

28E AND 28H TRANSMITTER DISTRIBUTOR UNIT (LXD)

LUBRICATION

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1. GENERAL

1.01 This section provides lubrication information for the 5-level 28E and 28H transmitter distributor unit. It is reissued to add recent engineering changes and to update the format of the literature. Since this is a general revision, marginal arrows, ordinarily used to show changes and additions, are omitted. Information pertaining to lubrication of the 8-level unit is found in Section 574-225-701.

**CAUTION: THE UNIT IS SHIPPED WITH OIL RESERVOIR EMPTY. REMOVE COVER PLATE FOR ACCESS AND FILL OIL RES-**

**ERVOIR PRIOR TO INSTALLATION. MAINTAIN AN ADEQUATE SUPPLY IN THE OIL RESERVOIR AT ALL TIMES.**

1.02 In this section, the general areas of the unit are shown by photographs. The specific points of lubrication are indicated by line drawings and descriptive text. The symbols in the text indicate the following directions:

- O1 Apply one drop of oil.
- O2 Apply two drops of oil.
- O3 Apply three drops of oil.
- O6 Apply six drops of oil.
- G Apply thin coat of grease.
- SAT Saturate with oil (felt washers, cam oilers, and wicks).

**CAUTION: REMOVE POWER FROM EQUIPMENT BEFORE LUBRICATING THE UNIT.**

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 The unit should be thoroughly lubricated, but over-lubrication which allows oil to drip or grease to be thrown on other parts, must be avoided. Exercise special care to prevent lubricant from getting between armature and pole faces. Keep all electrical contacts free from oil or grease.

1.05 The following general instructions supplement the specific lubricating points illustrated in this section.

- (1) Apply one drop of oil to all spring hooks.
- (2) Apply a light film of oil to all cam surfaces.
- (3) Apply a coat of grease to all gears.
- (4) Saturate all felt washers, cam oilers, and wicks.
- (5) Apply oil to all pivot points.
- (6) Apply oil to all sliding surfaces.

1.06 The transmitter distributor unit should be lubricated before being placed in service or prior to storage. After a few weeks of service, relubricate to make certain that all specified points have received lubricant. Thereafter, the following schedule should be followed:

<u>OPERATING SPEED</u>	<u>LUBRICATION INTERVAL</u>
60 wpm	3000 hours or 1 year*
75 wpm	2400 hours or 9 months*
100 wpm	1500 hours or 6 months*

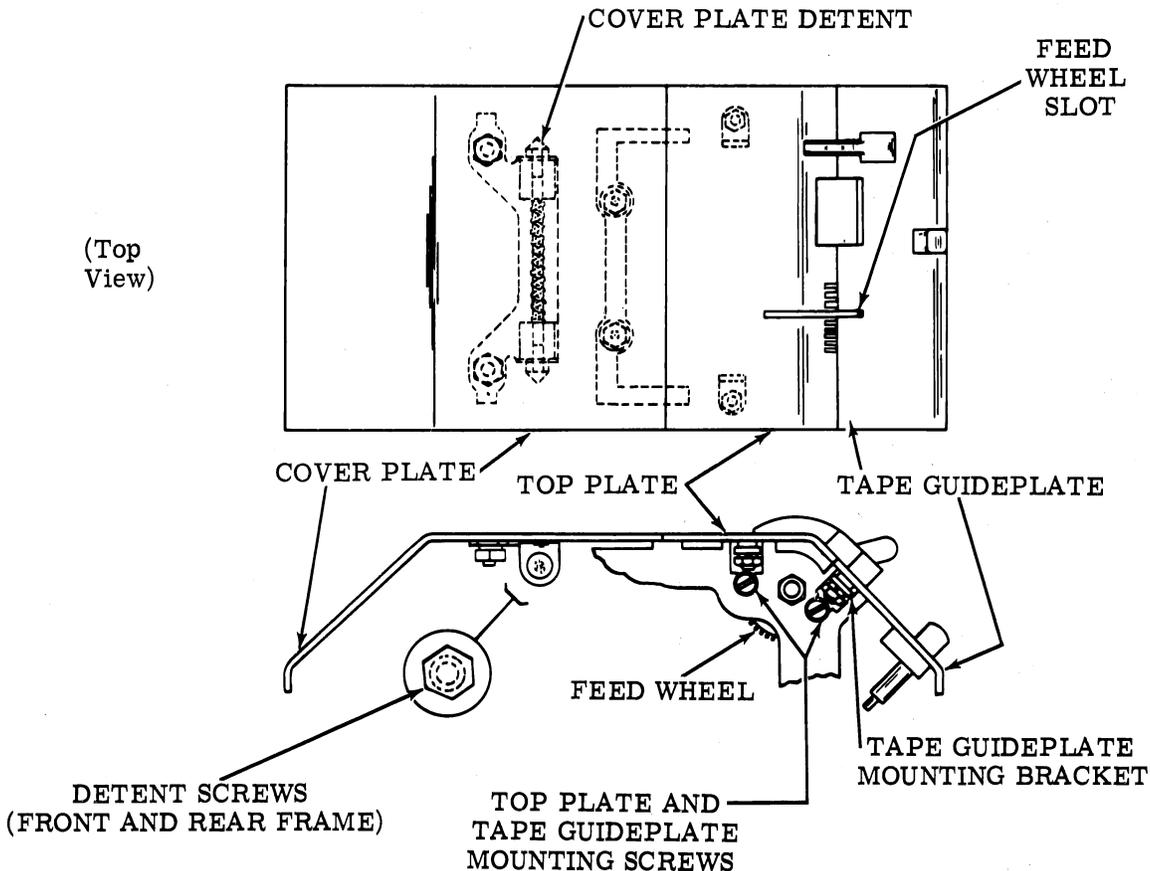
\*Whichever occurs first.

1.07 The gold-plated contact assembly is a low voltage, low current application. Clean contacts with twill jean (KS2423) at regular lubricating intervals.

1.08 For information pertaining to lubrication of associated parts — ie, motors, bases, etc, refer to the appropriate sections.

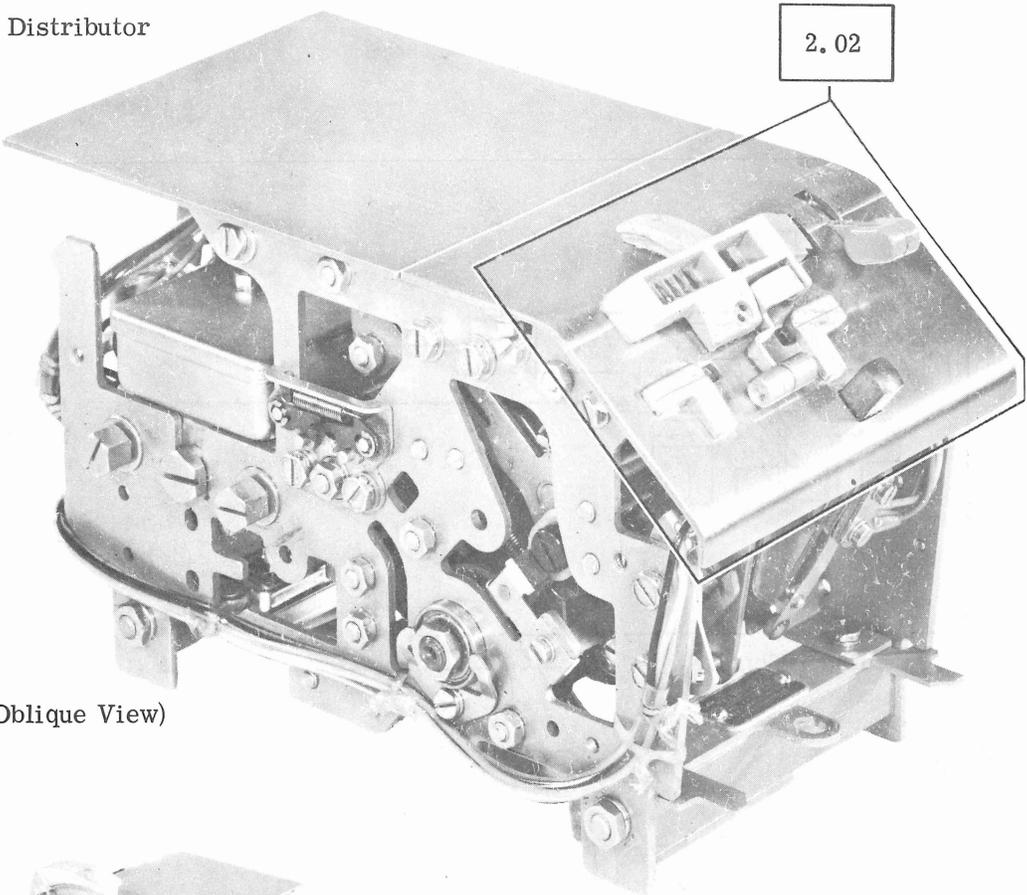
1.09 Instructions

- (1) Removing Cover Plate: Lift left end of plate to release the detent fasteners. Slide cover plate toward the left. Replace cover in the reverse order.
- (2) Removing Top Plate: Loosen the front and rear mounting screws. Lift top plate upward.
- (3) Remaining Tape Guideplate: Loosen the tape guideplate mounting screws. Lift the tape guideplate.
- (4) Removing Transmitter Distributor Assembly: Remove the screws which attach the unit to the base, and lift unit up to disengage the gears. Disconnect electrical plug.

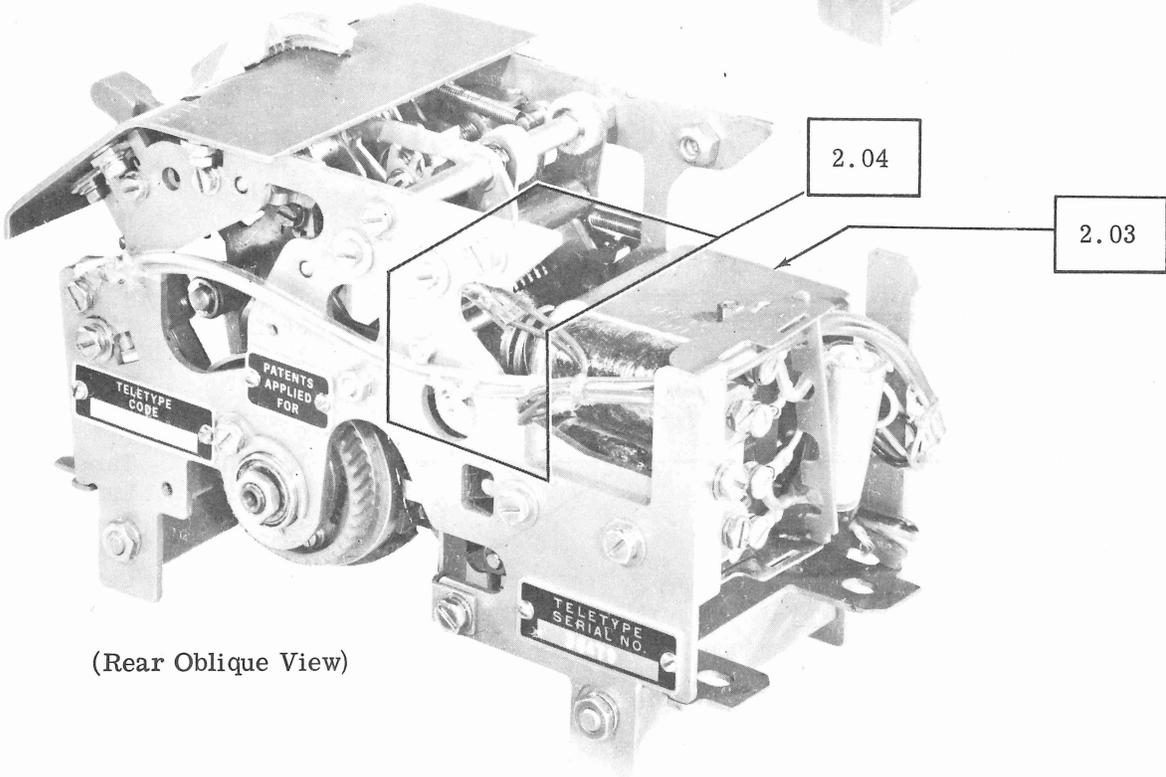


2. BASIC UNIT

2.01 Transmitter Distributor

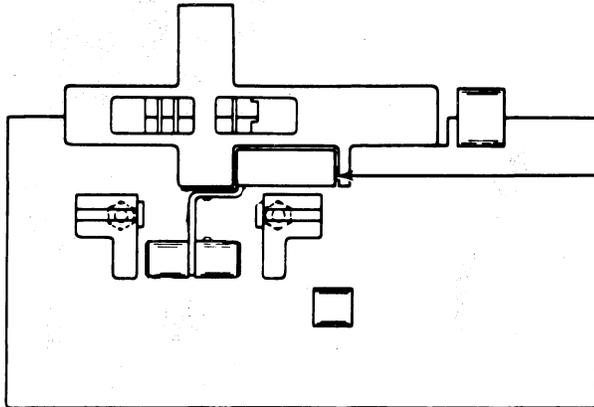


(Front Oblique View)



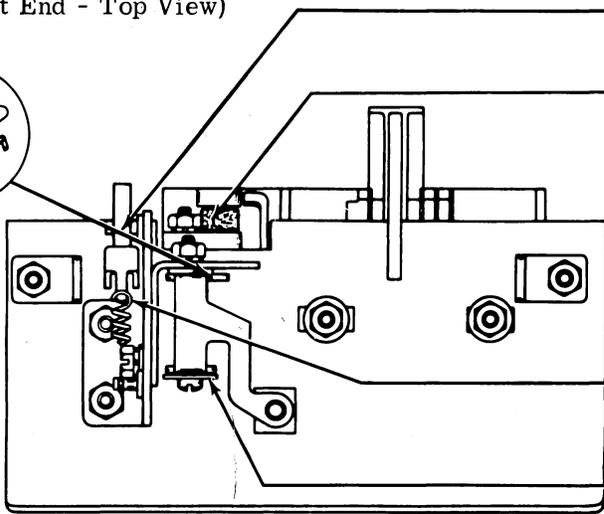
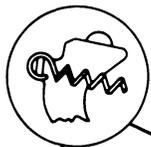
(Rear Oblique View)

2.02 Tape Guideplate



(Right End - Top View)

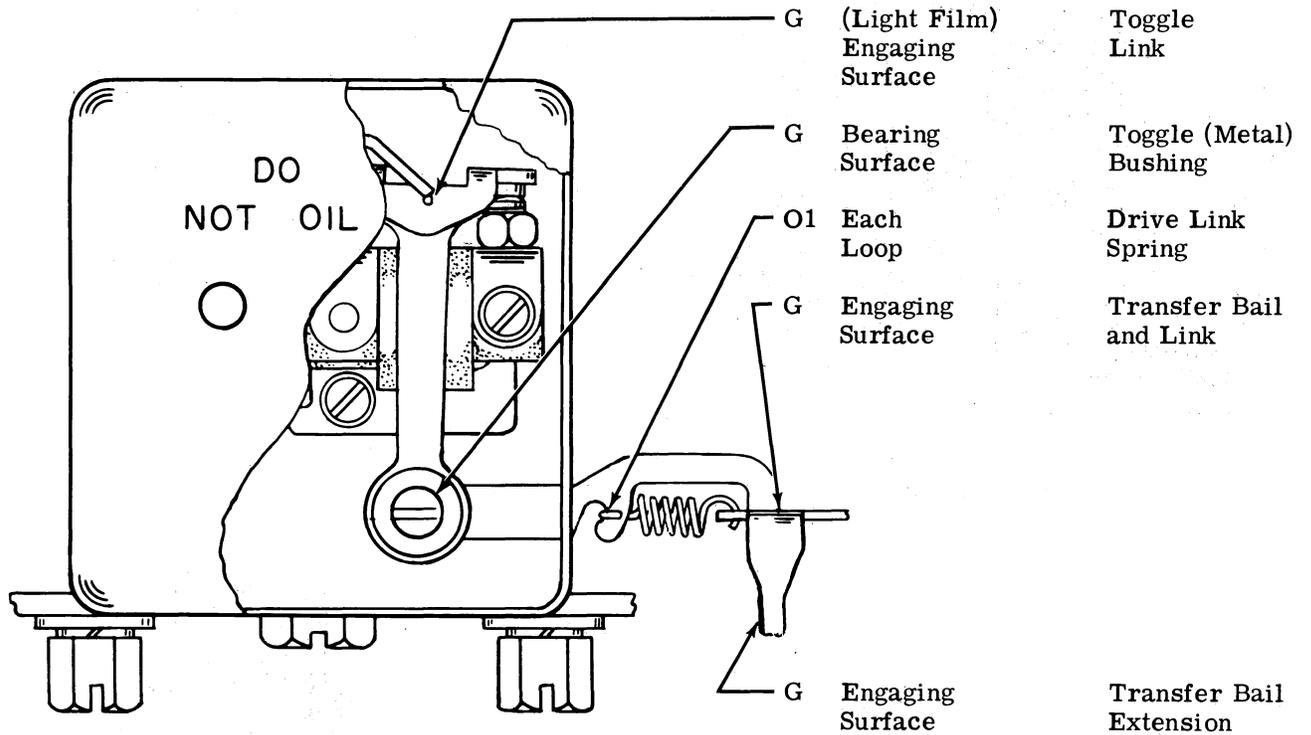
O1 Bearing Surface Tight Tape Bail



(Right End - Bottom View)

G Detent Teeth Control Lever  
 SAT Felt Washer Tape Lid Shaft  
 O1 Each Loop Start-Stop Detent Bail  
 O1 Bearing Surface Tape Lid Release Bail  
 G Latching Surface Tape Lid Latch  
 O1 Each Loop Tape Lid Latch Spring

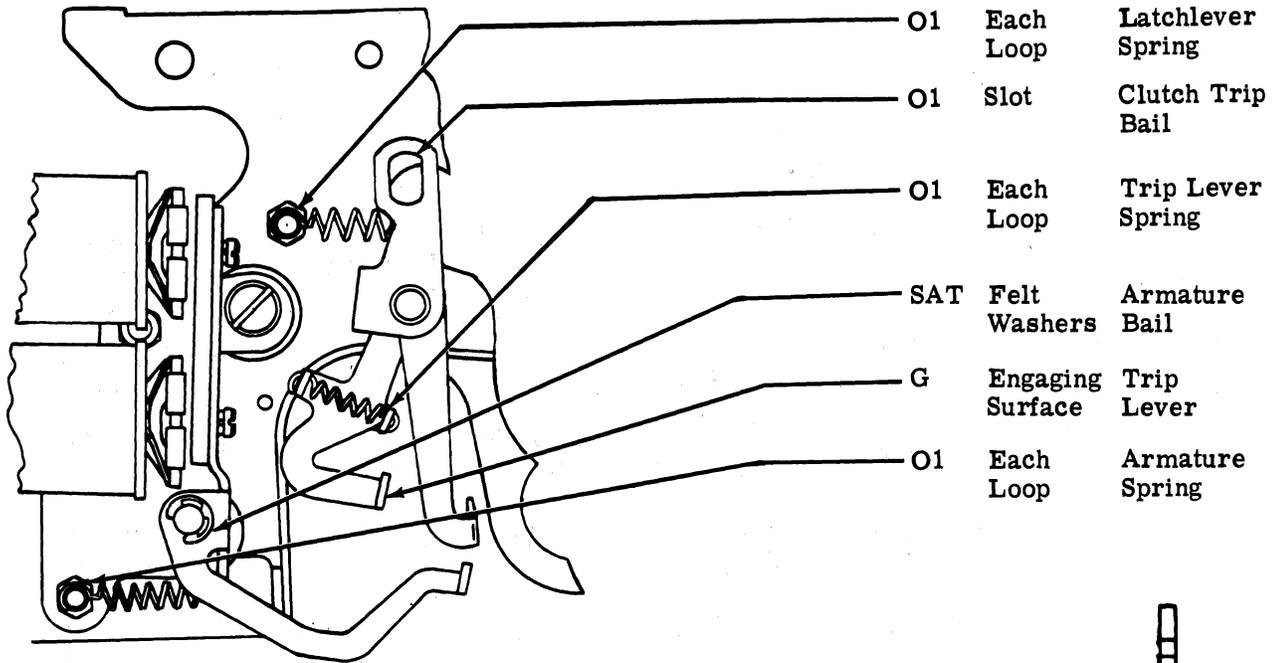
2.03 Signal Contact Assembly



(Top View - Cover Plate Removed)

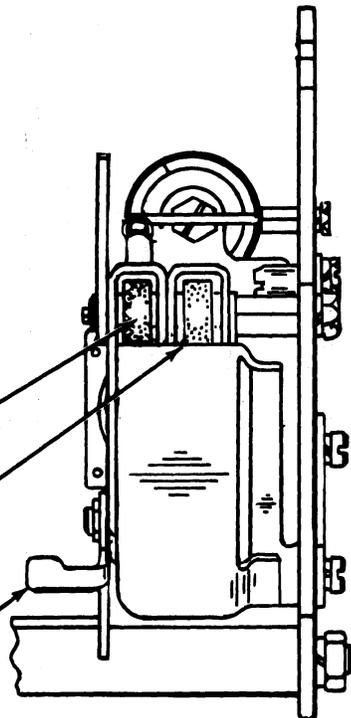
**Note:** The marking "DO NOT OIL" on the signal contact box should be interpreted literally. Portions of the mechanism should be greased as indicated, but no oil should be used.

2.04 Clutch Trip Assembly



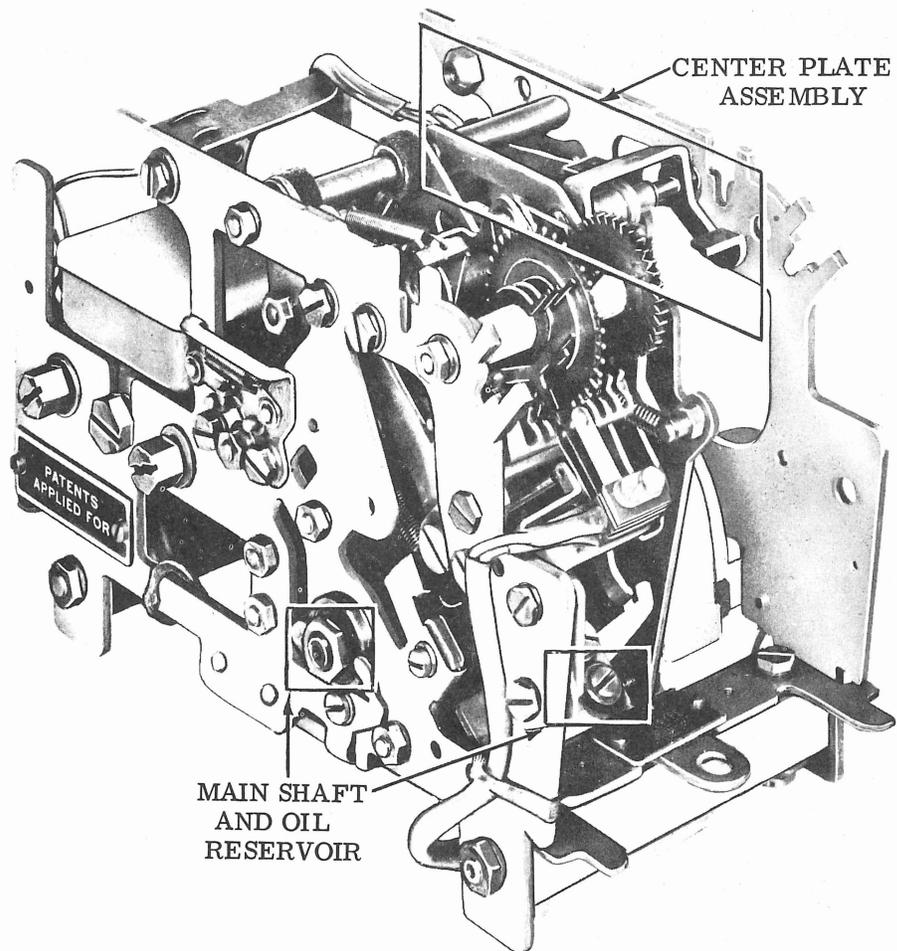
(Front View)

- |                  |                         |     |
|------------------|-------------------------|-----|
| Felt Washer      | Latchlever              | SAT |
| Felt Washer      | Trip Lever              | SAT |
| Engaging Surface | Armature Bail Extension | G   |



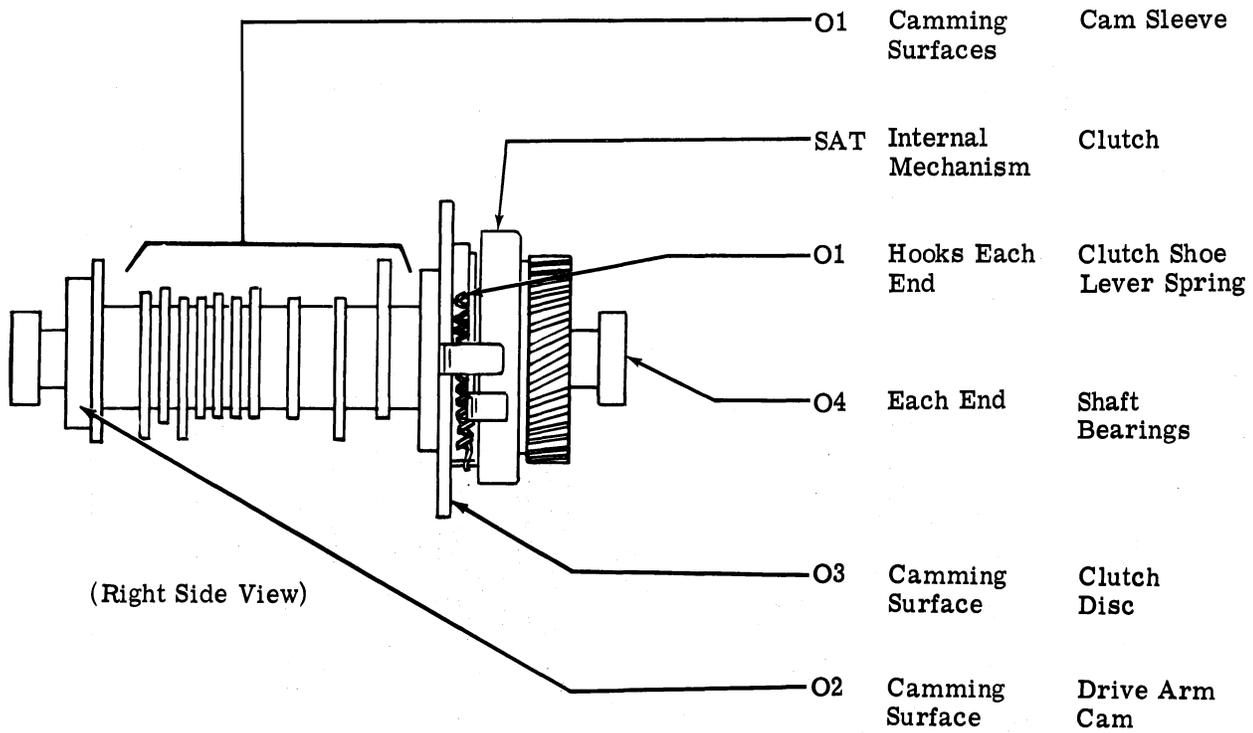
(Right Side View)

2.05 Main Shaft, Oil Reservoir, and Center Plate Assembly

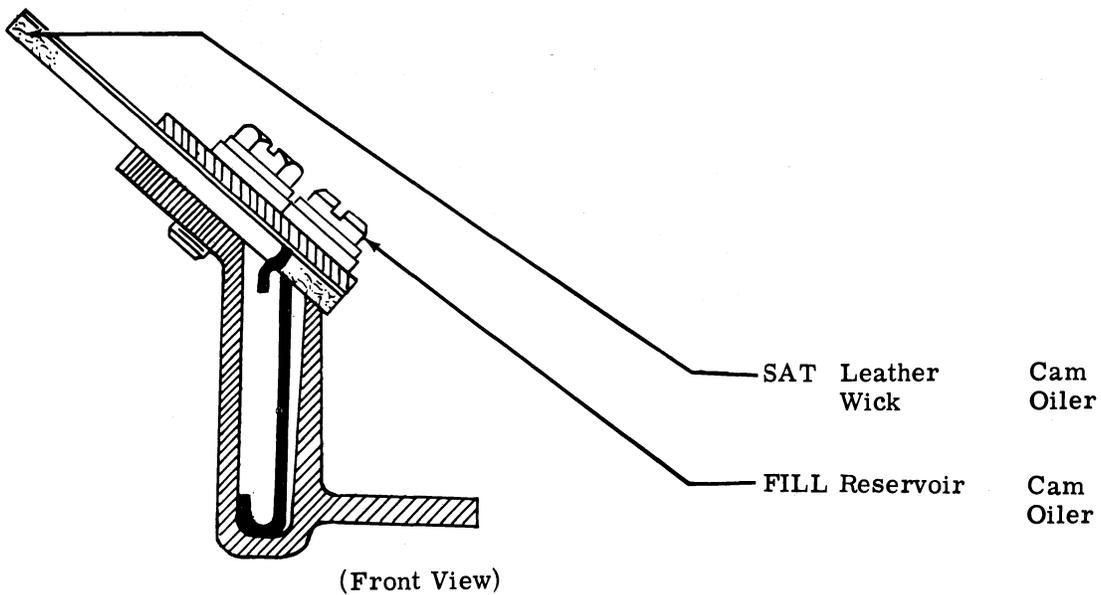


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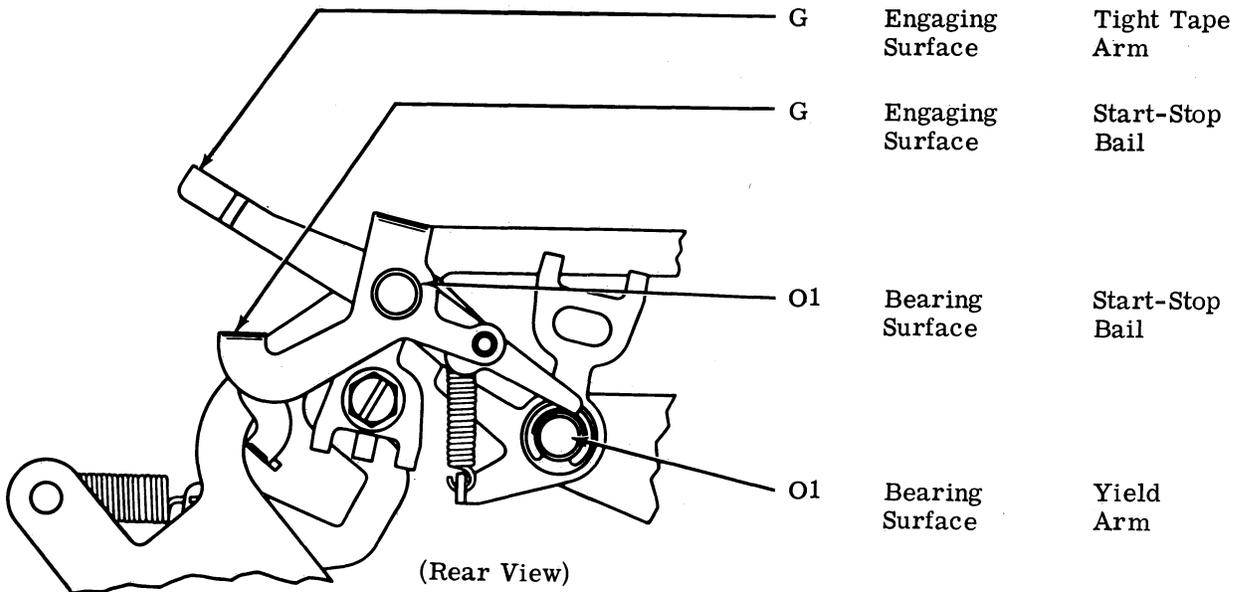
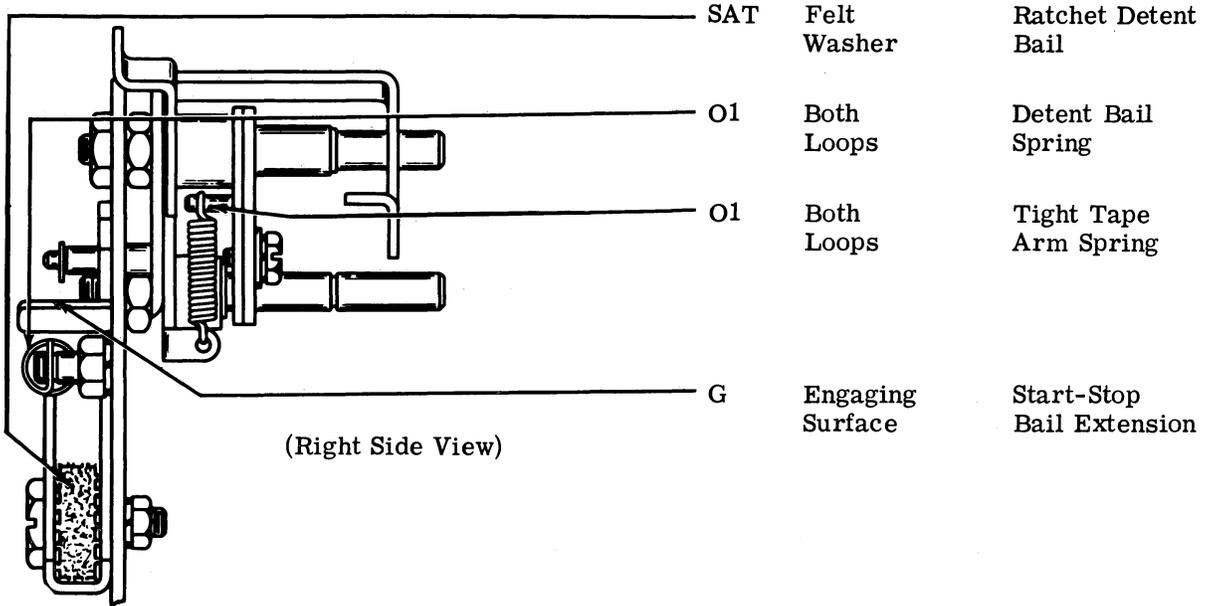
2.06 Main Shaft



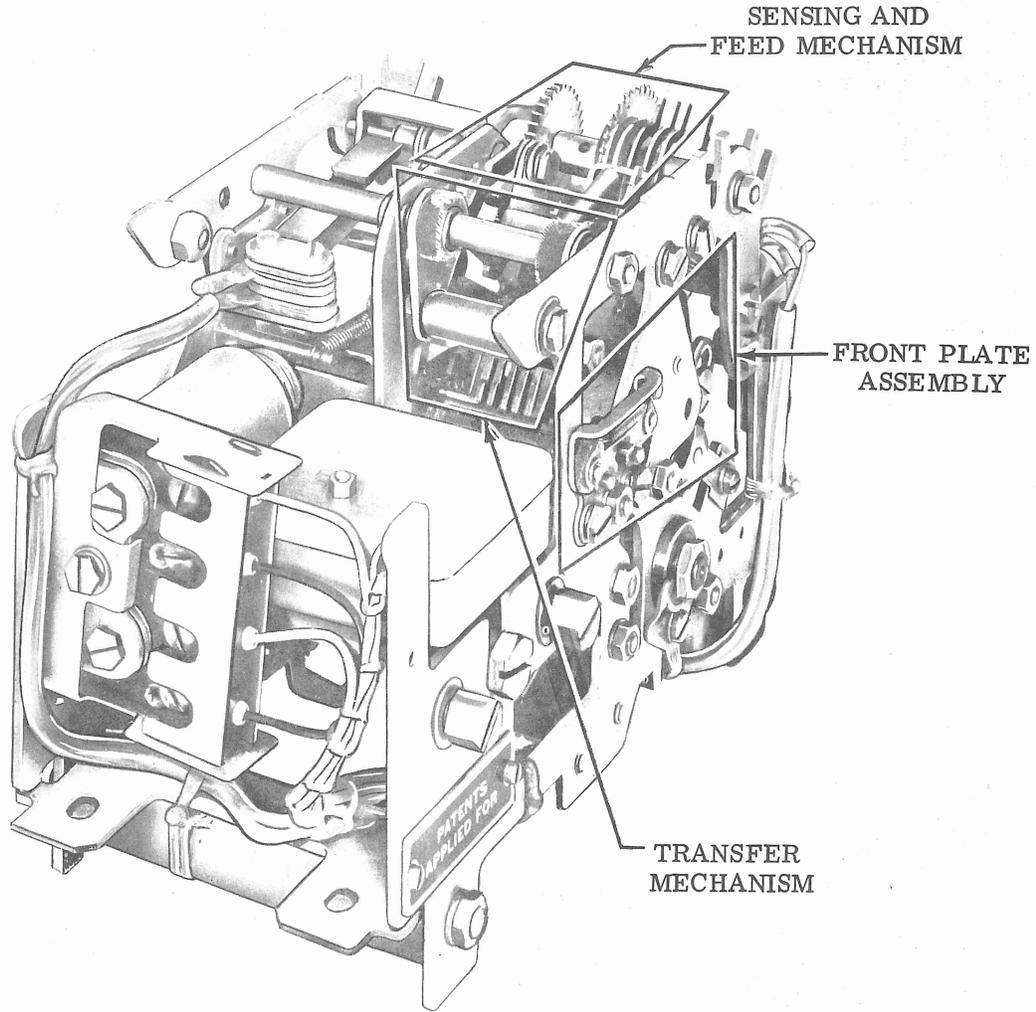
2.07 Oil Reservoir



2.08 Center Plate Assembly

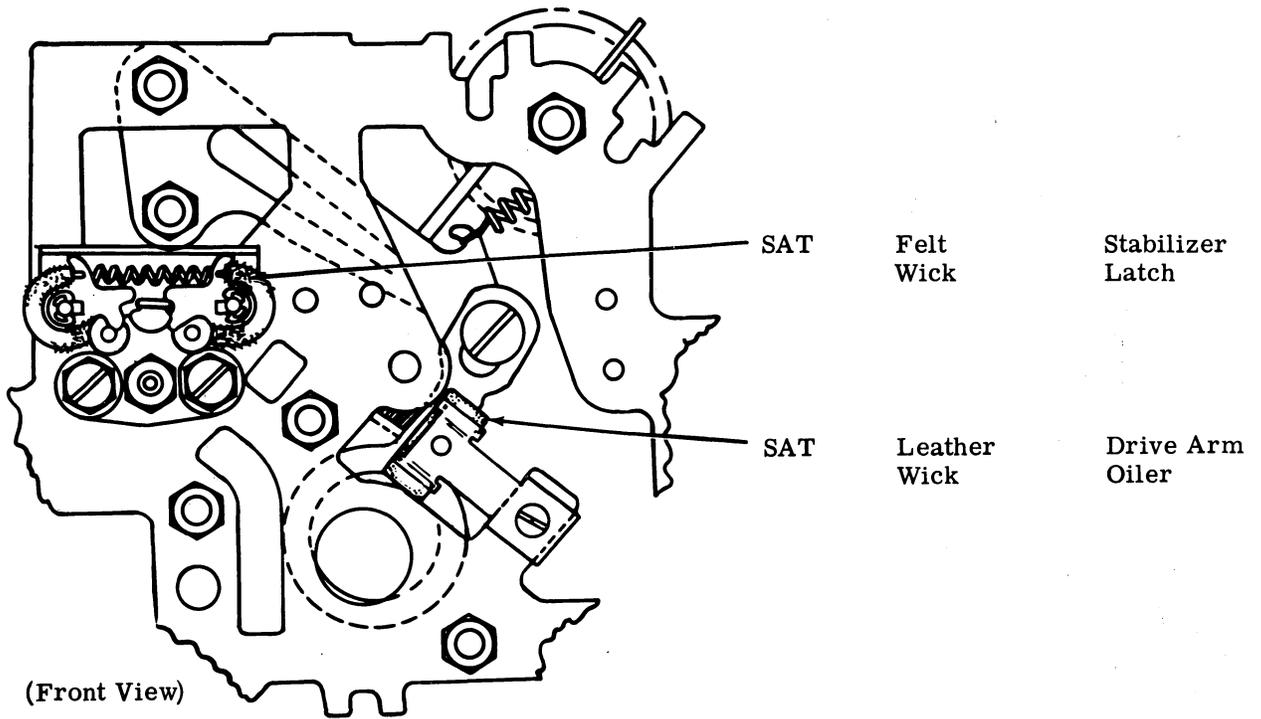


2.09 Front Plate Assembly, Sensing and Feed Mechanism, and Transfer Mechanism



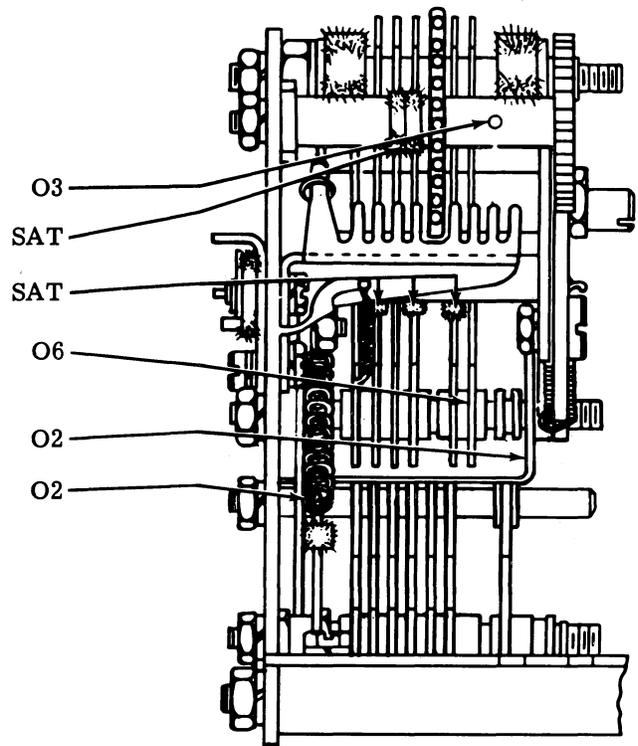
(Rear Oblique View)

2.10 Front Plate Assembly



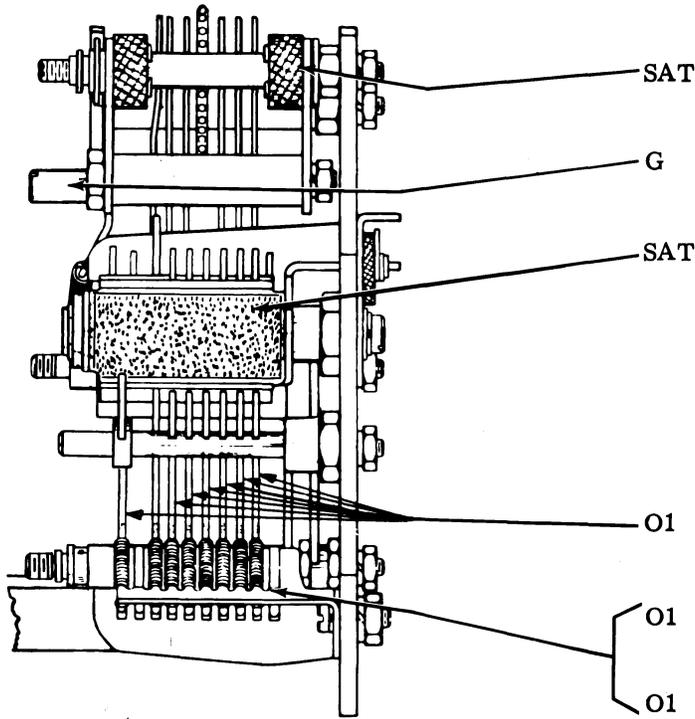
2.11 Sensing and Feed Assembly

- |                 |                        |
|-----------------|------------------------|
| Shaft           | Feed Wheel             |
| Felt Wicks      | Feed Wheel Bearing     |
| Felt Wicks      | Sensing Pins           |
| Sliding Surface | Sensing Pin Guide Post |
| Sliding Surface | Locking Bail           |
| Both Loops      | Locking Bail Spring    |



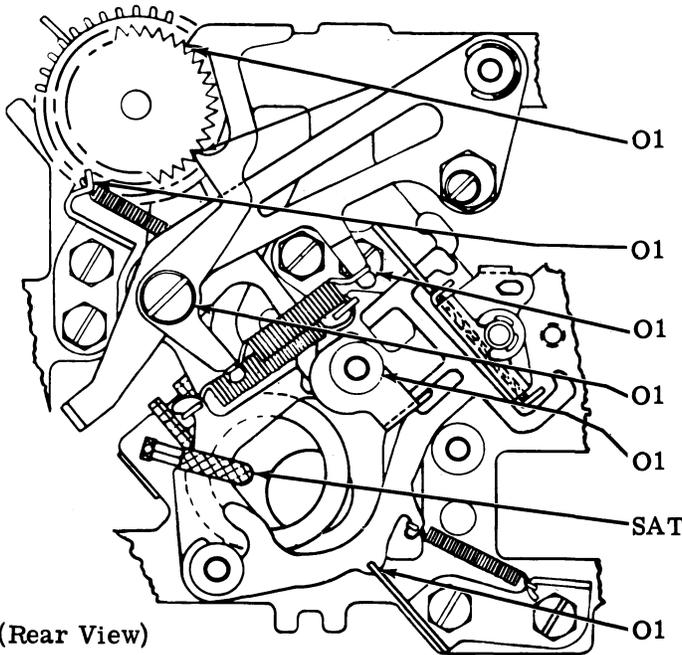
(Bottom View)

2.12 Transfer Mechanism



(Bottom View)

- SAT Each Felt Washer Main Bail Pivots
- G Sliding Surface Bail Drive Post
- SAT Leather Pad Transfer Bail
- O1 Sliding Surfaces Transfer Levers
- O1 Each Loop Transfer Lever Springs
- O1 Each Loop Locking Bail Spring

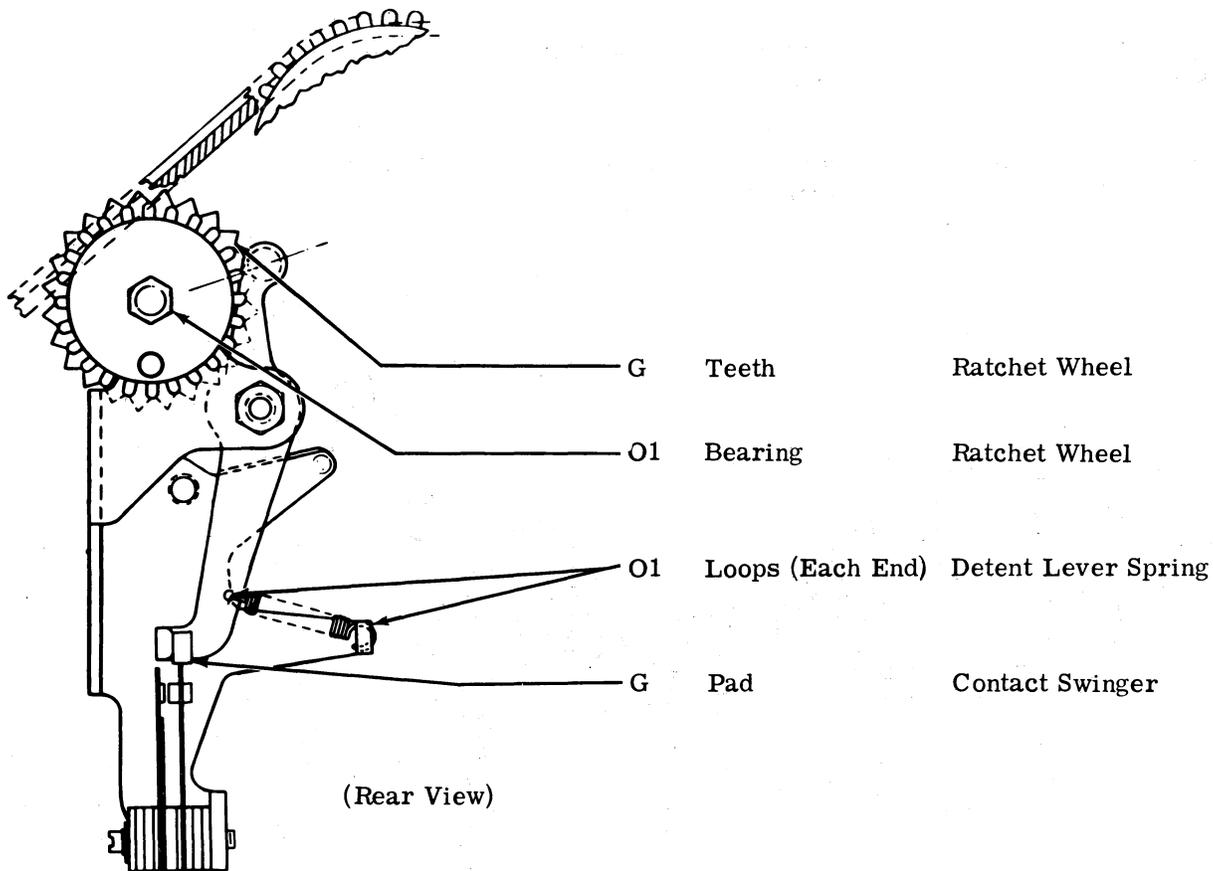


(Rear View)

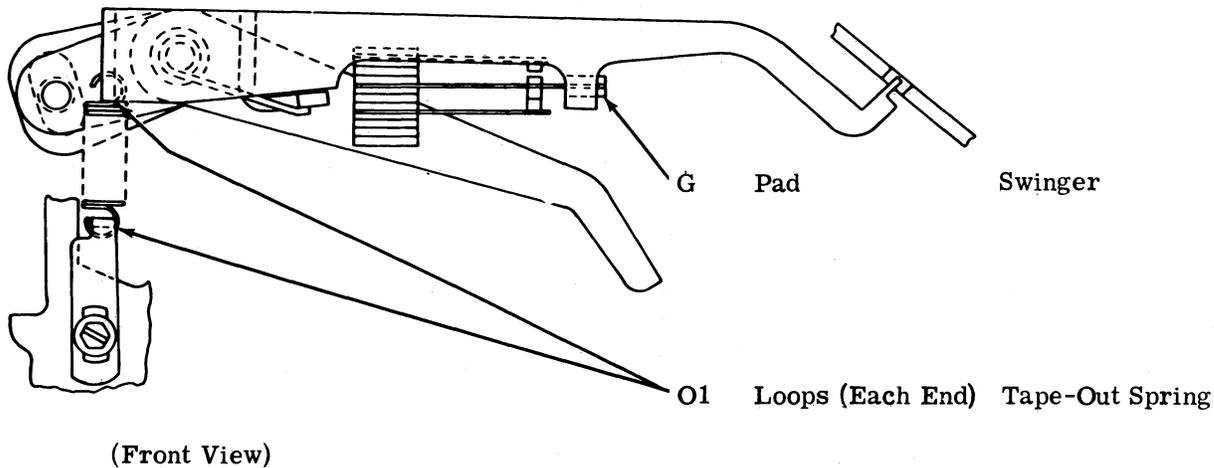
- O1 Teeth Feed Pawl and Ratchet Wheel
- O1 Each Loop Transfer Lever Springs
- O1 Each Loop Feed Pawl Spring
- O1 Sliding Surface Feed Pawl Pivot
- O1 Engaging Surface Locking Bail
- SAT Felt Washer Locking Bail
- O1 Sliding Surface Transfer Levers

3. VARIABLE FEATURES

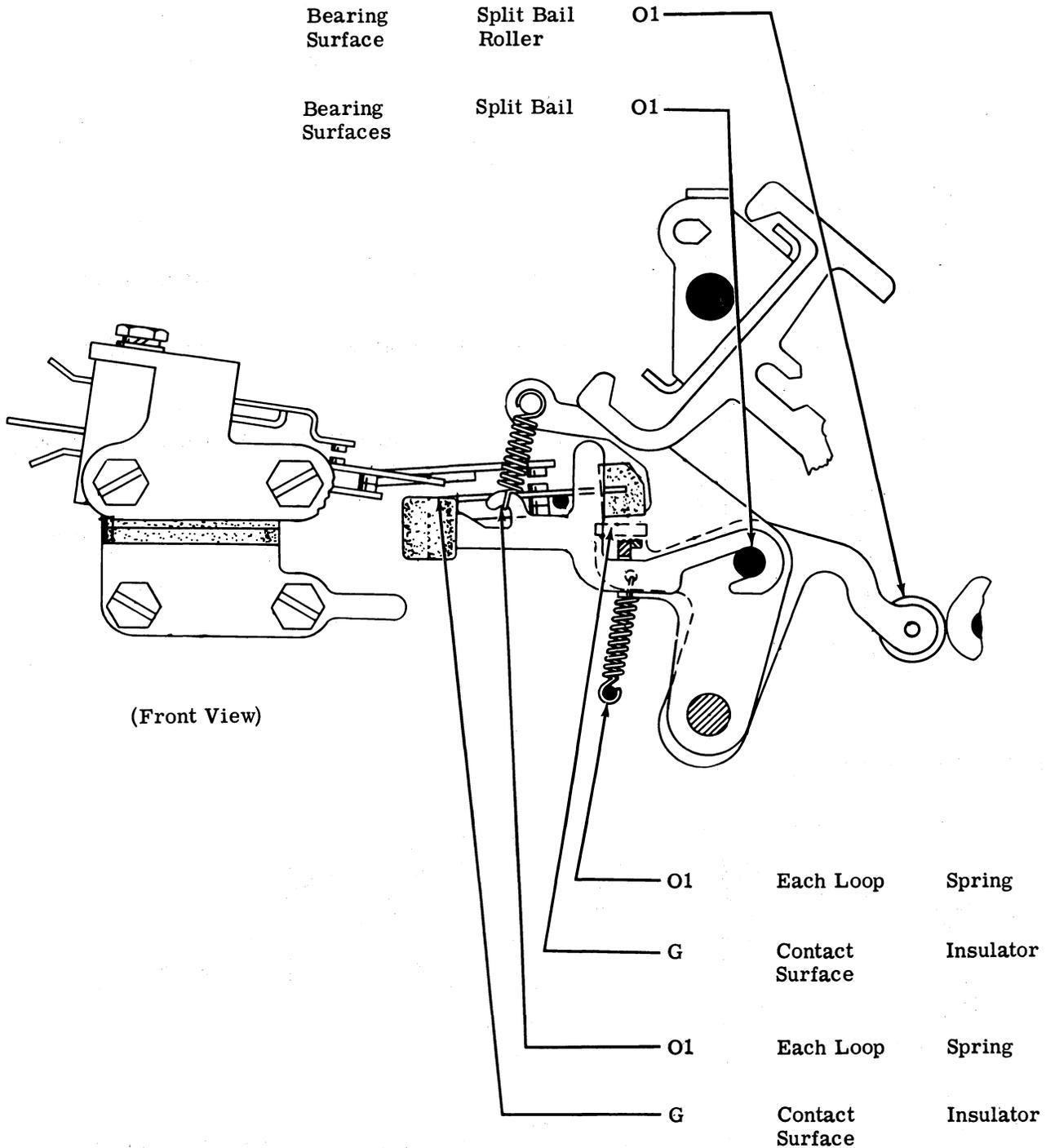
3.01 Tape Feed Assurance Mechanism



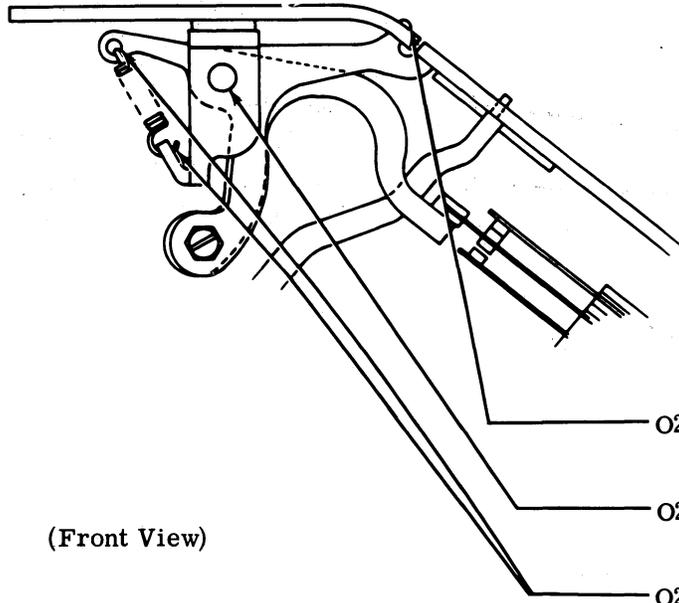
3.02 Tape-Out Sensing Mechanism



3.03 Code Reading Contacts



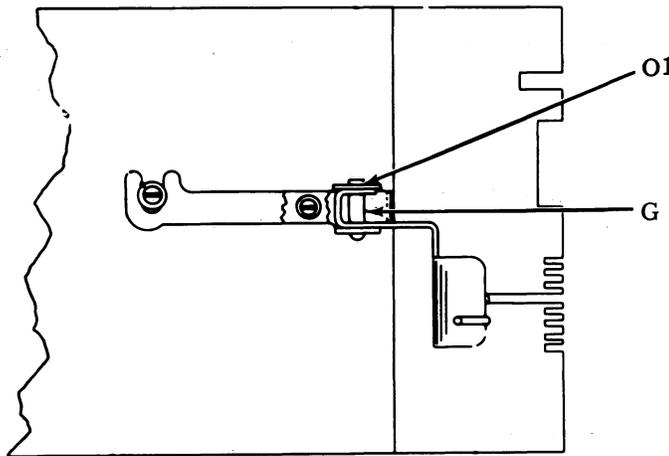
3.04 Tape Lid Sensing Lever



(Front View)

- |    |                     |                         |
|----|---------------------|-------------------------|
| O1 | Protrusion          | Sensing Lever           |
| O2 | Pivot               | Sensing Lever           |
| O2 | Loops<br>(Each End) | Sensing Lever<br>Spring |

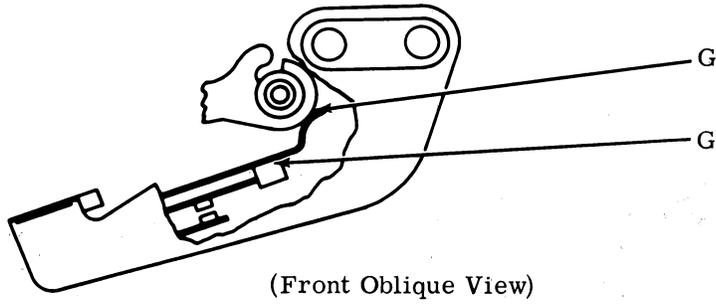
3.05 Tape Deflector



(Top View)

- |    |                                  |                     |
|----|----------------------------------|---------------------|
| O1 | Bearing<br>Surface<br>(Each End) | Tape<br>Deflector   |
| G  | Thin<br>Film<br>Contact Surface  | Deflector<br>Spring |

3.06 Start-Stop Pulse Contact



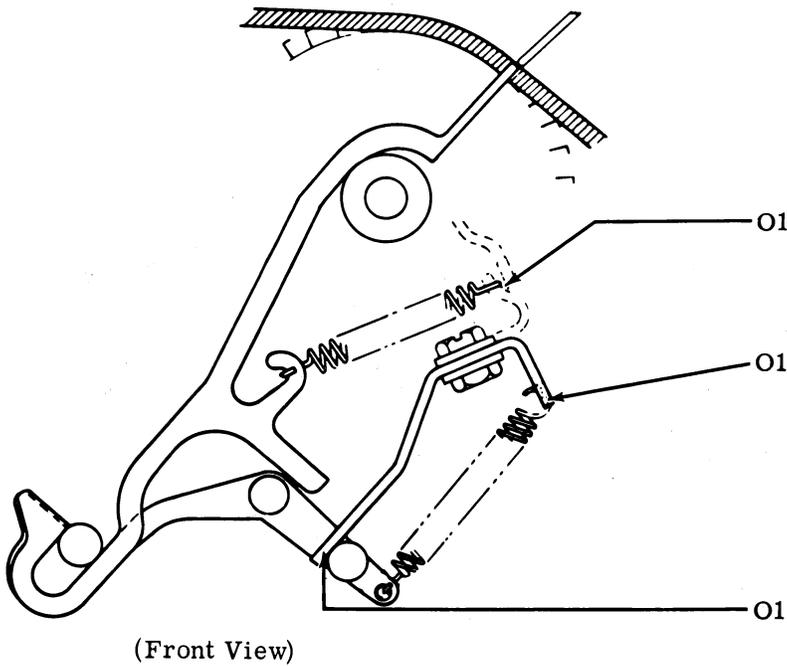
Engaging Surface

Contact Lever

Engaging Surface

Contact Insulator

3.07 Rub-Out Deleter



Each Loop

Spring

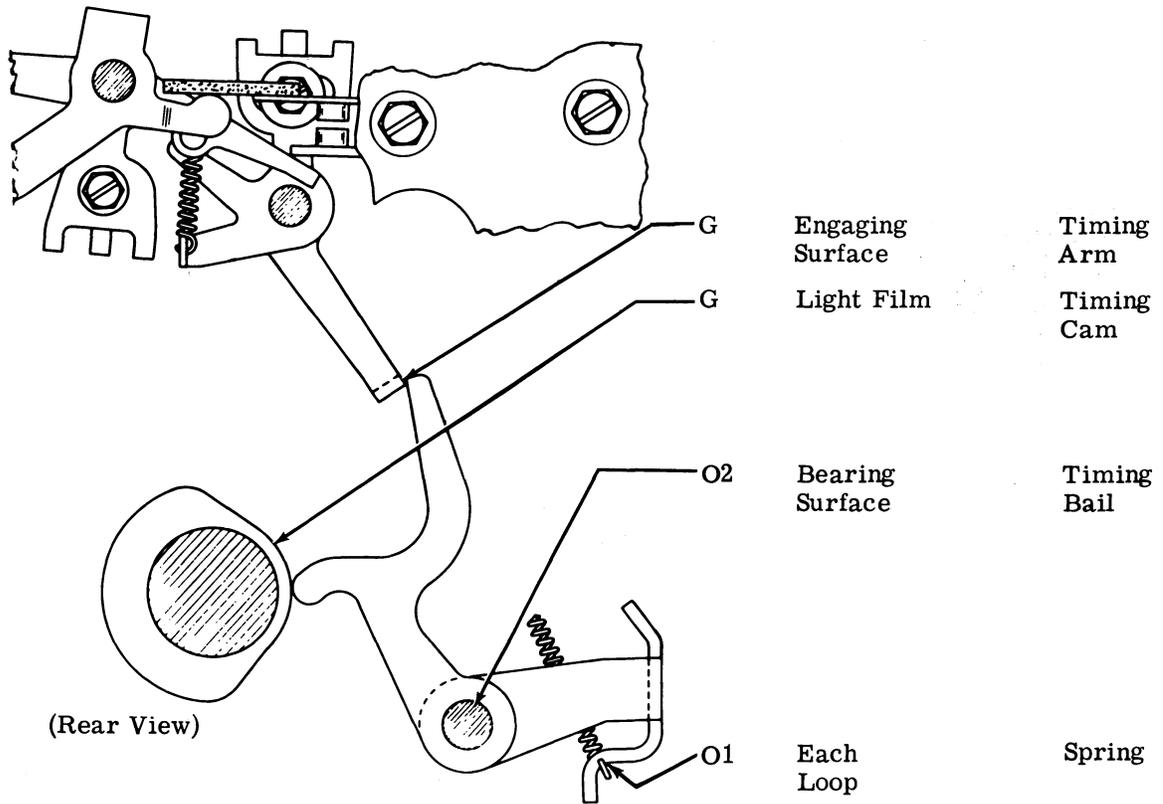
Each Loop

Spring

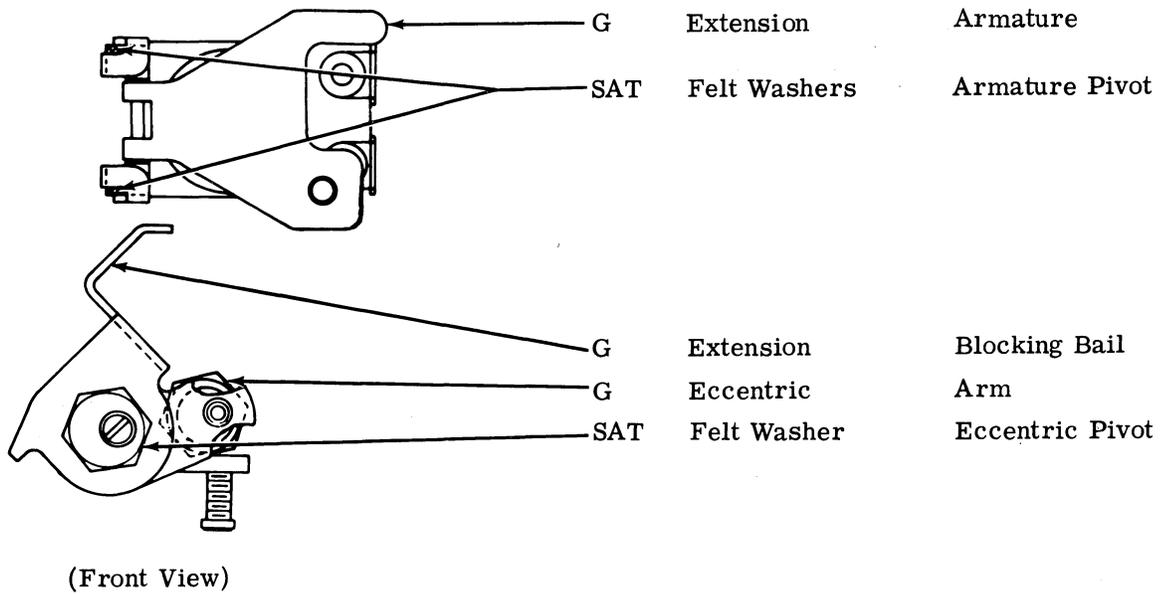
Engaging Surface

Deflector Bail Guide

3.08 Transmitter Stop Mechanism



3.09 Tape-Withhold Mechanism



3.10 All Gears

