37 NONTYPING REPERFORATOR

YRPE800 THROUGH YRPE807

LUBRICATION

CONTENTS

1. GENERAL

1.01 This section provides lubrication procedures for the 37 nontyping reperforator (Figure 1). It is reissued to include new lubrication requirements and to revise existing information for YRPE800 through YRPE807. Because this issue is a general revision, marginal arrows showing added or changed information have been omitted.

1.02 General areas of the equipment are shown by photographs. Specific points to receive lubrication are indicated on the 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 reperforator in a normal operating position with the selector mechanism on the right and the function mechanism on the left.

1.04 Lubricate the reperforator before placing it into service and just prior to putting it into storage. For lubrication information for YRPE808 and YRPE809, refer to 574-329-704.

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

Operating Speed (WPM)	Lubrication Interval
100	1500 hours or 6 months *
150	1000 hours or 6 months *

*Whichever occurs first.

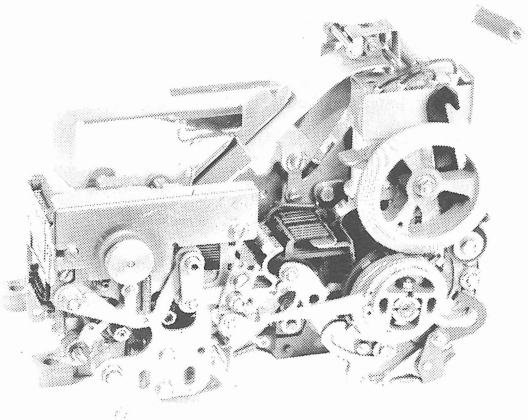


Figure 1 - 37 Nontyping Reperforator

Prepared for American Telephone and Telegraph Company by Teletype Corporation

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

Symbol	Meaning
O	Apply KS7470 oil.
G	Apply KS7471 grease as specified.
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 The following general instructions supplement the specific lubricating points illustrated on subsequent pages:

Apply one drop of oil to all spring hooks.

Apply a light film of oil to all cam surfaces.

Apply a thick coat of grease to all gears.

Saturate all felt washers, oilers, etc.

Apply oil to all pivot points.

Apply oil to all sliding surfaces.

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

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 rusts 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 reperforator.

1.09 Gold-plated contacts are used in this equipment. The recommended cleaning interval for gold-plated contacts in special low-level applications (less than 250 microwatts and having an average weekly use of 60 hours) should not exceed 90 days. This interval may be reduced dependent on the signal circuit configuration, usage, and environment.

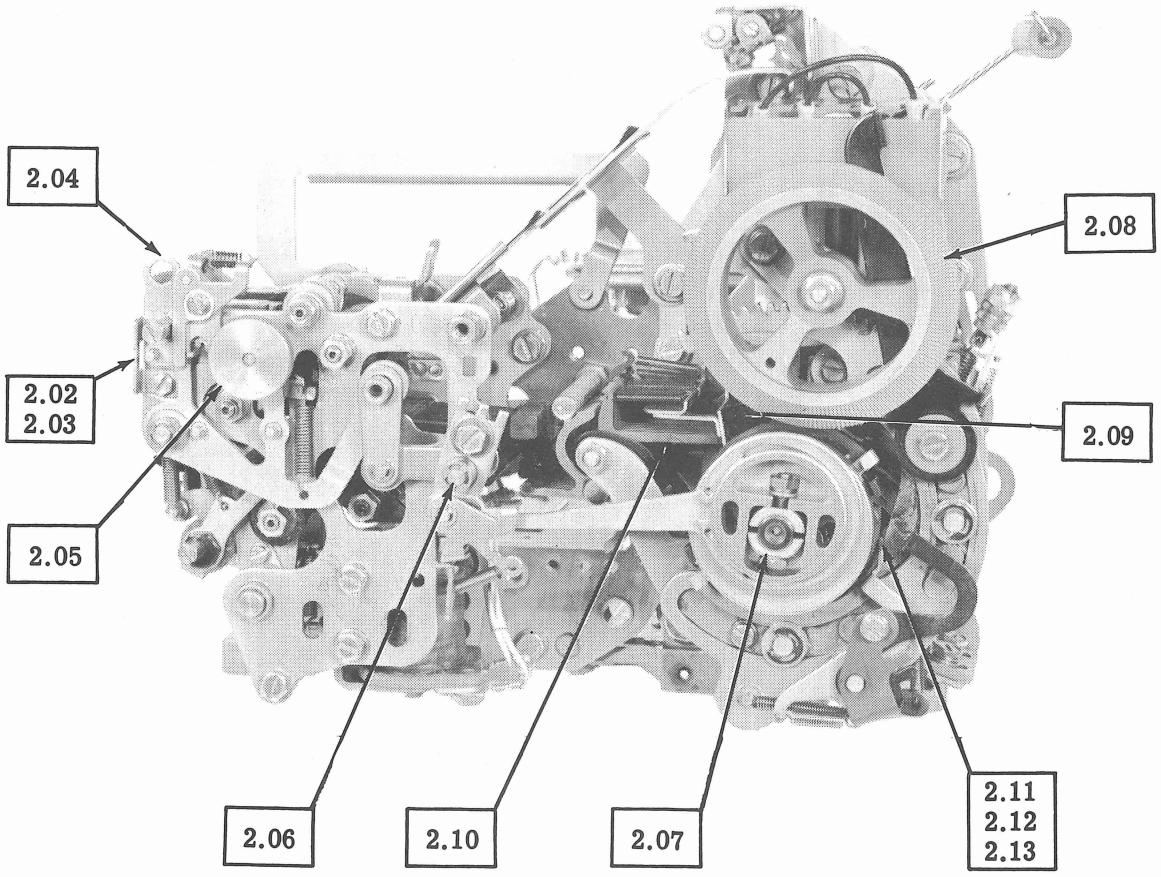
1.10 Use twill jean cloth (KS2423) to clean gold-plated contacts. Do not use burnishers, files, etc which will remove the gold plating.

CAUTION: DO NOT USE GOLD-PLATED CONTACTS ALTERNATELY IN HIGH- AND LOW-LEVEL CIRCUITS BECAUSE HIGH-LEVEL OPERATION MAY DAMAGE THE GOLD PLATING AND IMPAIR THE CONTACTS USED IN LOW-LEVEL CIRCUITS.

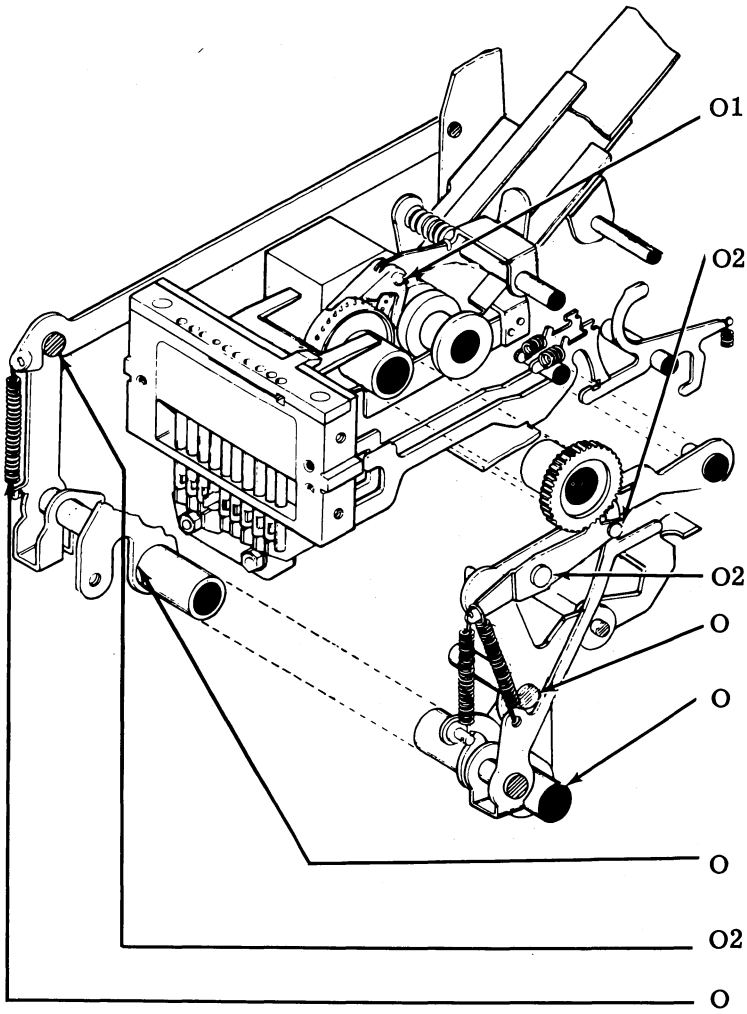
CAUTION: REMOVE POWER BEFORE LUBRICATING THE EQUIPMENT.

2. BASIC UNIT

2.01 Nontyping Reperforator (Right Side View)



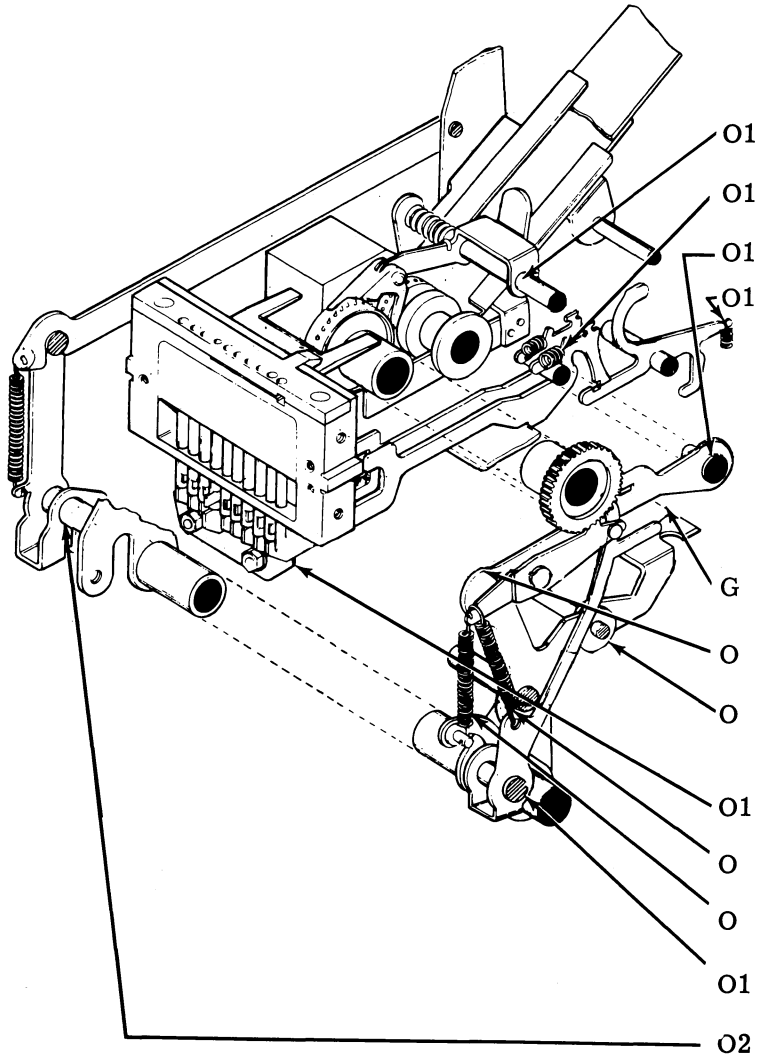
2.02 Perforator Mechanism



(Left Front View)

O1	Pivot Point	Tape Shoe
O2	Roller	Detent Lever
O2	Pivot Point	Detent Lever
O	Saturate Felt Washers at Pivot Points (4)	Front and Rear Toggle Link
O	Saturate Felt Washers at Pivot Points (2)	Toggle Bail
O	Saturate Felt Washers at Pivot Points (2)	Toggle Bail
O2	Pivot Points (2)	Punch Drive Link
O	Saturate Felt Wick	Drive Link Spring

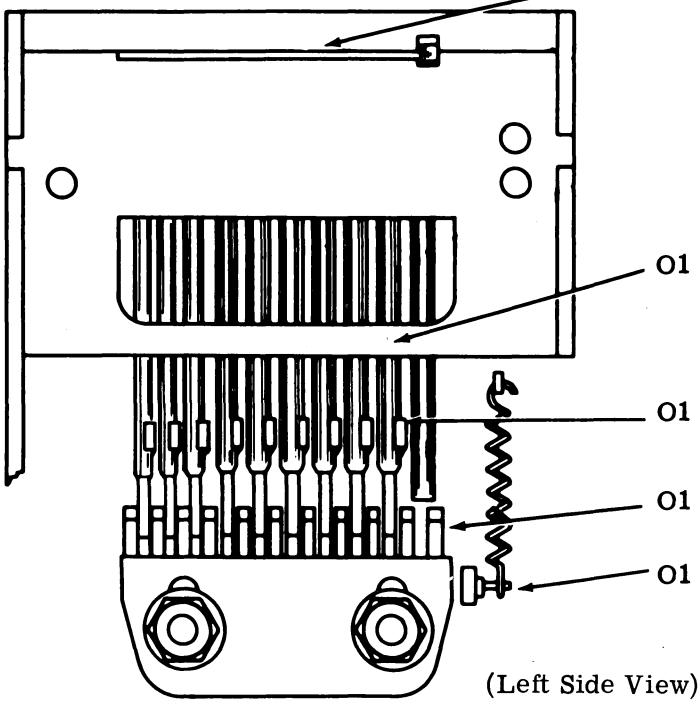
2.03 Perforator Mechanism (continued)



O1	Pivot Points (2)	Tape Shoe Arm
O1	Hooks - Each End	Springs
O1	Pivot Points (9)	Punch Slides
O1	Hooks - Each End	Springs
G	Reset Surface	Reset Bail
O	Saturate Felt Strip	Oscillating Slide
O	Saturate Felt Washers at Pivot Points (2)	Reset Bail
O1	Contact Surfaces (9)	Punch Slides
O	Saturate Felt Wick	Feed Pawl Spring
O	Saturate Felt Wick	Detent Spring
O1	Pivot Points (2)	Feed Pawl
O2	Pivot Points (2)	Rocker Arm

(Left Front View)

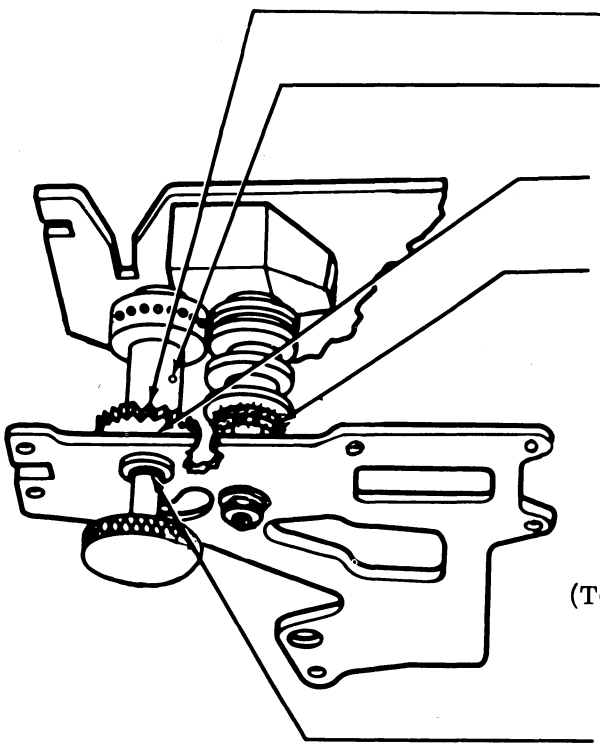
2.04 Punch Mechanism



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)

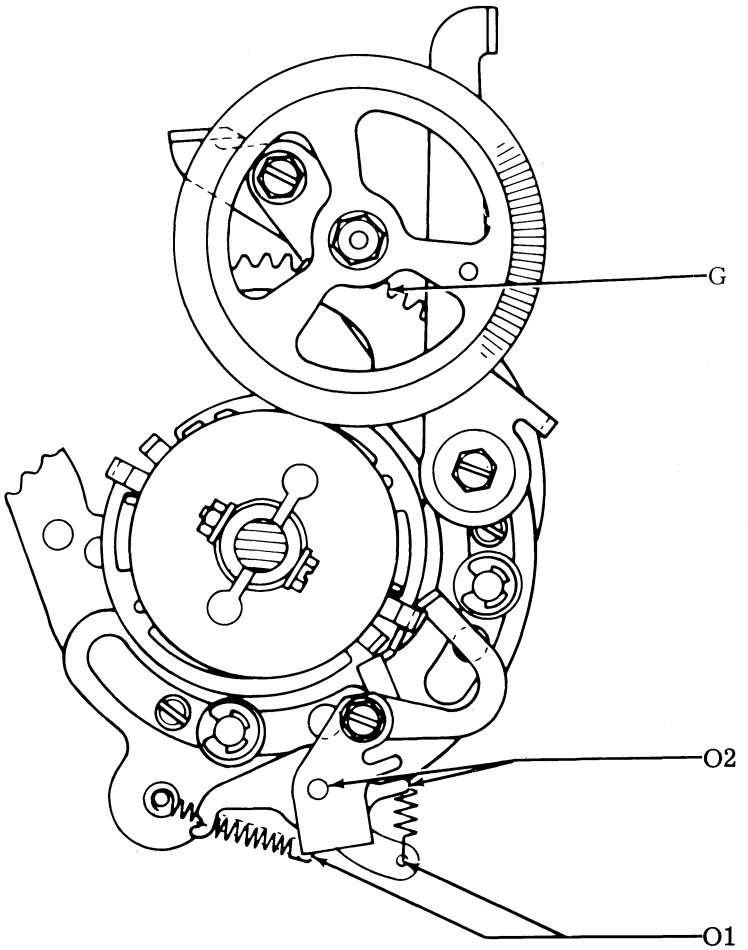
2.05 Feed Mechanism



G	Light Film on Ratchet Teeth (2)	Feed Wheel
O1	Oil Hole	Feed Wheel
O	Saturate Felt Washer, Pivot Point	Feed Wheel
O	Saturate Felt Washer, Pivot Point	Die Wheel
O2	Pivot Points (2)	Handwheel Bearing

(Top Front View)

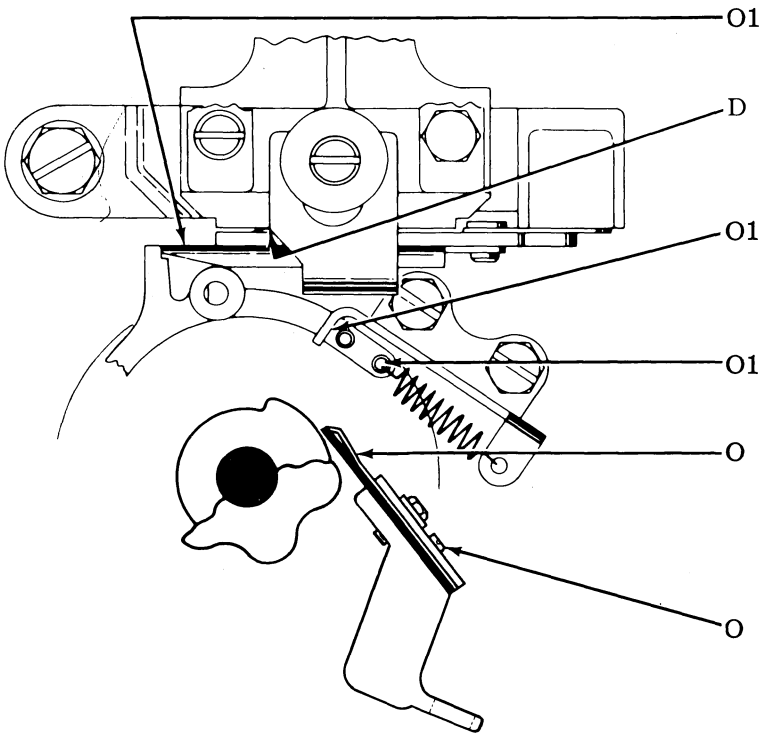
2.06 Selector Range Finder and Levers



G	Light Film on Teeth	Range Finder Pinion Gear and Rack
O2	Bearing Surface	Clutch Trip and Latch-levers, Lift Lever
O1	Hooks (Each End)	Springs (3)

(Right Front View)

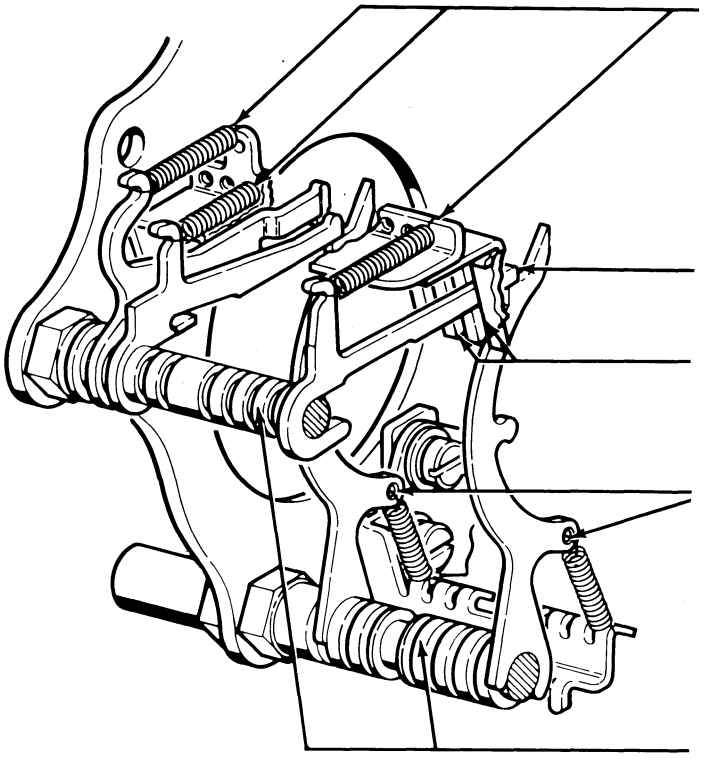
2.07 Selector Cam Lubricator and Marking Locklever



O1	Contact Surface	Armature Extension
D	Contact Surface	Front Button
O1	Guide Slot	Marking Locklever
O1	Hooks (Each End)	Spring
O	Saturate Wick	Cam Lubricator Wick
O	Fill Reservoir	Cam Lubricator

(Right Front View)

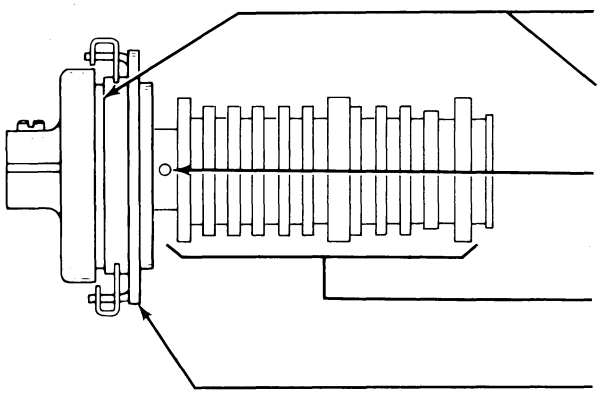
2.08 Selector Locklevers and Pushlevers



(Right Front View)

O1	Hooks (Each End)	Springs (11)
O1	Engaging Surfaces	Pushlevers
O1	Guide Slots	Start and Lock-levers, Selector and Pushlevers
O1	Hooks (Each End)	Springs (10)
O2	Bearing Guide Slots	Push and Selector Levers Guide Bearings

2.09 Selector Cam Clutch

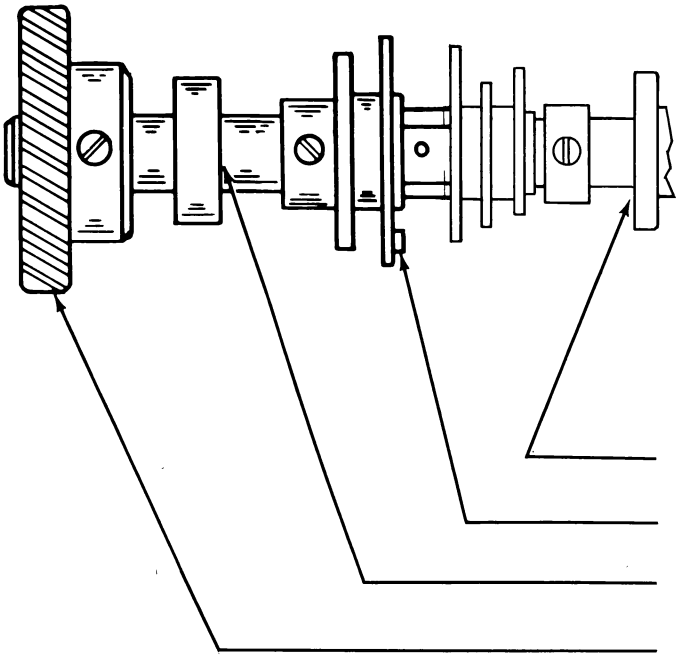


(Top View)

O	Saturate Felt Wick	Selector Clutch
O4	Internal Mechanism	Selector Clutch
O2	Oil Holes (2)	Cam Sleeve Bearing
O2	Camming Surfaces	Selector Cams
O2	Camming Surfaces	Clutch Disc

2.10 Main Shaft Mechanism

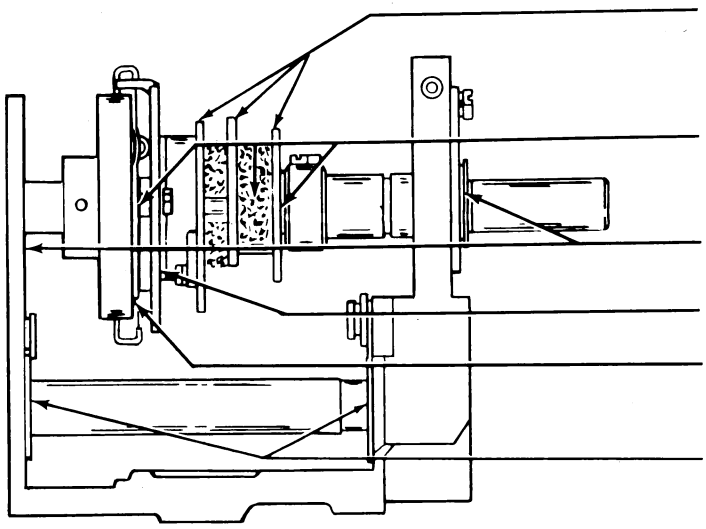
Note: If function cam needle bearings are disassembled at any time, repack bearings with grease (TP195298) or its equivalent.



O2	Bearing	Main Shaft
G	Reset Pin	Function Cam
O2	Bearing	Main Shaft
G	Light Film on Teeth	Driven Gear

(Top View)

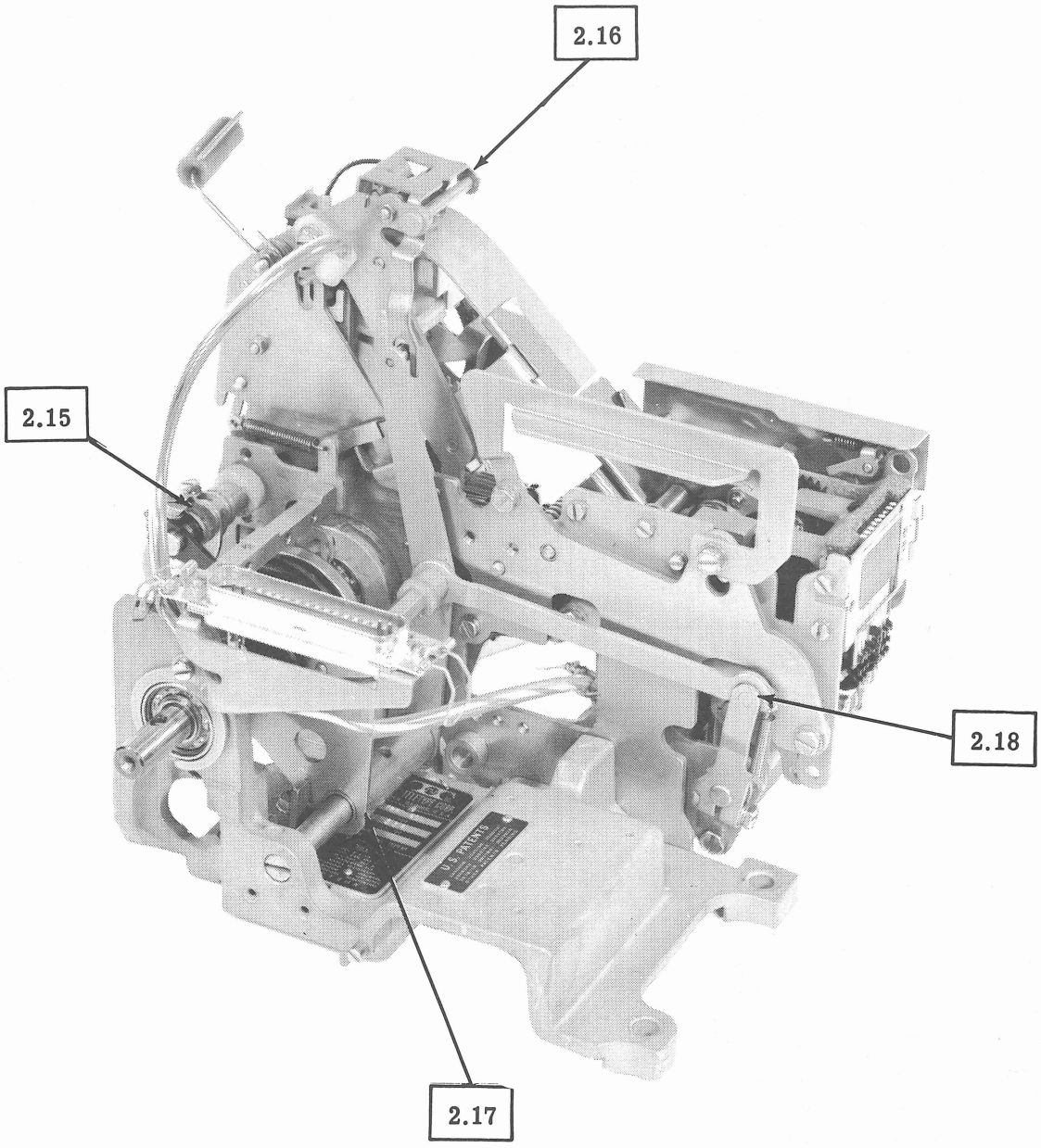
2.11 Main Shaft Mechanism (continued)



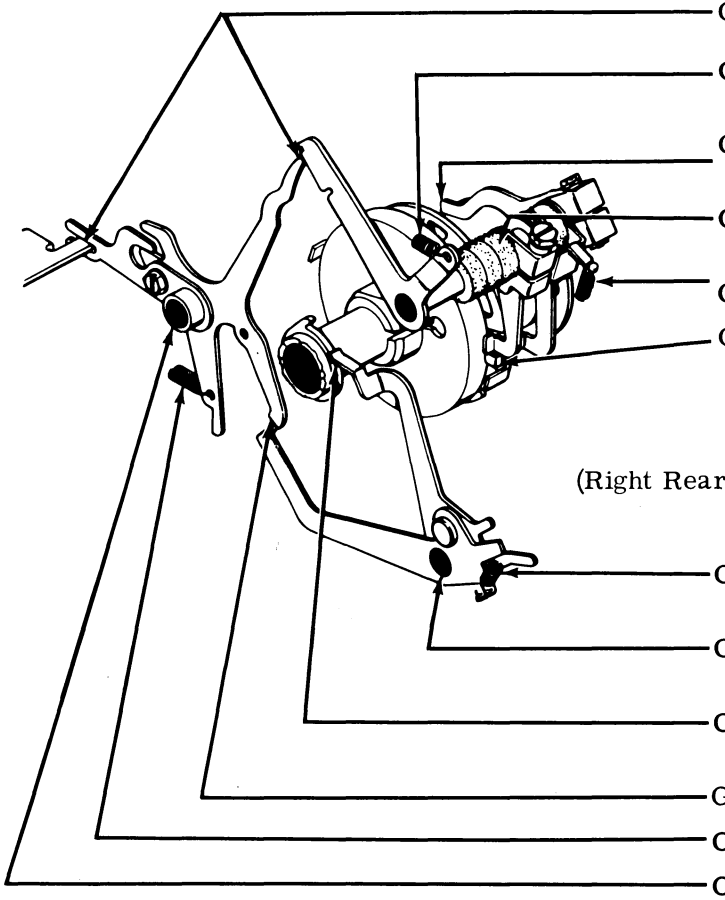
G	Thin Film on Camming Surfaces (2)	Function Cam
O6	Function Cam Needle Bearing Sleeve	Both Ends of Sleeve and Felt Oiler
O2	Bearing Surfaces	Ball Bearings (2)
O1	Camming Surface	Clutch Cam Disc
O1	Bearing Surface	Function Clutch Drum
O2	Bearing Surfaces	Ball Bearings (2)

(Rear View)

2.12 Nontyping Reperforator (Left Front View)



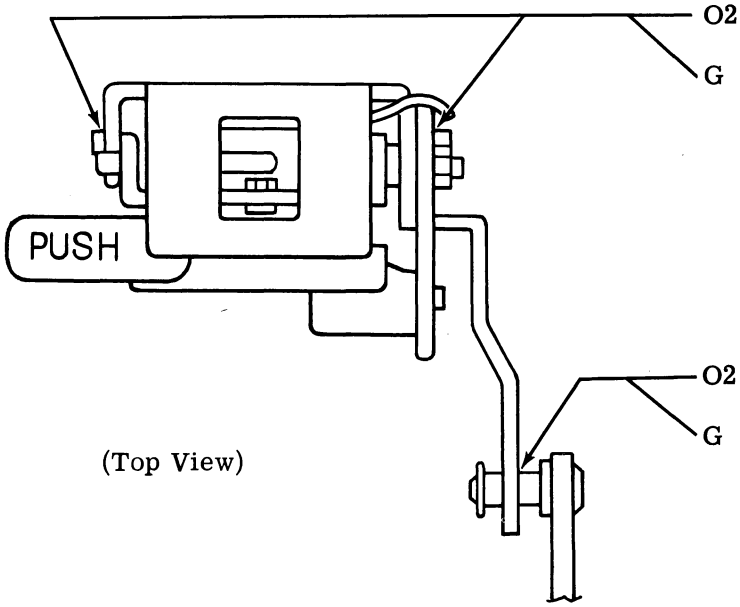
2.13 Function Cam-Clutch Trip Mechanism



(Right Rear View)

G	Contact Points (2)	Trip Lever
O1	Hooks - Each End	Clutch Release Spring
G	Thin Film on Contact Surface	Reset Lever
O	Saturate Felt Washers	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
O1	Contact Surface	Trip Cam Follower Lever
G	Contact Point	Trip Lever
O1	Hooks - Each End	Trip Lever Spring
O1	Pivot Point	Trip Lever

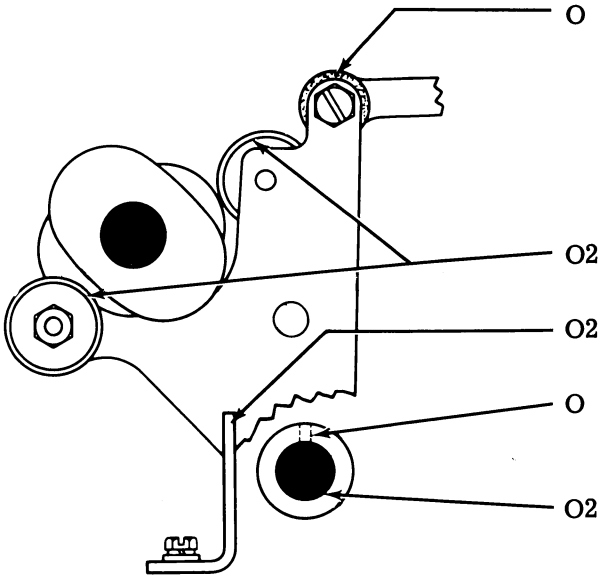
2.14 Tape Depressor Mechanism



(Top View)

O2	Pivot Points	Tape Depressor
G	Thin Film	Tape Depressor
O2	Roller Surface	Drive Roller
G	Thin Film	Tape Depressor

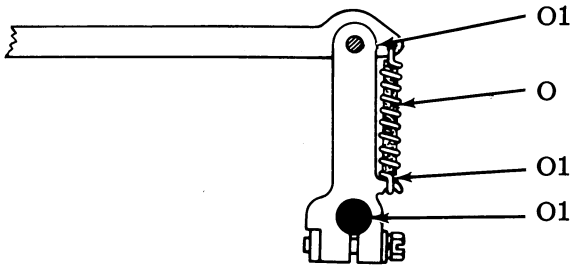
2.15 Rocker Bail Mechanism



O	Saturate Felt Wick	Drive Link Wick
O2	Rollers (2)	Rocker Bail Rollers
O2	Guide Slot	Rocker Bail Guide
O	Saturate Felt Wick — Use Oil Hole	Rocker Bail Shaft
O2	Pivot	Rocker Bail Shaft

(Left Side View)

2.16 Rocker Arm

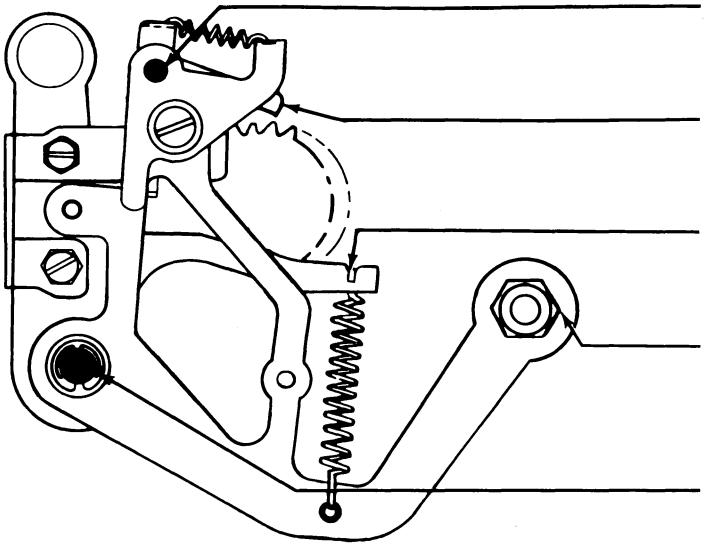


O1	Engaging Surface	Rocker Arm
O	Saturate Felt Wick	Rocker Arm
O1	Hooks - Each End	Spring
O1	Bearing Surface	Rocker Arm

(Left Side View)

3. VARIABLE FEATURES

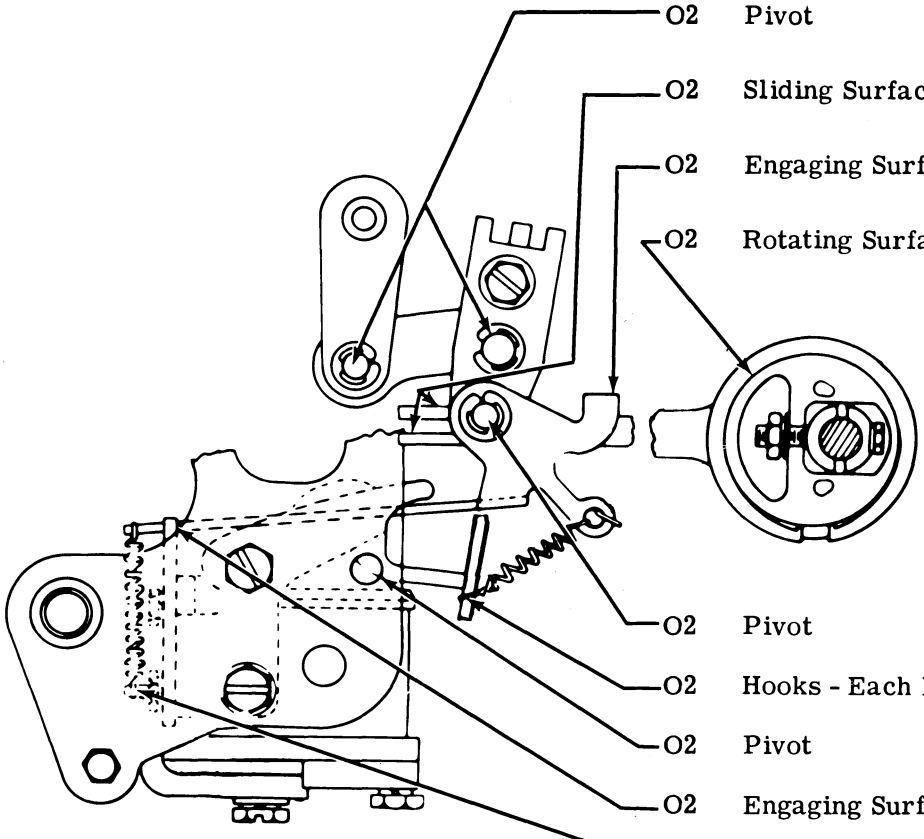
3.01 Backspace Mechanism



O2	Bearing Surface	Feed Pawl
O2	Hooks - Each End (2 Springs)	Spring
G	Light Film on Contact Surface	Feed Pawl
O2	Bearing Surface	Shoulder Nut
O2	Pivot Post	Bellcrank

(Front View)

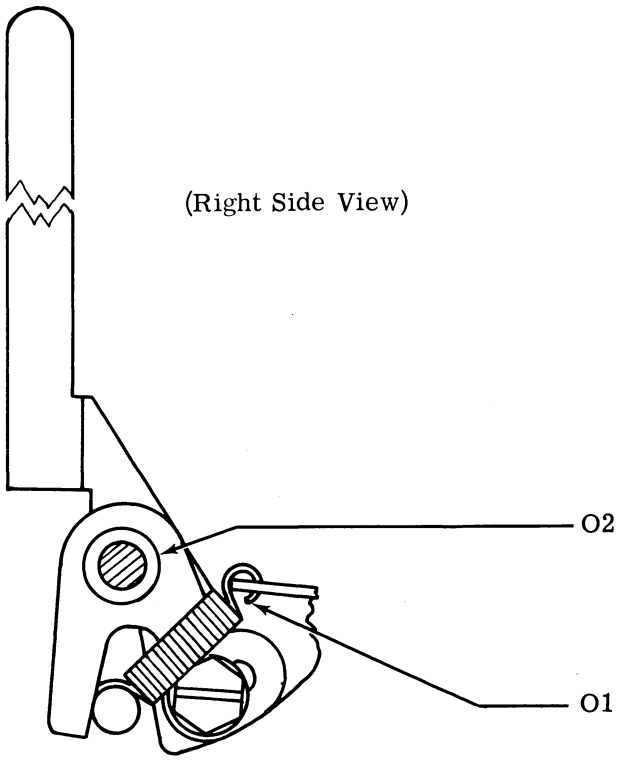
3.02 Backspace Mechanism (continued)



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 Hinge
O2	Hooks - Each End	Armature Spring

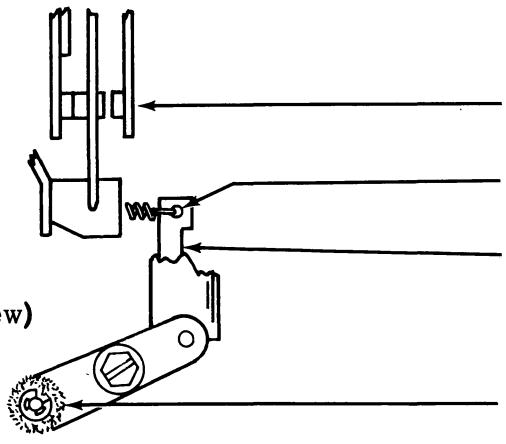
(Front View)

3.03 Manual Interfering Tape Feed-Out Mechanism



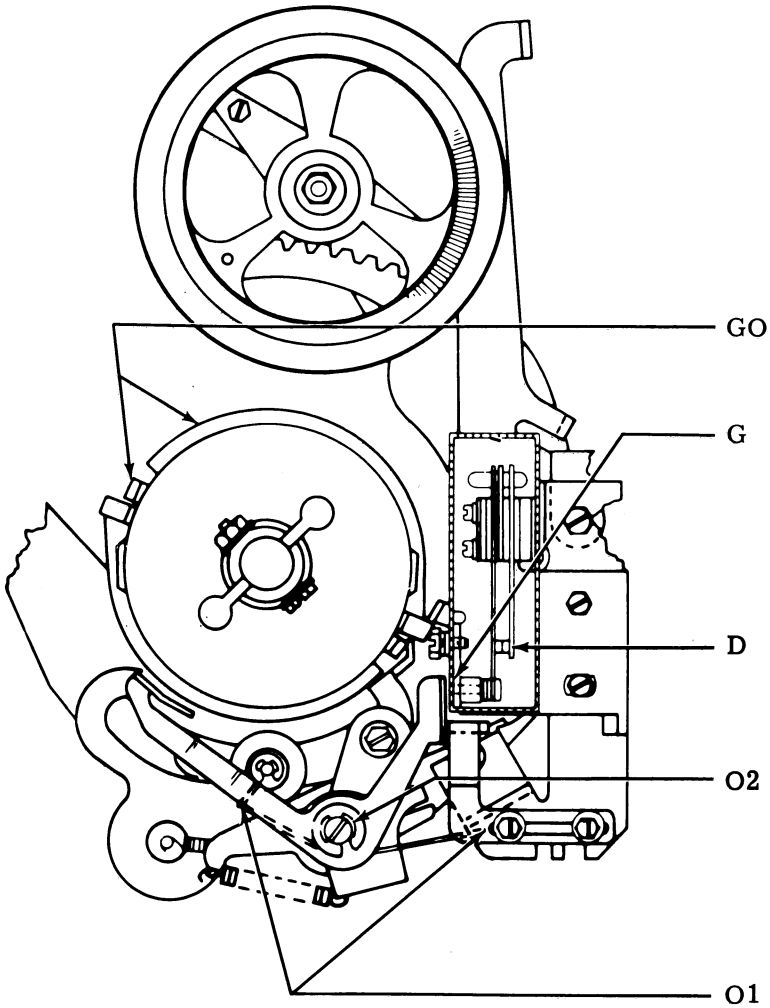
O2	Pivot	Hand Lever
O1	Hooks - Each End	Spring

3.04 Auxiliary Timing Contacts



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

3.05 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

(Right Front View)