33 TAPE PUNCH

LUBRICATION

CONTENTS

1. GENERAL

1.01 This section provides lubrication requirements for the 33 tape punch. It is reissued to add new lubrication interval requirements for the tape punch. Marginal arrows 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 the tape punch, but avoid overlubrication that might permit the lubricant to drip or be thrown onto adjacent parts. Saturate all felt washers and oilers with oil.

1.04 Initial lubrication of the tape punch should be completed just prior to placing it into service. The lubrication intervals for the tape punch are similar to the lubrication intervals of the set. The lubrication intervals are dictated by the hours of use (including idle time) on a daily basis. The following charts and notes list the appropriate lubrication intervals.

LUBRICATION INTERVALS IN WEEKS
BASED ON 5-DAY WEEK (Note 1)

NEWLY INSTALLED EQUIPMENT

	DAILY USE		
SPEED	0 TO 8 HOURS	8 TO 16 HOURS	16 TO 24 HOURS
All Speeds	3 Weeks	2 Weeks	1 Week

REGULAR LUBRICATION

	DAILY USE		
SPEED	0 TO 8 HOURS	8 TO 16 HOURS	16 TO 24 HOURS
60 WPM	39 Weeks	26 Weeks	13 Weeks
100 WPM	26 Weeks	13 Weeks	6 Weeks

Note 1: Reduce lubrication interval 15 percent when usage is 6 days per week, 30 percent when usage is 7 days per week.

Note 2: Sets operating at speeds between 60 and 100 wpm use lubrication requirements for the lower of the two speeds.

Note 3: The lubrication intervals are for the set as a whole — all components of the set should be lubricated.

Note 4: Just prior to storage, all equipment should be thoroughly lubricated.

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 (TKS7470)

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 viewers's left. Orientation references in the drive link mechanism area consider the drive link to be up and located to the viewer's left.

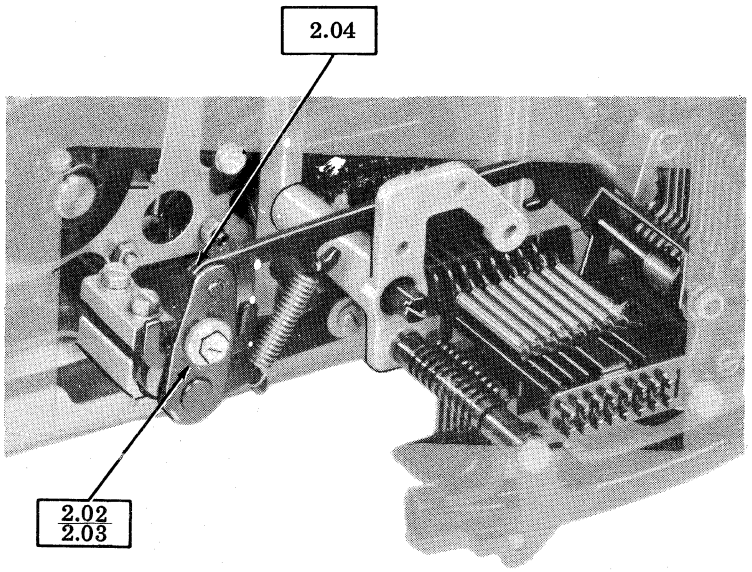
CAUTION: DO NOT USE ALCOHOL, MINERAL SPIRITS, OR OTHER SOLVENTS TO CLEAN PLASTIC PARTS OR PARTS WITH PROTECTIVE-DECORATIVE FINISHES. NORMALLY, A SOFT, DRY CLOTH SHOULD BE USED TO REMOVE DUST, OIL, GREASE, OR OTHERWISE CLEAN PARTS OR SUBASSEMBLIES. IF NECESSARY, A SOFT CLOTH DAMPENED WITH SOAP OR MILD 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 Tools and materials needed for teletypewriter lubrication are listed in Section 570-005-800TC.

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

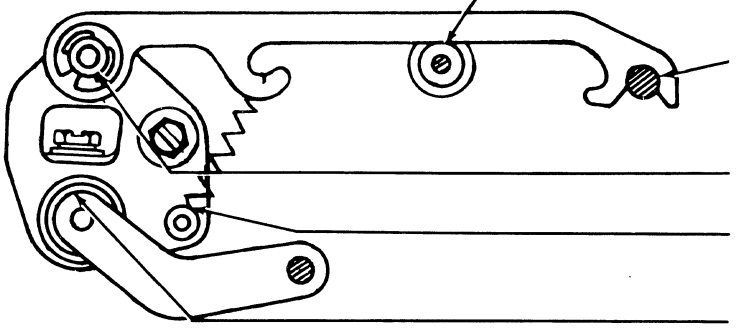
2. BASIC UNIT

2.01 Drive Link Mechanism Area



(Left Side View)

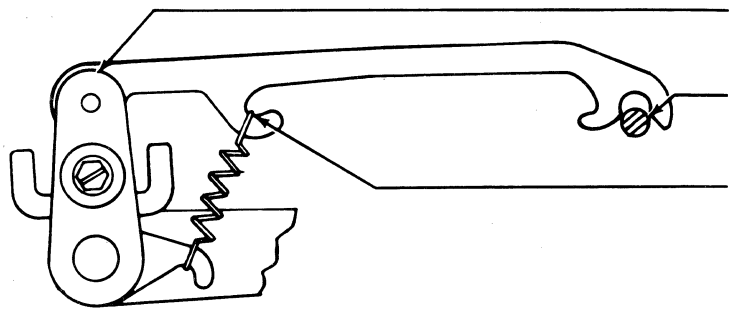
2.02 Drive Link Mechanism (Early Design)



O*	Engaging Surface	Roller
O*	Engaging Surface	Drive Link
O*	Pivot	Drive Link
O*	Hooks (Each End)	Drive Link Spring
O*	Pivot	Link with Post

(Left Side View)

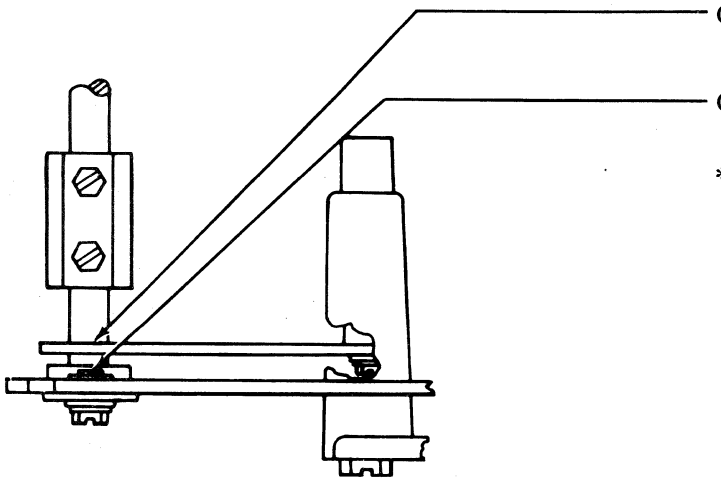
2.03 Drive Link Mechanism (Late Design)



O*	Pivot	Drive Link
O*	Engaging Surface	Drive Link
O*	Hooks (Each End)	Drive Link Spring

(Left Side View)

2.04 Support Link (Late Design)

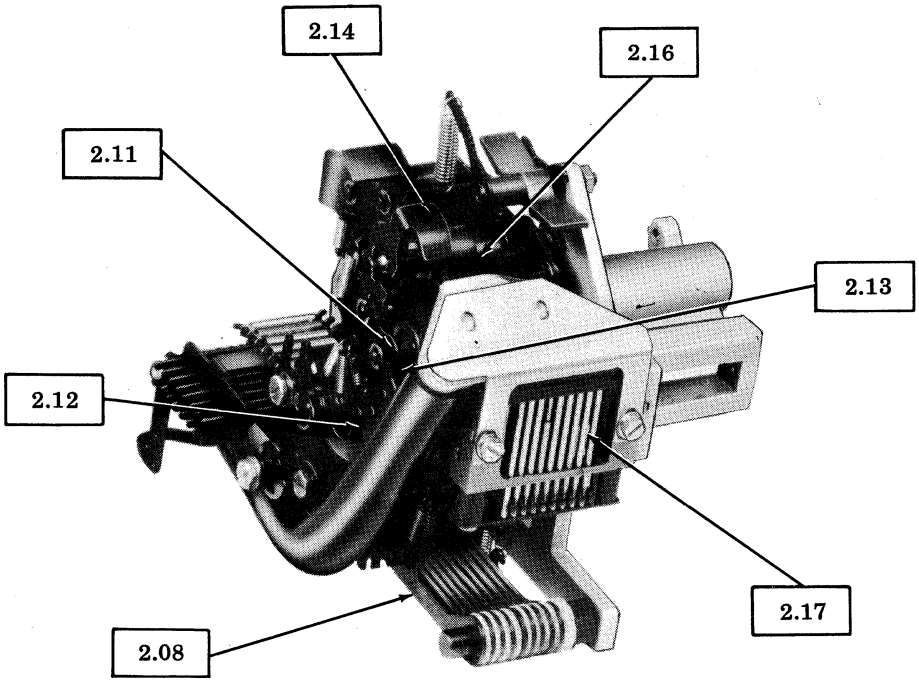


O*	Pivot	Support Link
O	Felt Washer	Plate with Shaft

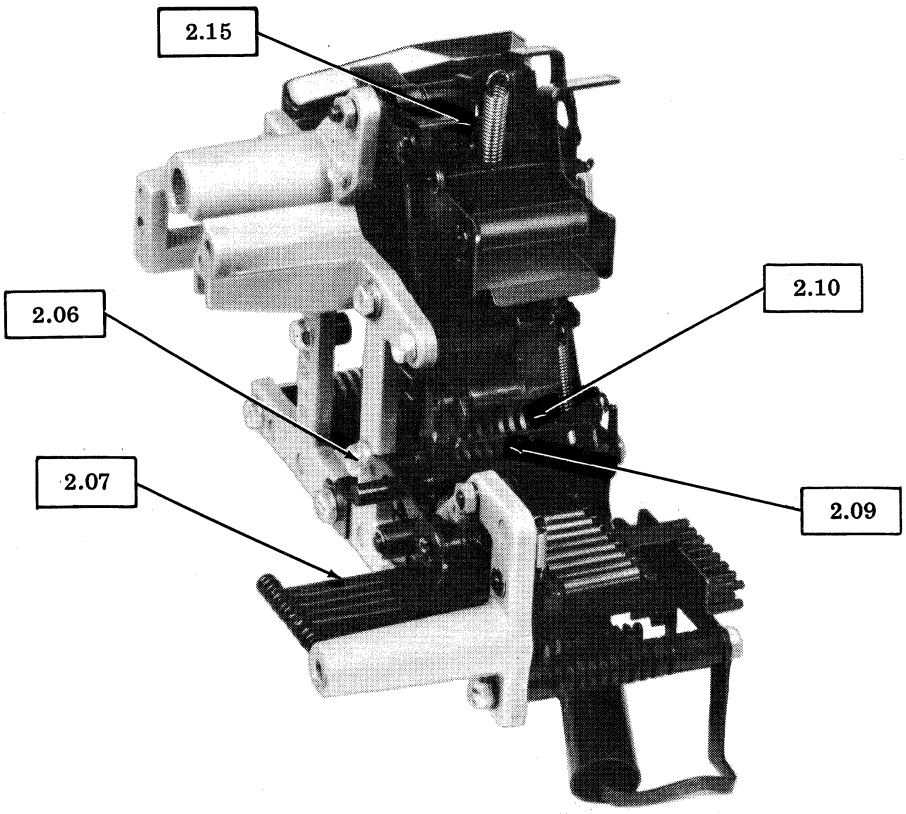
*At 1500 hour lubrication intervals, apply a coat of thoroughly mixed 50 percent TKS7470 oil and 50 percent TKS7471 grease.

(Top View)

2.05 Tape Punch

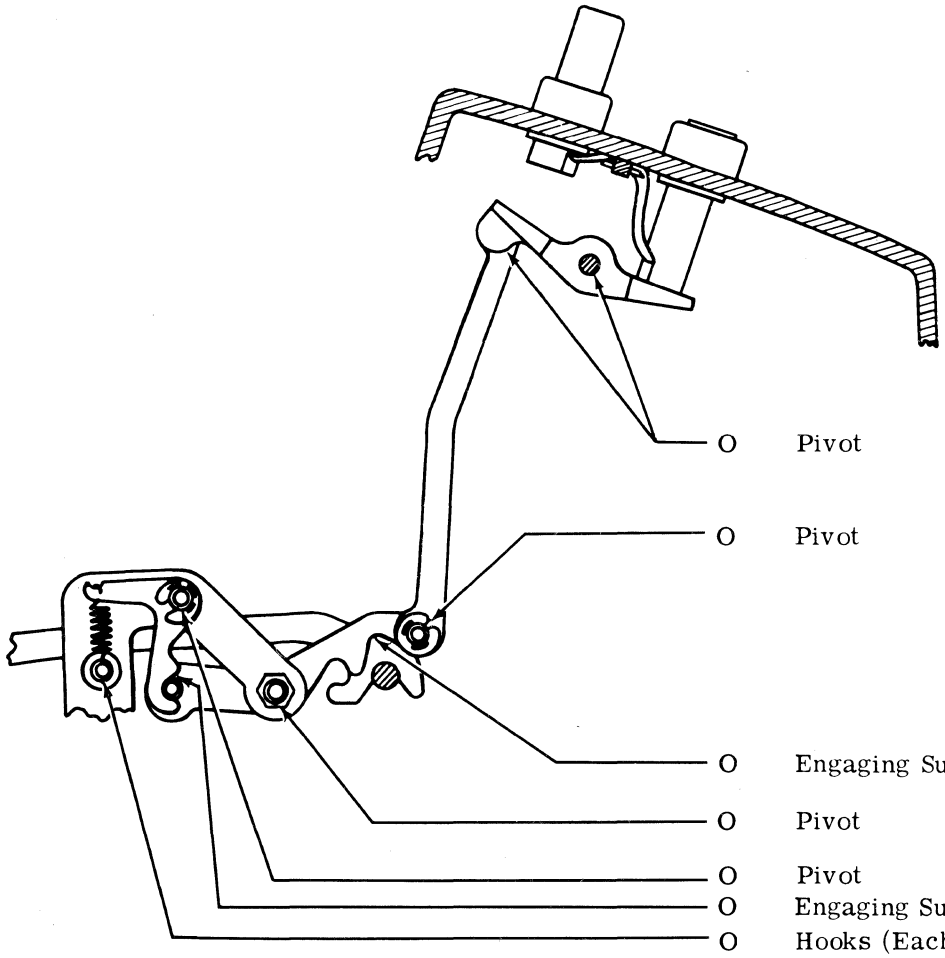


(Left Front View)



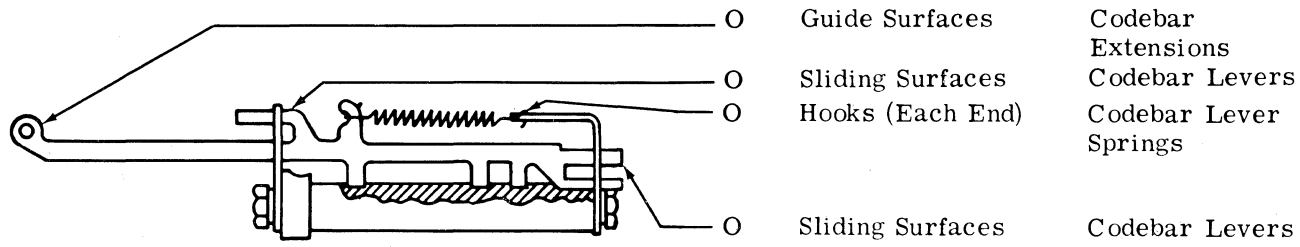
(Right Rear View)

2.06 Control Mechanism



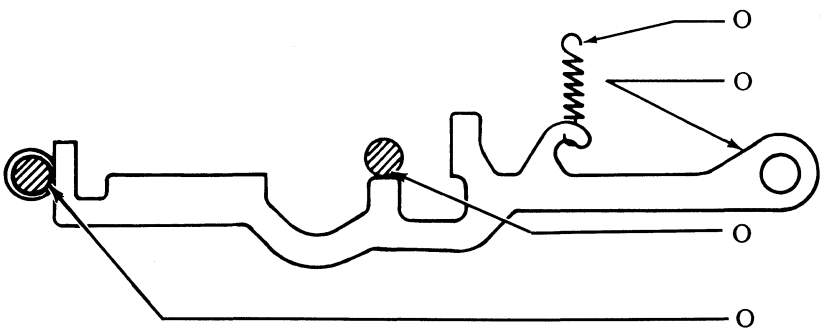
(Left Side View)

2.07 Codebar Levers



(Rear View)

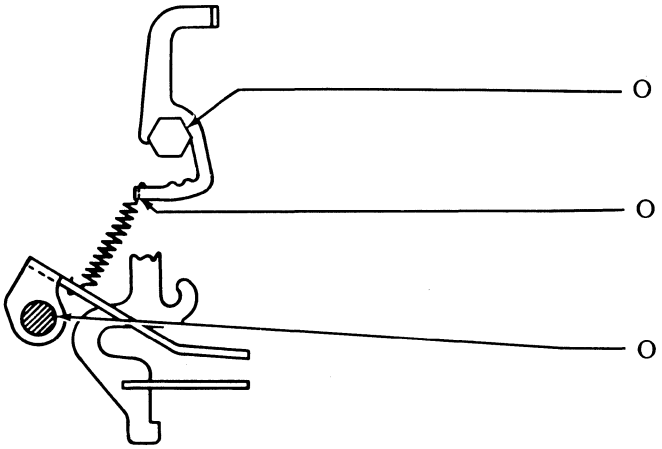
2.08 Sensing Levers



(Left Side View)

O	Hooks (Each End)	Sensing Lever Springs
O	Felt Washers	Sensing Levers
O	Sliding Surface	Sensing Levers
O	Sliding Surfaces	Sensing Levers

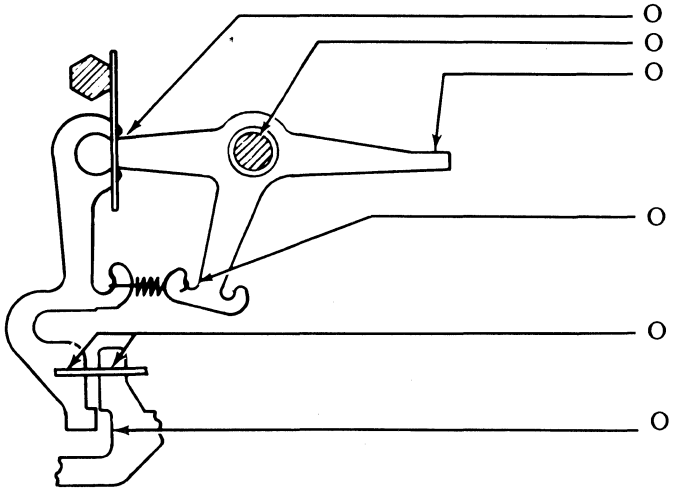
2.09 Stripper Bail



(Left Side View)

O	Pivot	Hook
O	Hooks (Each End)	Stripper Bail Spring (Early Design Only)
O	Pivot (Torsion Spring, Late Design)	Stripper Bail

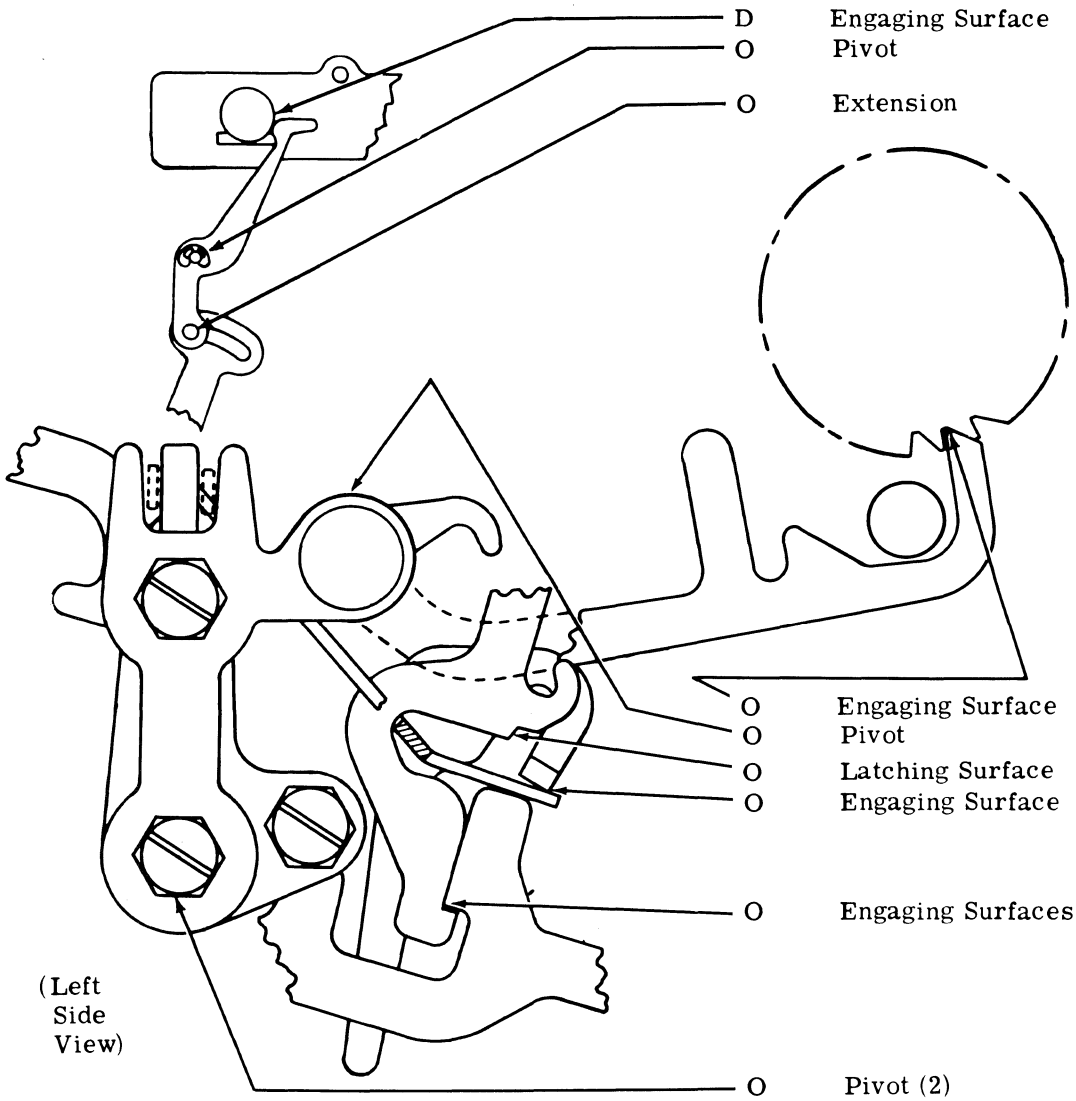
2.10 Pawls and Levers



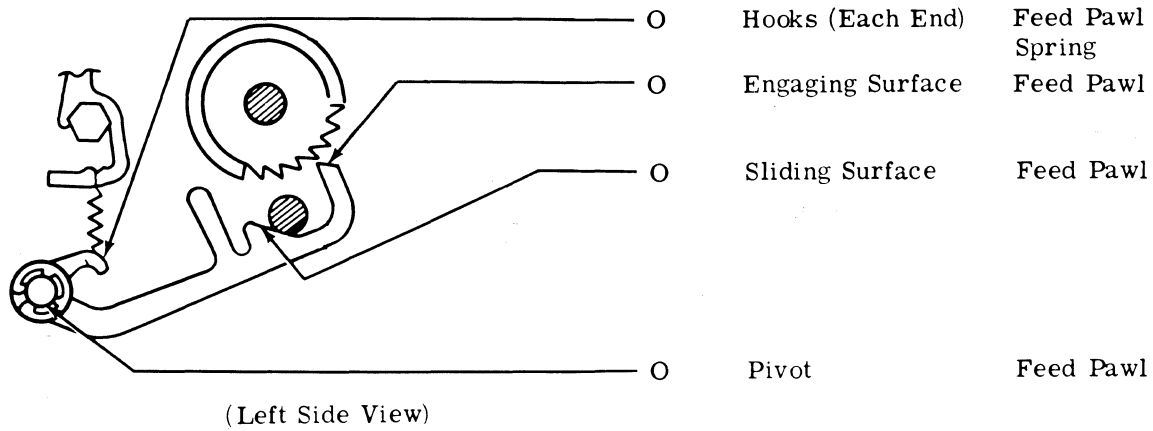
(Left Side View)

O	Sliding Surfaces	Pawls and Levers
O	Felt Washers	Lever Pivot
O	Engaging Surfaces	Levers
O	Hooks (Each End)	Pawl and Lever Springs
O	Sliding Surfaces	Pawls and Sensing Levers
O	Engaging Surfaces	Pawls and Sensing Lever

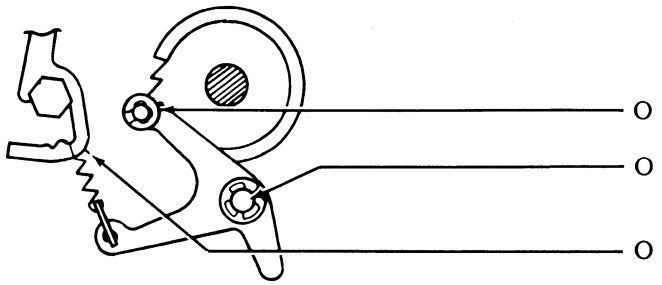
2.11 Feed Mechanism



2.12 Feed Pawl



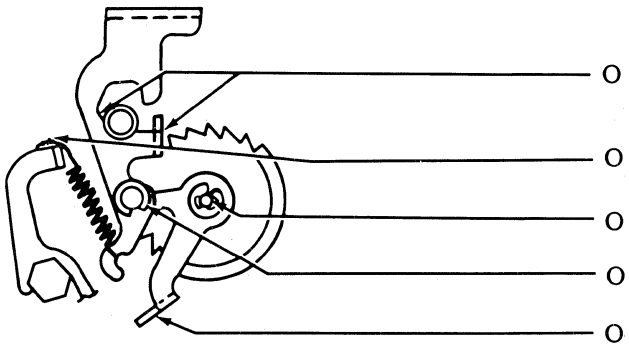
2.13 Detent Lever



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

(Left Side View)

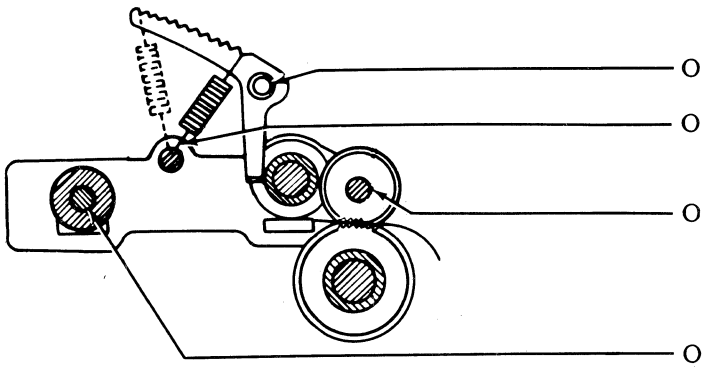
2.14 Backspace Lever



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)

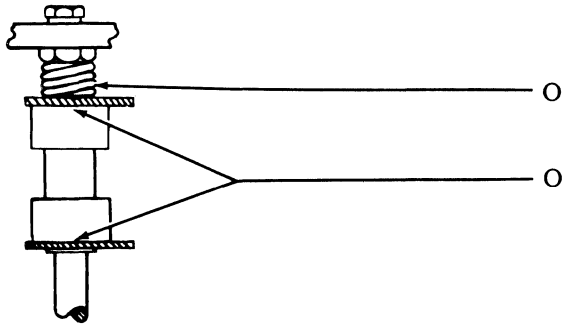
2.15 Tape Guide Assembly



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)

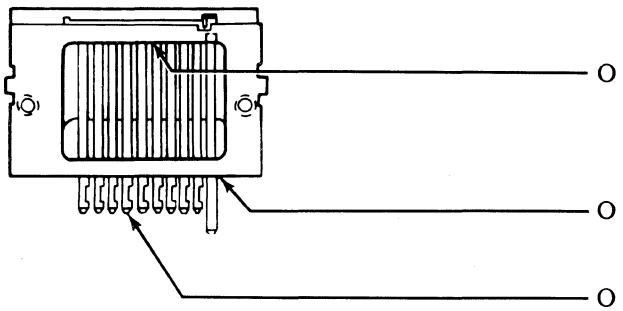
2.16 Tape Guide Roller



O	Compression Spring	Tape Guide Assembly
O	Shaft (Both Ends)	Tape Guide Assembly

(Top View)

2.17 Punch Block Assembly

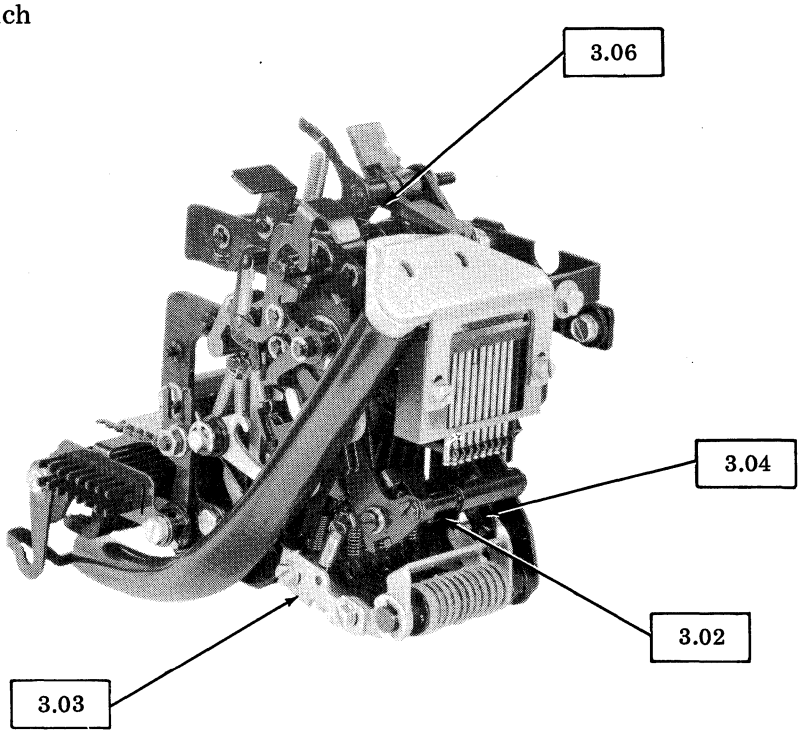


O	Sliding Surface (Upper Guide)	Punch Pins
O	Sliding Surface (Lower Guide)	Punch Pins
O	Sliding Surface	Punch Pins

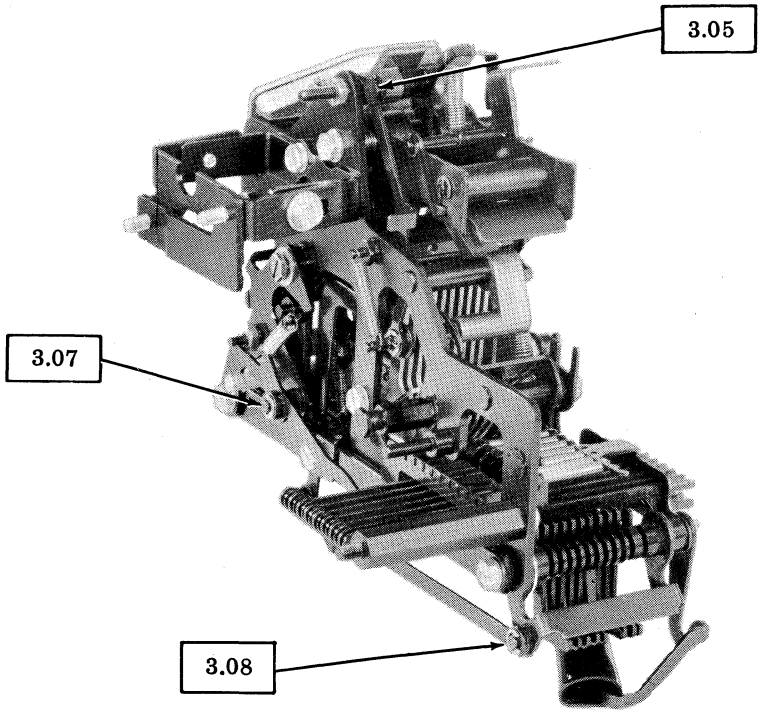
(Front View)

3. VARIATIONS TO THE BASIC UNIT

3.01 Automatic Tape Punch

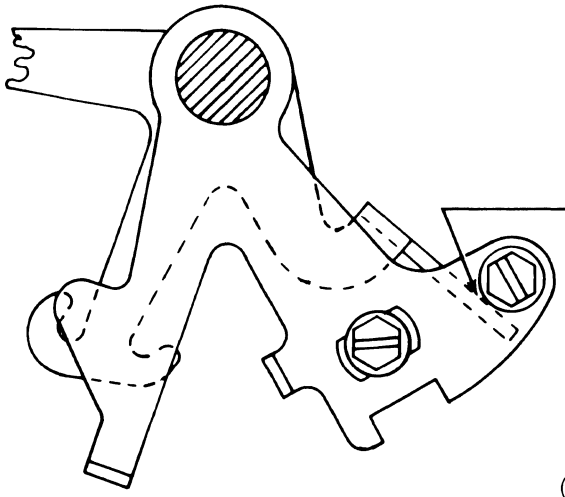


(Left Front View)



(Right Front View)

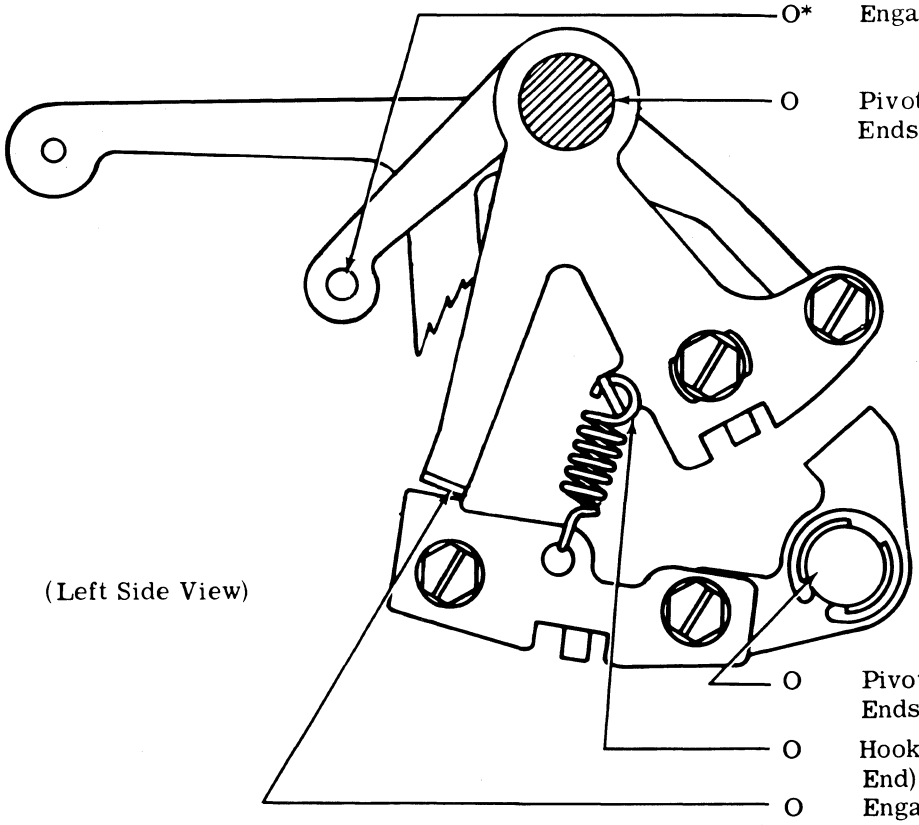
3.02 Automatic On-Off Bail Drive Lever



O	Engaging Surfaces	Lever and Post

(Left Front View)

3.03 Automatic On-Off Control Bail

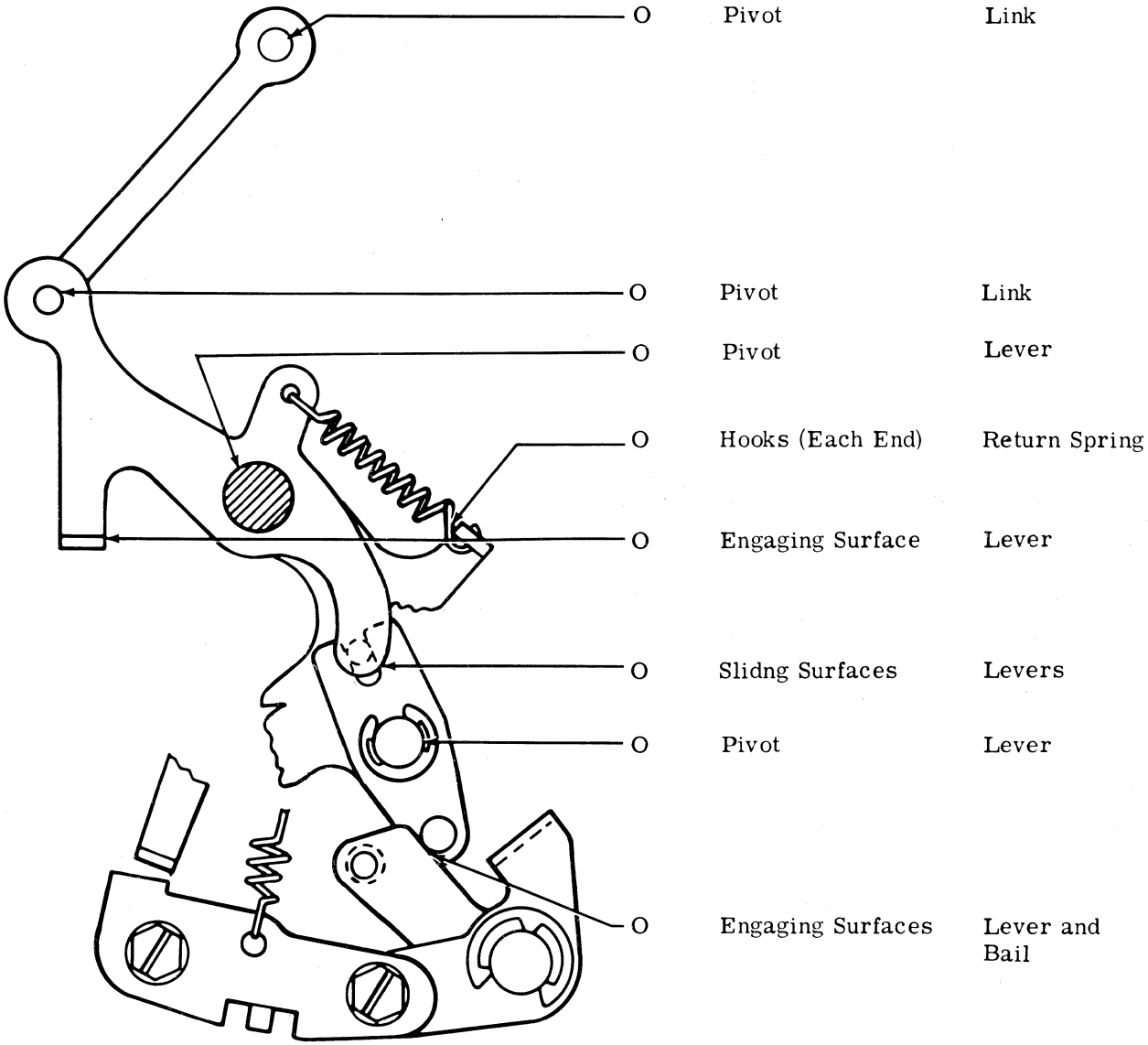


O*	Engaging Surfaces	Lever and Feed Pawl
O	Pivot (Both Ends)	Post
O	Pivot (Both Ends)	Bail
O	Hooks (Each End)	Latch Bail Spring
O	Engaging Surfaces	Lever and Arm

(Left Side View)

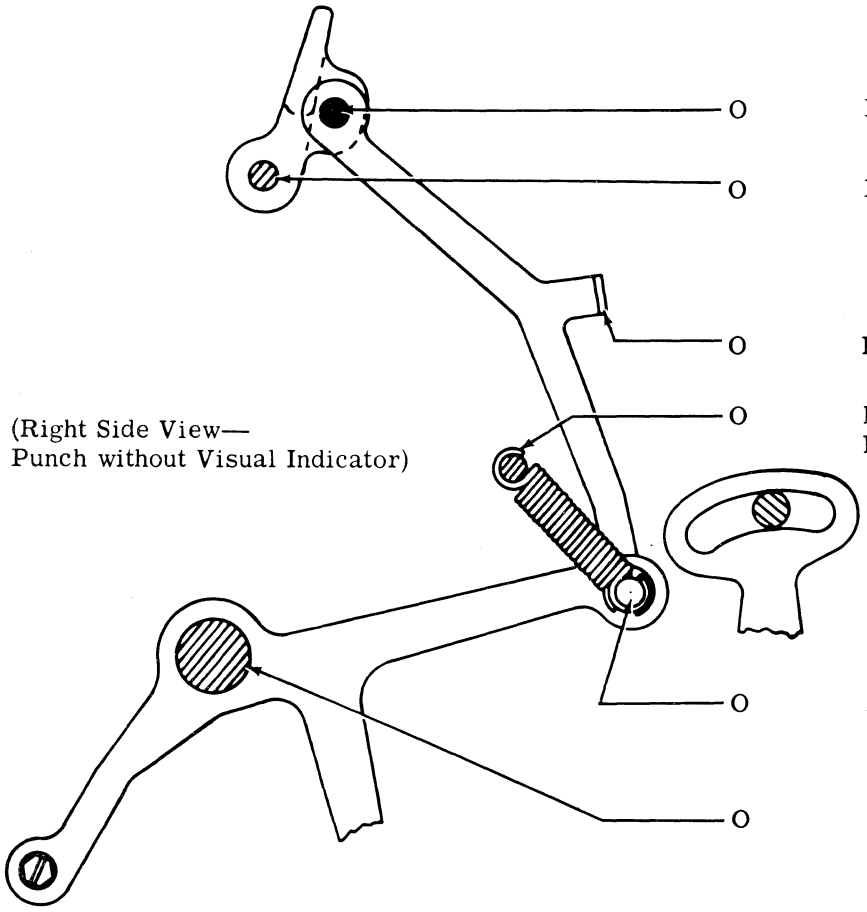
*At 1500 hour lubrication intervals, apply a coat of thoroughly mixed 50 percent TKS7470 oil and 50 percent TKS7471 grease.

3.04 Automatic On-Off Control Levers

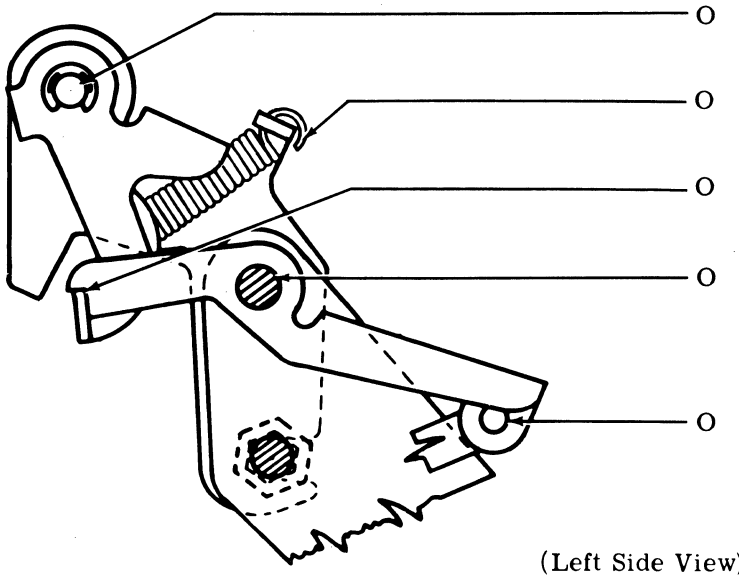


(Left Side View)

3.05 Automatic On-Off Control Mechanisms



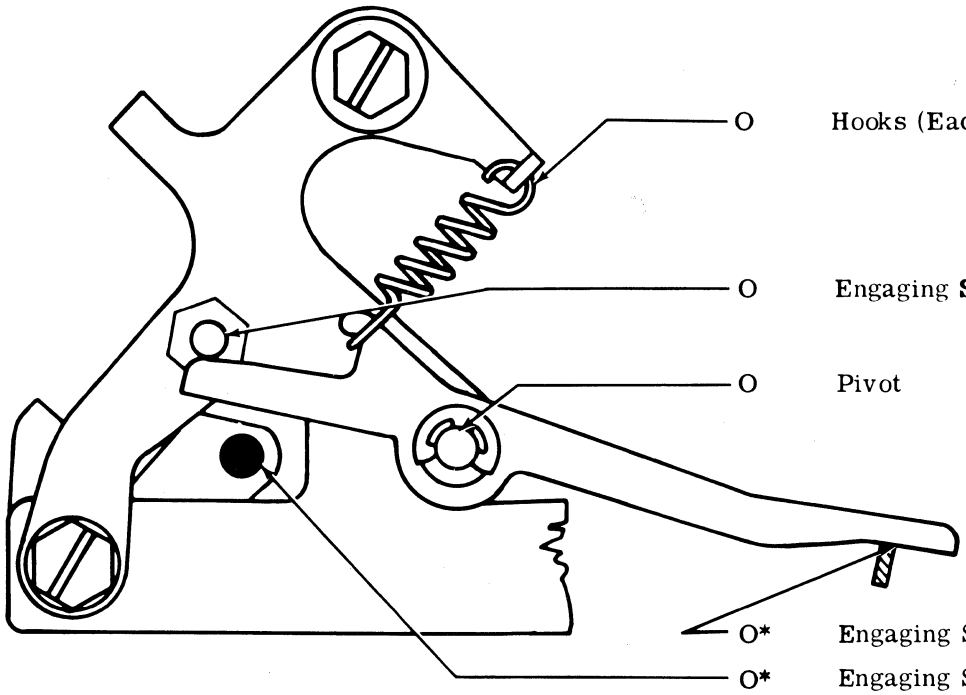
3.06 Lock "ON" Mechanism



(Left Side View)

O	Pivot (2)	Lock Bail
O	Hook (Each End)	Lock Bail Spring
O	Engaging Surfaces	Bail and Lever
O	Pivot (2)	Lever
O	Pivot	Link

3.07 Punch Interlock Mechanism

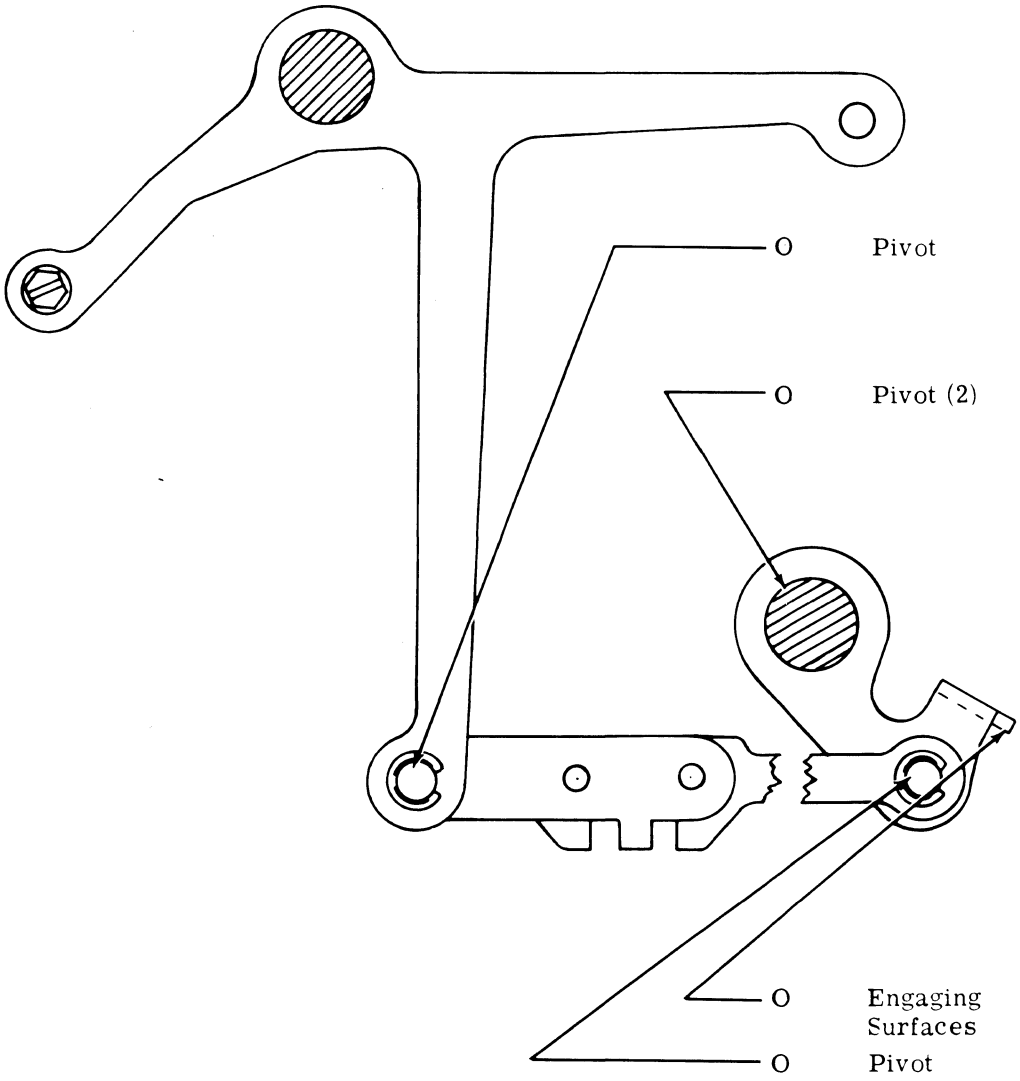


(Right Side View)

O	Hooks (Each End)	Interlock Spring
O	Engaging Surfaces	Lever and Post
O	Pivot	Lever
O*	Engaging Surfaces	Levers
O*	Engaging Surfaces	Bail and Lever

*At 1500 hour lubrication intervals, apply a coat of thoroughly mixed 50 percent TKS7470 oil and 50 percent TKS7471 grease.

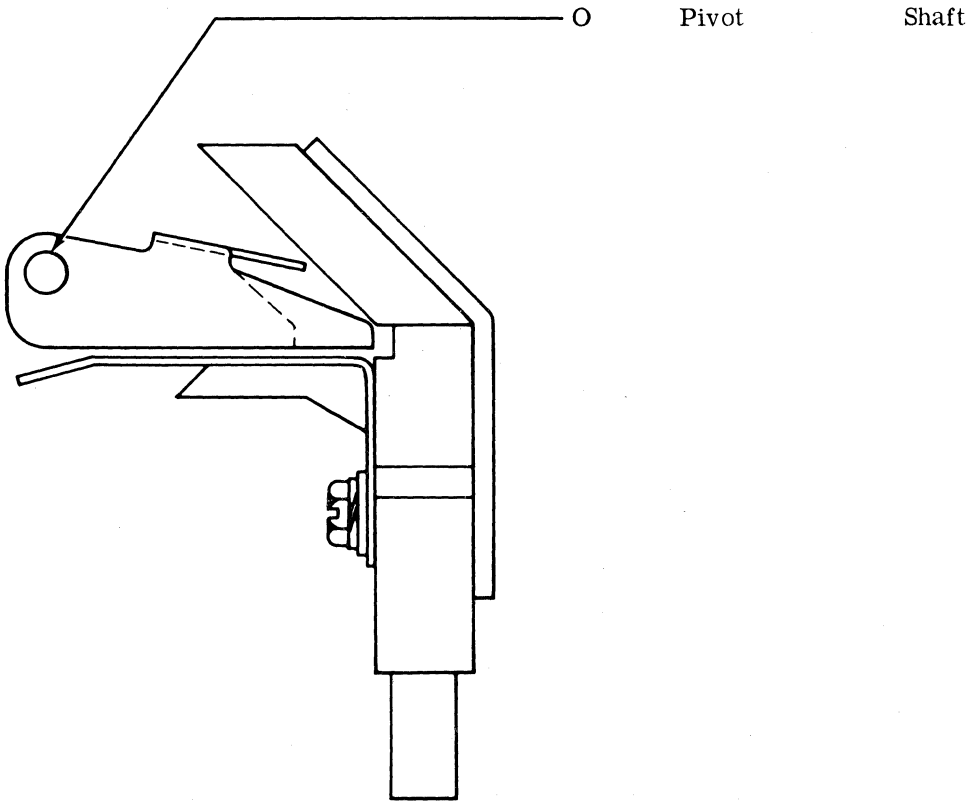
3.08 Sense Suppression Mechanism



(Right Side View)

4. VARIABLE FEATURE

4.01 Tape Guide for Folded Tape



(Left Side View)