37 TYPING REPERFORATOR

LUBRICATION

CONTENTS PAGE

1. GENERAL

1.01 This section provides lubrication procedures for the Model 37 typing reperforator. Because this issue is a general revision, marginal arrows showing added or changed information have been omitted.

1.02 Photographs are used to show the general areas of lubrication. The paragraph numbers shown on the figures refer to specific lubrication areas. Each paragraph consists of one or more line drawings and descriptive text that cover precise lubrication points.

1.03 References made to left or right, front or rear, and top or bottom apply to the typing reperforator in a normal operating position with the selector mechanism on the right and the function mechanism on the left.

1.04 Lubricate the typing reperforator before placing it in service and just prior to putting it in storage.

1.05 The unit should be relubricated after 200 hours of operation or four weeks, whichever comes first. Thereafter, lubricate all

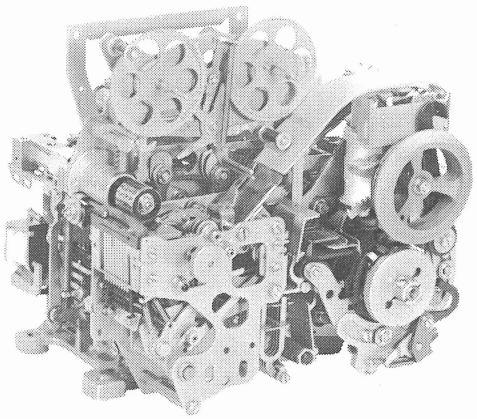


Figure 1 - 37 Typing Reperforator

Prepared for American Telephone and Telegraph Company by Teletype Corporation

mechanisms of the reperforator according to the following schedule:

Operating Speed	Lubrication Interval
100 wpm	2000 hours or 6 months*
150 wpm	1500 hours or 6 months*

*Whichever occurs first.

CAUTION: DISCONNECT ALL AC POWER CORDS BEFORE PERFORMING ANY PROCEDURE.

1.06 The following list of symbols applies to the specific lubrication instructions given in each paragraph.

Symbol	Meaning
O	Oil with KS7470 oil as instructed.
G	Apply KS7471 grease.
D	Apply no lubricants. Keep dry.
GO	Apply a thin coat of a mixture containing equal parts of grease and oil.

Note: In general, the symbols indicate the type of lubricant. Quantity of lubricant is normally given with the text associated with specific 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.

1.07 Oil should be applied by means of an oiler to points where it will adhere or where pressure is nominal. In lubricating small parts, only a single drop of oil should be applied so that the oil remains on the part and does not run off.

Note: Care should be exercised to prevent lubricants from getting between armature and pole faces or between electrical contact points.

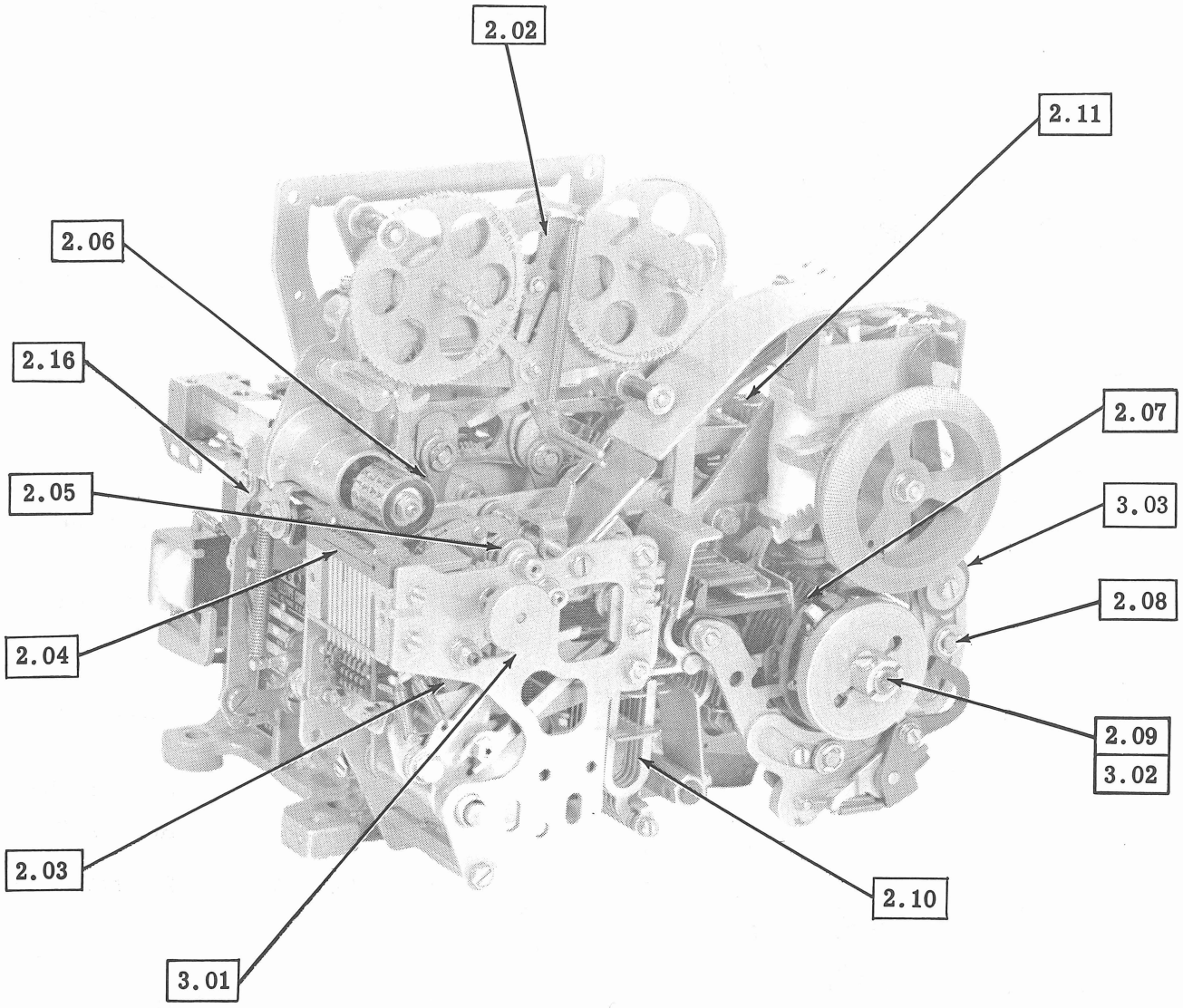
1.08 In general, oil should be used in such locations as hollow shafts, wicks, and in most locations where parts rub, slide, or move with respect to each other. Grease should be used on gear teeth and points of heavy pressure. Capillary action and vaporization tend to keep a film of oil on the mechanisms. This prevents rust and provides sufficient lubrication to many points.

1.09 Refer to Section 570-005-800 covering tools used and also a description of various lubricants used on the typing reperforator.

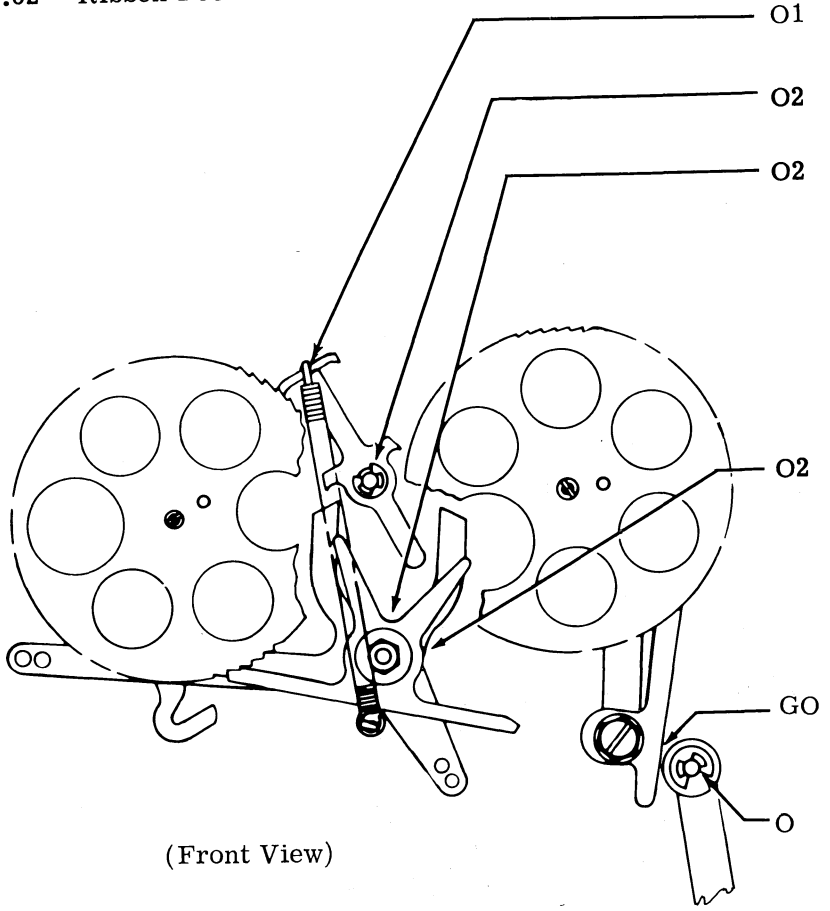
1.10 Protective pad TP124828 should be used to protect furniture and floor coverings from grease, oil, and dirt while lubricating the unit.

2. BASIC UNIT

2.01 Typing Reperforator (Left Front View)

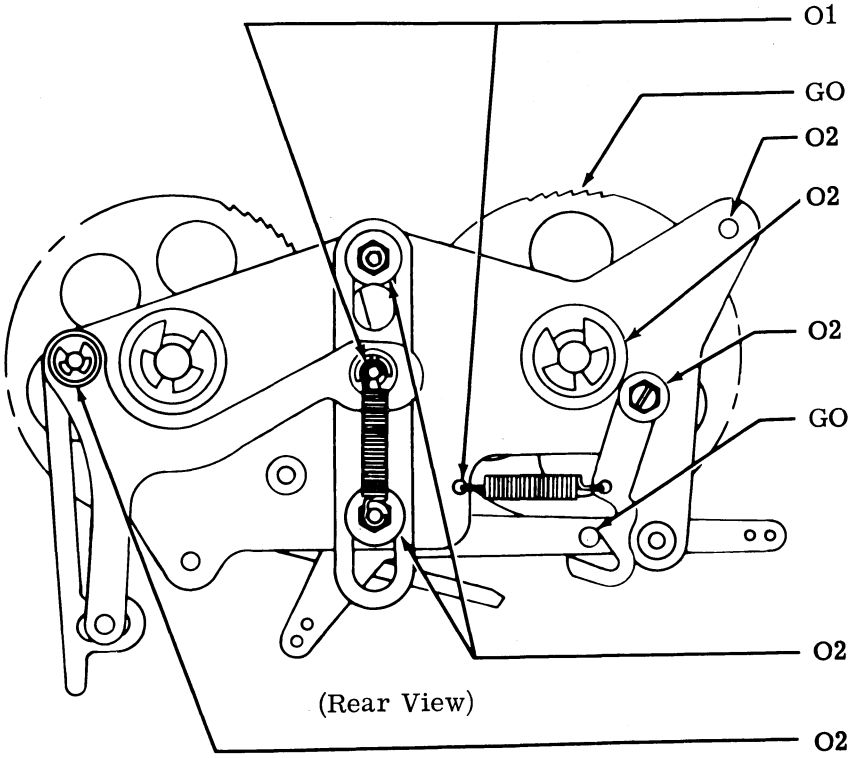


2.02 Ribbon Feed Mechanism



(Front View)

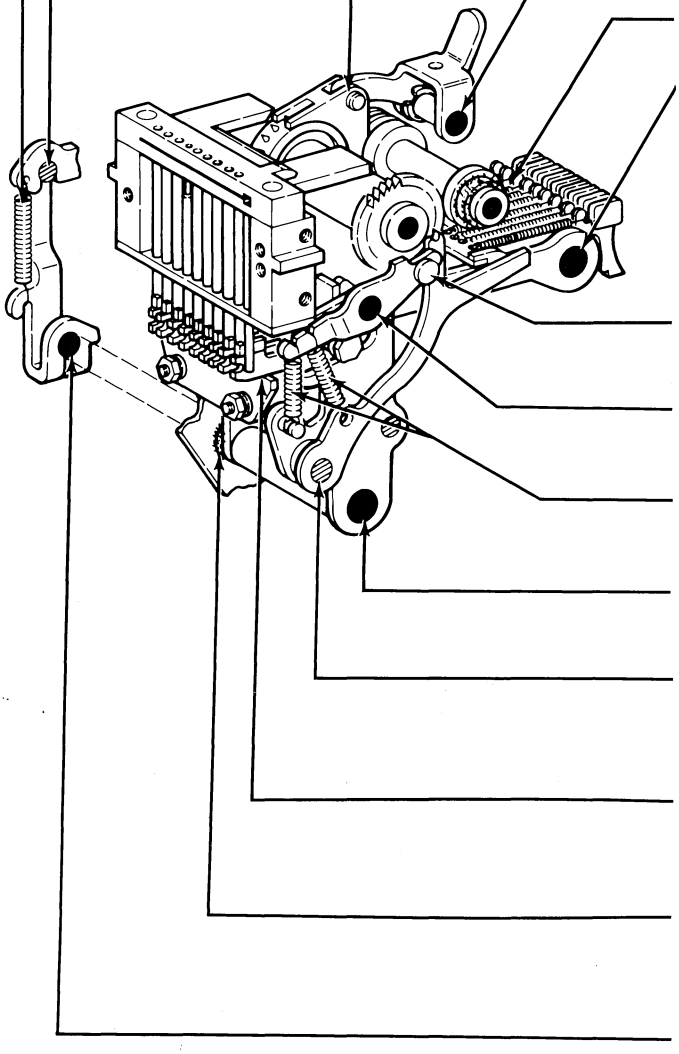
O1	Hooks - Each End	Spring
O2	Pivot Point	Feed Pawl
O2	Pivot	Check Pawl
O2	Pivot Points (2)	Reversing Arm
GO	Contacting Surface	Drive Arm Adjustable Extension
O	Saturate Felt Oiler	Drive Arm Roller



(Rear View)

O1	Hooks - Each End	Springs (2)
GO	Teeth	Ratchet Wheel (2)
O2	Shaft	Rollers (2)
O2	Shaft, Felt Oilers	Ratchet Wheel (2)
O2	Pivot	Detent
GO	Contacting Surfaces	Detent
O2	Upper and Lower Bushing	Slide Lever
O2	Pivot	Drive Arm

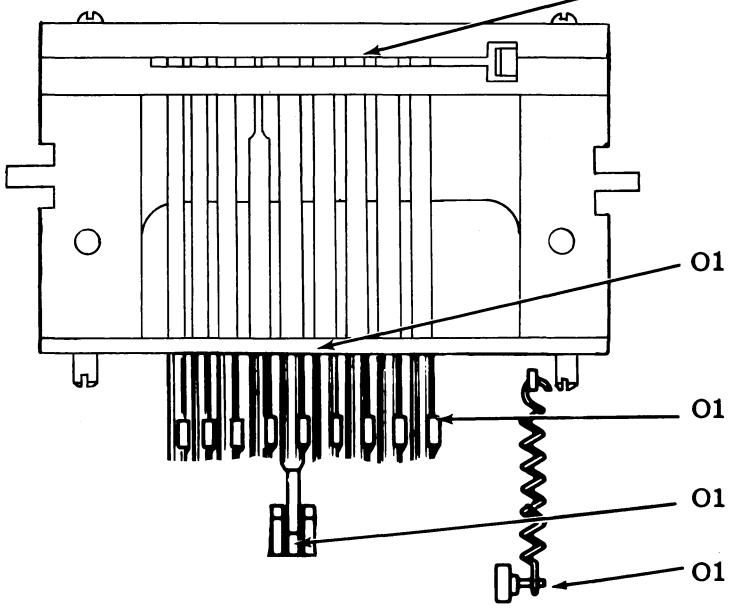
2.03 Perforator Mechanism



O	Saturate Felt Wick	Drive Link Spring
O1	Pivot Points (2)	Punch Drive Link
O1	Pivot Point	Tape Shoe
O1	Pivot Points (2)	Tape Shoe Arm
O1	Hooks - Each End	Springs (9)
O1	Pivot Points (9)	Punch Slides
O2	Roller	Detent Lever
O1	Pivot Point	Detent Lever
O1	Hooks - Each End	Springs (2)
O	Saturate Felt Oiler	Pivot Point
O1	Pivot Points (2)	Feed Pawl
O1	Contact Surface (9)	Punch Slides
O	Saturate Felt Oiler	Camming Bail
O1	Pivot Points (2)	Rocker Bail

(Left Front View)

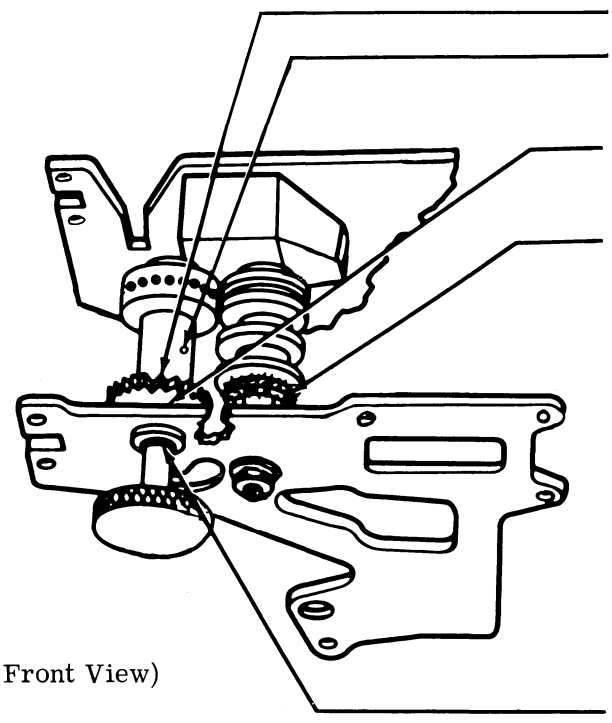
2.04 Punch Mechanism



O1	Sliding Surface (9) (Upper Guide)	Punch Pin
O1	Sliding Surface (9) (Lower Guide)	Punch Pin
O1	Sliding Surface (9)	Punch Pin
O1	Sliding Surface (9)	Punch Slide Guide
O1	Hooks - Each End	Spring

(Left Side View)

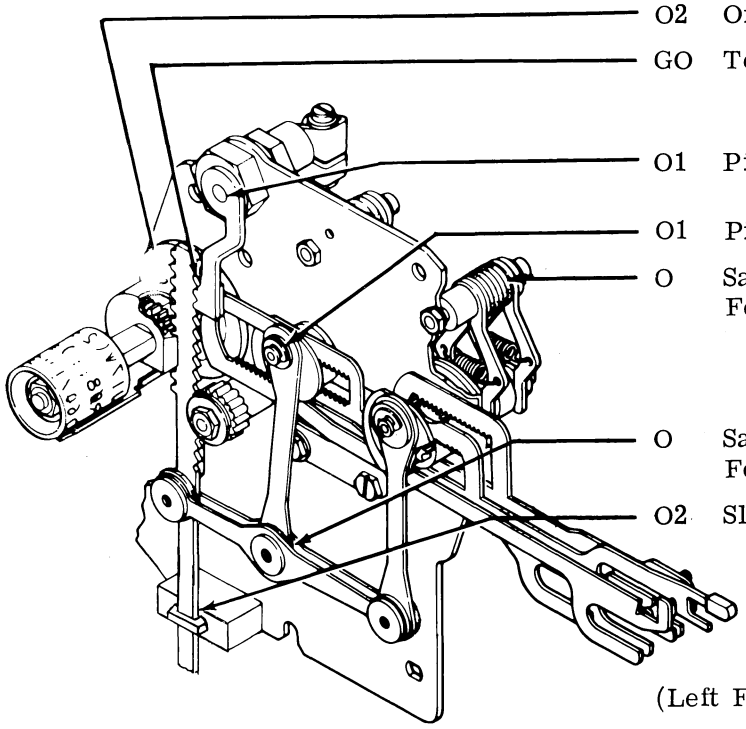
2.05 Feed Mechanism



GO	Ratchet Teeth	Feed Wheel
O1	Oil Hole	Feed Wheel
O	Saturate Felt Oiler (Pivot Point)	Feed Wheel
O	Saturate Felt Oiler (Pivot Point)	Die Wheel
O2	Pivot Points (2)	Handwheel Bearing

(Top Front View)

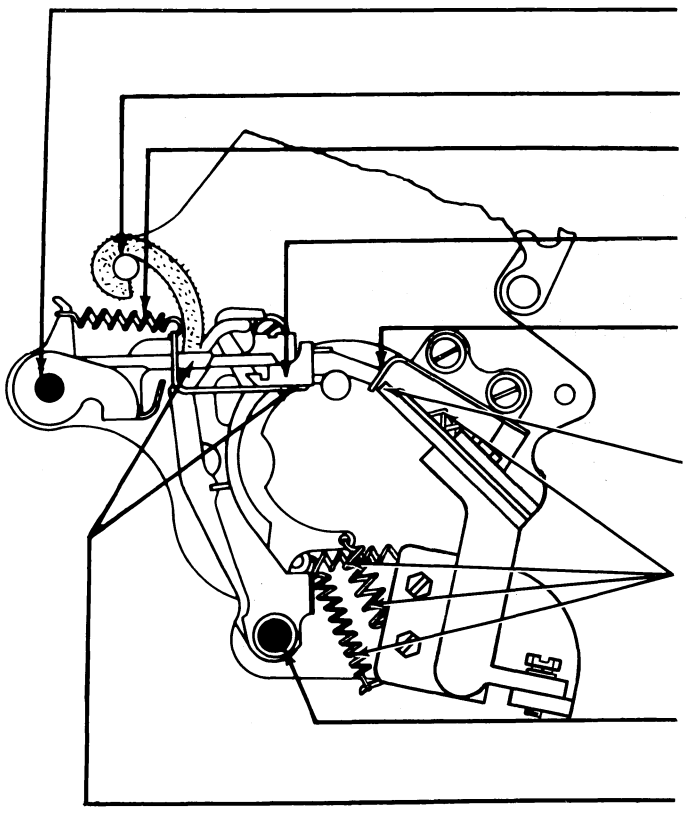
2.06 Rotary Positioning Mechanism



O2	Oil Hole	Typewheel Housing
GO	Teeth	Rotary Output Rack
O1	Pivot Point	Rotary Corrector Arm
O1	Pivot Points (2)	Connecting Racks
O	Saturate Felt Oilers	Detent Levers (8)
O	Saturate Felt Oilers	Cross Links (2)
O2	Slot	Rotary Output Rack

(Left Front View)

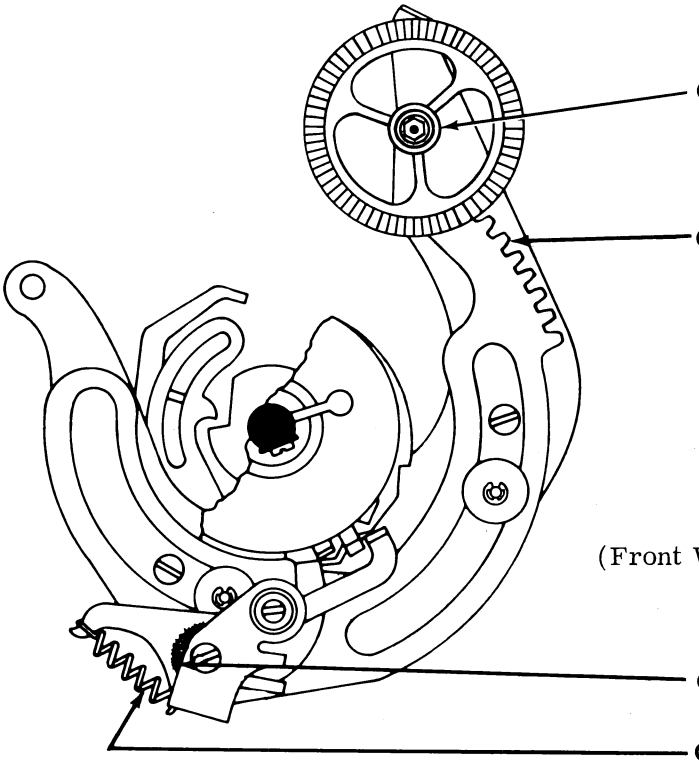
2.07 Selecting Mechanism



O2	Bearing Guide Slots (9)	Push Lever Guide
O	Saturate Felt Wick	Selector Wick
O1	Hooks-Each End	Springs (8)
O2	Engaging Surfaces	Push Levers (8)
O2	Guide Slot	Marking Locklever
O	Saturate Leather Wick	Lubricator
O1	Hooks-Each End	Springs (12)
O2	Bearing Guide Slots (12)	Selector Lever Guide
O2	Guide Slots	Selector and Push Lever Guide

(Left Front View)

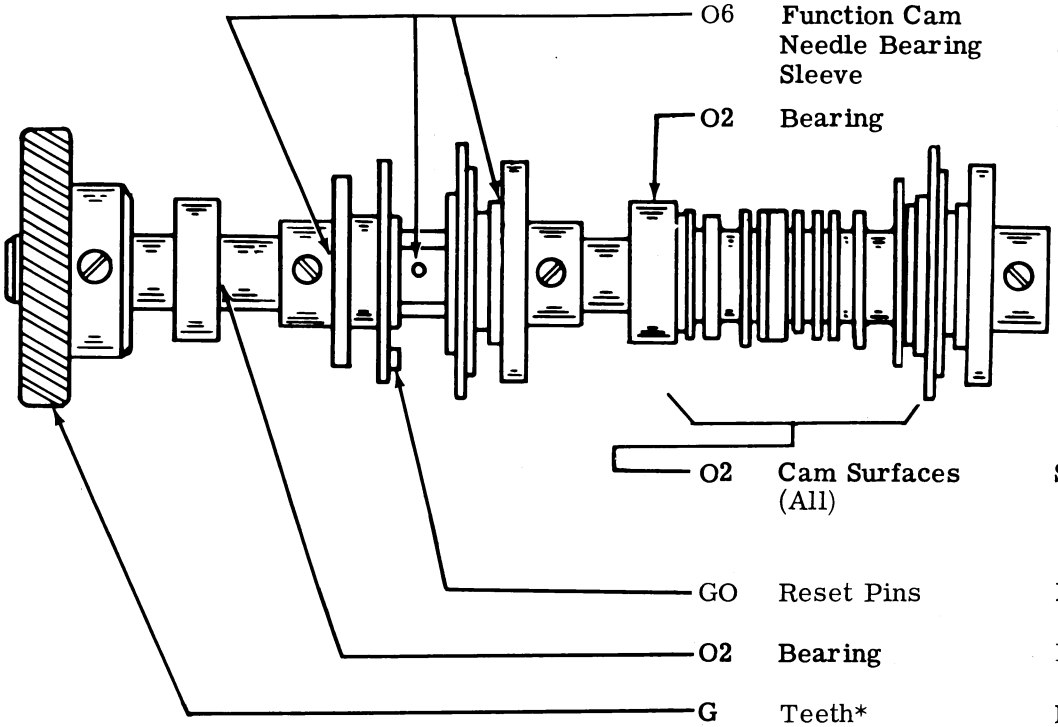
2.08 Range Finder Mechanism



G	Teeth	Knob
G	Teeth	Rack
O	Saturate Felt Oilers	Clutch Stop Arm
O1	Hooks - Each End	Spring

(Front View)

2.09 Main Shaft Mechanism

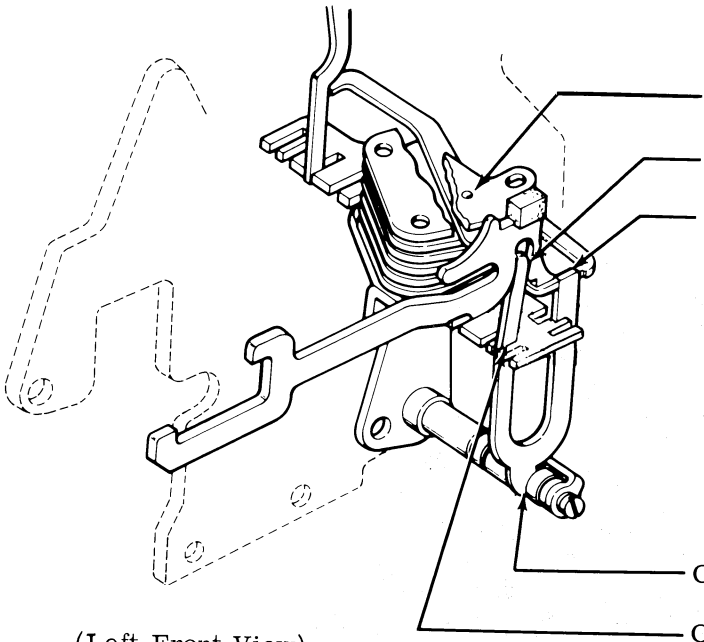


O6	Function Cam Needle Bearing Sleeve	Both Ends of Sleeve and Oil Hole in Center
O2	Bearing	Main Shaft
O2	Cam Surfaces (All)	Selector Cam
GO	Reset Pins	Function Cam
O2	Bearing	Main Shaft
G	Teeth*	Driven Gear

(Left Side View)

*Note: Do not lubricate when unit is equipped with a belt driven sprocket.

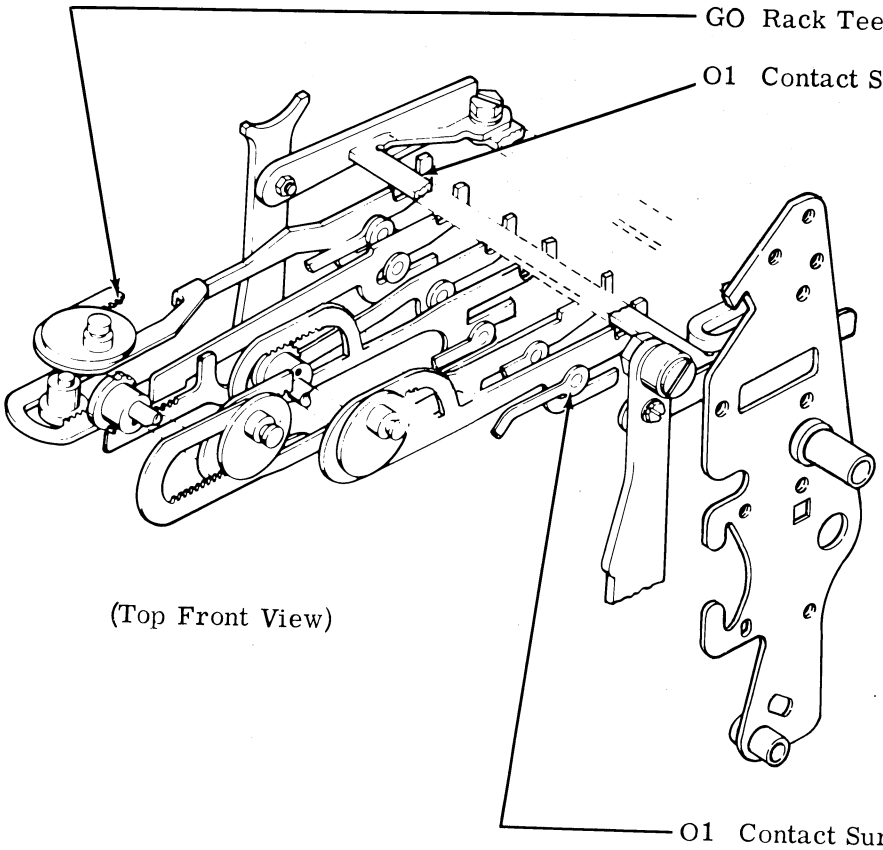
2.10 Transfer Mechanism



O1	Pivot Points (7)	Pulse Levers
O1	Contact Surfaces	Transfer Levers
O1	Contact Points	Pulse Levers
O1	Pivot Points	Transfer Levers
O1	Sliding Surfaces	Guide Bracket

(Left Front View)

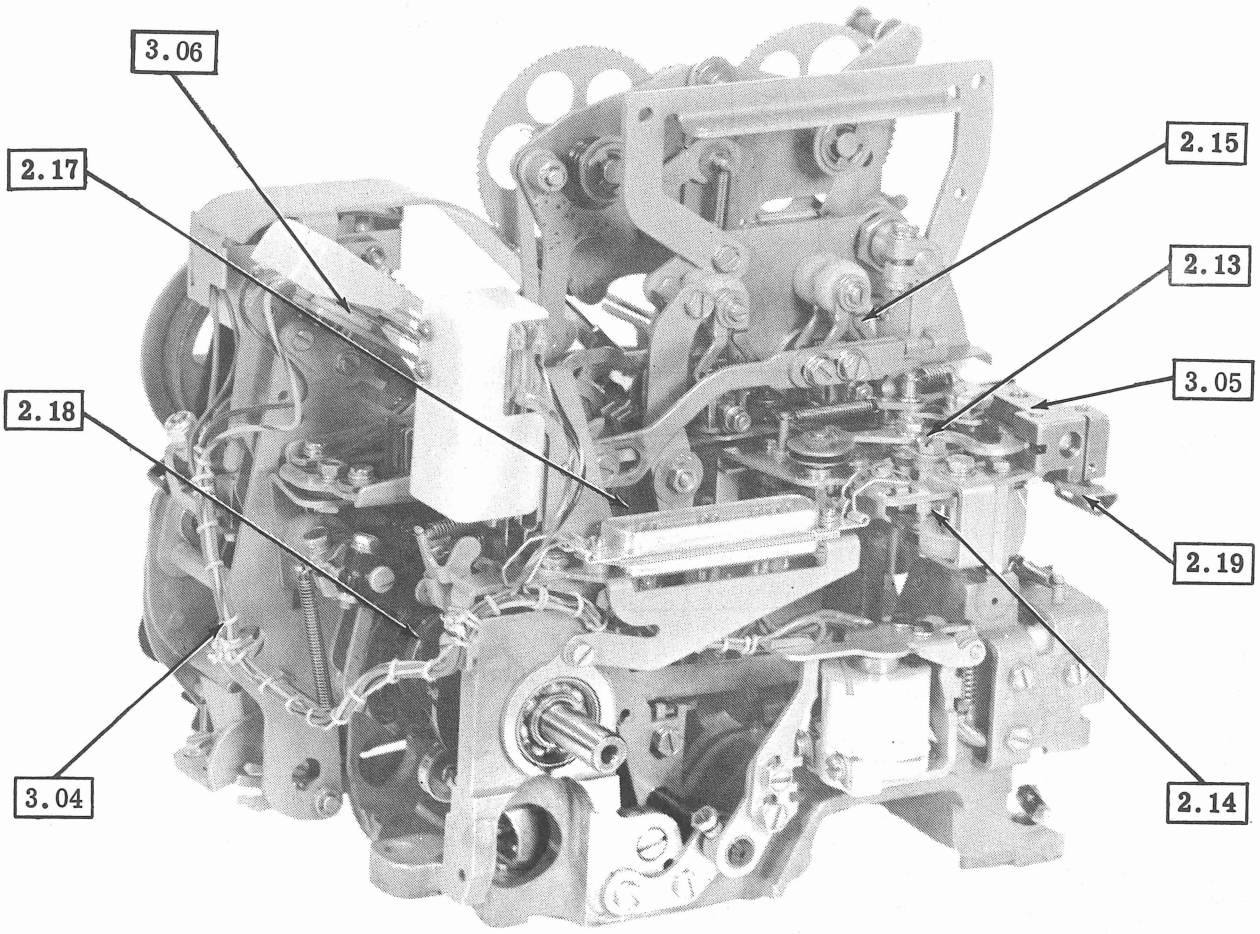
2.11 Pushbars



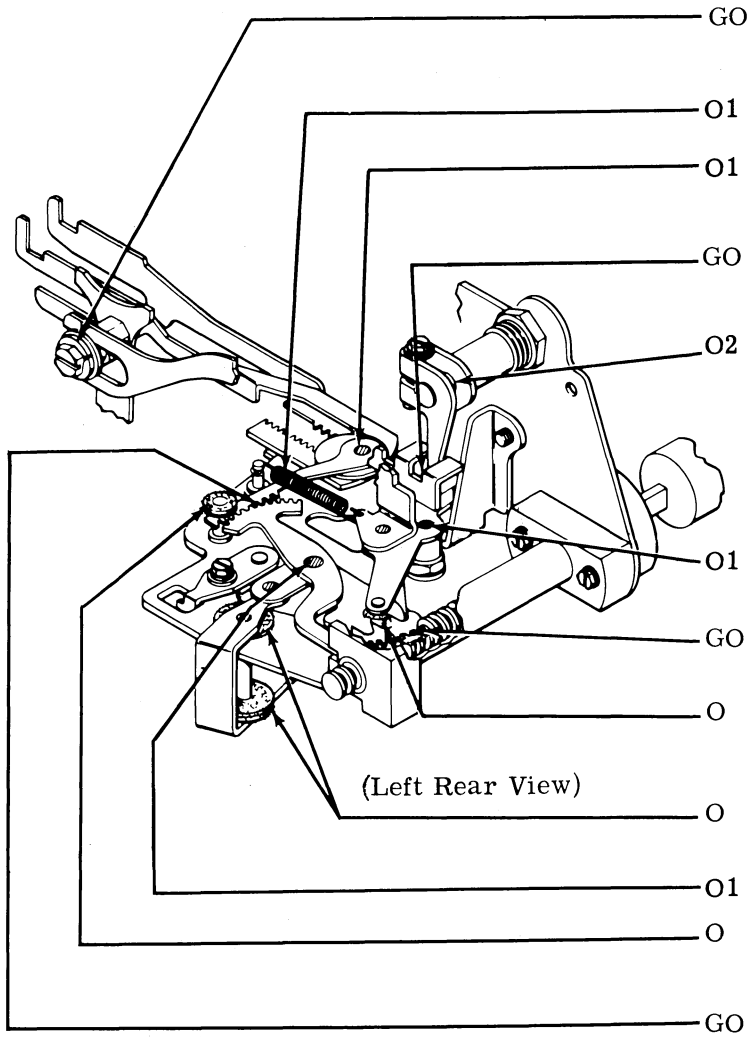
GO	Rack Teeth (7)	Pushbars
O1	Contact Surfaces (7)	Pushbars
O1	Contact Surfaces (7)	Pushbars

(Top Front View)

2.12 Typing Reperforator (Right Rear View)

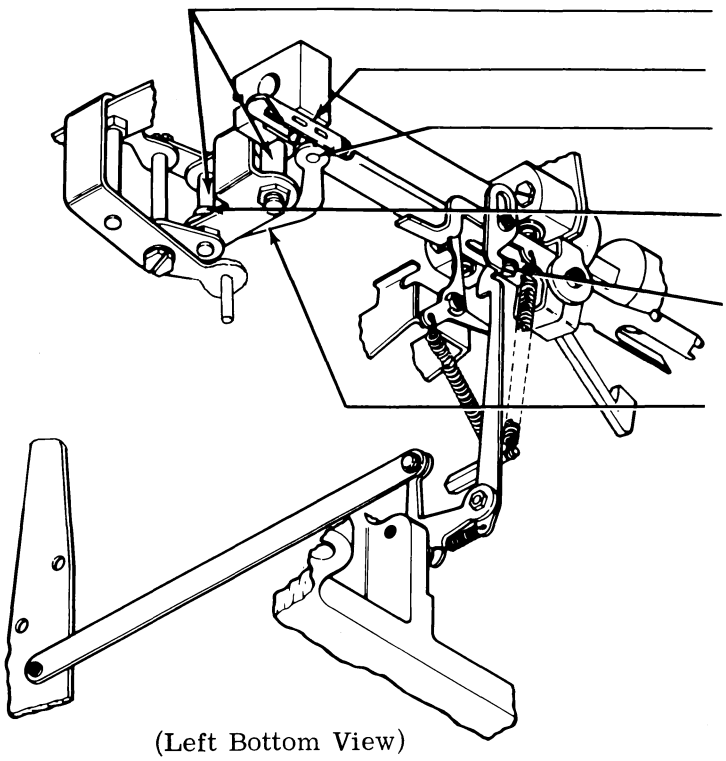


2.13 Axial Positioning Mechanism



GO	Sliding Guide Surfaces	Correcting Drive Link
O1	Hooks - Each End	Spring
O1	Pivot Point	Axial Output Rack
GO	Contact Points	Rotary Correcting Clamp
O2	Pivot Point	Rotary Correcting Lever Shaft
O1	Pivot Point	Axial Correcting Plate
GO	Teeth	Axial Sector Type-wheel Shaft
O	Saturate Felt Oiler	Axial Correcting Plate Roller
O	Saturate Felt Oiler (Pivot Point)	Oscillating Drive Bail
O1	Pivot Point	Axial Sector
O	Saturate Felt Oiler (Pivot Point)	Guide Roller
GO	Teeth	Axial Sector Axial Output Rack

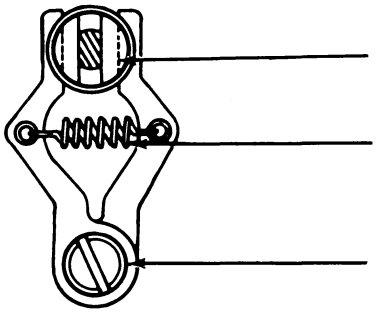
2.14 Axial Positioning Mechanism (continued)



O1	Pivot Point	Oscillating Bail
O1	Contact Surfaces	Ribbon Carrier
O1	Pivot Points	Ribbon Oscillating Lever
O	Saturate Felt Oiler	Ribbon Oscillating Lever
O1	Contact Surfaces	Ribbon Carrier
GO	Contact Point	Ribbon Oscillating Lever

(Left Bottom View)

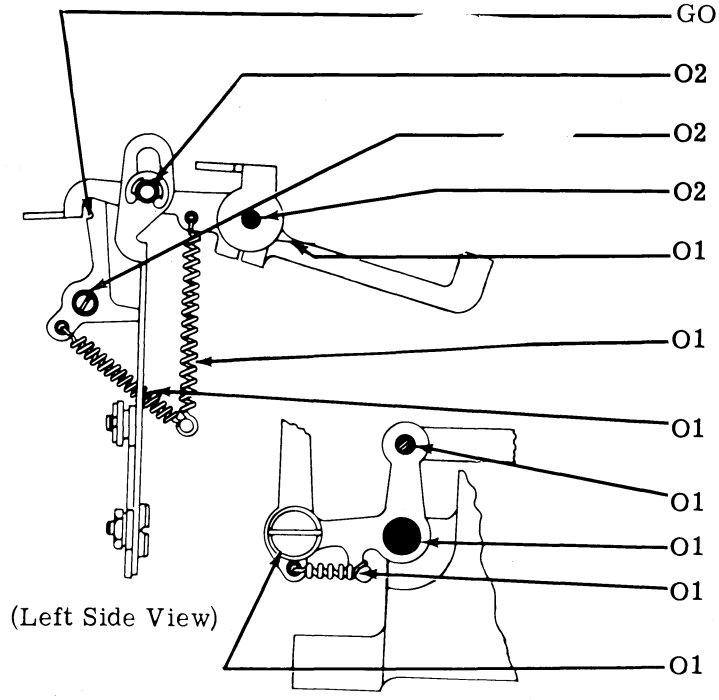
2.15 Detent Assemblies



O1	Detent Points	Detent Levers
O1	Hooks - Each End	Detent Lever Springs (4)
O	Saturate Felt Oilers	Detent Levers

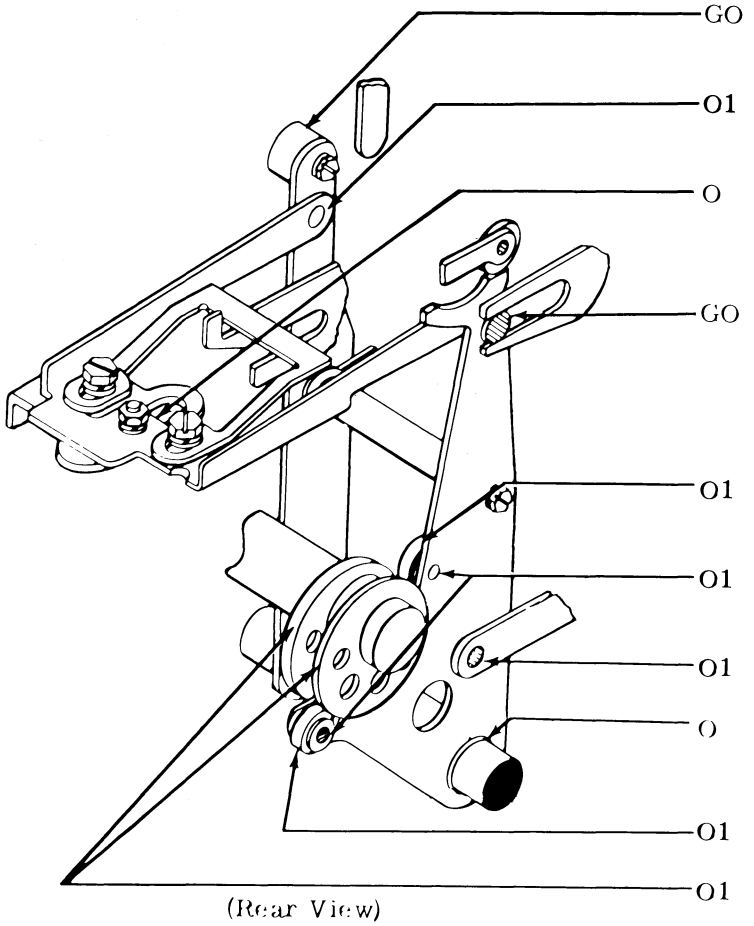
(Rear Top View)

2.16 Printing Mechanism



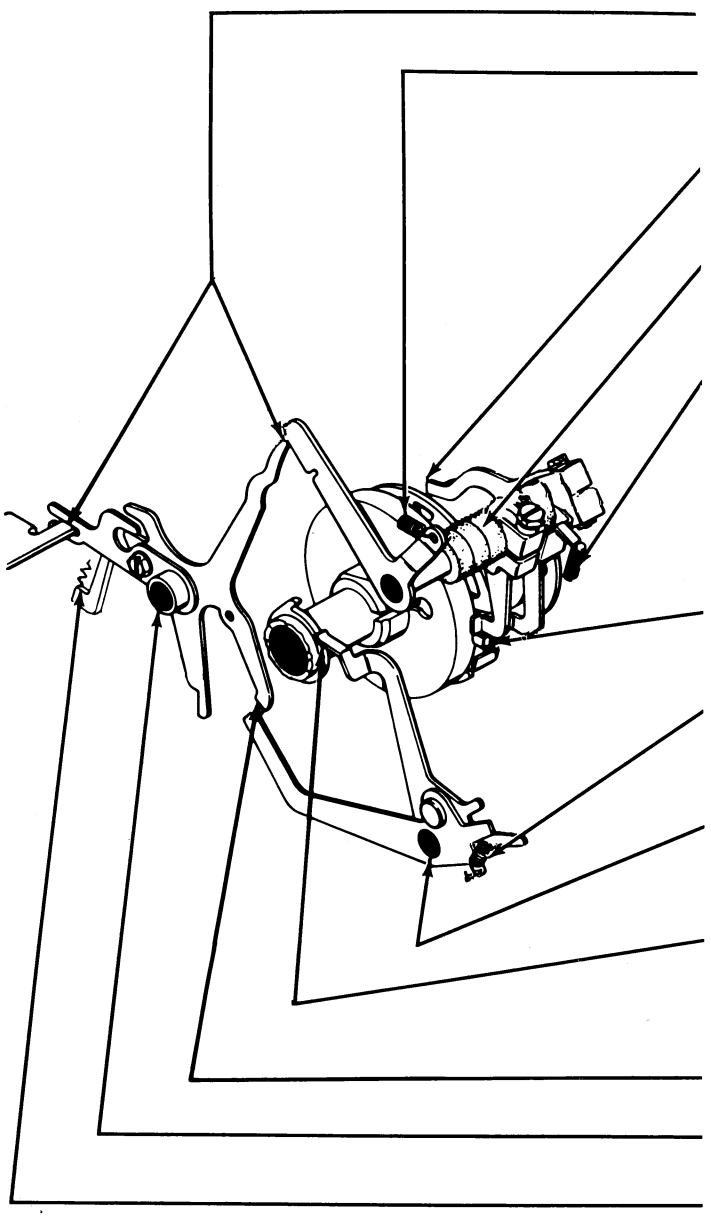
GO	Contact Surface	Printing Latch
O2	Sliding Surface	Printing Trip Link
O2	Pivot Point	Printing Latch
O2	Pivot Points	Print Hammer
O1	Hooks - Each End	Print Hammer Spring
O1	Hooks - Each End	Hammer Accelerator Spring
O1	Hooks - Each End	Printing Latch Spring
O1	Pivot Point	Printing Drive Link
O1	Pivot Point	Printing Pivot Arm
O1	Hooks - Each End	Printing Trip Link Spring
O1	Pivot Points (2)	Printing Pivot Arm

2.17 Rocker Bail Mechanism



GO	Contact Surface	Ribbon Feed Eccentric Stud
O1	Pivot Points	Pushbar Operating Blade
O	Saturate Felt Oiler (Sliding Surface)	Pushbar Operating Blade
GO	Pivot Point	Correcting Drive Link
O1	Roller Surface	Cam Follower Roller (Upper and Lower)
O1	Pivot Points	Cam Follower Rollers
O1	Pivot Point	Printing Drive Link
O	Saturate Felt Wick (Pivot Point)	Rocker Bail
O1	Roller Surface	Cam Follower Roller
O1	Contact Surface	Function Cam

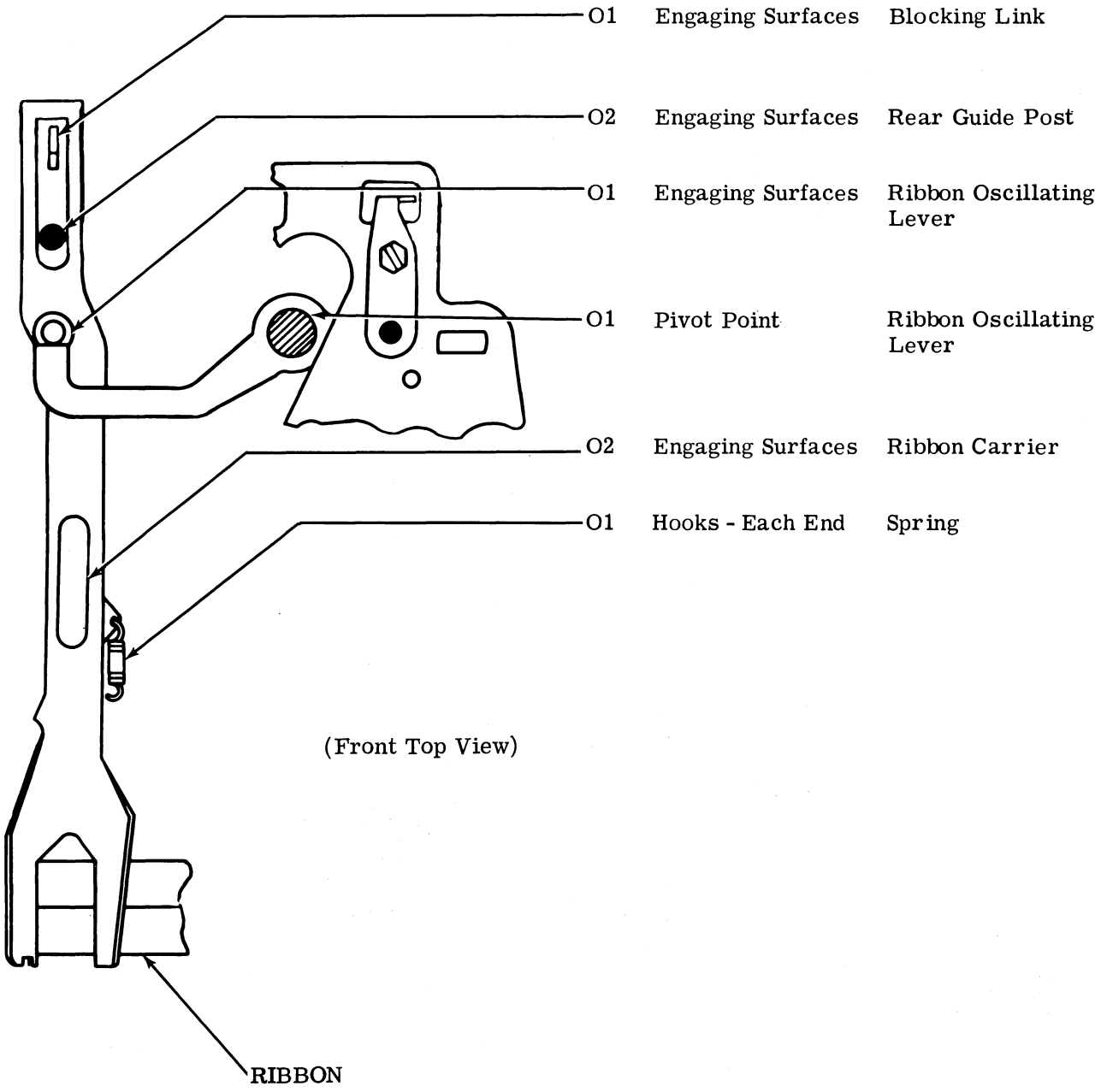
2.18 Clutch Trip Mechanism



GO	Contact Points	Trip Lever
O1	Hooks - Each End	Clutch Release Spring
GO	Contact Surface	Reset Lever
O	Saturate Felt Oilers	Clutch Trip Shaft
O1	Hooks - Each End	Latchlever Spring
G	Contact Surface	Clutch Stop-Lug
O1	Hooks - Each End	Follower Lever Spring
O1	Pivot Point	Trip Cam Follower Lever
O	Contact Surface	Trip Cam Follower Lever
GO	Contact Point	Trip Lever
O1	Pivot Point	Trip Lever
O1	Hooks - Each End	Trip Lever Spring

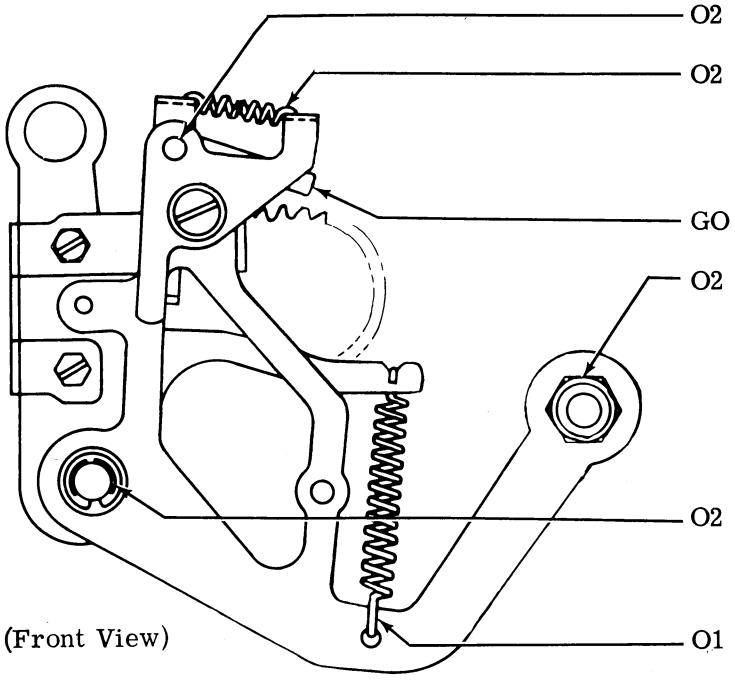
(Rear View)

2.19 Ribbon Carrier Mechanism



3. VARIABLE FEATURES

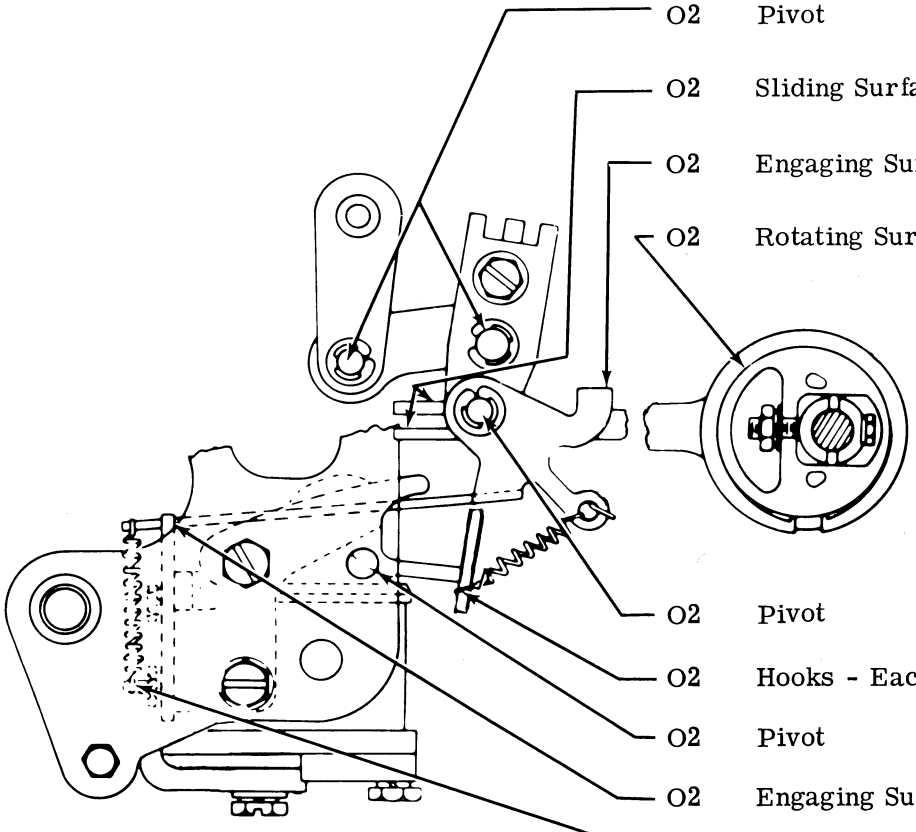
3.01 Manual Backspace Mechanism



(Front View)

O2	Bearing Surface	Backspace Pawl
O2	Hooks - Each End	Backspace Pawl Spring
GO	Feeding Surface	Backspace Pawl
O2	Bearing Surface	Shoulder Nut
O2	Pivot Post	Bellcrank
O1	Hooks - Each End	Bellcrank Spring

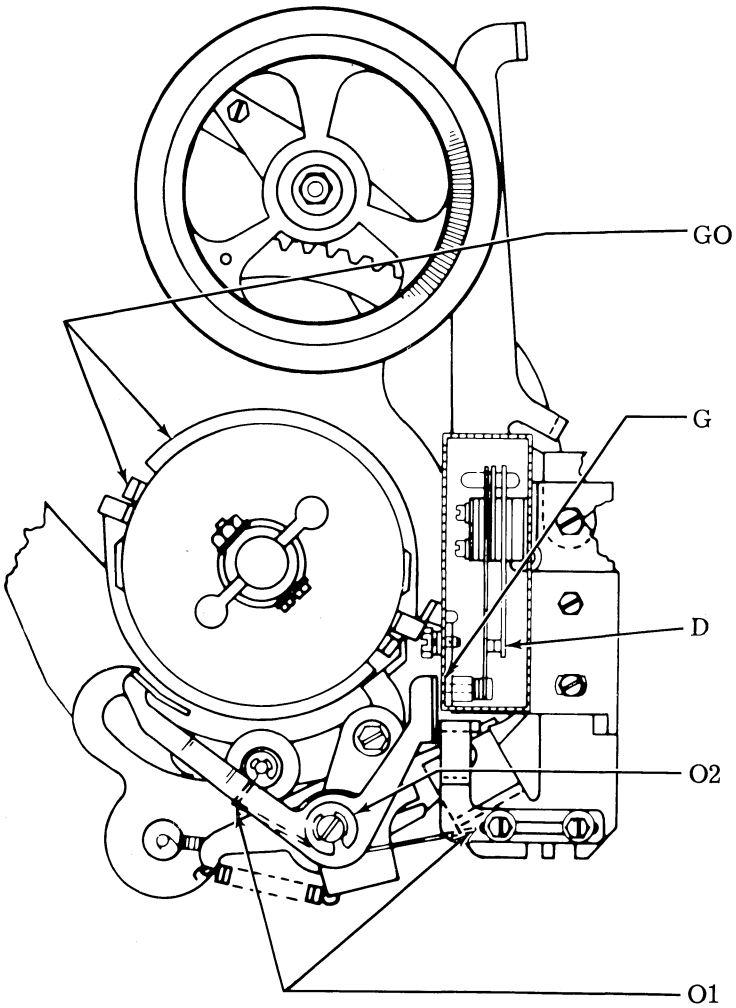
3.02 Power Drive Backspace Mechanism



(Right Front View)

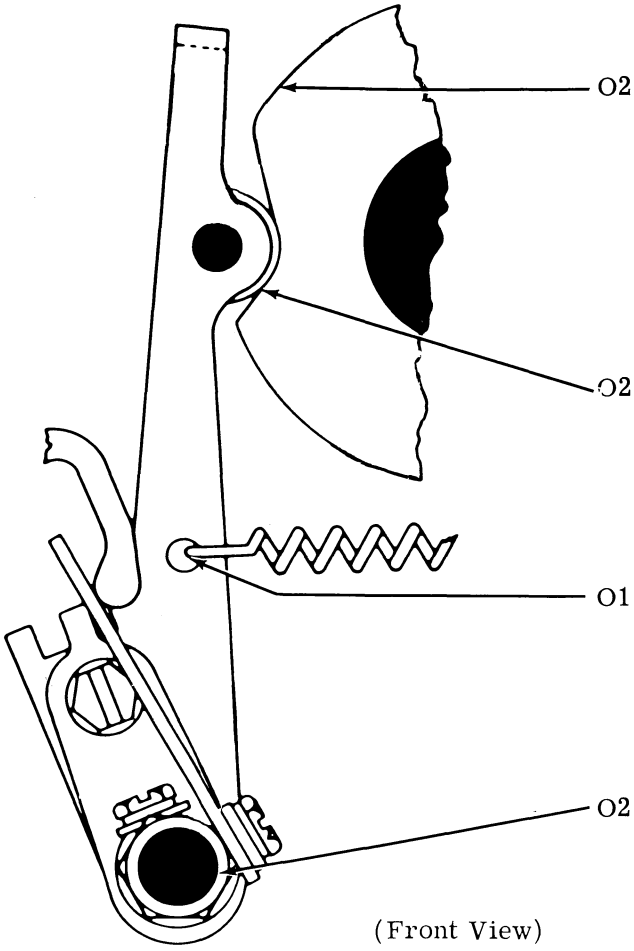
O2	Pivot	Link
O2	Sliding Surface	Eccentric Link Fork
O2	Engaging Surface	Latchlever
O2	Rotating Surface	Eccentric
O2	Pivot	Latchlever
O2	Hooks - Each End	Latchlever Spring
O2	Pivot	Arm
O2	Engaging Surface	Armature
O2	Hooks - Each End	Armature Spring

3.03 Character Received Contact Mechanism



GO	Light Film on Contact Surface	Clutch Cam
G	Light Film on Contact Surface	Contact Plunger
D	Keep Lubricants Away From Contacts	
O2	Engaging Surfaces (Each End of Lever)	Lever Bearing
O1	Engaging Surface (Each End)	Torsion Spring

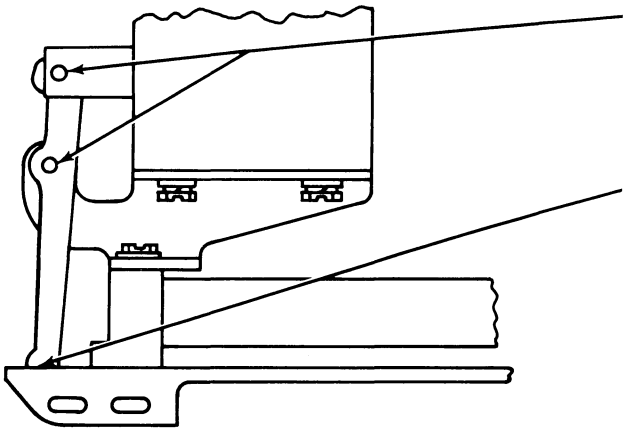
3.04 Remote Control Interfering Tape Delete Feed-Out Mechanism



O2	Camming Surface	Drive Cam
O2	Bearing Surface	Roller
O1	Hooks - Each End	Spring
O2	Bearing Surfaces	Bearings (Front and Rear)

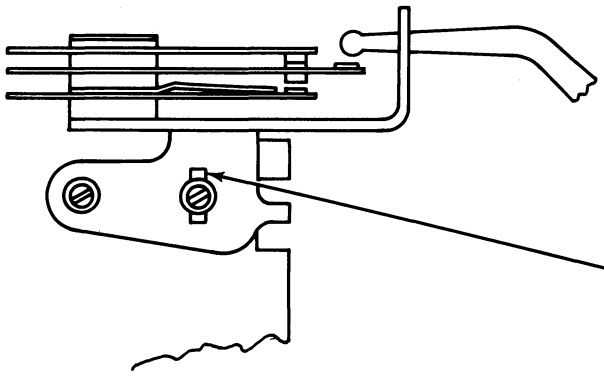
(Front View)

3.05 Two-Color Ribbon Mechanism



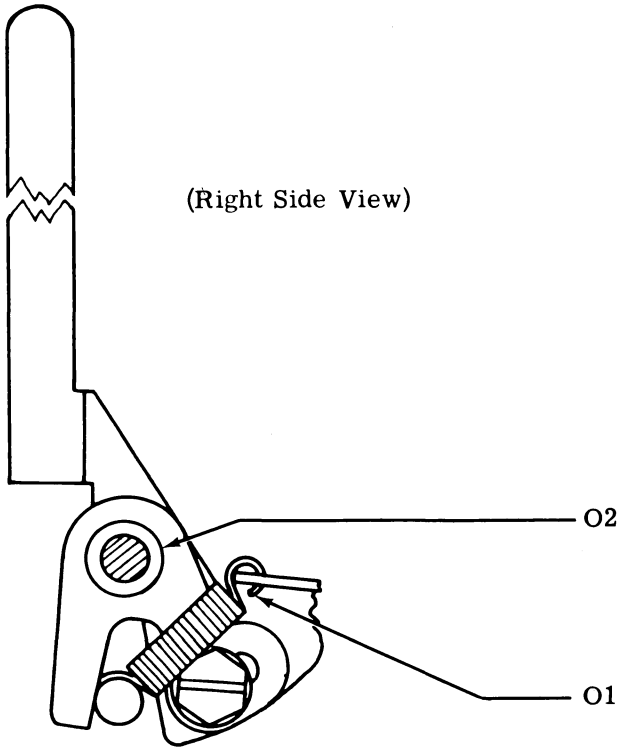
O1	Pivot Points (2)	Ribbon Carrier Retraction Lever
GO	Contact Surface	Ribbon Carrier Retraction Lever

3.06 Two-Color Ribbon Contact Mechanism



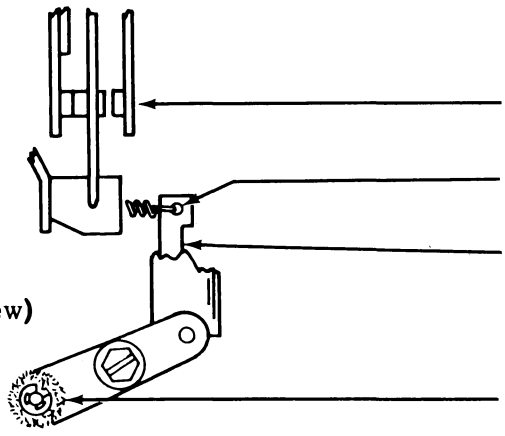
O1	Slot	Contact Mounting Bracket

3.07 Manual Interfering Tape Feed-Out Mechanism



O2	Pivot	Hand Lever
O1	Hooks - Each End	Spring

3.08 Auxiliary Timing Contacts



(Right Side View)

D	Keep Lubricants Away From Contacts	
O1	Hooks - Each End	Spring
G	Light Film on Bail	Bail
O	Saturate Wick	Bail Shaft