

28 TYPING AND NONTYPING PERFORATORS

LUBRICATION

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Perforator trip lever mechanism (nontyping only)	5	1. GENERAL	
Power drive backspace mechanism (early design)	18	1.01 This section contains the specific lubrication procedures for the 28 Typing and Nontyping Perforators. Included in the section are recent engineering changes and additions bringing it generally up-to-date.	
Power drive backspace mechanism (latest design)	19	1.02 The 28 Typing and Nontyping Perforators should be lubricated as directed in this section. The figures indicate points to be lubricated and the kind and quantity of lubricant to be used. Lubricate the perforators just prior to placing them in service. After a few weeks in service, relubricate to make certain that all points receive lubrication. The following lubrication schedule should be followed thereafter:	
Printing mechanism (typing perforator only)	16		
Punch mechanism	6		
Punch pin mechanism	7		
Punch slide latch mechanism	6		
Punch slide mechanism	7		
Push bars (typing perforator only)	12		

SECTION 573-139-701

OPERATING SPEEDS
IN WORDS PER MINUTE

60

75

100

150

LUBRICATION
INTERVAL

3000 hours
or 1 year*

2400 hours
or 9 months*

1500 hours
or 6 months*

1000 hours
or 6 months*

*Whichever occurs first.

1.03 Use TP88970 oil at all locations where the use of oil is indicated. Use TP88973 grease on all surfaces where grease is indicated.

1.04 All spring wicks and felt oilers should be saturated. The friction surfaces of all moving parts should be thoroughly lubricated. Over lubrication, however, which will permit oil or grease to drip or be thrown on other parts,

should be avoided. Special care must be taken to prevent any oil or grease from getting between electrical contacts.

1.05 Apply a thick film of grease to all gears.

1.06 Apply oil to all cams, including the camming surfaces of each clutch disc.

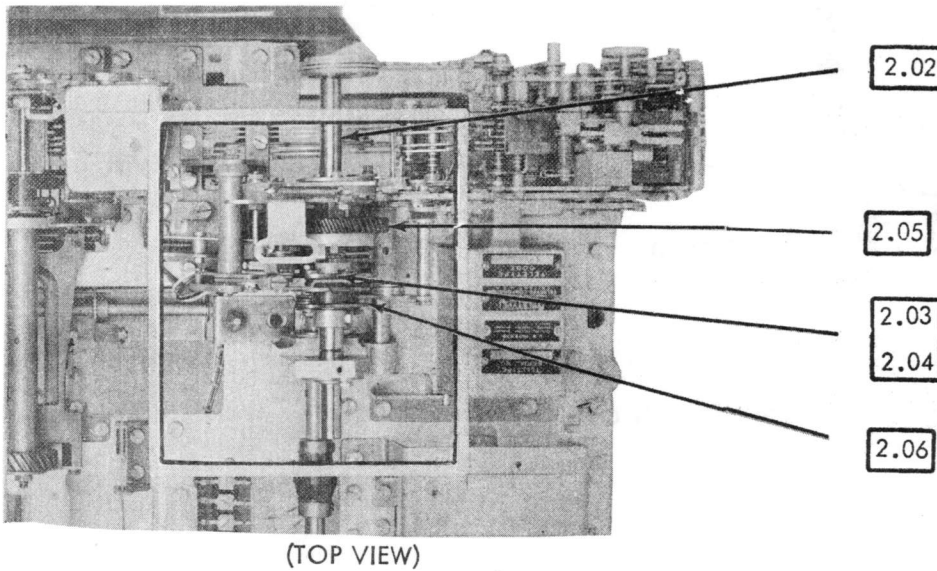
1.07 The photographs show the paragraph numbers referring to particular line drawings of mechanisms and where these mechanisms are located on the unit. Parts in the line drawings are shown in an upright position unless otherwise specified.

1.08 The illustration symbols indicate the following lubrication directions:

- O Apply 1 drop of oil.
- O2 Apply 2 drops of oil.
- O3 Apply 3 drops of oil.
- O20 Apply 20 drops of oil, etc.
- G Apply thin film of grease.
- SAT Saturate (felt oilers, washers, wicks) with oil.

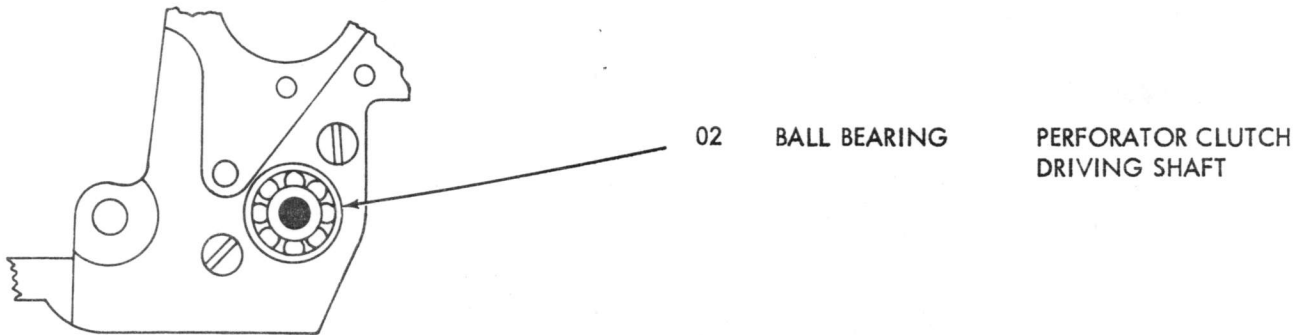
2. LUBRICATION

2.01 PERFORATOR MECHANISM RESET AND PERFORATOR MECHANISM IN UPRIGHT POSITION

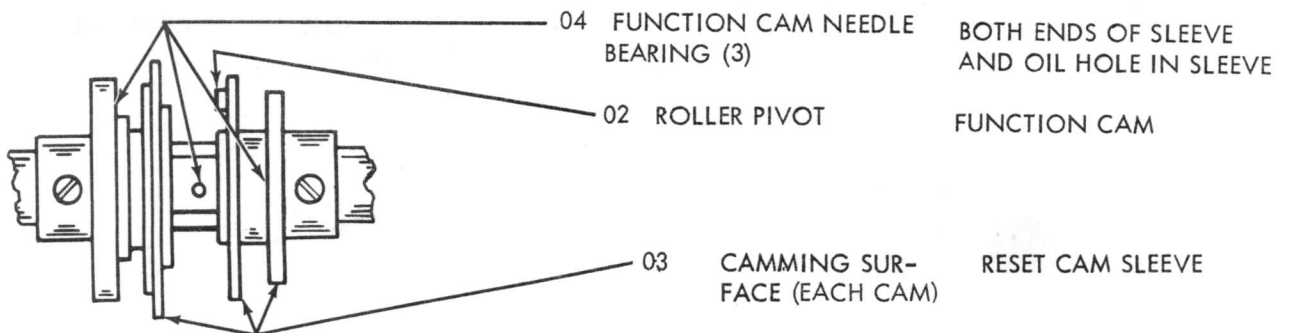


(TOP VIEW)

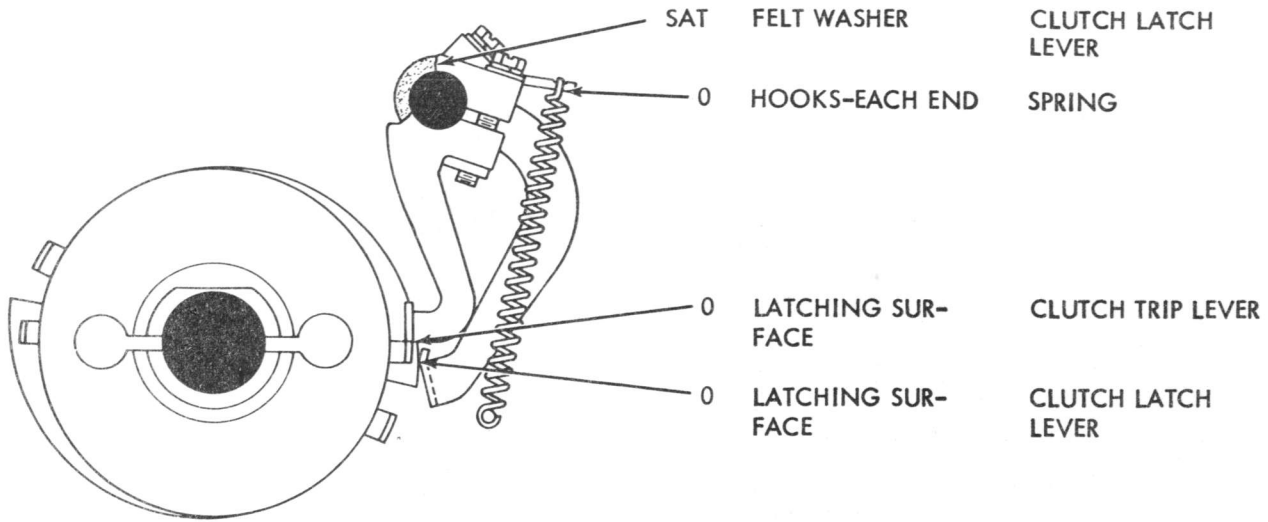
2.02 PERFORATOR CLUTCH DRIVING SHAFT MECHANISM (NON-TYPING ONLY)



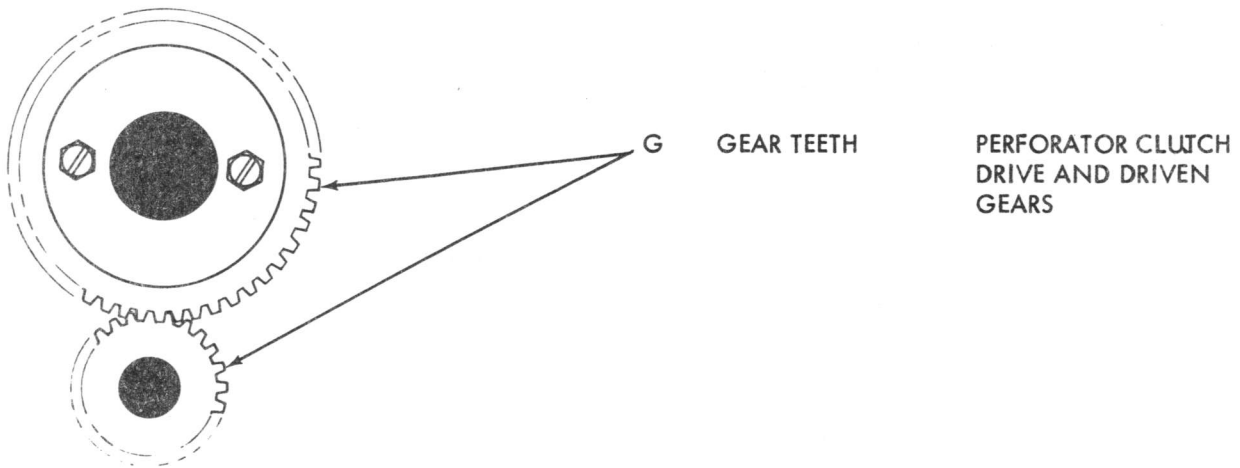
2.03 PERFORATOR CLUTCH AND RESET CAM MECHANISM



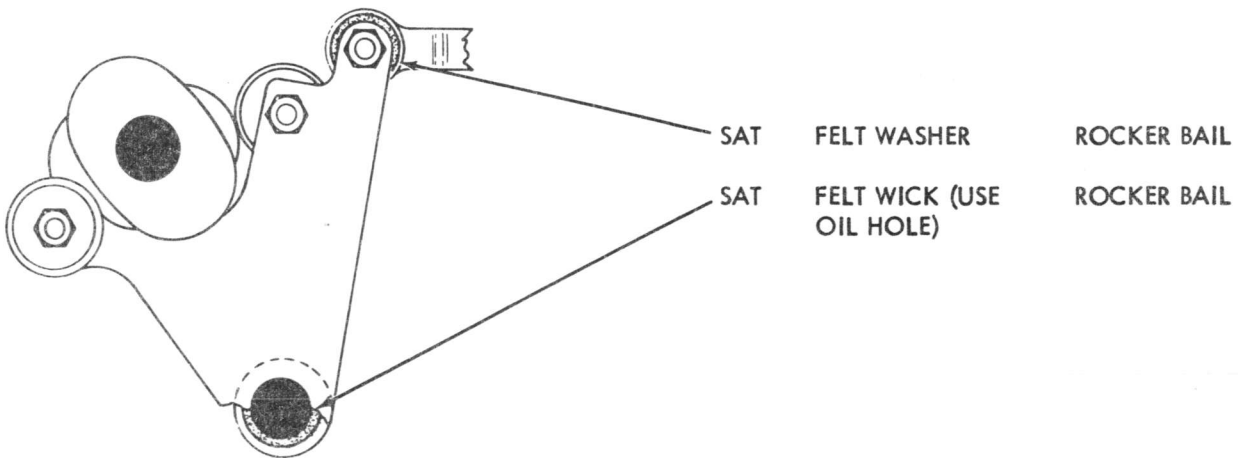
2.04 PERFORATOR CLUTCH MECHANISM (NON-TYPING ONLY)



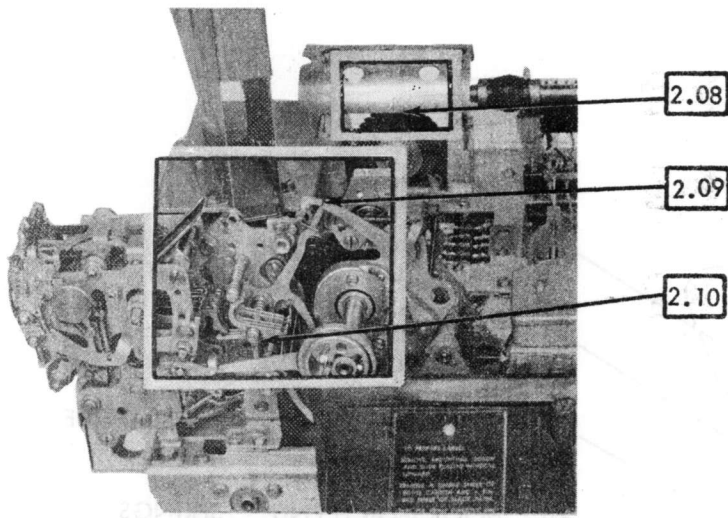
2.05 PERFORATOR CLUTCH GEAR MECHANISM (NON-TYPING ONLY)



2.06 ROCKER BAIL MECHANISM (NON-TYPING ONLY)

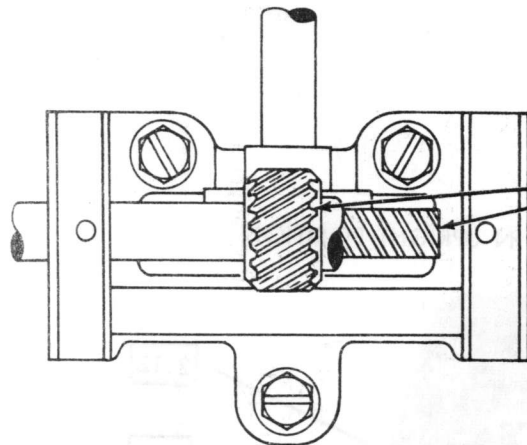


2.07 PERFORATOR MECHANISM (continued) REST PERFORATOR TRANSMITTER IN UPRIGHT POSITION



(FRONT VIEW)

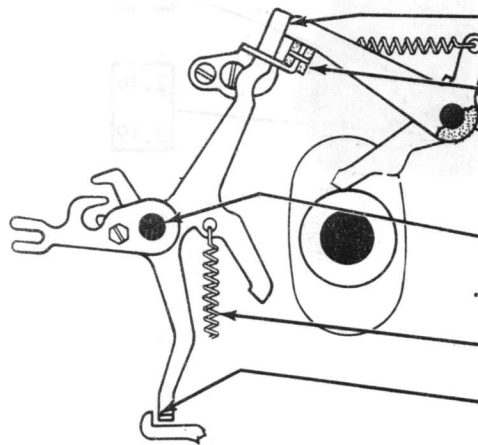
2.08 REAR BEARING BRACKET GEAR MECHANISM



G GEAR TEETH

REAR BEARING BRACKET GEAR

2.09 PERFORATOR TRIP LEVER MECHANISM (NON-TYPING ONLY)



0 CONTACT SURFACE

PERFORATOR TRIP LEVER

SAT FELT WICK

PERFORATOR TRIP LEVER

SAT FELT WASHER

CLUTCH RELEASE

0 BEARING SURFACE

PERFORATOR TRIP LEVER

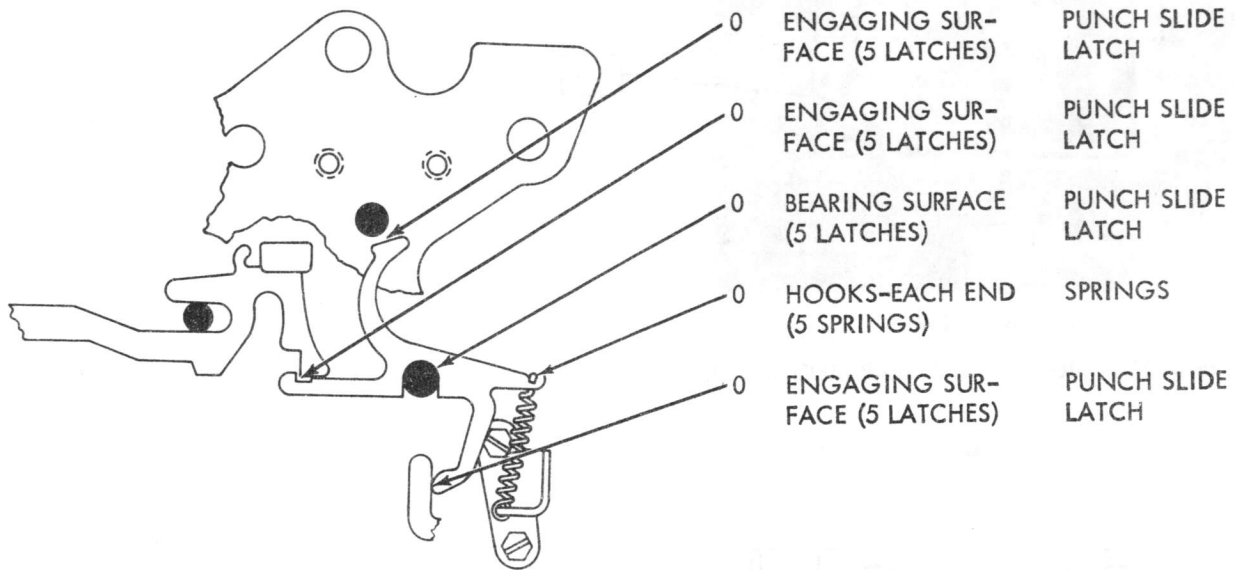
0 HOOKS-EACH END

SPRING

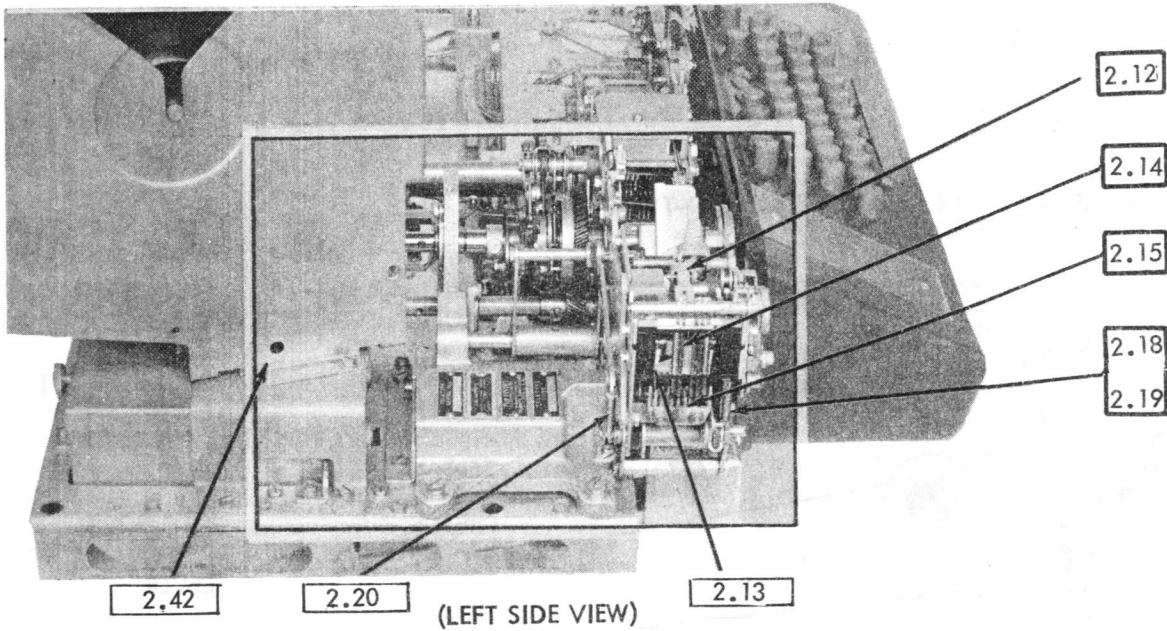
0 ENGAGING SURFACE

PERFORATOR TRIP LEVER LATCH

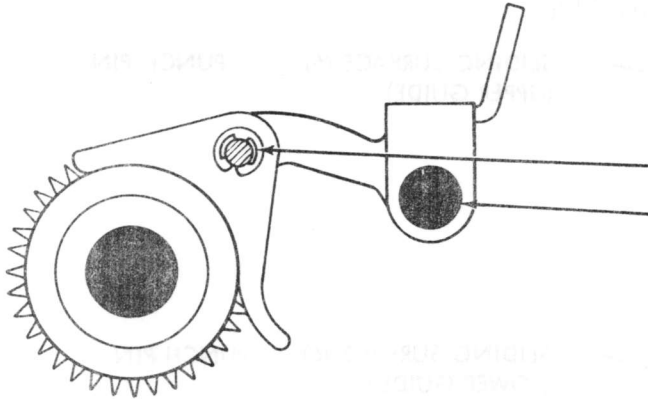
2.10 PUNCH SLIDE LATCH MECHANISM



2.11 PUNCH MECHANISM - REST PERFORATOR TRANSMITTER IN UPRIGHT POSITION

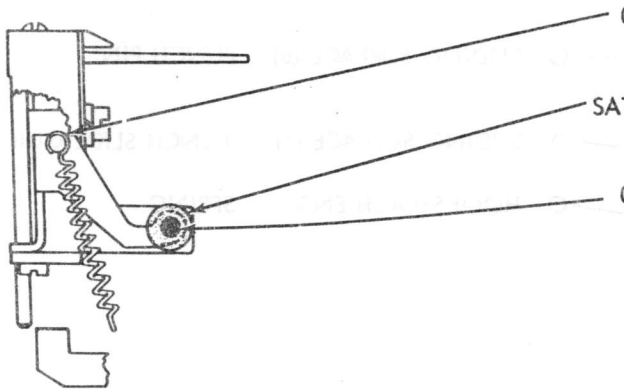


2.12 TAPE SHOE ARM MECHANISM



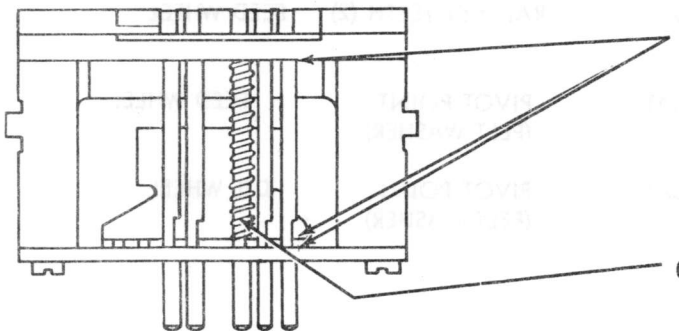
- 0 BEARING SURFACE TAPE SHOE
- 0 BEARING SURFACE (2) (FRONT AND REAR) TAPE SHOE ARM

2.13 RETRACTOR BAIL MECHANISM



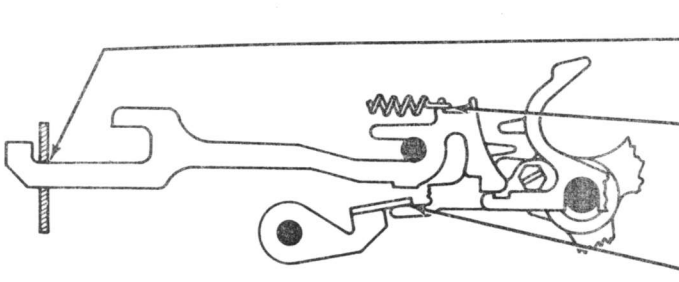
- 0 HOOKS-EACH END (4 SPRINGS) ROCKER BAIL SPRING
- SAT FELT WASHERS (2-FRONT & REAR) RETRACTOR BAIL
- 0 BEARING SURFACE (2-FRONT & REAR) RETRACTOR BAIL

2.14 PUNCH PIN MECHANISM



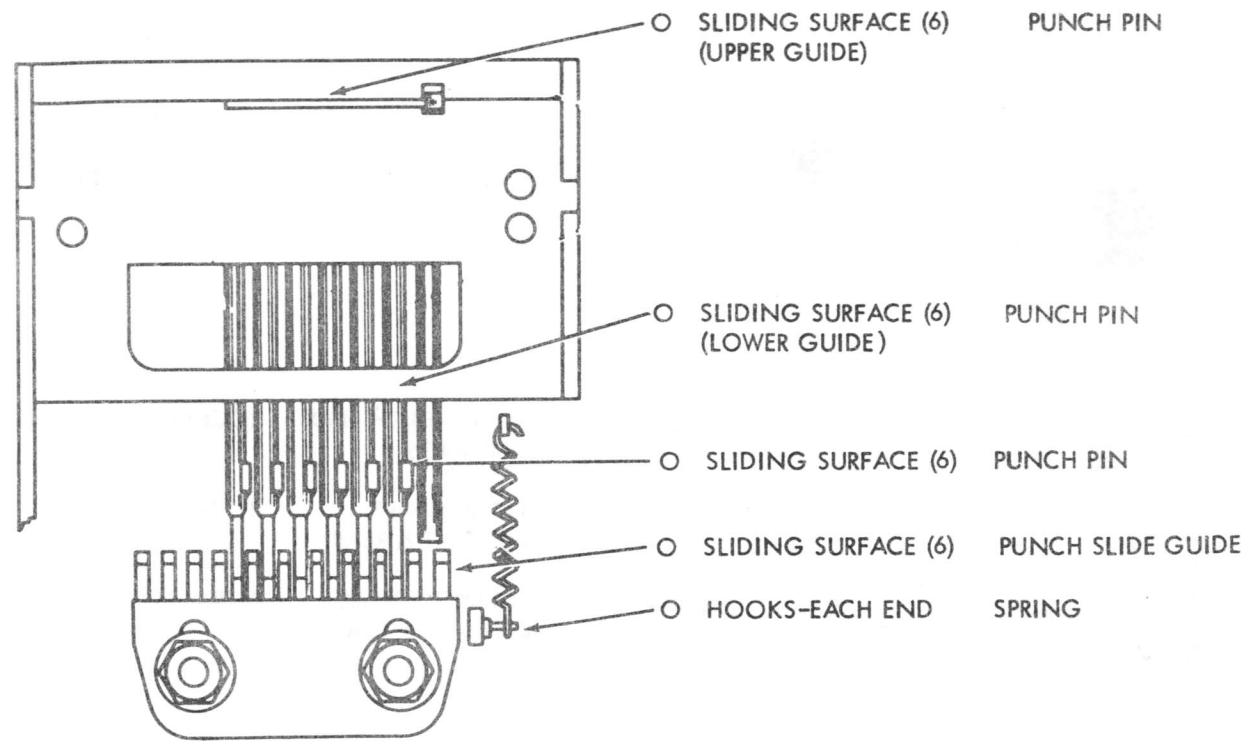
- 0 GUIDES AND NOTCHES (3 PLACES) PUNCH PINS
- 0 SPRING RETRACTOR SPRING

2.15 PUNCH SLIDE MECHANISM

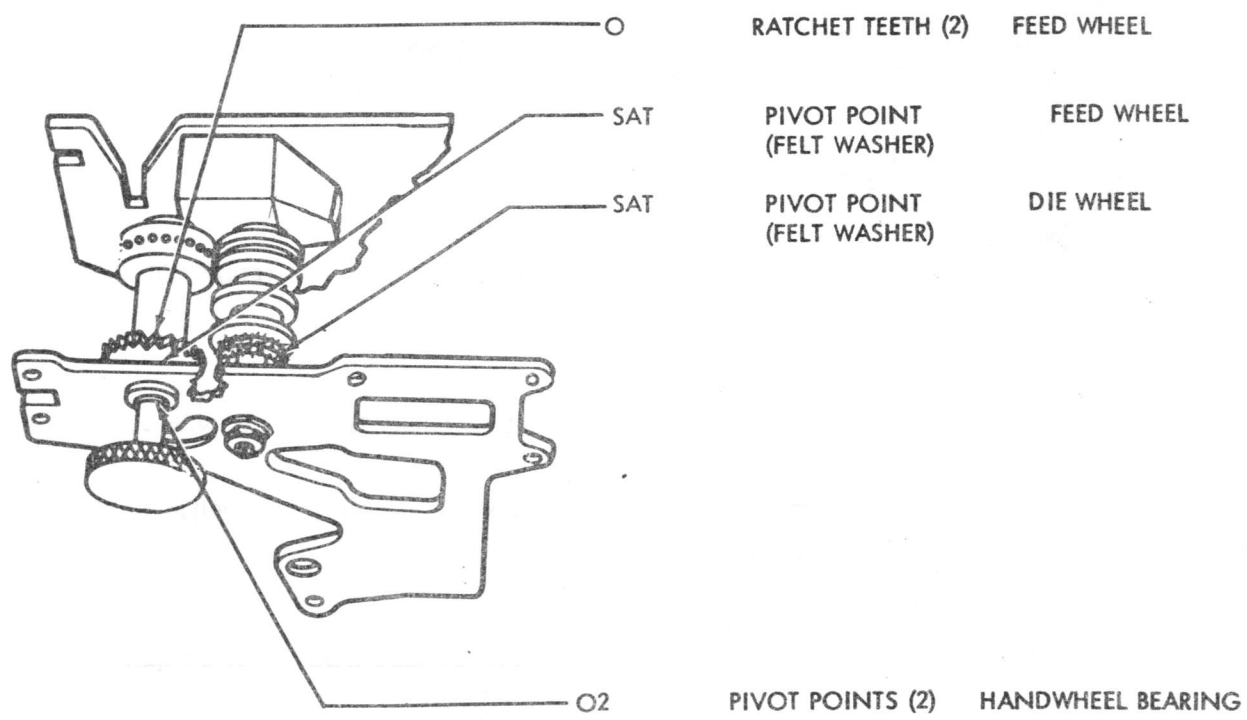


- 02 ENGAGING SURFACE PUNCH SLIDE GUIDE
- 0 HOOKS-EACH END (5 SPRINGS) SPRINGS
- G ENGAGING SURFACE (5) RESET BAIL

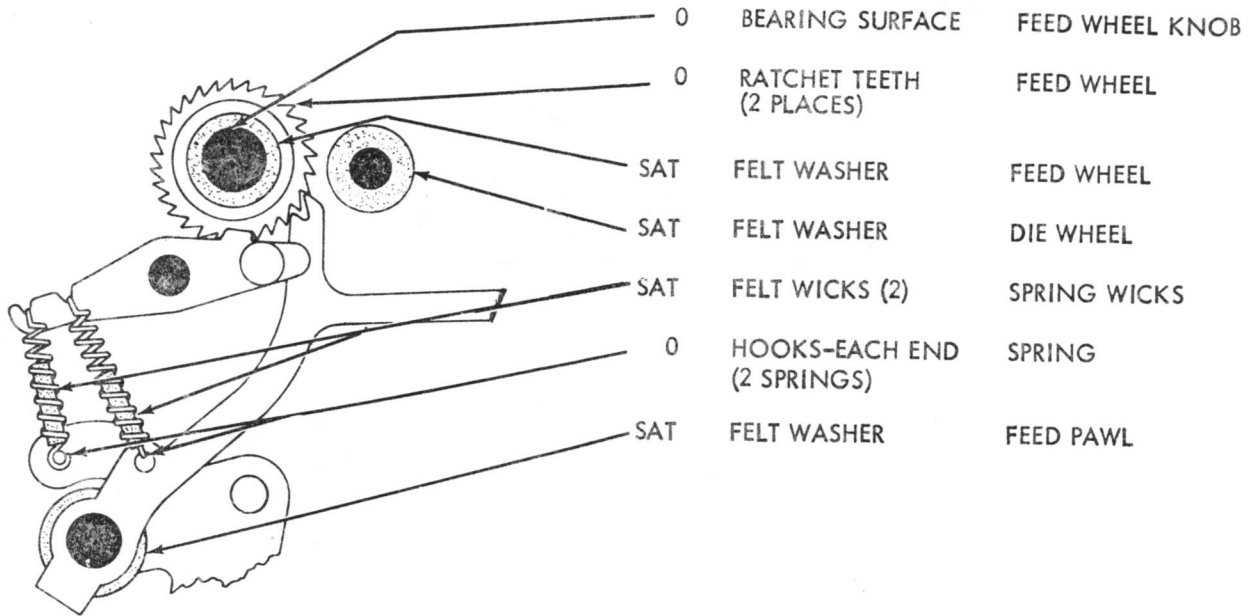
2.16 PERFORATED MECHANISM FOR FULLY PERFORATED TAPE



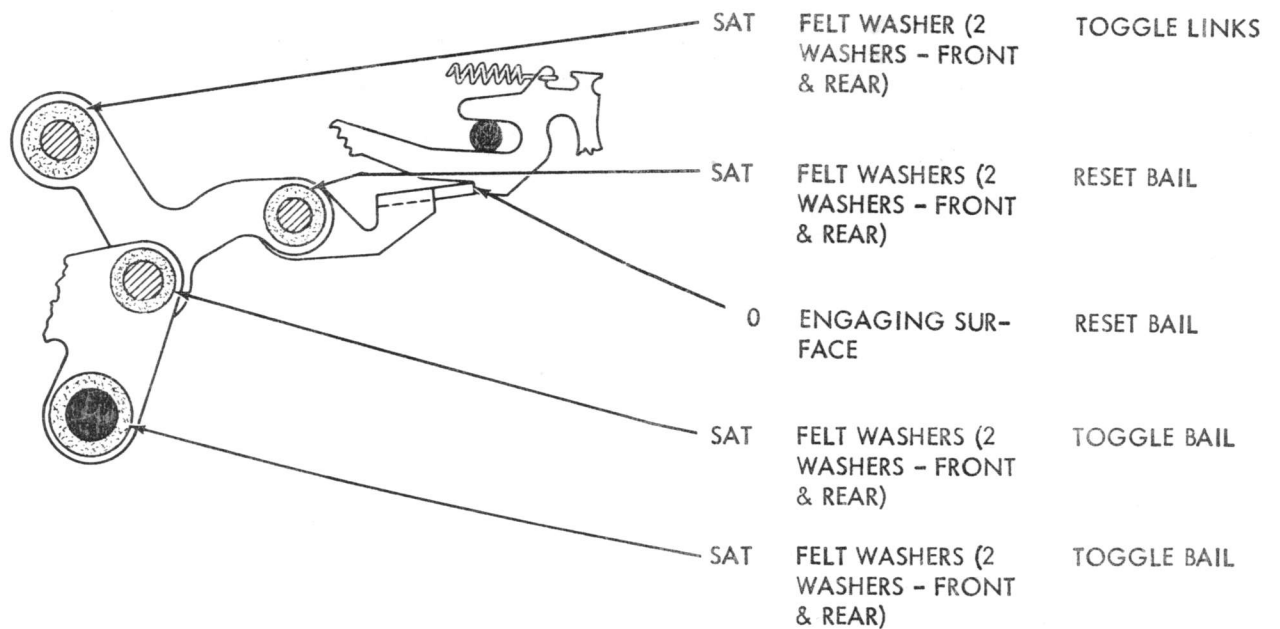
2.17 PERFORATOR MECHANISM



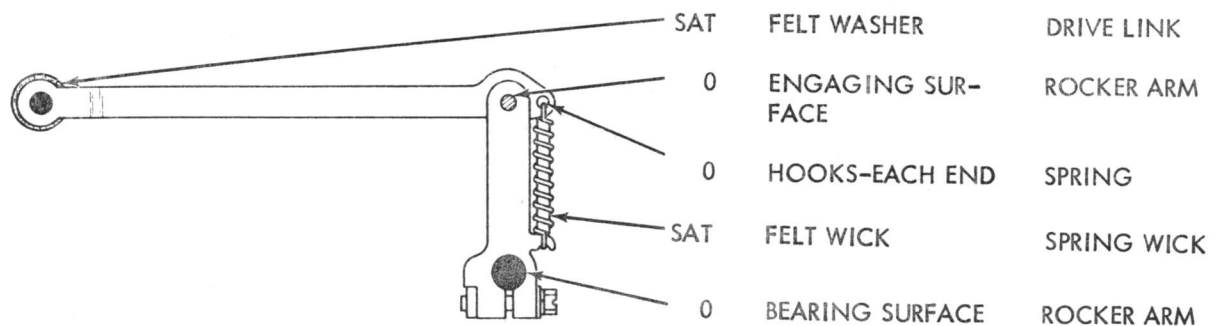
2.18 FEED WHEEL MECHANISM



2.19 RESET BAIL MECHANISM

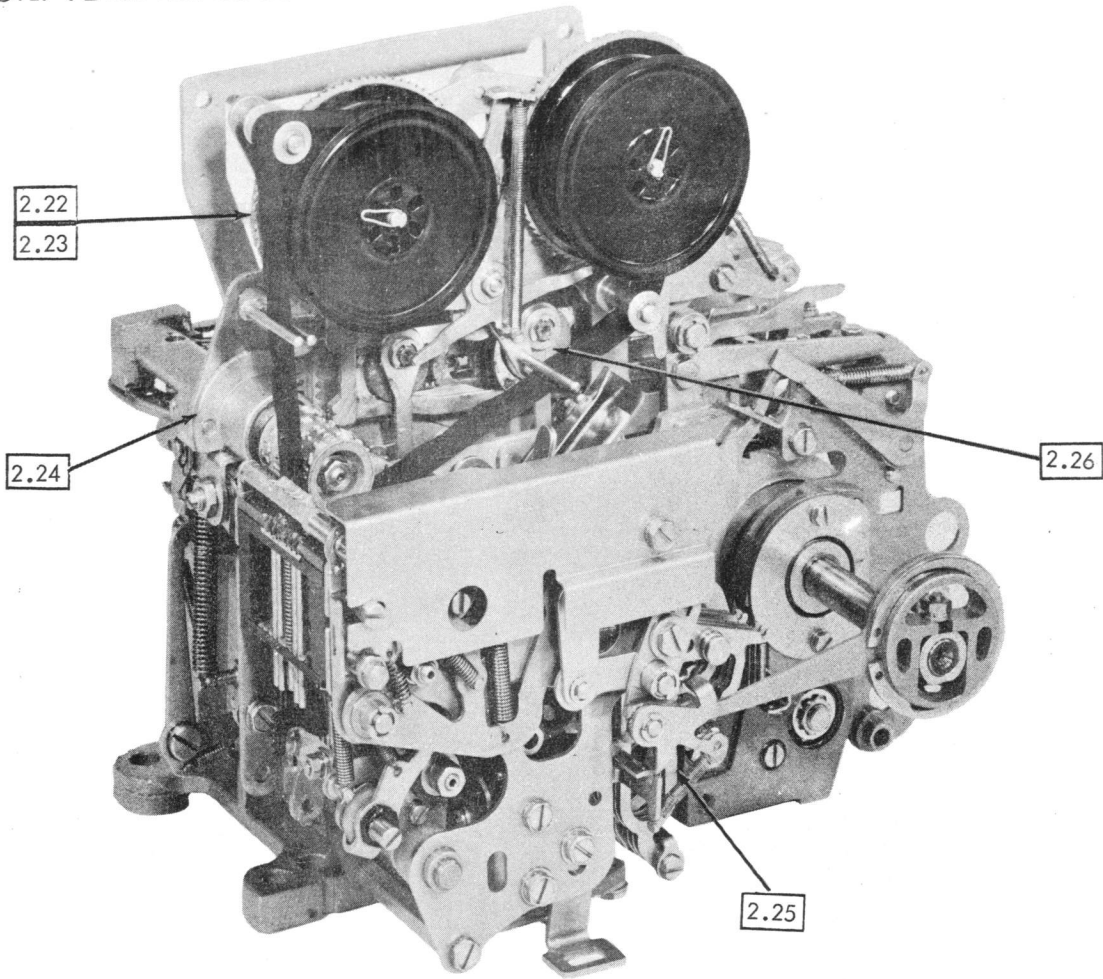


2.20 ROCKER ARM MECHANISM

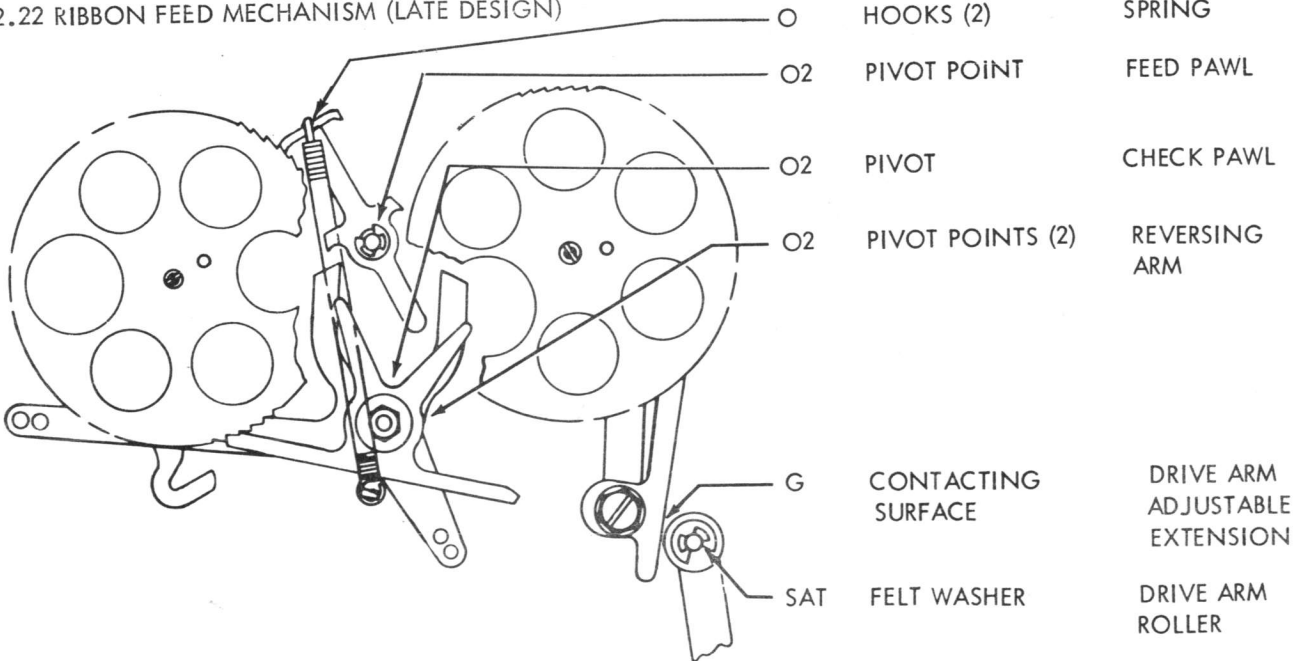


2.21 TYPING PERFORATOR

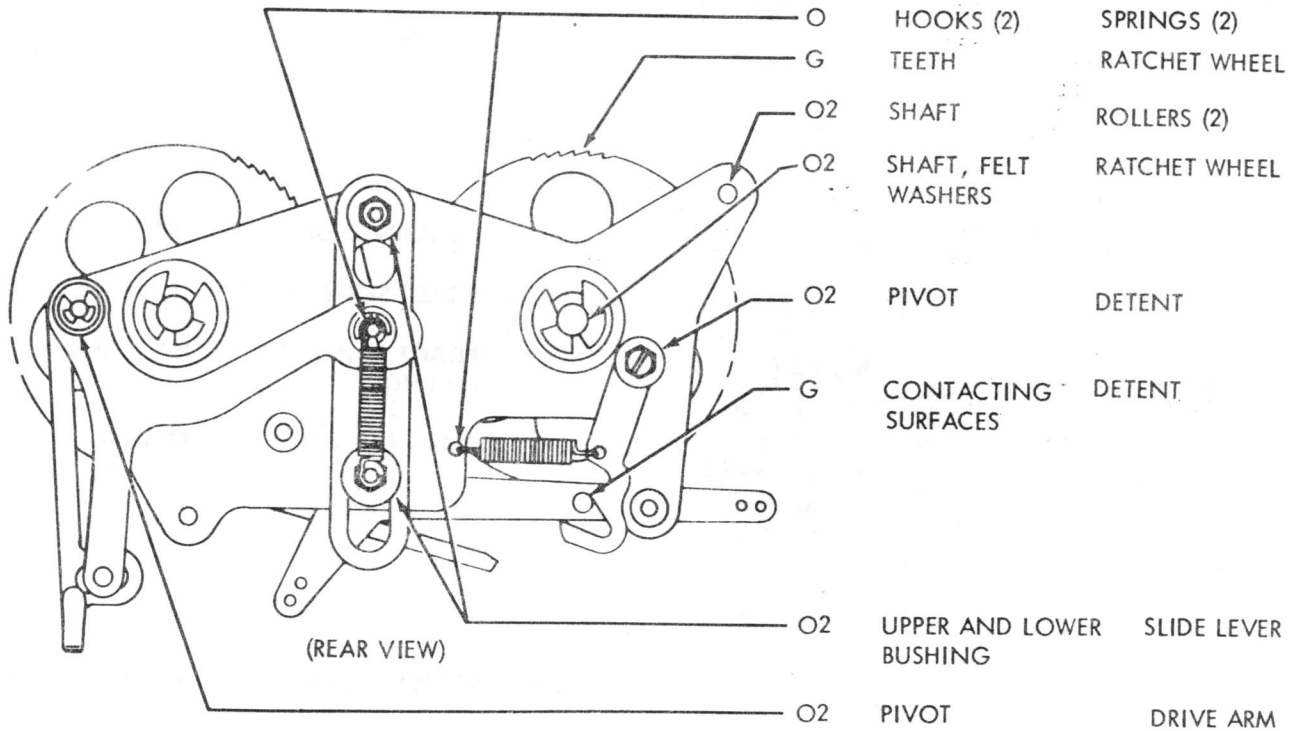
NOTE: PLACE PERFORATOR IN UPRIGHT POSITION.



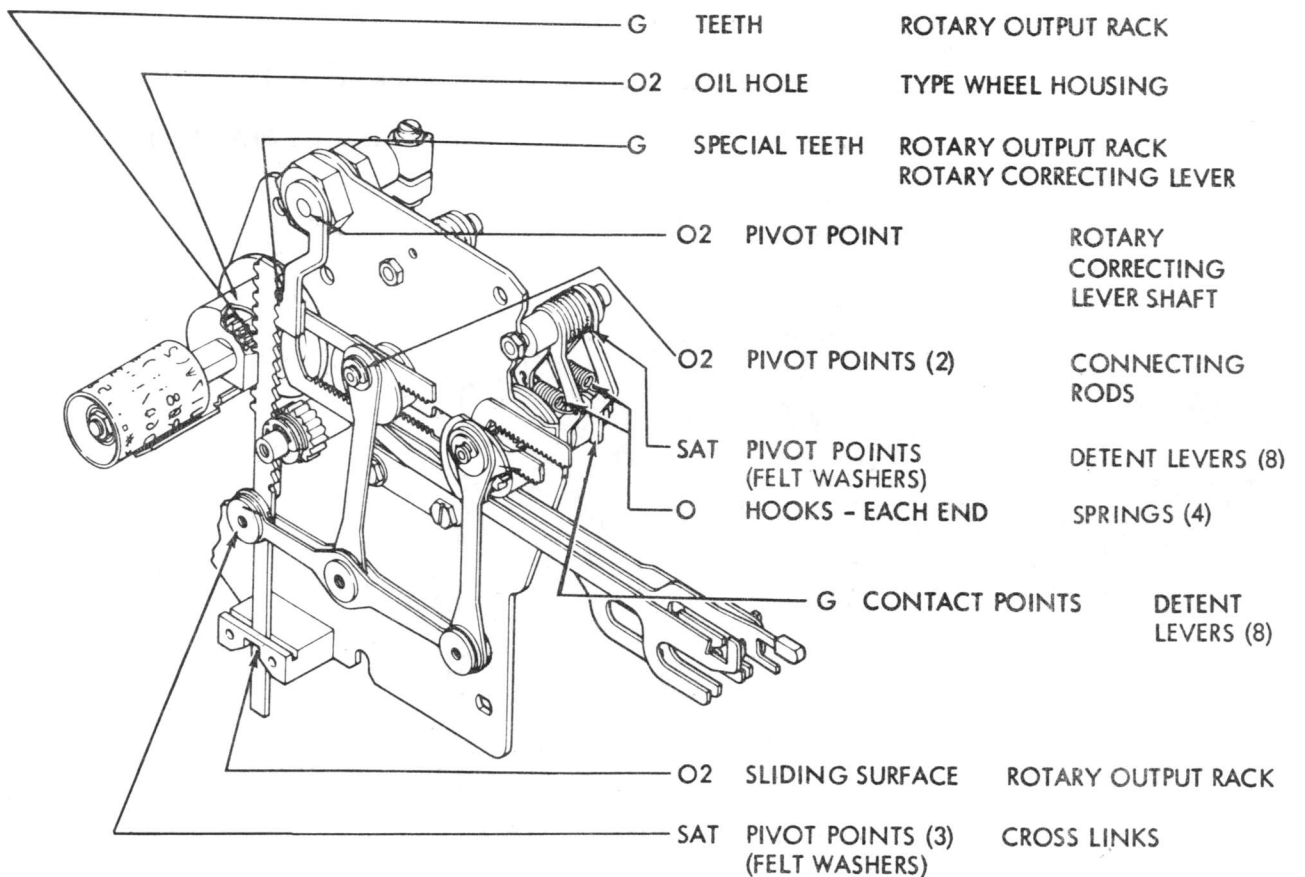
2.22 RIBBON FEED MECHANISM (LATE DESIGN)



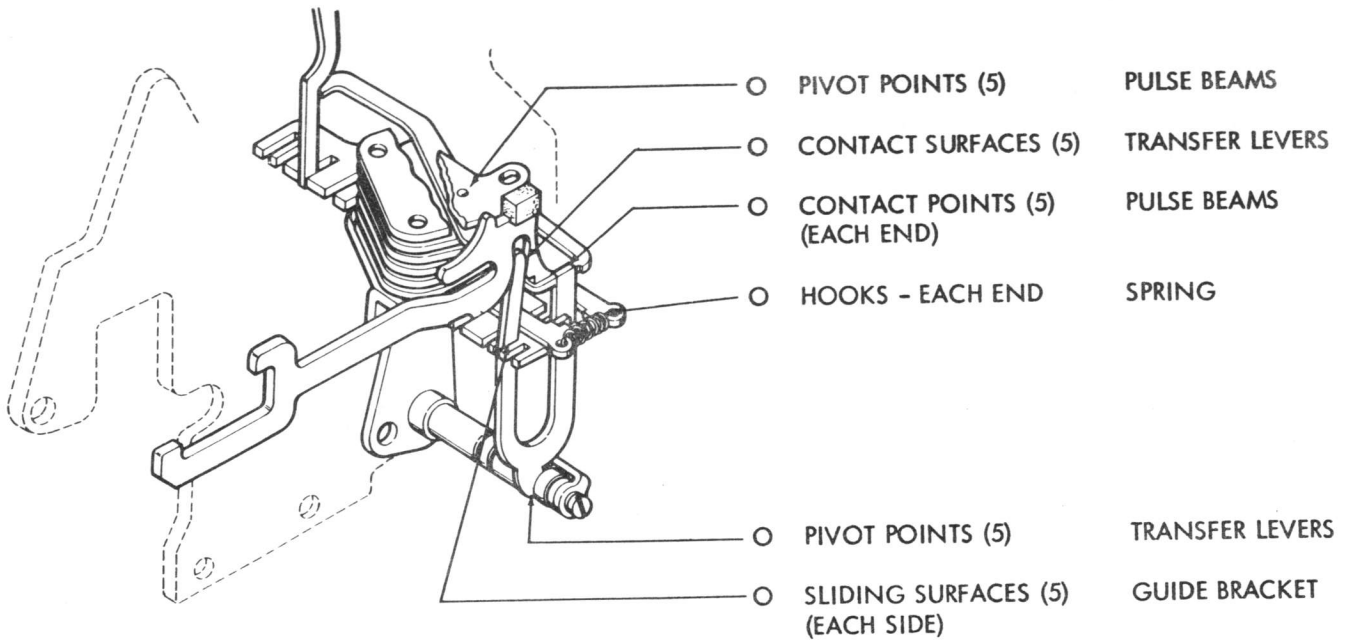
2.23 RIBBON FEED MECHANISM (LATE DESIGN)



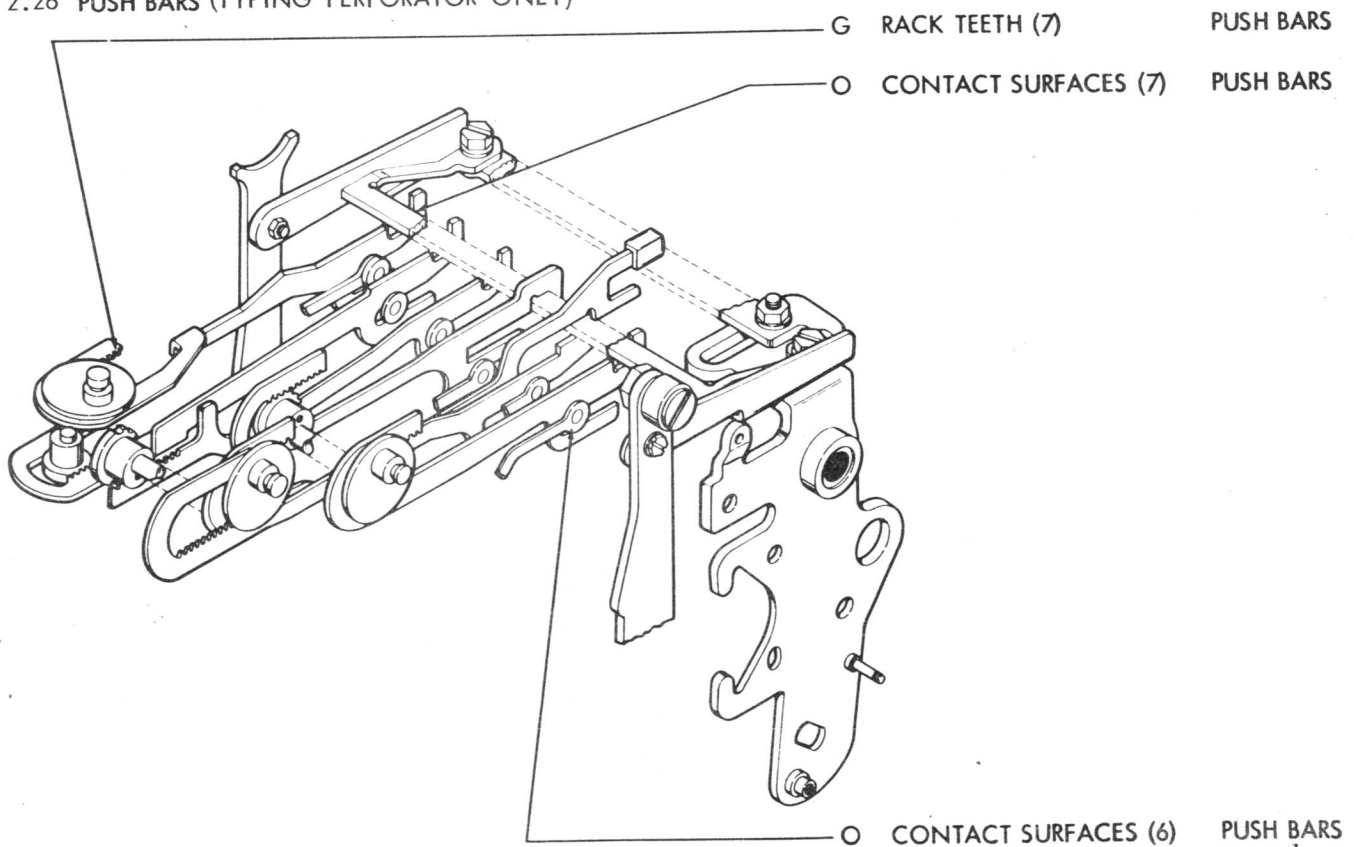
2.24 ROTARY POSITIONING MECHANISM (TYPING PERFORATOR ONLY)



2.25 TRANSFER MECHANISM (TYPING PERFORATOR ONLY)

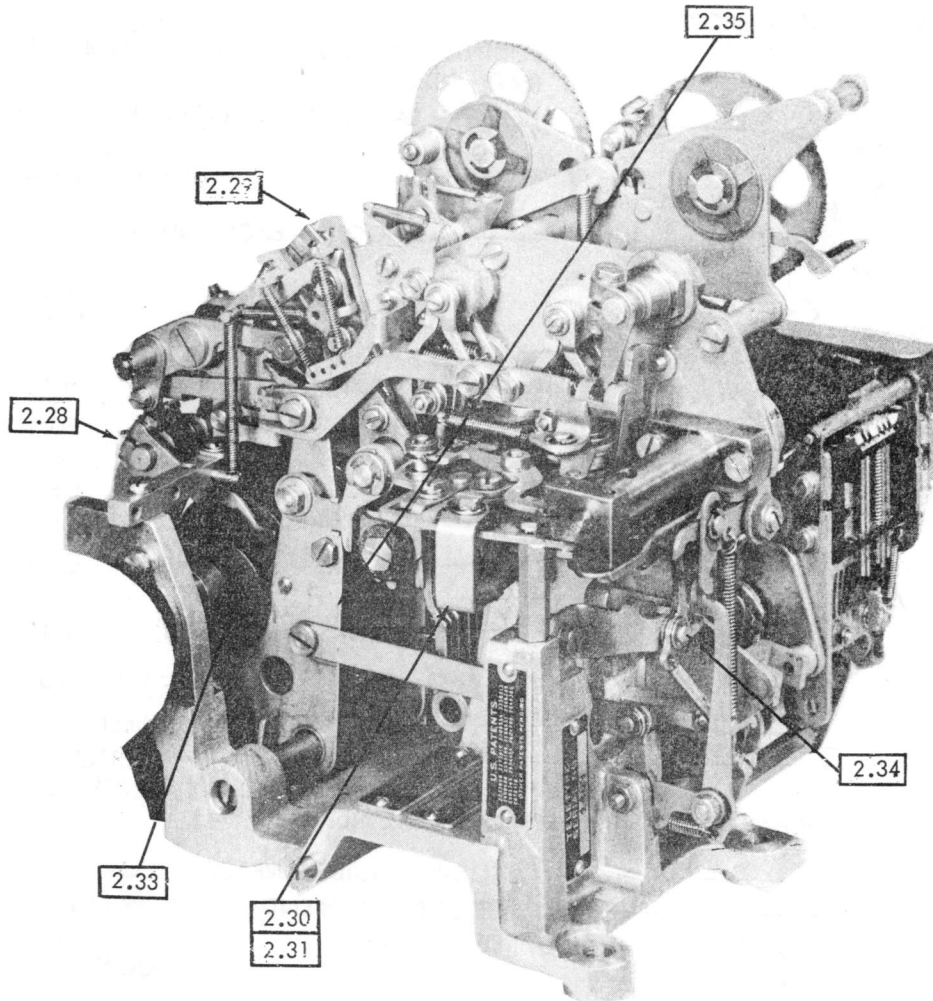


2.26 PUSH BARS (TYPING PERFORATOR ONLY)

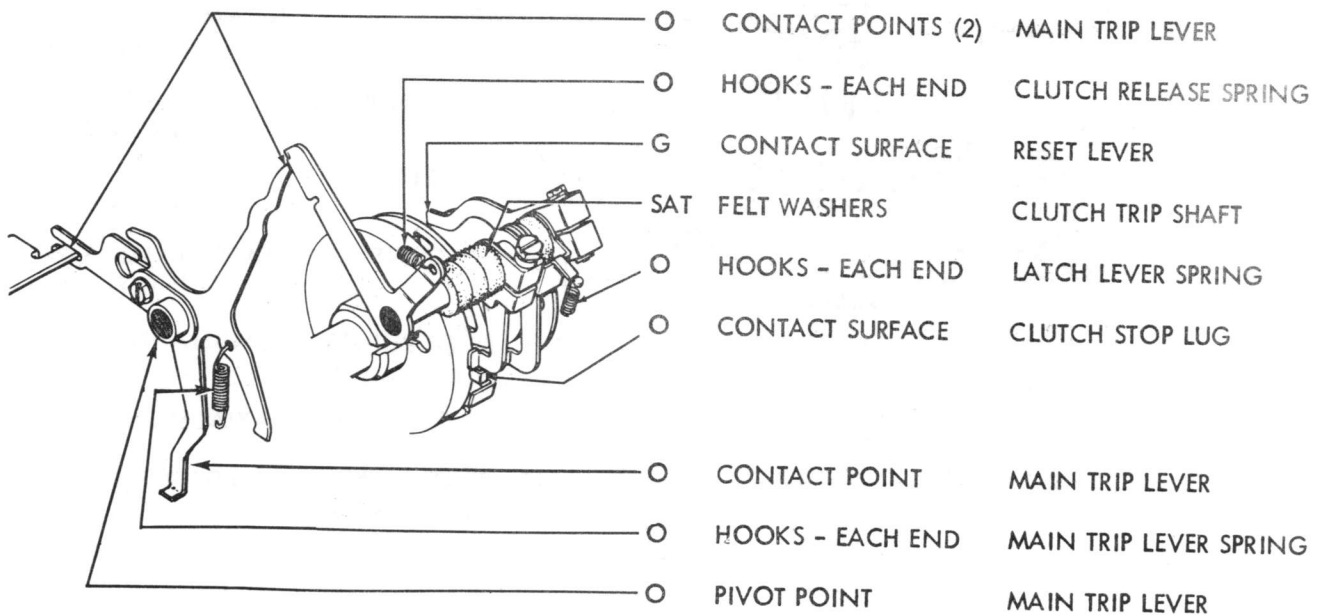


2.27 TYPING PERFORATOR

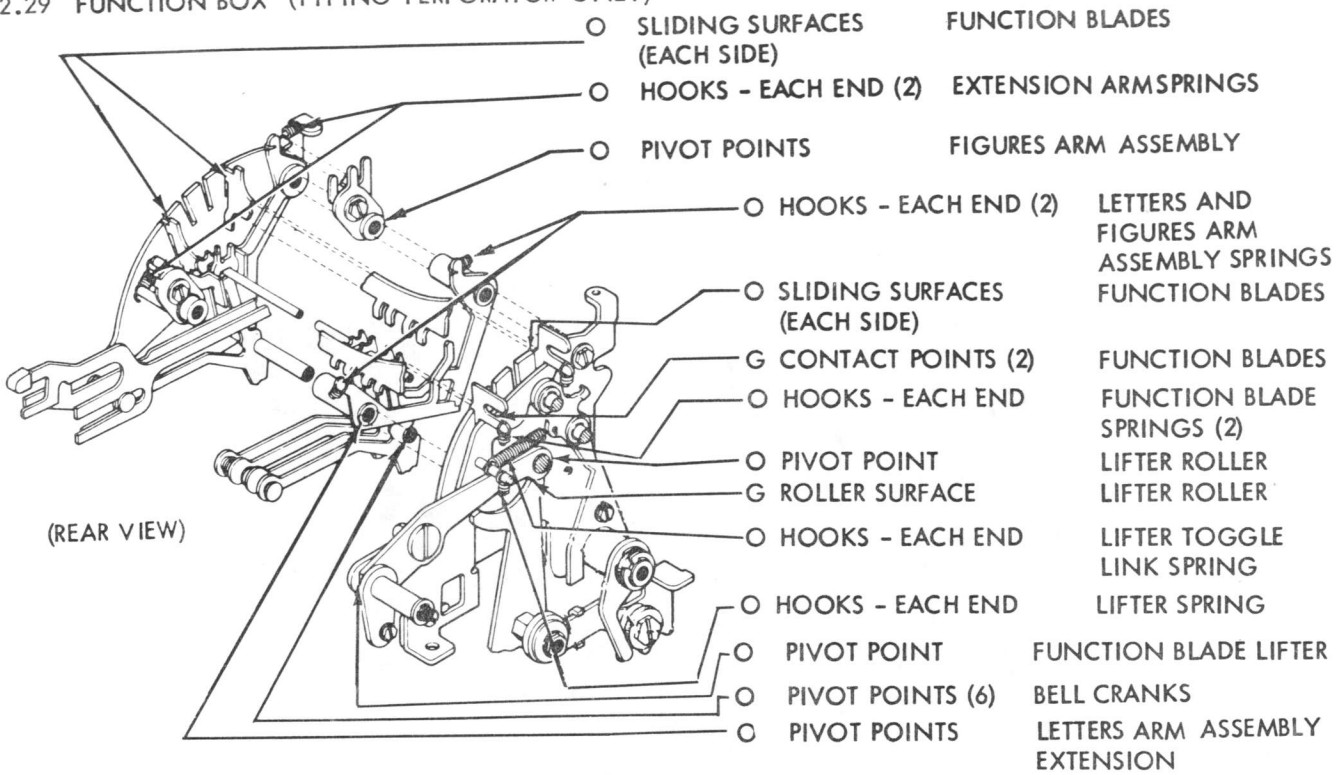
NOTE: PLACE PERFORATOR IN UPRIGHT POSITION.



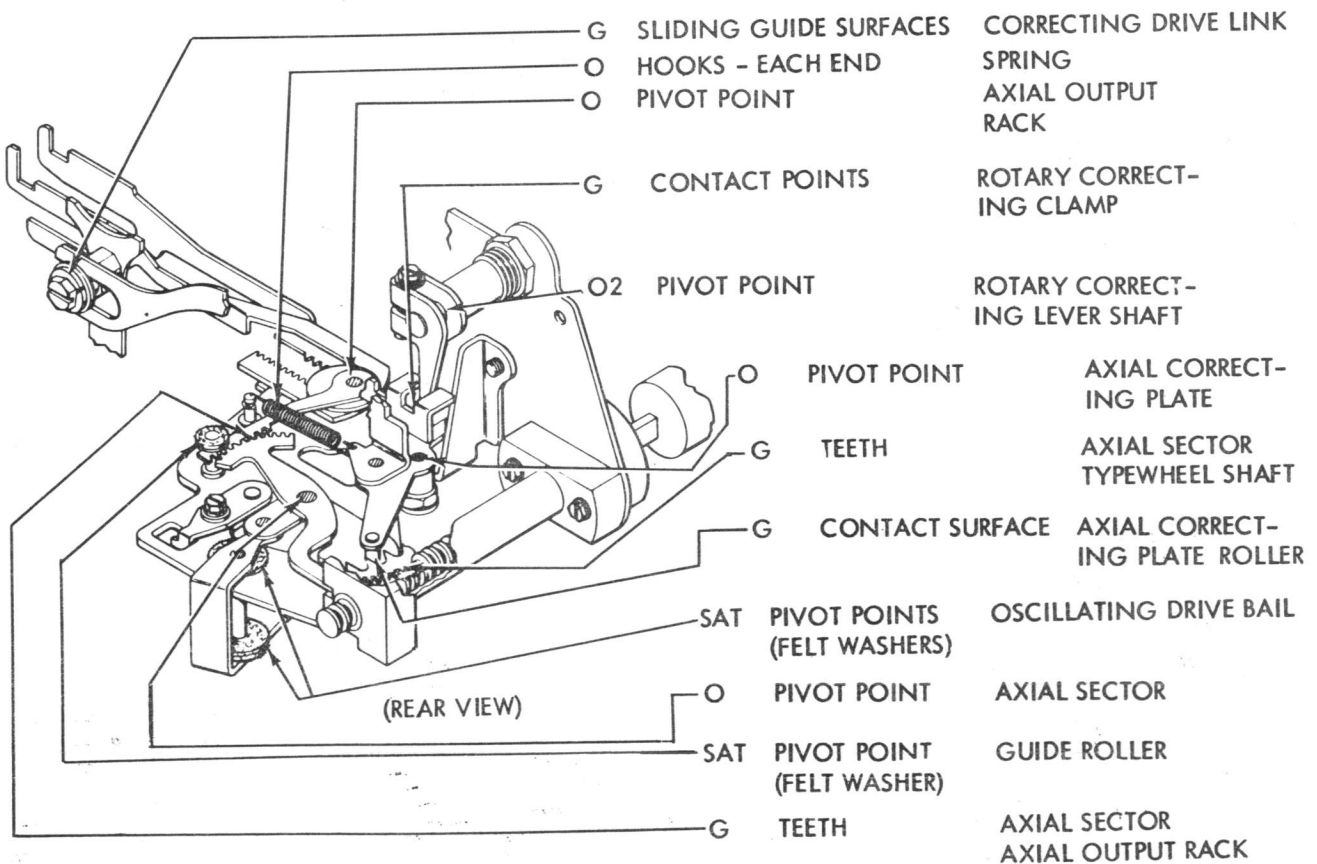
2.28 FUNCTION CAM — CLUTCH TRIP MECHANISM



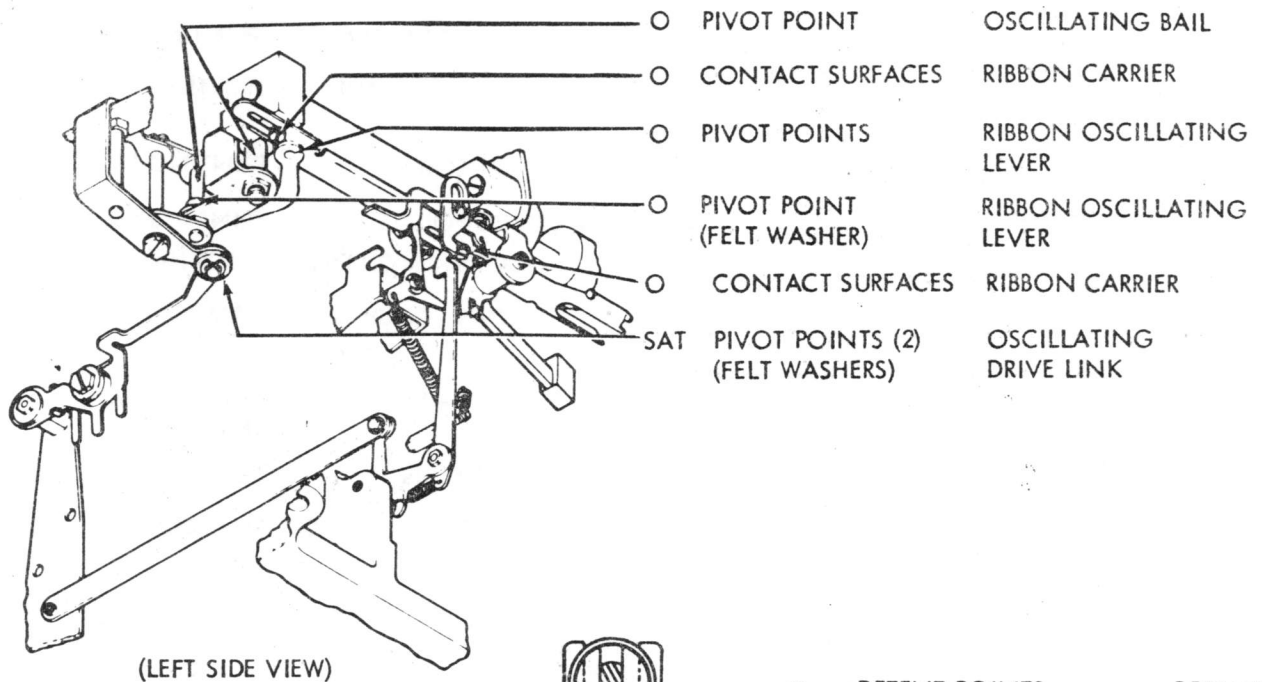
2.29 FUNCTION BOX (TYPING PERFORATOR ONLY)



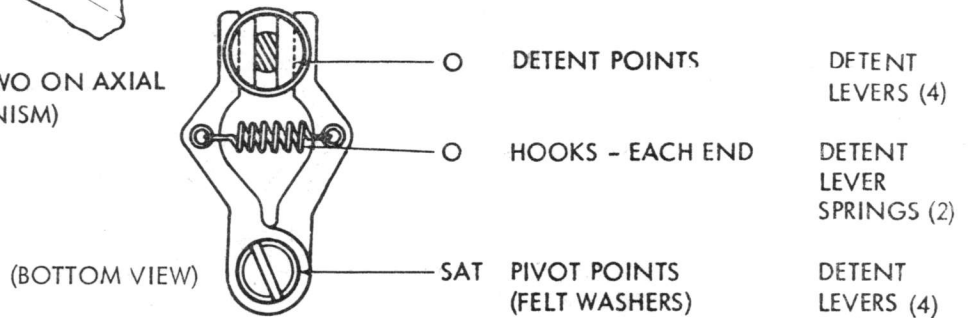
2.30 AXIAL POSITIONING MECHANISM (TYPING PERFORATOR ONLY)



2.31 AXIAL POSITIONING MECHANISM (TYPING PERFORATOR ONLY)

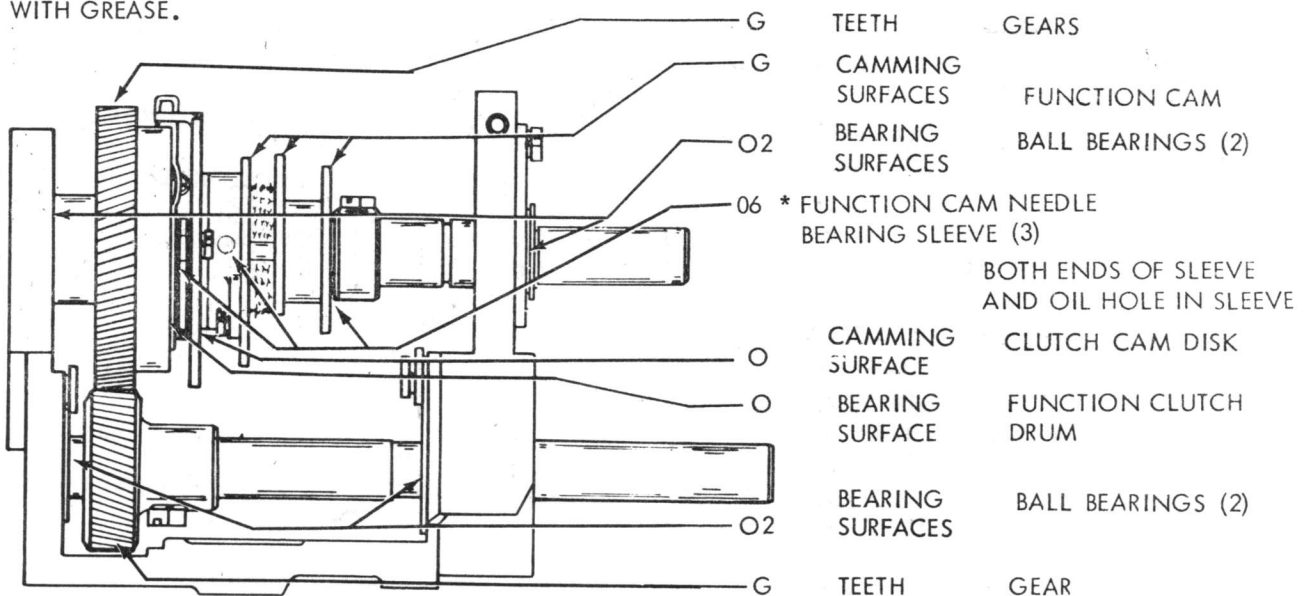


2.32 DETENT ASSEMBLIES (TWO ON AXIAL POSITIONING MECHANISM)

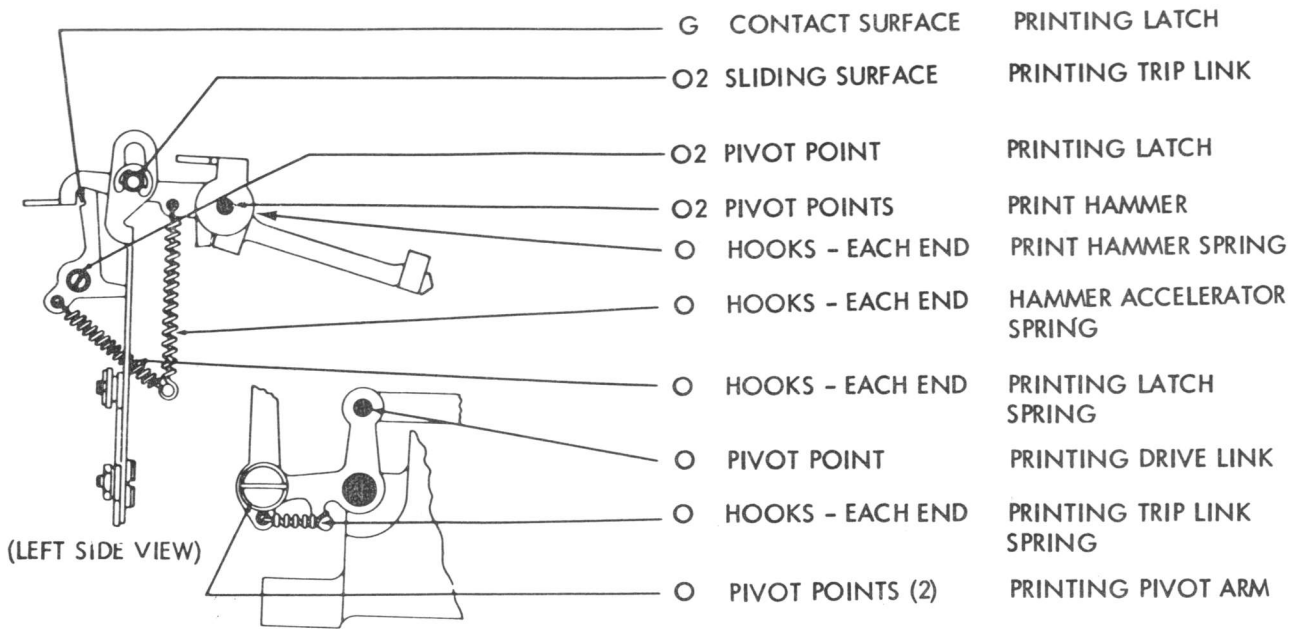


2.33 SHAFT MECHANISMS (TYPING PERFORATOR ONLY)

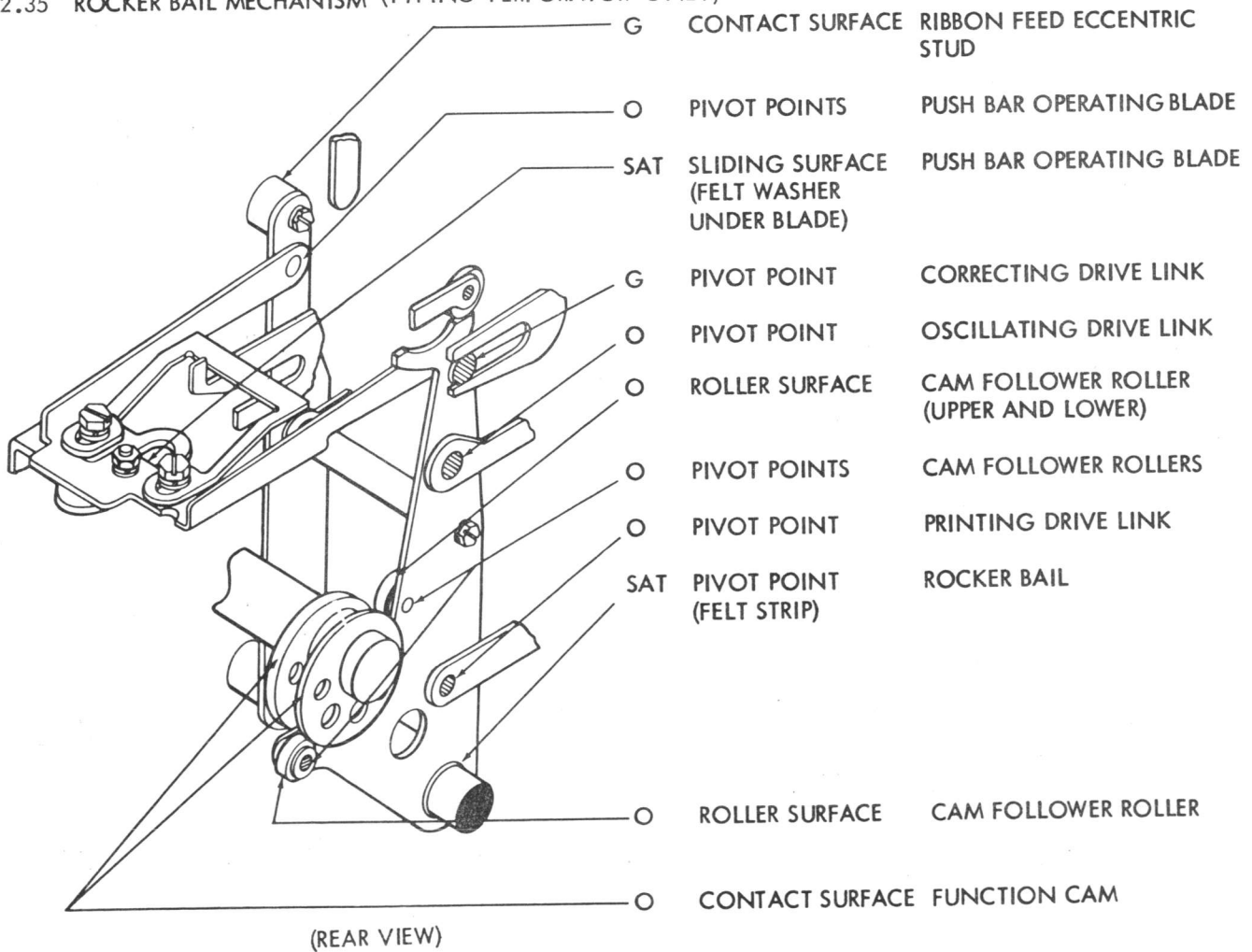
* IF FUNCTION CAM NEEDLE BEARINGS ARE DISSASSEMBLED AT ANY TIME, REPACK BEARINGS WITH GREASE.



2.34 PRINTING MECHANISM (TYPING PERFORATOR ONLY)

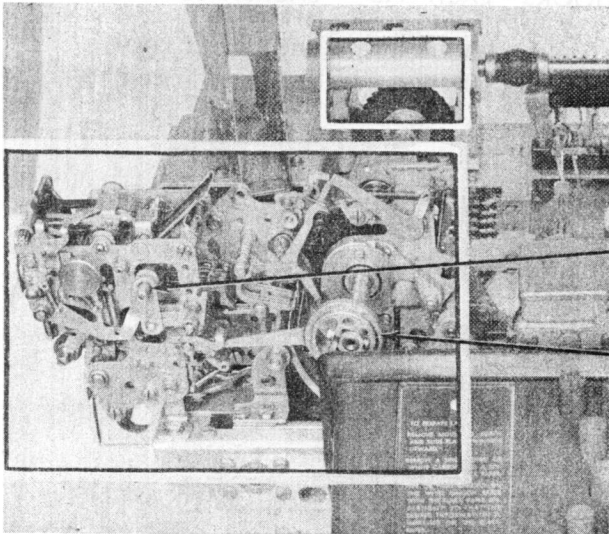


2.35 ROCKER BAIL MECHANISM (TYPING PERFORATOR ONLY)



2.36 MANUAL AND POWER DRIVE BACKSPACE MECHANISM FOR CHADLESS TAPE

NOTE: REST PERFORATOR TRANSMITTER IN UPRIGHT POSITION.

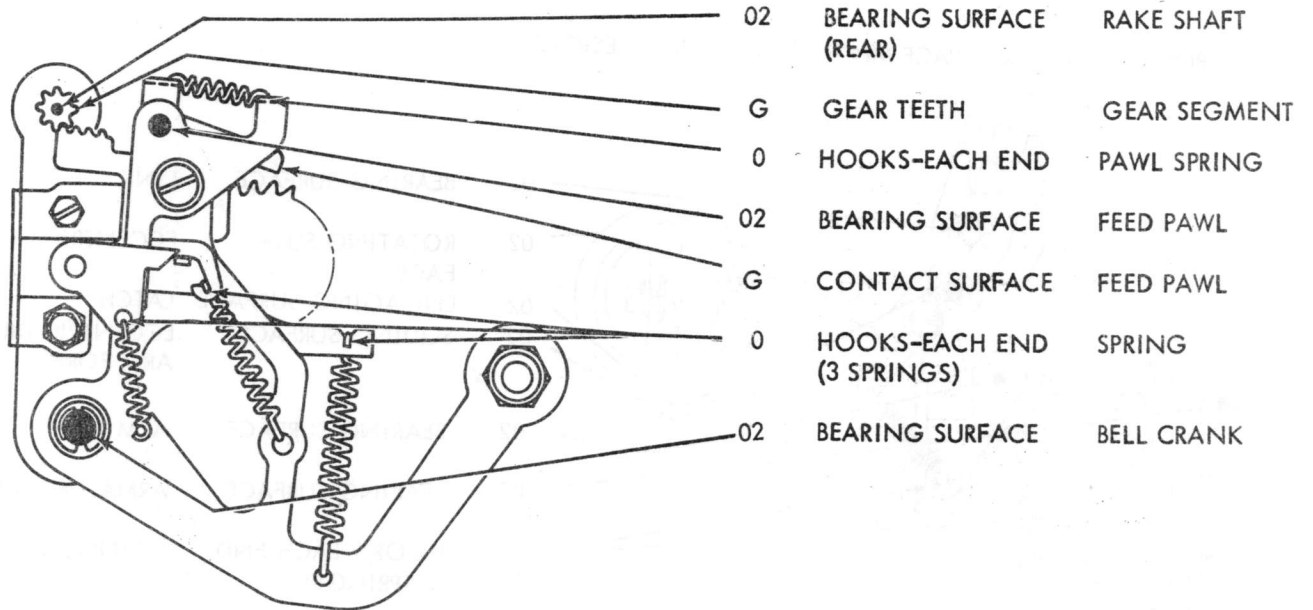


2.37

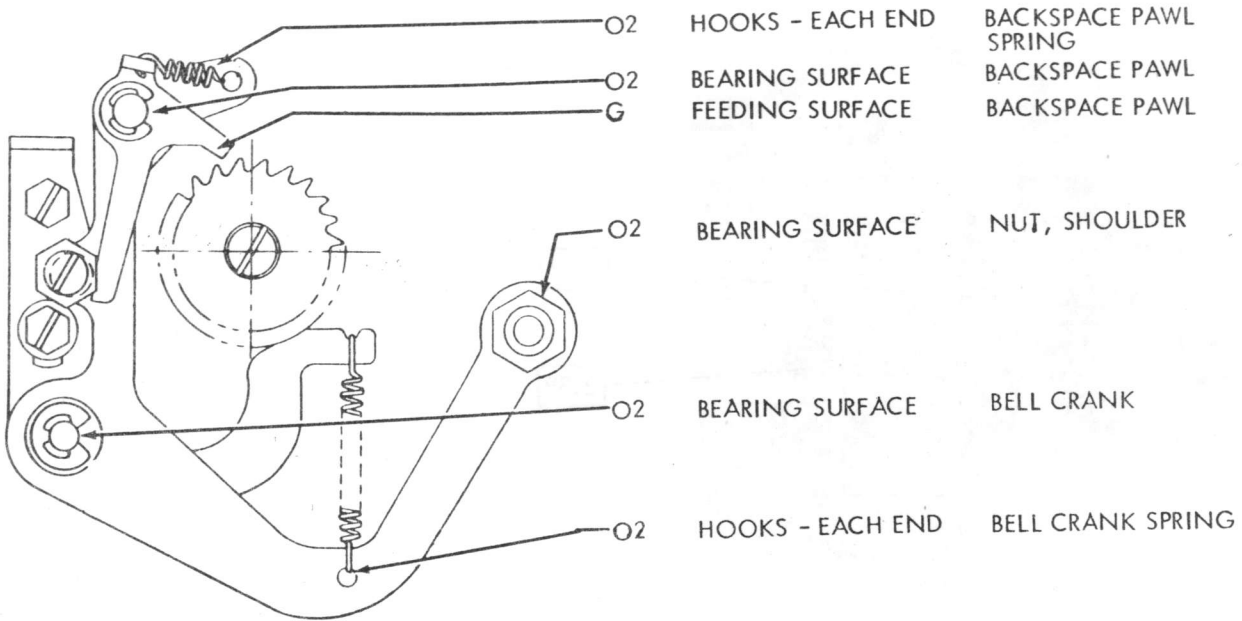
2.39

(FRONT VIEW)

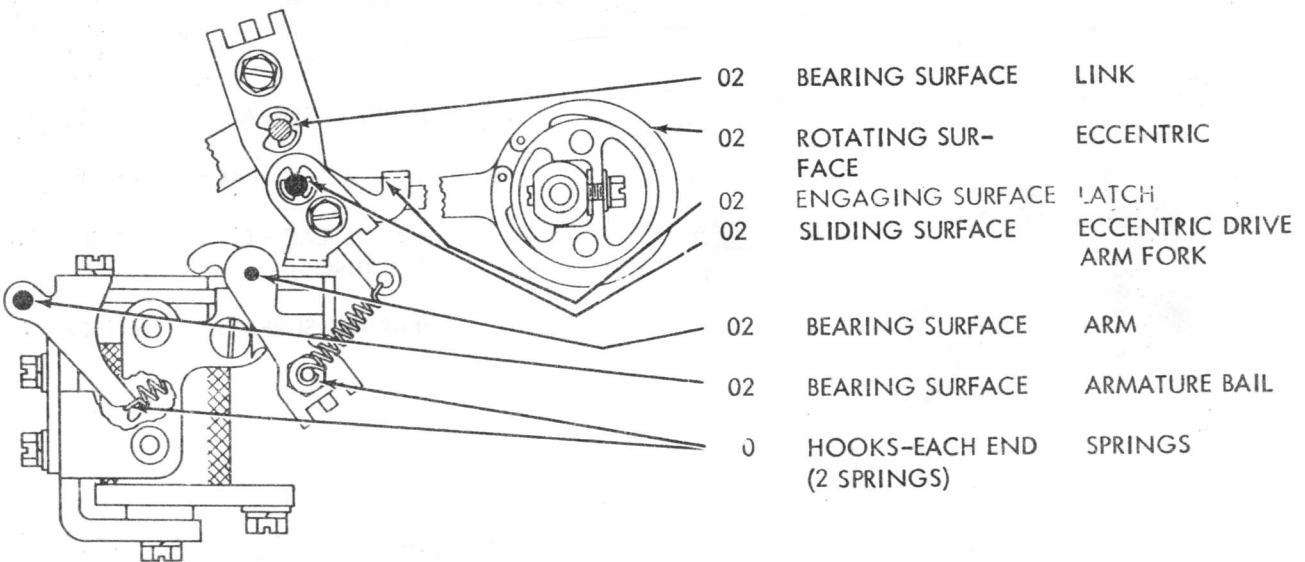
2.37 MANUAL AND POWER DRIVE BACKSPACE MECHANISM FOR CHADLESS TAPE



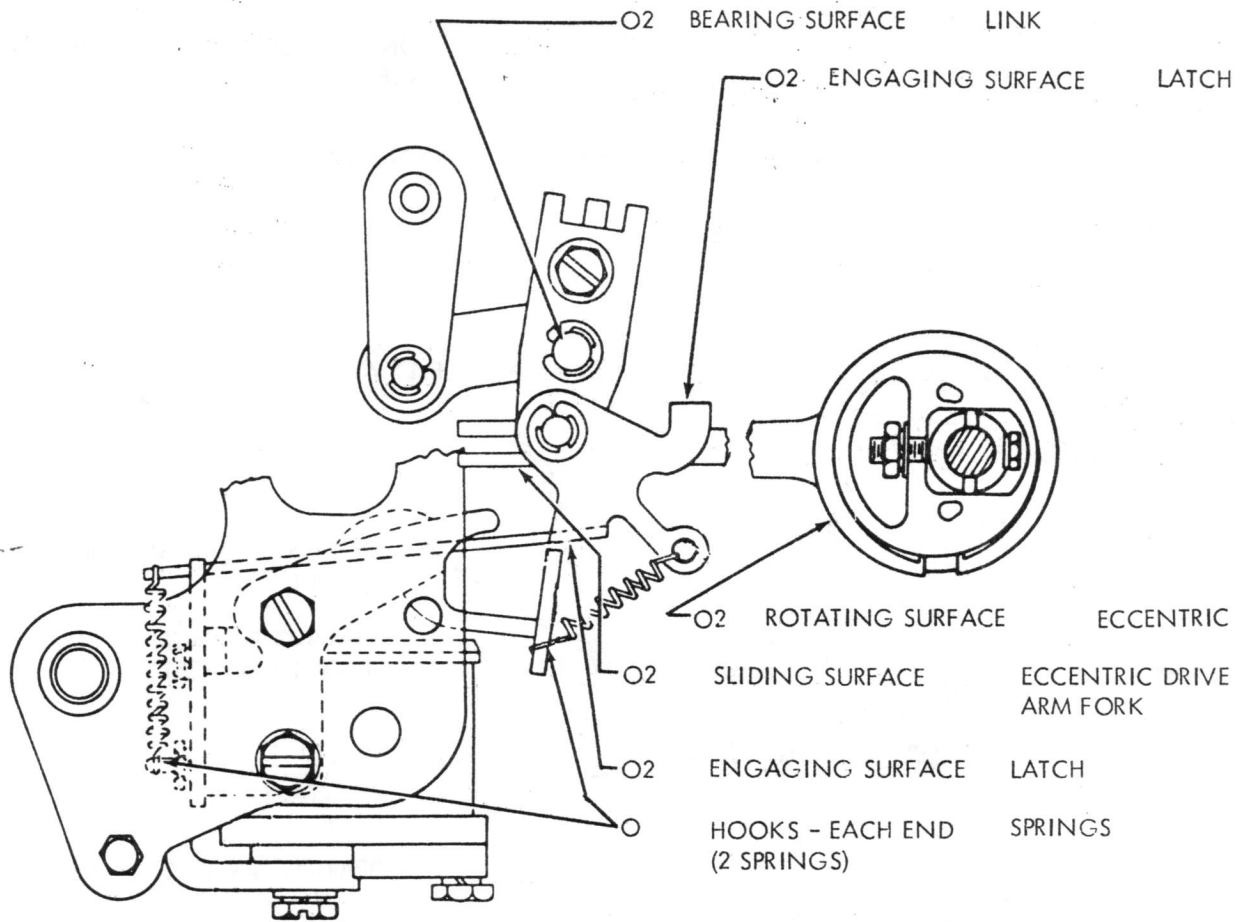
2.38 MANUAL AND POWER DRIVE BACKSPACE MECHANISM FOR FULLY PERFORATED TAPE



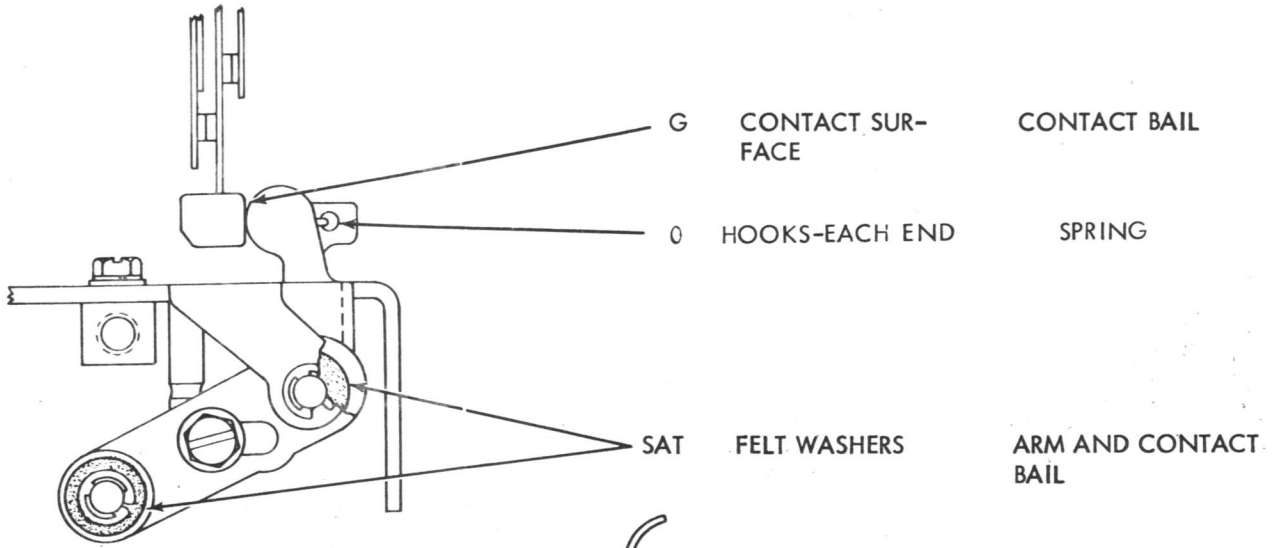
2.39 POWER DRIVE BACKSPACE MECHANISM (EARLY DESIGN)



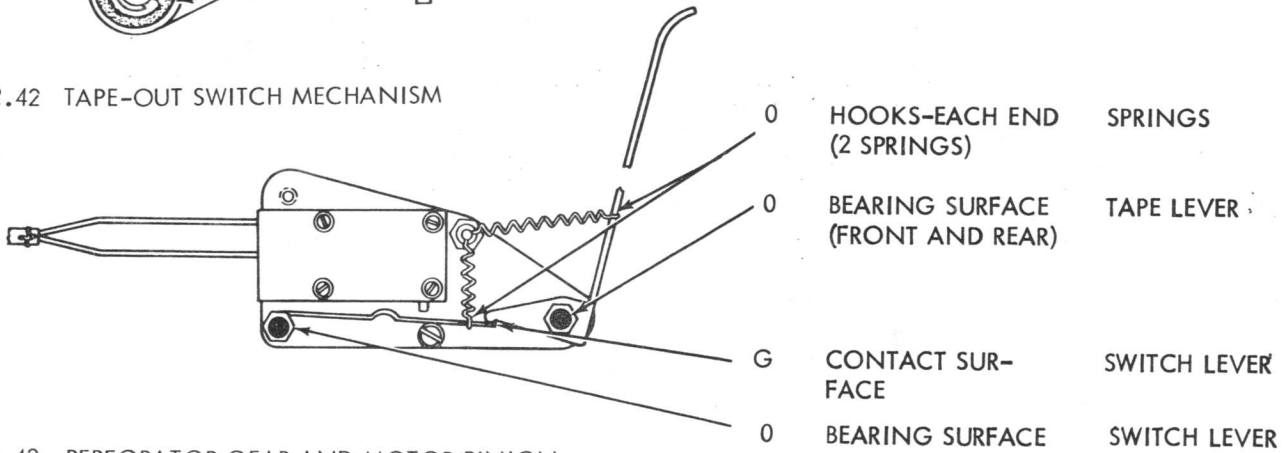
2.40 POWER DRIVE BACKSPACE MECHANISM (LATEST DESIGN)



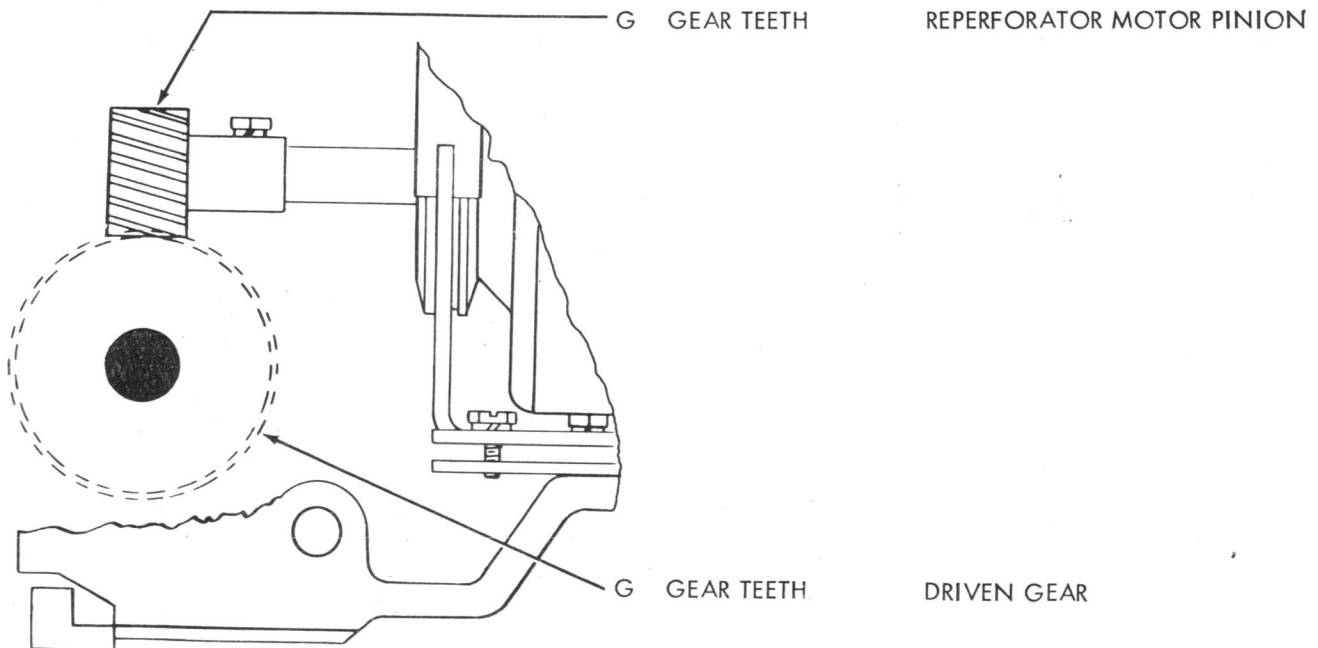
2.41 SINGLE AUXILIARY TIMING CONTACTS MECHANISM



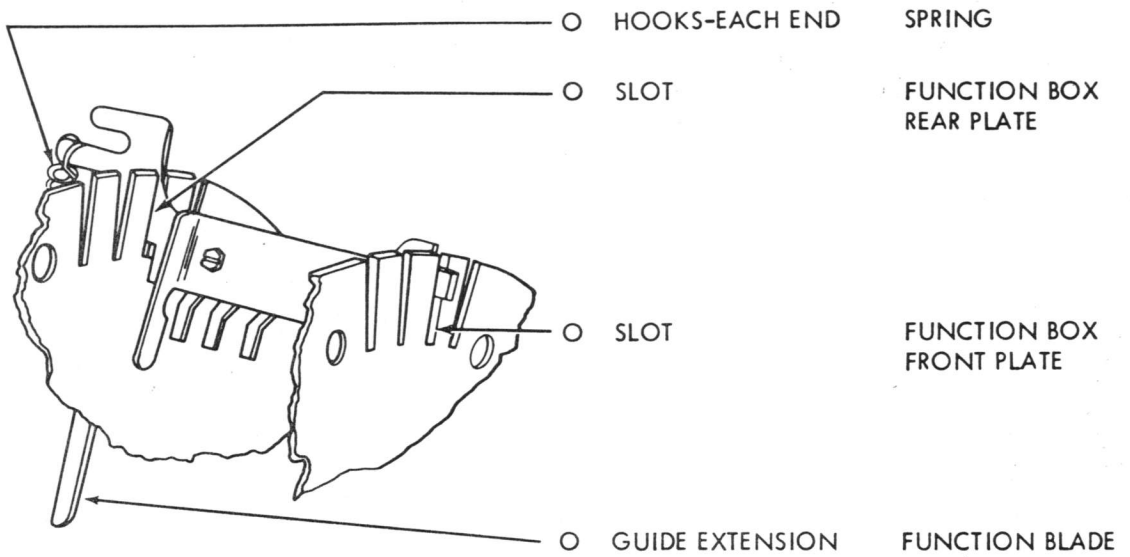
2.42 TAPE-OUT SWITCH MECHANISM



2.43 PERFORATOR GEAR AND MOTOR PINION



2.44 UNSHIFT ON SPACE MECHANISM



2.45 SIGNAL BELL CONTACT MECHANISM

