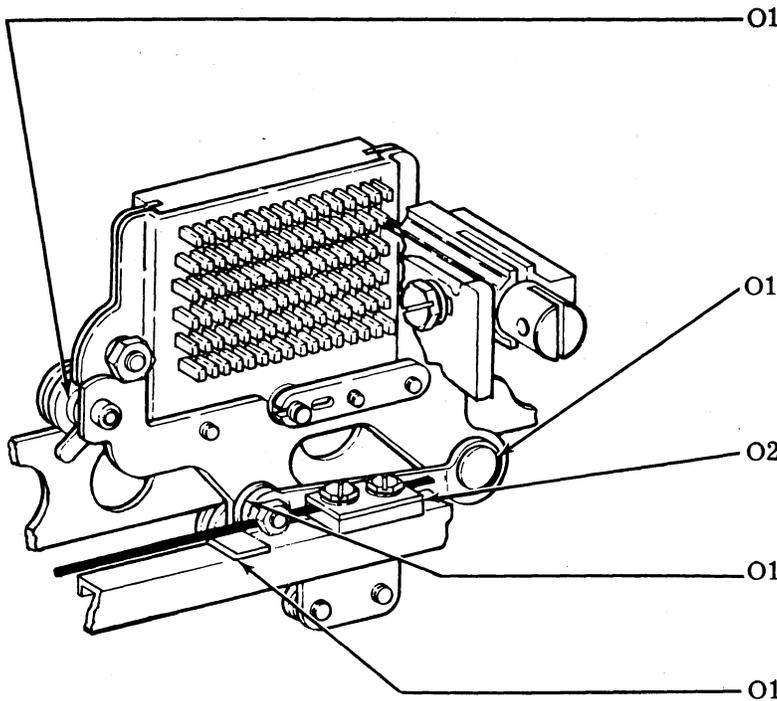
Note: If dashpot is removed, wipe plunger and bore with oil-soaked rag to provide a thin film of oil.

2.03 Typebox



(Left Front View)

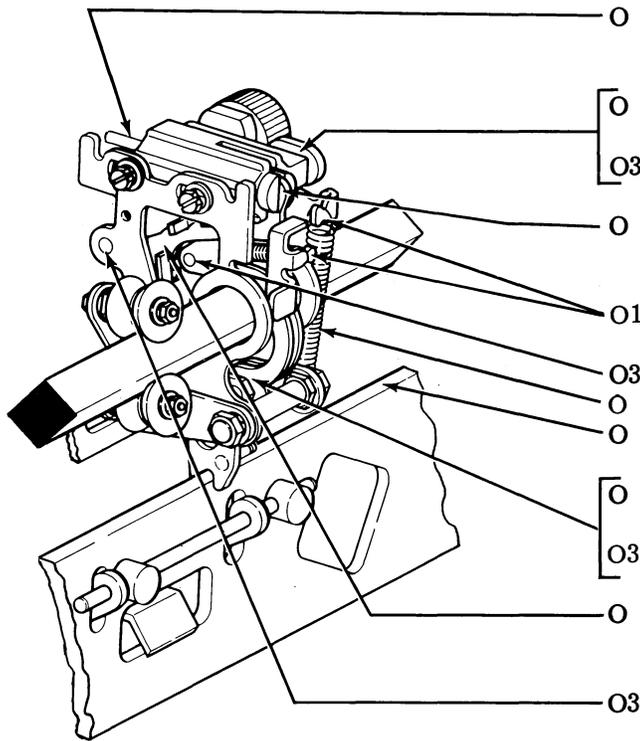
- O1 Contact Surface Typebox Carriage Latch
- O2 Pivot Typebox Carriage Latch
- O1 Bearing Roller



(Right Front View)

- O1 Bearing Rollers (Each End)
- O1 Pivot Point Typebox Carriage Link
- O2 Bearing Surface Oscillating Rail Guide Block
- O1 Pivot Point Sled
- O1 Bearing Surface Guideplate

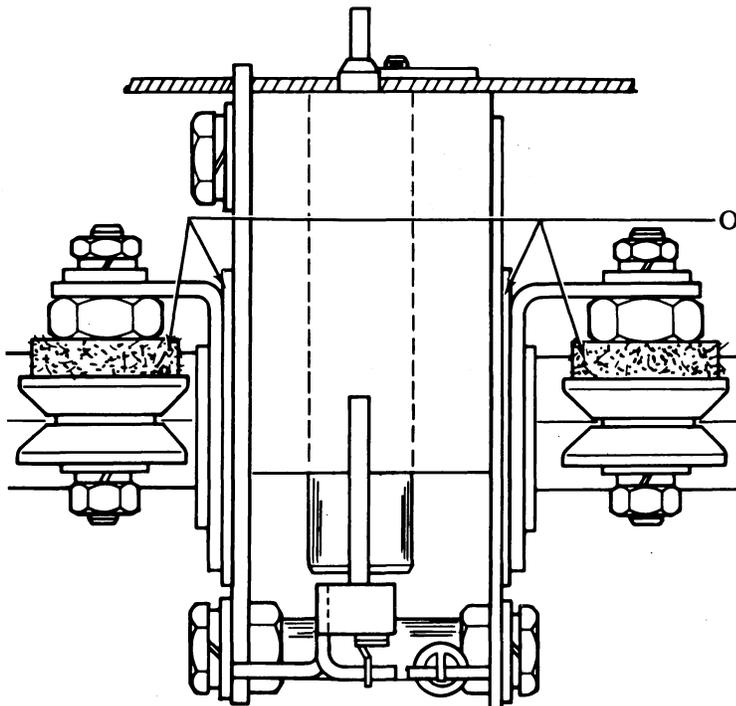
2.04 Print Hammer and Levers



(Left Front View)

- | | | |
|----|--------------------------------|--------------------|
| O | Thin Film on Engaging Surface | Plunger |
| O | Thin Film on Engaging Surface | Spring Tension |
| O3 | Pivot | Lever |
| O | Thin Film on Engaging Surface | Print Hammer |
| O1 | Hooks (Each End) | Springs (2) |
| O3 | Pivot | Print Hammer |
| O | Saturate | Felt Wick |
| O | Thin Film | Rail |
| O | Thin Film on Engaging Surfaces | Accelerating Lever |
| O3 | Pivot | |
| O | Thin Film on Engaging Surface | Latchlever |
| O3 | Pivot | Latchlever |

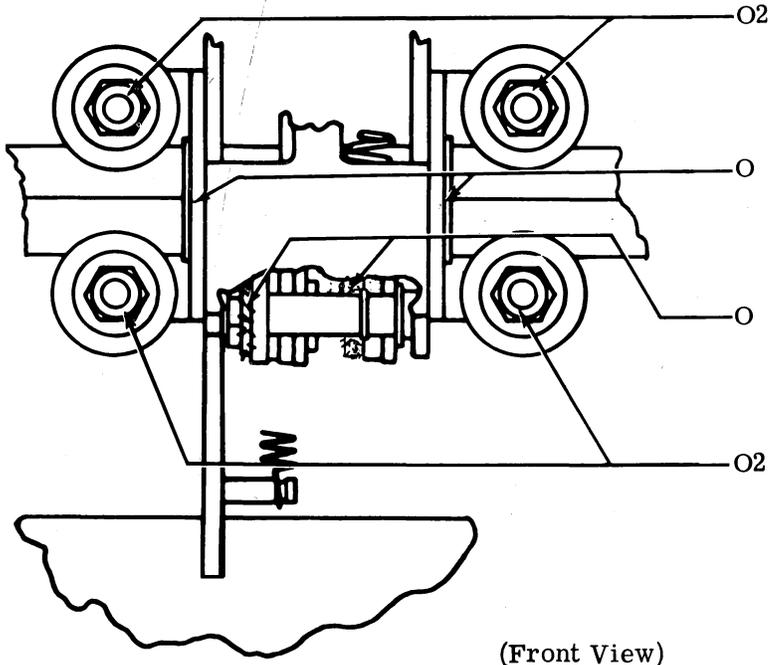
2.05 Print Hammer Carriage



(Top View)

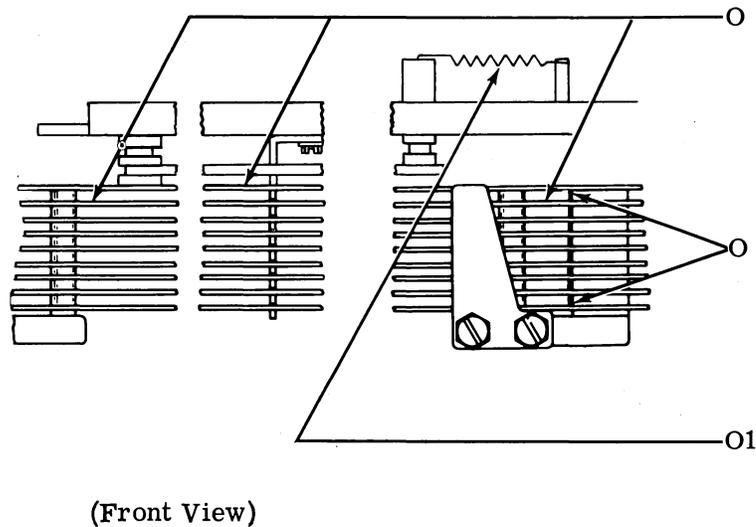
- | | | |
|---|----------------------|--------|
| O | Saturate Felt Oilers | Roller |
|---|----------------------|--------|

2.06 Print Hammer Carriage (continued)



- | | | |
|----|--------------------------------|----------------------------|
| O2 | Bearings | Rollers (2) |
| O | Thin Film on Engaging Surfaces | Carriage Frame and Bracket |
| O | Saturate Felt Oilers | Print Hammer Shaft |
| O2 | Bearings | Rollers (2) |

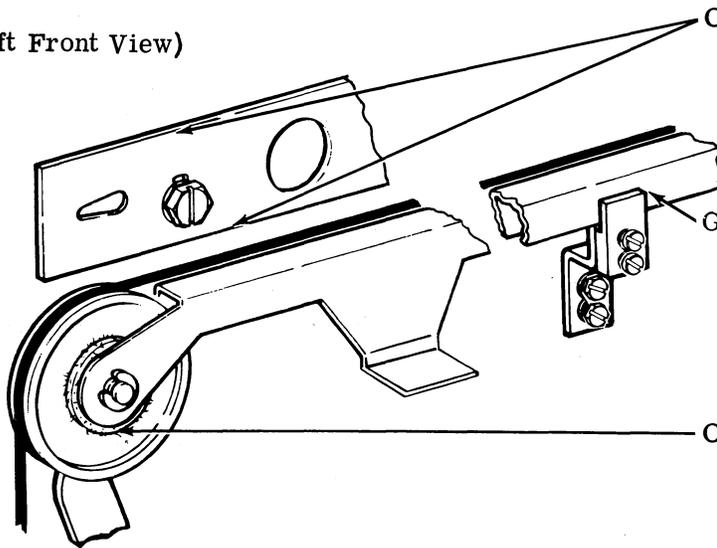
2.07 Codebars



- | | | |
|----|---|---------------|
| O | Thin Film on Guide Slots (Right, Center, and Left — 9 Bars) | Codebars |
| O | Engaging Surfaces (Each End of Codebar Assembly) | Codebar Stops |
| O1 | Hooks (Each End) | Spring |

2.08 Oscillating Rail

(Left Front View)



Thin Film on Engaging Surfaces

Oscillating Rail and Typebox Rail

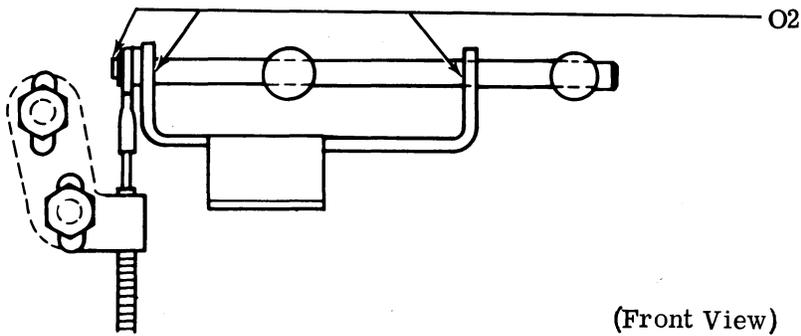
Thin Film on Bearing Surfaces

Oscillating Rail Guide Block

Saturate Felt Oilers (2)

Pulleys (Left and Right Sides)

2.09 Local Line Feed Lever Basic Unit

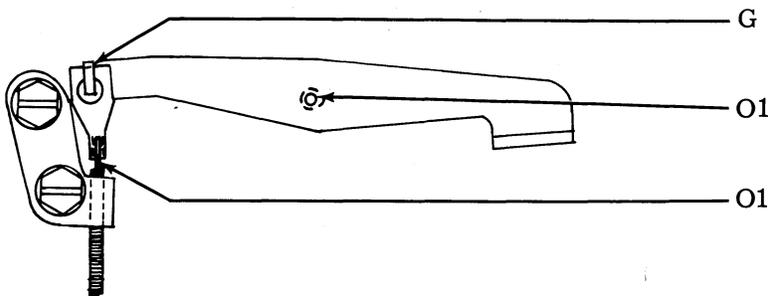


(Front View)

Pivot Points

Local Line Feed Lever

Wide Platen Unit



Camming Surface

Local Line Feed Cable

Pivot Point

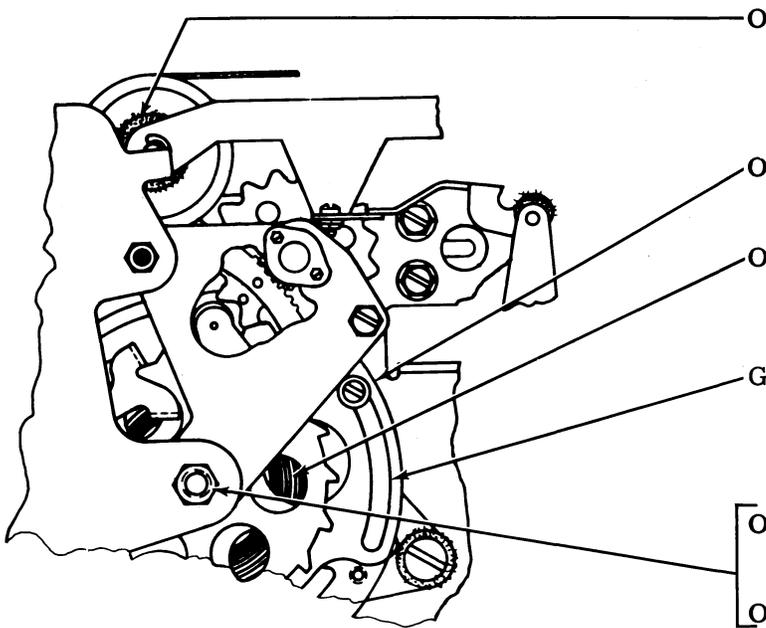
Local Line Feed Lever

Sliding Surface

Cable Shielding

2.10 Spring Drum

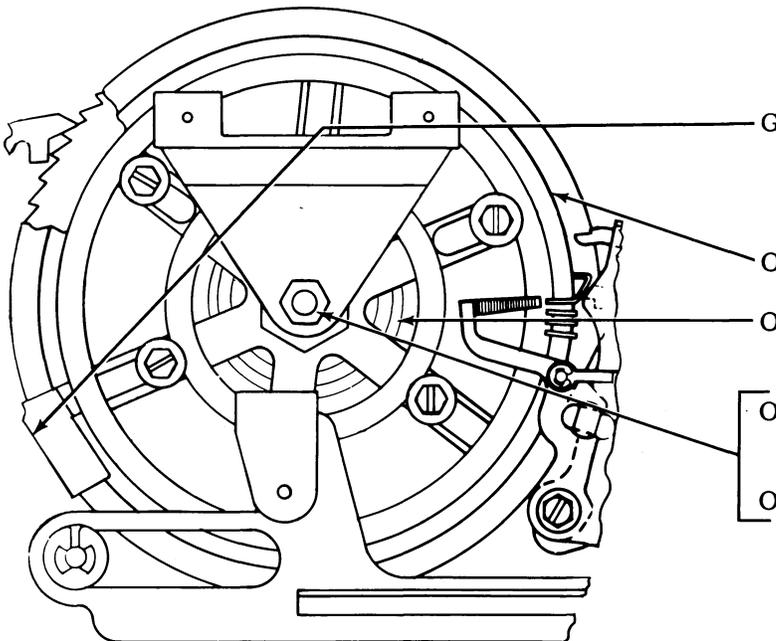
Basic Unit



(Front View)

- | | | |
|----|------------------------------|---------------------------|
| O | Saturate Felt Oilers | Left and Right Pulleys |
| O1 | Cable Grooves | Spring Drum |
| O | Thin Film Between Layers | Carriage Return Spring |
| G | Thin Coat on Camming Surface | Margin Indicator Cam Disc |
| O3 | Bearing (Outer and Inner) | Spring Drum Shaft |
| O | | |

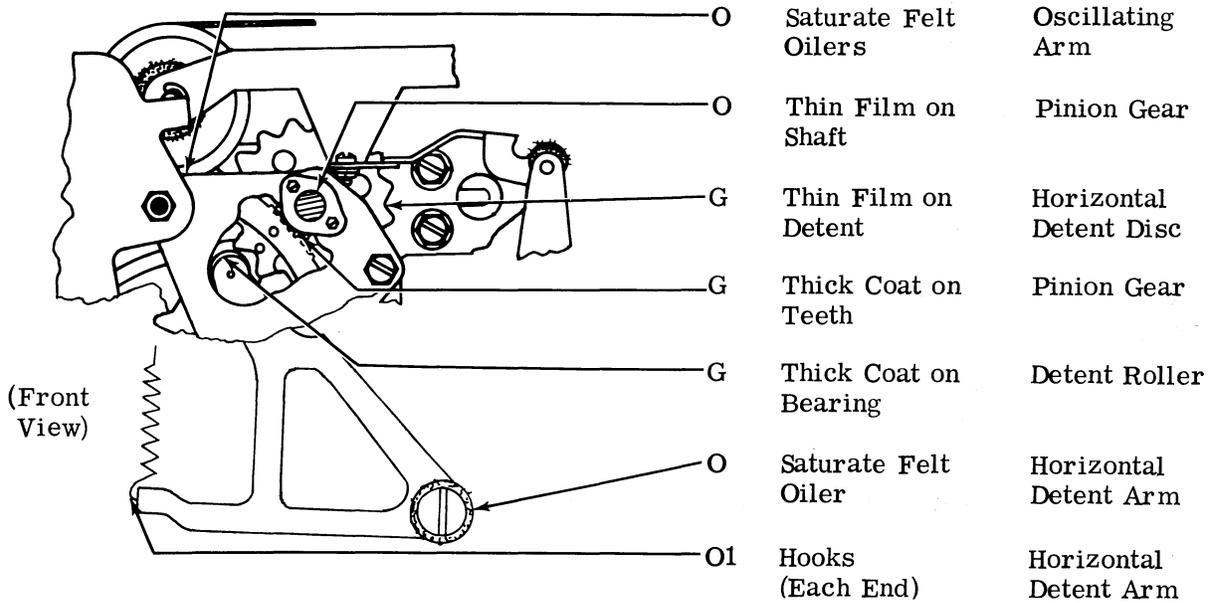
Wide Platen Unit



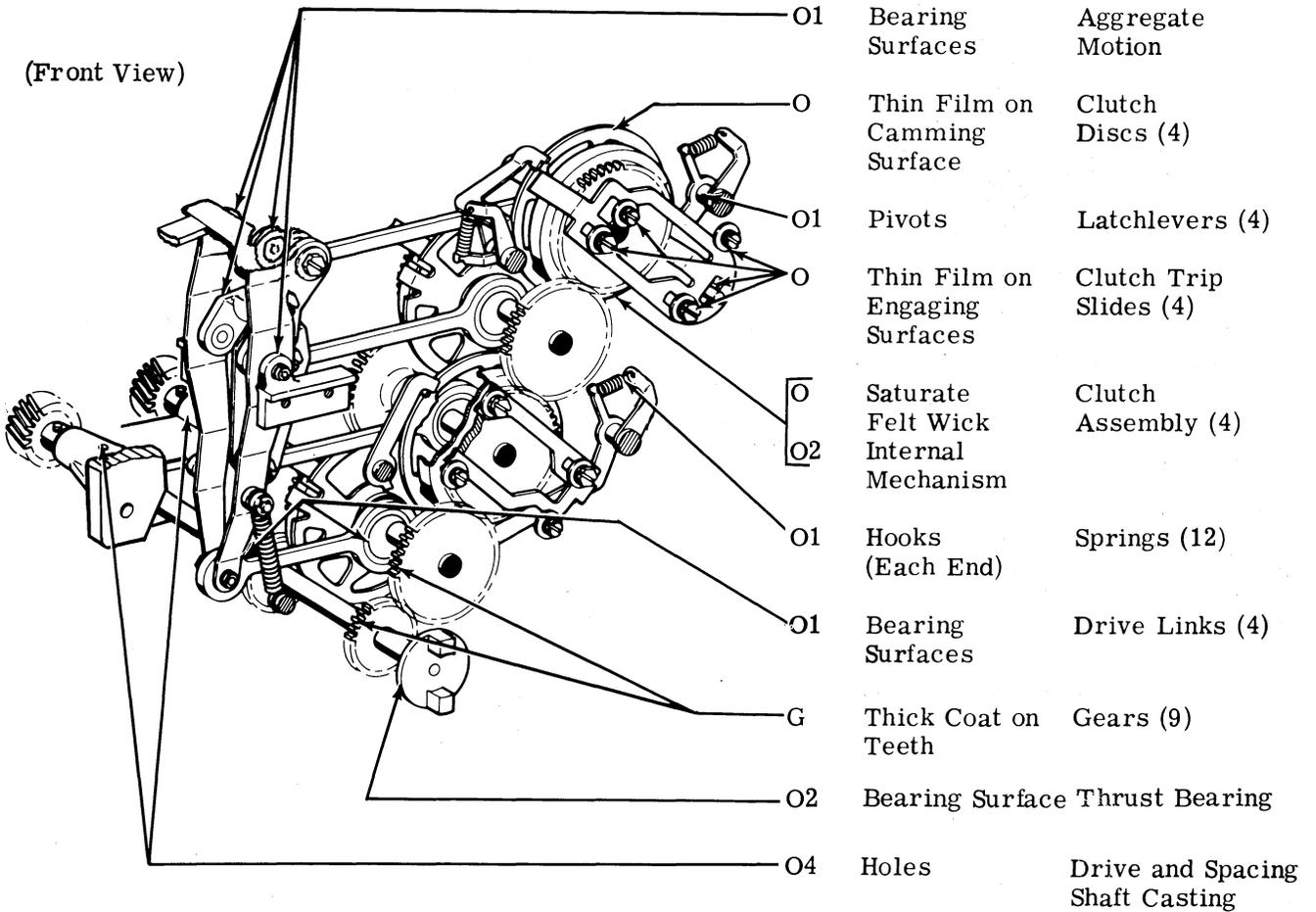
- | | | |
|----|------------------------------|---------------------------|
| G | Thin Coat on Camming Surface | Margin Indicator Cam Disc |
| O1 | Cable Grooves | Spring Drum |
| O | Thin Film Between Layers | Carriage Return Spring |
| O3 | Bearing (Outer and Inner) | Spring Drum Shaft |
| O | | |

2.11 Horizontal Detent

Note: This mechanism is located behind the spring drum on the basic unit. On the wide platen unit it is located behind the leftmost cable drum.

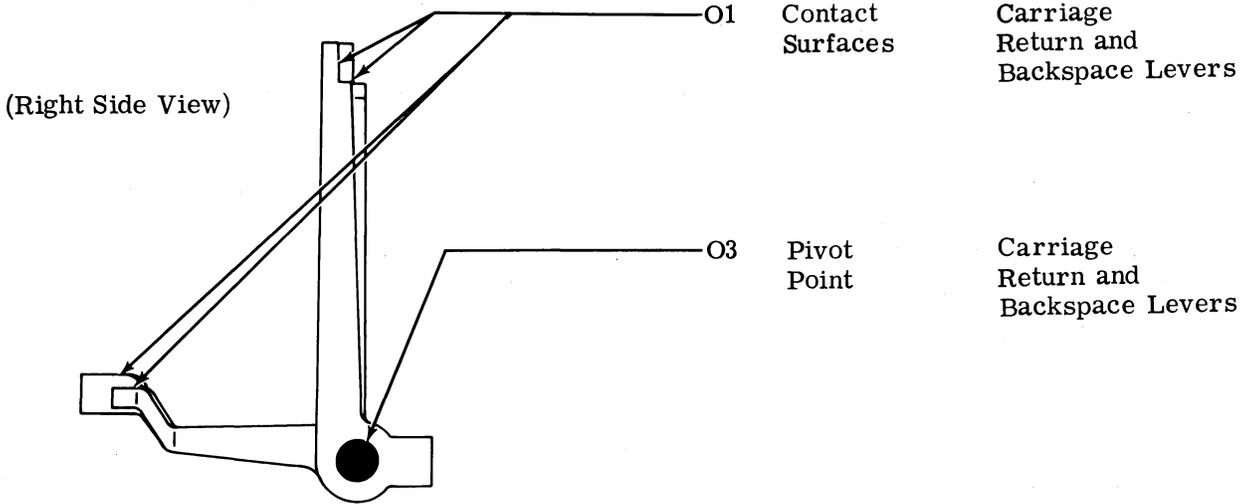


2.12 Horizontal Clutches, Gears, Levers, and Links



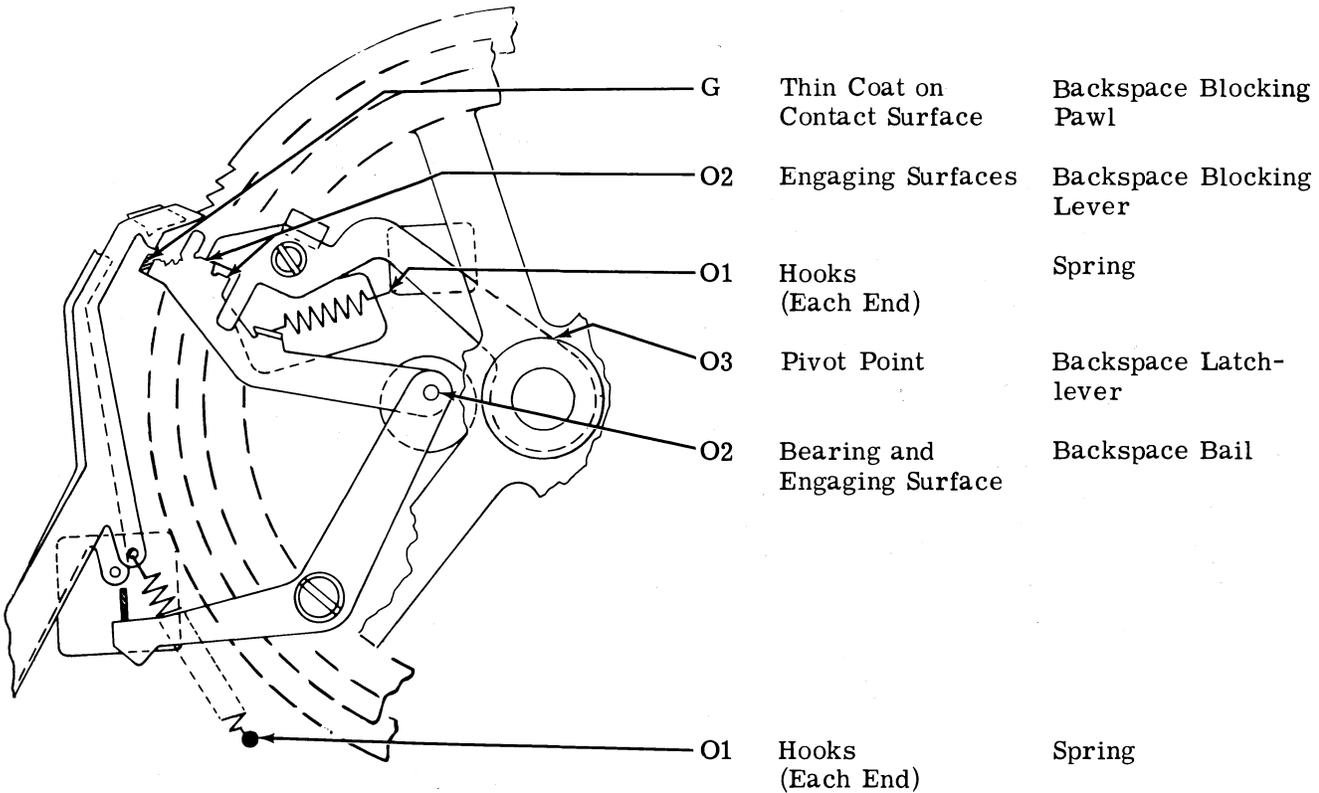
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2.13 Carriage Return and Backspace Levers



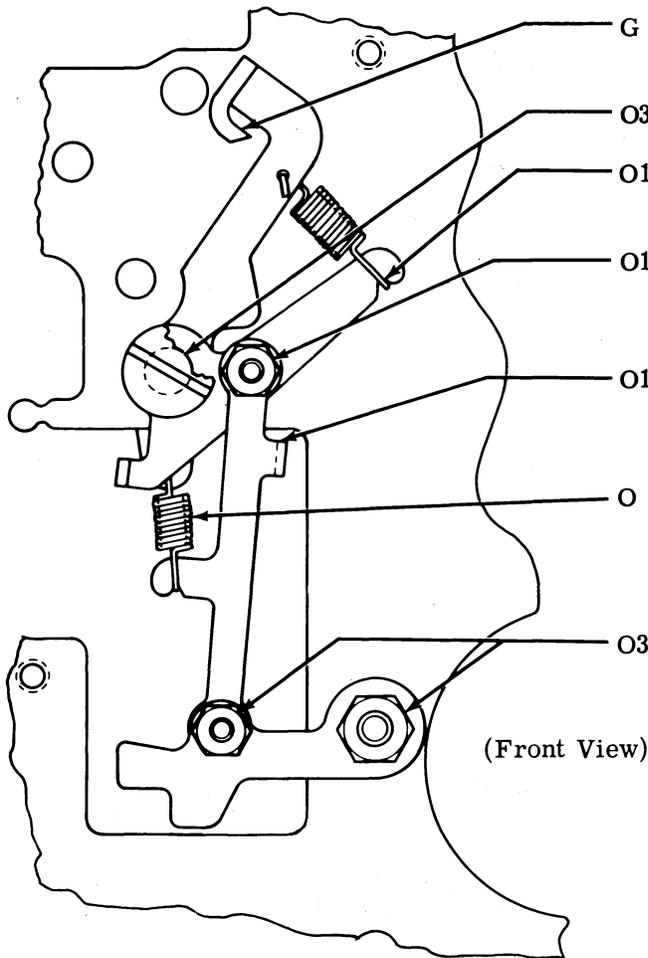
2.14 Backspace Bail, Lever, and Pawl (Located Behind Spacing Drum)

Wide Platen Unit



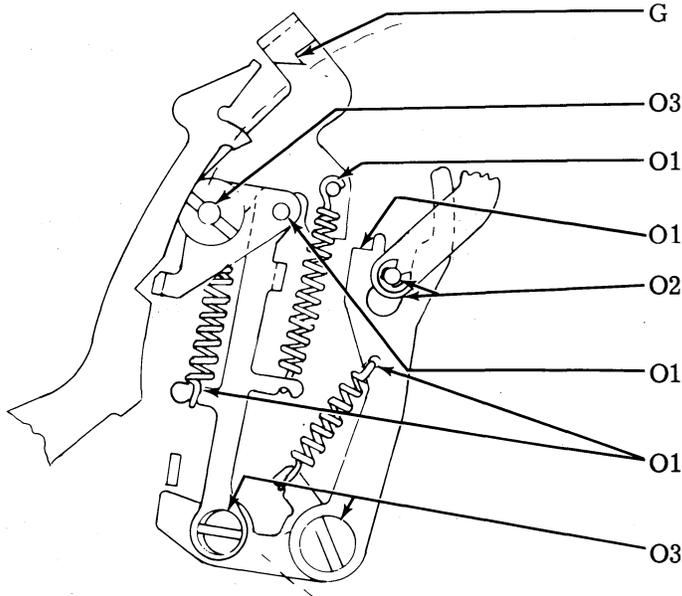
2.15 Backspace Bail, Lever, and Pawl (Located Behind Spacing Drum — continued)

Basic Unit (Early Design)



- | | | |
|----|------------------------------|-------------------------|
| G | Thin Coat on Contact Surface | Backspace Blocking Pawl |
| O3 | Pivot | Backspace Bail |
| O1 | Hooks (Each End) | Spring |
| O1 | Bearing and Engaging Surface | Backspace Bail and Link |
| O1 | Contact Surface | Link |
| O | Saturate Wick | Spring |
| O3 | Pivots | Intermediate Lever |

Basic Unit (Late Design)

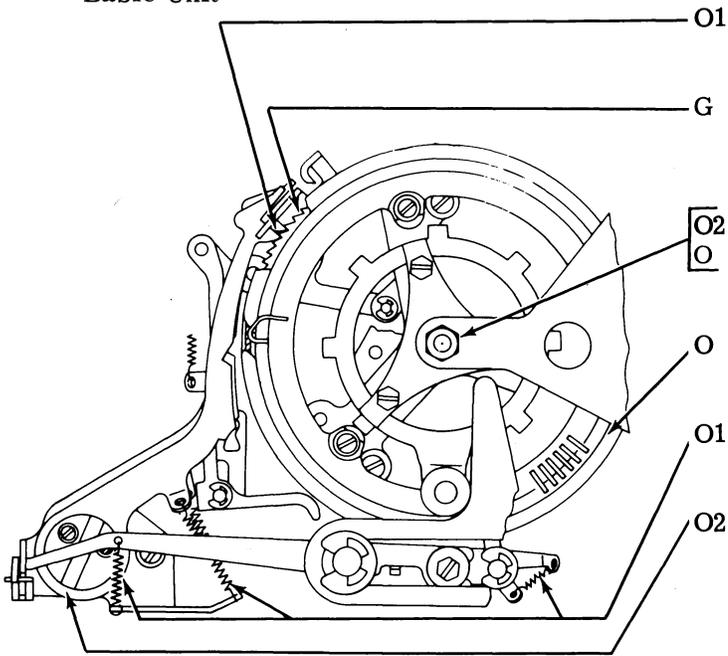


- | | | |
|----|------------------------------|-------------------------|
| G | Thin Coat on Contact Surface | Backspace Blocking Pawl |
| O3 | Pivot Point | Backspace Bail |
| O1 | Hooks (Each End) | Spring |
| O1 | Engaging Surfaces | Intermediate Lever |
| O2 | Bearing and Engaging Surface | Backspace Bail Link |
| O1 | Bearing and Engaging Surface | Backspace Bail and Link |
| O1 | Hooks (Each End) | Spring (2) |
| O3 | Pivots | Intermediate Lever |

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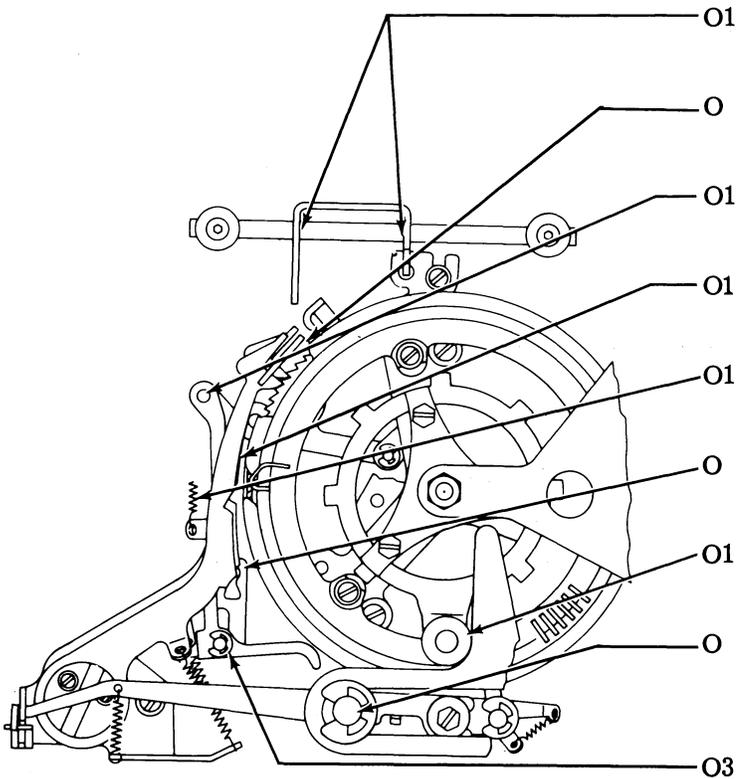
2.16 Spacing Drum

Basic Unit



(Front View)

- | | | |
|----|---------------------------------------|-----------------------|
| O1 | Engaging Surface | Spacing Feed Pawls |
| G | Thin Coat on Teeth | Ratchet |
| O2 | Pivot Point Saturate Felt Oiler | Spacing Drum Shaft |
| O | Thin Film on Cable Grooves | Spacing Drum |
| O1 | Hooks (Each End) | Springs |
| O2 | Pawls | Spacing Eccentric |

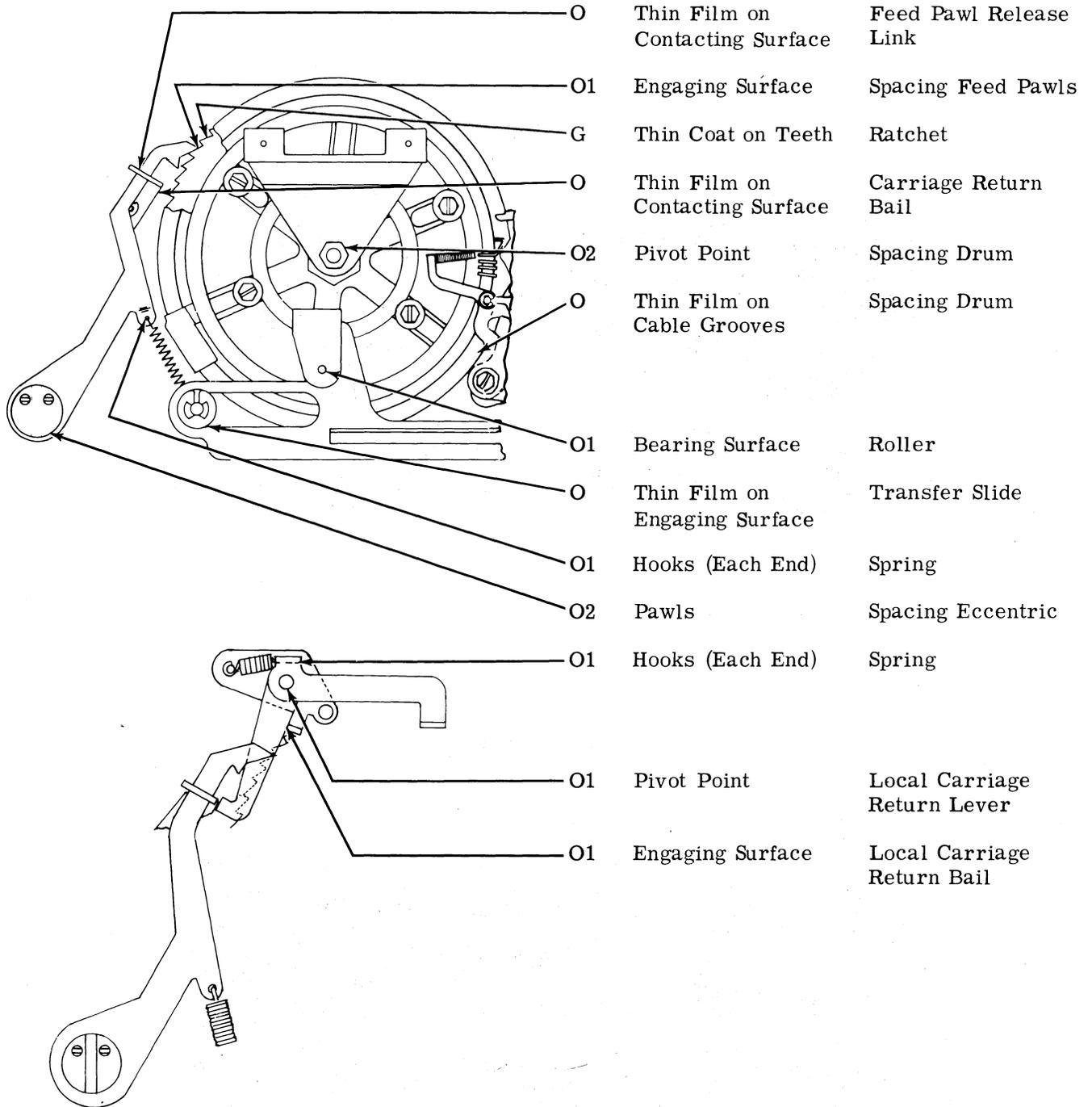


(Front View)

- | | | |
|----|------------------------------------|--------------------------------|
| O1 | Pivot Points | Local Carriage Return Lever |
| O | Thin Film on Contacting Surface | Feed Pawl, Release Link |
| O1 | Pivot Points | Feed Pawl, Release Link |
| O1 | Engaging Surfaces | Feed Pawl Release Link |
| O1 | Hooks (Each End) | Spring |
| O | Thin Film on Contacting Surface | Carriage Return Latch Bail |
| O1 | Bearing Surface | Roller |
| O | Thin Film on Engaging Surface | Transfer Slide |
| O3 | Pivot Point | Carriage Return Latch Bail |

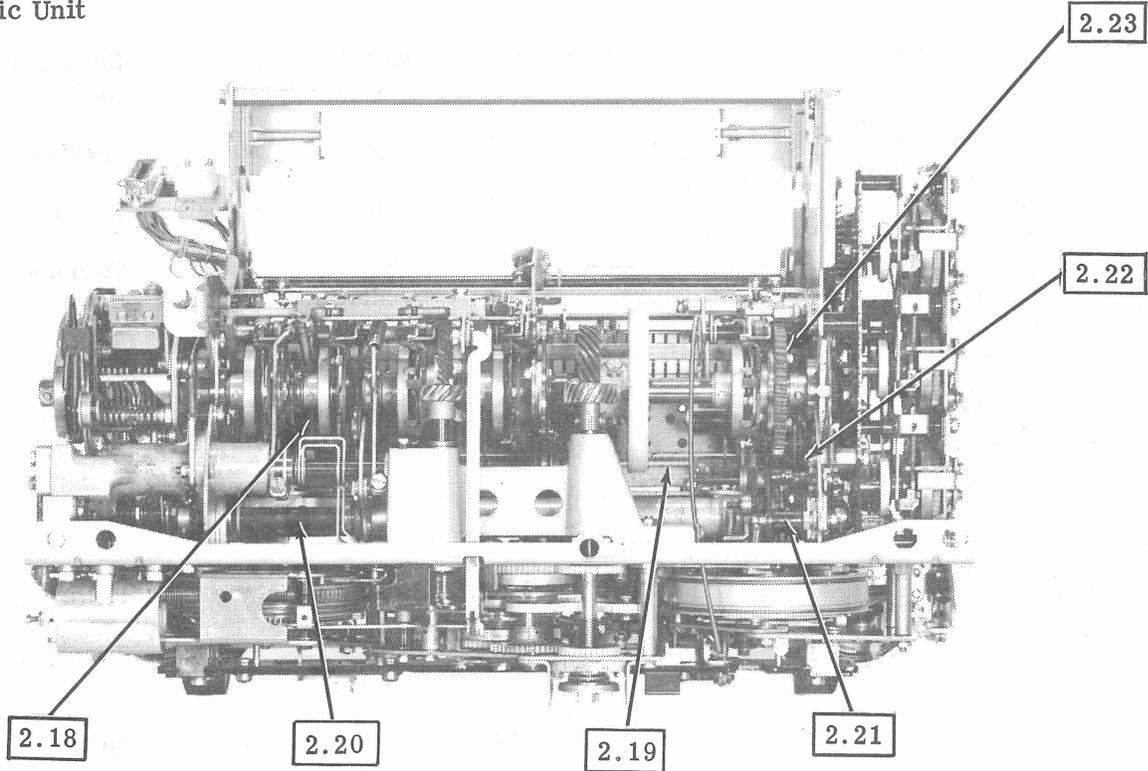
2.17 Spacing Drum (continued)

Wide Platen Unit

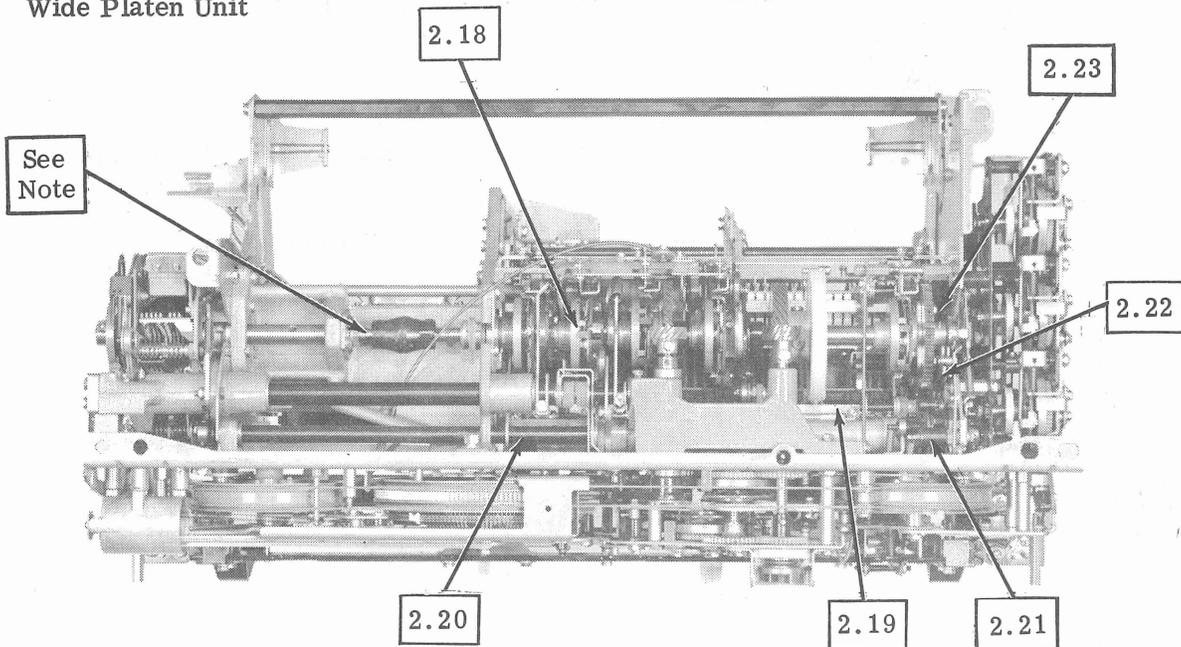


LUBRICATION AREAS — BOTTOM

Basic Unit

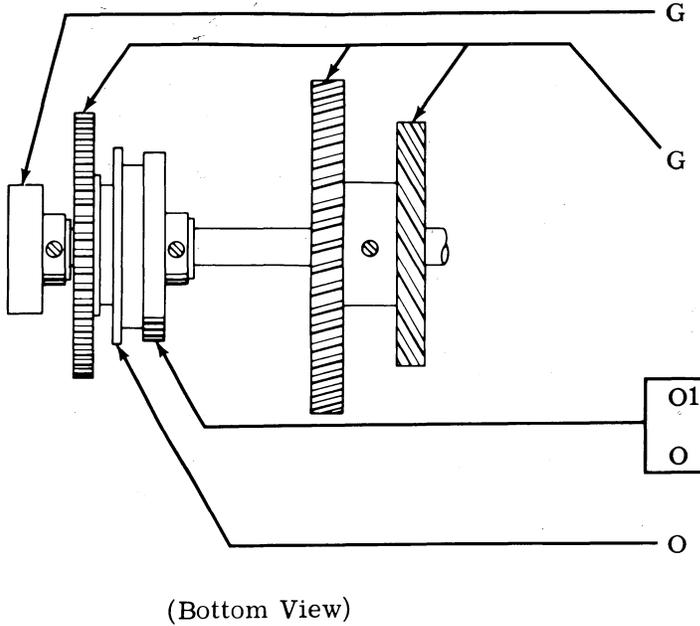


Wide Platen Unit

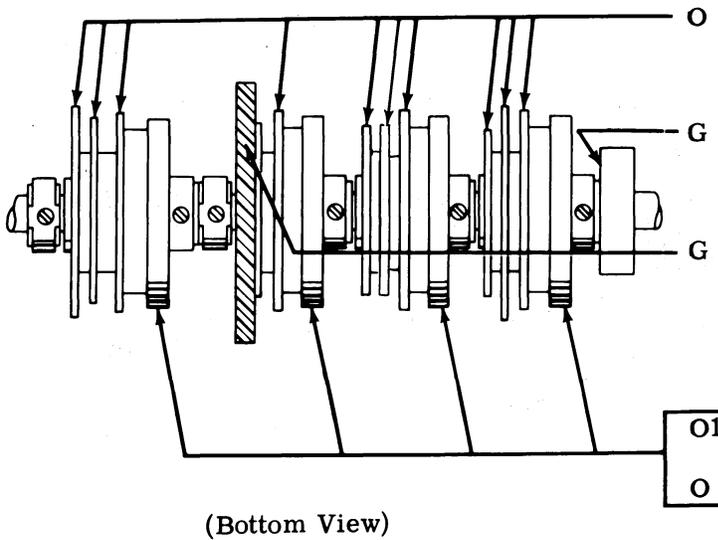


Note: Do not remove main shaft coupling during general lubrication of the unit. If the coupling is removed from the main shaft during disassembly or reassembly, or repair, a thin film of grease must be applied to the machined flat areas on the main shaft prior to reassembly of the coupling to the main shaft.

2.18 Main Shaft Clutches and Gears



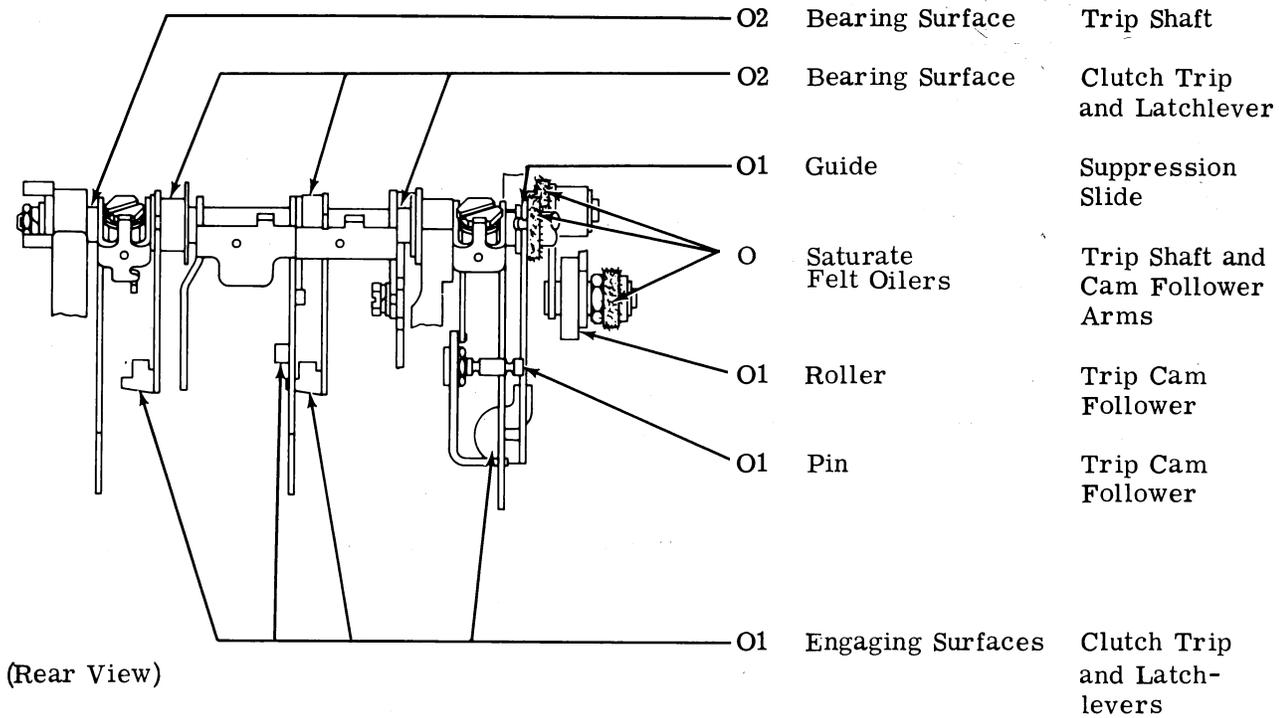
- G Pack Ball Bearing Main Shaft Bearing
- Thick Coat on Teeth Main Shaft Gears (3)
- O1 Internal Mechanism Clutch Assembly
- O Saturate Felt Wick
- O Thin Film on Camming Surface Clutch Disc



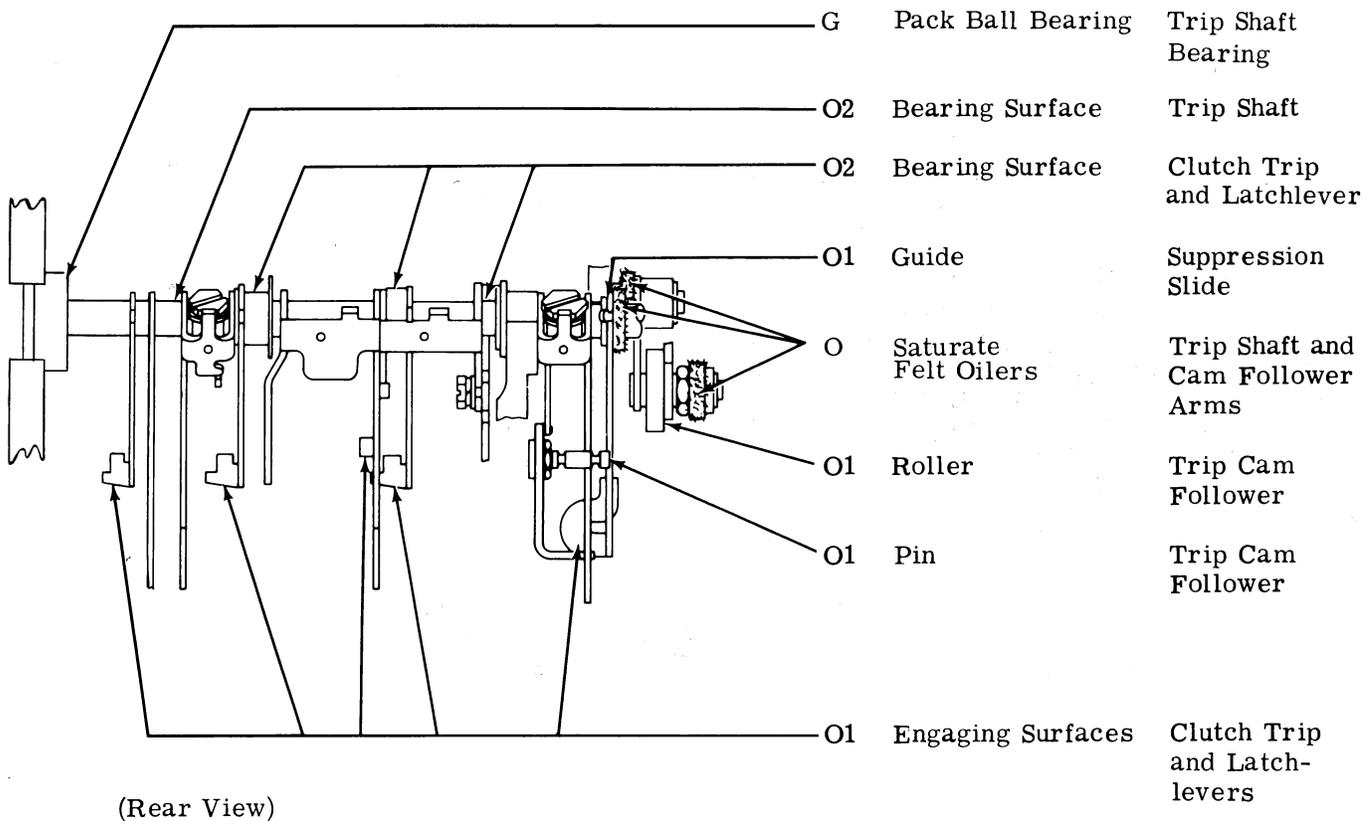
- O Thin Film on Camming Surfaces Clutch Discs and Eccentric Cams
- G Pack Ball Bearing Main Shaft Bearing
- G Thick Coat on Teeth Main Shaft Gear
- O1 Internal Mechanism Clutch Assemblies
- O Saturate Felt Wick

2.19 Trip Shaft Cam and Levers

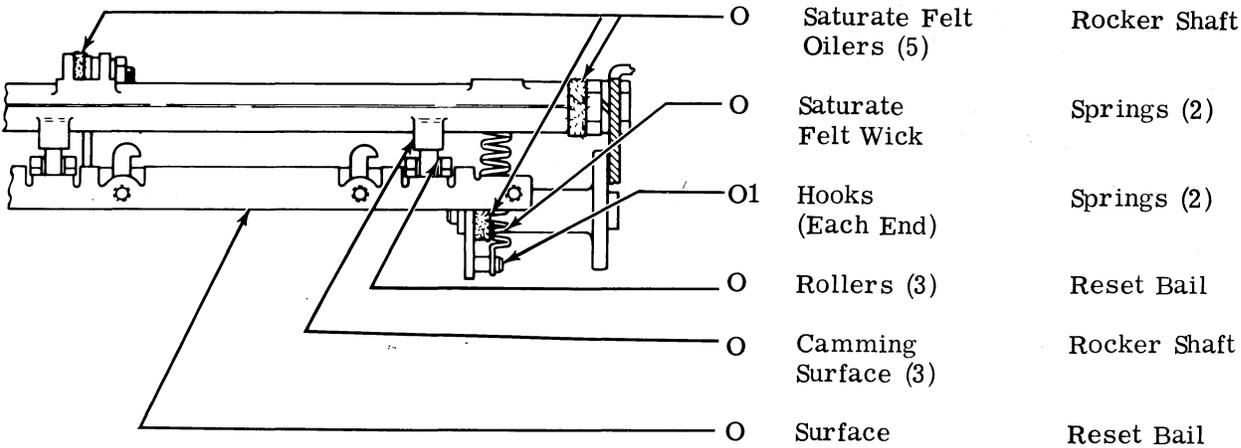
Basic Unit



Wide Platen Unit

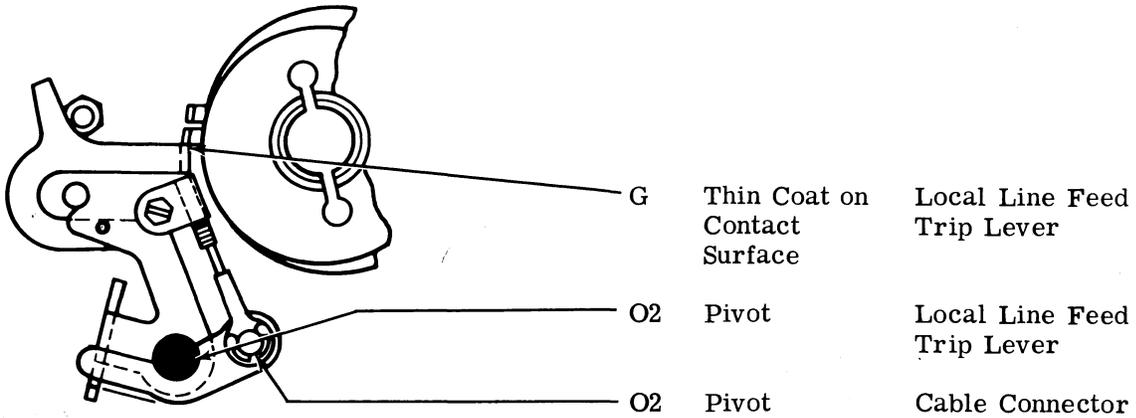


2.20 Reset Bail and Shaft
(Behind Front Plate)



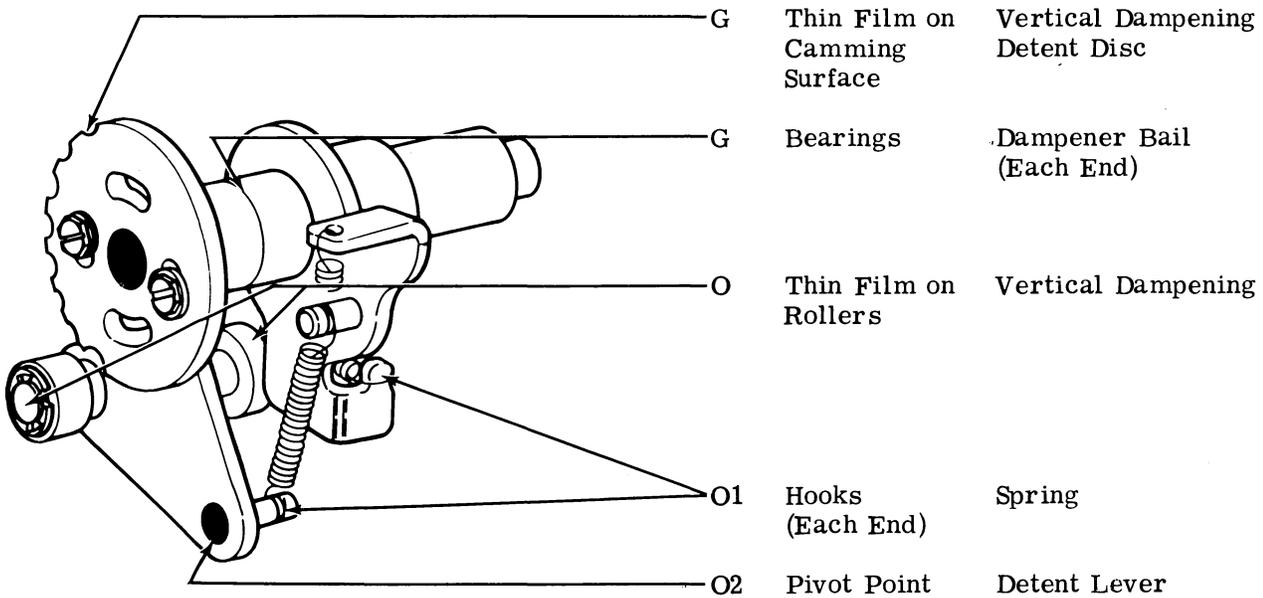
(Top View)

2.21 Local Line Feed Trip Lever



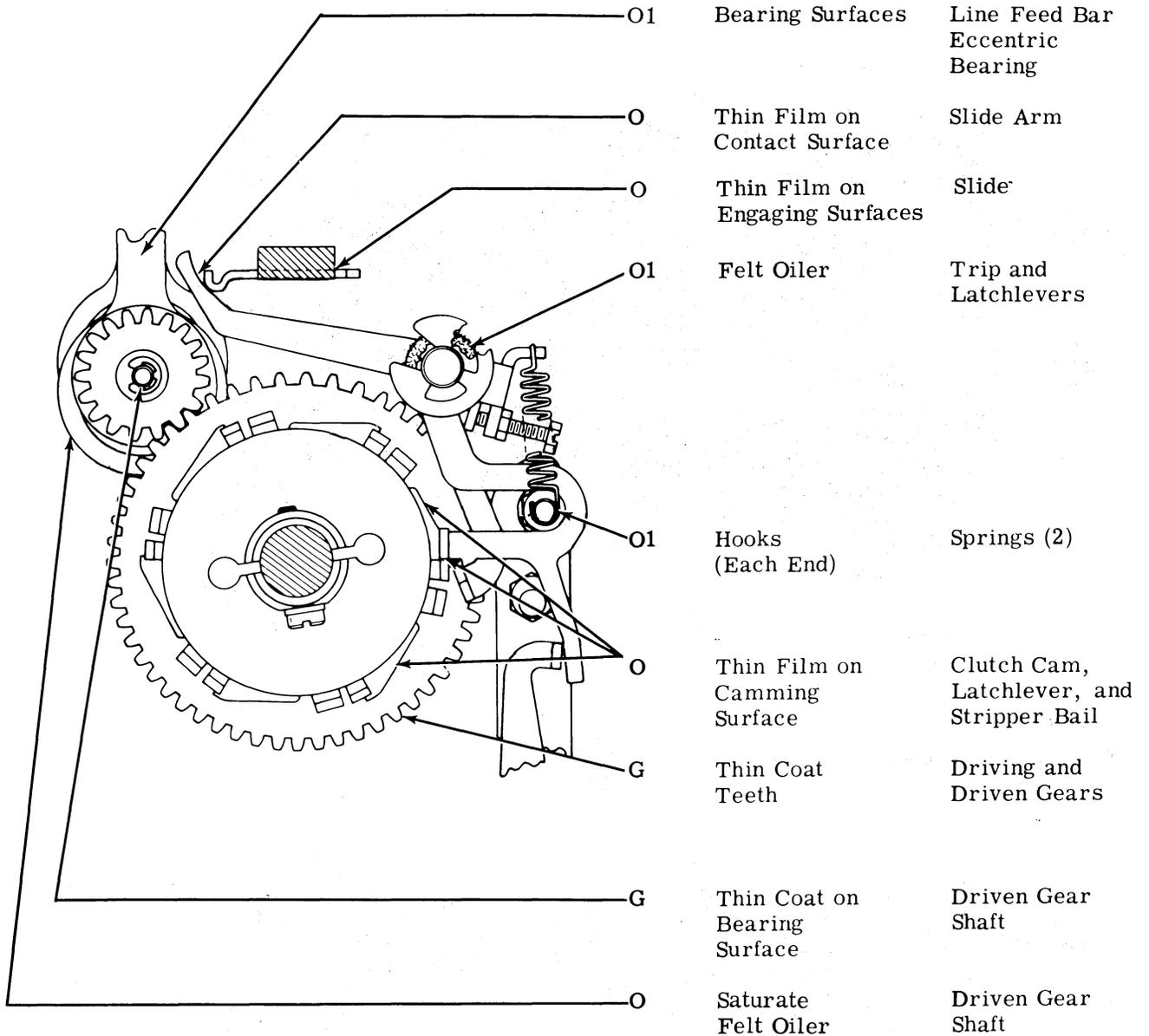
(Bottom — Left Side View)

2.22 Vertical Detent



(Bottom — Left Side View)

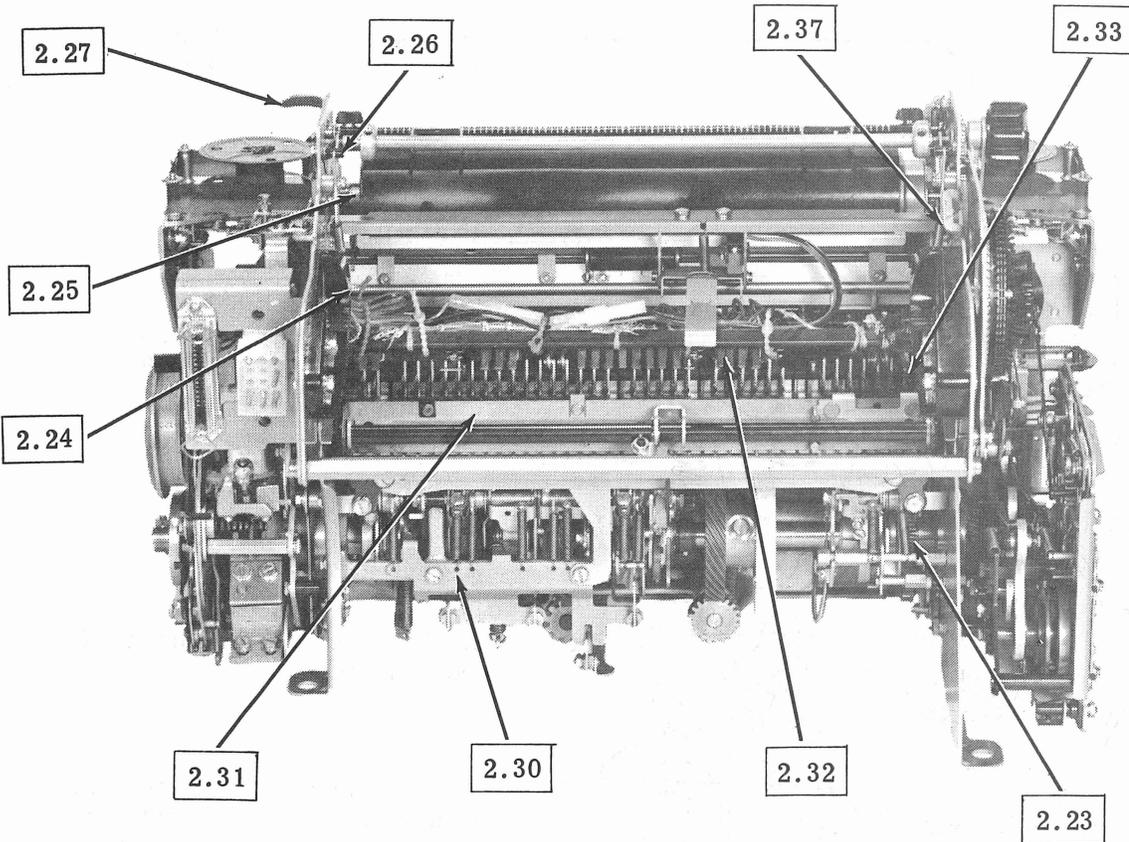
2.23 Line Feed Bail, Levers, and Gears



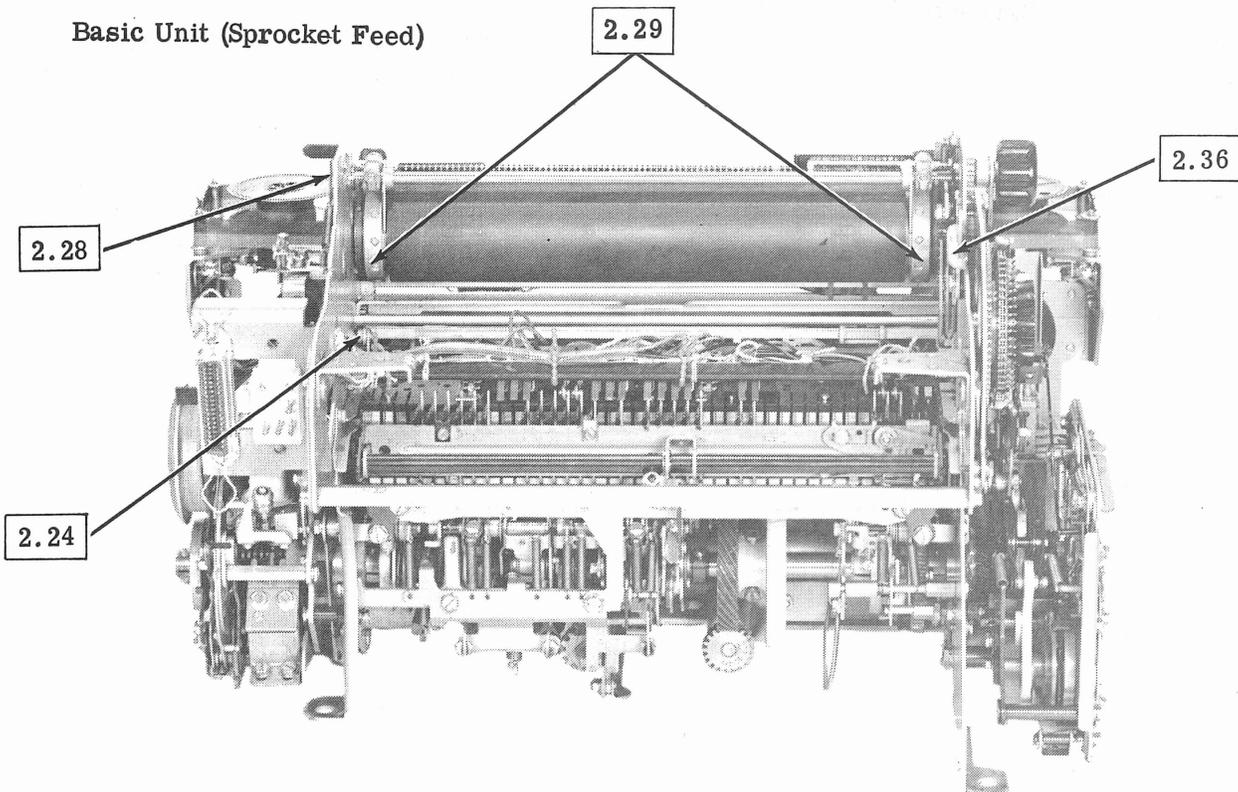
(Right Side View)

LUBRICATION AREAS — REAR

Basic Unit (Friction Feed)

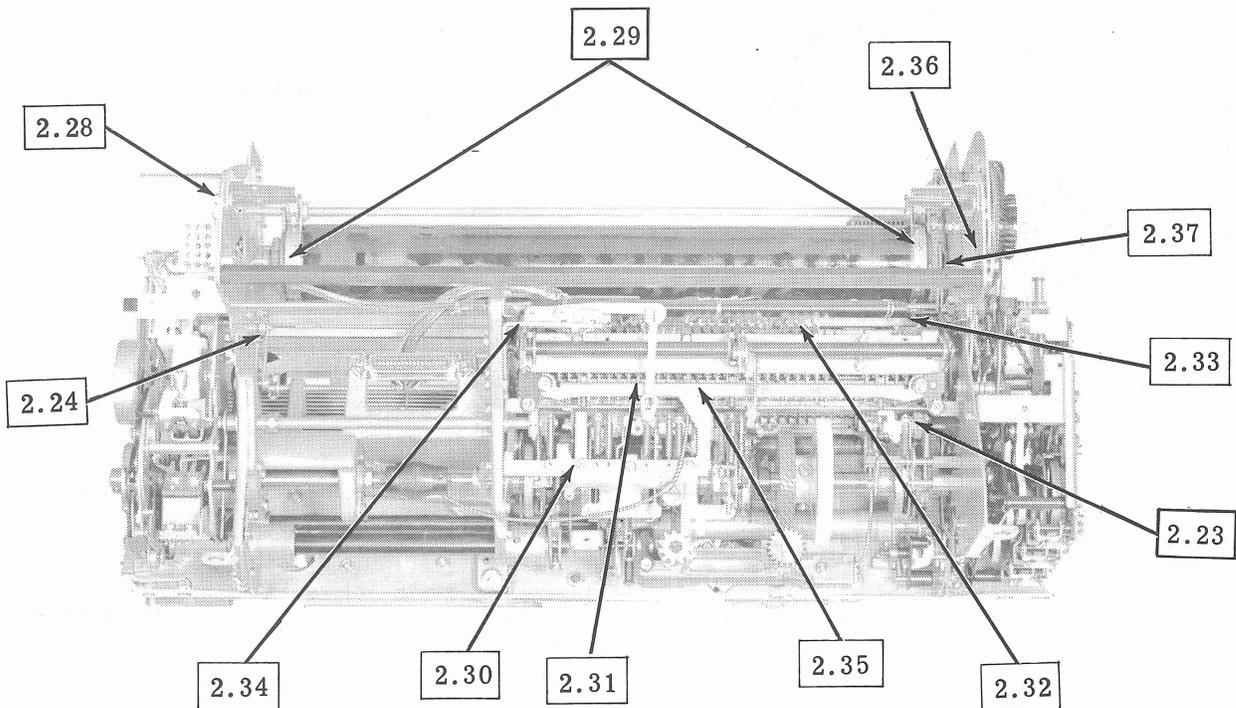


Basic Unit (Sprocket Feed)

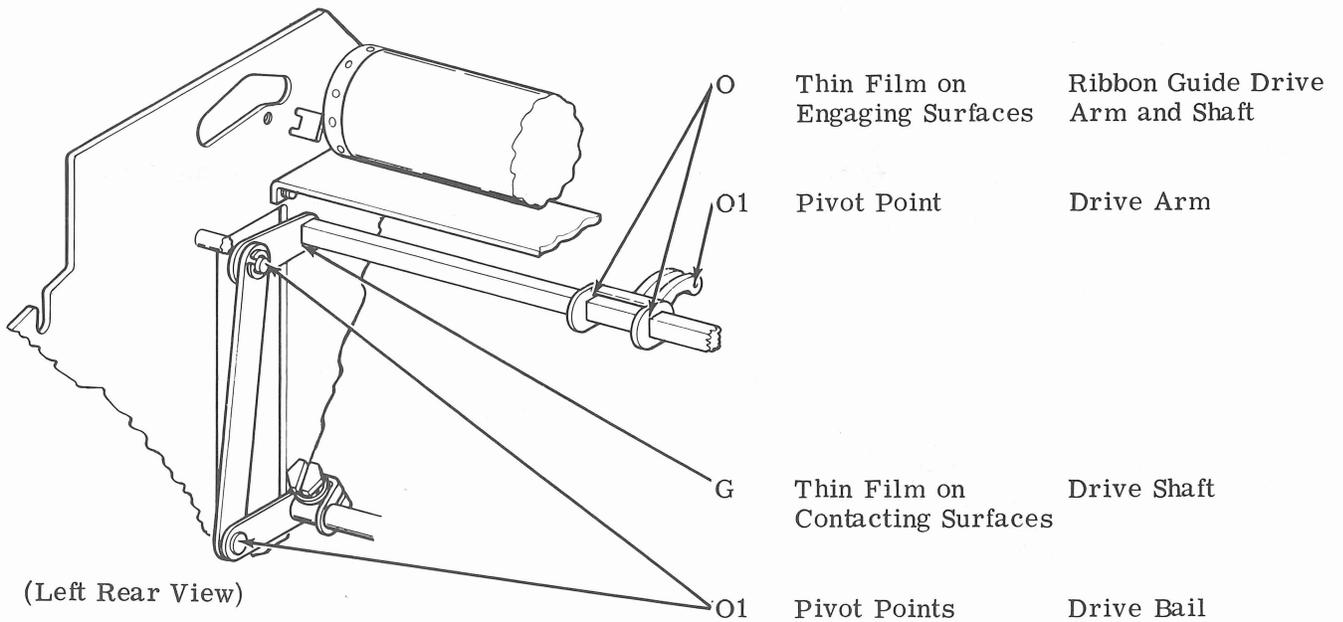


LUBRICATION AREAS — REAR (continued)

Wide Platen Unit (Sprocket Feed)

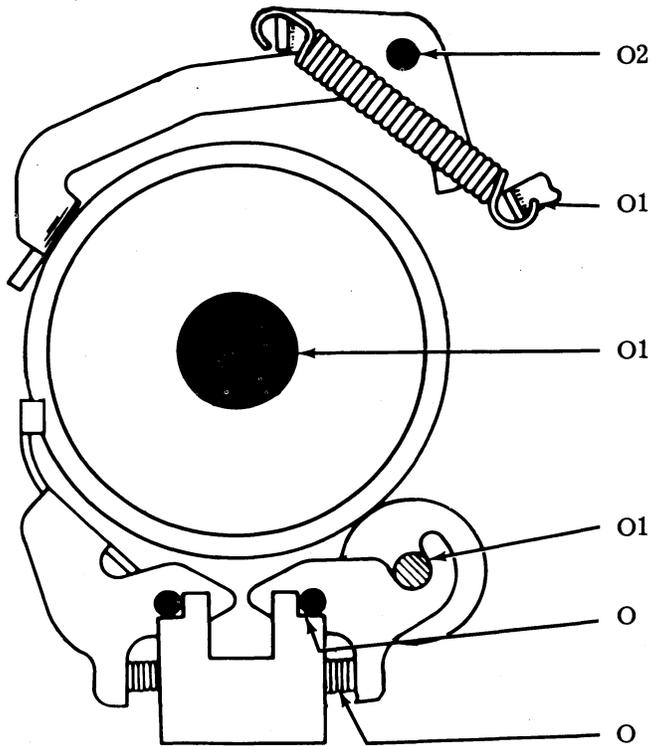


2.24 Ribbon Guide Drive Shaft



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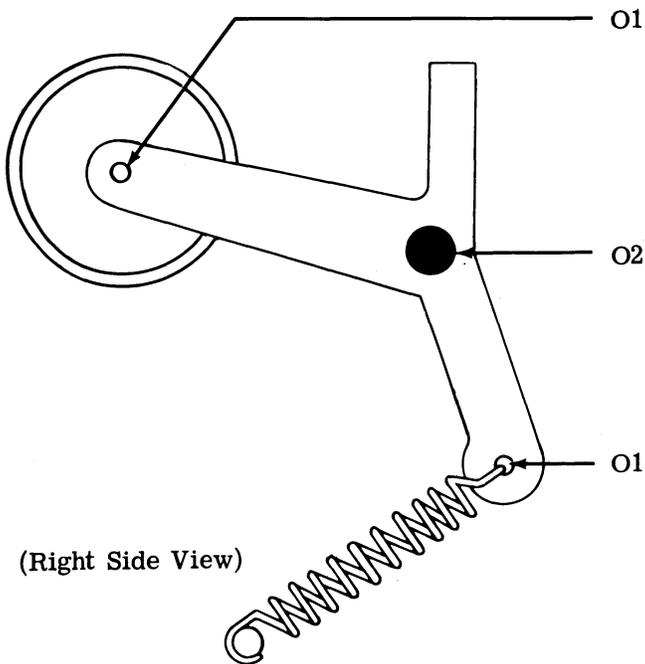
2.25 Platen Shaft and Rollers (Friction Feed)



(Right Side View)

- | | | |
|----|--------------------------------|--|
| O2 | Pivots | Paper Finger Shaft |
| O1 | Hooks (Each End) | Springs (2) |
| O1 | Bearing Surfaces (Each End) | Platen Shaft |
| O1 | Pivots | Pressure Rollers (Wipe Off Excess Oil) |
| O | Thin Film on Engaging Surfaces | Pressure Rollers |
| O | Thin Film on Engaging Surface | Compression Springs (2) |

2.26 Paper Straightener (Friction Feed)

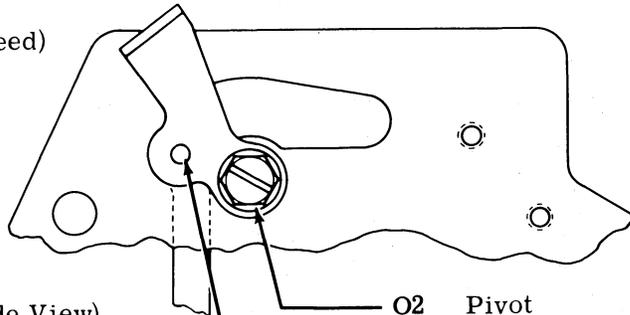


(Right Side View)

- | | | |
|----|-----------------------------|-------------------------------|
| O1 | Bearing Surfaces (Each End) | Paper Straightener Shaft (2) |
| O2 | Pivots (Each End) | Paper Straightener Levers (2) |
| O1 | Hooks (Each End) | Springs (2) |

2.27 Paper Release (Friction Feed)

(Right Side View)



O2 Pivot Paper Release Link

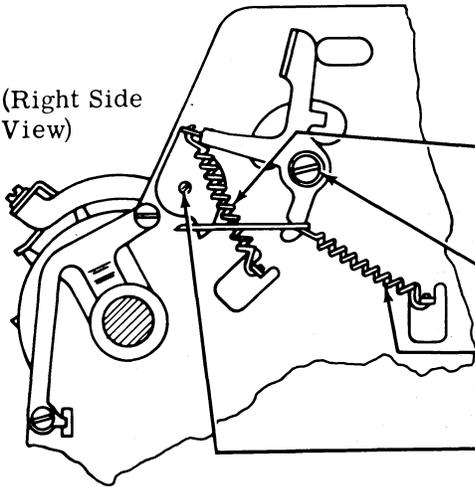
O1 Bearing Surfaces Paper Release Lever

O1 Bearing Surface Paper Release Link

O1 Bearing Surface Paper Release Arm

2.28 Paper Guide Bracket Shaft and Latch (Sprocket Feed)

(Right Side View)



O1 Hooks (Each End) Spring

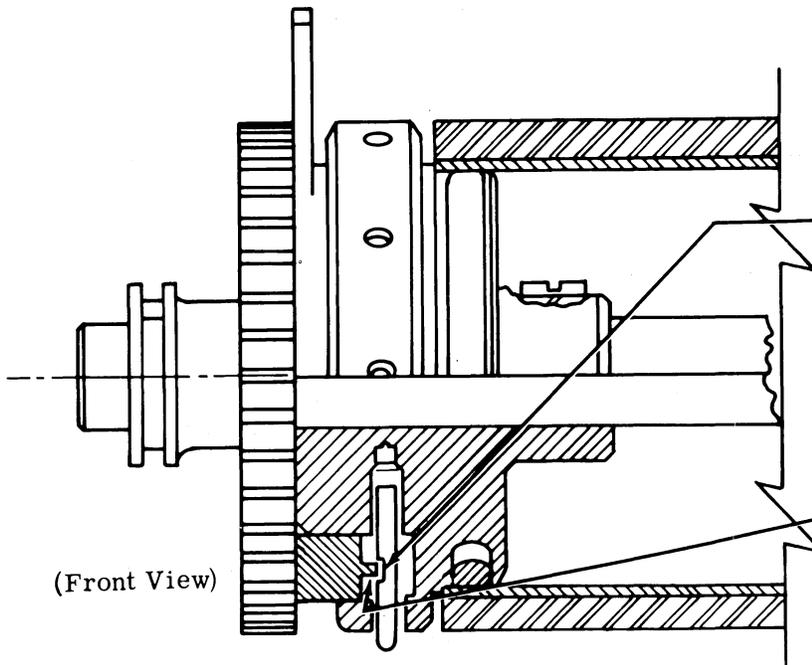
O1 Pivots (2 Places) Guide Bracket Latch

O1 Hooks (Each End) Spring

O1 Pivots (2 Places) Guide Bracket Shaft

2.29 Platen Hubs and Pins (Sprocket Feed)

(Front View)



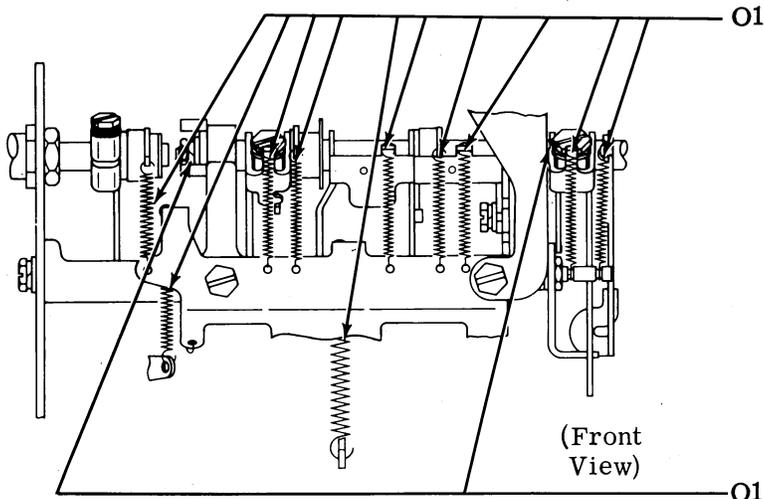
Note: See the disassembly and reassembly instructions given in the appropriate section before attempting to disassemble the platen hub.

G Thin Coat on Contacting Surface (11 Places, Left and Right Hubs) Sprocket Pins

Note: Do not pack notch of sprocket pins with grease.

G Thick Coat on Platen Hub Cavity (11 Places, Left and Right Hubs)

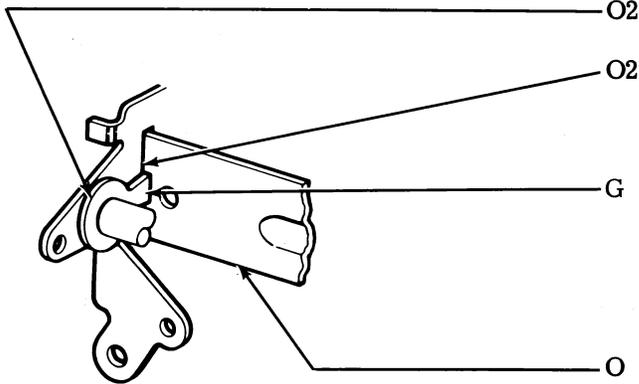
2.30 Trip Shaft Bearings and Springs



O1 Hooks (Each End) Springs

O1 Bearings Trip Shaft

2.31 Function Stripper Blade

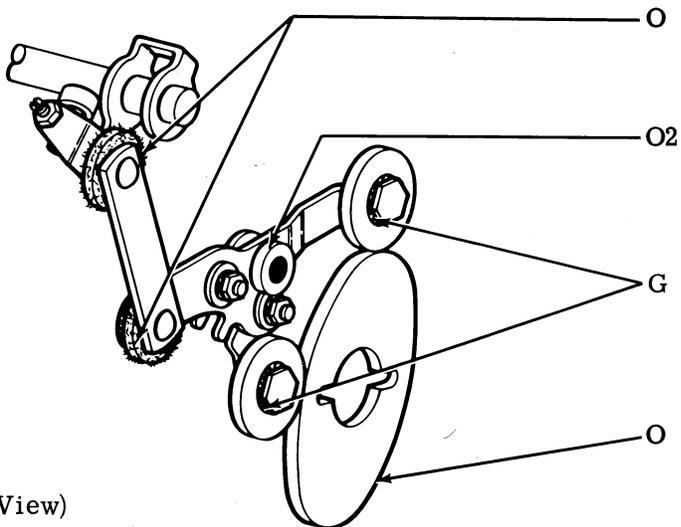


O2 Bearings Drive Shaft

O2 Bearing Surface (Each End) Stripper Blade Drive Arm

G Thick Coat on Edge of Engaging Surfaces (Each End) Drive Arm (Each End)

O Thin Film on Engaging Surfaces Stripper Blade



O Saturate Felt Oilers Drive Link (Each End)

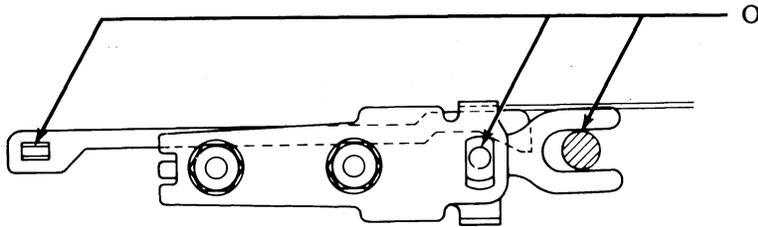
O2 Pivot Cam Follower Arm

G Pack Bearings Cam Follower

O Thin Film on Engaging Surfaces Stripper Blade Cam

(Rear View)

2.32 Suppression Function Lever

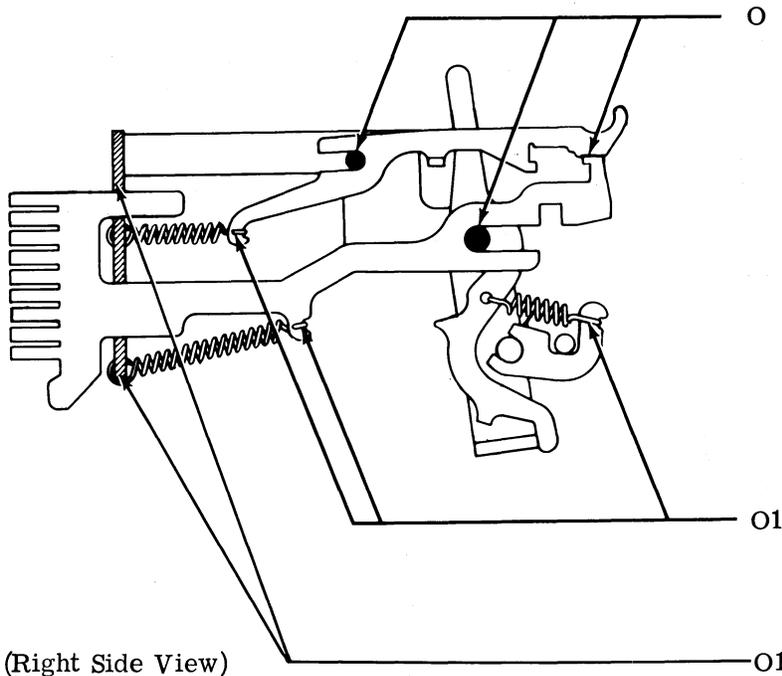


(Top View)

Thin Film on Engaging Surfaces

Suppression Function Lever

2.33 Function Bar and Pawl



(Right Side View)

Thin Film on Engaging Surfaces

Function Bar, Lever, and Pawl

Note: Contact clips and arms on function switches must be kept dry.

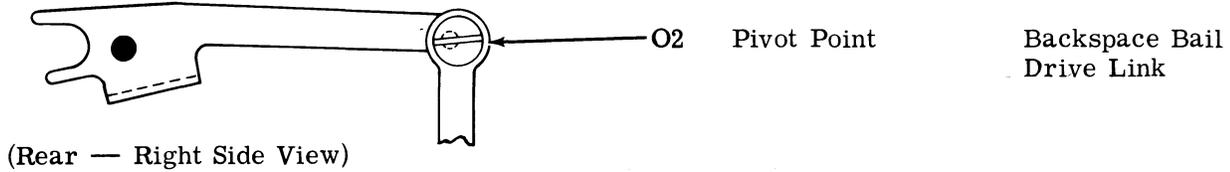
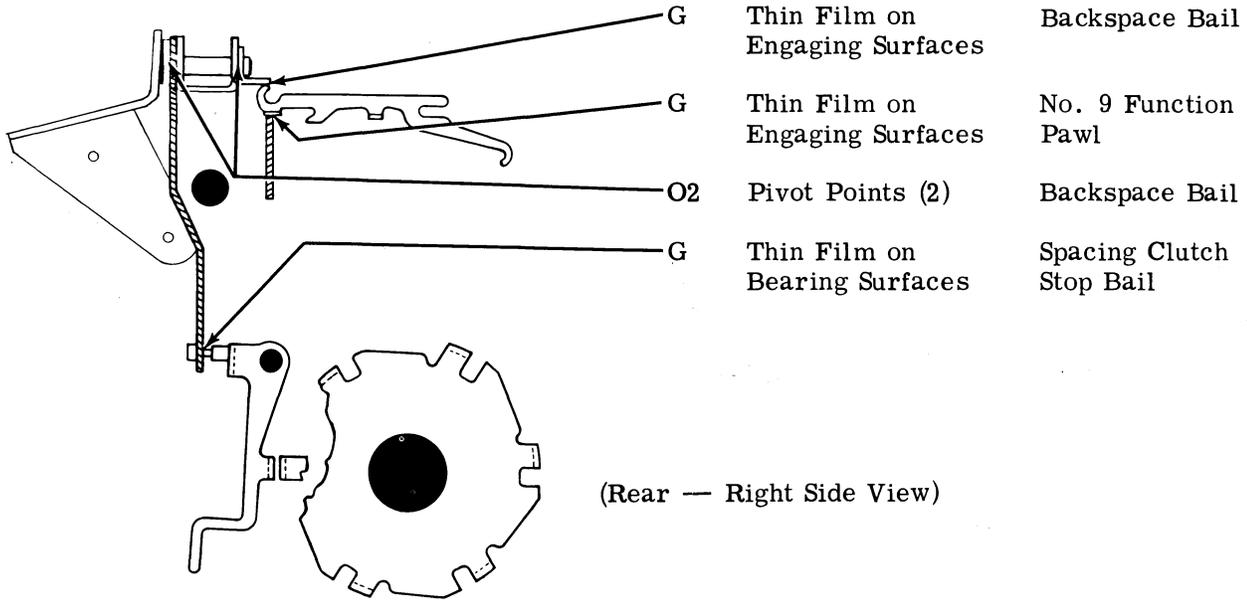
Hooks (Each End)

Springs

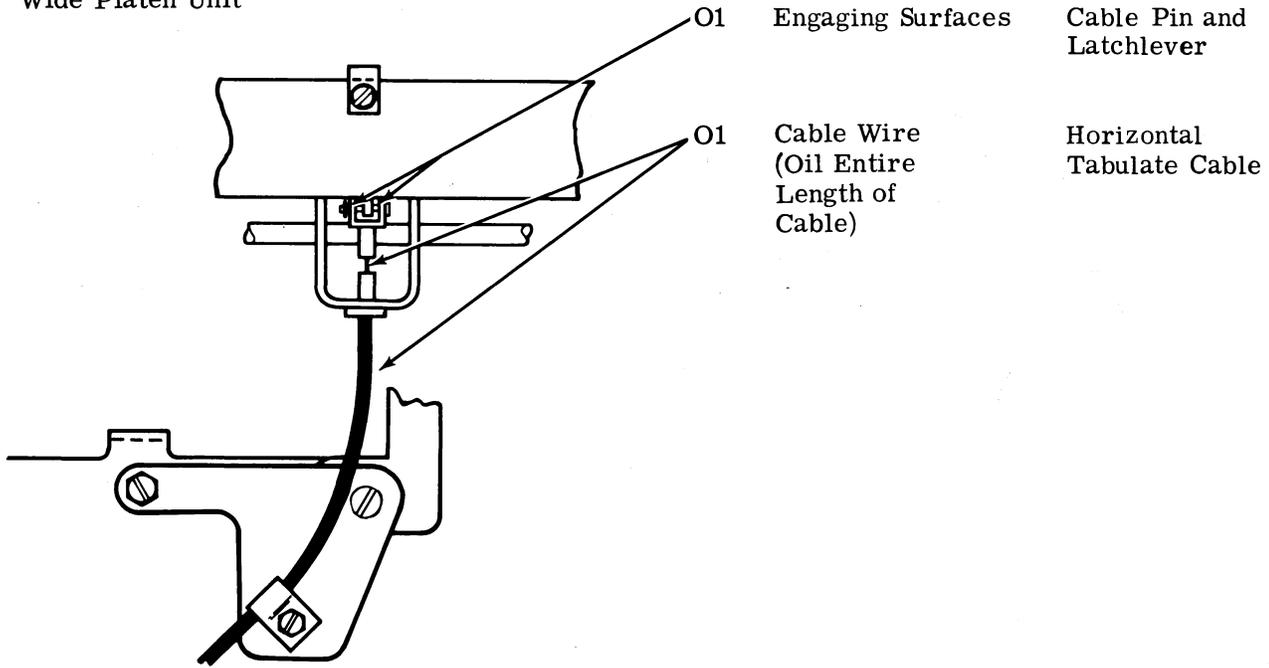
Engaging Surfaces

Function Bar

2.34 Backspace Function Bar Mechanism
Wide Platen Unit

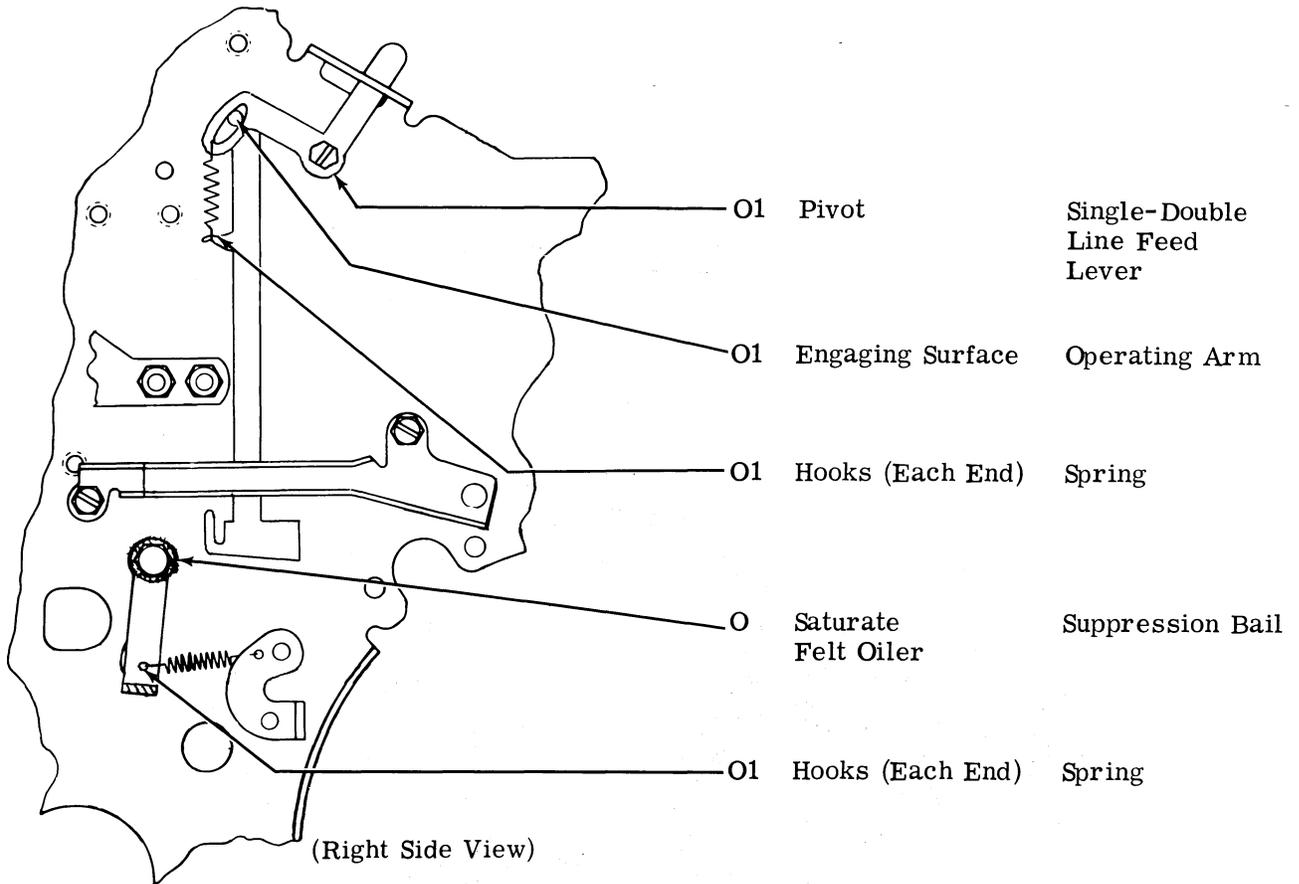


2.35 Horizontal Tabulate Function Bar Mechanism
Wide Platen Unit

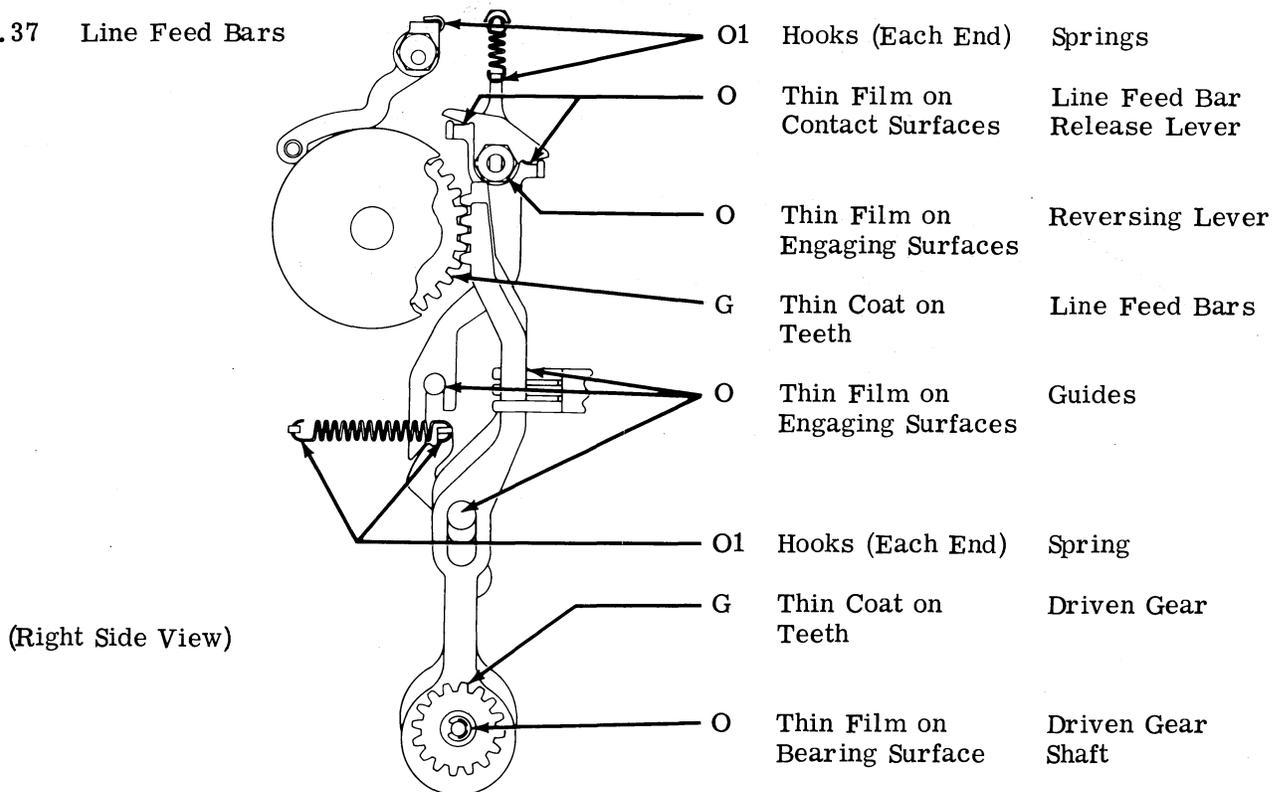


(Rear — Top View)

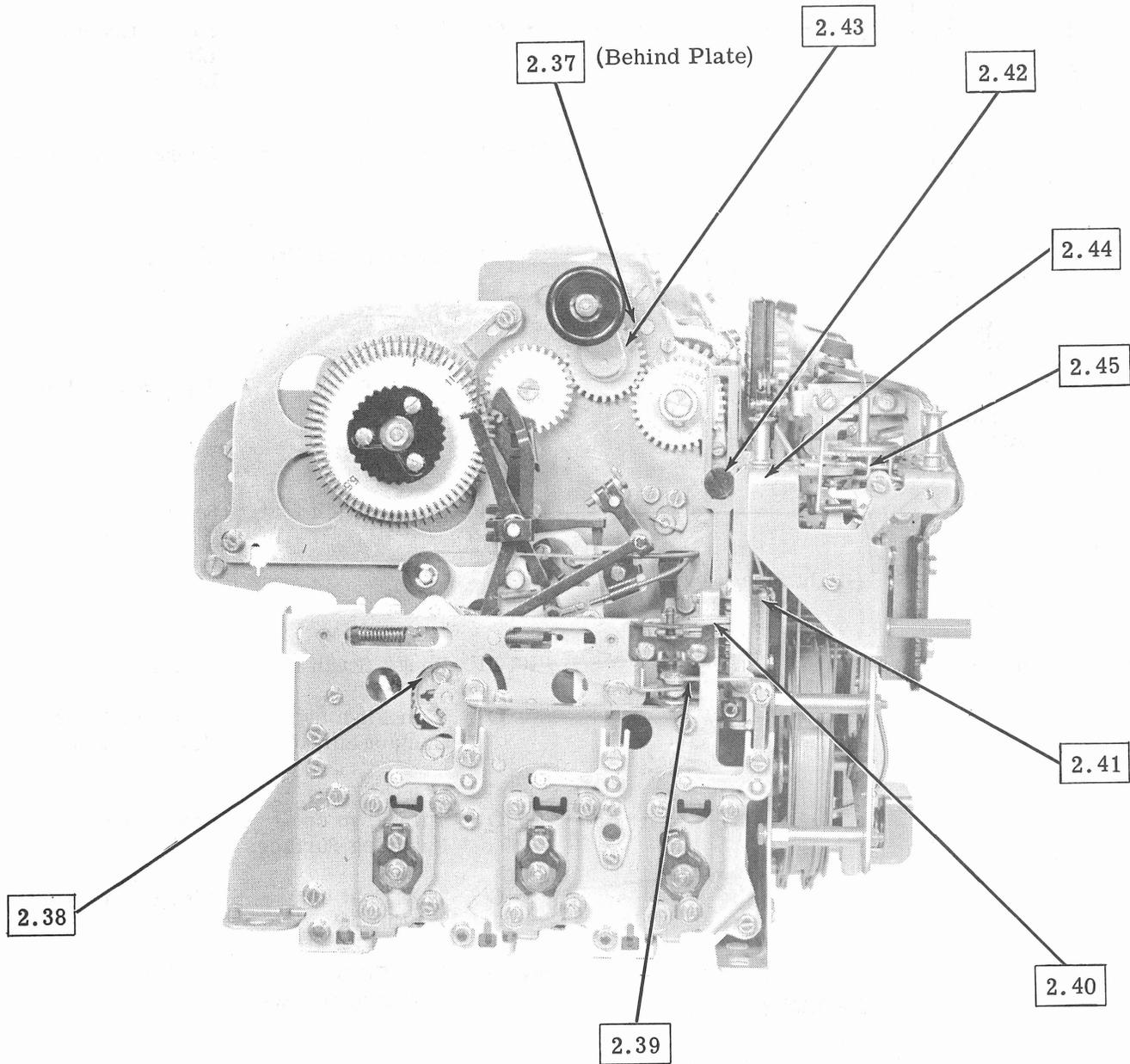
2.36 Single-Double Line Feed Lever



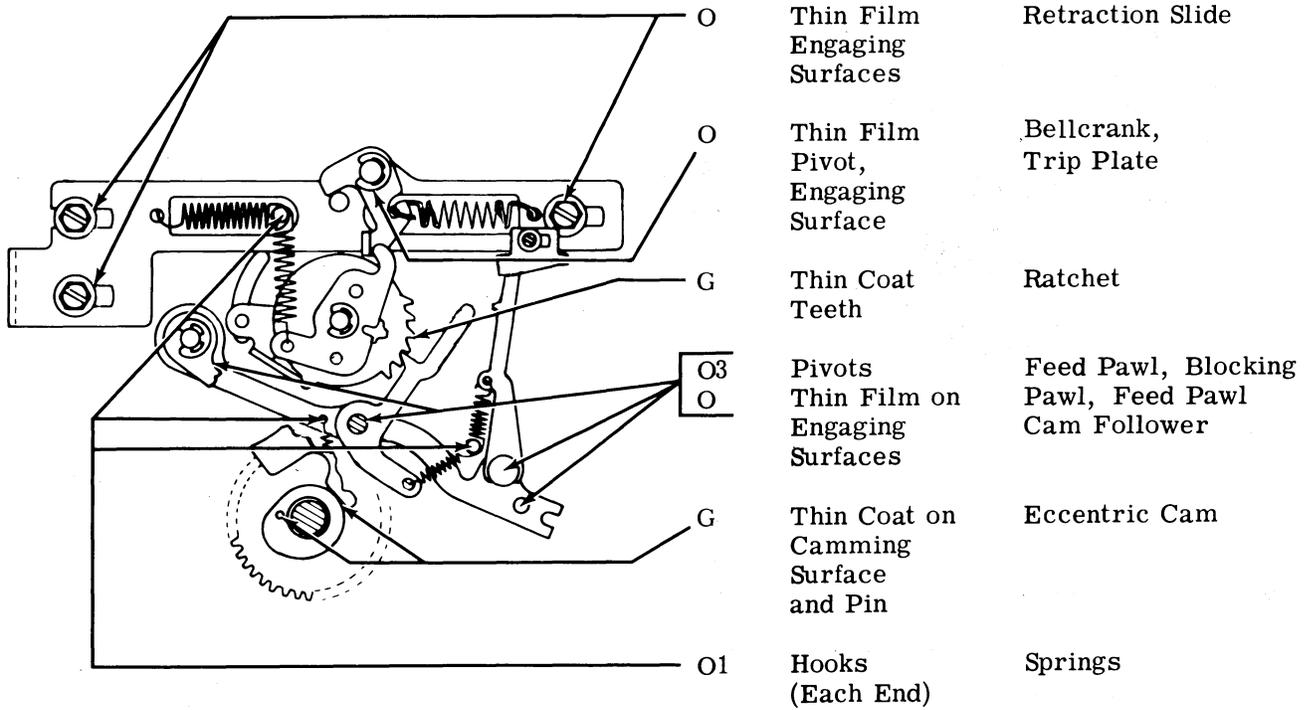
2.37 Line Feed Bars



LUBRICATION AREAS — LEFT SIDE

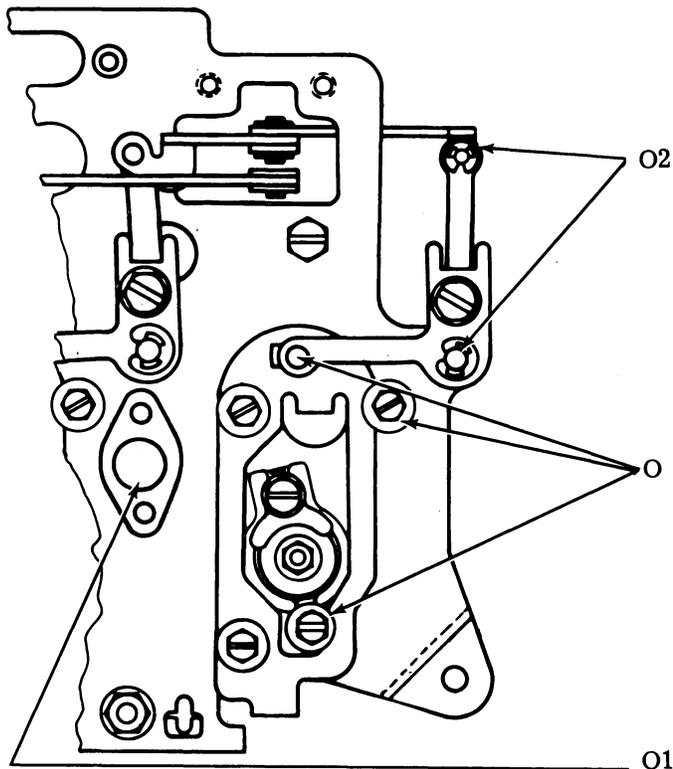


2.38 Retraction Slide and Pawls



(Left Side View)

2.39 Vertical Linkage, Shafts, and Slides



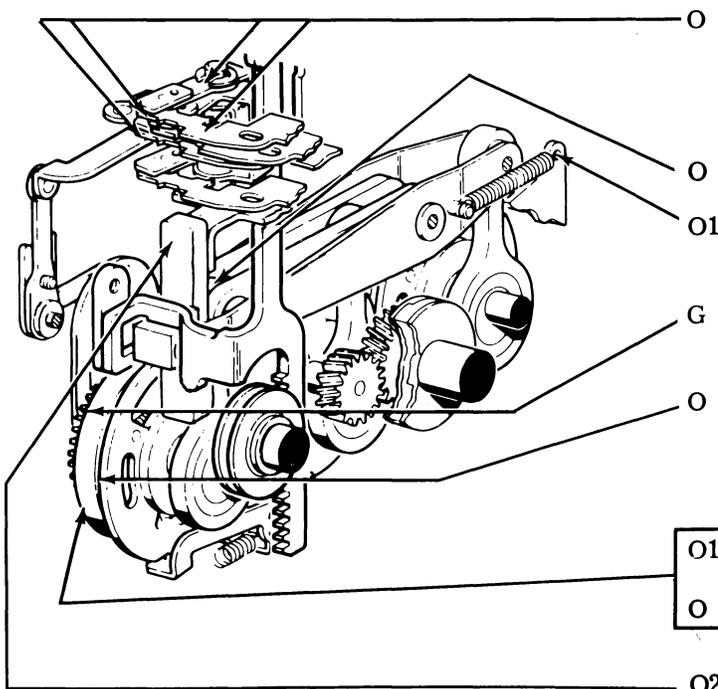
(Left Side View)

Bearing Surfaces Trip Linkage

Thin Film on Sliding Surfaces Clutch Trip Slides (3)

Bearing Driven Gear Shaft

2.40 Vertical Clutches, Gears, and Bellcranks



(Left Side View)

Thin Film on Pivots Guide Positioning Trip Levers, Codebar Bellcranks

Bearing Surface Output Bearing

Hooks (Each End) Springs (13)

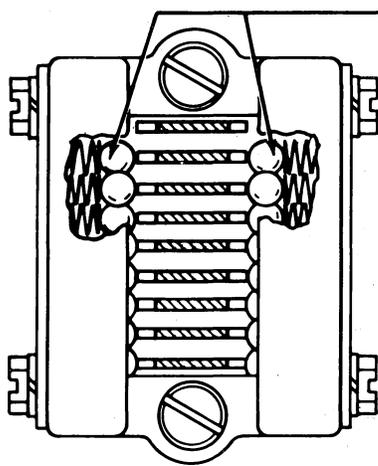
Thick Coat on Teeth Gears (7)

Thin Film on Camming Surface Clutch Discs (3)

Internal Mechanism Saturate Felt Wick Clutch Assembly (3)

Track Surface Track

2.41 Codebar Detent



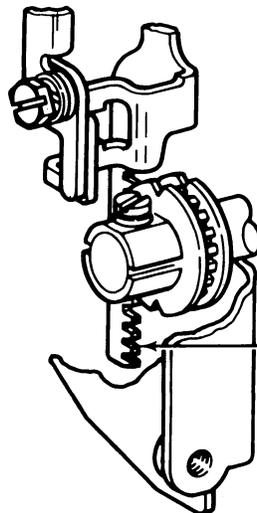
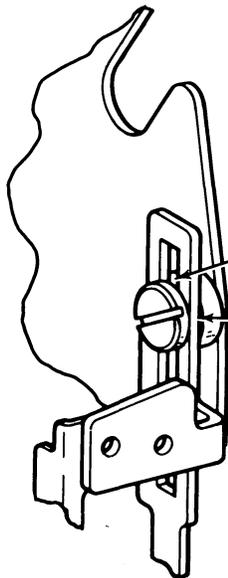
(Left Side View)

O1

Bearings and
Compression
Springs

Codebar
Detents

2.42 Vertical Positioning Rack



(Left Side View)

O

Saturate
Felt Oiler

Spacer
Guide

G

Thin Film
on Engaging
Surface

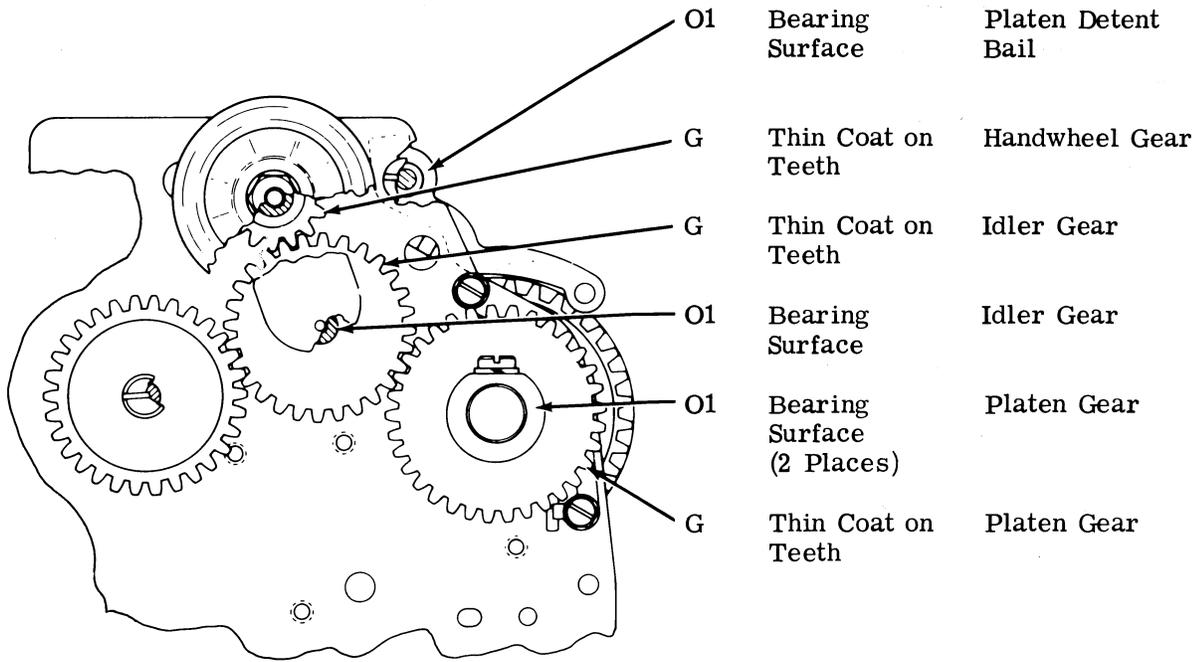
Spacer
Upper Rack
Guide

G

Thick Coat on
Teeth, Engaging
Surfaces, and
Bearings

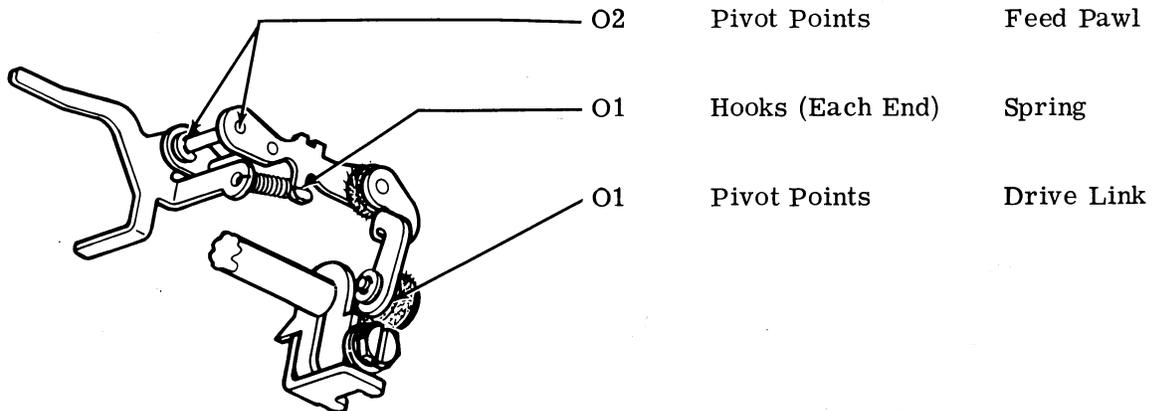
Lower Rack
Guide Arm,
Pinion, and
Drive Shaft
Bearings

2.43 Line Feed Gears



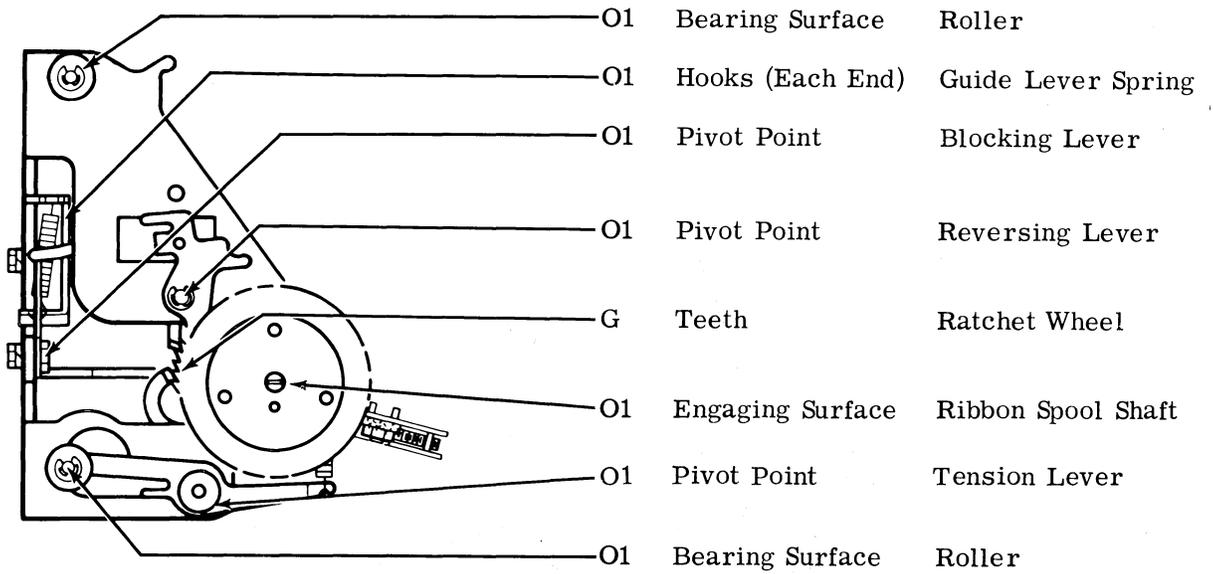
(Left Side View)

2.44 Ribbon Feed Drive Arm

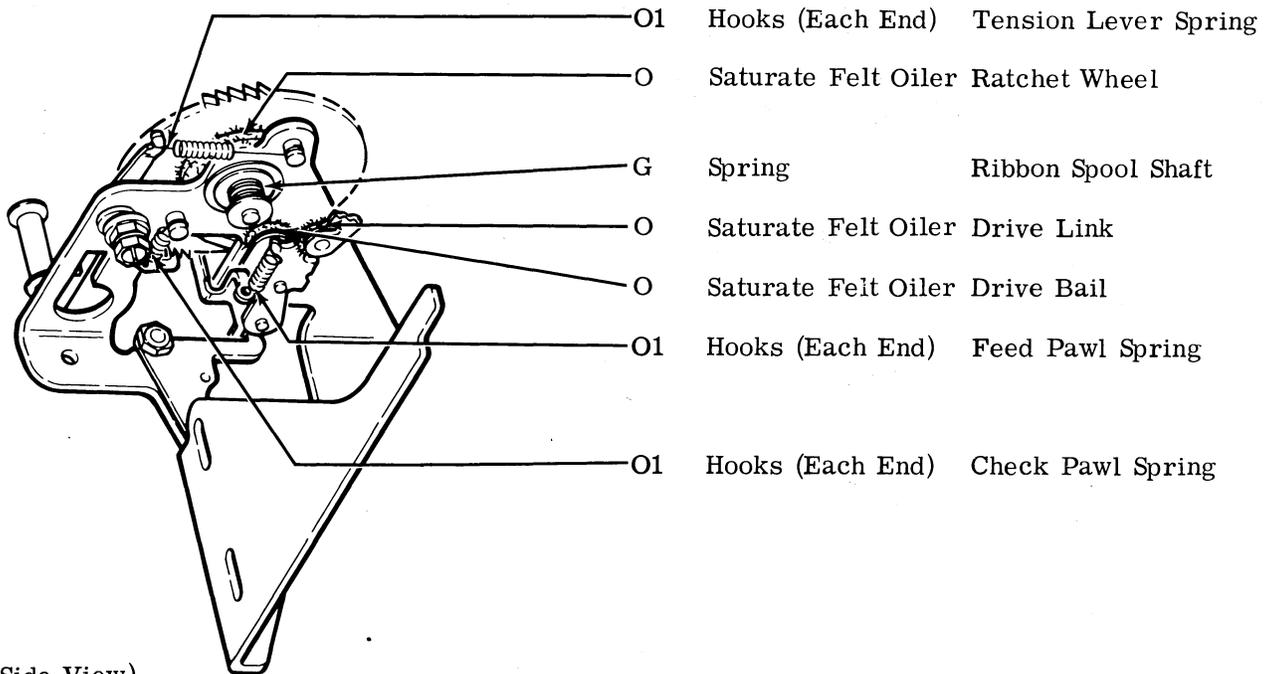


(Front View of Right Side)

2.45 Ribbon Feed Bracket and Ratchet



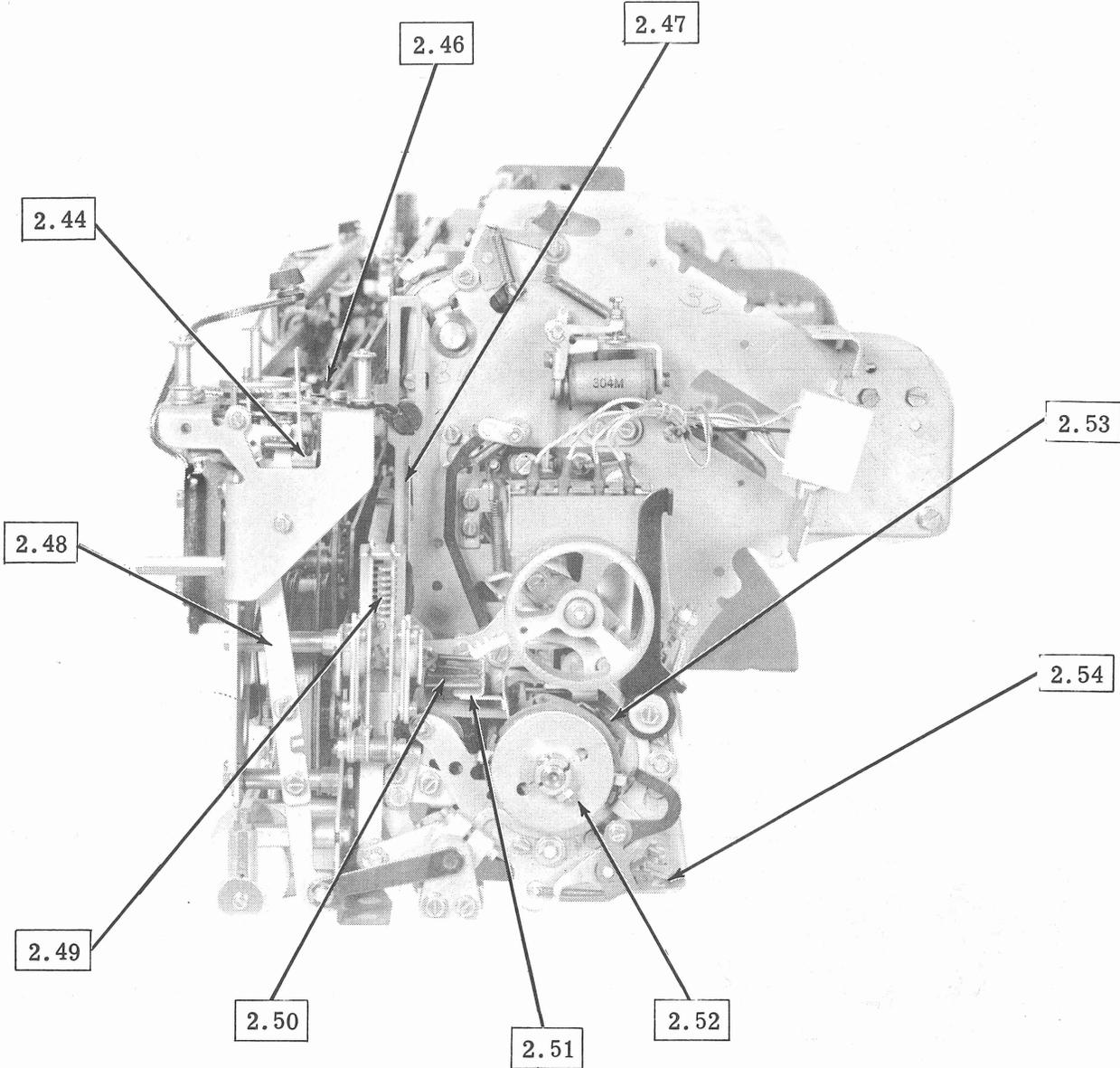
(Top Left View)



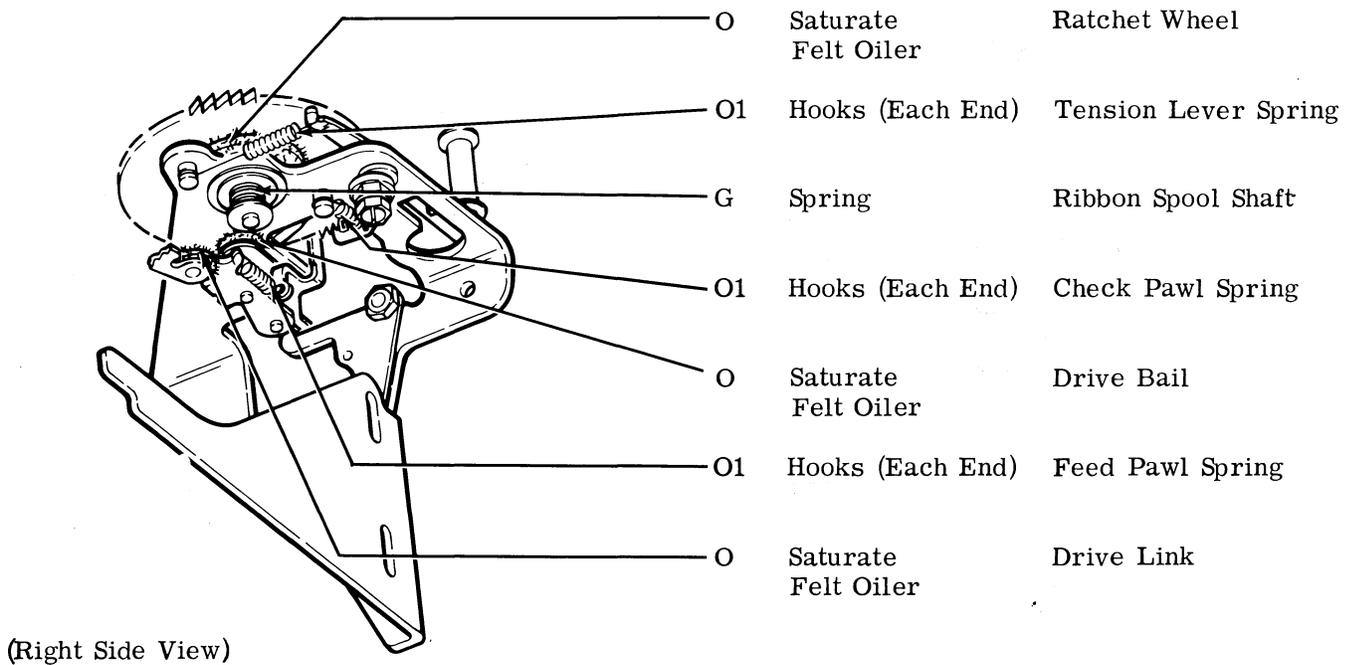
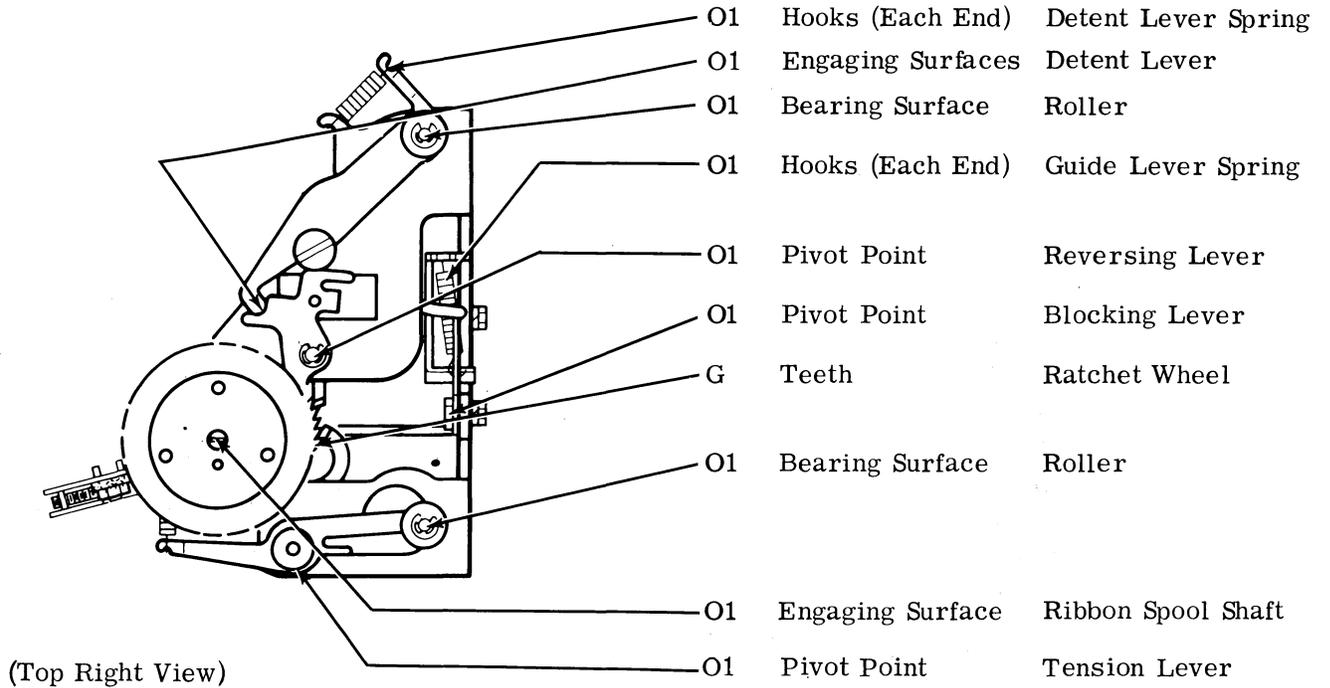
(Left Side View)

LUBRICATION AREAS — RIGHT SIDE

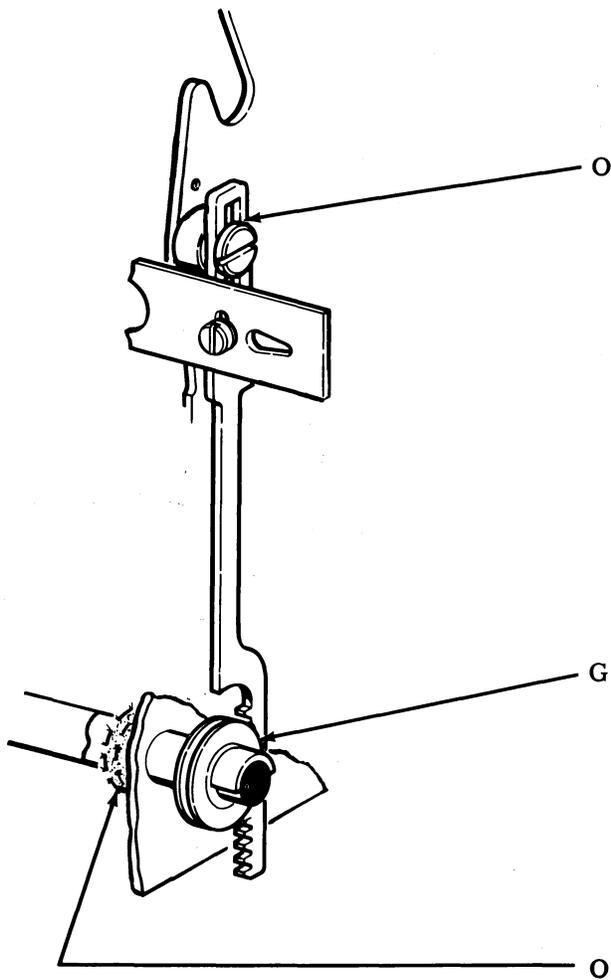
Basic Unit and Wide Platen Unit



2.46 Ribbon Feed Bracket and Ratchet — (continued)



2.47 Vertical Positioning Rack — (continued)



Thin Film on
Engaging
Surfaces

Upper Rack
Guide

Thick Coat on
Teeth,
Engaging
Surfaces,
Bearings

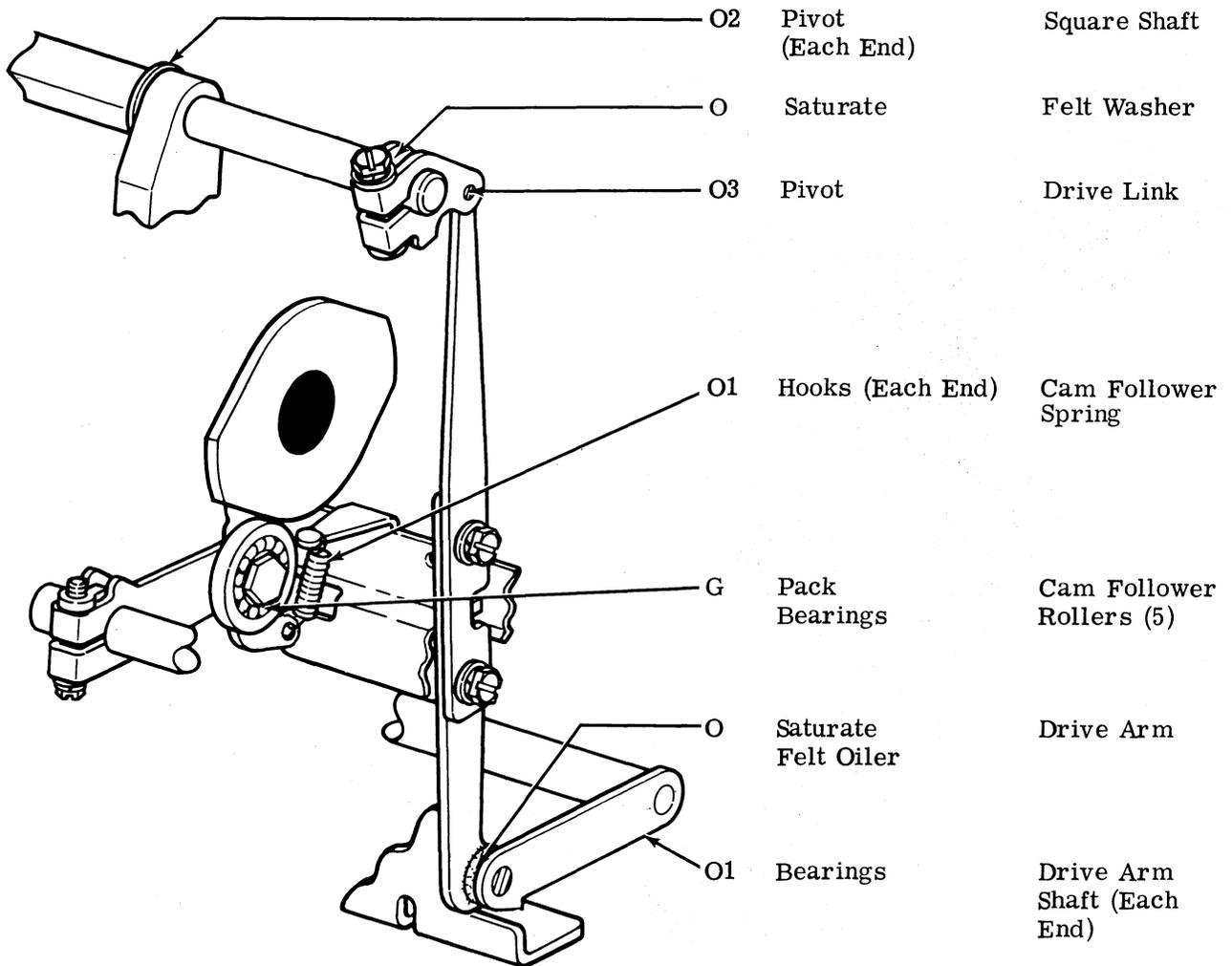
Lower Rack
Guide Arm,
Pinion, Drive
Shaft Bearings

Saturate
Felt Oiler

Drive Shaft

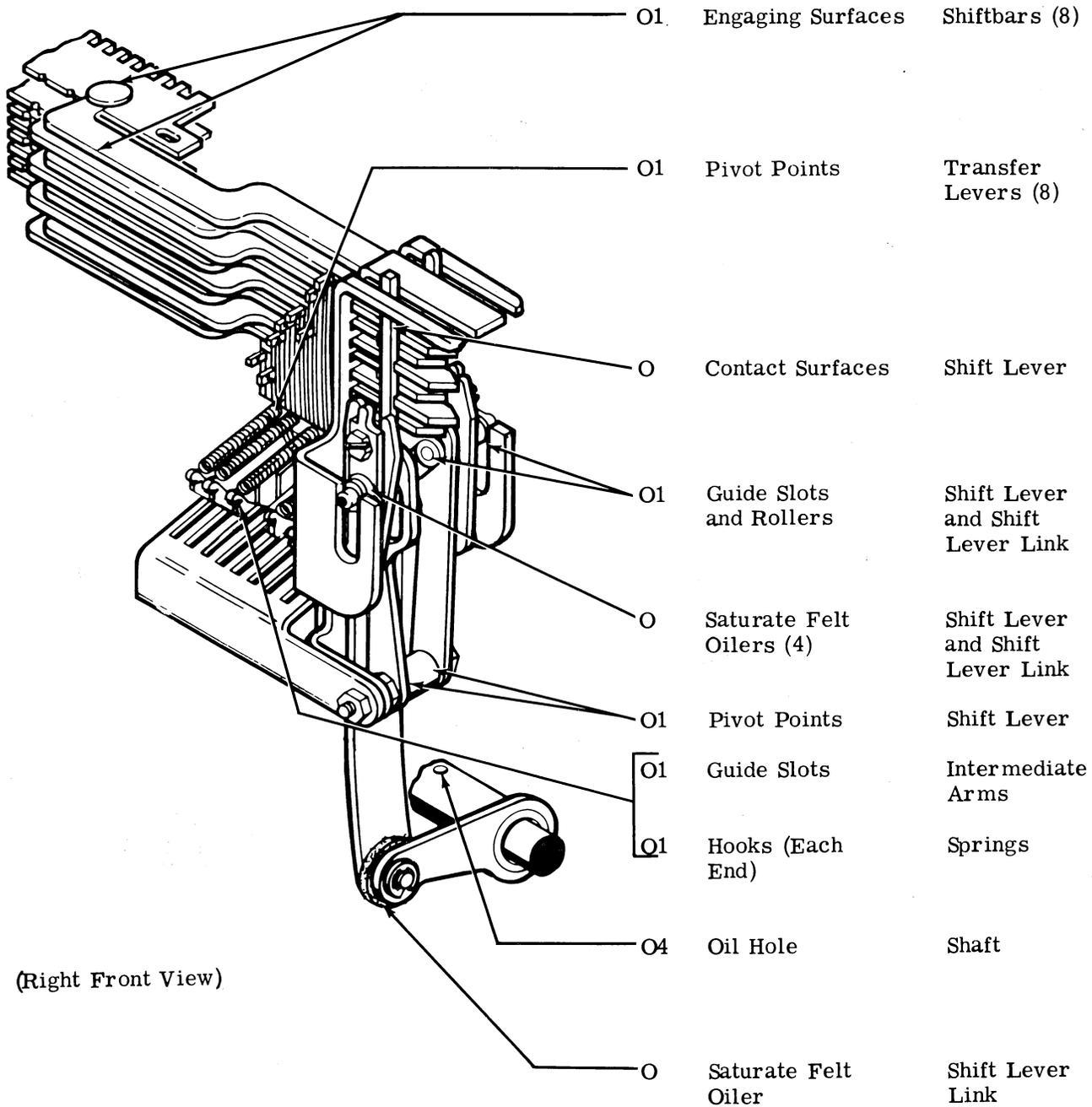
(Right Front View)

2.48 Printing Drive Arm and Link



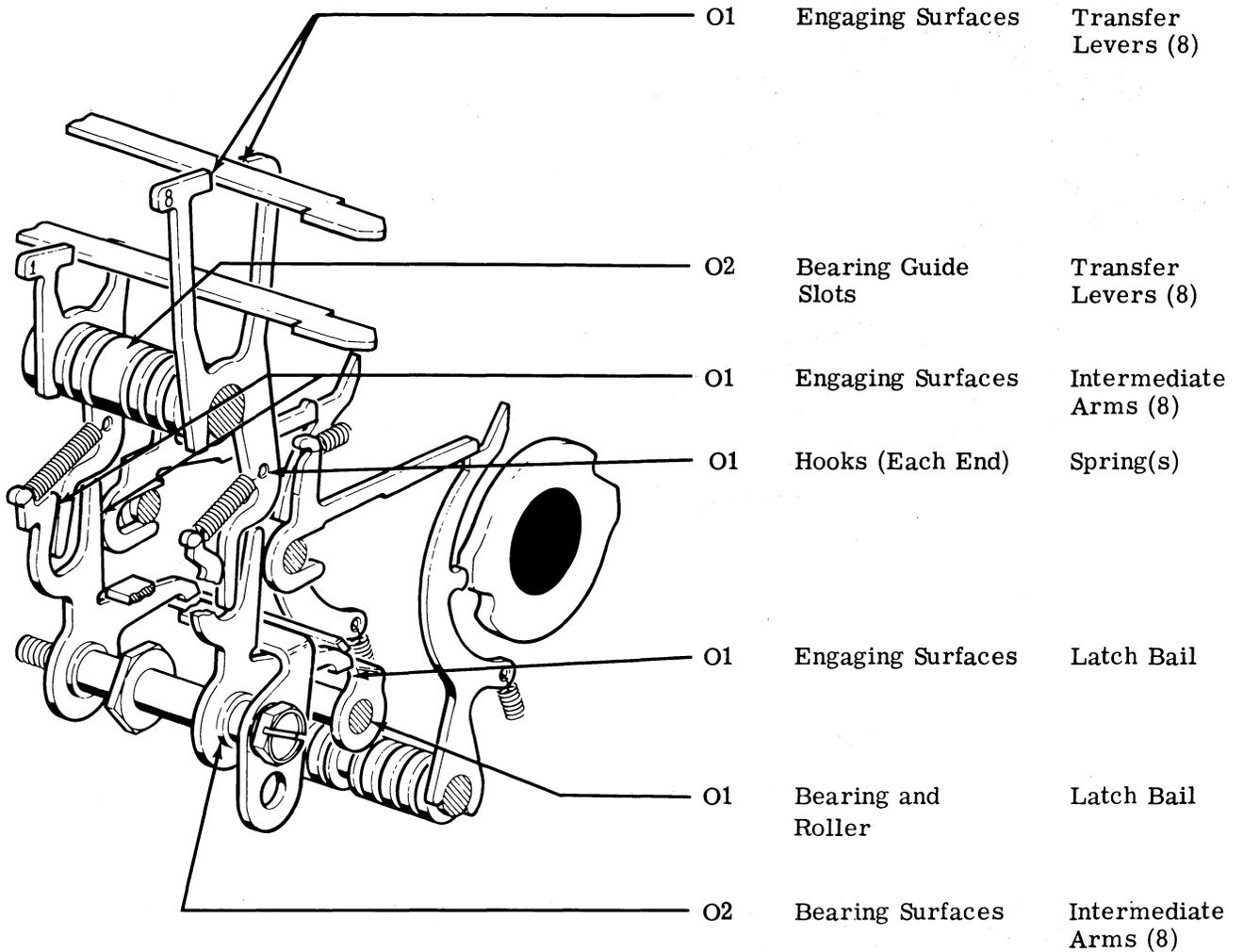
(Right Front View)

2.49 Shiftbars and Shift Levers



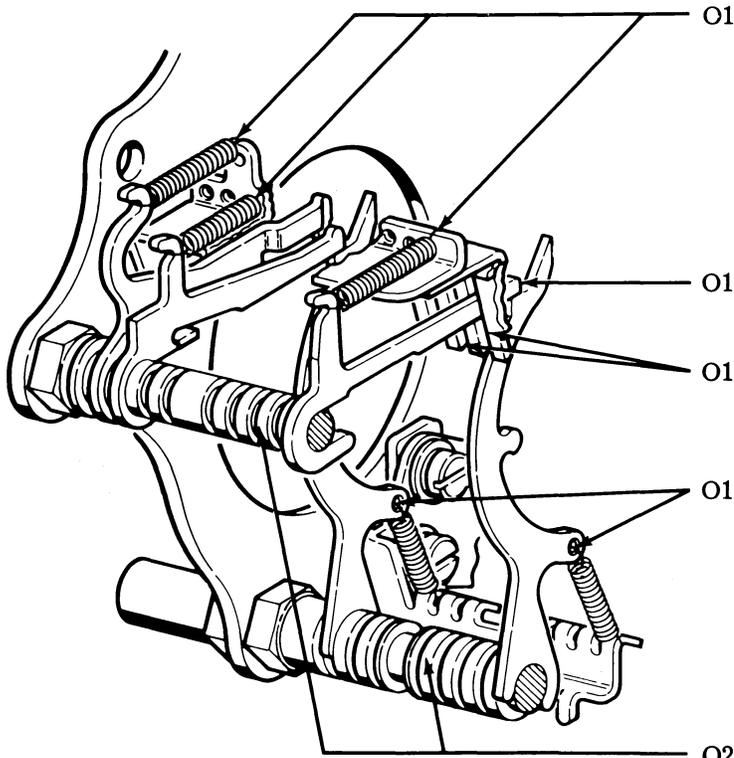
(Right Front View)

2.50 Transfer Levers



(Right Front View)

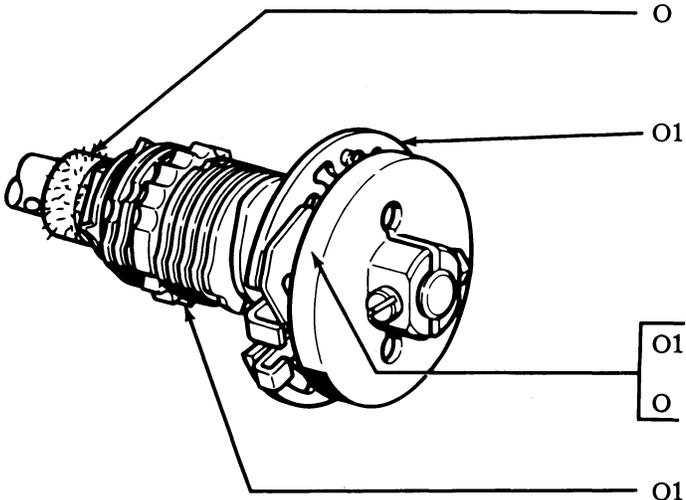
2.51 Selector Levers



(Right Front View)

- | | | |
|----|------------------------|--|
| O1 | Hooks (Each End) | Springs (11) |
| O1 | Engaging Surfaces | Push Levers |
| O1 | Guide Slots | Start and Locklevers, Selector and Push Levers |
| O1 | Hooks (Each End) | Springs (10) |
| O2 | Bearing Guide Slots | Push and Selector Lever Guide Bearings |

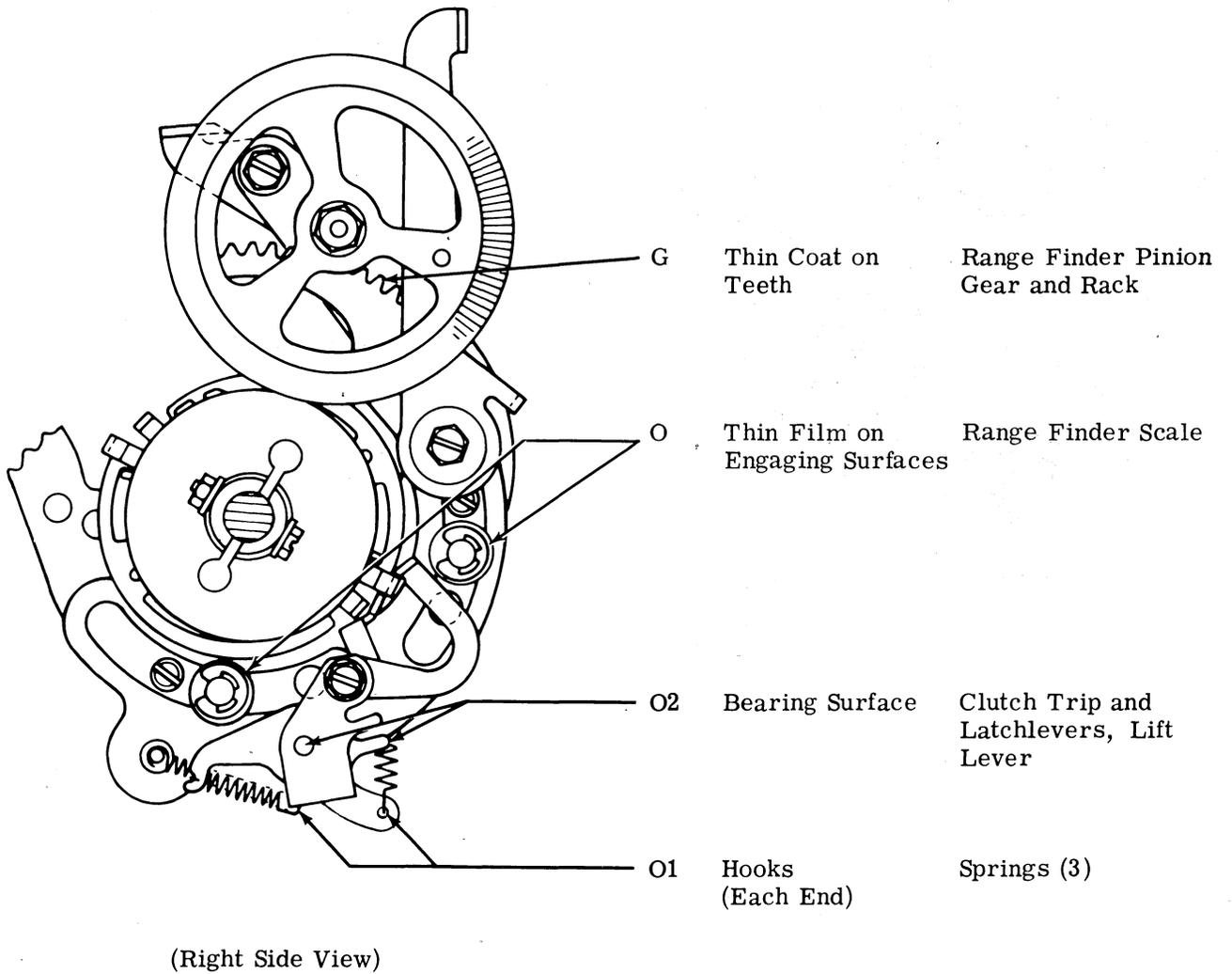
2.52 Selector Cams and Clutch



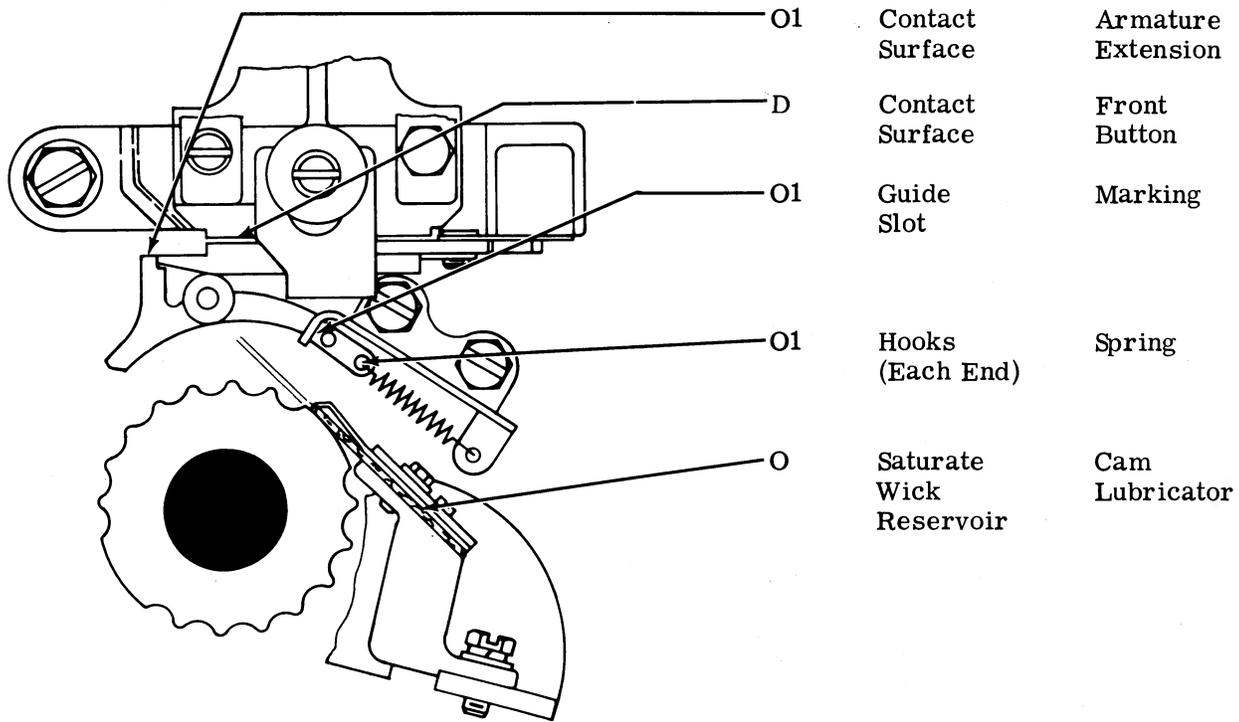
(Right Front View)

- | | | |
|----|--|-------------------|
| O | Saturate Felt Oiler | Selector Camshaft |
| O1 | Camming Surface | Clutch Disc |
| O1 | Internal Mechanism Saturate Felt Wick | Selector Clutch |
| O | | |
| O1 | Camming Surface (Each Cam) | Selector Cams |

2.53 Selector Range Finder and Levers



2.54 Selector Cam Lubricator and Marking Locklever

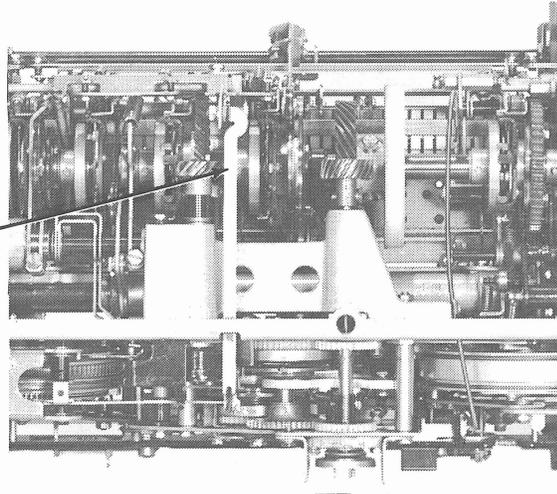


(Right Side View)

3. VARIABLE FEATURES

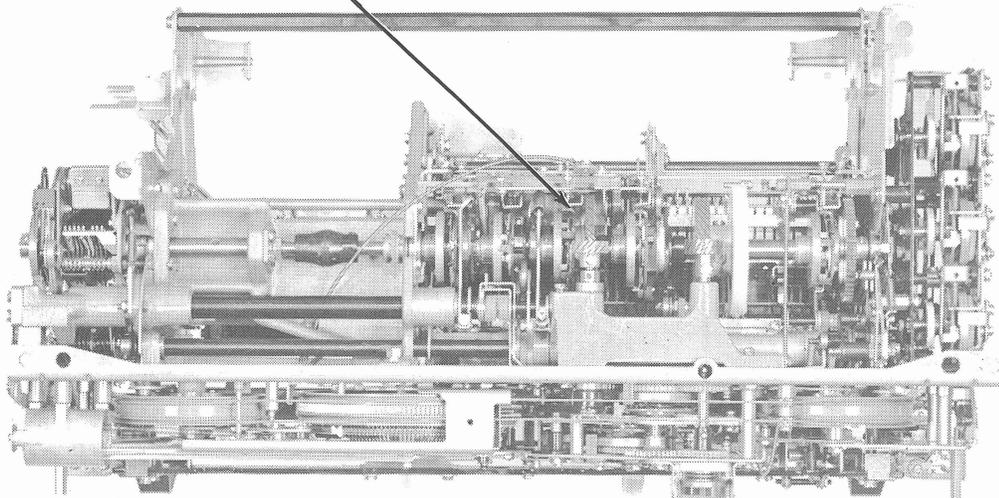
LUBRICATION AREA — BOTTOM

Basic Unit



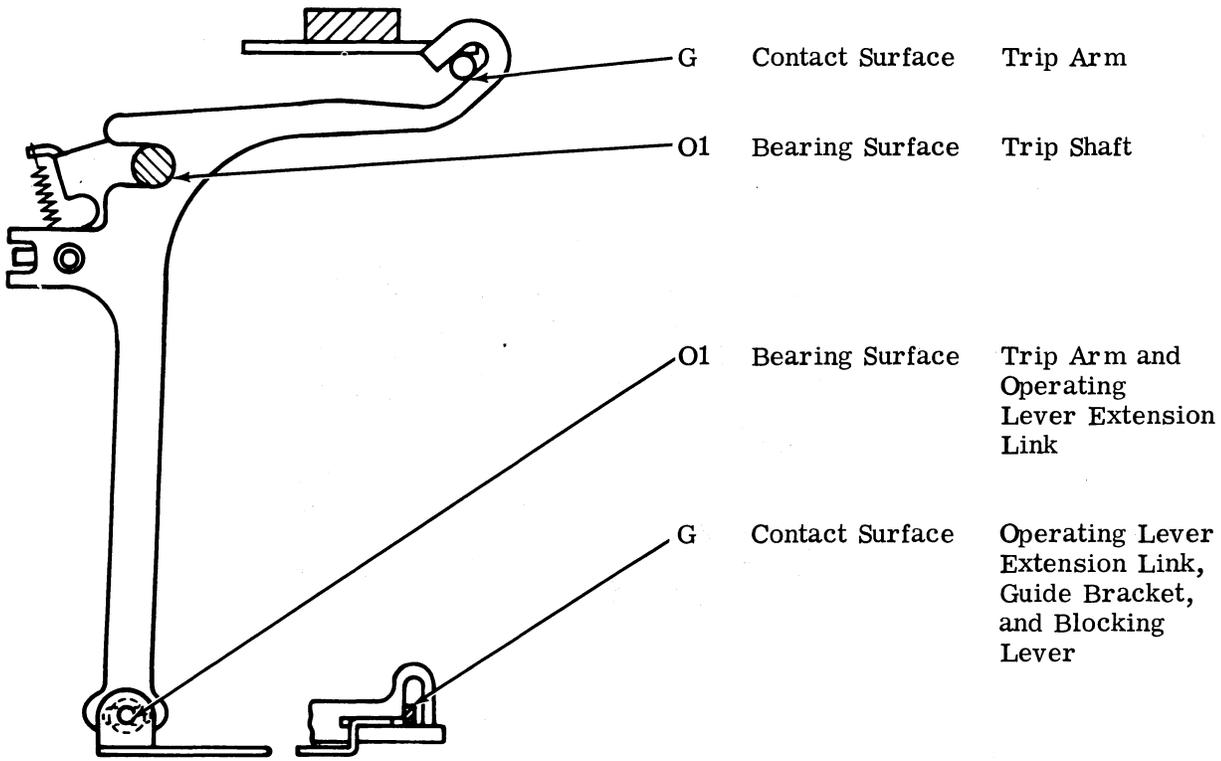
3.01

Wide Platen Unit



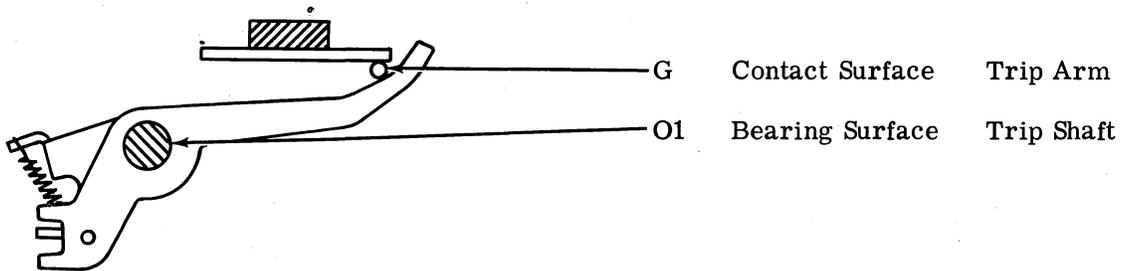
3.01 Horizontal Tabulator Cam and Levers

Basic Unit



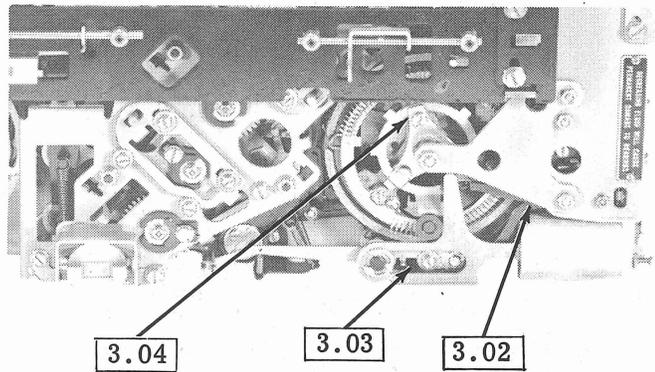
(Right Side View)

Wide Platen Unit

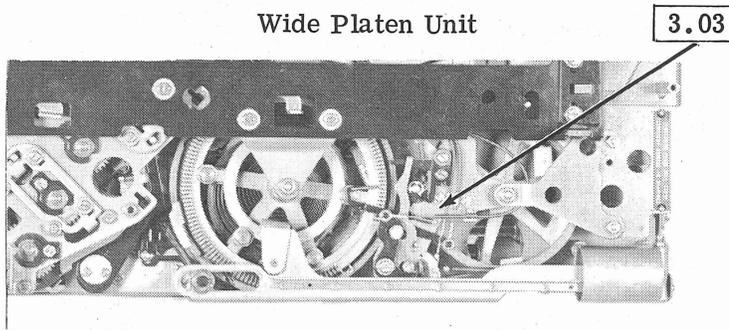


LUBRICATION AREA — FRONT

Basic Unit

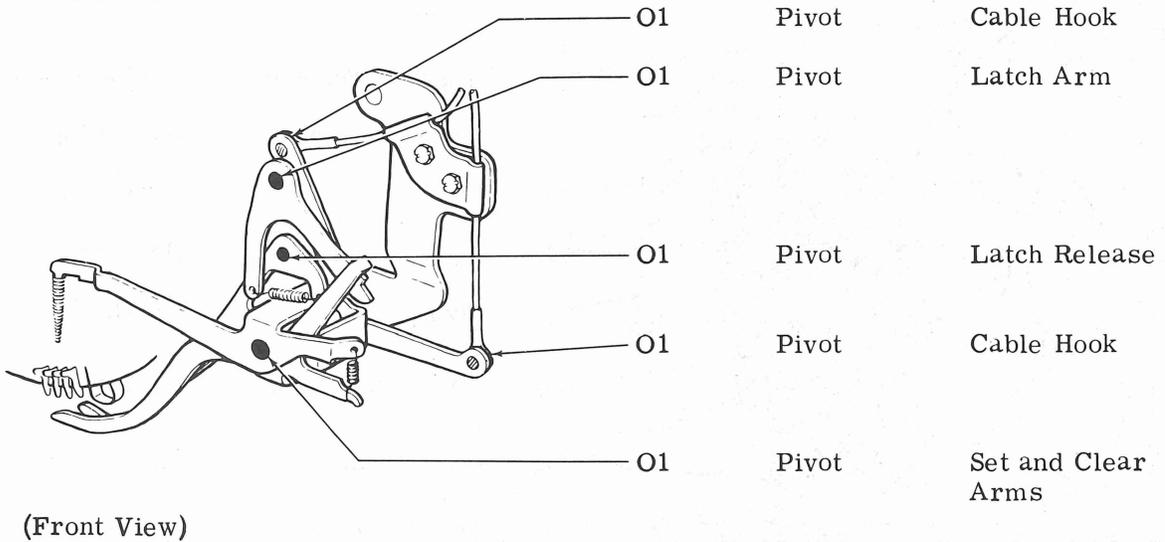


Wide Platen Unit



3.02 Horizontal Tabulator Latch and Arms

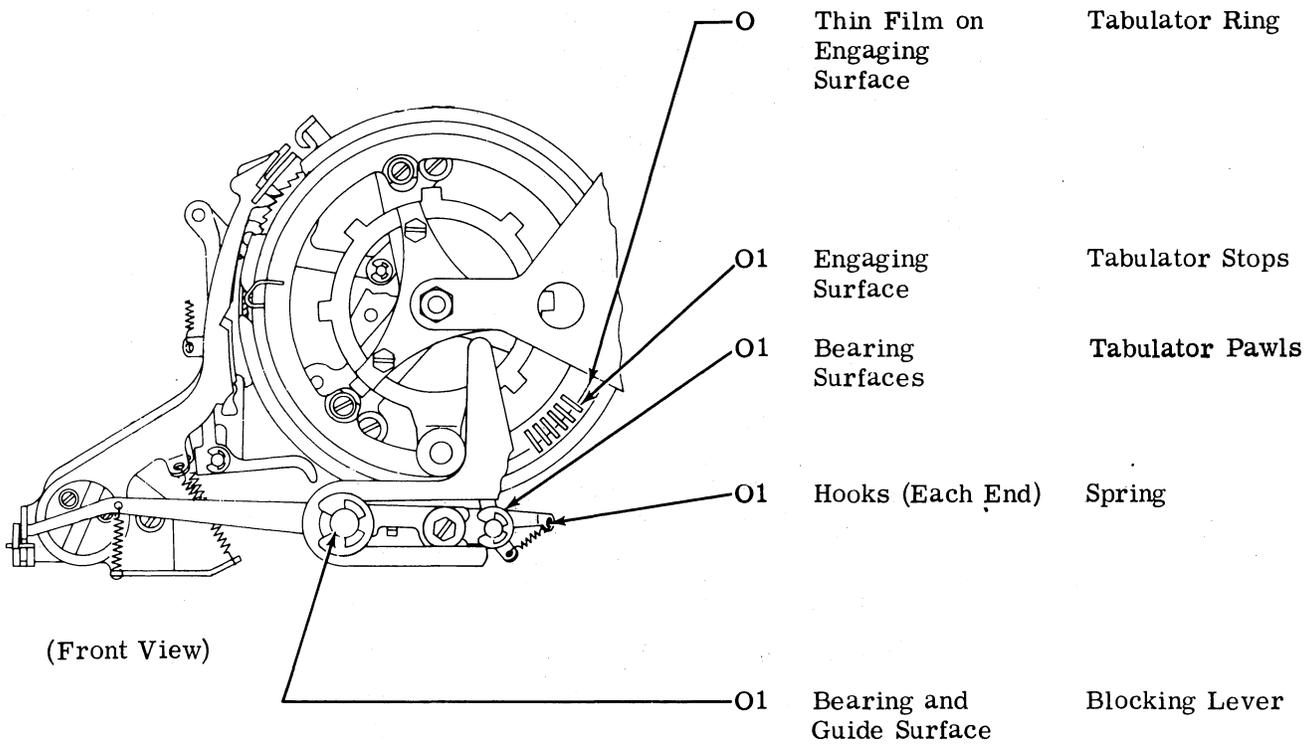
Basic Unit



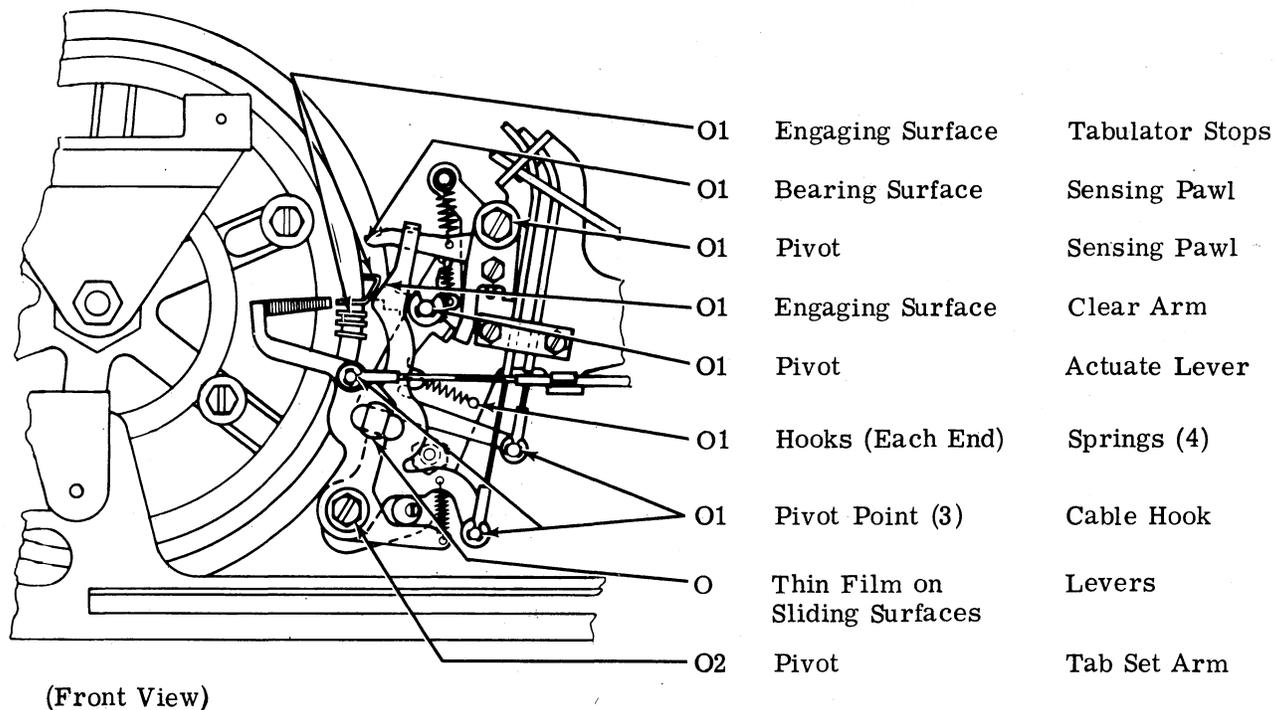
SECTION 574-320-704

3.03 Horizontal Tabulator Stops and Pawls

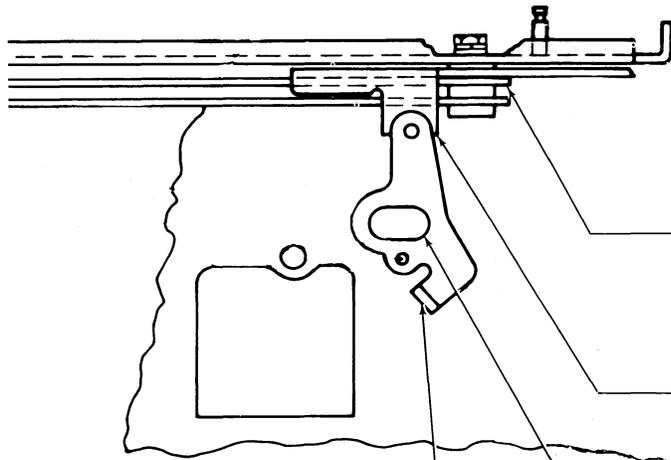
Basic Unit



Wide Platen Unit



3.04 Automatic Carriage Return and Line Feed

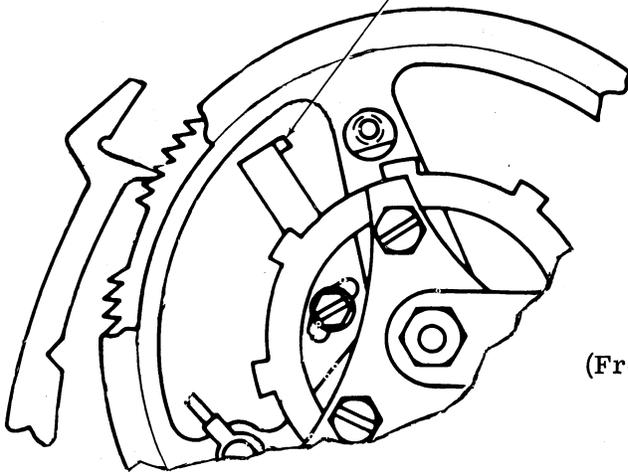


Thin Film on Engaging Surface Automatic Carriage Return/Line Feed Codebar and Guideposts (2)

Thin Film on Engaging Surface Transfer Lever Post and Codebar Engaging Fork

Thin Film on Engaging Surface Transfer Lever Pivot and Bushing

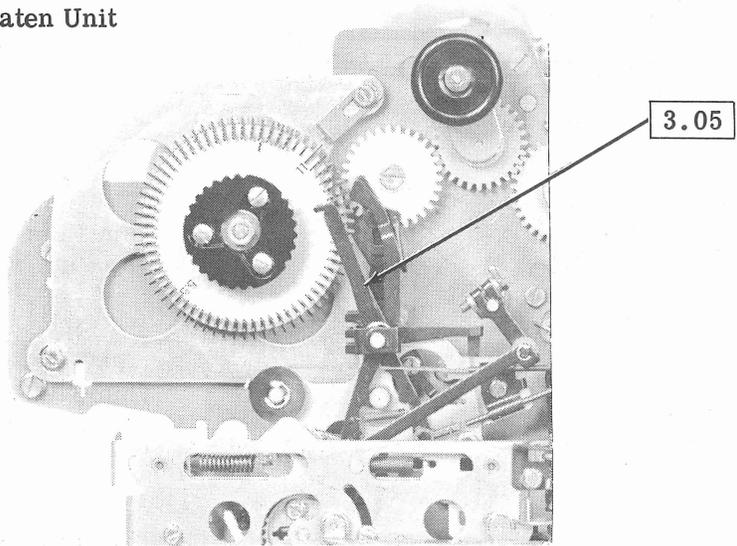
Thin Film on Engaging Surface Transfer Lever and Actuating Lever



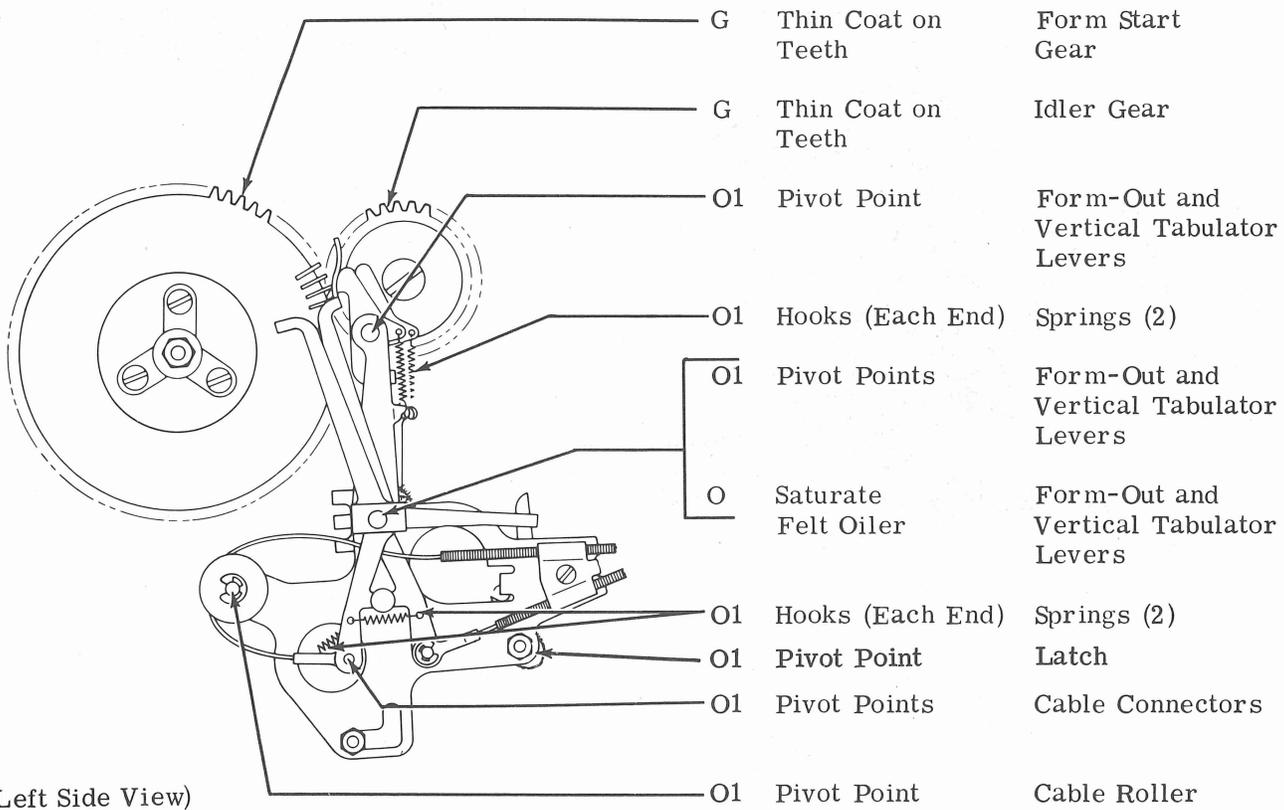
(Front View)

LUBRICATION AREA — LEFT SIDE

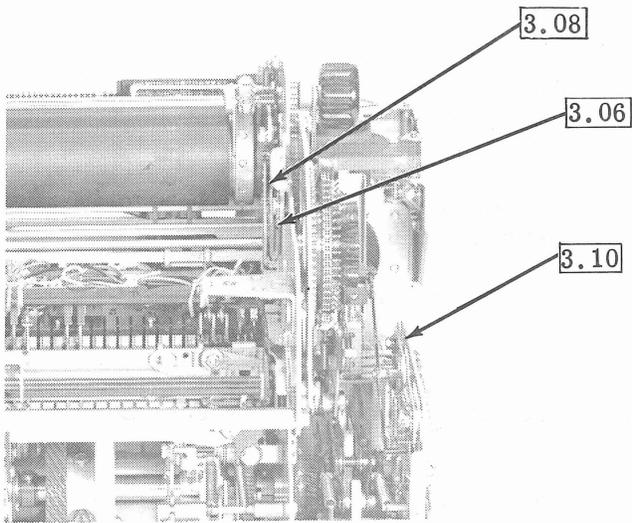
Basic Unit and Wide Platen Unit



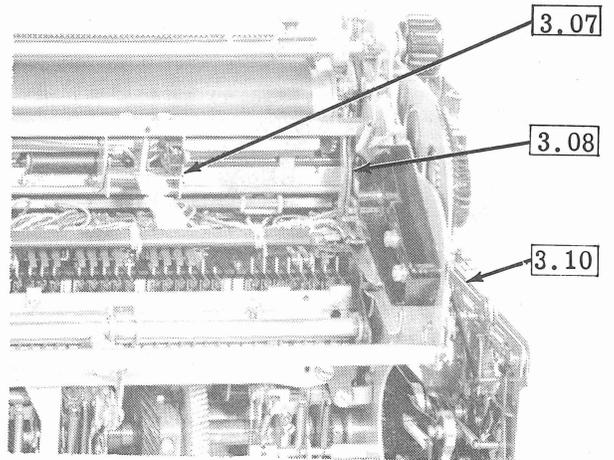
3.05 Vertical Tabulation and Form-Out Gears and Levers



LUBRICATION AREA — REAR

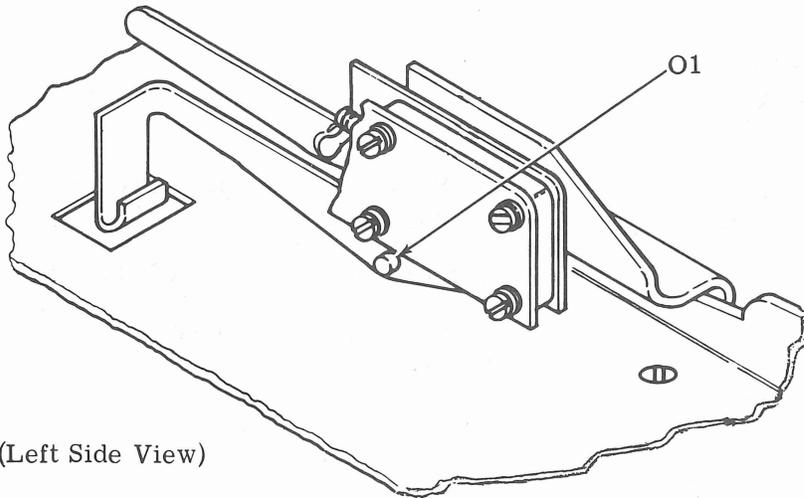


(Sprocket Feed)



(Friction Feed)

3.06 Paper-Out Alarm Switch (Sprocket Feed)

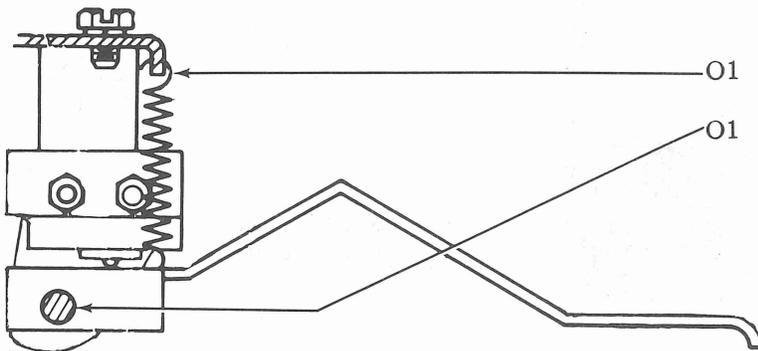


(Left Side View)

Pivot
(2 places)

Paper-Out
Lever

3.07 Low Paper Alarm Switch (Friction Feed)



(Left Side View)

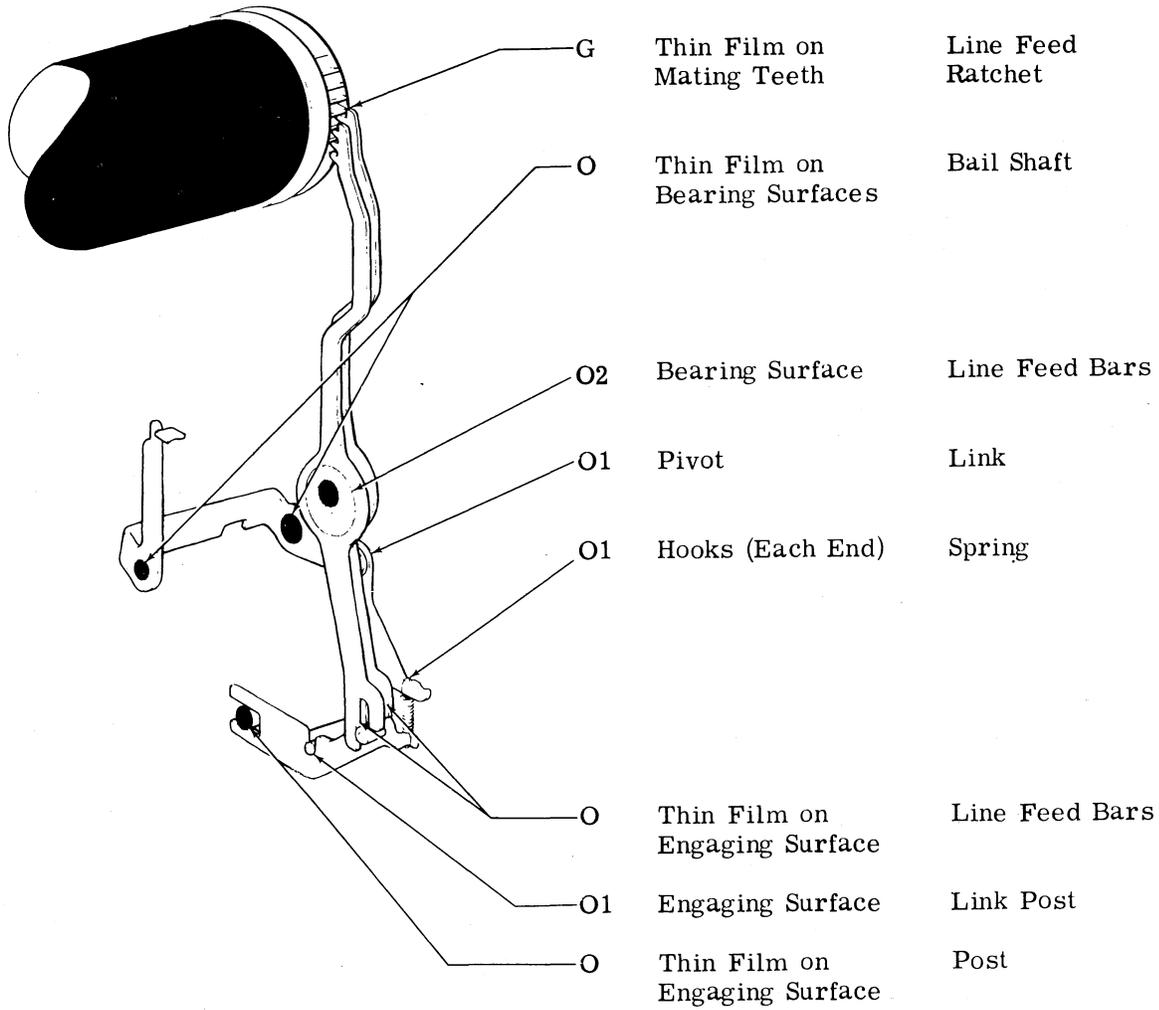
Hooks (Each End)

Spring

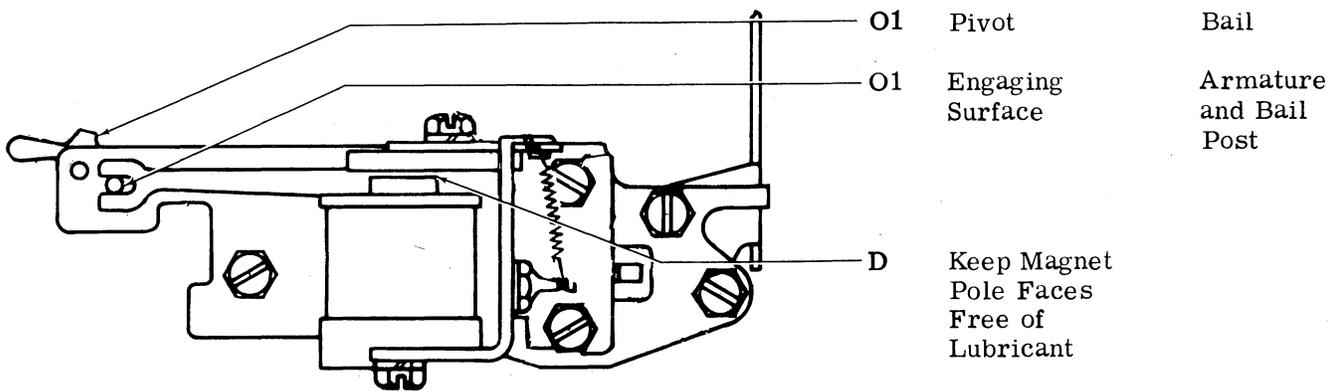
Pivot
(2 Places)

Low-Paper
Lever

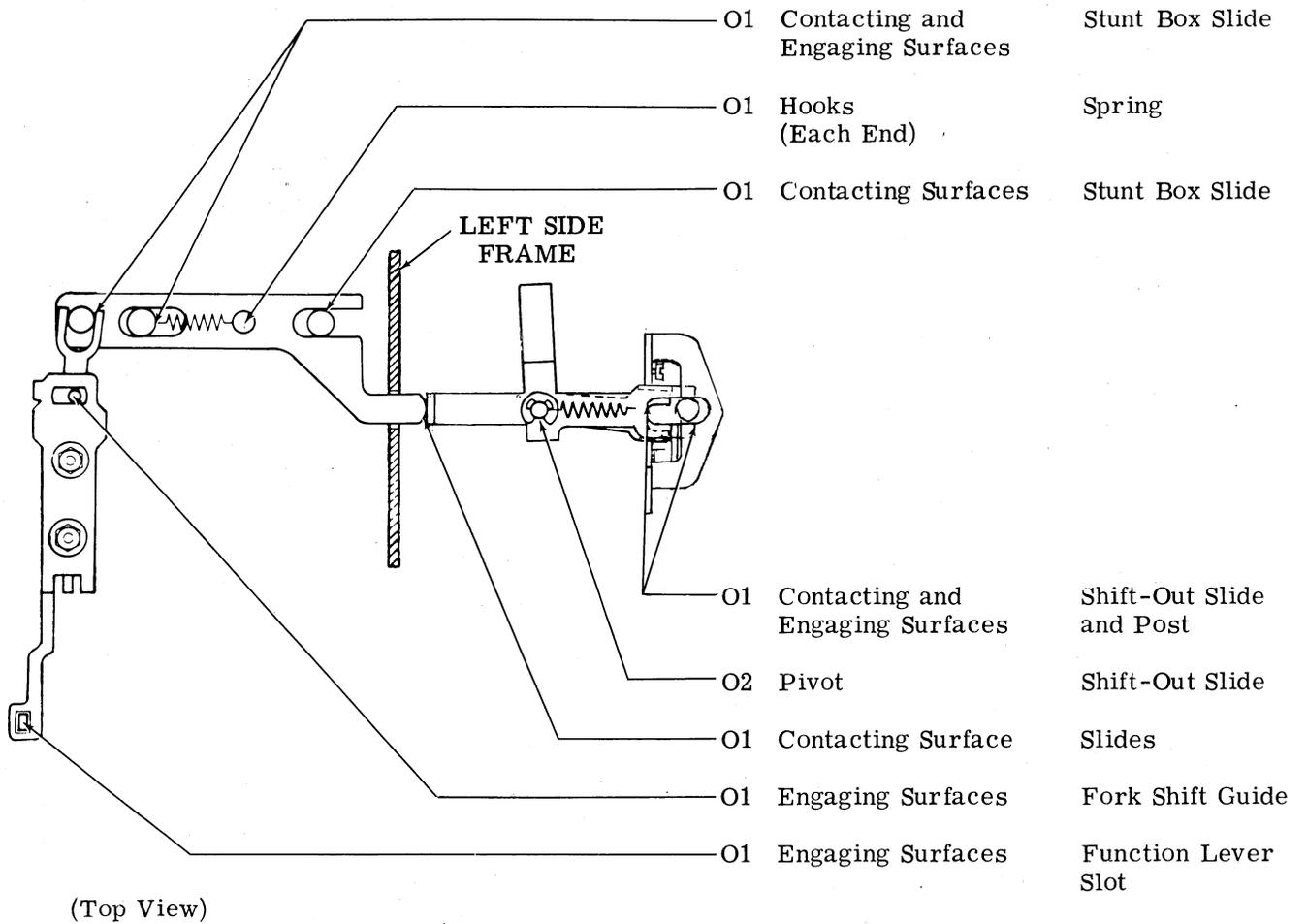
3.08 Half Forward and Half Reverse Line Feed Mechanism



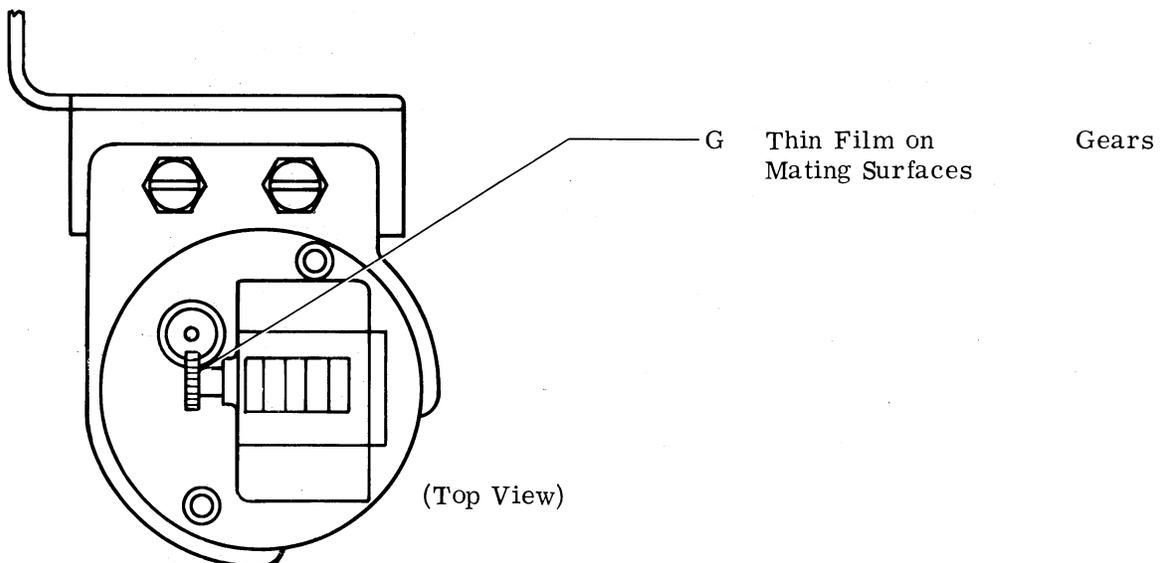
3.09 Print, Space, and Function Suppression



3.10 Shift-In Shift-Out Mechanism

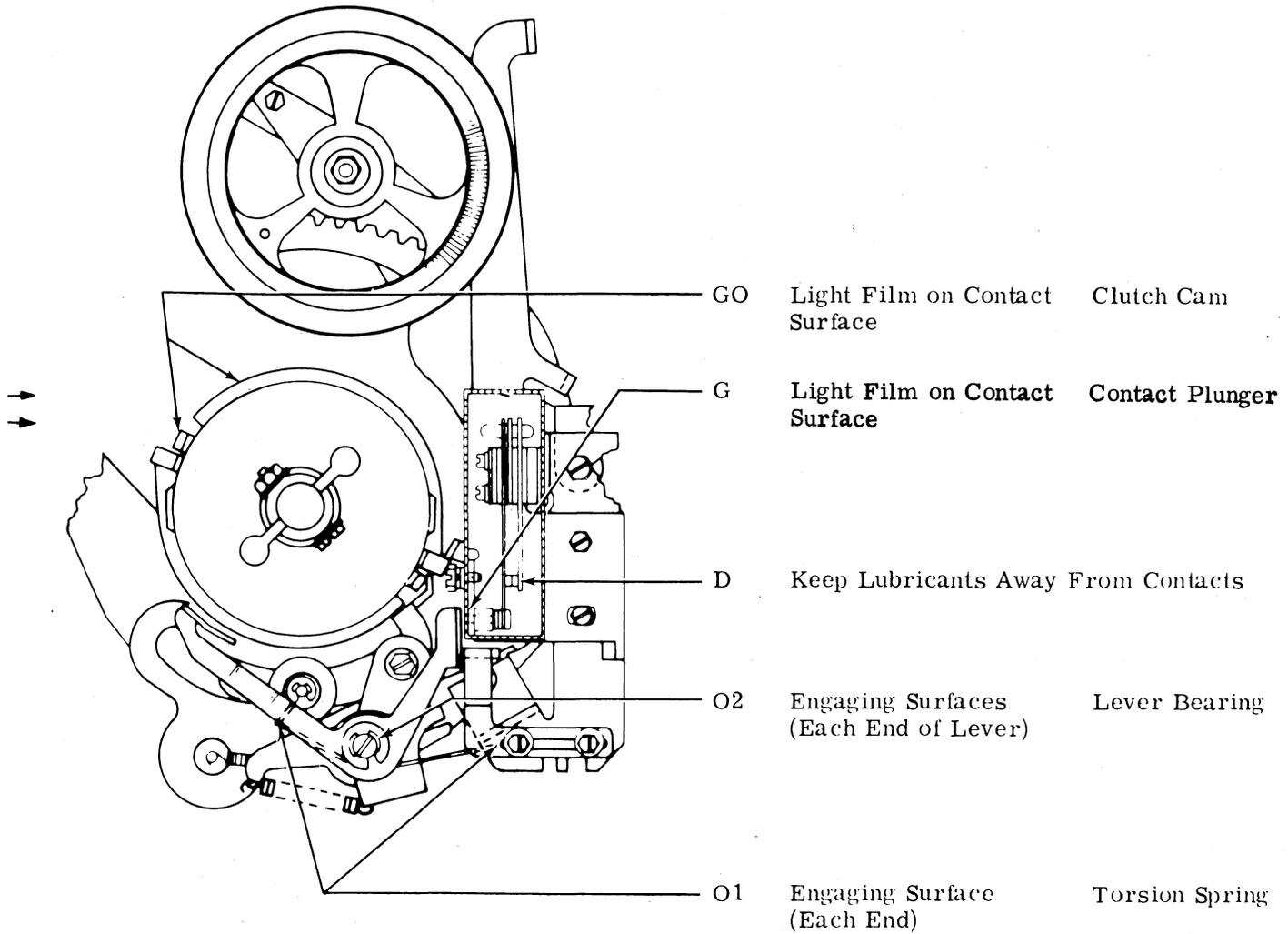


3.11 Time Elapsed Indicator



LUBRICATION AREA — RIGHT SIDE

3.12 Character Received Contact Mechanism



(Right Side View)

3.13 Two-Color Ribbon Mechanism

