

HIGH SPEED TAPE READER UNITS (CX)

LUBRICATION

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1. GENERAL

1.01 This section provides lubrication information for the high speed tape reader units (Figure 1). It is reissued to incorporate engineering changes and comments received on Issue 4. Since only a limited distribution was made on Issue 4, marginal arrows have been omitted.

1.02 General areas of the reader are shown by photographs. Specific points to receive lubrication are indicated by line drawings and descriptive text. The line drawings and descriptive text follow each photograph and are keyed to the photographs by paragraph numbers.

1.03 References made to left or right, front or rear, and top or bottom apply to the reader as viewed with the flywheel facing the viewer (Figure 1).

1.04 Lubricate the reader before placing it into service and just prior to putting it into storage.

1.05 After approximately 200 hours or four weeks of operation (whichever comes first), relubricate the reader to make certain no points have been missed. Thereafter, lubricate the reader according to the following schedule:

| <u>Operating Speed (wpm)</u> | <u>Lubrication Interval*</u> |
|----------------------------------|----------------------------------|
| 1000 | 250 hours or 6 weeks |
| 750 | 500 hours or 12 weeks |
| 500 | 1000 hours or 24 weeks |
| 150 | 1500 hours or 6 months |
| 100 | 2000 hours or 9 months |

*Whichever occurs first.

1.06 The following symbols are used in the lubrication instructions to indicate the type of lubricant.

- O Apply KS7470 oil
- G Apply KS7471 grease as specified

Note: In general, the symbols indicate the type of lubricant. Quantity of lubricant is normally given in the lubrication instructions. An exception to this method is where the exact number of drops of oil is specified. For example, O1, O2, O3, etc refer to 1, 2, 3 etc drops of oil.

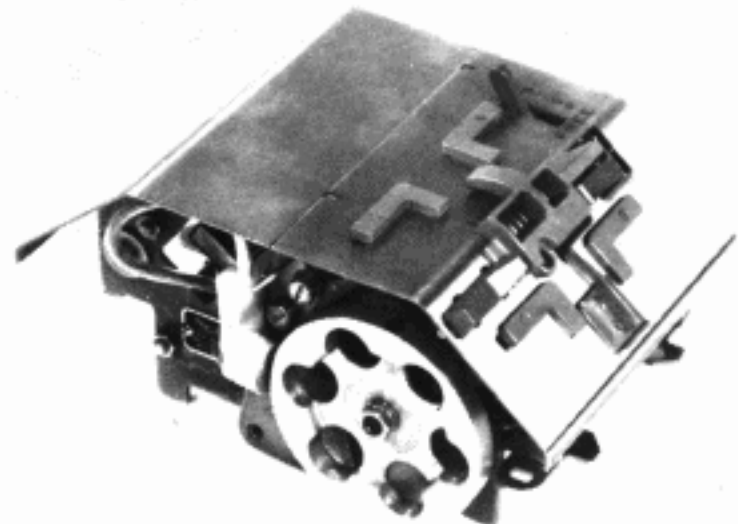


Figure 1 - High Speed Tape Reader Unit

SECTION 592-801-701TC

1.07 Ordering information for lubricants and a complete list of tools and materials available to maintain the reader is given in Section 570-005-800TC.

1.08 Oil should be applied by means of an oiler. Overlubrication which would allow oil to drip on other parts should be avoided. Wipe off excess amounts of lubricant. Capillary action and vaporization tend to keep a film of oil on the parts. This prevents rust and provides sufficient lubrication to many points.

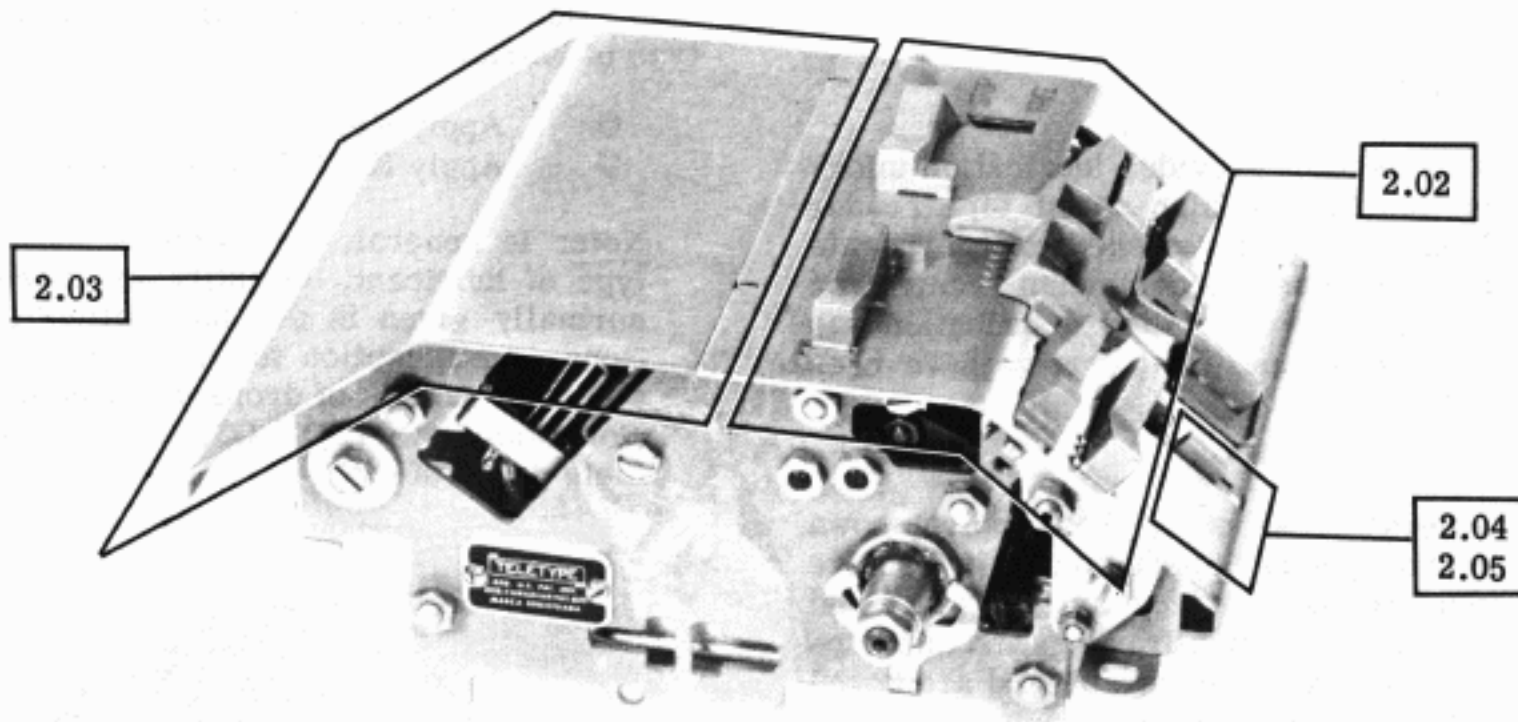
CAUTION: SPECIAL CARE SHOULD BE TAKEN TO PREVENT ANY LUBRICANT FROM GETTING BETWEEN ELECTRICAL CONTACTS.

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

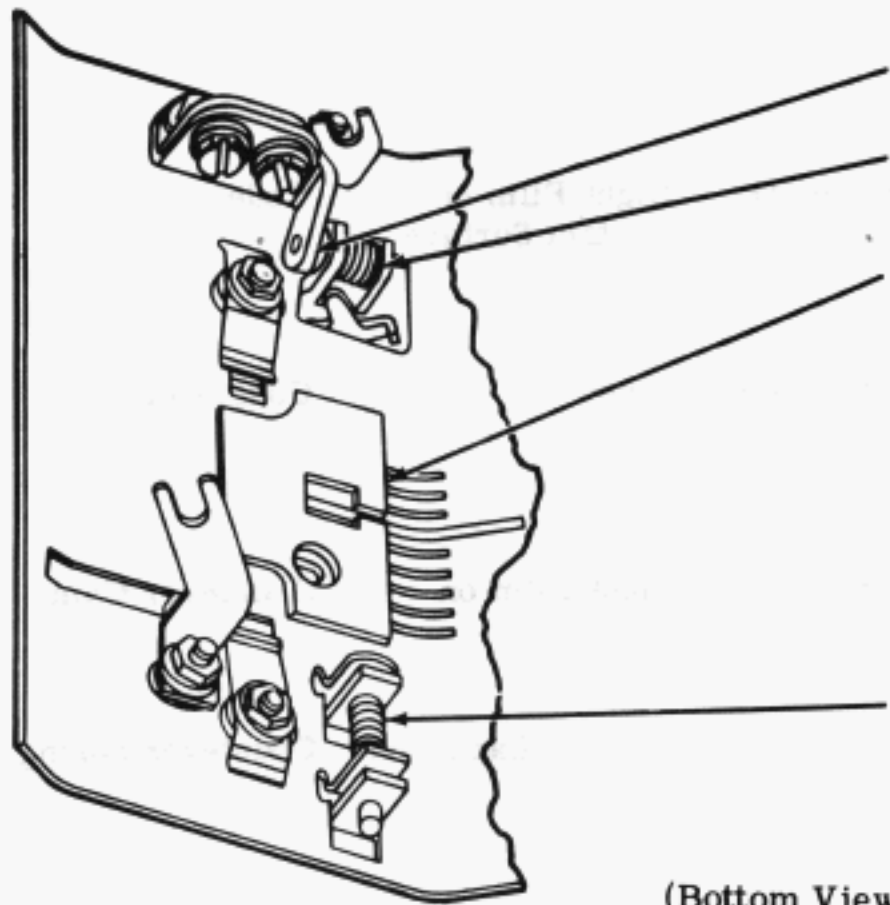
CAUTION: REMOVE POWER BEFORE LUBRICATING READER.

2. BASIC UNIT

2.01 Tape Reader (Front View)



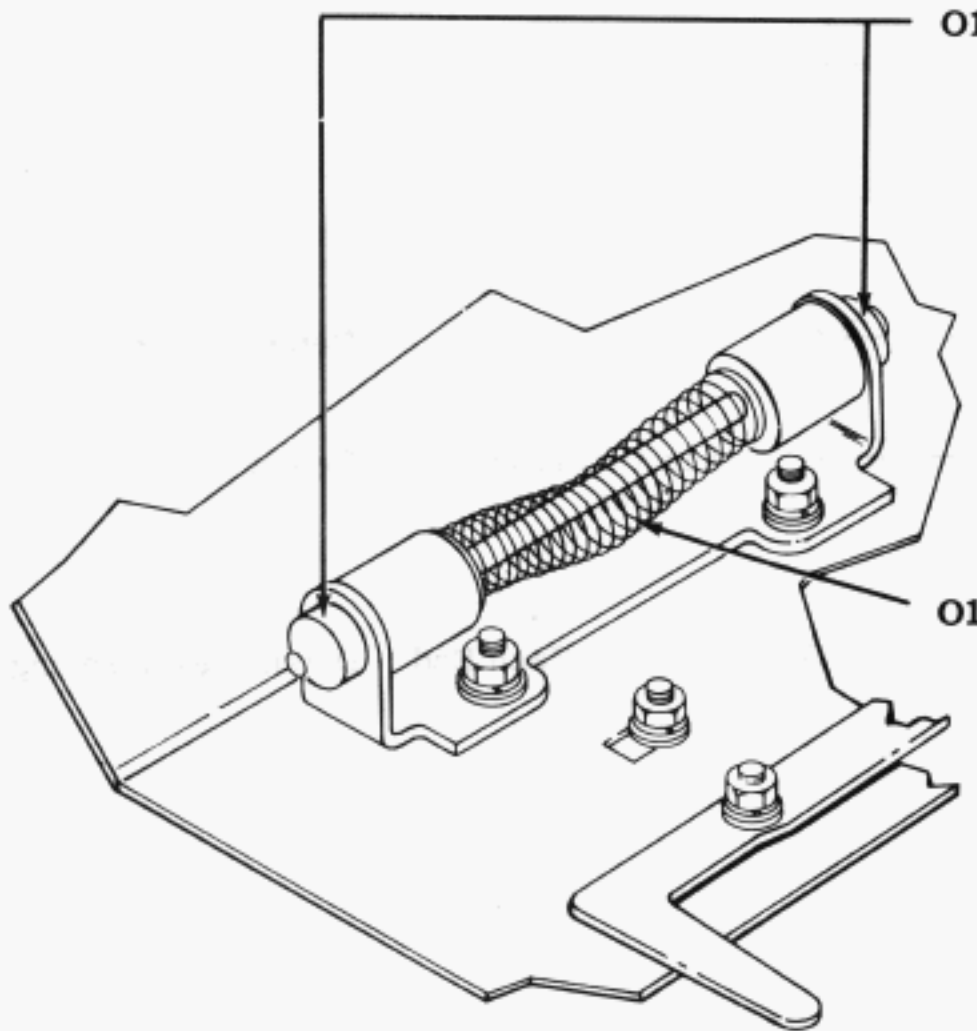
2.02 Tape Lid Mechanism



- O1 Pivot Point
- O1 Hooks - Each End Tape Lid Spring
- G Light Film on Wear Plate Edge
- O1 Spring Slide Latch

(Bottom View)

2.03 Cover Plate Plunger Mechanism

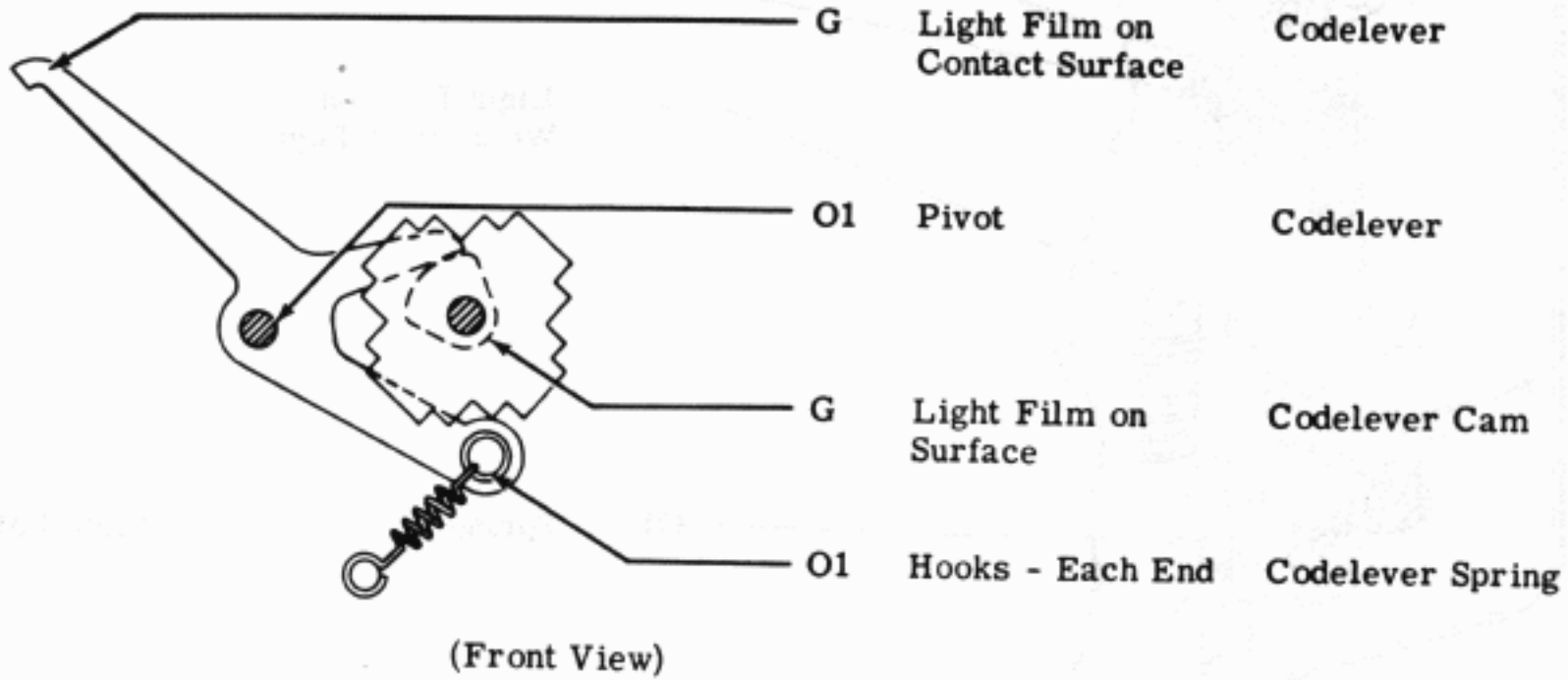


- O1 Sliding Surface Plunger
- O1 Hooks - Each End Plunger Spring

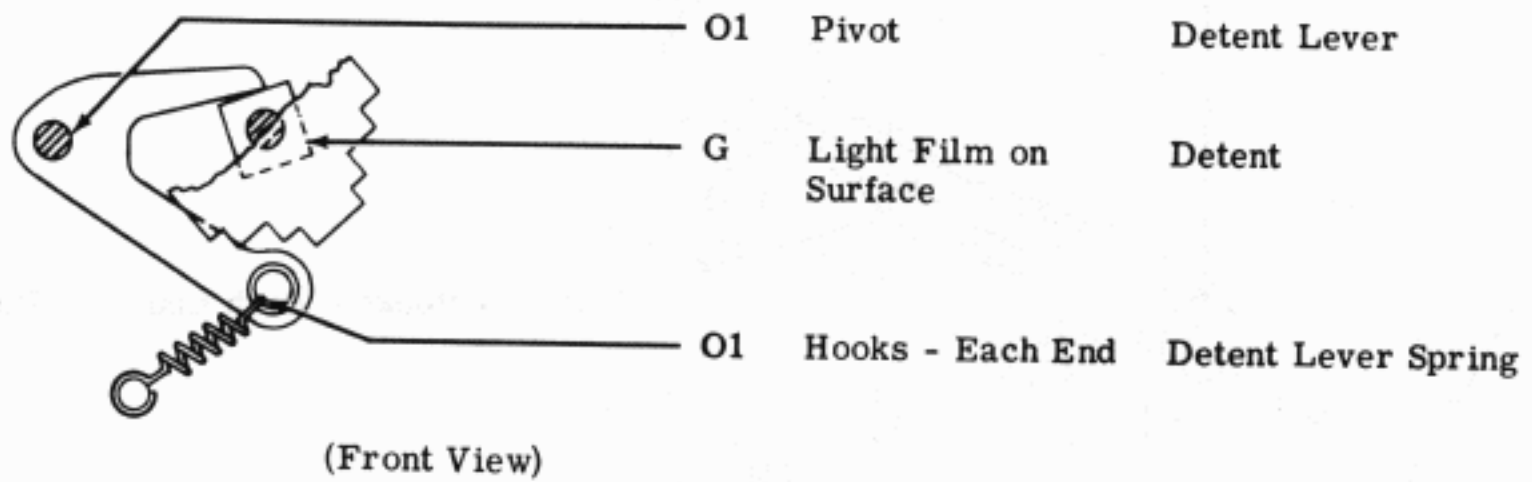
(Bottom View)

SECTION 592-801-701TC

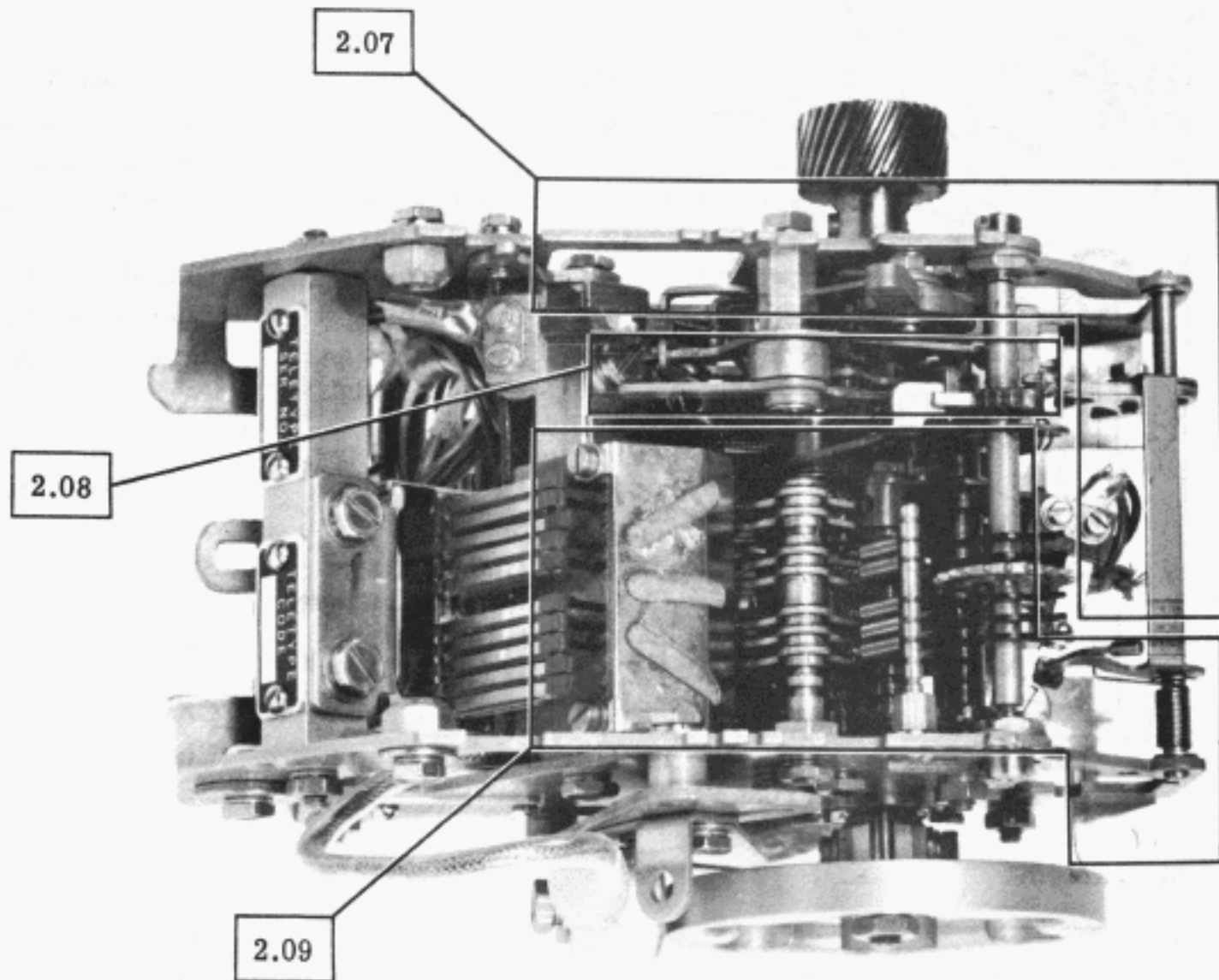
2.04 Universal Tape Reading Mechanism



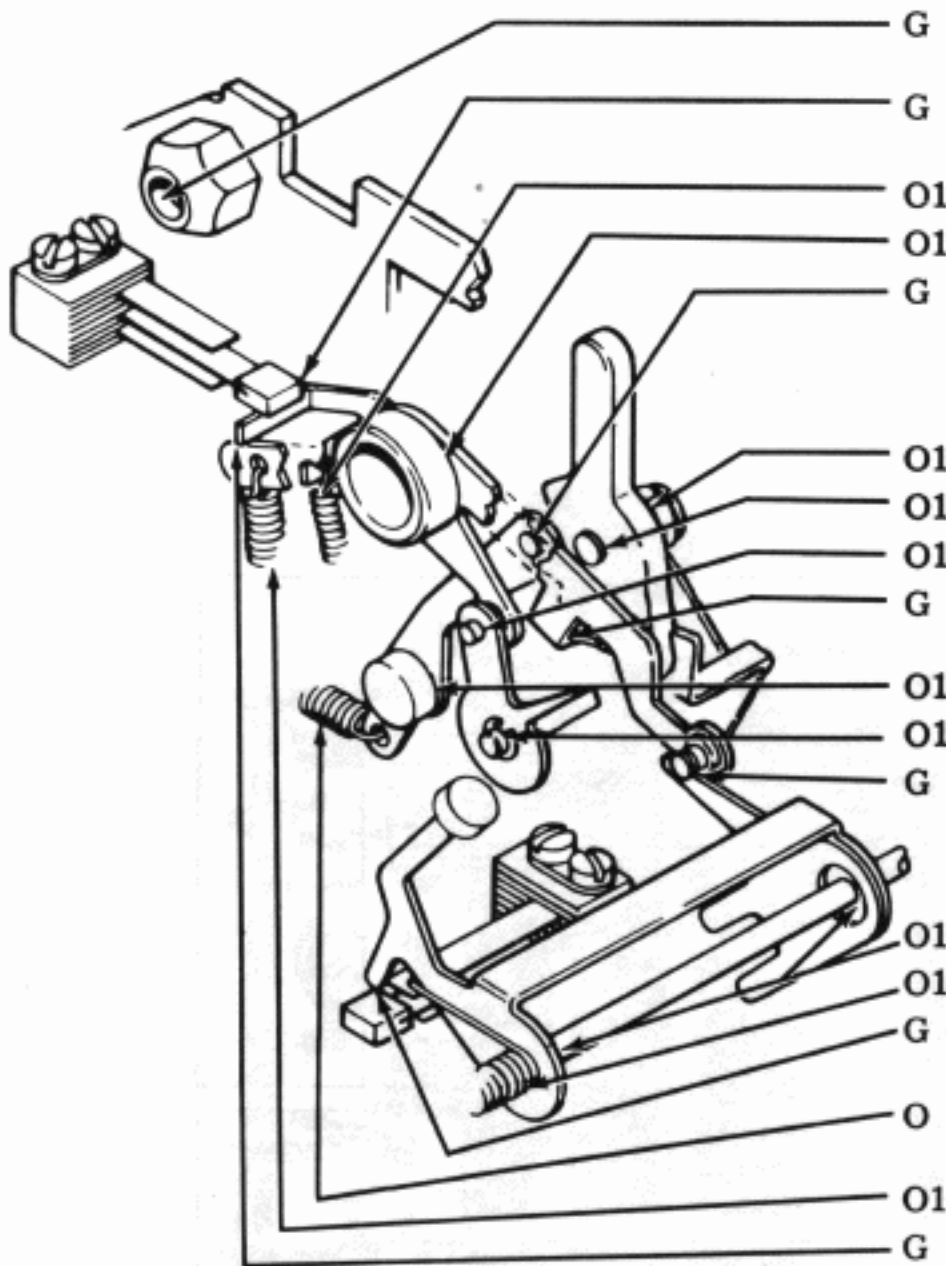
2.05 Universal Tape Reading Mechanism (continued)



2.06 Tape Reader (Top View)



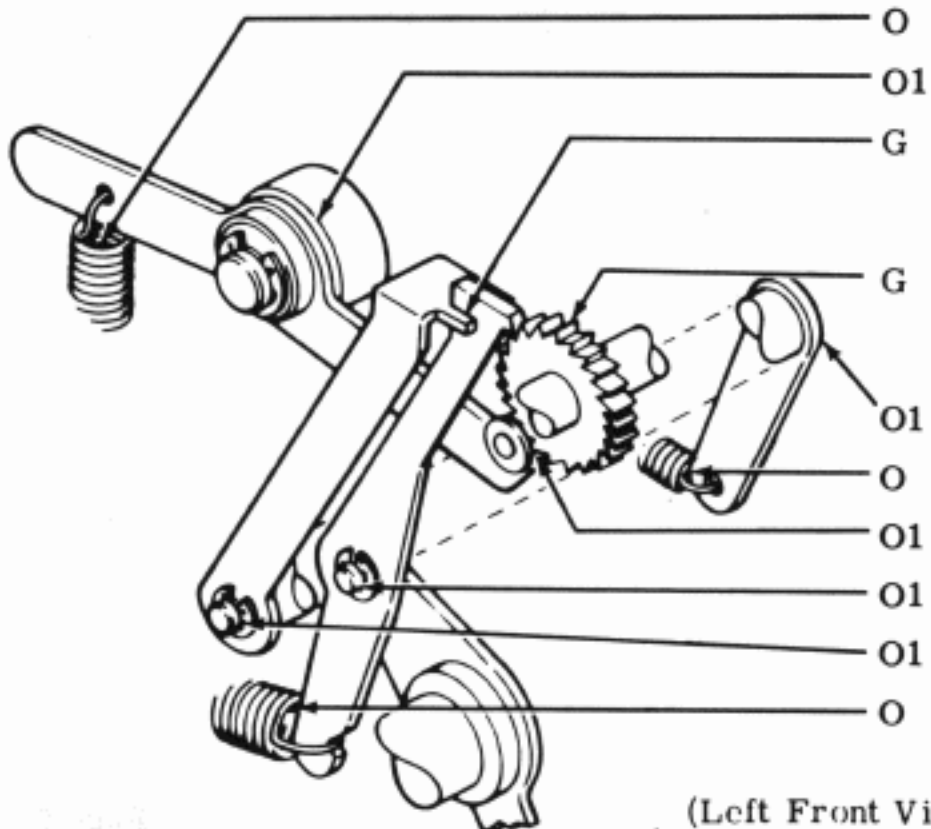
2.07 Operation Control Mechanism



(Left Front View)

- | | | |
|----|-------------------------------|----------------------|
| G | Light Film on Plungers | Cover Plate |
| G | Light Film on Contact Surface | Swinger Tip |
| O1 | Hooks - Each End | Tape-Out Arm Spring |
| O1 | Pivot Point | Control Lever |
| G | Light Film on Contact Surface | Start-Stop Lever |
| O1 | Pivot Point | Tape-Out Arm |
| O1 | Pivot Point | Start-Stop Lever |
| O1 | Pivot Point | Intermediate Lever |
| G | Light Film on Contact Surface | Start-Stop Lever |
| O1 | Pivot Point | Detent Lever |
| O1 | Pivot Point | Intermediate Lever |
| G | Light Film on Contact Point | Tape-Out Stop Arm |
| O1 | Pivot Points | Tape-Out Extension |
| O1 | Spring | Tape-Out Pin |
| G | Light Film on Contact Surface | Swinger Tip |
| O | Saturate Felt Wick | Detent Spring |
| O1 | Hooks - Each End | Control Lever Spring |
| G | Light Film on Contact Surface | Control Lever |

2.08 Feed Mechanism

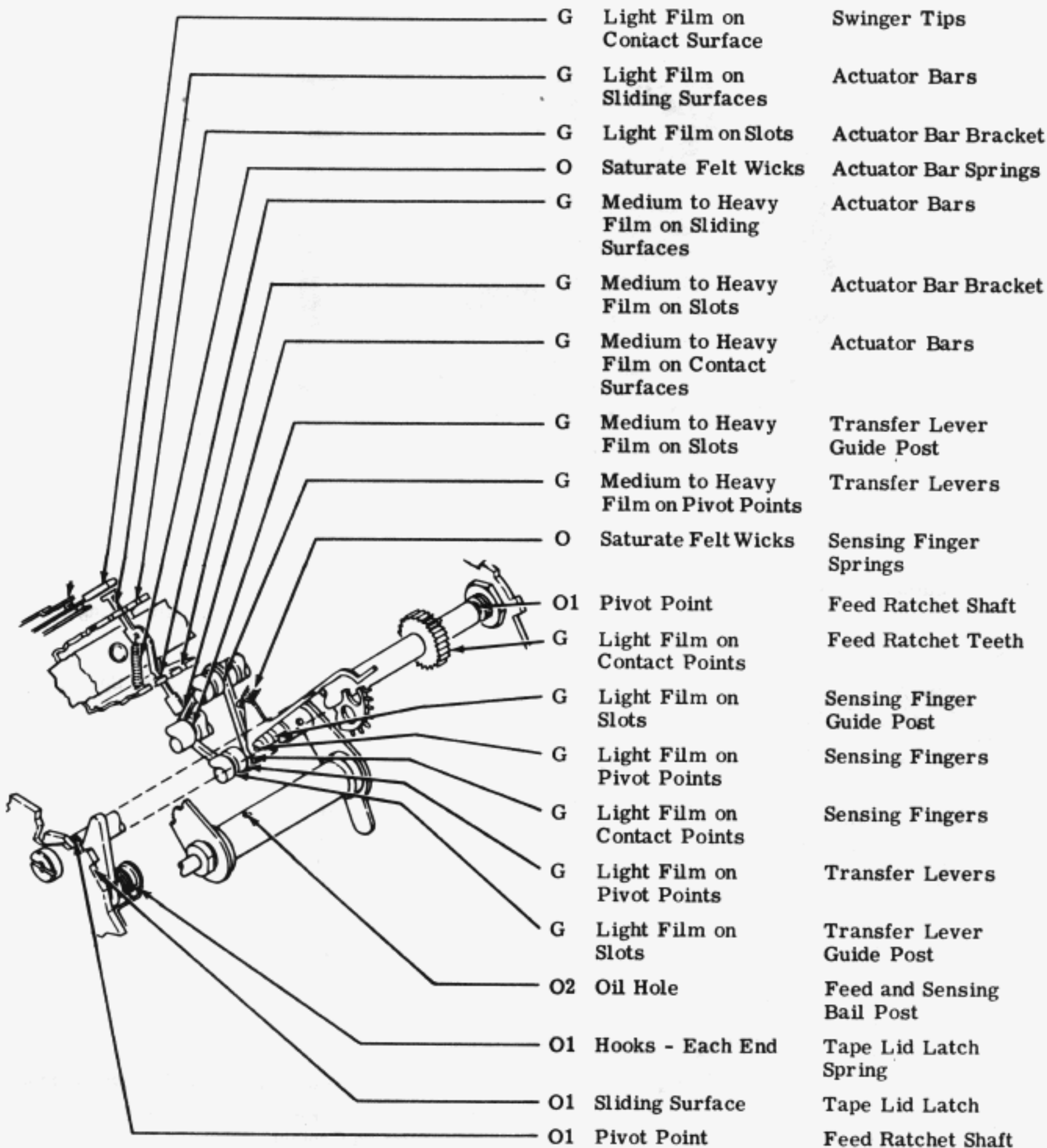


(Left Front View)

- | | | |
|----|--|---------------------------|
| O | Saturate Felt Wick | Detent Lever Spring |
| O1 | Pivot Point | Detent Lever |
| G | Medium to Heavy Film on Contact Point | Inertia Stop Lever |
| G | Medium to Heavy Film on Contact Points | Feed Ratchet Teeth |
| O1 | Pivot Point | Inertia Stop Lever |
| O | Saturate Felt Wick | Inertia Stop Lever Spring |
| O1 | Roller | Detent Lever |
| O1 | Pivot Point | Feed Pawl |
| O1 | Pivot Point | Inertia Stop Lever |
| O | Saturate Felt Wick | Feed Pawl Spring |

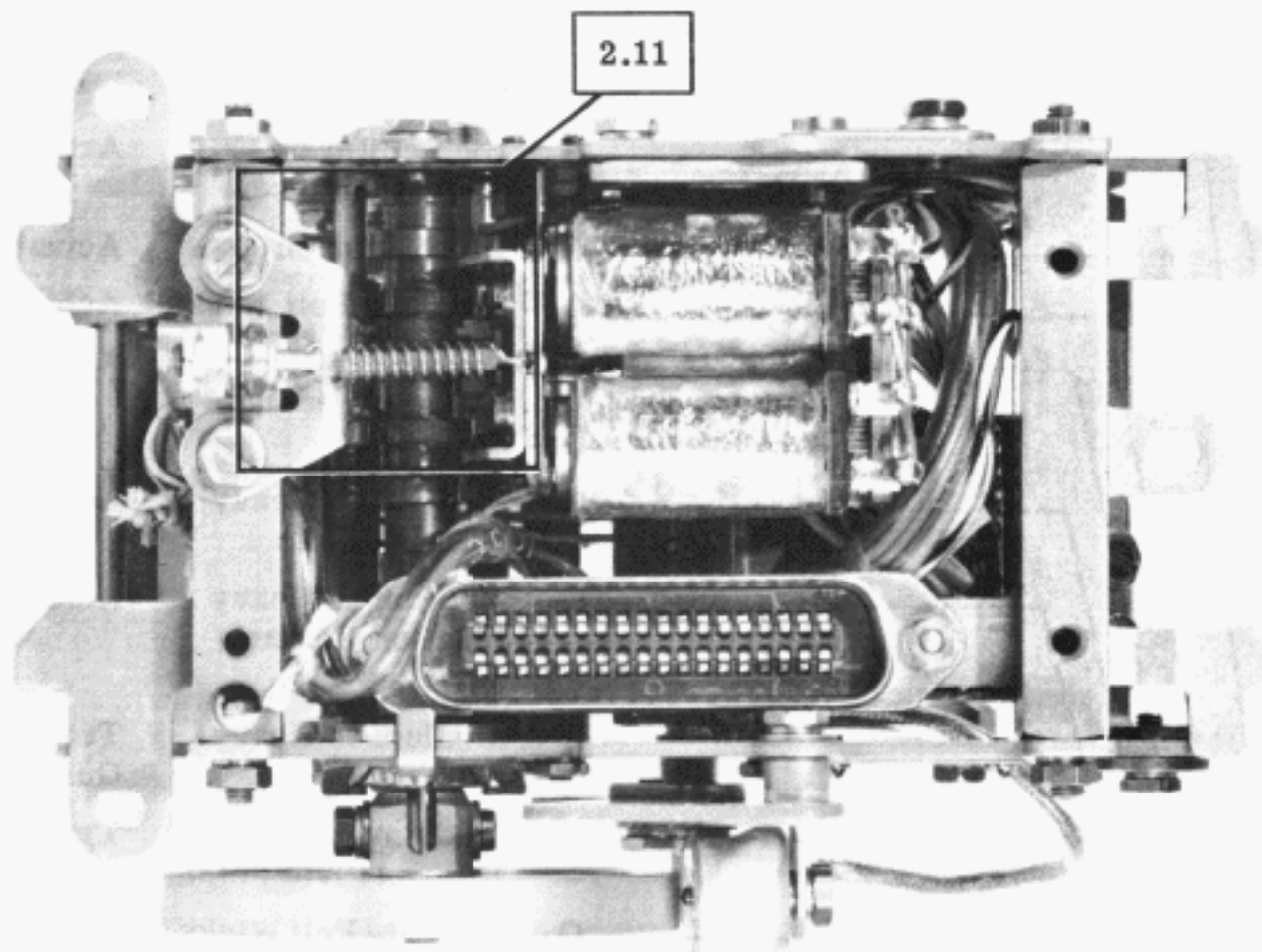
2.09 Sensing Mechanism

Note: Exercise care to prevent lubricant from finding its way to contact points.

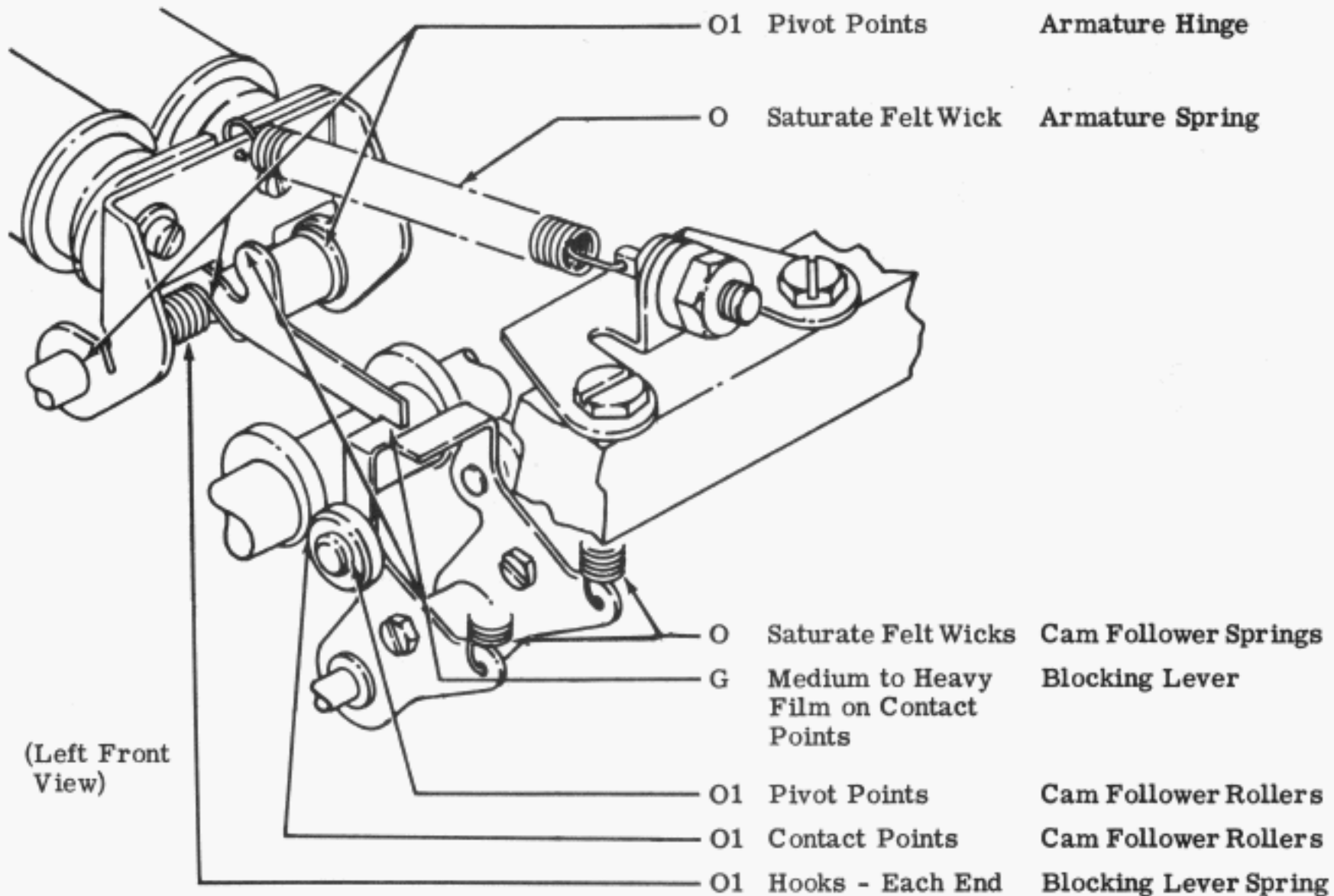


(Left Front View)

2.10 Tape Reader (Bottom View)



2.11 Latching Mechanism



2.12 Motor and Main Shaft Assembly

Note: Typical application is illustrated. Lubricate standard coded motor units as instructed in Section 570-220-701TC. Refer to the appropriate sections for lubrication instructions on other motor units.

