## 28 TYPING UNIT

### LUBRICATION

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## 1. GENERAL

### 1.01 This section is issued to define the lubrication requirements for the 28 typing unit.

### 1.02 The specific lubrication instructions are divided into basic units and variable features. The basic units consist of the friction feed and sprocket feed typing units. Mechanisms which are added to a basic unit and are of an optional nature appear under variable features.

### 1.03 The typing unit should be lubricated as directed in this section. The points to be lubricated and the kind and quantity of lubricant to be used are indicated in the figures. Lubricate the typing unit just before placing it in service. After a few weeks of service, re-lubricate the unit to make sure that all points have received lubrication. Thereafter, the following schedule should be followed:

<table>
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<th>Lubrication Interval</th>
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<td>60</td>
<td>3000 hr or 1 yr*</td>
</tr>
<tr>
<td>75</td>
<td>2400 hr or 9 mo*</td>
</tr>
<tr>
<td>100</td>
<td>1500 hr or 6 mo*</td>
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*Whichever occurs first.

### 1.04 Use KS-7470 oil at all locations where the use of oil is indicated. Use KS-7471 grease on all surfaces where grease is indicated.

### 1.05 All spring wicks and felt oilers should be saturated. The friction surfaces of all moving parts should be thoroughly lubricated. However, over lubrication, which will permit oil or grease to drip or be thrown on other parts, should be avoided.
CAUTION: SPECIAL CARE MUST BE TAKEN TO PREVENT ANY OIL OR GREASE FROM GETTING BETWEEN THE SELECTOR ARMATURE AND ITS MAGNET POLE FACES. KEEP ALL ELECTRICAL CONTACTS FREE OF OIL AND GREASE.

1.06 Apply a thick film of grease to all gears and the spacing clutch reset cam plate.

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

1.08 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.

Note: References made to left or right, top or bottom, and front or rear apply to the typing unit in its normal operating position as viewed by the operator facing the unit.

1.09 The following list of symbols apply to the specific lubrication instructions given in each paragraph.

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

1.10 During each lubrication period, check the following items. Requirements and adjustments are given in Section 573-115-700.

1. Printing Carriage Position
2. Printing Hammer Bearing Stud
3. Printing Track
4. Printing Hammer Stop Bracket (Also see Note 2, Par. 2.48, 573-115-700 which refers to Printing Hammer Operating Ball Spring Bracket Position.)
5. Carriage Draw Wire Rope
6. Dashpot Vent Screw (Check dashpot transfer slide for freeness.)
2. BASIC UNITS

2.01 Typing Unit - Front View

2.02 Printing Mechanism

- SAT: FELT WASHERS (2 WASHERS)
- G: ENGAGING SURFACE
- O: HOOKS - EACH END (4 SPRINGS)
- SAT: FELT WASHER
- O2: ENGAGING SURFACES (2 PLACES)
- PRINTING HAMMER OPERATING BAIL
- SECONDARY PRINTING ARM SPRING WICK
- ENGAGING SURFACE
- ENGAGING SURFACE
- FELT WICK
- FELT WICK
- PRINTING HAMMER STOP
- PRINTING HAMMER
- SPRING WICK
- SPRING
- OPERATING BAIL LATCH
- OPERATING BAIL LATCH
2.03 Printing Mechanism (Cont'd)

- SAT Felt Washers (3 Washers)
- SAT Felt Washers (2 Washers)
- G Guiding Surface
- Printing Carriage Rollers
- Printing Arm Extension
- 010 Track Surface
- Printing Track
- Printing Arm

2.04 Type Box Carriage Mechanism

- O Bearing Surface
- Type Box Carriage Latch Toggle
- O2 Bearings (3 Rollers)
- Type Box Carriage Rollers
- O Hook - Each End Felt Wick
- Spring
- O Bearing Surface
- Type Box Carriage Latch
- O2 Bearing Surface
- Type Box Carriage Link
2.05 Typing Unit - Front View

2.06 Codebar Mechanism

- O2 GUIDE SLOTS (RIGHT, CENTER AND LEFT - 9 BARS)
- O HOOKS - EACH END (3 PLACES)
2.07 Typing Unit - Left Front View

2.08 Codebar Detents

2.09 Paper Feed Mechanism - Front View

- O2 HOOKS - EACH END
- SPRING
- O2 BEARING SURFACE
- PLATEN DETENT BAIL
- O2 BEARING SURFACE (EACH END)
- PAPER FINGER SHAFT
- G TEETH (2 GEARS)
- PLATEN GEARS
- O2 BEARINGS (EACH END)
- PLATEN SHAFT
- O BEARING SURFACES - EACH END (6 ROLLERS)
- PAPER PRESSURE ROLLER SHAFTS (WIPE OFF EXCESS OIL)
- O2 BEARING SURFACES (EACH END)
- PAPER STRAIGHTENER SHAFT
- O2 BEARING SURFACES (RIGHT AND LEFT)
- PAPER STRAIGHTENER LEVERS
- O HOOKS - EACH END
- SPRING
- O2 BEARING SURFACE
- RELEASE LEVER
- O2 BEARING SURFACES (EACH END)
- RELEASE LEVER LINK

(LEFT SIDE)

(RIGHT SIDE)
2.10 Typing Unit - Rear Left End View

2.11 Typing Unit - Right End View

2.12 Ribbon Feed Mechanism - Right Side

- 02 Bearing Surface
- 02 Bearing Surface
- SAT Felt Washer
- 0 Hooks - Each End
- 02 Engaging Surface
- 0 Hooks - Each End
- G Teeth

(RIGHT SIDE VIEW)

(RIGHT SIDE VIEW)

- SAT Felt Washers (2 Washers)
- 02 Bearing Surface
- 0 Hooks - Each End
- 02 Bearing Surfaces (2 Places)

(RIGHT VIEW)

- 02 Bearing Surface

Page 8
2.13 Ribbon Feed Mechanism - Right Side (Cont'd)

- O2: ENGAGING SURFACE
- G: TEETH
- RIBBON REVERSING ARM
- RIBBON REVERSE LEVERS
- RIBBON REVERSE LEVER
- RIBBON REVERSE SPUR GEAR

2.14 Vertical Positioning Mechanism - Right Side

- SAT: FELT WASHER
- O2: BEARING SURFACE
- O2: ENGAGING SURFACE
- O2: ENGAGING SURFACES (4 PLACES)
- O: HOOKS - EACH END
- O2: BEARING SURFACES (2 PLACES)
- O2: FELT WASHERS (2 WASHERS)
- SAT: GUIDING SURFACE
- O2: BEARING SURFACE
- O2: HOOKS - EACH END
- O2: BEARING SURFACE
- O2: ENGAGING SURFACE
- SAT: FELT WASHER
- SAT: FELT OILER
- O: HOOKS - EACH END (2 SPRINGS)
- SAT: FELT WICK
- O2: BEARING SURFACE
- O2: BALL BEARING
- VERTICAL POSITIONING LEVER
- RIBBON DRIVE LINK
- VERTICAL POSITIONING LEVER
- VERTICAL POSITIONING LEVER
- VERTICAL POSITIONING LOCK LEVER
- SPRING
- VERTICAL POSITIONING LEVER
- MAIN SIDE LEVER FOLLOWER ARM
- STRIPPER BLADE
- RIBBON DRIVE LINK
- SPRING
- CODE BAR CLUTCH TRIP SHAFT
- OPERATING LEVER
- MAINSIDE LEVER FOLLOWER ARM
- STRIPPER BLADE ARM
- CODE BAR CLUTCH TRIP SHAFT
- OPERATING LEVER EXTENSION
- VERTICAL POSITIONING LEVER
- SPRING
- SPRING WICK
- ROCKER SHAFT BRACKET
- MAIN ROCKER SHAFT
2.15 Ribbon Feed Mechanism - Left Side

- 0 Hooks - Each End
- 0 Bearing Surface
- 02 Bearing Surface
- SAT Felt Washer

- 0 Hooks - Each End
- 02 Engaging Surface

- SPRING
- RIBBON SPOOL SHAFT
- RIBBON ROLLER SHAFT
- RIBBON SPOOL SHAFT
- RIBBON DETENT LEVER

(REAR VIEW)

- SAT Felt Washers (2 Washers)
- 02 Bearing Surface
- G Teeth

- 0 Hooks - Each End
- 02 Engaging Surface
- 02 Bearing Surfaces (2 Places)

- SPRING
- RIBBON FEED LEVER BAIL
- RIBBON REVERSE LEVER
- RIBBON RATCHET WHEEL
- RIBBON DETENT LEVER SHAFT
- RATCHET FEED LEVER SHAFT

2.16 Ribbon Feed Mechanism - Left Side (Cont’d)

- 02 Bearing Surface

- 02 Engaging Surface

- 02 Engaging Surface

- G Teeth

- RIBBON REVERSE LEVER
- RIBBON REVERSING LEVER
- RIBBON REVERSE LEVER
- RIBBON REVERSE SPUR GEAR
2.17 Vertical Positioning Mechanism - Left Side

- O2 GUIDING SURFACE
- O2 BEARING SURFACE
- SAT FELT WASHER
- SAT ENGAGING SURFACES (4 PLACES)
- O2 HOOKS - EACH END
- O2 ENGAGING SURFACE
- O2 BEARING SURFACE
- O2 BEARING SURFACES (2 PLACES)
- SAT FELT WASHERS (2 WASHERS)
- SAT FELT OILER
- O2 CAMMING SURFACE
- SAT FELT WICK
- SAT HOOKS - EACH END
- O2 BALL BEARING
- O2 BEARING SURFACE

- STRIPPER BLADE
- RIBBON DRIVE LINK
- VERTICAL POSITIONING LINK
- VERTICAL POSITIONING LOCK LEVER
- SPRING
- VERTICAL POSITIONING LEVER
- RIBBON DRIVE LINK
- VERTICAL POSITIONING LEVER
- MAIN SIDE LEVER
- FOLLOWER ARM
- VERTICAL POSITIONING LEVER
- MAIN SIDE LEVER
- FOLLOWER ARM
- SPRING WICK
- SPRING
- MAIN ROCKER SHAFT
- ROCKER SHAFT BRACKET
- STRIPPER BLADE ARM

2.18 Typing Unit - Right End View

(right side view)
2.19 Codebar Mechanism

- 02 GUIDE SLOTS
- 02 ENGAGING SURFACE (6 SLOTS)
- 02 BEARING GUIDE SLOTS (4 ROLLERS)
- SAT FELT WASHERS (2 WASHERS)
- 0 HOOKS—EACH END (5 SPRINGS)
- 02 GUIDE SLOTS (5 SLOTS)
- 02 BEARING SURFACES (2 PLACES)
- 02 BEARING GUIDE SLOTS (5 SLOTS)
- SAT FELT WASHER
- 03 OIL HOLE
- SHIFT LEVERS
- SHIFT AND TRANSFER LEVERS
- TRANSFER LEVER GUIDE BEARING
- SHIFT LEVER LINK ROLLERS
- SHIFT LEVER LINK SHAFT
- SPRING
- INTERMEDIATE ARMS AND TRANSFER LEVERS
- SHIFT LEVERS
- INTERMEDIATE ARM GUIDE BEARING
- SHIFT LEVER LINK
- SHIFT LEVER DRIVE ARM SHAFT

2.20 Selector Mechanism

- 02 BEARING GUIDE SLOTS (5 SLOTS)
- SAT FELT WICK
- 02 ENGAGING SURFACES (5 LEVERS)
- 02 GUIDE SLOT/WICK
- 02 GUIDE SLOTS
- 0 HOOKS—EACH END (12 SPRINGS)
- FILL CUP (AVOID AIR LOCK)
- 02 BEARING GUIDE SLOTS (6 SLOTS)
- PUSH LEVER GUIDE BEARING
- SELECTOR WICK
- PUSH LEVERS
- MARKING LOCK LEVER
- LUBRICATOR WICK
- SELECTOR AND PUSH LEVERS
- SPRINGS
- LUBRICATOR RESERVOIR
- SELECTOR LEVER GUIDE BEARING
2.21 Selector Mechanism (Cont'd)

- G TEETH
- KNOB
- G TEETH
- RACK
- SAT FELT WASHERS (2 WASHERS)
- CLUTCH TRIP LEVER
- O HOOKS - EACH END
- SPRING

2.22 Typing Unit - Rear View

2.23 Typing Unit - Rear View

2.24
2.25
2.26
2.27
2.28
2.24 Stunt Box Mechanism

- O2 GUIDE SLOTS (11 LEVERS)
- O2 GUIDE SLOTS (11 PAWLS)
- SAT EACH FELT WICK
- O2 GUIDE SLOTS (11 LEVERS)
- O HOOKS - EACH END (33 SPRINGS)
- O2 ENGAGING SURFACES (FRONT & REAR - 11 BARS)
- O2 GUIDE AND ENGAGING SURFACES
- O HOOKS - EACH END
- O2 BEARING SURFACE
- O2 ENGAGING SURFACES (11 LEVERS)
- O ENGAGING SURFACE
- O2 GUIDE SURFACES (2 PLACES)
- O2 GUIDE SURFACES (EACH END)
- O2 ENGAGING SURFACES
- O2 ENGAGING SURFACES (2 PLACES)
- O2 GUIDING SURFACE
- O2 GUIDING SURFACE
- O2 BEARING SURFACE

- FUNCTION LEVERS
- FUNCTION PAWLS
- FUNCTION PAWL SPRINGS
- FUNCTION BARS
- SPRING
- LINE FEED SLIDE ARM SPRING
- KEYBOARD LOCK LEVER FUNCTION LEVERS
- LINE FEED STRIPPER SLIDE
- STRIPPER SLIDE
- STRIPPER SLIDE
- STRIPPER SLIDE
- LINE FEED FUNCTION PAWL STRIPPER
- STRIPPER BLADE
- STRIPPER BLADE
- STRIPPER BAIL

2.25 Stripper Blade Mechanism

- NEW STYLE
- OLD STYLE

2.26 Ribbon Reverse Mechanism

- O2 ENGAGING SURFACE
- O2 BEARING SURFACE
- O2 TEETH
- O2 BEARING (RIGHT & LEFT)
- O HOOKS - EACH END
- O2 BEARING SURFACE

- RIBBON REVERSE DETENT
- PAPER RELEASE LEVER
- RIBBON REVERSE SPUR GEAR
- RIBBON REVERSE SHAFT
- SPRING
- RIBBON REVERSE DETENT LEVER
2.27 Shift Mechanism

0 ENGAGING SURFACES
0 ENGAGING SURFACE
02 GUIDING SURFACES (EACH SLIDE)
02 ENGAGING SURFACE

LETTERS FUNCTION SLIDE
FIGURES FUNCTION SLIDE
LETTERS AND FIGURES FUNCTION SLIDES
LETTERS-FIGURES CODE BAR FORK

2.28 Function Rocker Shaft Mechanism

SAT FELT WASHER
02 GUIDE SURFACE
SAT FELT WASHERS (2 WASHERS)
SAT FELT WASHERS (2 WASHERS)
SAT FELT WASHERS (2 WASHERS)

SPACE SUPPRESSION BAIL
CARRIAGE RETURN SLIDE ARM
FUNCTION ROCKER SHAFT
FUNCTION BAIL TOGGLE LINK
FUNCTION BAIL

2.29 Typing Unit - Front Bottom View
2.30 Spacing Drum Drive Mechanism - Later Design

(Front View)

2.31 Spacing Drum Drive Mechanism - Earlier Design

(Front View)

(Bottom View)
2.32 Carriage Return Mechanism

SAT FELT OILER
02 BETWEEN LAYERS
G CAM DISK SURFACE
02 BEARING (OUTER AND INNER END)
SAT FELT WASHER
0 HOOKS—EACH END
SAT FELT WICK
02 BEARING SURFACE
SAT FELT OILER
02 BEARING SURFACE
02 CABLE GROOVES

PRINTING TRACK GUIDE
CARRIAGE RETURN SPRING
MARGIN INDICATOR CAM DISK
CARRIAGE RETURN SPRING
DRUM SHAFT
SPRING
SPRING WICK
TENSION PULLEY BAIL
MAIN BAIL
PULLEY
CARRIAGE RETURN SPRING
DRUM

2.33 Spacing Drum Feed Mechanism

02 ENGAGING SURFACES
(2 PLACES)
02 BEARING SURFACE
0 HOOKS—EACH END
02 ENGAGING SURFACE
02 BEARING SURFACES
(2 PLACES)
0 HOOKS—EACH END

AUTOMATIC CARRIAGE RETURN
BELL CRANK
AUTOMATIC CARRIAGE RETURN
BELL CRANK
SPRING
SPACING DRUM FEED PAWL
RELEASE LINK
SPACING DRUM FEED PAWL
RELEASE LINK
SPRING

2.34 Track Guide Mechanism

SAT FELT OILER

PRINTING TRACK GUIDE
2.35 Typing Unit - Front View

2.36 Horizontal Positioning Mechanism

SAT FELT WASHER
02 ENGAGING SURFACE
02 DETENTS (2 DETENTS)
02 ENGAGING SURFACE
SAT FELT WASHERS (2 WASHERS)
02 BEARING SURFACE

HORIZONTAL REVERSING SLIDE
HORIZONTAL REVERSING SLIDE SHIFT LEVER
DETENT BAILS
HORIZONTAL REVERSING SLIDE SHIFT LEVER
OSCILLATING RAIL SHIFT SLIDE
HORIZONTAL REVERSING SLIDE SHIFT LEVER

(RIGHT SIDE)

SAT FELT WASHERS (2 WASHERS)
02 ENGAGING SURFACES (2 PLACES)
SAT FELT WASHERS (2 WASHERS)

HORIZONTAL REVERSING SLIDE
HORIZONTAL REVERSING SLIDE
OSCILLATING RAIL SHIFT SLIDE

(LEFT SIDE)
2.37 Horizontal Positioning Mechanism (Cont'd)

(TOP VIEW)

0 HOOKS-EACH END
SAT FELT WASHER
02 ENGAGING SURFACES (3 SLIDES)

SPRING
CODE BAR BELL CRANK
HORIZONTAL MOTION STOP SLIDES

2.38 Horizontal Positioning Mechanism (Cont'd)

(NEW STYLE)

0 HOOKS-EACH END (2 SPRINGS)
02 ENGAGING SURFACES (2 BELL CRANKS)
02 BEARING SURFACES (2 SLIDES)
SAT FELT WASHERS (3 WASHERS)

DECELERATING SLIDE (SEE NOTE 1)
SPRING
DECELERATING SLIDE BELL CRANKS
DECELERATING SLIDES (SEE NOTE 2)
SHIFT SLIDE DRIVE LINKS

(FRONT VIEW)

0 BEARING SURFACES (8 PLACES)

SHIFT SLIDE DRIVE LINKS

NOTES
1. WITH SPRINGS LOCATED ON REAR SIDE OF SLIDE
2. WITH SPRINGS LOCATED ABOVE THE SLIDE

2.39 Horizontal Positioning Mechanism (Cont'd)

02 GUIDING SURFACE
02 BEARING SURFACE
SAT FELT WICK
0 HOOKS-EACH END
SAT FELT WASHER

HORIZONTAL POSITIONING LOCK LEVER
HORIZONTAL LOCK LEVER ARM
ROLLER
SPRING WICK
SPRING
HORIZONTAL POSITIONING LOCK LEVER
2.40 Typing Unit - Front View

2.41 Letters - Figures Shift Mechanism

02 GUIDING SURFACES (2 SLIDES)
SAT FELT WASHER

SHIFT LINK BREAKER SLIDE
LETTERS-FIGURES SHIFT SLIDE POST
LETTERS-FIGURES SHIFT SLIDE
2.42 Letters - Figures Shift Mechanism (Cont'd)

(RIGHT SIDE)

2.43 Oscillating Mechanism

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2.44  Oscillating Mechanism (Cont'd)

2.45  Typing Unit - Bottom View
2.46 Main Shaft - Clutches, Gears, Etc.

2.47 Main Shaft Mechanism

2.48 Selector Cam Clutch Assembly
2.49 Main Shaft - Clutches, Gears, Etc. (Cont'd)

- Engaging Surfaces (3 Levers)
  - Clutch Trip Lever

- Engaging Surfaces (3 Levers)
  - Clutch Latch Lever

- Hooks - Each End (3 Springs)
  - Springs

- Felt Washer & Wick
  - Cam Follower Arm
  - Roller

- Bearing Surface
  - Cam Follower Arm
  - Bearings (Both Ends)

- Felt Washers (16 Washers)
  - Clutch Trip Lever Shaft

2.50 Typing Unit - Bottom View

2.52

2.51

2.53
2.51 Spacing Mechanism

- 02 Engaging Surfaces
- SAT Felt Washers (2 Washers)
- SAT Felt Washer
- SAT Felt Washer
- SAT Felt Washer
- 02 Engaging Surface
- G Engaging Surface
- G Hooks—Each End (2 Springs)
- SAT Felt Washer
- 02 Engaging Surface
- SAT Felt Washer
- SAT Felt Washer
- SAT Felt Washer
- SAT Felt Washer
- 02 Engaging Surface

2.52 Spacing Mechanism (Cont'd)

- 02 Oil Hole
- G Teeth

2.53 Spacing Mechanism (Cont'd)

- 02 Engaging Surface
- SAT Felt Washers (2 Washers)
- SAT Felt Washer
- SAT Felt Washer
- SAT Felt Washer
- 02 Engaging Surface
- SAT Felt Washers (2 Washers)
- 0 Hooks—Each End

- Spacing Trip Lever
- Spacing Suppression Slide
- Spacing Trip Lever
- Spacing Trip Lever Bail Shaft
- Spacing Trip Lever Bail
- Trip Reset Cam Spring Plate
- Spacing Shaft
- Spacing Shaft Gear
- Spacing Cut-Out Transfer Bail
- Spacing Cut-Out Transfer Bail
- Spacing Cut-Out Bail
- Spacing Cut-Out Bail
- Carriage Return Bail Shaft
- Spring
2.54 Typing Unit - Rear Left View
2.55 Paper Spindle Latch Mechanism

2.56 Line Feed Mechanism - Friction Feed

- 0 Hooks - Each End
- 02 Bearing Surface
- 02 Bearing Surface (2 Gears)
- 02 Engaging Surface
- 02 Guiding Surface (2 Bars)
- 02 Guiding Surfaces (2 Bars)
- 02 Engaging Surface
- 0 Hooks - Each End
- 02 Guiding Surfaces (2 Bars)
- 02 Bearing Surfaces (2 Bearings)
- G Teeth
- 02 Bearing Surface

- Spring
- Platen Hand Wheel
- Platen Idler Spur Gear
- Platen Spur Gears
- Line Feed Bars
- Line Feed Bar Release Lever
- Line Feed Bars
- Line Feed Bar Release Lever
- Spring
- Line Feed Bar Bell Crank
- Line Feed Bar Clutch Spur Gear
- Line Feed Clutch Spur Gear Shaft
2.57 Typing Unit - Rear Top View

2.58 Line Feed Mechanism - Sprocket Feed

- G TEETH
- 02 BEARING SURFACE
- HANDWHEEL GEAR
- PLATEN DETENT BAIL
- G TEETH
- 02 BEARING SURFACE
- IDLER GEAR
- IDLER GEAR
- G TEETH
- 02 BEARING SURFACE (2 PLACES)
- PLATEN GEAR
- PLATEN GEAR
- 0 HOOKS - EACH END
- SPRING

(RIGHT SIDE VIEW)
2.59 Paper Guide Mechanism - Sprocket Feed

0 HOOKS - EACH END  SPRING

02 PIVOTS (2 PLACES)  GUIDE BRACKET LATCH

02 PIVOTS (2 PLACES)  GUIDE BRACKET SHAFT

0 HOOKS - EACH END  SPRING

G PACK PIN AND SPRING CAVATIES (22 PLACES)  SPROCKET

(RIGHT SIDE VIEW)

NOTE: BEFORE ATTEMPTING TO DISASSEMBLY THE 153700 PLATEN HUB, SEE DISASSEMBLY AND REASSEMBLY INSTRUCTIONS, SECTION 573-115-702.
3. VARIABLE FEATURES
HORIZONTAL TABULATOR MECHANISM - EARLIER DESIGN
3.01 Typing Unit - Front View

3.02 Tabulator Shaft Mechanism

3.03 Space Suppression Mechanism
3.04 Typing Unit - Bottom View

3.05 Operating Lever Mechanism

O2 ENGAGING SURFACES (2 PLACES)
O HOOKS - EACH END
O2 ENGGING SURFACE
O2 BEARING SURFACE
O2 BEARING SURFACES (2 PLACES)
O2 BEARING SURFACE
O HOOKS - EACH END
O2 GUIDE SURFACE
O2 ENGAGING SURFACES (2 PLACES)
O2 BEARING SURFACE

SPACING TRIP ARM
SPRING
OPERATING LEVER
BLOCKING ARM
TRIP ARM LATCH BAIL
OPERATING LEVER
SPRING
BLOCKING ARM
SLIDE ARM
SLIDE ARM

(LEFT SIDE VIEW)
3.06 Spacing Clutch Mechanism

02 GUIDE SURFACE
02 GUIDE SURFACE
02 HOOKS - EACH END
02 ENGAGING SURFACE
02 BEARING SURFACE
0 SAT FELT WICK
02 CAMMING SURFACE
SAT FELT WASHERS (5)
G CAMMING SURFACE

CAMS ARM
TABULATOR SLIDE ARM
SPRING
CAMS ARM
CAMS ARM
SPRING
CAMS ARM
CLUTCH TRIP SHAFT
SPACING CLUTCH
RESTORING CAM

SELECTIVE CALLING MECHANISM

3.07 Typing Unit - Rear View
3.08 Stripper Bail Mechanism

(LEFT SIDE VIEW)

3.09 Shift and Stripper Bail Mechanisms

(TOP VIEW)

(REAR VIEW)
3.10 Typing Unit - Rear View - Stunt Box Removed

3.11 Single-Double Line Feed Mechanism

- O2 Pivot
- O2 Engaging Surface
- O2 Guide Surfaces
- SAT Felt Washer
- O2 Engaging Surfaces (4 Surfaces)
- O2 Coils
- O2 Hooks - Each End
- Single-Double Line Feed Lever
- Operating Arm
- Operating Arm
- Operating Arm
- Stripper Bail
- Torsion Spring
- Spring
- Spring

(RIGHT SIDE VIEW)
3.12 Function Reset Bail Mechanism

- Hooks—Each End (2 Springs)
- Sat Felt Wicks (2 Springs)
- Sat Felt Washers (2 Bearings)
- 02 Bearings (3 Rollers)
- Sat Felt Washers (Each End)
- Sat Felt Washers (2 Pivots)
- Engaging Surface
- Sat Felt Washer

SPINGS
SPINGS
CAM SHAFT
FUNCTION BAIL ROLLERS
DRIVE LINK
FUNCTION BAR RESET BAIL
FUNCTION CAM ROLLER
CAM ROLLER BRACKET LINK

3.13 Typing Unit - Left End View

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3.14 Clutch Suppression Mechanism

_Locating Markings_
- 02 BEARING SURFACES (2 PLACES)
- 0 HOOKS—EACH END
- 02 ENGAGING SURFACES (2 PLACES)
- Felt Washers (2 Places)
- Solenoid Bell Crank Lever
- Spring
- Blocking Bail

*Left Side View*

LOCAL BACKSPACE MECHANISM

3.15 Typing Unit — Front View
3.16 Pawl Mechanism

(FRONT VIEW)

02 ENGAGING SURFACE
02 BEARING SURFACE
02 ENGAGING SURFACES (2 PLACES)
0 HOOKS—EACH END
02 BEARING SURFACE

BACK SPACE CAMMING BAIL
ADJUSTING PLATE
INTERMEDIATE ARM
SPRING
BACK SPACE CAMMING BAIL

REVERSE LINE FEED MECHANISM

3.17 Typing Unit—Bottom View

3.18

3.19
3.18 Trip Mechanism

![Diagram of Trip Mechanism](image_url)

(LIGHT SIDE VIEW)

LOCAL BACKSPACE MECHANISM (Cont’d)

3.19 Trip Mechanism

![Diagram of Trip Mechanism](image_url)

(LIGHT SIDE VIEW)
REVERSE LINE FEED MECHANISM (Cont'd)

3.20 Typing Unit - Rear Left View

3.21 Line Feed Mechanism

(RIGHT SIDE VIEW)
3.22 Typing Unit - Rear Left End View

3.23 Drive Mechanism

- G TEETH
- O PIVOT
- O2 BEARING SURFACE
- IDLER GEAR
- ADJUSTABLE ARM
- HANDWHEEL
- GEARS
- BLOCKING ARM
- SPRING
- SLIDE

(LEFT SIDE)
PAPER-OUT ALARM MECHANISM

3.24 Operating Mechanism

CONTINUOUS SPACING MECHANISM

3.25 Trip Mechanism
3.26 Slide Arm Bracket

02 ENGAGING SURFACE (TWO BRACKETS)
SAT FELT WASHERS (EACH END)
02 ENGAGING SURFACE (EACH END)

C.R. SLIDE ARM BRACKET
L.F. SLIDE ARM BRACKET
CONNECTING LINK
COMPRESSION SPRING (LP 6 & 9 ONLY)

3.27 Compression Spring

3.28 Typing Unit - Rear View
HORIZONTAL TABULATOR MECHANISM - LATER DESIGN

3.29 Typing Unit - Front View

3.30 Typing Unit - Bottom View
3.31 Blocking Lever

- Spacing Drum
- Engaging Surface Tabulator Stops
- Bearing Surface Tabulator Pawl
- Hooks - Each End Springs
- Bearing and Guide Surface Blocking Lever

3.32 Slide Arm

3.33 Operating Lever

- Engaging Surface with Blocking Lever and Bracket
- Hooks - Each End
- Bearing Surface
- Contacting Surface with Adjusting Plate
- Bearing Surface
- Operating Lever
- Operating Lever Slide Arm
- Slide Arm Spring
- Operating Lever Slide Arm
- Operating Lever
- Triplet Lever Arm Latch Bail
- Operating Lever
- Operating Lever
3.39 Oscillating Lever

TWO COLOR RIBBON MECHANISM

SAT

FEEL WASHERS (OSC. LEVER & ROLLER BAIL)

ENGAGING SURFACES

OSC. LEVER & ROLLER BAIL SUPPORT SHAFT

RIBBON REVERSING LEVERS

SHFT MTG. SURFACE

3.40 Ribbon Operating Mechanism

SAT

FEEL WASHERS

RIBBON RATCHET

HINGE AND STOP LEVER

ENGAGING SURFACES

RIBBON MAGNET BRACKET

RIBBON SPOOL BRACKET
UNIVERSAL CONTACT (STUNT BOX) MECHANISM

3.41 Stunt Box - Rear View

3.42 Operating Mechanism

- BEARING SURFACE
- LATCH CAM
- SURFACE
- CAMS
- LATCHING SURFACE
- LATCH LEVER
- ENGAGING SURFACE
- INSULATOR
- HOOKS - EACH END
- SPRING
- BEARING SURFACE
- LATCH LEVER
VERTICAL TABULATION AND TRANSMITTER DISTRIBUTOR CONTROL MECHANISM

3.43 Control Mechanism

(LEFT VIEW)
SEE PAR. 3.22

PAGE FEED-OUT
IDLER
HANDWHEEL
ADJUSTABLE ARM
ADJUSTABLE ARM AND BLOCKING LEVER
BLOCKING LEVER
PAGE FEED-OUT AND VERTICAL TAB
SECTION 573-115-701

FORM ALIGNMENT SWITCH MECHANISM

3.44 Operating Mechanism

3.45 Contact Mechanism
DC MAGNET OPERATED PRINT SUPPRESSION MECHANISM

3.46 Suppression Mechanism

[Diagram]

NOTE --- KEEP OIL AND GREASE OFF OF POLE FACE

LETTERS-FIGURES CODEBAR SHIFT MAGNET MECHANISM

3.47 Shift Magnet Mechanism

[Diagram]

NOTE --- KEEP OIL AND GREASE OFF OF POLE PIECE
PRINT SUPPRESSION AND OFF-LINE STUNT SHIFT CONTROL MECHANISM

3.48 Shift Mechanism

NOTE: AVOID GETTING OIL OR GREASE ON MAGNET POLE FACE.

FORM FEED-OUT MECHANISM

3.49 Feed-Out Bail

TYPING UNIT LEFT FRAME VIEWED FROM REAR RIGHT

PIVOT

LOOP

FORM FEED-OUT BAIL

TORSION SPRING