35 KEYBOARD FOR AUTOMATIC SEND-RECEIVE SETS

LUBRICATION

CONTENTS PAGE

1. GENERAL

1.01 This section is reissued to include recent engineering information and to add late 35 equipment. Changes and additions are indicated by arrows placed in the margins.

1.02 The 35 Keyboard 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 keyboard just prior to placing it 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.

Operating Speeds in Words per Minute	Lubrication Interval
60	3000 hours or 1 year*
75	2400 hours or 9 months*
100	1500 hours or 6 months*

* Whichever occurs first.

1.03 Use KS7470 oil at all locations where the use of oil is indicated. Use KS7471 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 disk.

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:

0	Apply 1 drop of oil.
02	Apply 2 drops of oil.
03	Apply 3 drops of oil.
020	Apply 20 drops of oil, etc.
G	Apply thin film of grease.
SAT	Saturate (felt oilers, washer, wicks) with oil.

Prepared for American Telephone and Telegraph Company by Teletype Corporation

Printed in U.S.A.

2. BASIC UNIT

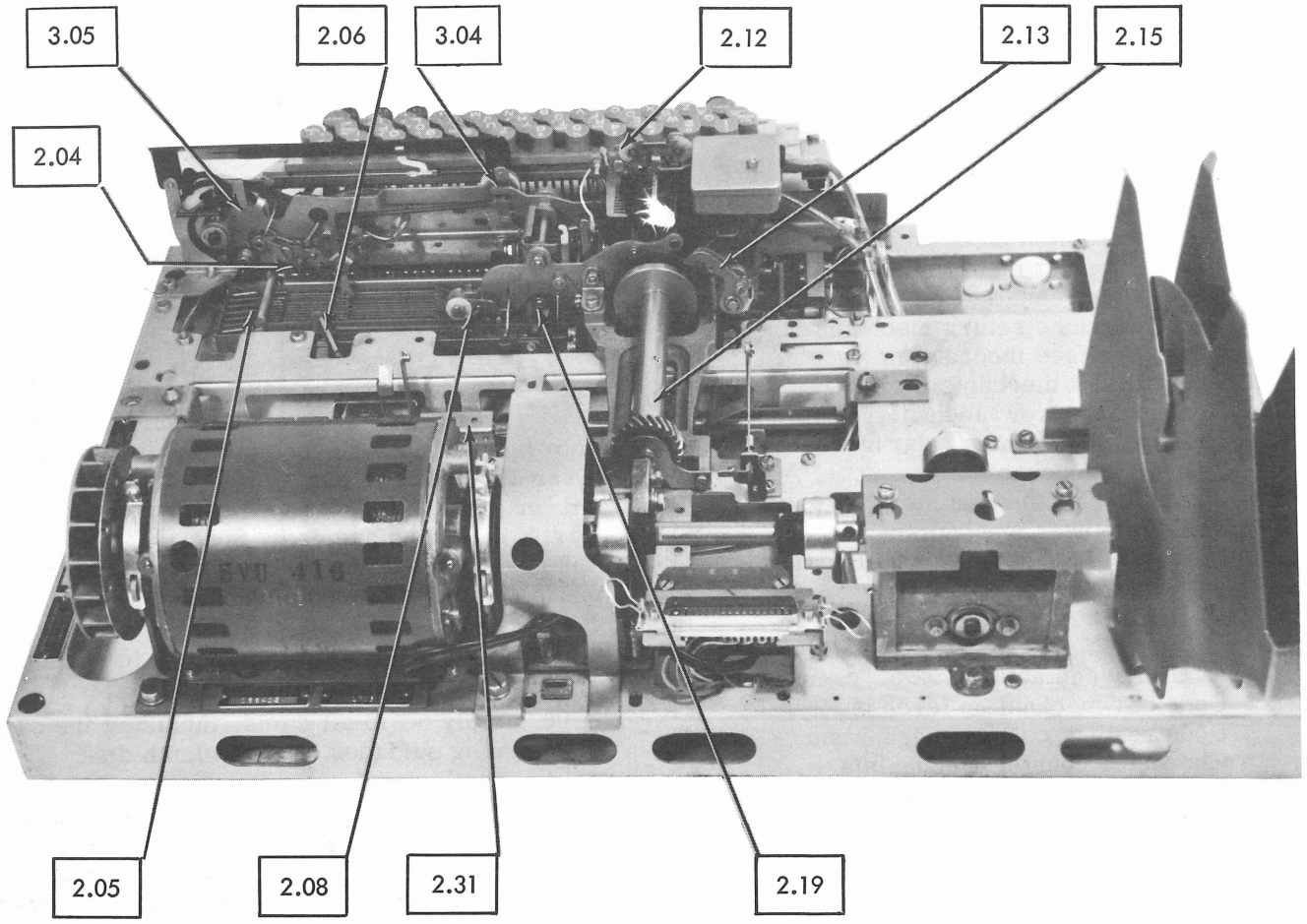


Figure 1 - Keyboard for Automatic Send-Receive Sets (Rear View)

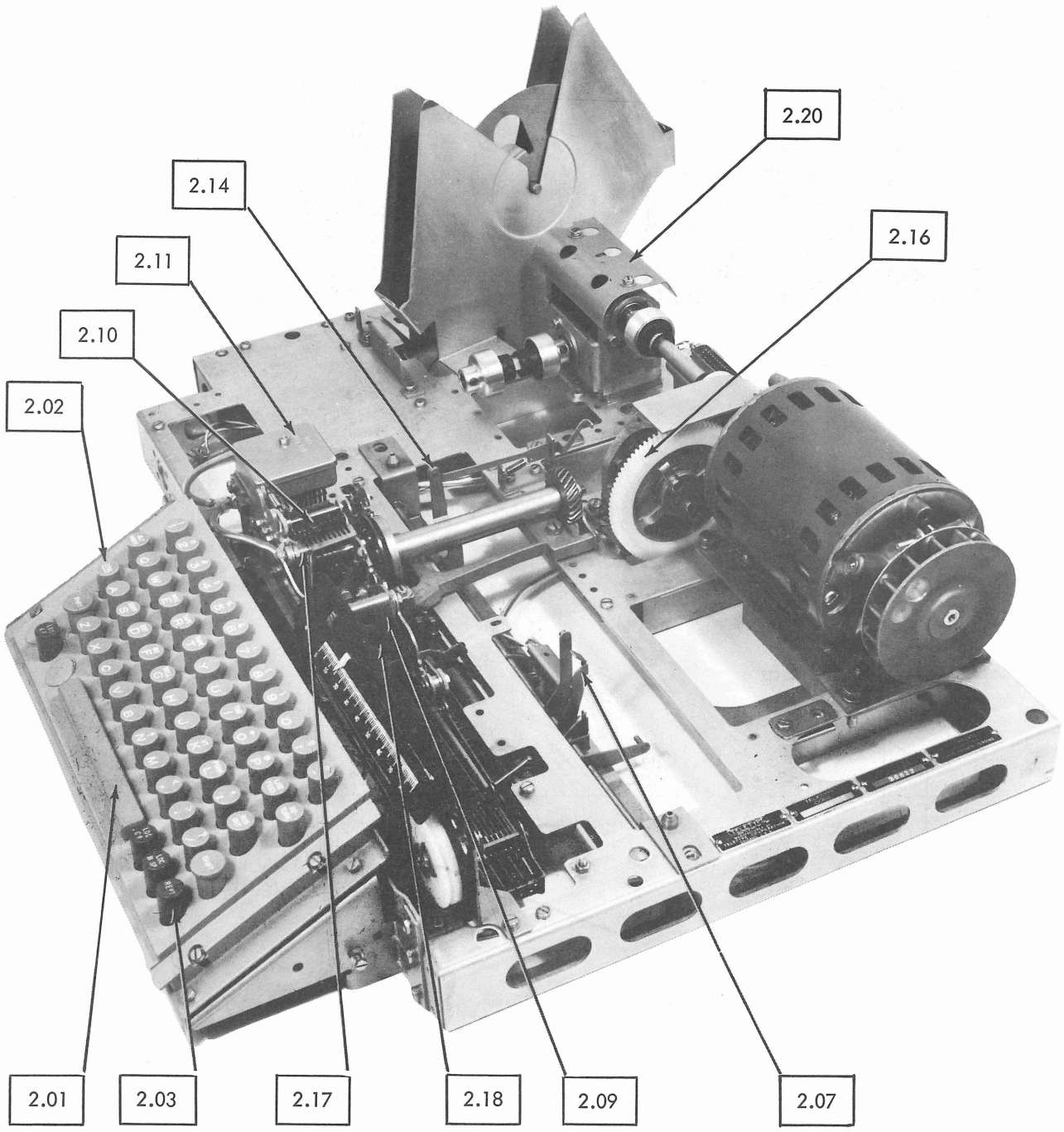
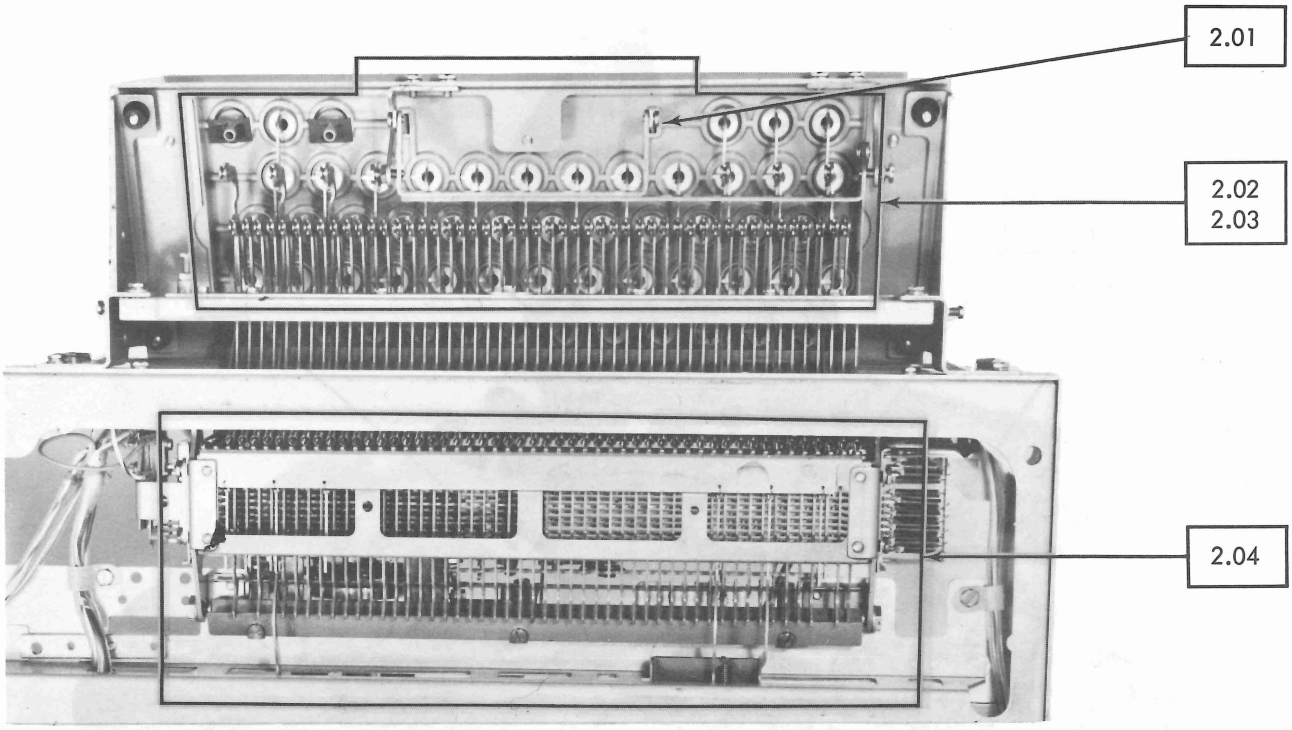
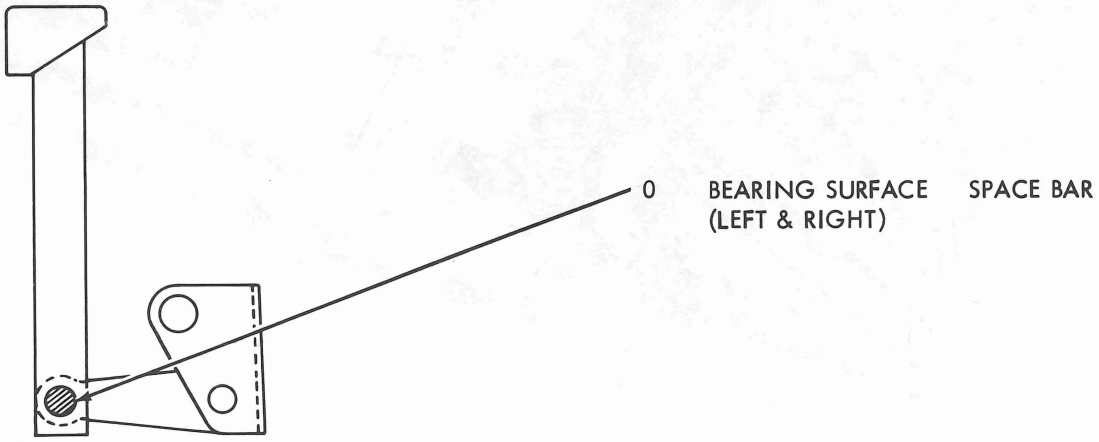


Figure 2 - Keyboard for Automatic Send-Receive Sets (Front View)

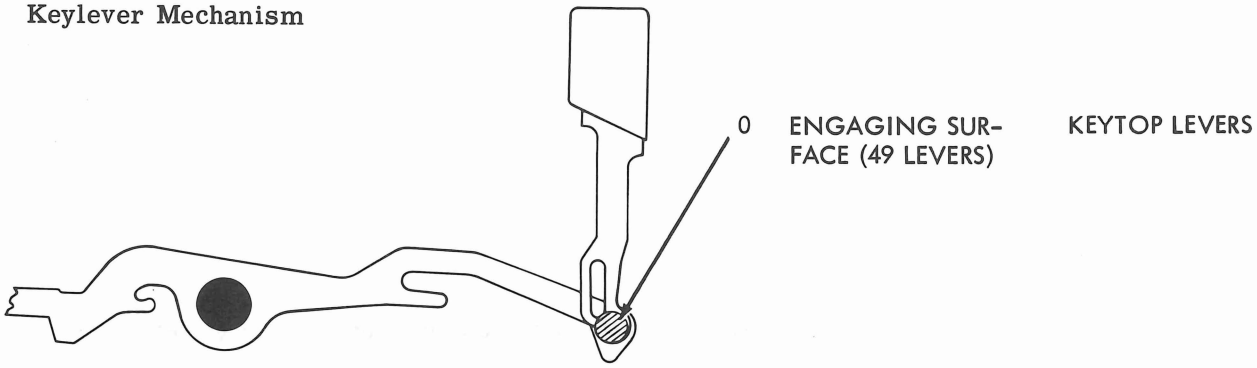
REST KEYBOARD BOTTOM UP



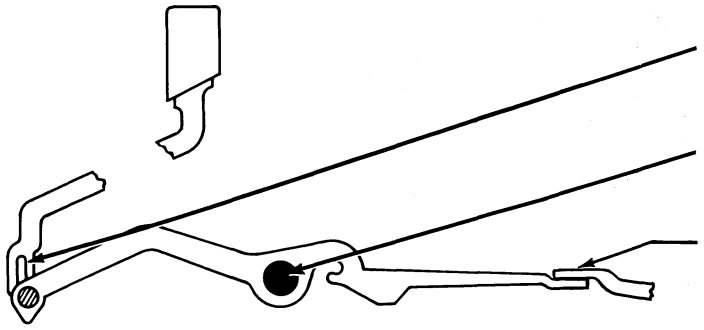
2.01 Space Bar Mechanism



2.02 Keylever Mechanism

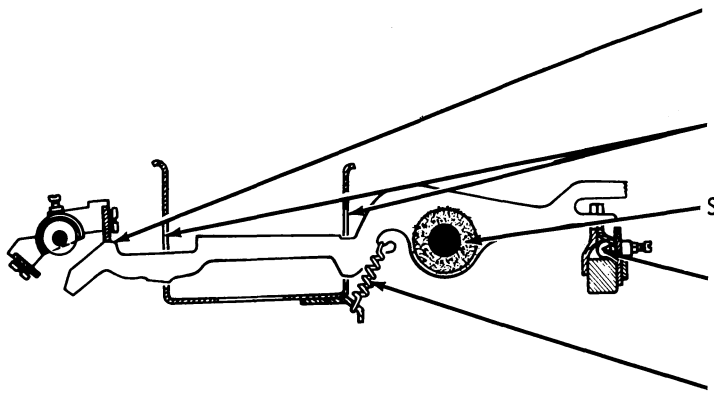


2.03 Function Lever Mechanism



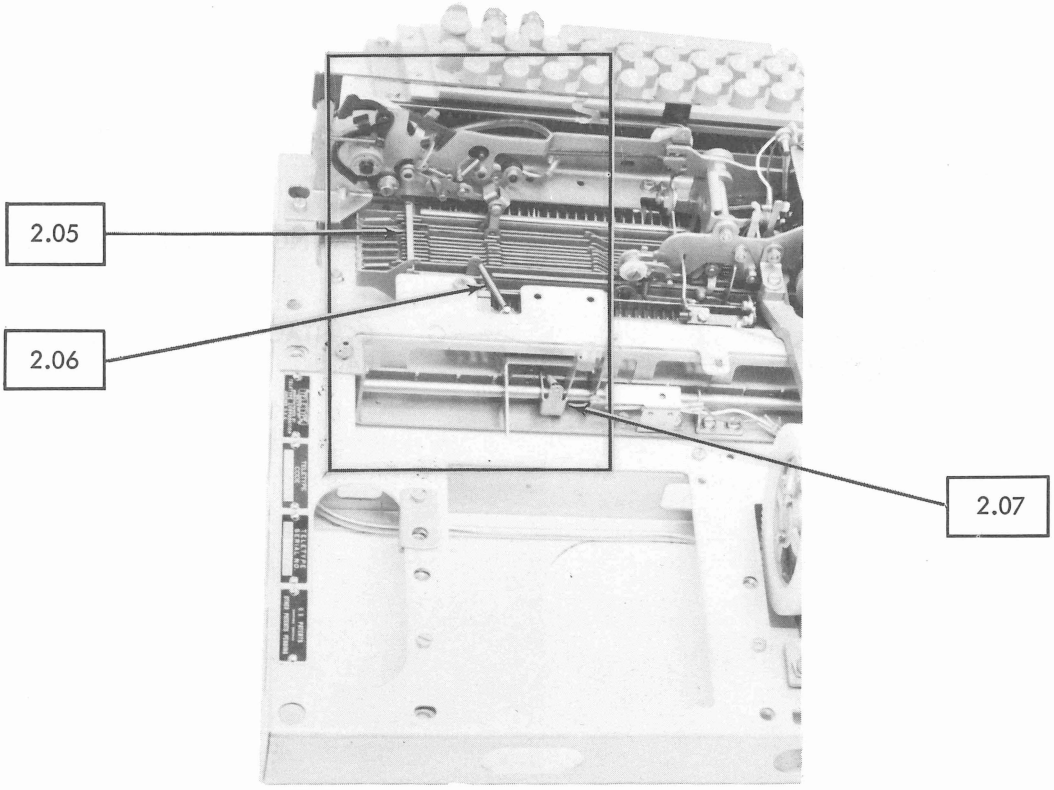
0	ENGAGING SURFACE	FUNCTION KEYLEVER
0	BEARING SURFACE	FUNCTION LEVER
G	CONTACT SURFACE	FUNCTION LEVER

2.04 Code Lever Mechanism

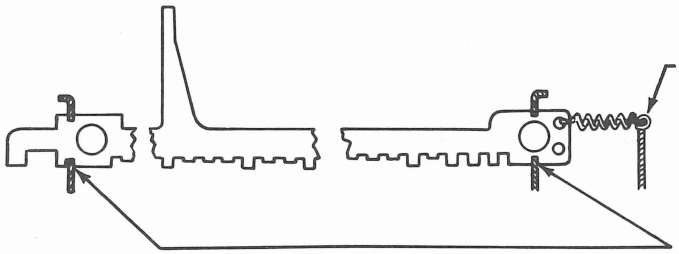


G	CONTACTING SURFACE (47 LEVERS)	CODE LEVER UNIVERSAL BAIL
0	GUIDE SLOTS (53 LEVERS)	CODE LEVERS
SAT	FELT WASHERS (8 WASHERS)	CODE LEVER SHAFT
0	BEARING SURFACES (47 WEDGES)	LOCK BALL TRACK
0	HOOKS-EACH END (50 SPRINGS)	SPRING

REST KEYBOARD IN UPRIGHT POSITION

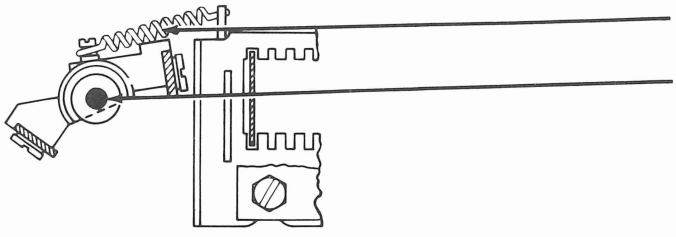


2.05 Code Bar Mechanism



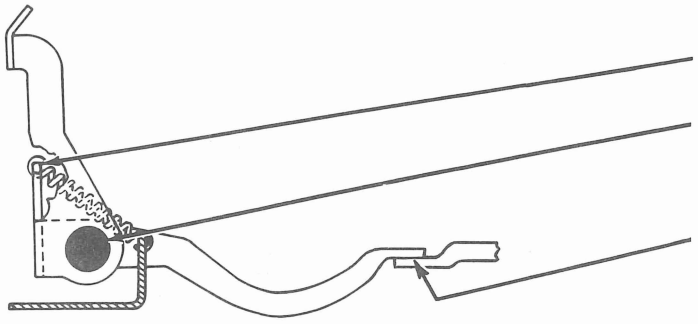
0	HOOKS-EACH END (12 SPRINGS)	SPRING
0	GUIDE SLOTS (LEFT AND RIGHT-TOP AND BOTTOM)	CODE BAR GUIDES

2.06 Code Lever Universal Bail Mechanism



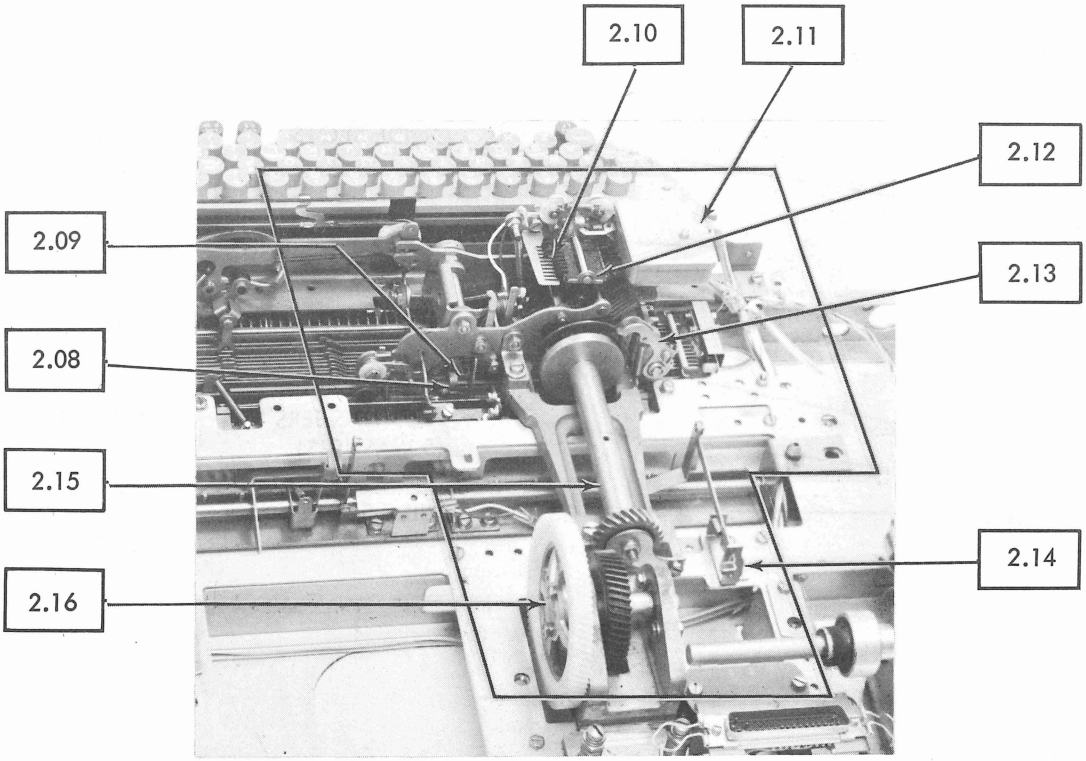
0	HOOKS-EACH END	SPRING
02	BEARING SURFACE (BOTH ENDS)	CODE LEVER UNIVERSAL BAIL

2.07 Local Carriage Return Mechanism

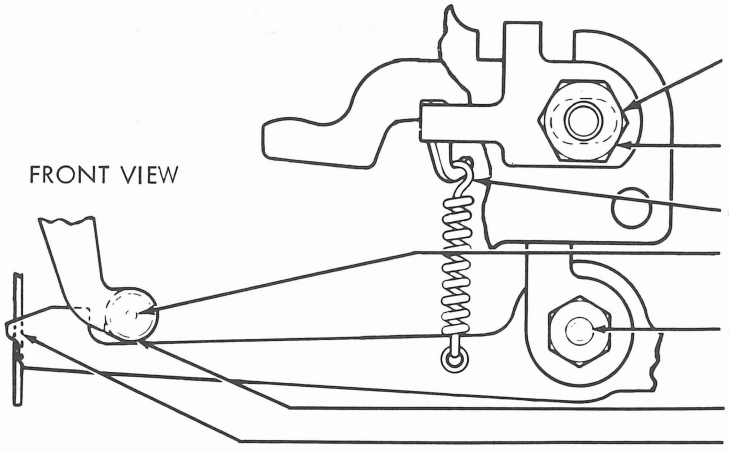


0	HOOKS-EACH END	SPRING
0	BEARING SURFACE (2 PLACES)	LOCAL CARRIAGE RETURN FUNCTION BAIL
G	ENGAGING SURFACE	LOCAL CARRIAGE RETURN FUNCTION LEVER

REST KEYBOARD IN UPRIGHT POSITION

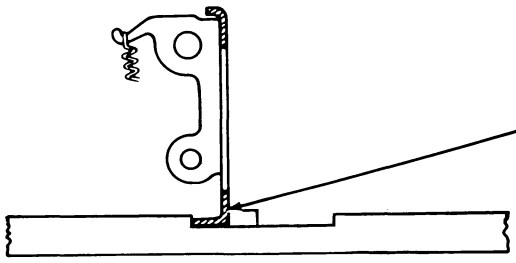


2.08 Non-repeat Lever Mechanism



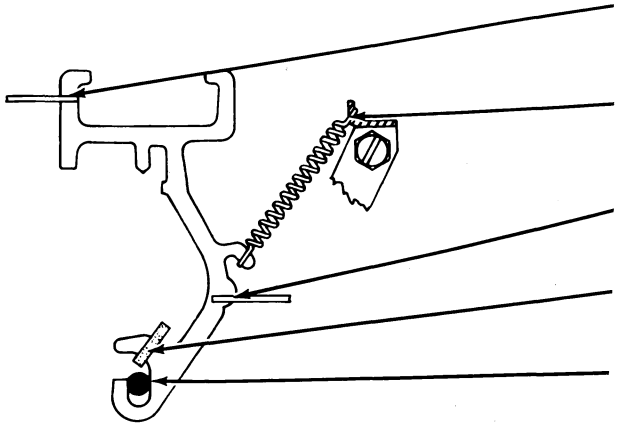
SAT	FELT WASHER (REAR VIEW)	NON-REPEAT LEVER CRANK
O2	BEARING SURFACE	NON-REPEAT LEVER CRANK
O	HOOKS - EACH END	SPRING
O	BEARING SURFACE	CODE BAR BAIL ROLLER
O2	BEARING SURFACE	NON-REPEAT LEVER
G	ENGAGING SURFACE	NON-REPEAT LEVER
O2	GUIDE SLOT	NON-REPEAT LEVER

2.09 Clutch Trip Bar Mechanism



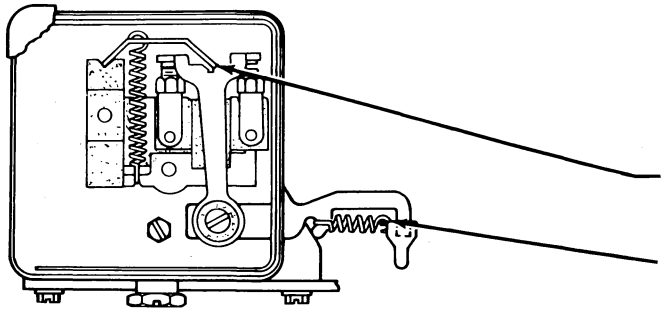
G	SLOT	CLUTCH TRIP BAR WEAR PLATE

2.10 Transfer Lever Mechanism



0	GUIDE SLOTS	TRANSFER LEVERS (10 LEVERS)
0	HOOKS-EACH END (10 SPRINGS)	SPRING
0	GUIDE SLOTS	TRANSFER LEVERS (10 LEVERS)
SAT	FELT WASHERS (5 WASHERS)	CAMMING SURFACES
0	GUIDE SLOTS	TRANSFER LEVERS (10 LEVERS)

2.11 Contact Box

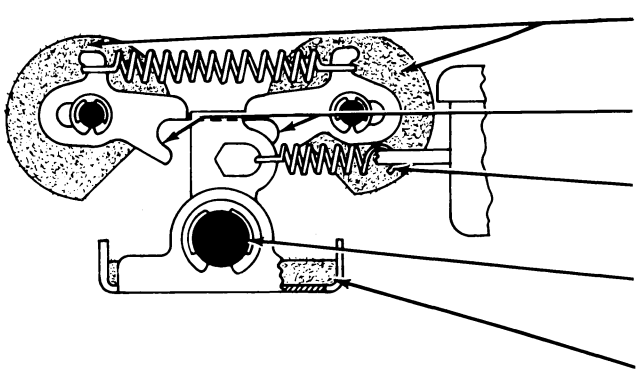


DISASSEMBLY: REMOVE NUT AND LOCK WASHER SECURING CONTACT BOX COVER AND REMOVE COVER.

G	ENGAGING SURFACE	CONTACT TOGGLE
0	HOOKS-EACH END	SPRING

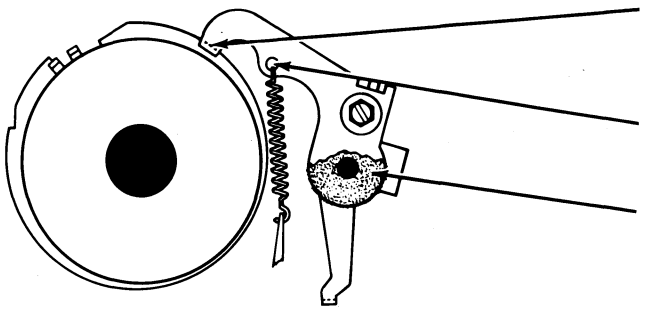
NOTE: THE MARKING "DO NOT OIL" ON THE SIGNAL CONTACT BOX COVER SHOULD BE INTERPRETED LITERALLY. PORTIONS OF THE MECHANISM SHOULD BE GREASED AS INDICATED, BUT NO OIL SHOULD BE USED.

2.12 Transfer Bail Mechanism



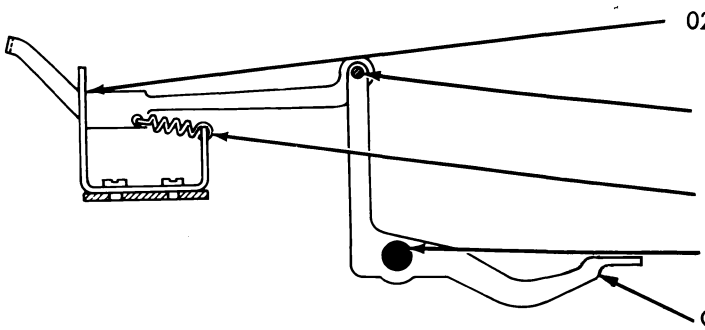
SAT	FELT WASHERS (2 WASHERS)	LATCHES
G	ENGAGING SURFACES	TRANSFER BAIL
0	HOOKS-EACH END (2 SPRINGS)	SPRING
02	BEARING SURFACE (EACH END)	TRANSFER BAIL
SAT	OIL WICK	TRANSFER BAIL

2.13 Keyboard Clutch Mechanism



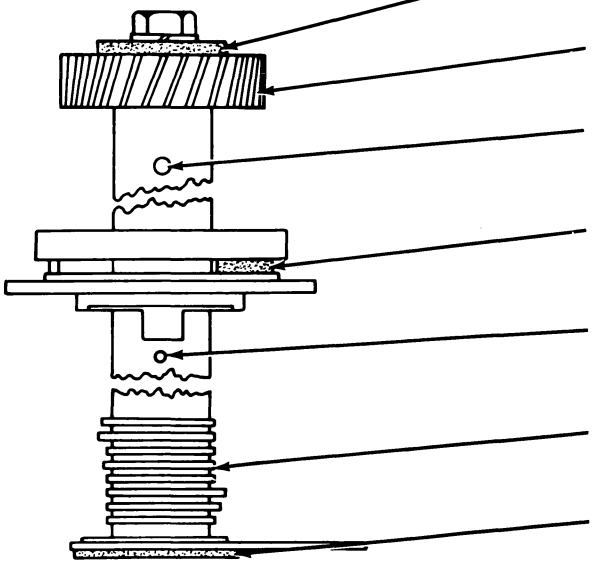
02	LATCHING SURFACE	CLUTCH STOP LEVER AND CLUTCH LATCH LEVER
0	HOOKS-EACH END (2 SPRINGS)	SPRING
SAT	FELT WASHERS (2 FRONT & REAR)	CLUTCH TRIP BAIL

2.14 Local Line Feed Mechanism



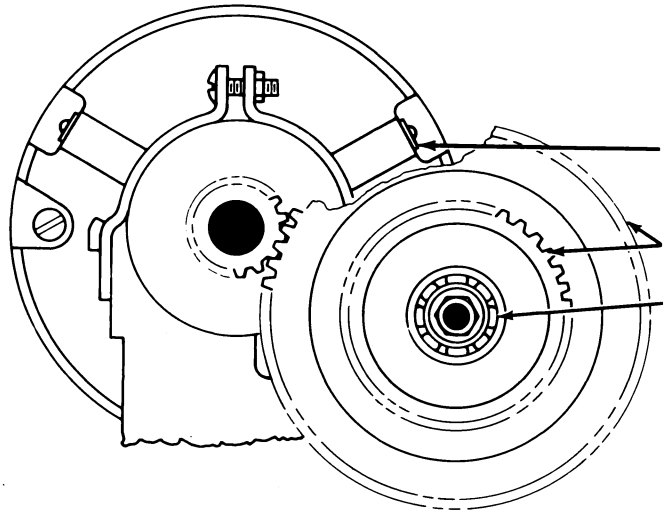
02	GUIDE SLOT	LOCAL LINE FEED TRIP LINK
0	BEARING SURFACE	LOCAL LINE FEED FUNCTION LEVER
0	HOOKS-EACH END	SPRING
0	BEARING SURFACE	FUNCTION BAIL
G	ENGAGING SURFACE	LOCAL LINE FEED FUNCTION LEVER

2.15 Keyboard Shaft Mechanism



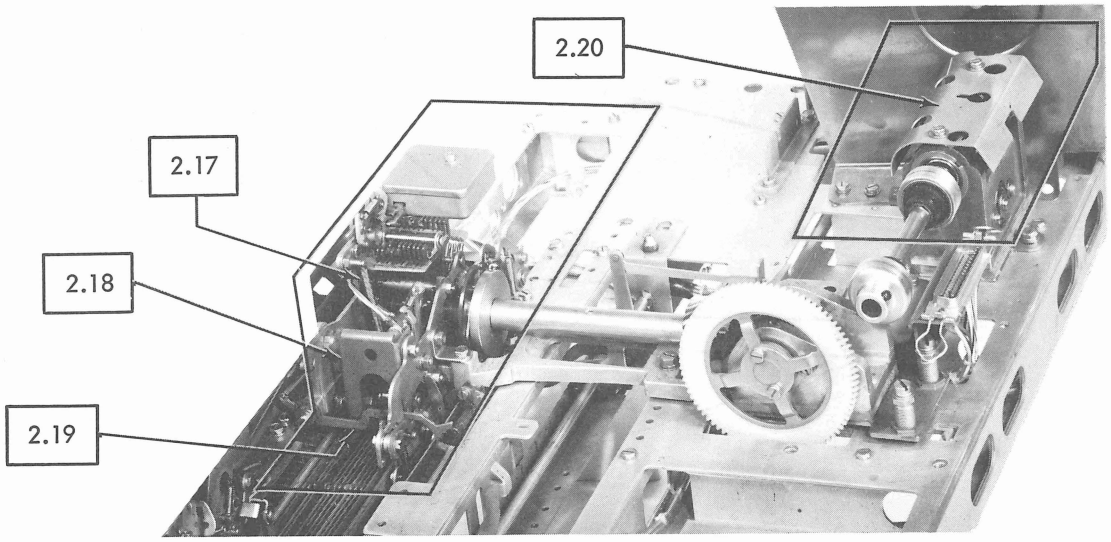
SAT	FELT WASHER	SIGNAL GENERATOR SHAFT
G	GEAR TEETH	SIGNAL GENERATOR SHAFT
020	OIL HOLE	SIGNAL GENERATOR SHAFT
04	INTERNAL MECHANISM	KEYBOARD CLUTCH
SAT	FELT WICK	
020	OIL HOLE	SIGNAL GENERATOR CAM
02	CAMMING SURFACE EACH CAM	SIGNAL GENERATOR CAM
SAT	FELT WASHER	SIGNAL GENERATOR SHAFT

2.16 Intermediate Gear Mechanism

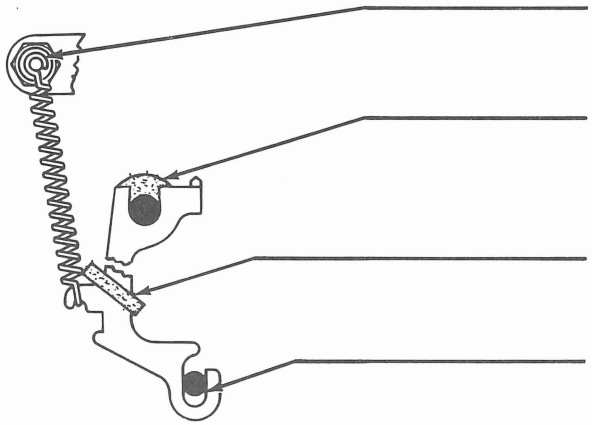


02	OILER-EACH END (RIGHT AND LEFT)	MOTOR SHAFT
G	TEETH (2 GEARS)	INTERMEDIATE GEARS
02	BALL BEARING (2 BEARINGS)	INTERMEDIATE GEAR SHAFT

REST KEYBOARD IN UPRIGHT POSITION

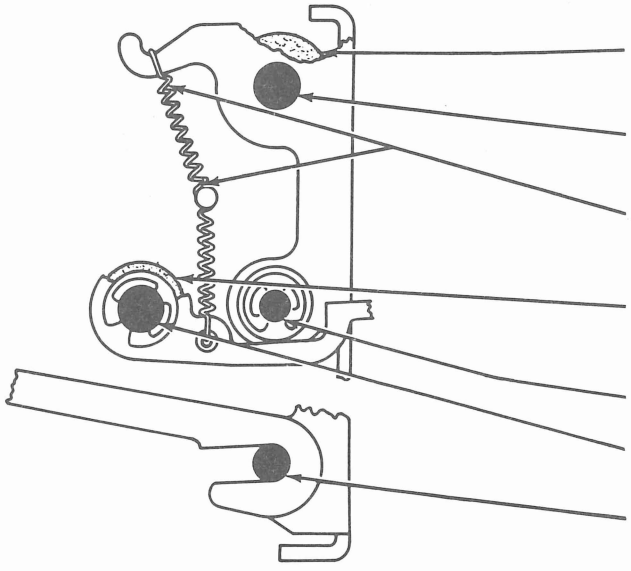


2.17 Locking Bail Mechanism



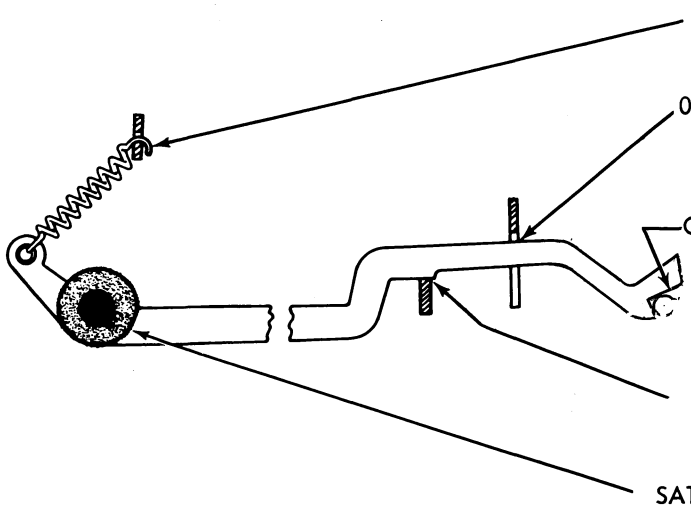
0	HOOKS-EACH END	SPRING
SAT	FELT WASHERS (2 WASHERS - FRONT AND REAR)	LOCKING BAIL POST
SAT	FELT WICK	CAMMING SURFACES
0	GUIDE SLOTS (3 SLOTS)	LOCKING BAIL

2.18 Code Bar Bail Mechanism



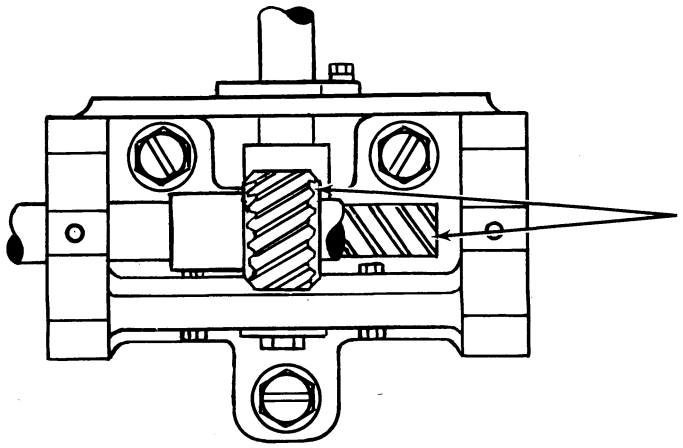
SAT	FELT WASHERS (TWO WASHERS)	CODE BAR BAIL
0	BEARING SURFACE (2 PLACES)	CODE BAR BAIL
0	HOOKS-EACH END (2 SPRINGS)	SPRING
SAT	FELT WASHER	CODE BAR BAIL LATCH
04	BEARING	CODE BAR BAIL
02	BEARING SURFACE	CODE BAR BAIL LATCH
02	ENGAGING SURFACE	ECCENTRIC FOLLOWER

2.19 Universal Bail Latch Lever Mechanism



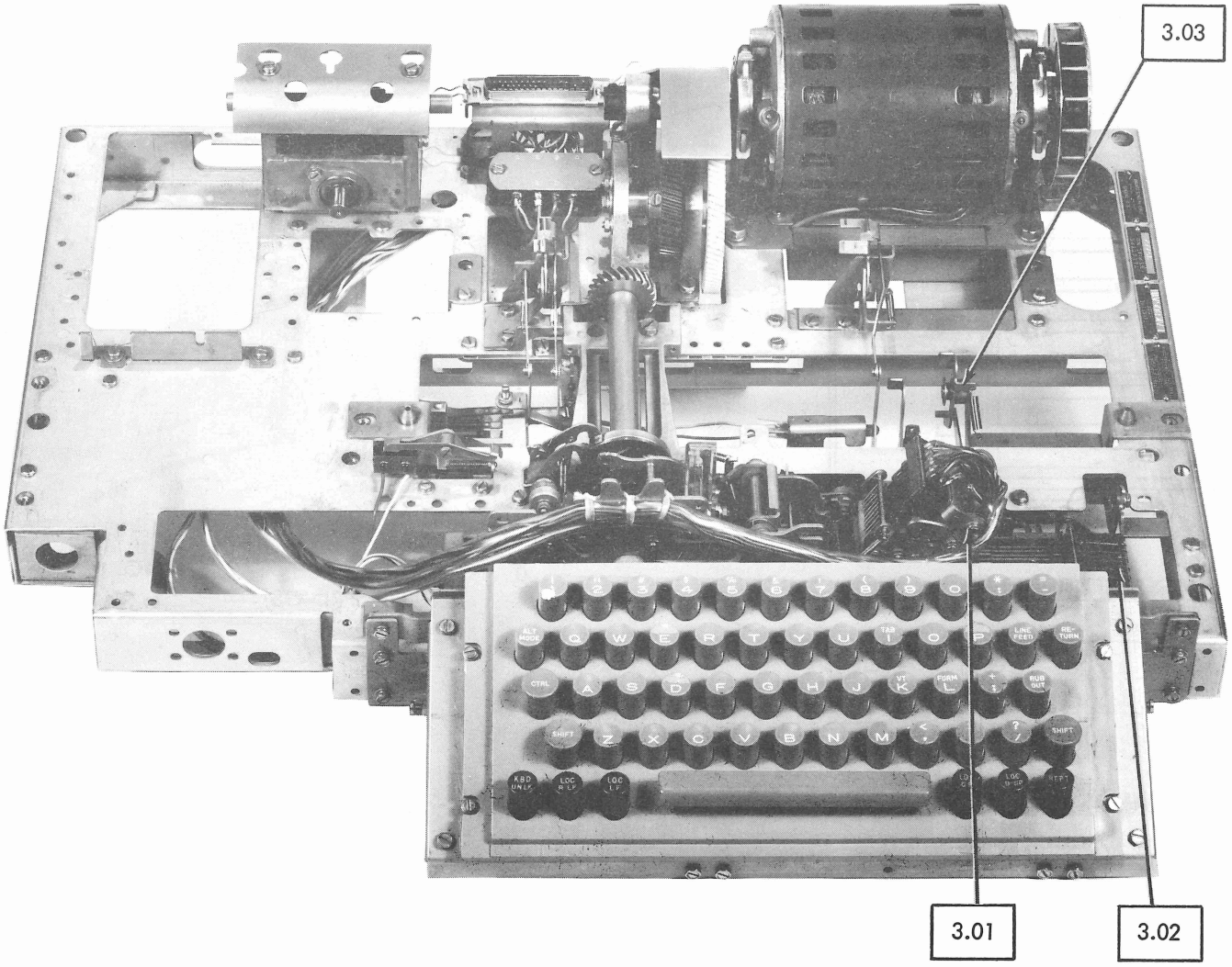
0	HOOKS (EACH END)	SPRING
02	GUIDE SLOT (EACH SIDE OF SLOT)	UNIVERSAL BAIL LATCH LEVER
G	ENGAGING SURFACE	CODE BAR BAIL EXTENSION
0	ENGAGING SURFACE	RESET BAIL LATCH
SAT	FELT WASHER	UNIVERSAL BAIL LATCH LEVER

2.20 Rear Bearing Bracket Gear Mechanism

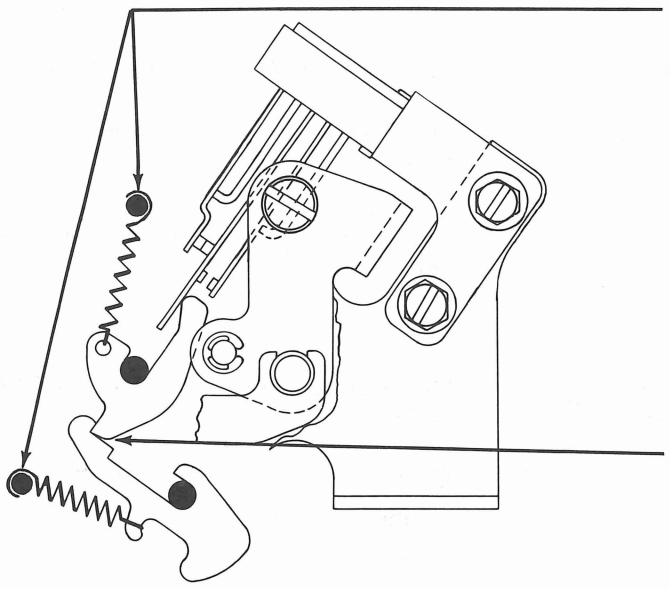


G	GEAR TEETH	REAR BEARING BRACKET GEAR

3. VARIABLE FEATURES



3.01 Code Reading Contact Mechanism

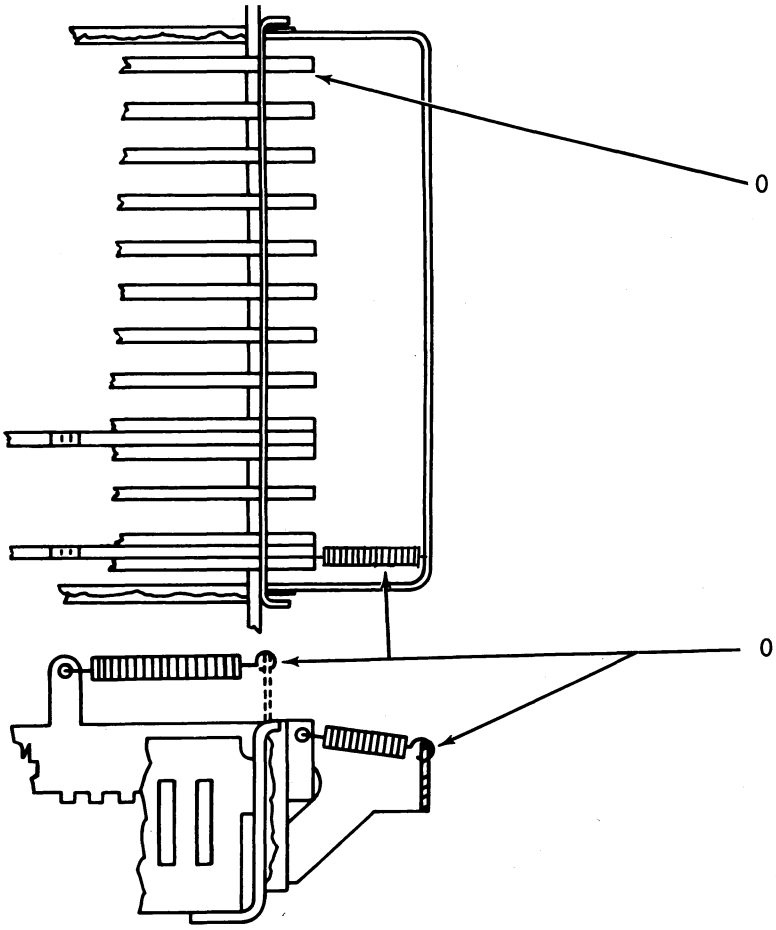


0 HOOKS - EACH END — SPRING

NOTE - KEEP CONTACTS FREE OF LUBRICANT.

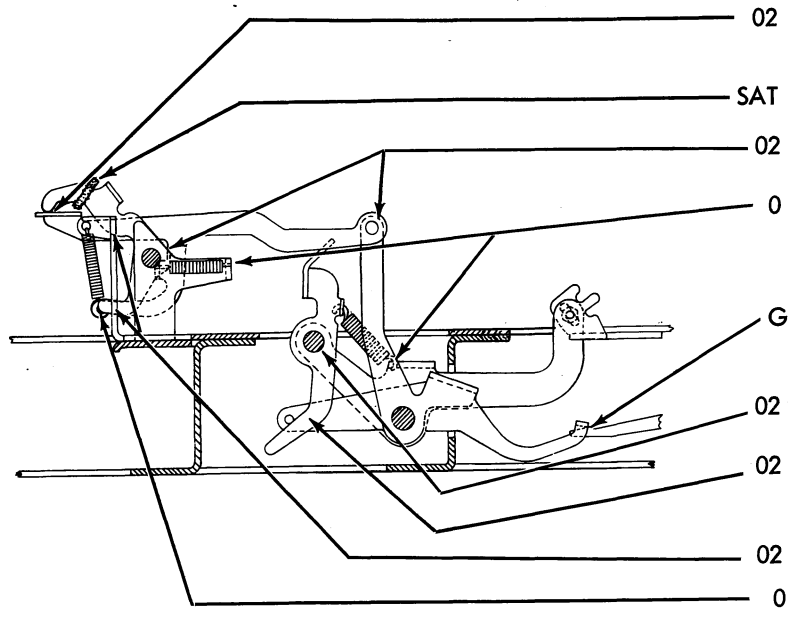
0 ENGAGING SURFACE — INTERMEDIATE LEVER

3.02 Code Bar Mechanism (Even Parity)



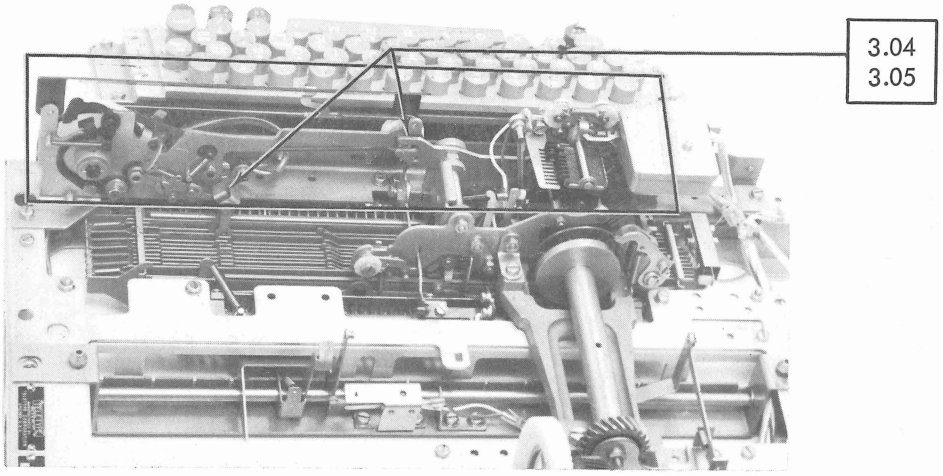
0	GUIDE SLOTS (LEFT AND RIGHT - TOP AND BOTTOM) SEE 2.05	CODE BAR GUIDES
0	HOOKS - EACH END (15 SPRINGS)	SPRING

3.03 Local Backspace Mechanism

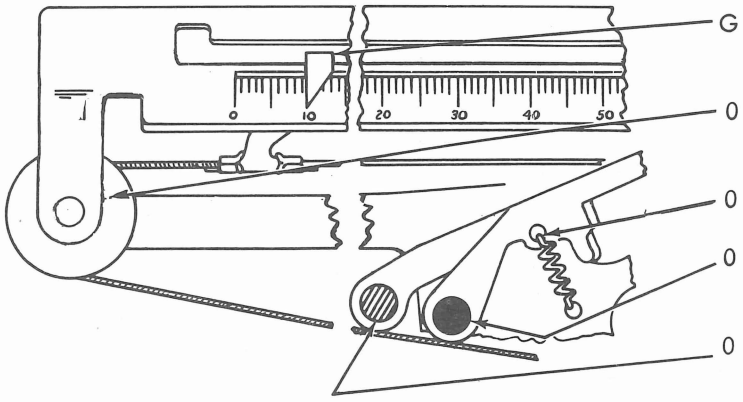


02	ENGAGING SURFACE	TRIP LINK
SAT	FELT WASHER	OPERATING BAIL
02	BEARING SURFACE	OPERATING BAIL
0	HOOKS - EACH END	SPRING
G	ENGAGING SURFACE	FUNCTION LEVER
02	BEARING SURFACE	TRANSFER LEVER
02	ENGAGING SURFACE	OPERATING BAIL
02	GUIDE SLOTS	STRIPPER LEVER
0	HOOKS - EACH END	SPRING

REST KEYBOARD IN UPRIGHT POSITION

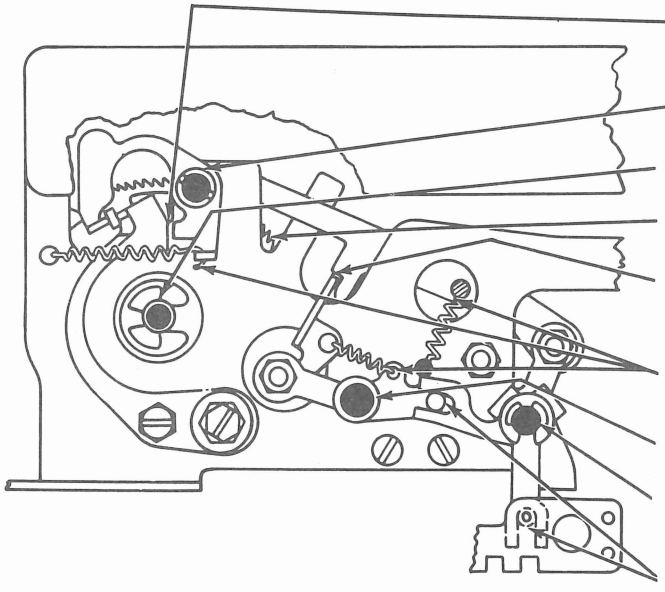


3.04 Character Counter Mechanism



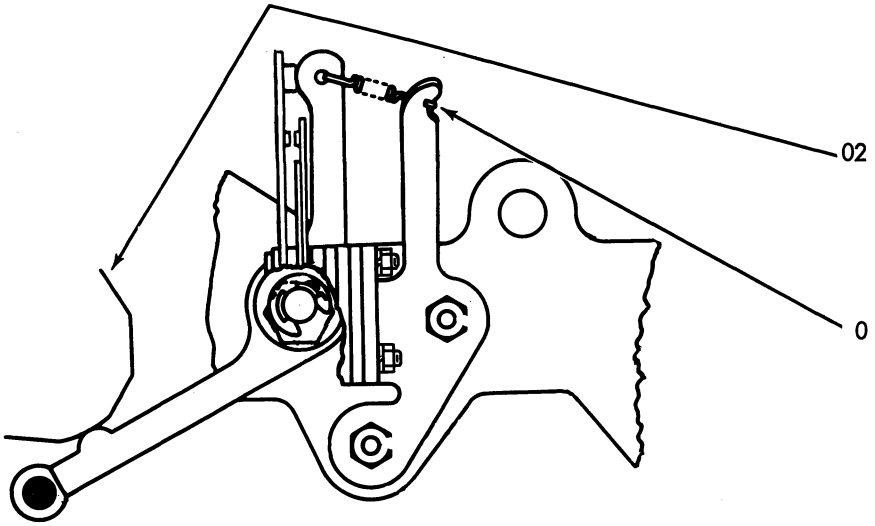
G	ENGAGING SURFACE	COUNTER SCALE BRACKET
0	BEARING SURFACE	INDICATOR CORD PULLEY
0	HOOKS-EACH END	SPRING
0	BEARING SURFACE	RATCHET LATCH LEVER
0	BEARING SURFACE	RATCHET DRIVE LEVER

3.05 Character Counter Mechanism - continued



0	CONTACT SURFACE	ANTI-BOUNCE LATCH
0	BEARING SURFACE	ANTI-BOUNCE LATCH
02	BEARING SURFACE	RATCHET DRUM
G	TEETH	RATCHET
0	ENGAGING SURFACES (2 PLACES)	RESET LEVER EXTENSION
0	HOOKS-EACH END (3 SPRINGS)	SPRING
0	BEARING SURFACE	RESET BAIL
0	BEARING SURFACE	DRIVE LEVER FEED BAIL
0	ENGAGING SURFACES (3 SURFACES)	DRIVE LEVER FEED BAIL & RESET BAIL

3.06 Timing Contact Mechanism

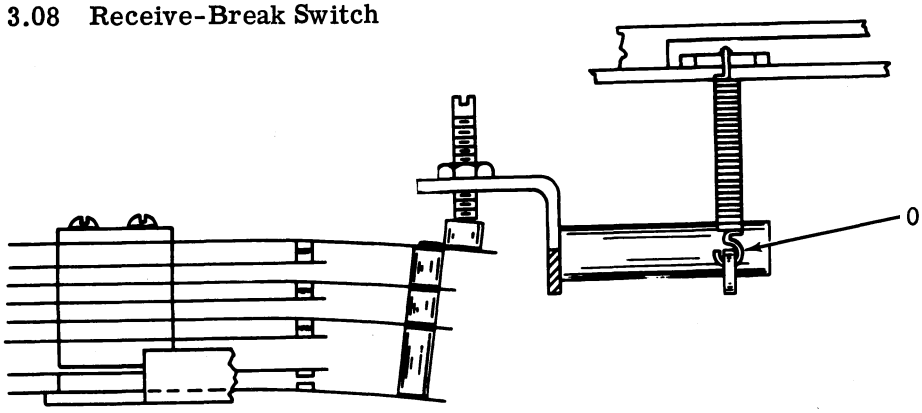


02	EACH CAM SURFACE	CAM
0	HOOKS - EACH END	SPRING

3.07 Auxiliary Contact

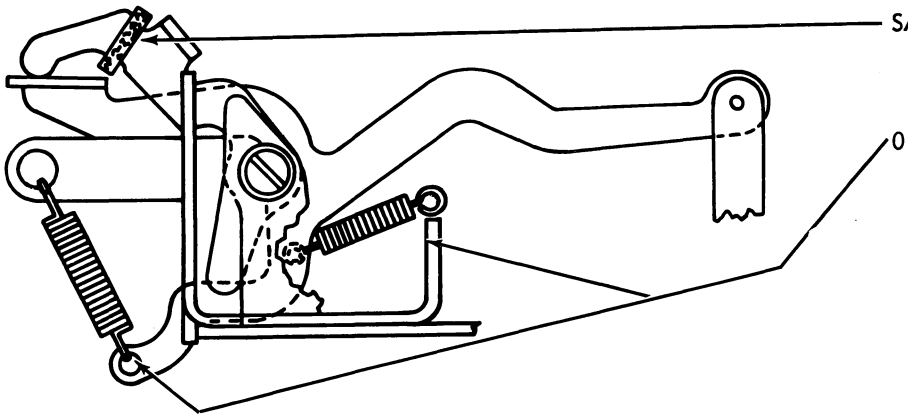
USE 3.06

3.08 Receive-Break Switch



0	HOOKS - EACH END	SPRING

3.09 Local Single Line Feed Mechanism



SAT		FELT WASHER
0	HOOKS - EACH END (2 SPRINGS)	SPRING