33 TAPE READER

LUBRICATION

CONTENTS

1. GENERAL

1.01 This section provides lubrication requirements for the 33 tape reader. It is reissued to add new lubrication interval requirements for the tape reader. 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 reader, but avoid over lubrication that might permit the lubricant to drip or be thrown onto adjacent parts. Saturate all felt washers.

1.04 Initial lubrication of the tape reader should be completed just prior to placing it into service. The lubrication intervals for the tape reader 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.
G	Apply thin coat of KS7471 grease.
L	Apply thin coat of Lubriplate 105 (2 oz tube TP108805).
O	Oil (KS7470 oil).

1.06 References to left, right, front, or rear, etc, consider the tape reader to be viewed from a position where the feed wheel faces up and the lid latch is to the viewer's right. Orientation references in the clutch trip area consider the armature extension to be facing up with the contact bracket pry points located to the viewer's right.

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. A SOFT CLOTH DAMPENED WITH SOAP OR MILD DETERGENT MAY BE USED. RINSE WITH A SOFT, DAMP CLOTH AND BUFF WITH A SOFT, DRY CLOTH.

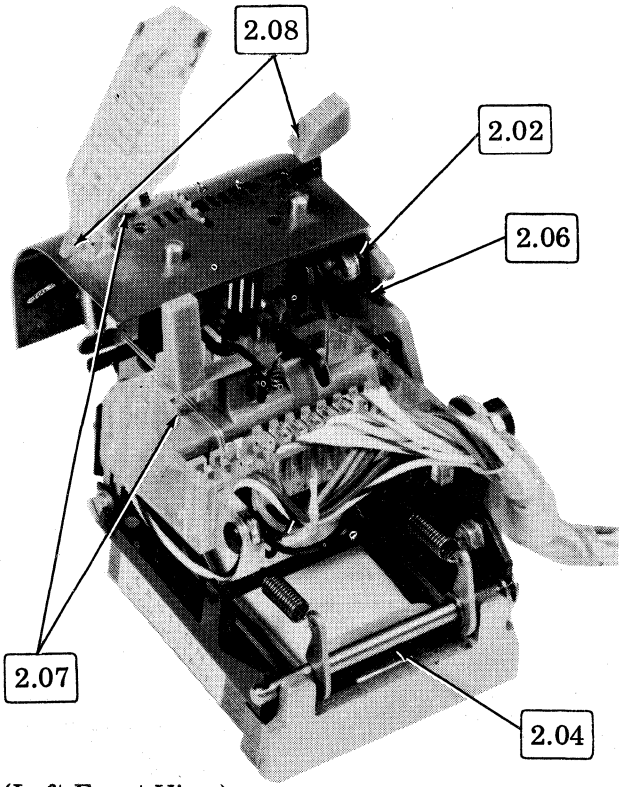
1.07 Materials needed for lubrication are listed in Section 570-005-800TC.

1.08 For disassembly and reassembly information, refer to Section 574-124-702TC.

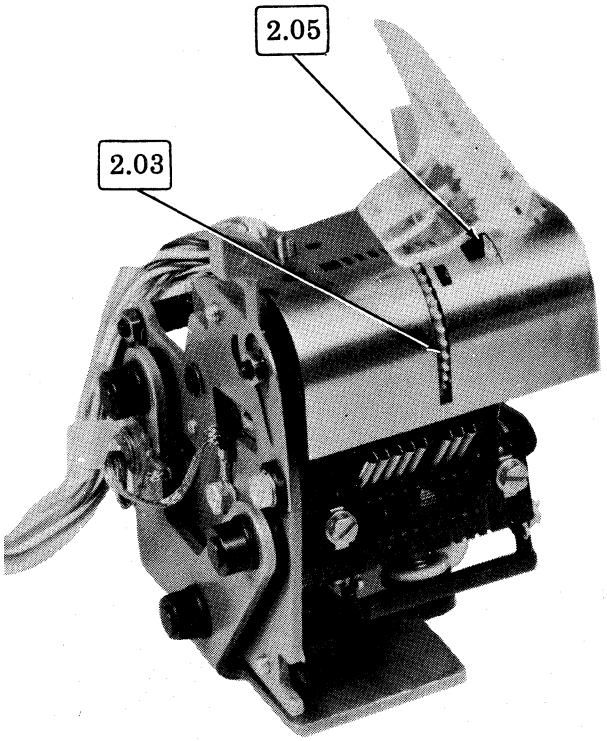
CAUTION: REMOVE ALL ELECTRICAL POWER FROM UNIT BEFORE LUBRICATING OR DISASSEMBLING COMPONENTS.

2. BASIC UNIT

2.01 Tape Reader

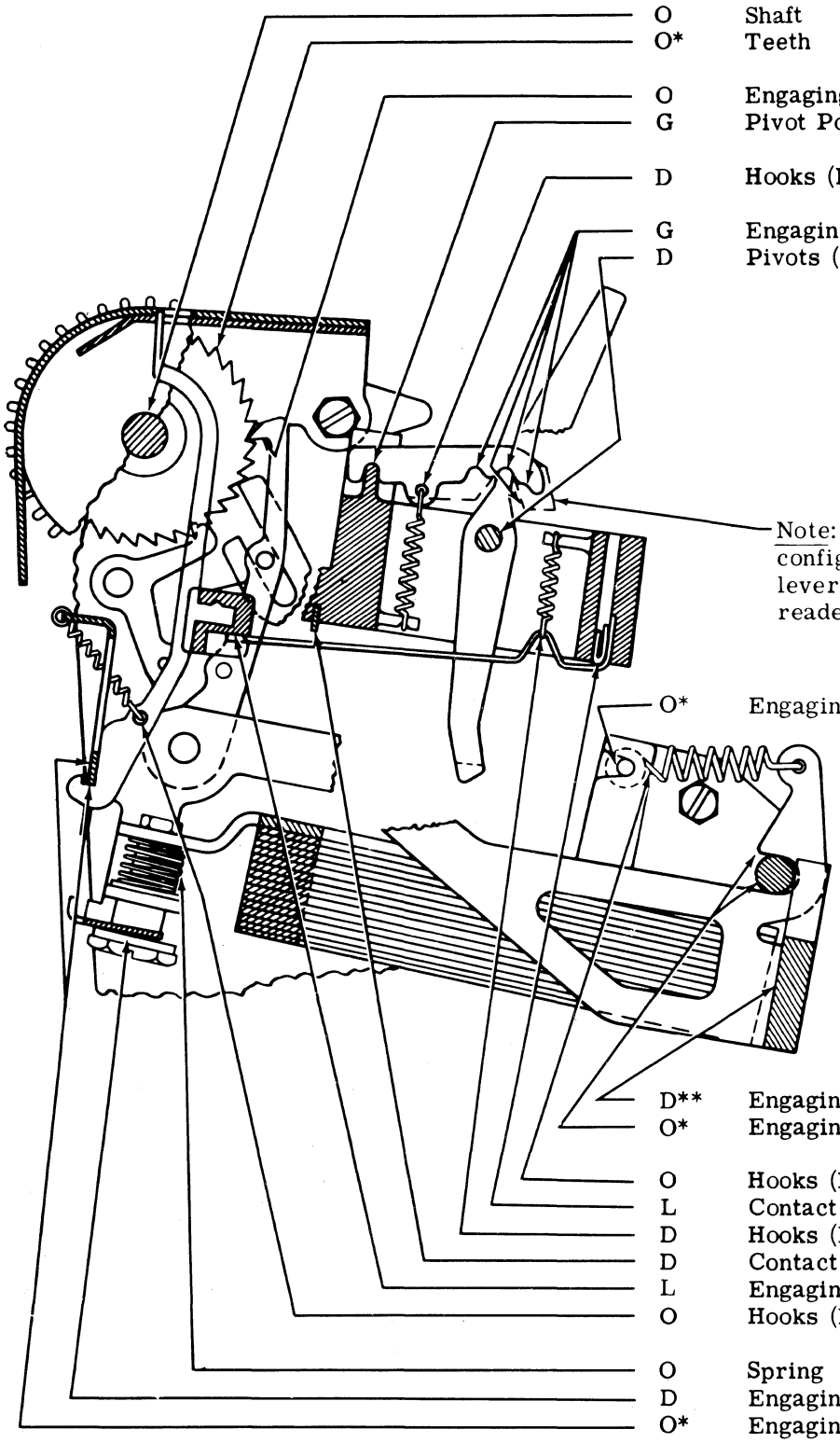


(Left Front View)



(Right Rear View)

2.02 Tape Reader Mechanism



O	Shaft	Feed Wheel
O*	Teeth	Feed Wheel Ratchet
O	Engaging Surface	Feed Pawl
G	Pivot Point	Control Detent Lever
D	Hooks (Each End)	Detent Lever Spring
G	Engaging Surface	Detent Lever
D	Pivots (2)	Control Detent Lever Shaft

Note: Dashed line (---) indicates configuration of control detent lever for readers with automatic reader control.

O*	Engaging Surfaces (2)	Spring Post and Magnet Brackets

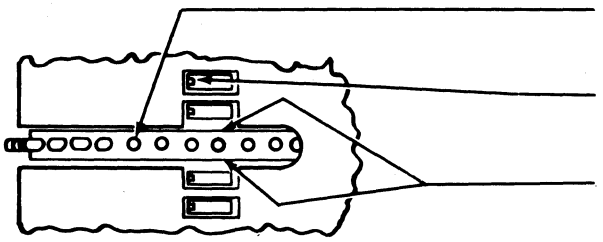
(Left Side View)

D**	Engaging Surface	Armature
O*	Engaging Surface	Armature Pivot Shaft
O	Hooks (Each End)	Armature Springs
L	Contact Pivot	Contact Wires
D	Hooks (Each End)	Contact Spring
D	Contact Surface	Contact Wires
L	Engaging Surface	Insulator
O	Hooks (Each End)	Sensing Pin Springs
O	Spring	Upstop Spring
D	Engaging Surface	Buffer
O*	Engaging Surface	Sensing Pins

*At 1500 hour lubrication intervals, apply with a coat of thoroughly mixed 50 percent KS7470 oil and 50 percent KS7471 grease.

**Some oil leakage on this surface is permissible.

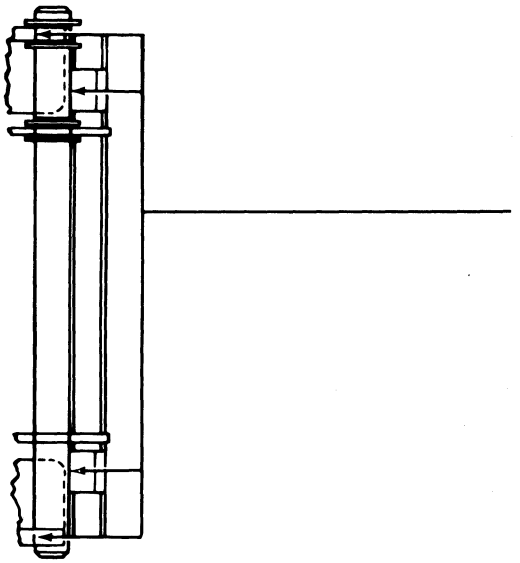
2.03 Feed Wheel



D	Pins	Feed Wheel
D	Sliding Surface	Sensing Pins
D	Sides	Feed Wheel

(Top View)

2.04 Armature Shaft

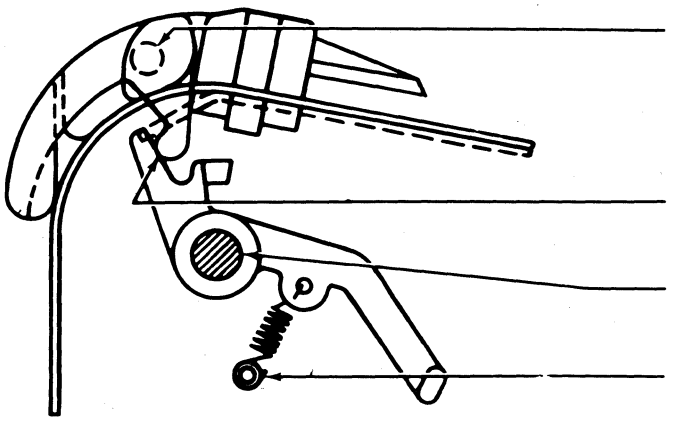


O*	Stops	Armature

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

(Top View)

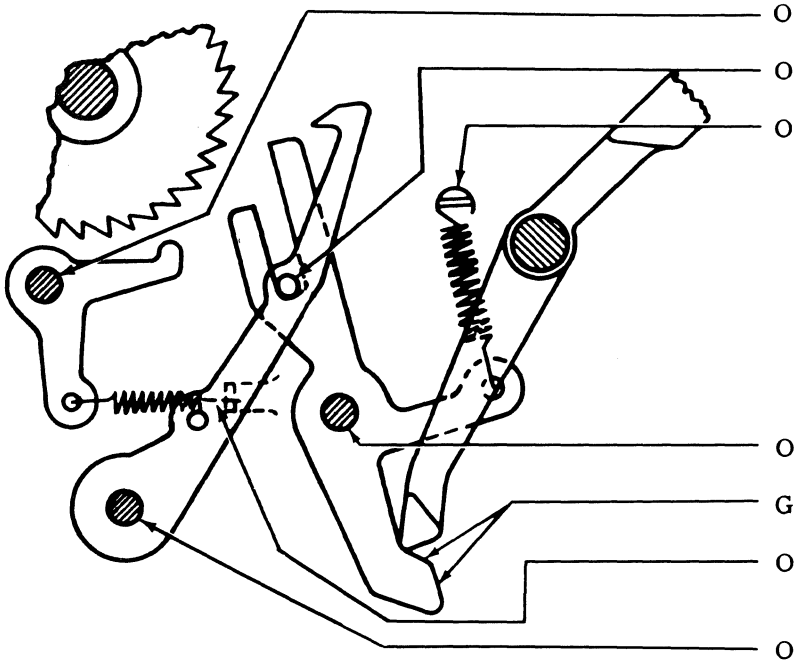
2.05 Tight Tape Mechanism



O	Pivots (2)	Tight Tape Bail
O	Engaging Surface	Tight Tape Bail Extension
O	Pivots (2)	Tight Tape Lever Shaft
O	Hooks (Each End)	Tight Tape Lever Spring

(Left Side View)

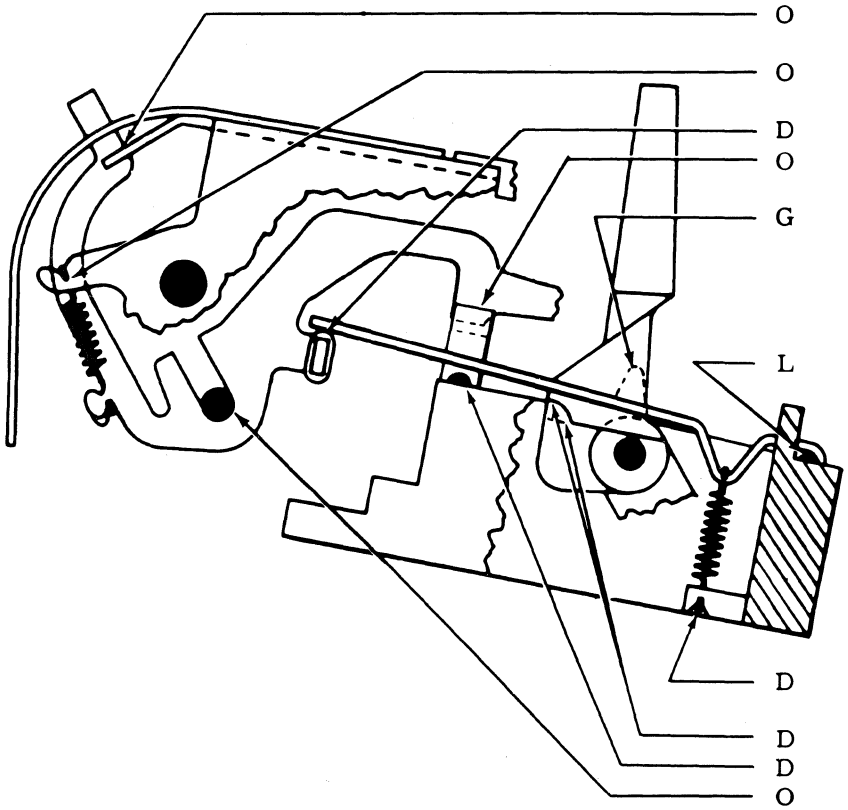
2.06 Feed Pawl Mechanism



O	Pivot	Detent Lever Shaft
O	Pivot	Feed Pawl Stud
O	Hooks (Each End)	Blocking Pawl Spring
O	Pivot	Blocking Pawl
G	Engaging Surface	Blocking Pawl
O	Hooks (Each End)	Detent Lever Spring
O	Pivot	Feed Pawl

(Left Side View)

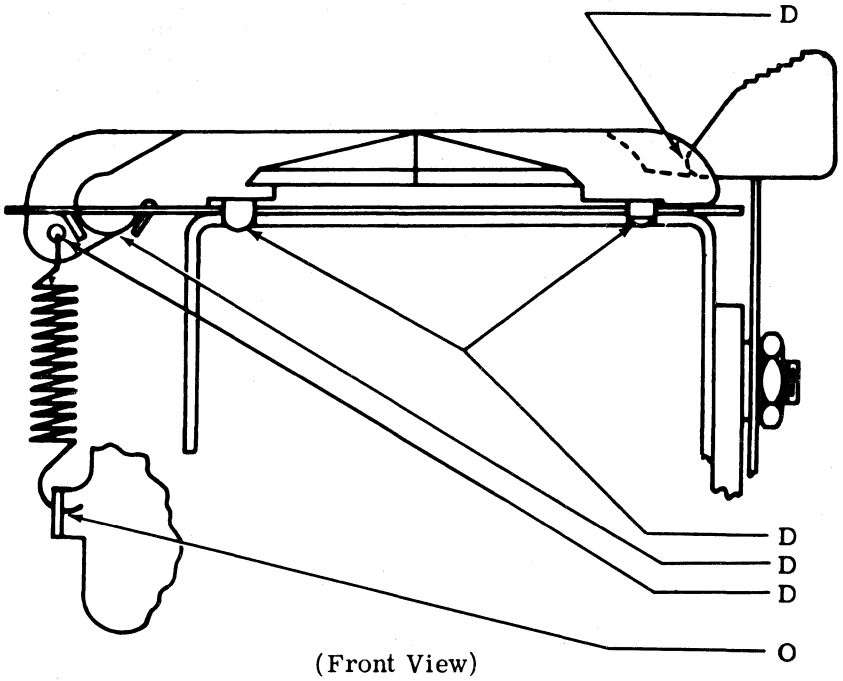
2.07 Control Mechanism



O	Sliding Surface	Tape-Out Pin Guide
O	Hooks (Each End)	Tape-Out Pin Spring
D	Engaging Surface	Insulator
O	Sliding Surface	Tape-Out Lever Guide
G	Camming Surface	Tape-Out Lever Cam
L	Pivot	Contact Wire
D	Hooks (Each End)	Contact Wire Springs
D	Camming Surface	Control Lever
D	Contact Surface	Terminal
O	Pivot	Tape-Out Lever

(Left Side View)

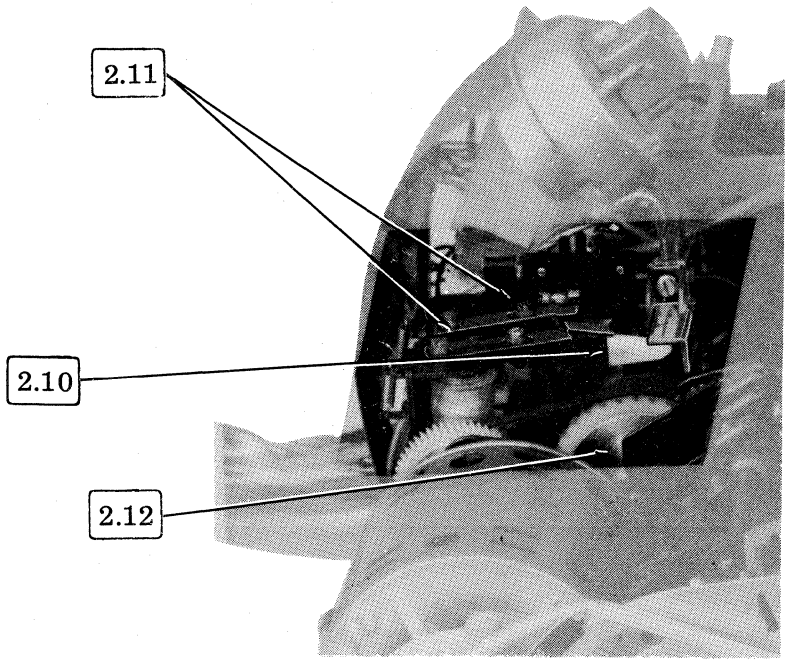
2.08 Tape Lid Mechanism



D	Engaging Surface	Lid Latch
D	Projections (2)	Tape Lid
D	Pivot	Tape Lid
D	Hook	Tape Lid
		Spring
O	Hook	Tape Lid
		Spring

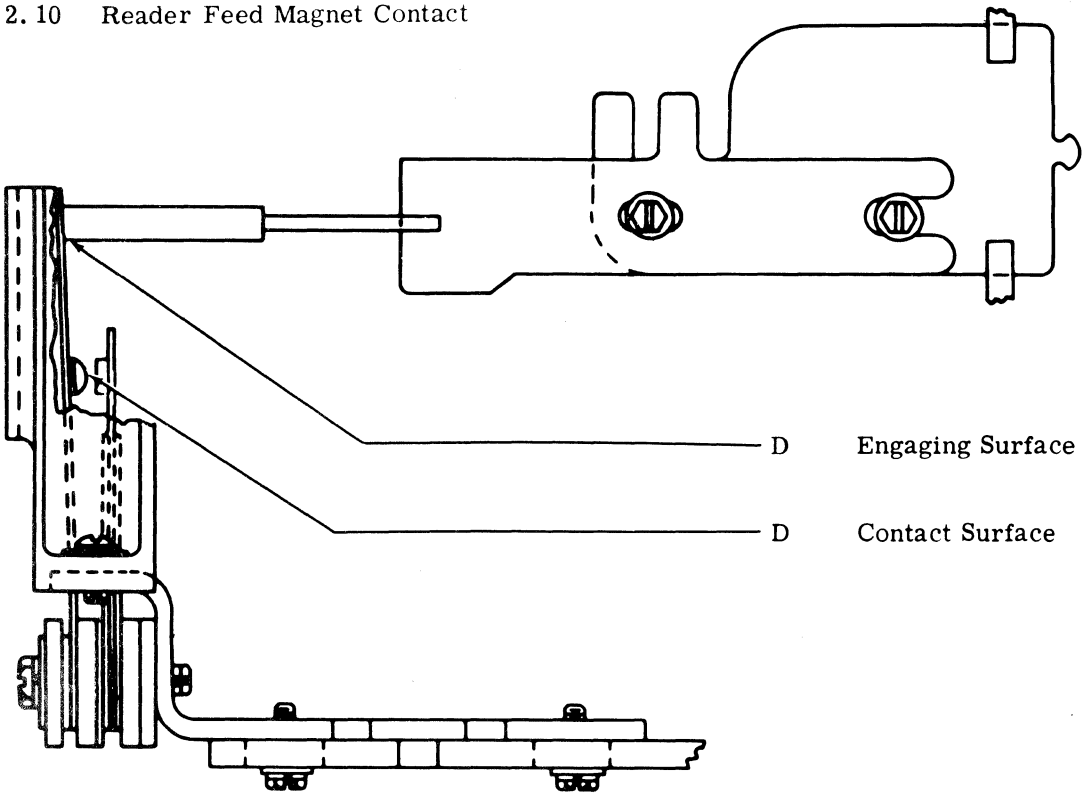
(Front View)

2.09 Clutch Trip Area



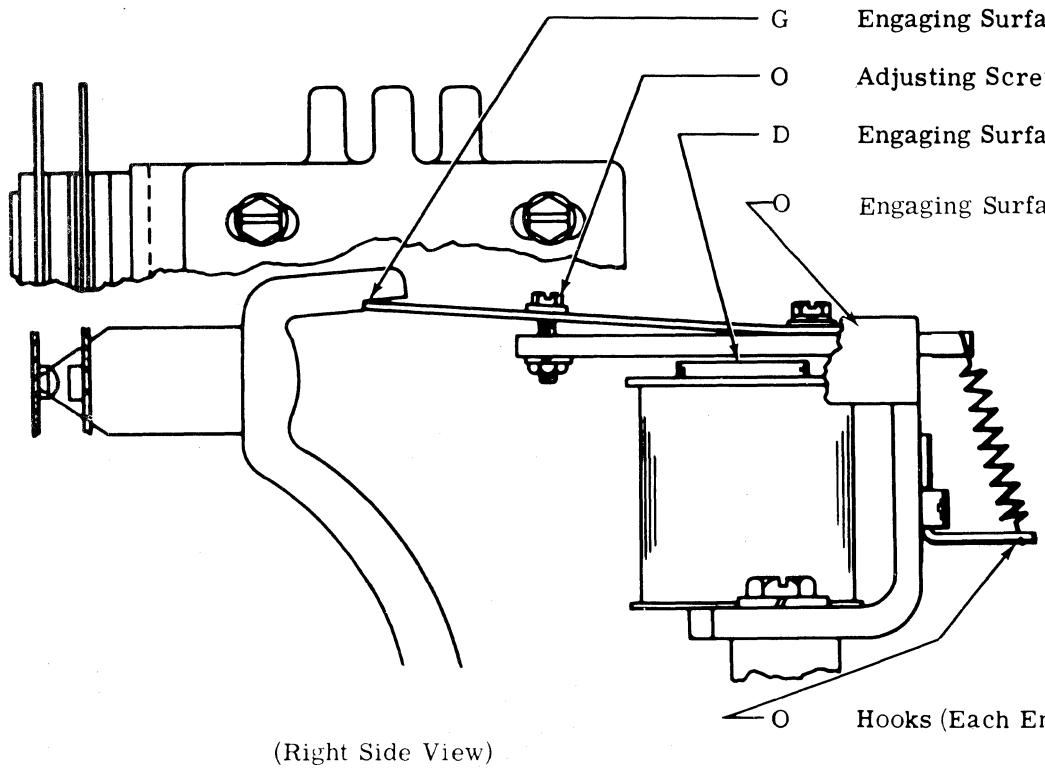
(Left Side View)

2.10 Reader Feed Magnet Contact



(Top View)

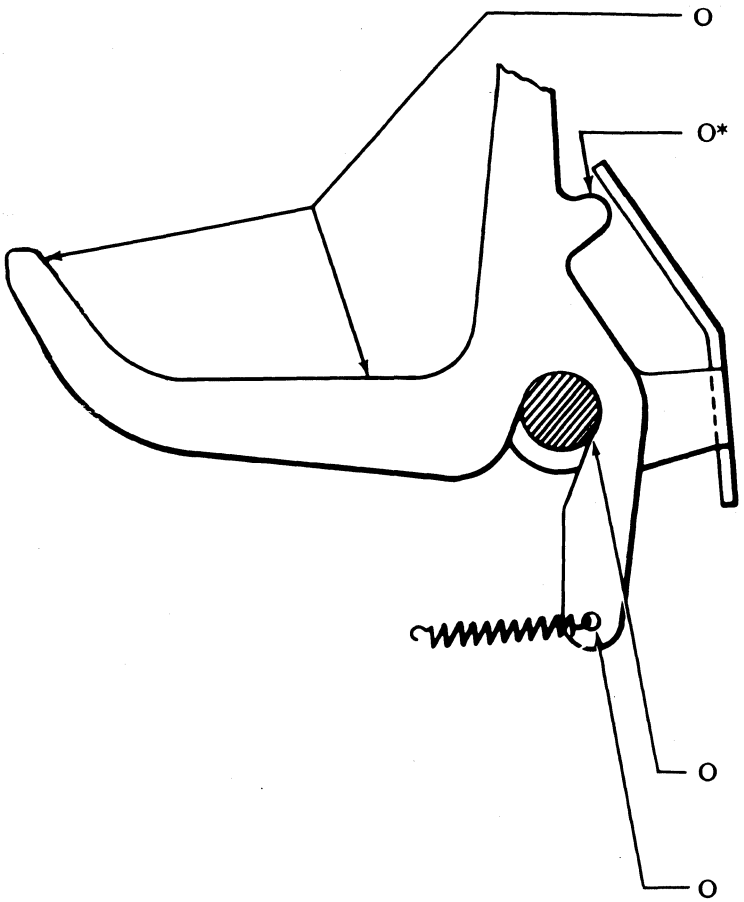
2.11 Distributor Clutch Trip Magnet



(Right Side View)

2.12 Reader Trip Lever

(Remove answer-back drum.)



O	Engaging Surface	Reader Trip Lever
O*	Engaging Surface	Reader Trip Lever
O	Pivot	Reader Trip Lever
O	Hooks (Each End)	Reader Trip Lever Spring

(Right Side View)

(Replace answer-back drum.)

*At 1500 hour lubrication intervals, apply a coat of thoroughly mixed 50 percent KS7470 oil and 50 percent KS7471 grease.