

35 KEYBOARD FOR AUTOMATIC SEND-RECEIVE SETS

LUBRICATION

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1. GENERAL

1.01 This section is reissued to include recent engineering information. Since this is a general revision, marginal arrows to indicate changes have been omitted.

1.02 The 35 keyboard should be lubricated as directed in this section. The figures indicate points to be lubricated and the kind and quantity of lubricant to be used. Lubricate the

keyboard just prior to placing it in service. After a few weeks in service, relubricate to make certain that all points receive lubrication. The following lubrication schedule should be followed thereafter.

Operating Speeds		
<u>in Words per Minute</u>		<u>Lubrication Interval</u>
60		3000 hours or 1 year*
75		2400 hours or 9 months*
100		1500 hours or 6 months*

*Whichever occurs first.

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

1.04 All spring wicks and felt oilers should be saturated. The friction surfaces of all moving parts should be thoroughly lubricated. Overlubrication, however, which will permit oil or grease to drip or be thrown on other parts, should be avoided. Special care must be taken to prevent any oil or grease from getting between electrical contacts.

1.05 Apply a thick film of grease to all gears.

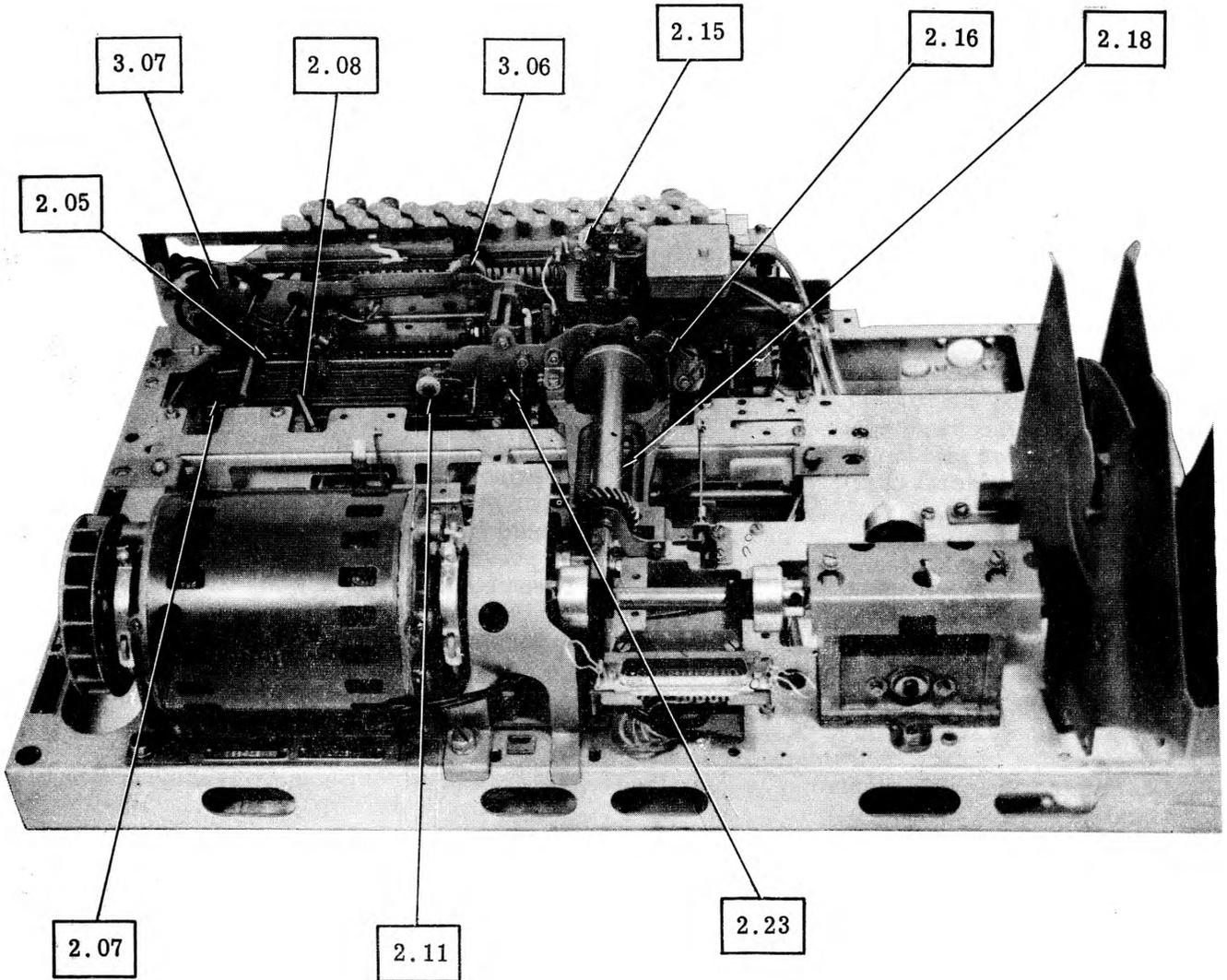
1.06 Apply oil to all cams, including the camming surfaces of each clutch disc.

1.07 The photographs show the paragraph numbers referring to particular line drawings of mechanisms and where these mechanisms are located on the unit. Parts in the line drawings are shown in an upright position unless otherwise specified.

1.08 The illustration symbols indicate the following lubrication directions:

- 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.

2. BASIC UNIT



(Rear View)

Figure 1 - Keyboard for Automatic Send-Receive Sets

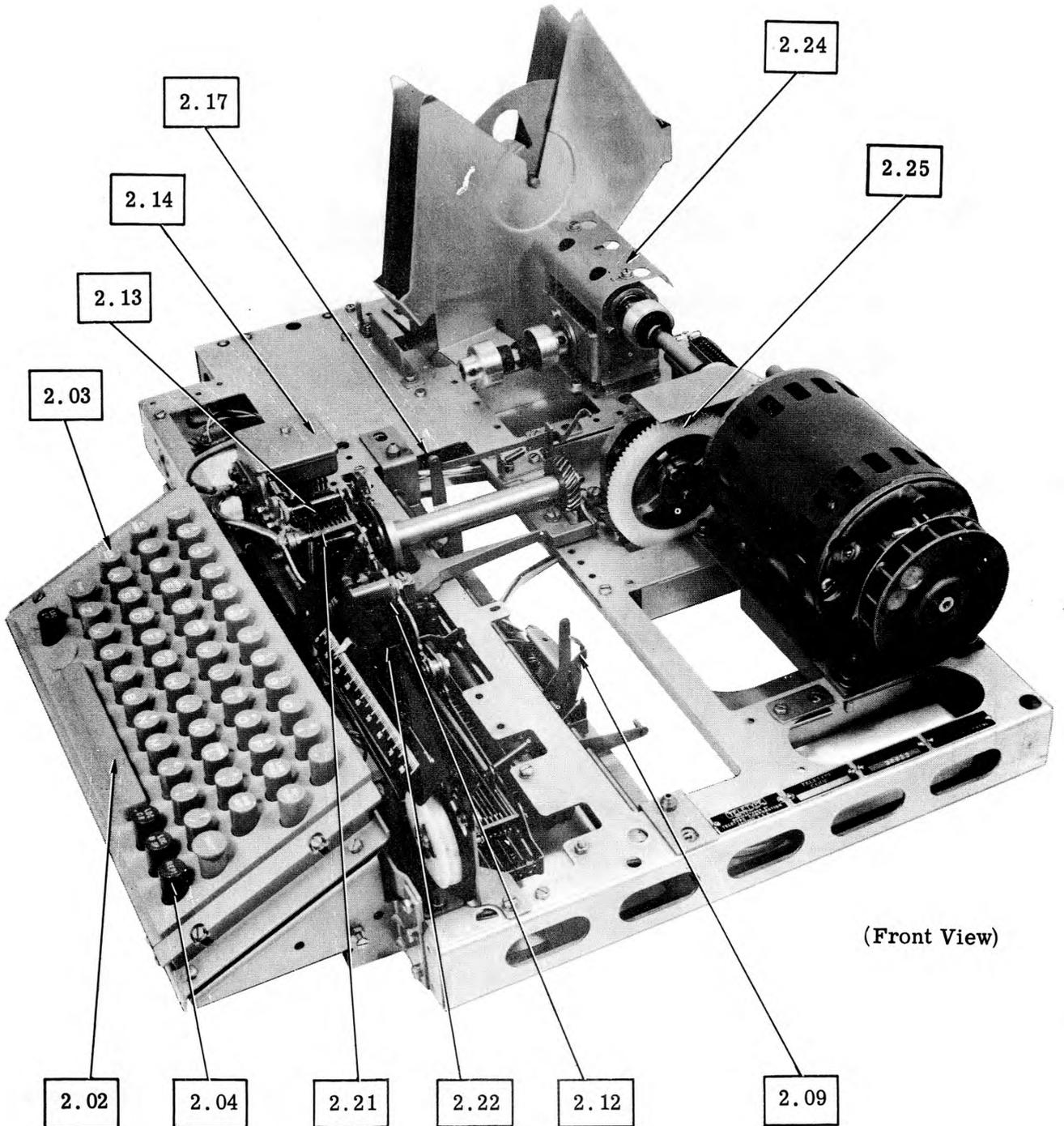
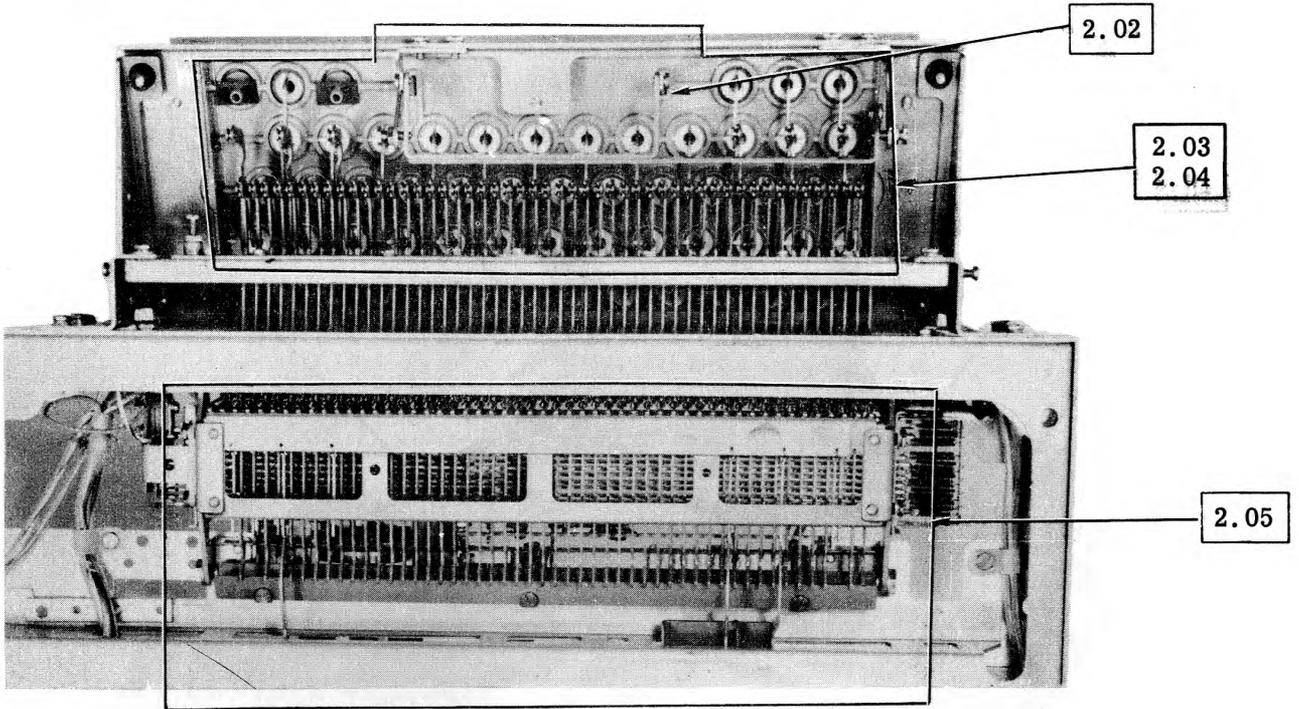


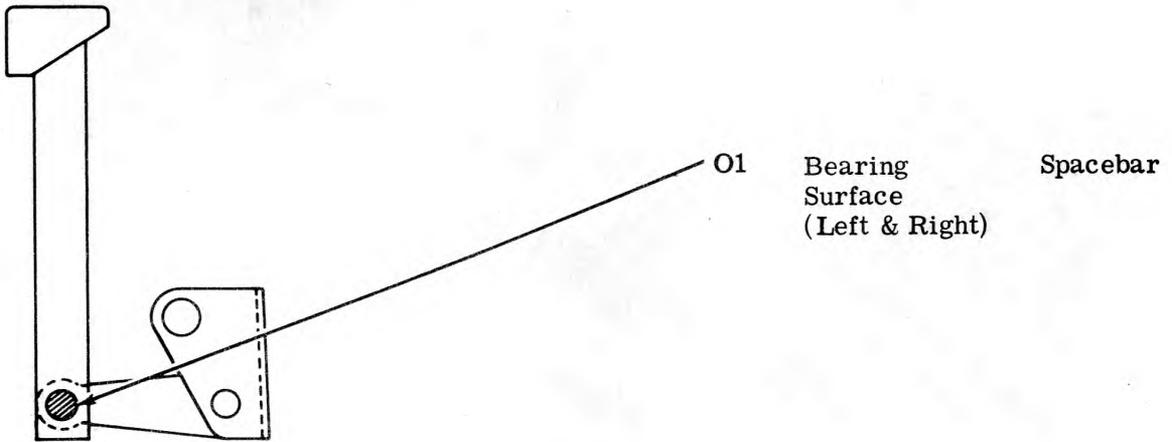
Figure 2 - Keyboard for Automatic Send-Receive Sets

2.01 Keyboard

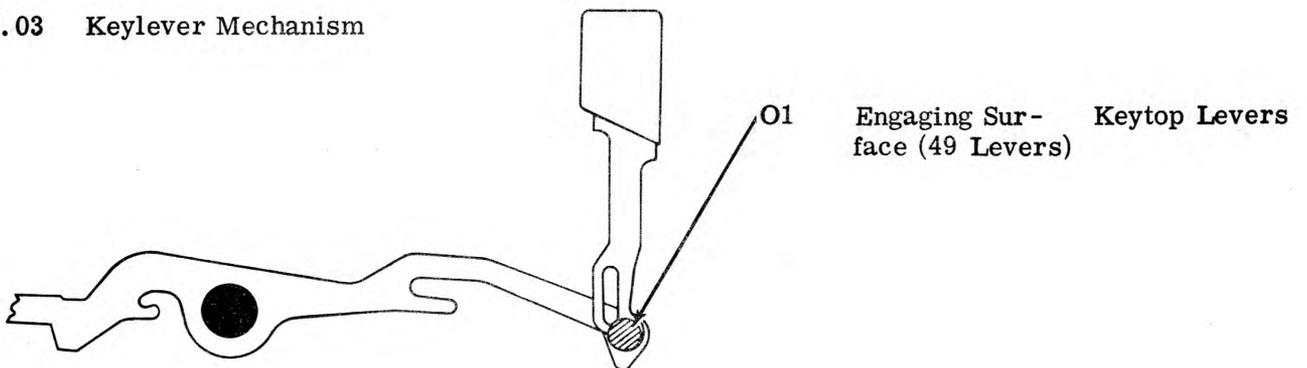
Note: Rest keyboard bottom up.



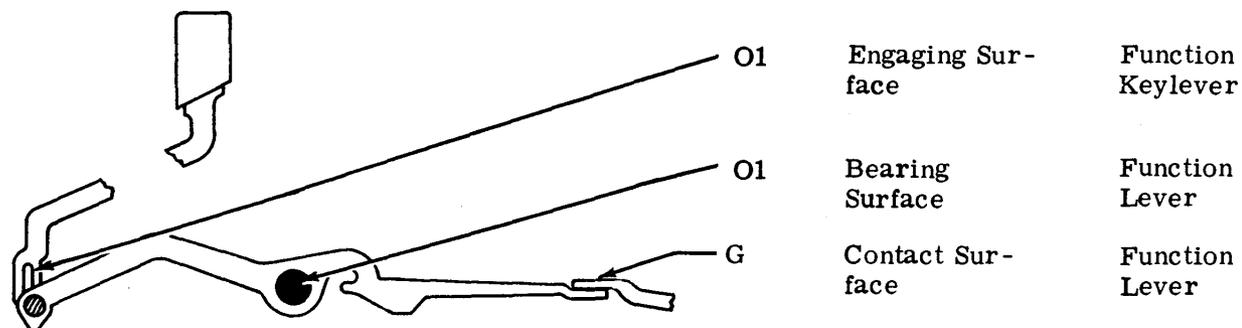
2.02 Spacebar Mechanism



2.03 Keylever Mechanism

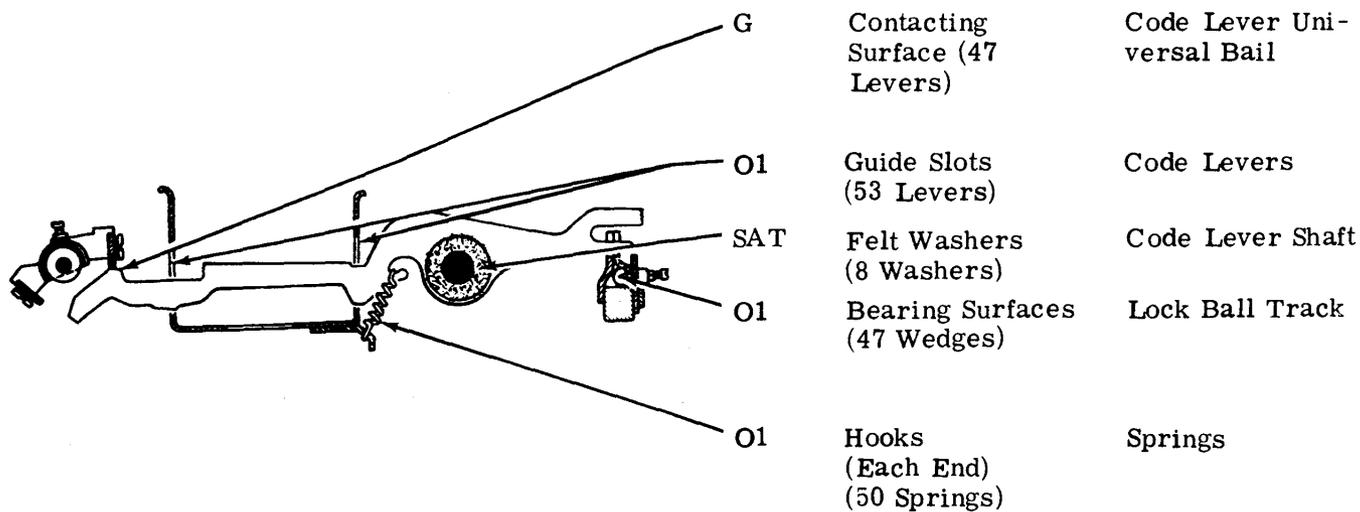


2.04 Function Lever Mechanism



- O1 Engaging Surface Function Keylever
- O1 Bearing Surface Function Lever
- G Contact Surface Function Lever

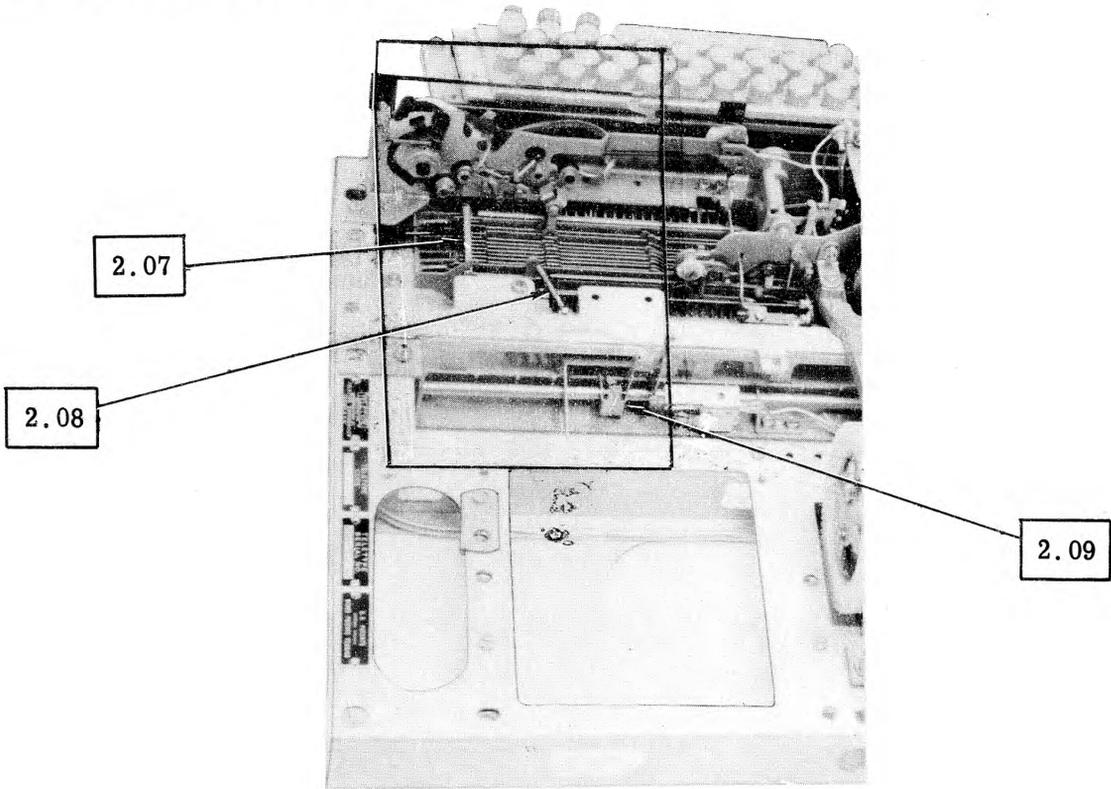
2.05 Code Lever Mechanism



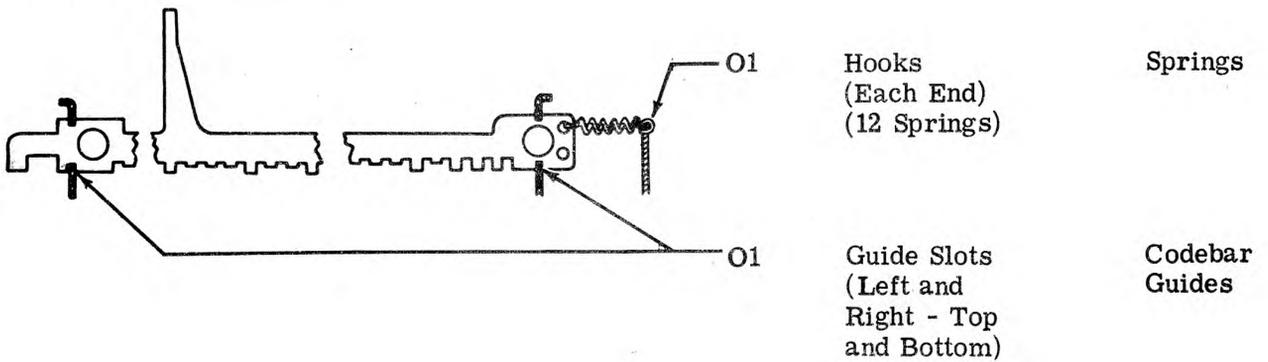
- G Contacting Surface (47 Levers) Code Lever Universal Bail
- O1 Guide Slots (53 Levers) Code Levers
- SAT Felt Washers (8 Washers) Code Lever Shaft
- O1 Bearing Surfaces (47 Wedges) Lock Ball Track
- O1 Hooks (Each End) (50 Springs) Springs

2.06 Keyboard Codebars

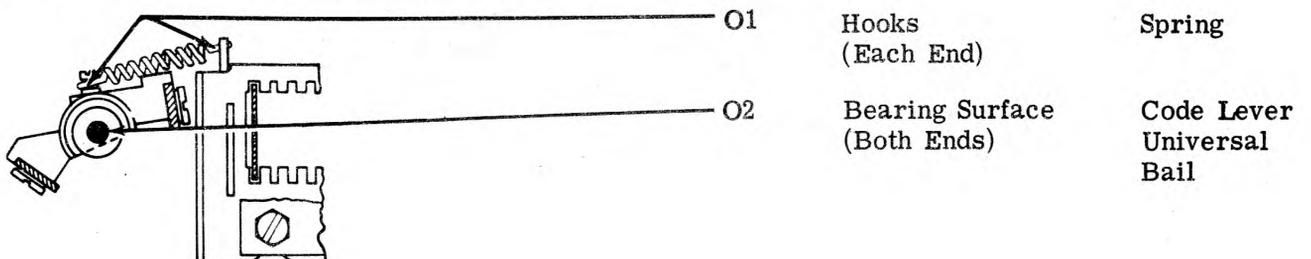
Note: Rest keyboard in upright position.



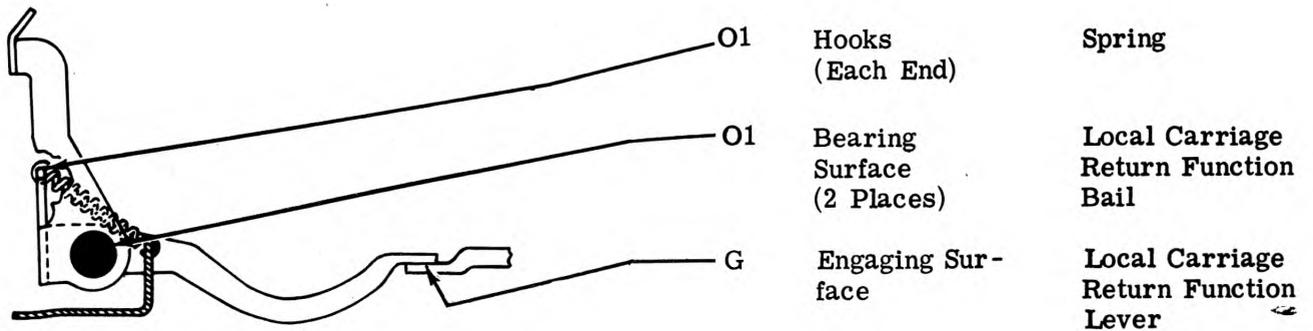
2.07 Codebar Mechanism



2.08 Code Lever Universal Bail Mechanism

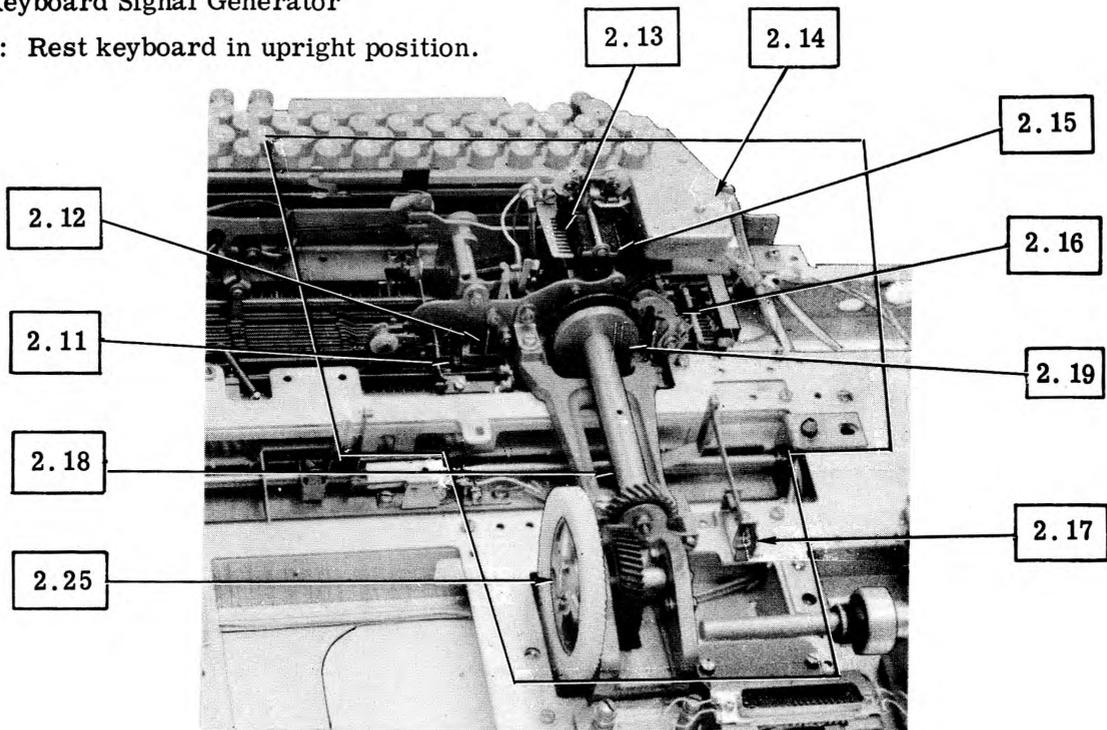


2.09 Local Carriage Return Mechanism

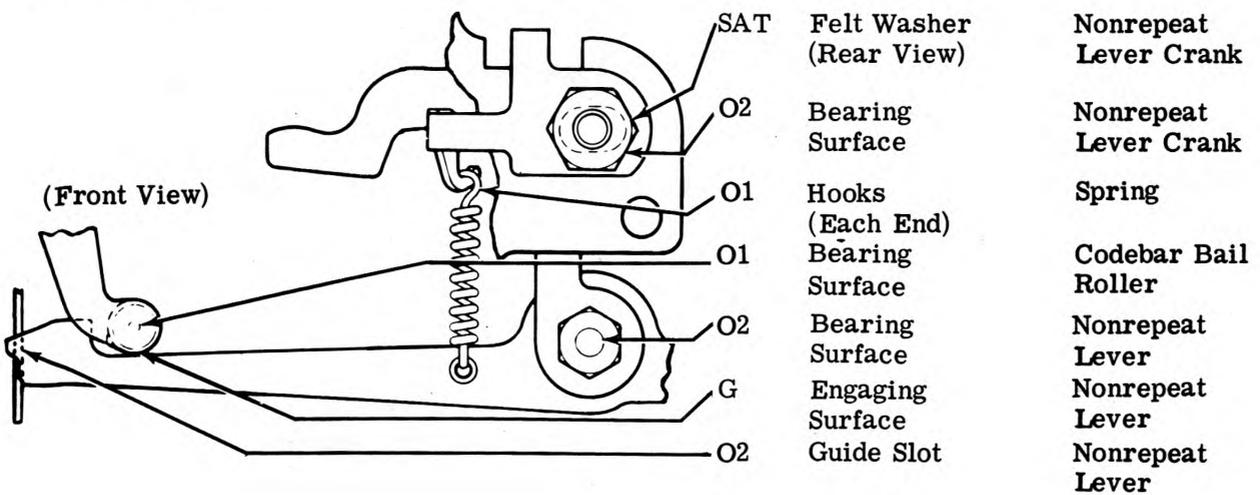


2.10 Keyboard Signal Generator

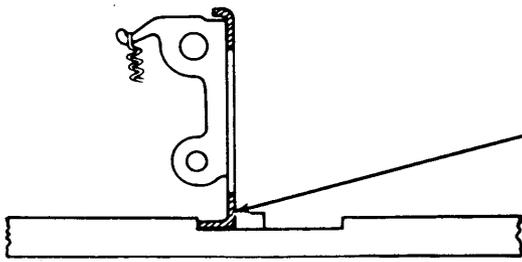
Note: Rest keyboard in upright position.



2.11 Nonrepeat Lever Mechanism

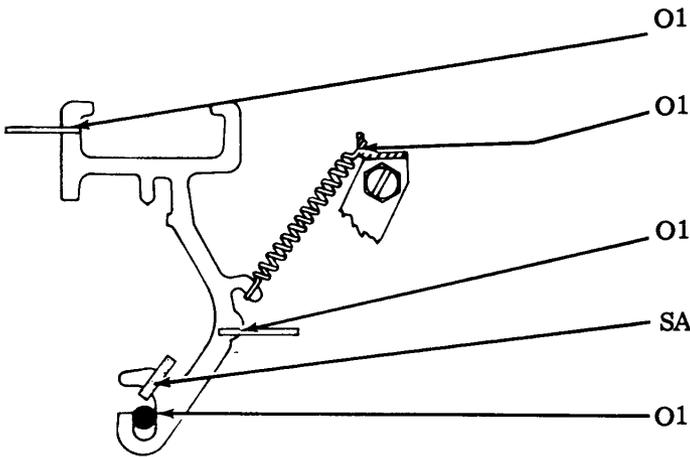


2.12 Clutch Tripbar Mechanism



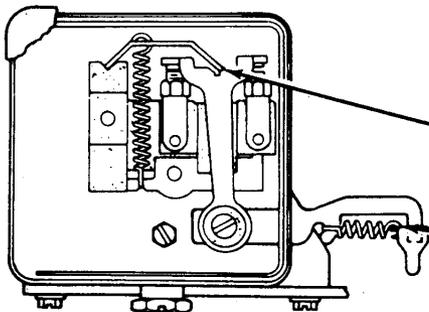
G	Slot	Clutch Tripbar Wear Plate
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2.13 Transfer Lever Mechanism



O1	Guide Slots (10 Levers)	Transfer Levers
O1	Hooks (Each End) (10 Springs)	Springs
O1	Guide Slots (10 Levers)	Transfer Levers
SAT	Felt Washers (5 Washers)	Camming Surfaces
O1	Guide Slots (10 Levers)	Transfer Levers

2.14 Contact Box

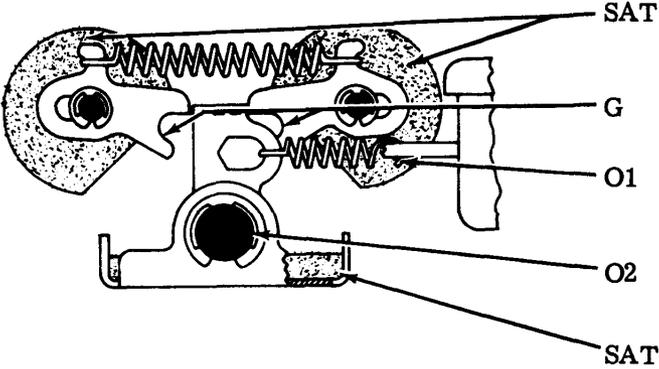


Disassembly: Remove nut and lockwasher securing contact box cover and remove cover.

G	Engaging Surface	Contact Toggle
O1	Hooks (Each End)	Spring

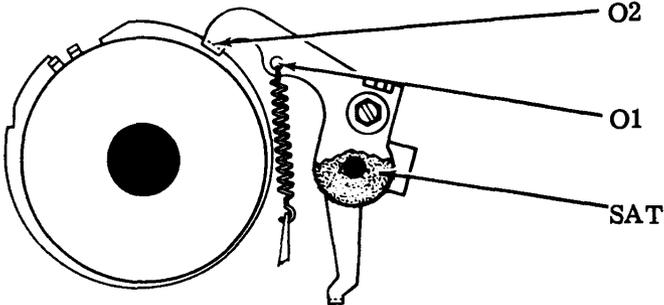
Note: The marking "DO NOT OIL" on the signal contact box cover should be interpreted literally. Portions of the mechanism should be greased as indicated, but no oil should be used.

2.15 . Transfer Bail Mechanism



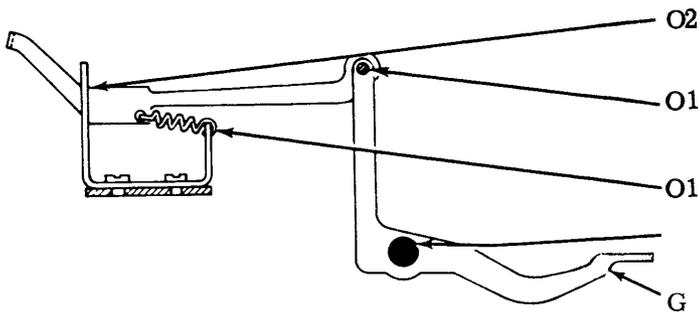
- SAT Felt Washers (2 Washers) Latches
- G Engaging Surfaces Transfer Bail
- O1 Hooks (Each End) (2 Springs) Springs
- O2 Bearing Surface (Each End) Transfer Bail
- SAT Oil Wick Transfer Bail

2.16 Keyboard Clutch Mechanism



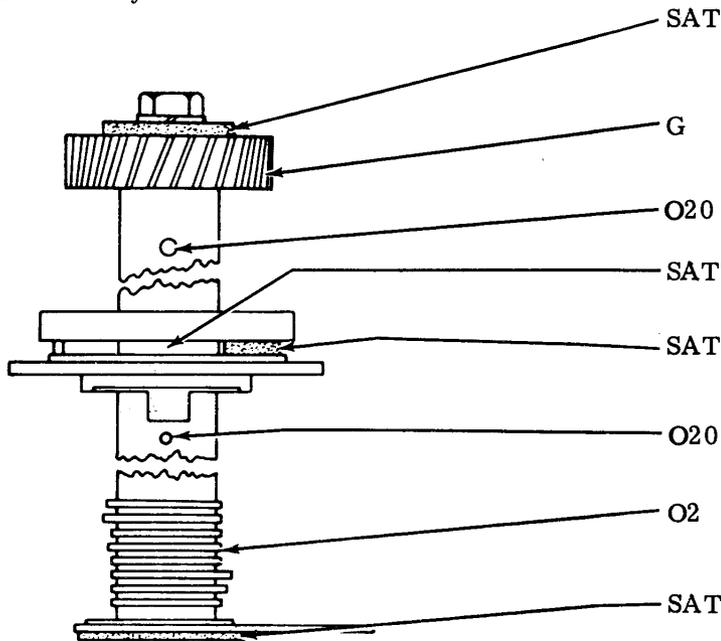
- O2 Latching Surface Clutch Stop Lever and Clutch Latch-lever
- O1 Hooks (Each End) (2 Springs) Springs
- SAT Felt Washers (2 Front & Rear) Clutch Tripbail

2.17 Local Line Feed Mechanism



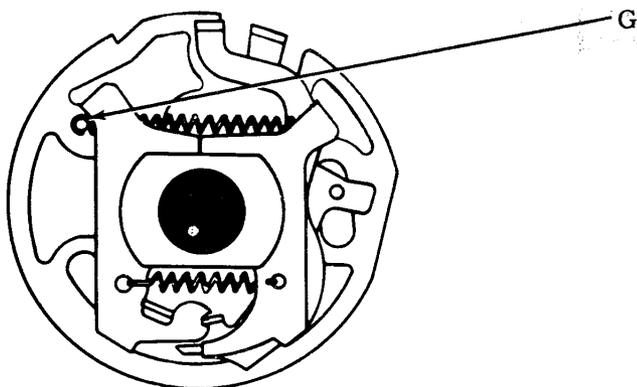
- O2 Guide Slot Local Line Feed Trip Link
- O1 Bearing Surface Local Line Feed Function Lever
- O1 Hooks (Each End) Spring
- G Bearing Surface Function Bail
- Engaging Surface Local Line Feed Function Lever

2.18 Keyboard Shaft Mechanism



- SAT Felt Washer Signal Generator Shaft
- G Gear Teeth Signal Generator Shaft
- O20 Oil Hole Signal Generator Shaft
- SAT Internal Mechanism Keyboard Clutch
- SAT Felt Wick Keyboard Clutch
- O20 Oil Hole Signal Generator Cam
- O2 Camming Surface Each Cam Signal Generator Cam
- SAT Felt Washer Signal Generator Shaft

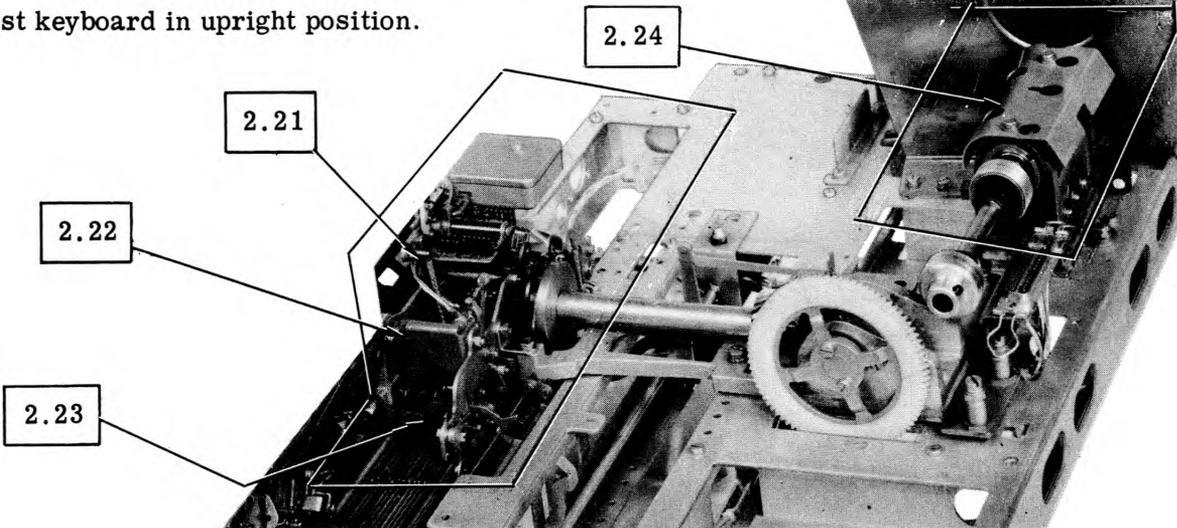
2.19 Keyboard Clutch



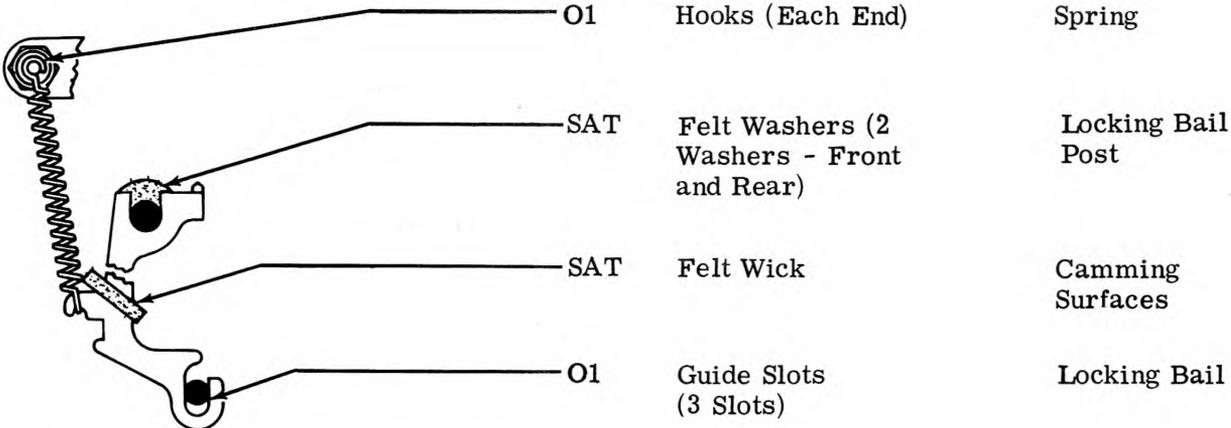
- G Hooks (Each End) Clutch Shoe
- Clutch Shoe Lever Spring

2.20 Keyboard Signal Generator and Gear Assembly

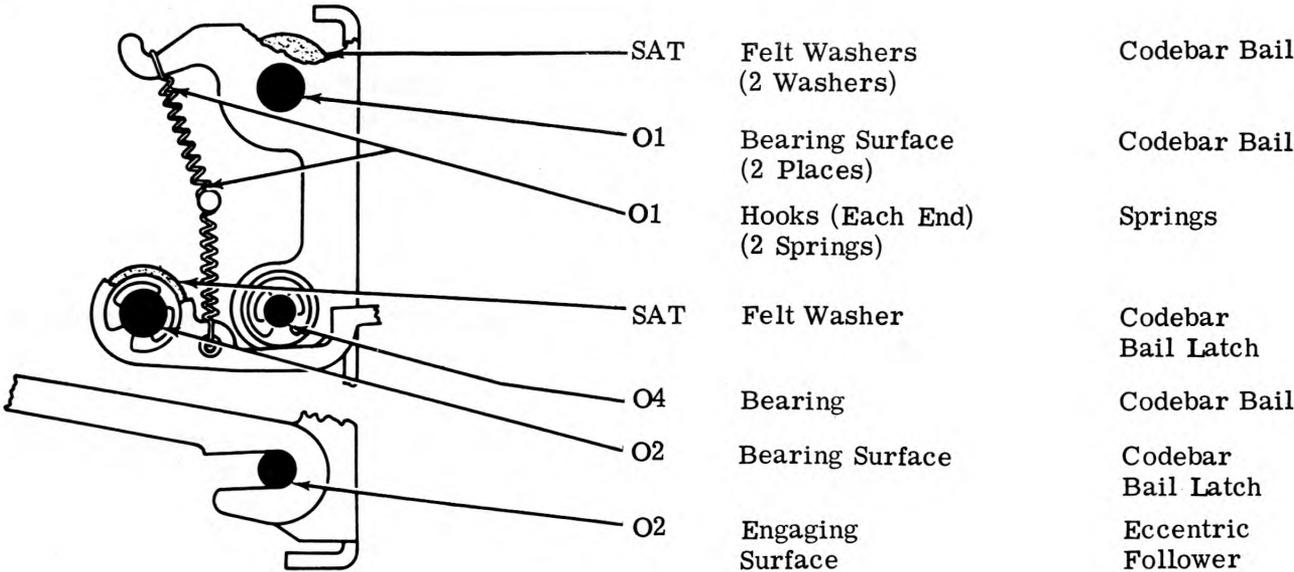
Note: Rest keyboard in upright position.



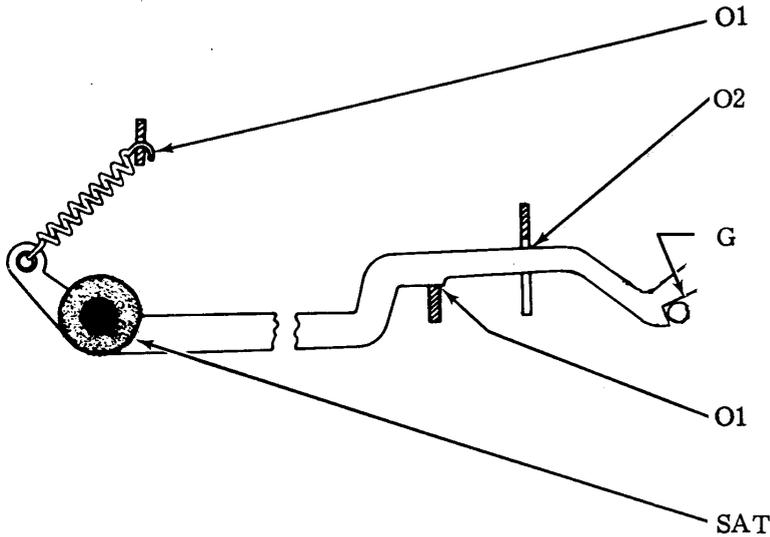
2.21 Locking Bail Mechanism



2.22 Codebar Bail Mechanism

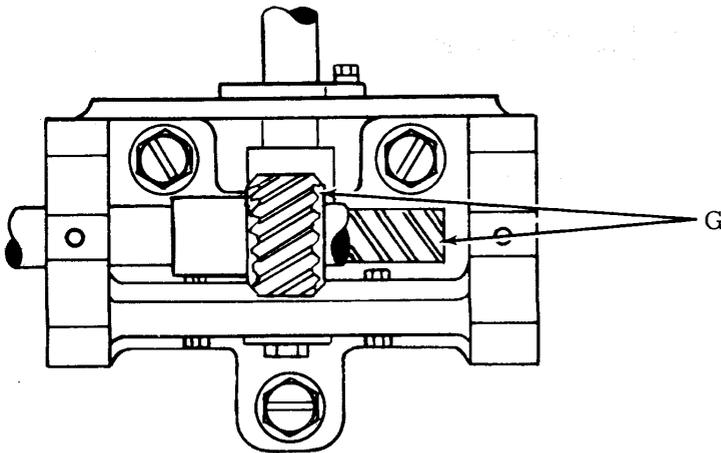


2.23 Universal Bail Latchlever Mechanism



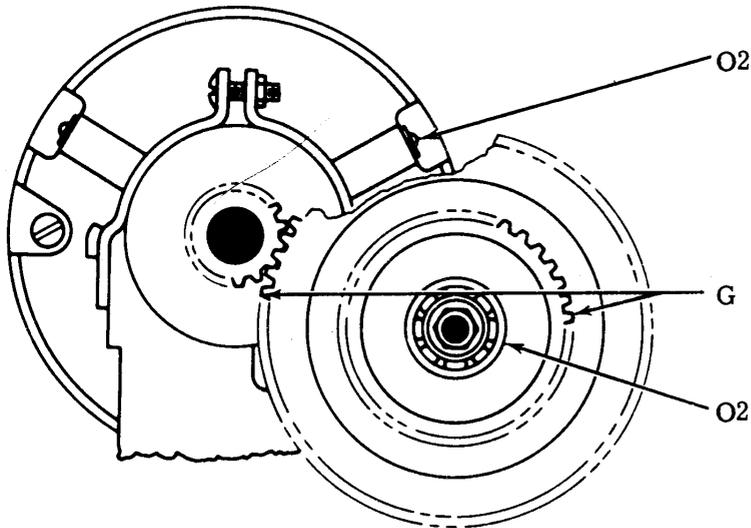
- | | |
|--------------------------------|---------------------------|
| Hooks (Each End) | Spring |
| Guide Slot (Each Side of Slot) | Universal Bail Latchlever |
| Engaging Surface | Codebar Bail Extension |
| Engaging Surface | Reset Bail Latch |
| Felt Washer | Universal Bail Latchlever |

2.24 Rear Bearing Bracket Gear Mechanism



- | | |
|------------|---------------------------|
| Gear Teeth | Rear Bearing Bracket Gear |
|------------|---------------------------|

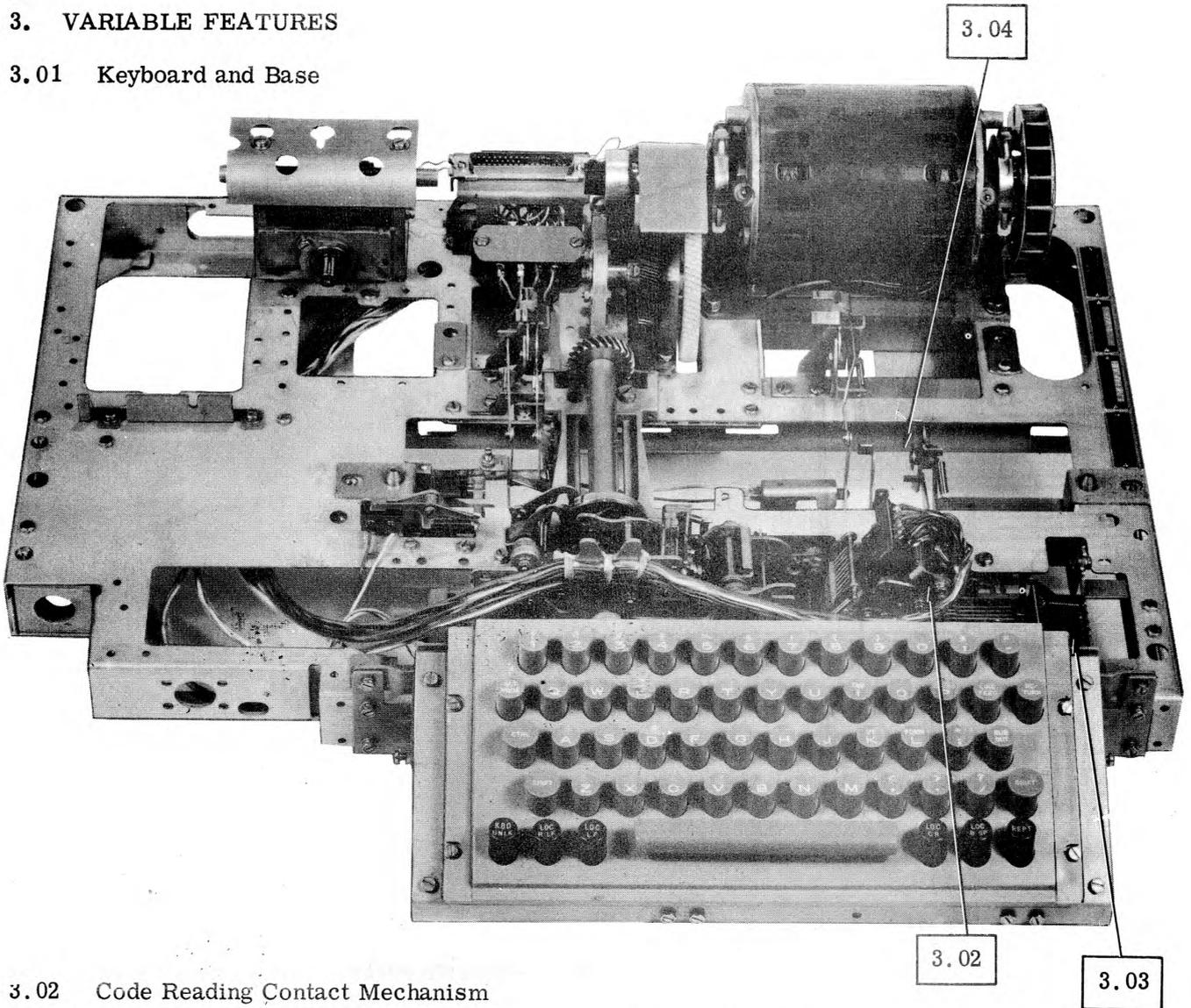
2.25 Intermediate Gear Mechanism



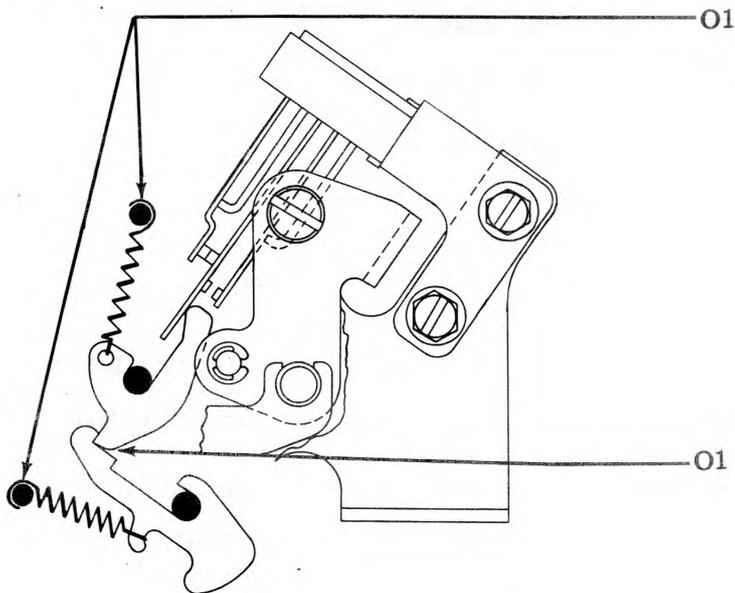
- | | |
|----------------------------------|-------------------------|
| Oiler (Each End, Right and Left) | Motor Shaft |
| Teeth (2 Gears) | Intermediate Gears |
| Ball Bearing (2 Bearings) | Intermediate Gear Shaft |

3. VARIABLE FEATURES

3.01 Keyboard and Base



3.02 Code Reading Contact Mechanism



O1 Hooks
(Each End)

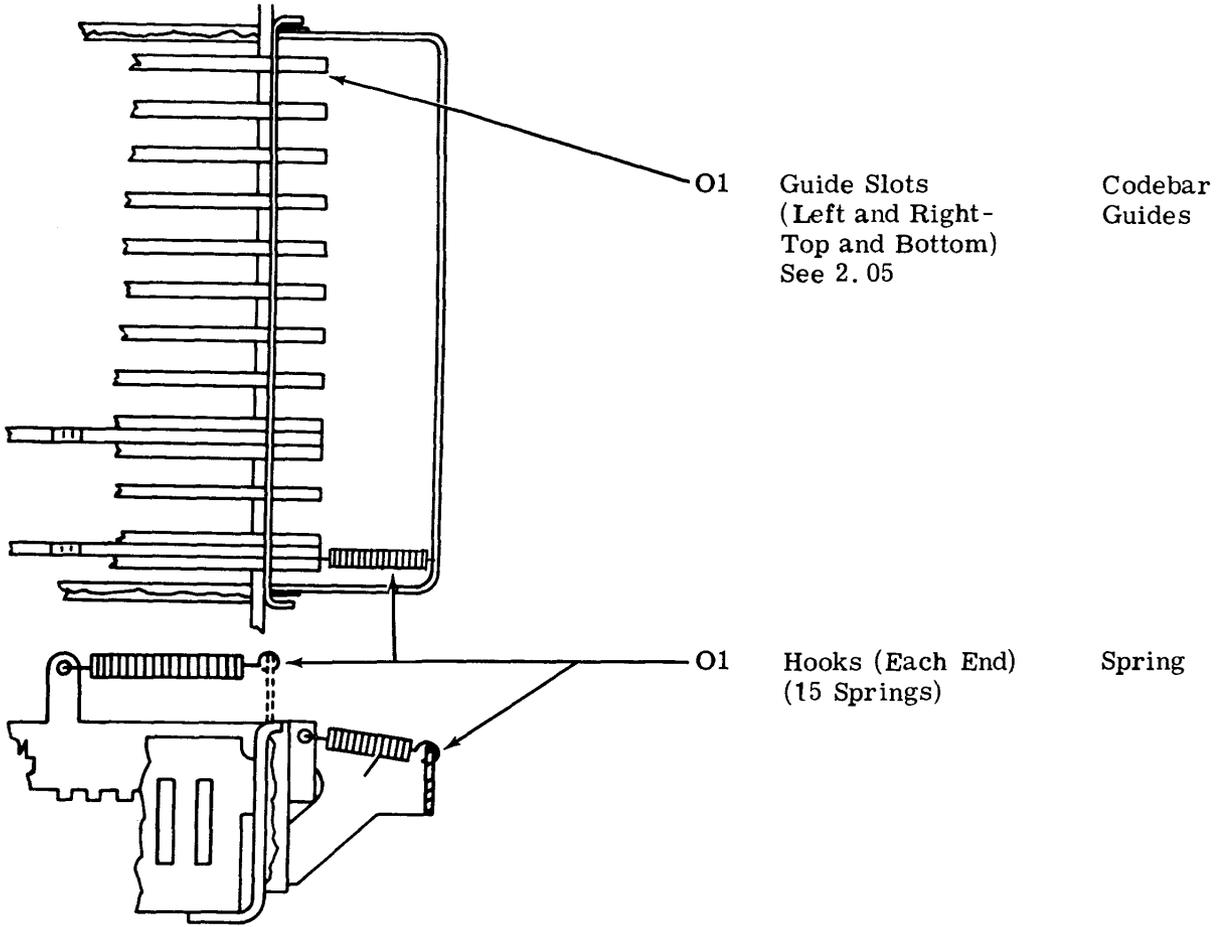
Spring

O1 Engaging
Surface

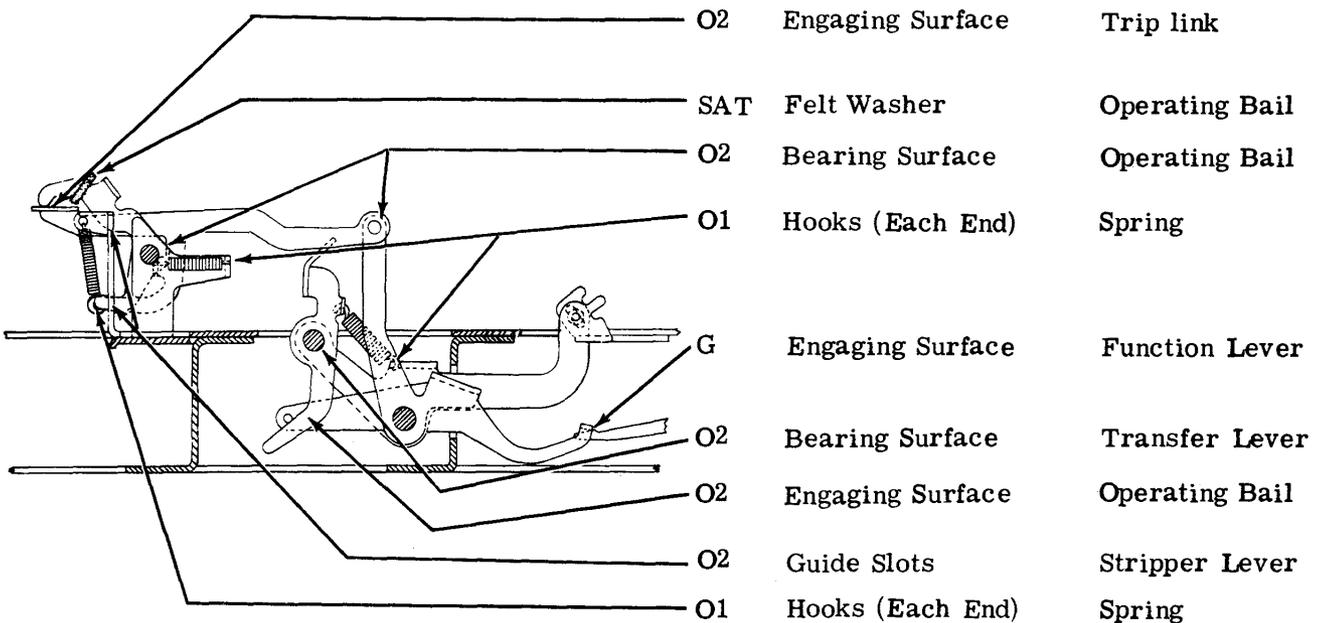
Intermediate
Lever

Note: Keep contacts free of lubricant.

3.03 Codebar Mechanism (Even Parity)

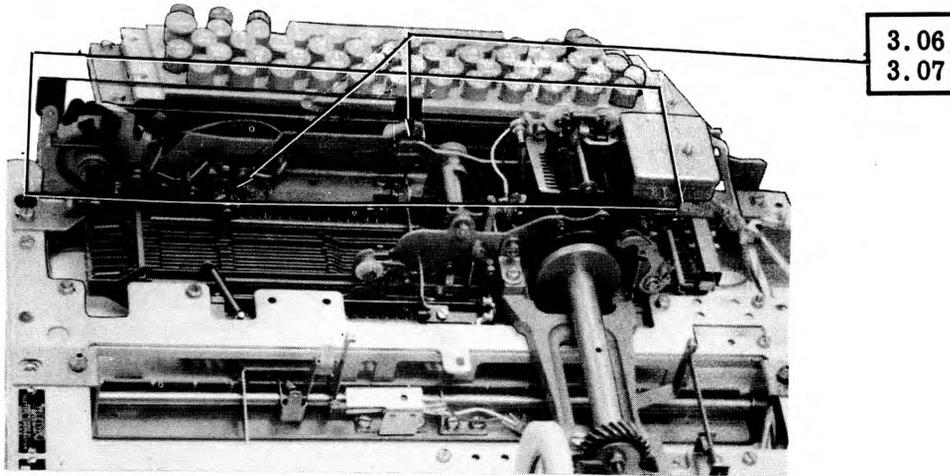


3.04 Local Backstop Mechanism

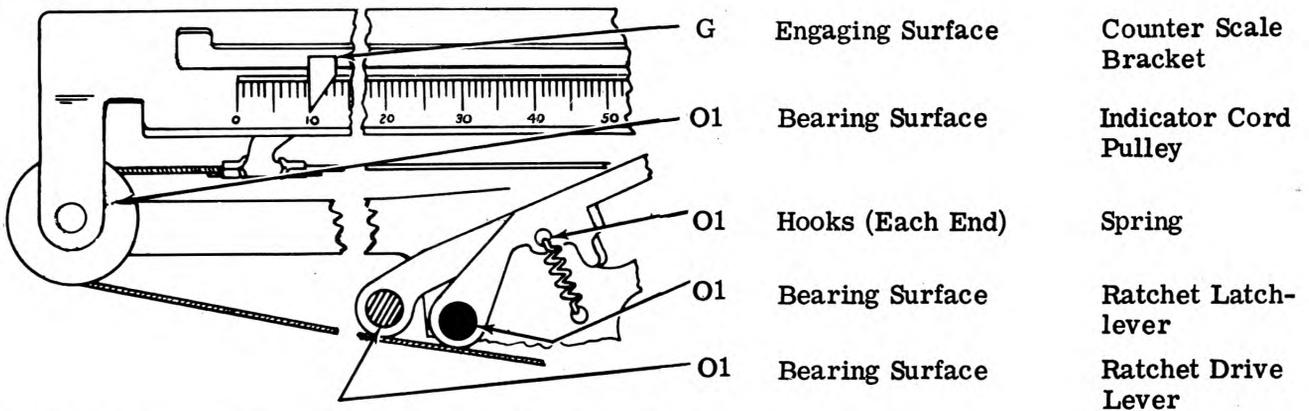


3.05 Keyboard Character Counter

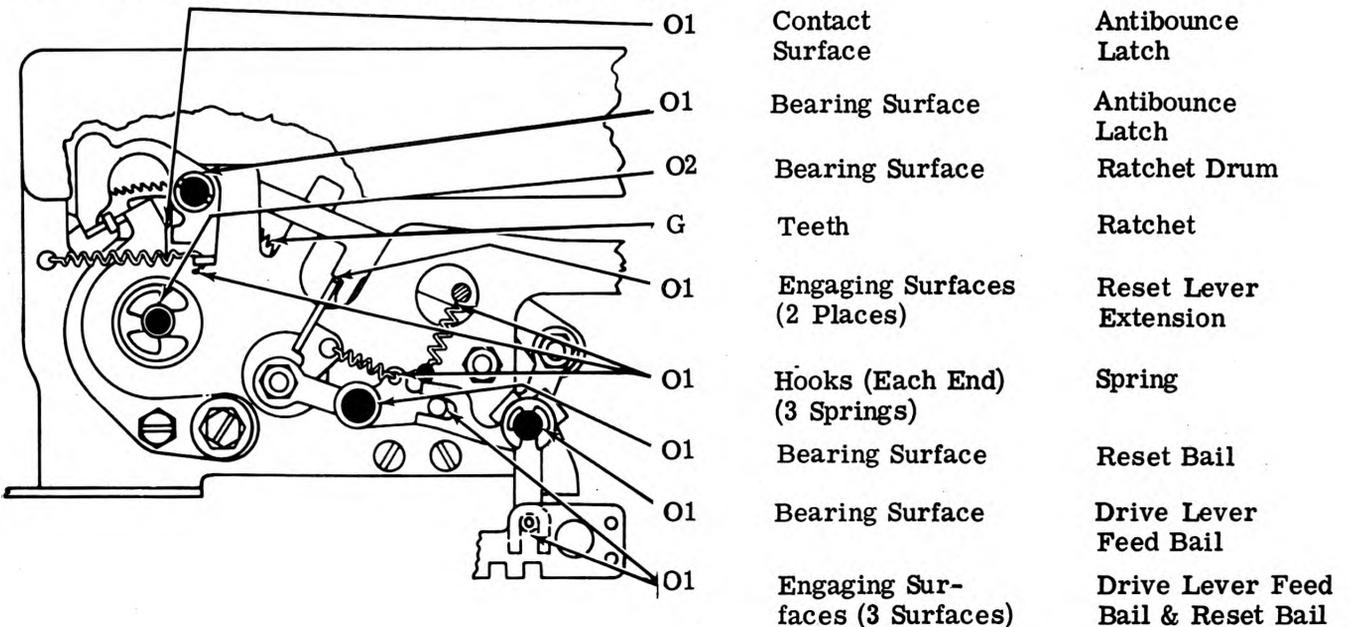
Note: Rest keyboard in upright position.



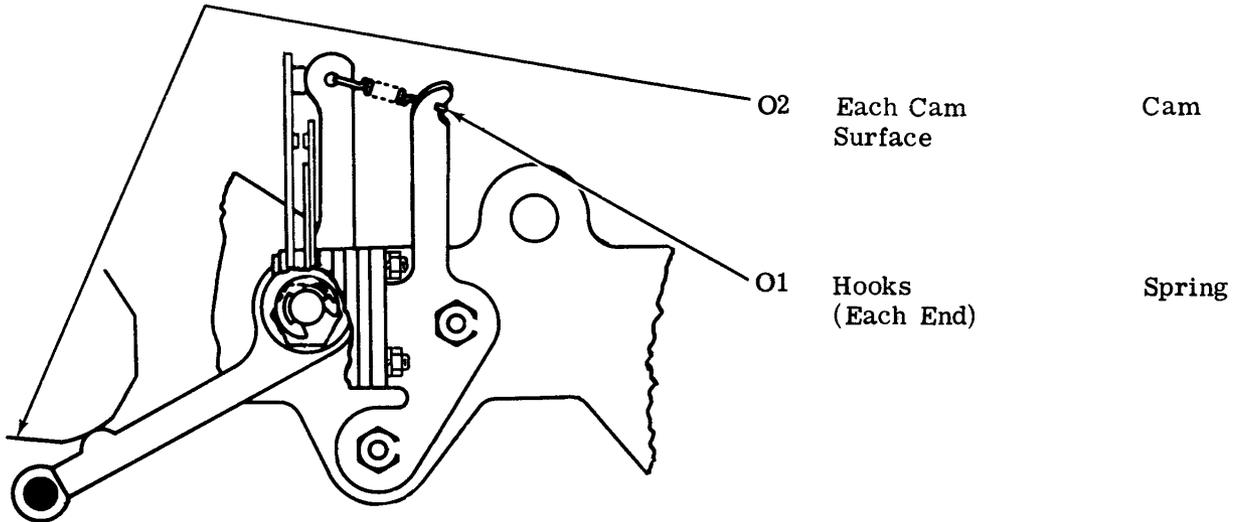
3.06 Character Counter Mechanism



3.07 Character Counter Mechanism (continued)



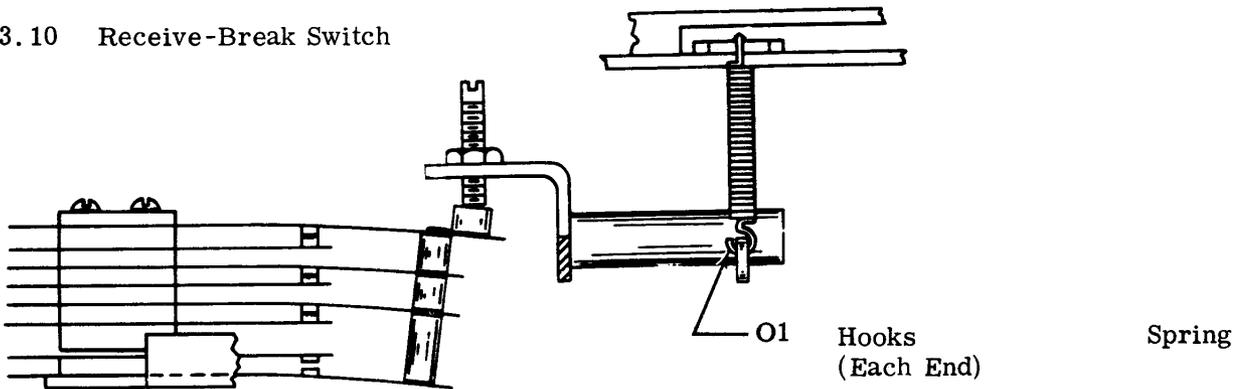
3.08 Timing Contact Mechanism



3.09 Auxiliary Contact

USE 3.08

3.10 Receive-Break Switch



3.11 Local Single Line Feed Mechanism

