

33 TAPE PUNCH

LUBRICATION

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1. GENERAL

1.01 This section provides lubrication information for the 33 tape punch. It is reissued to incorporate changes including lubrication intervals. Marginal arrows are used to indicate changes and additions.

1.02 The general lubrication areas are illustrated by photographs. The specific points to receive lubricant are indicated on line

drawings with appropriate textual instructions. Line drawings and textual instructions follow each photograph and are keyed to the photograph by paragraph numbers.

1.03 Thoroughly lubricate all sliding surfaces with a light application of oil (KS7470) to prevent wear. This includes all cams and cam followers, bearing surfaces, pivot points, spring ends, and movable parts of die blocks. Saturate all felt washers and oilers.

Note: Avoid overlubrication that permits the lubricant to drip or be thrown onto adjacent parts. Avoid oil inside of chad chute and chad extension.

1.04 Lubricate tape punch before placing it in storage, or before placing it in service if it's been in storage for six months or longer. Thereafter, relubricate punch at the following intervals:

LUBRICATION INTERVAL
(Based on 5-Day Week — See Note 1)

Speed (wpm)	Machine Utilization		
	0-8 hrs	8-16 hrs	16-24 hrs
60 (See 100 Note 2)	39 wks 26 wks	26 wks 13 wks	13 wks 6 wks
Initial Lubrication (All Speeds) New Equipment	3 wks	2 wks	1 wk

Note 1: Reduce interval 15 percent when unit is used 6 days per week and reduce interval 30 percent when used 7 days per week.

Note 2: Units with serial numbers above 144,000, use interval in chart above. Units with serial numbers below 144,000, reduce interval by 1/3 or 33 percent.

Note 3: Units operating at speeds in between values shown in chart use the lower of the two values.

Note 4: The lubrication intervals shown in the chart are for the set as well as the components.

1.05 The textual instructions that accompany the line drawings consist of abbreviated directions specific lubrication points, and parts affected. The meanings of the abbreviated directions (symbols) are given below.

Symbol	Meaning
D	Keep dry - no lubricant permitted.
O	Oil (KS7470).

1.06 References to left, right, front, or rear, etc consider the tape punch to be viewed from a position where the tape guide assembly faces up and the backspace lever is to the viewer's left. Orientation references in the drive link mechanism area consider the drive link to be up and located to the viewer's left.

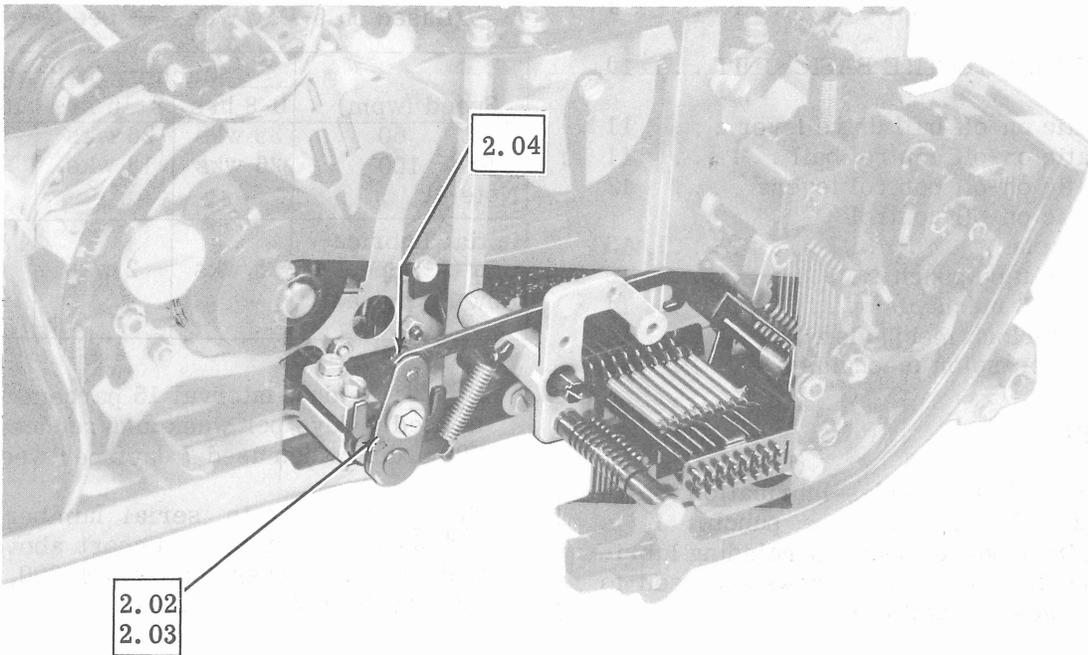
2. BASIC UNIT

2.01 Drive Link Mechanism Area

CAUTION: DO NOT USE ALCOHOL, MINERAL SPIRITS, OR OTHER SOLVENTS TO CLEAN PLASTIC PARTS OR PARTS WITH PROTECTIVE-DECORATIVE FINISHES. NORMALLY, A SOFT, DRY CLOTH SHOULD BE USED TO REMOVE DUST, OIL, GREASE, OR OTHERWISE CLEAN PARTS OR SUBASSEMBLIES. IF NECESSARY, A SOFT CLOTH DAMPENED WITH SOAP OR MILD DETERGENT MAY BE USED. AFTERWARDS, RINSE EACH CLEANED PART OF SUBASSEMBLY WITH A SOFT, DAMP CLOTH AND BUFF WITH A SOFT, DRY CLOTH.

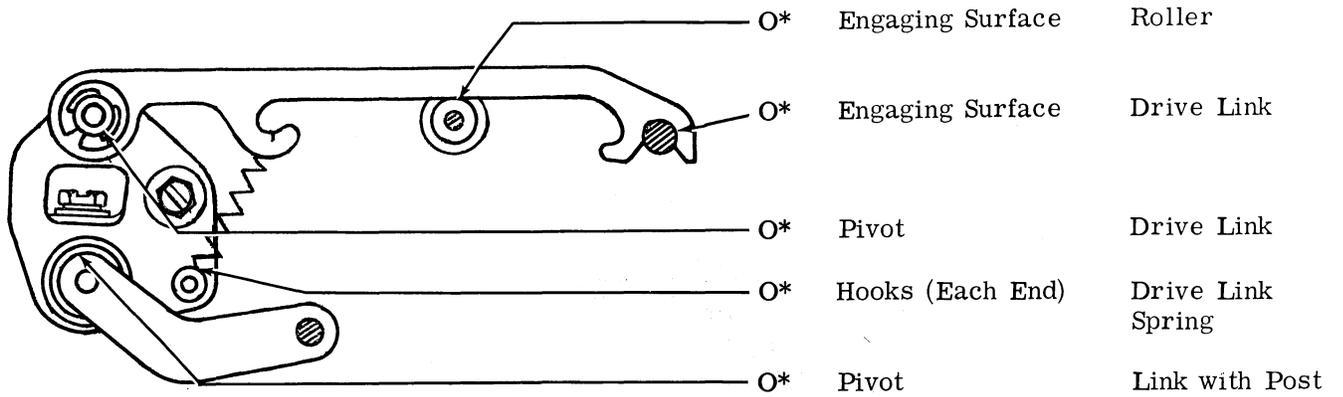
1.07 Materials needed for teletypewriter lubrication are listed in Section 570-004-701. Required tools are included in TP185830 maintenance tool kit and are listed in Section 570-005-800.

1.08 For disassembly and reassembly information refer to Section 574-125-702.



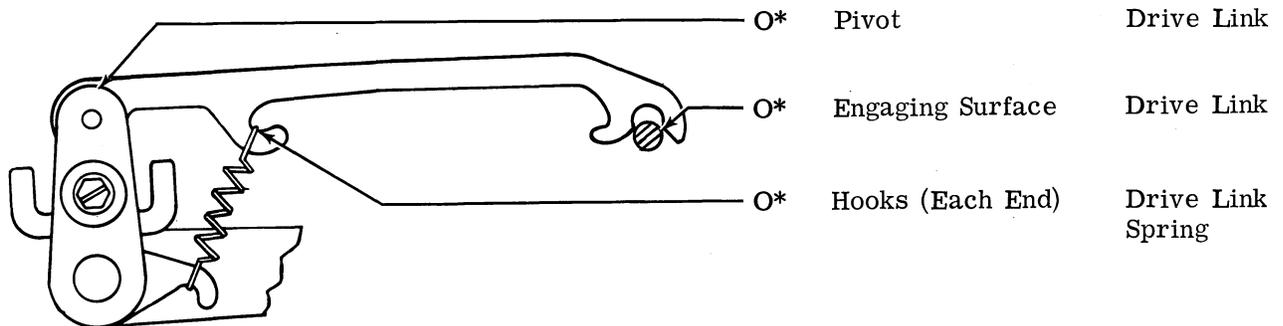
(Left Side View)

2.02 Drive Link Mechanism (Early Design)



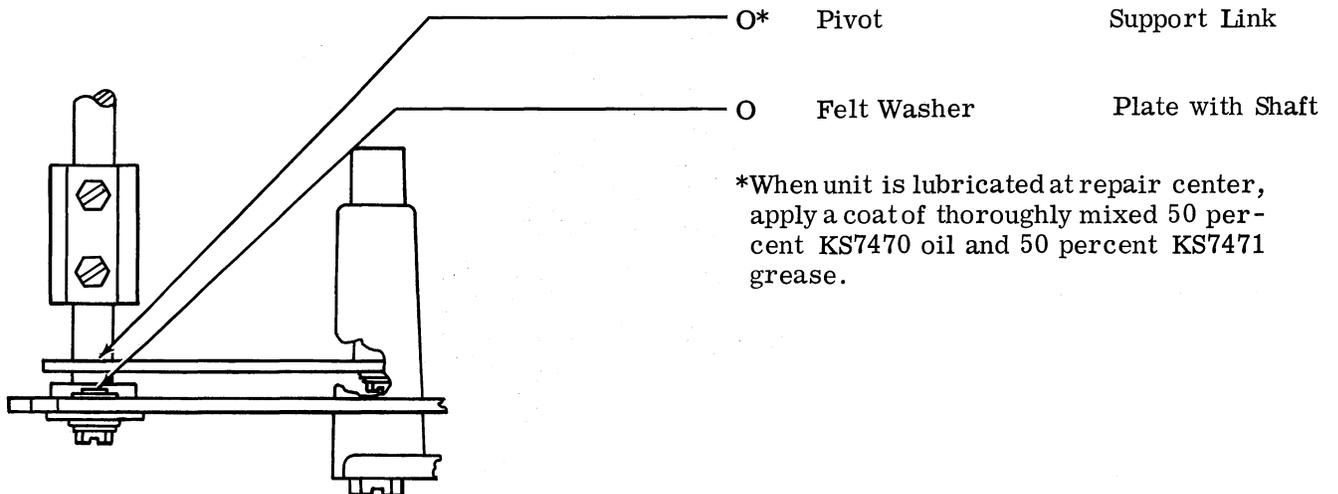
(Left Side View)

2.03 Drive Link Mechanism (Late Design)



(Left Side View)

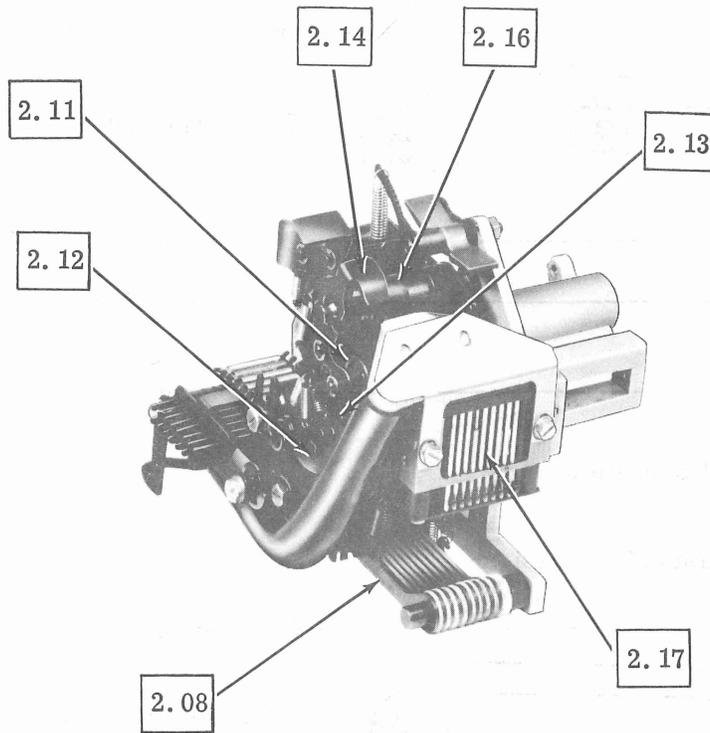
2.04 Support Link (Late Design)



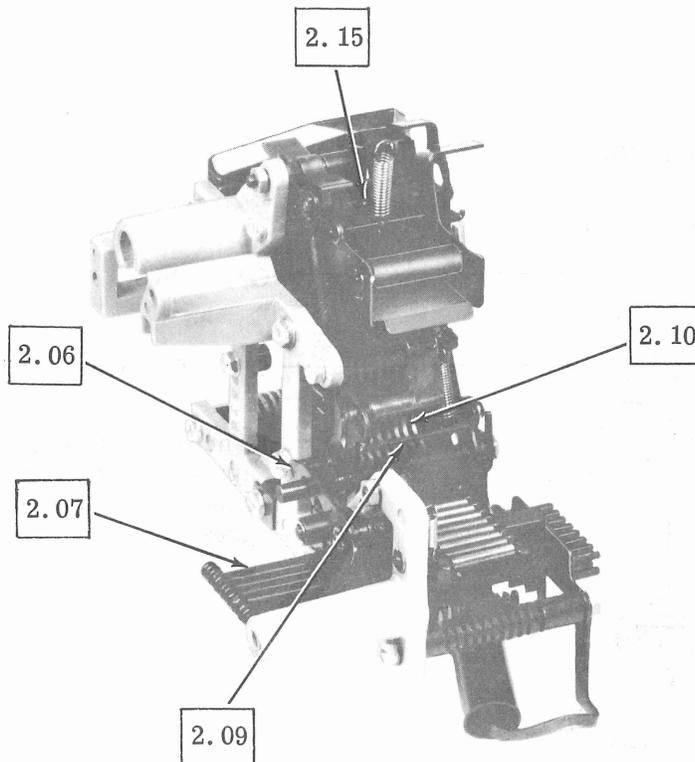
(Top View)

*When unit is lubricated at repair center, apply a coat of thoroughly mixed 50 percent KS7470 oil and 50 percent KS7471 grease.

2.05 Tape Punch

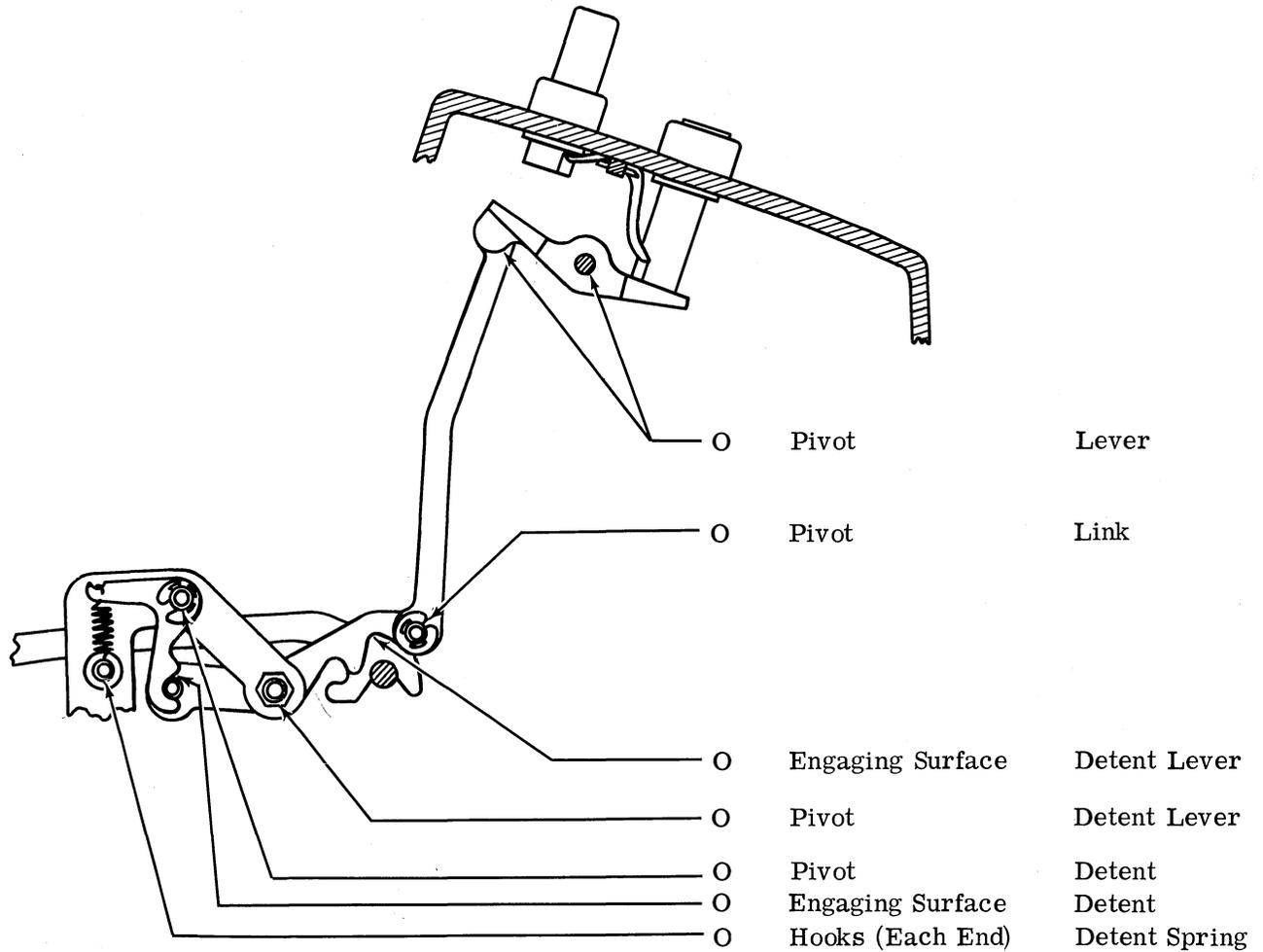


(Left Front View)



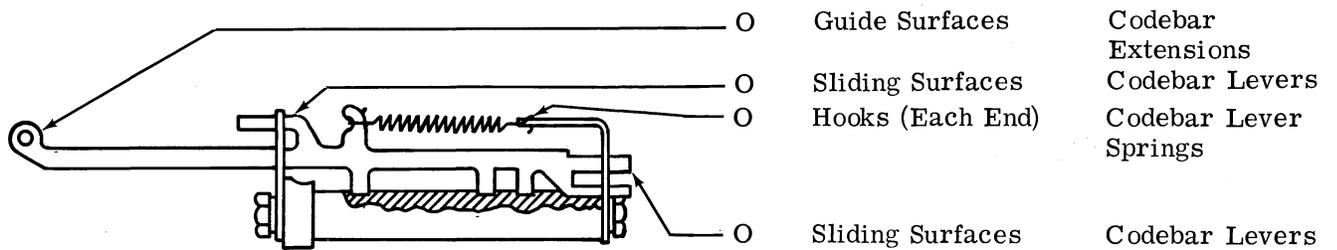
(Right Rear View)

2.06 Control Mechanism



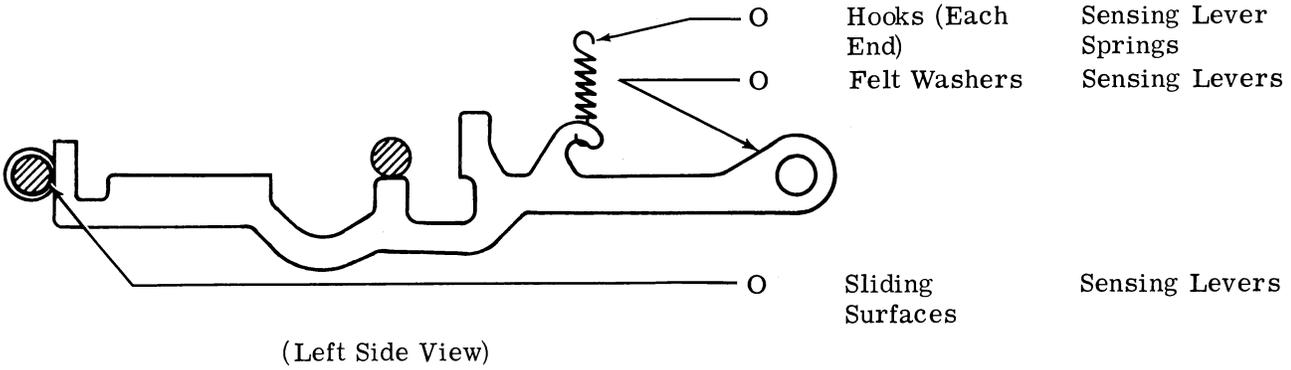
(Left Side View)

2.07 Codebar Levers

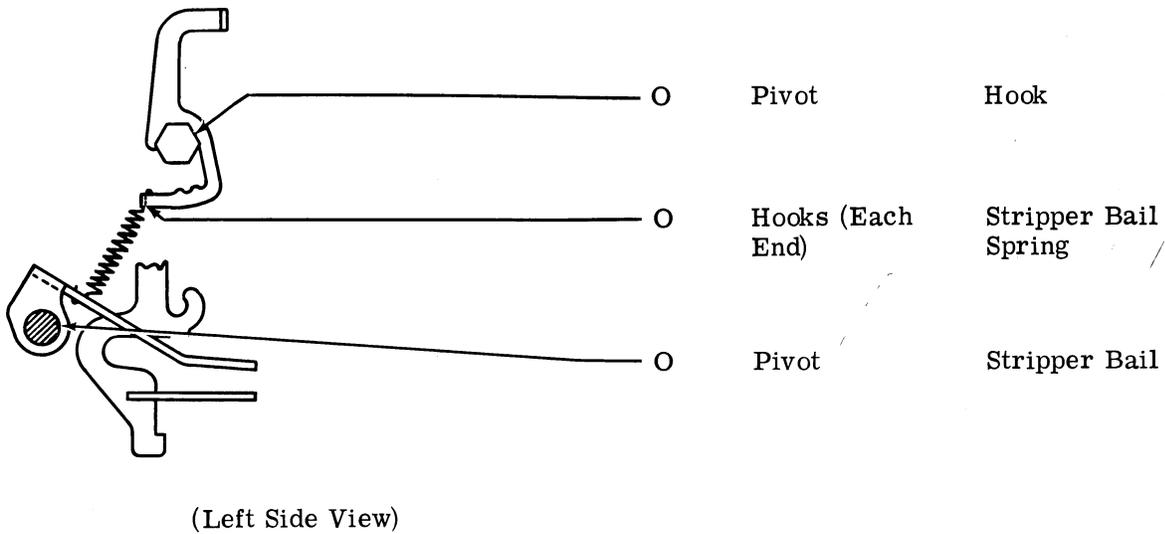


(Rear View)

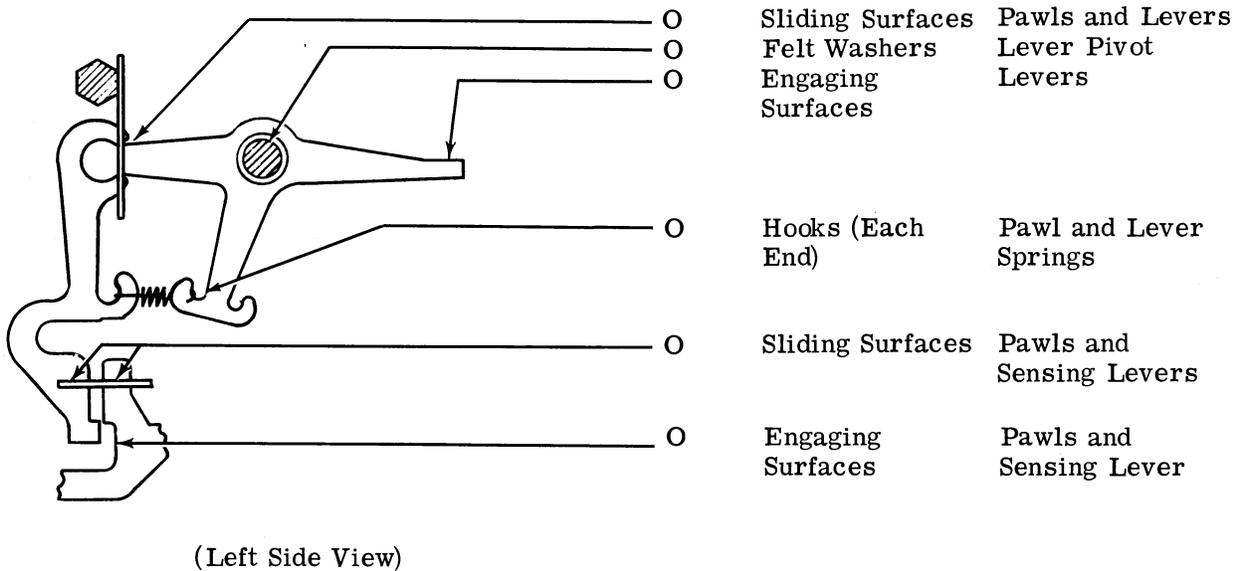
2.08 Sensing Levers



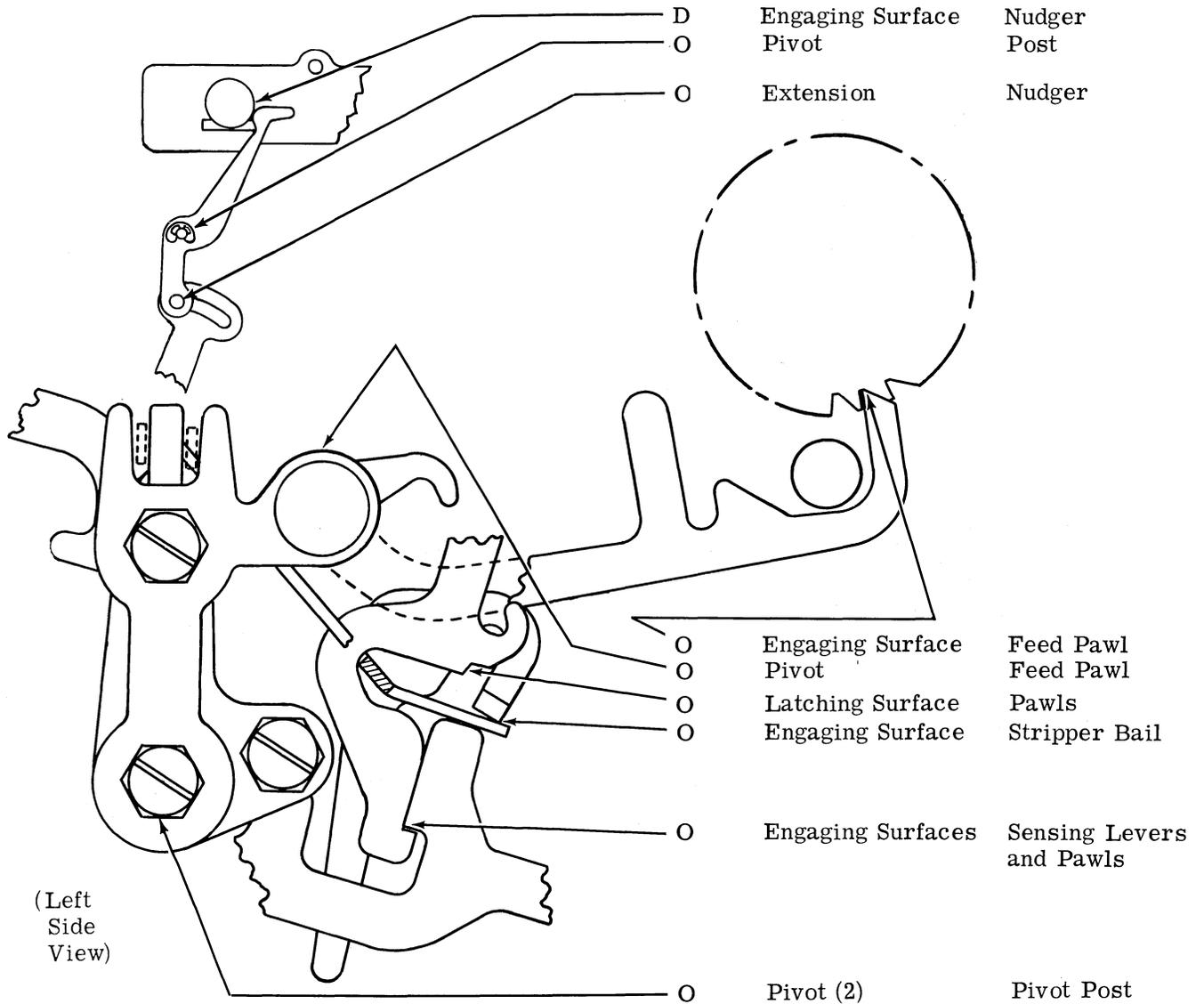
2.09 Stripper Bail



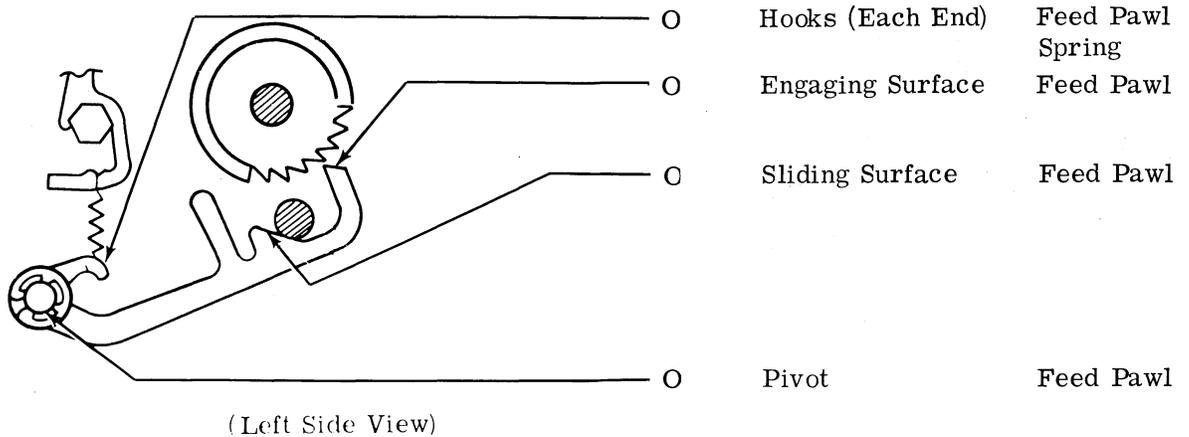
2.10 Pawls and Levers



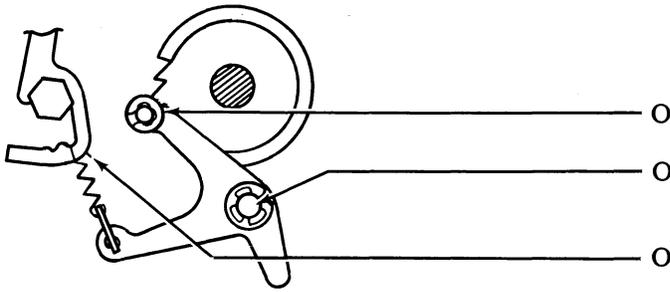
2.11 Feed Mechanism



2.12 Feed Pawl



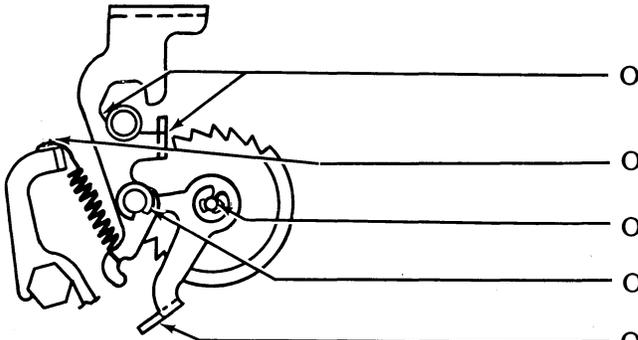
2.13 Detent Lever



- O Roller Detent Lever
- O Pivot Detent Lever Shaft
- O Hooks (Each End) Detent Lever Spring

(Left Side View)

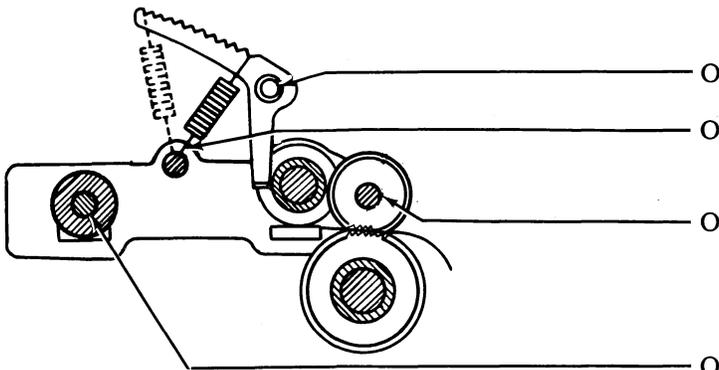
2.14 Backspace Lever



- O Sliding Surface Backspace Lever
- O Hooks (Each End) Backspace Lever Spring
- O Pivot Lever
- O Pivot Lever
- O Engaging Surface Lever Extension

(Left Side View)

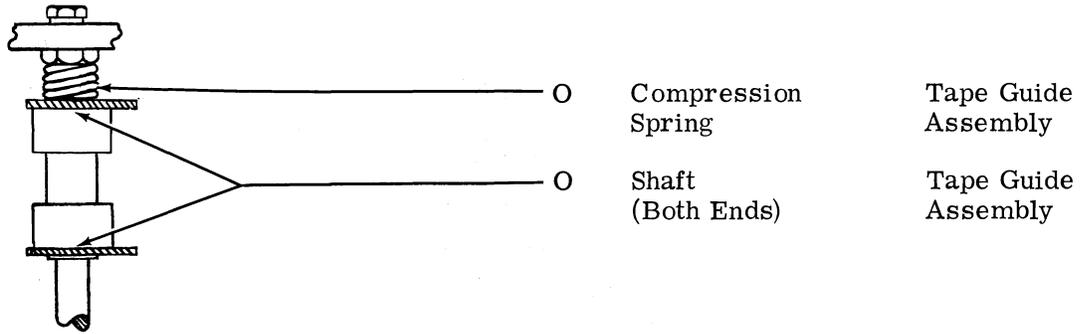
2.15 Tape Guide Assembly



- O Pivot Arm w/Bushing
- O Hooks (Each End) Tape Guide Roller Spring
- O Shaft (Both Ends) Roller
- O Pivots (2) Rear Roller

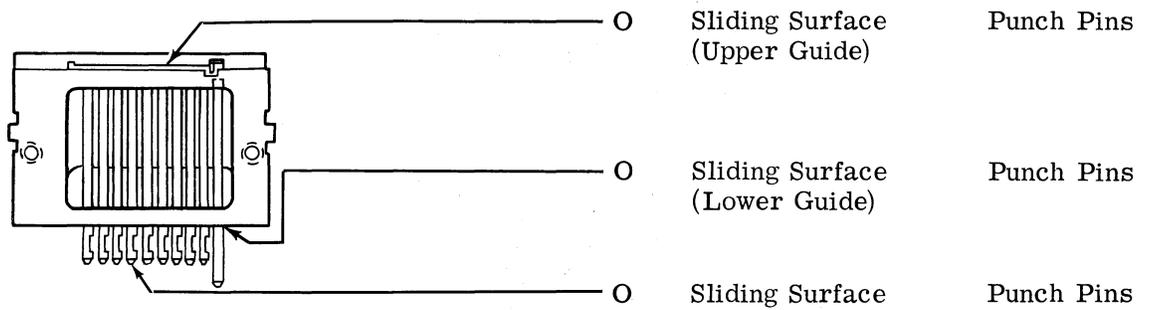
(Left Side View)

2.16 Tape Guide Roller



(Top View)

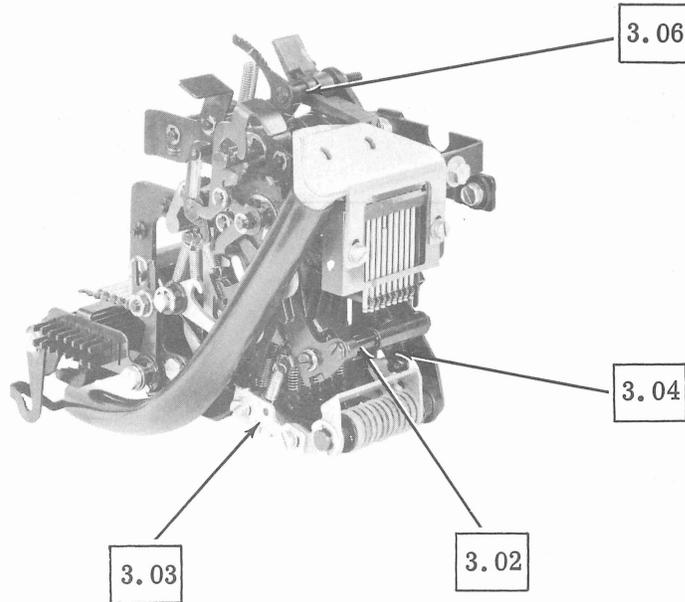
2.17 Punch Block Assembly



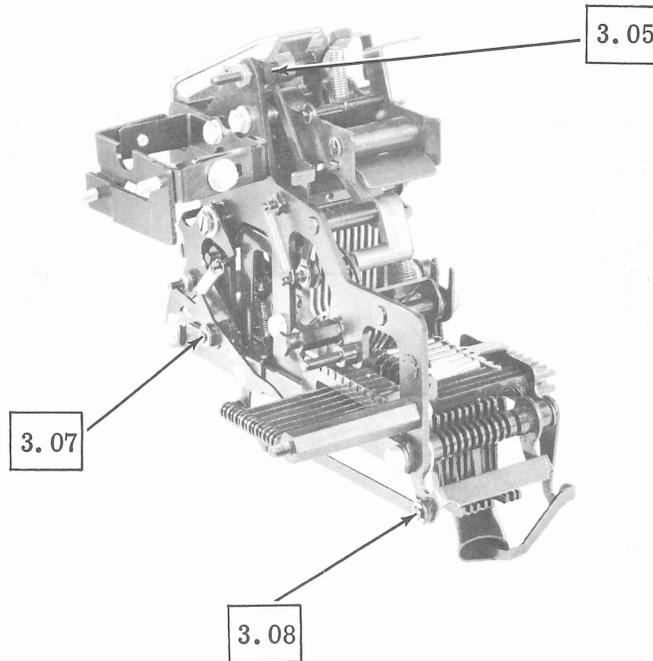
(Front View)

3. VARIATIONS TO THE BASIC UNIT

3.01 Automatic Tape Punch

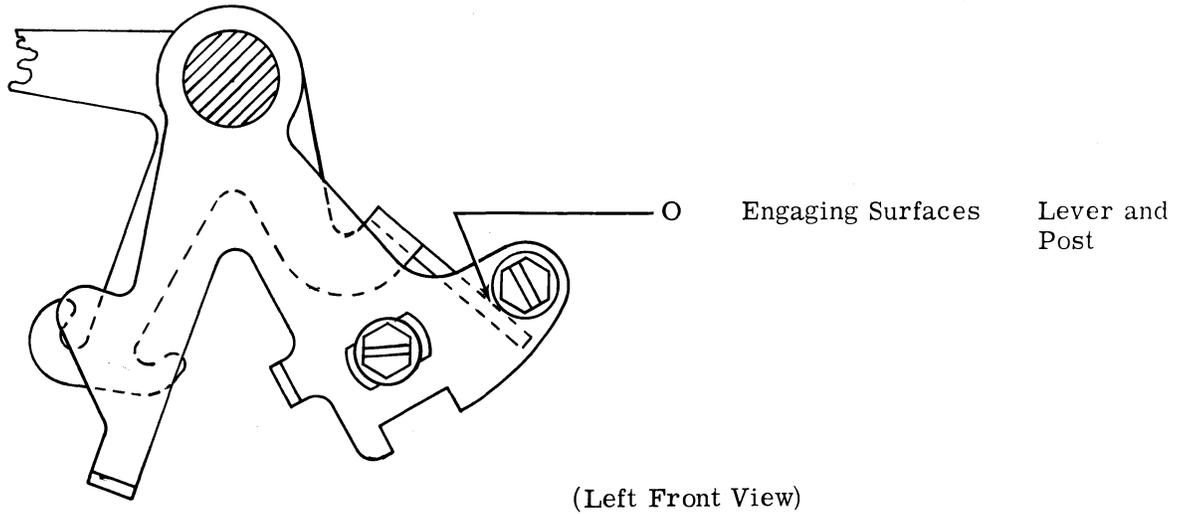


(Left Front View)

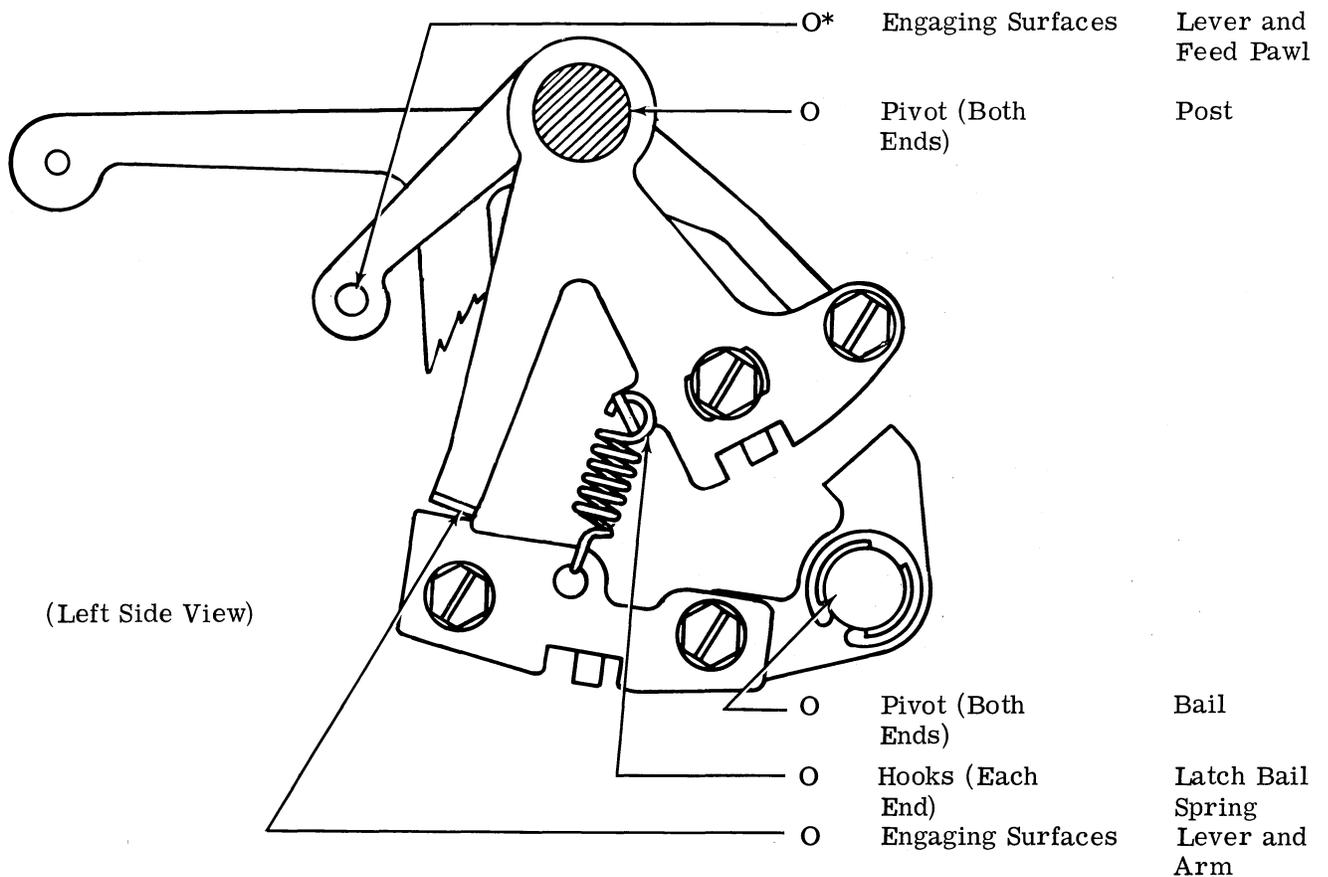


(Right Front View)

3.02 Automatic On-Off Bail Drive Lever

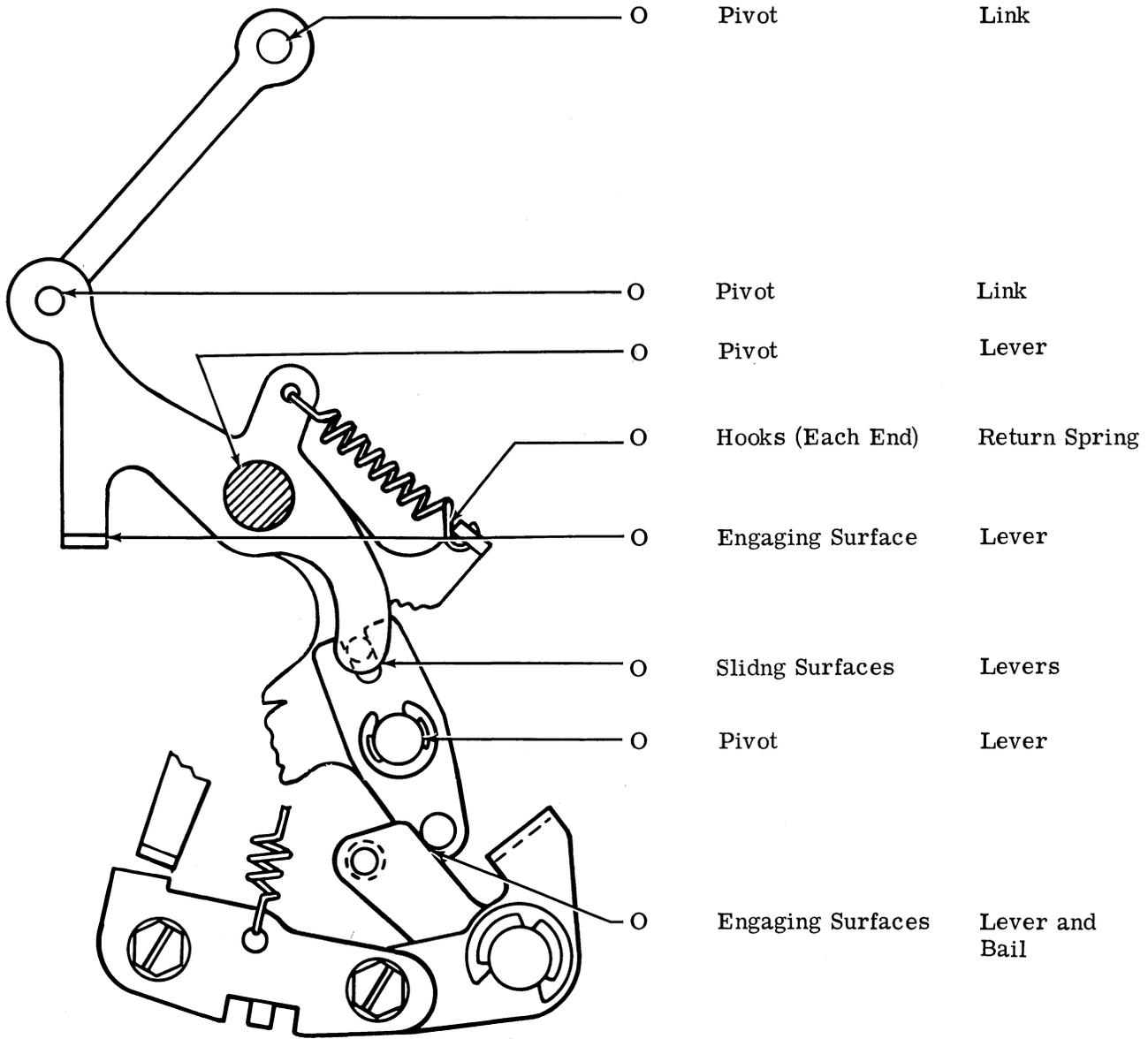


3.03 Automatic On-Off Control Bail



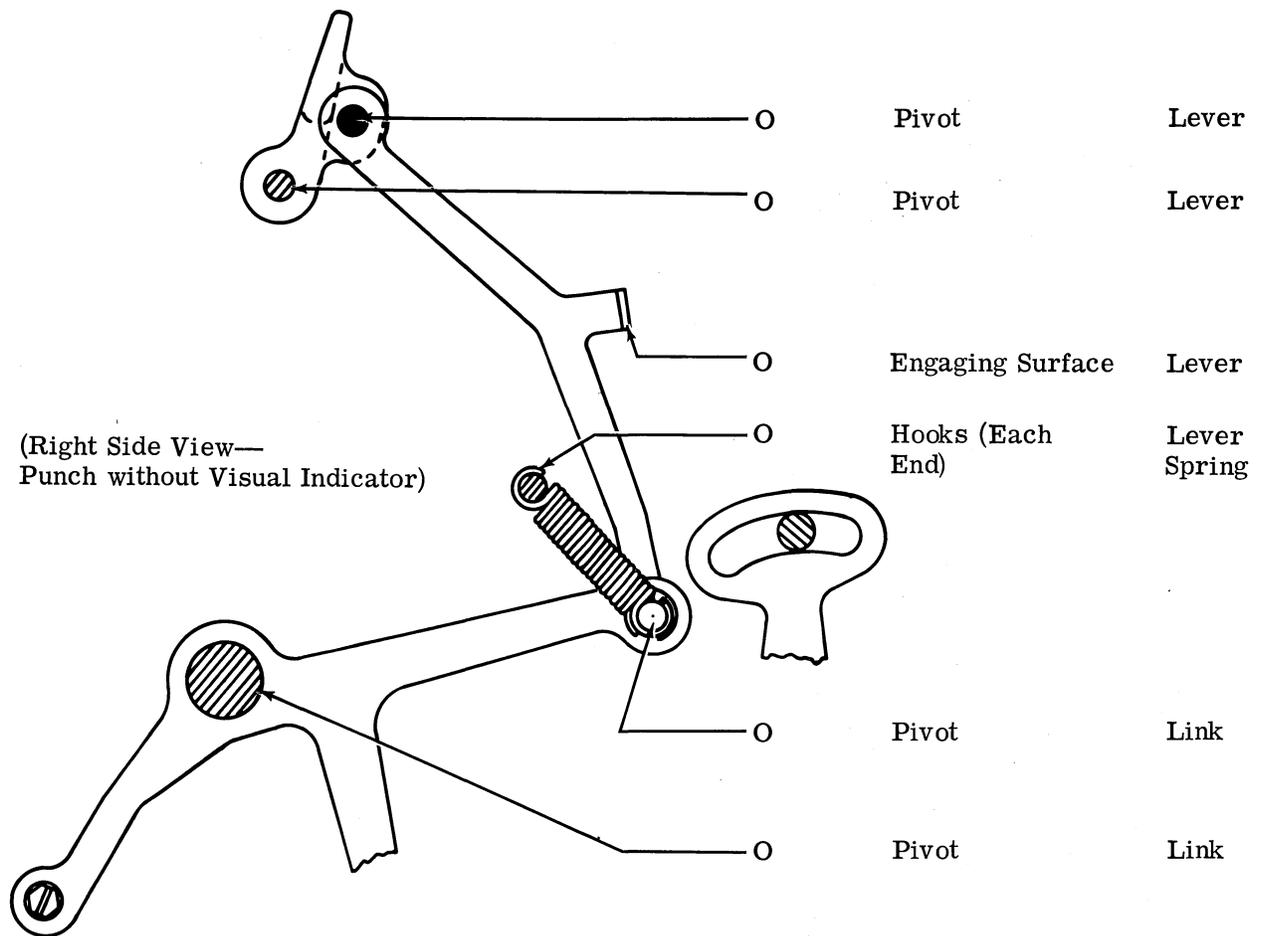
*When unit is lubricated at repair center, apply a coat of thoroughly mixed 50 percent KS7470 oil and 50 percent KS7471 grease.

3.04 Automatic On-Off Control Levers

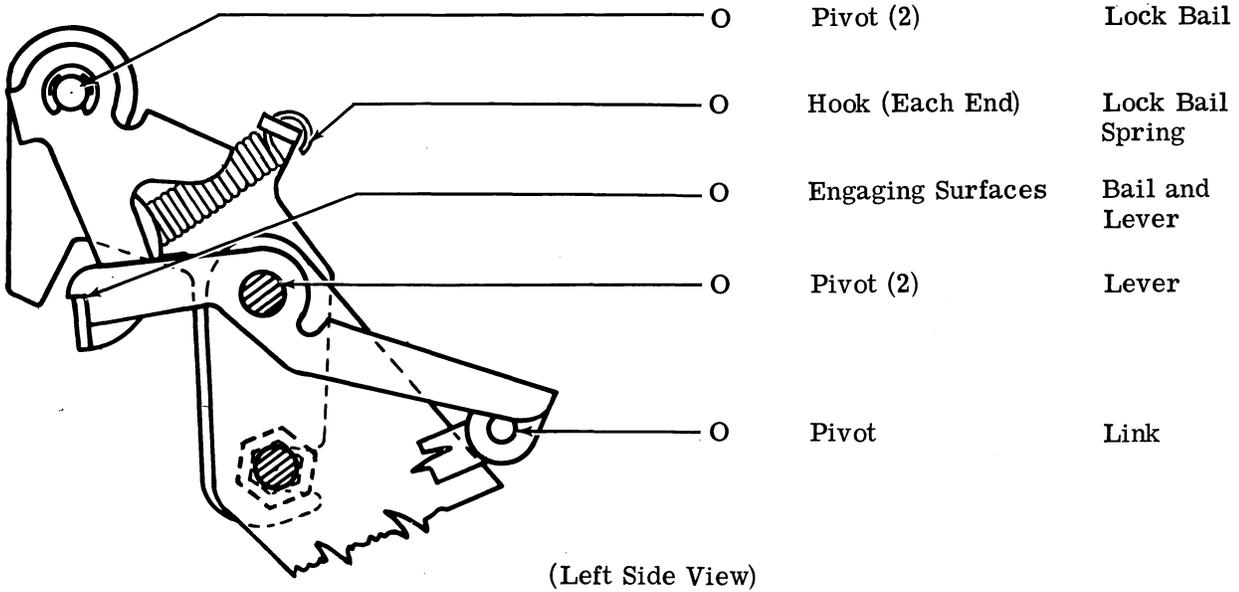


(Left Side View)

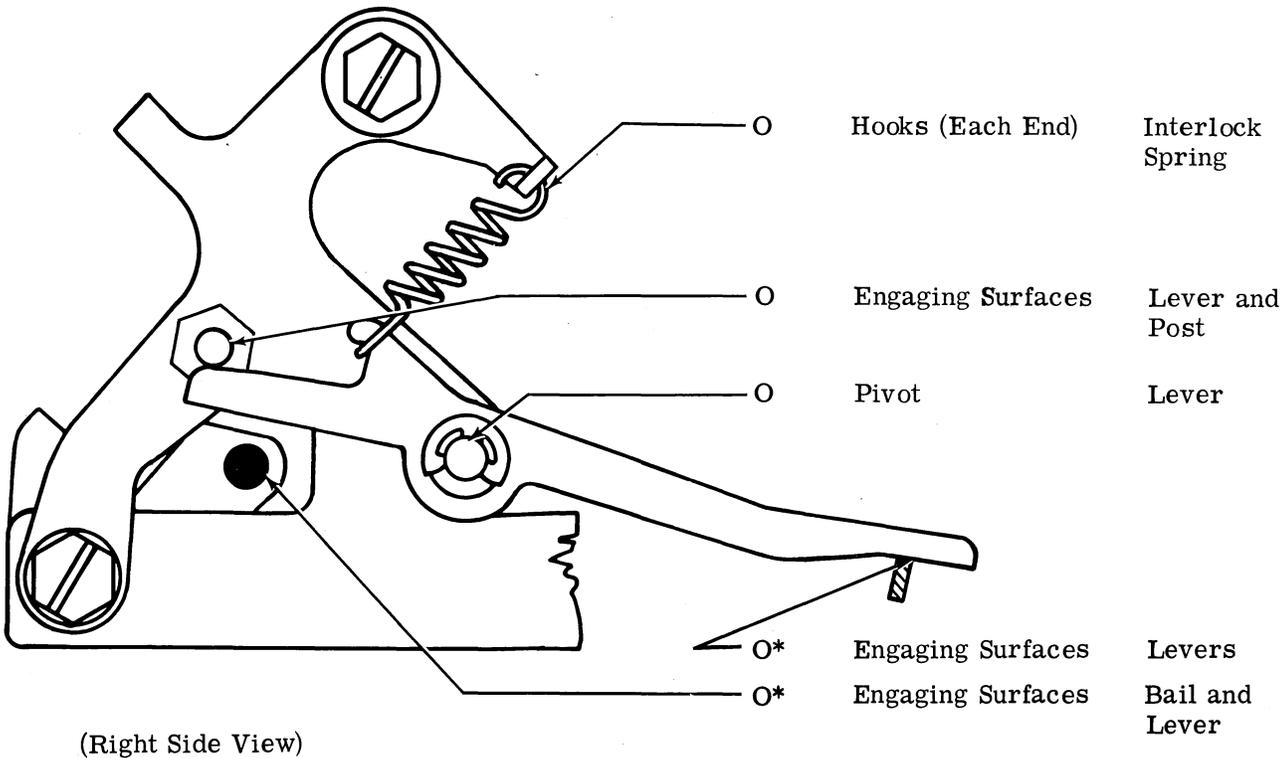
3.05 Automatic On-Off Control Mechanisms



3.06 LOCK "ON" Mechanism

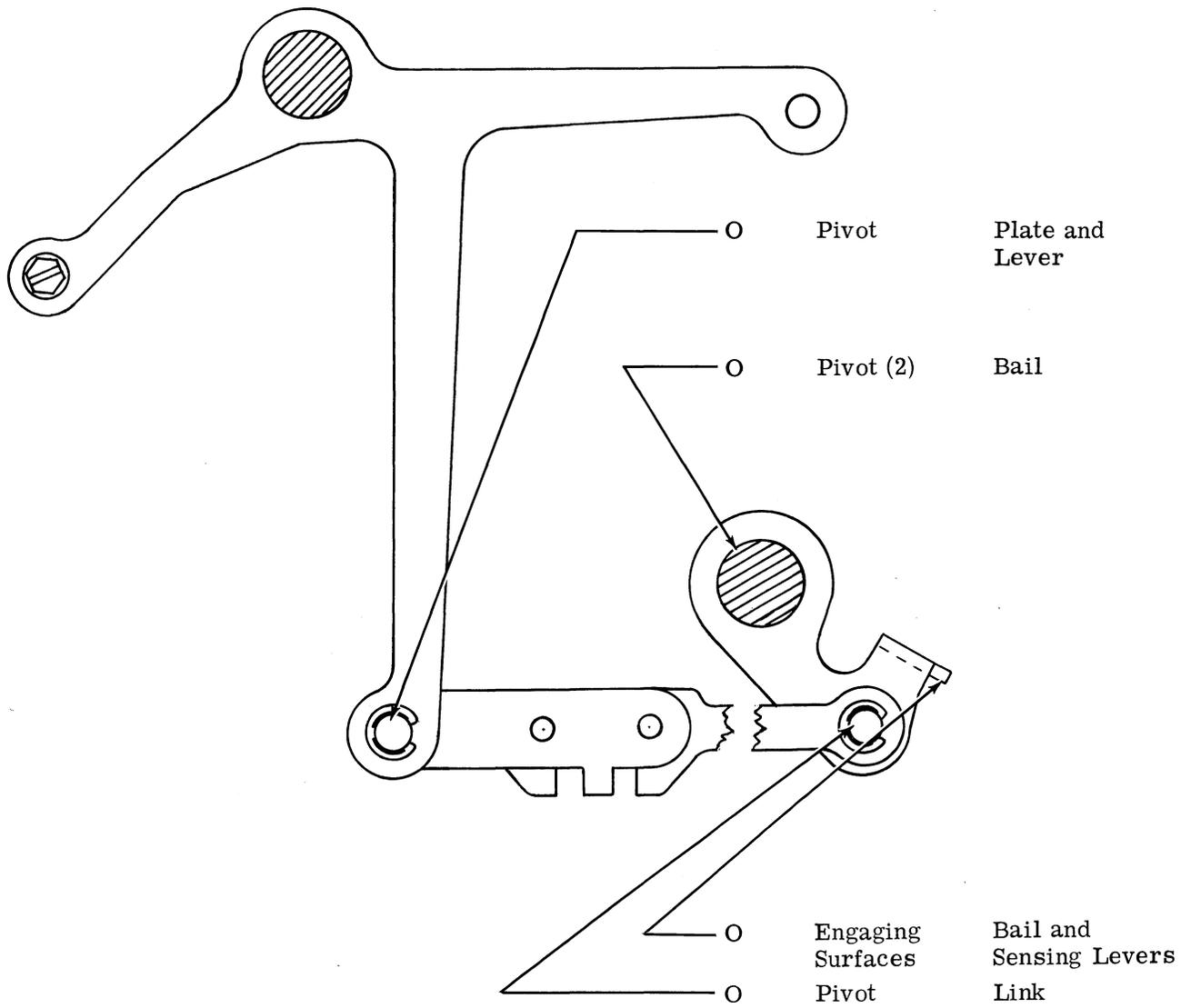


3.07 Punch Interlock Mechanism



*When unit is lubricated at repair center, apply a coat of thoroughly mixed 50 percent KS7470 oil and 50 percent KS7471 grease.

3.08 Sense Suppression Mechanism



(Right Side View)