28 TYPING UNIT
LUBRICATION

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# Section 573-115-701TC

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## 1. General

### 1.01 This section provides lubrication requirements for the Model 28 typing unit. It is reissued to include the latest engineering changes. Because the changes are quite extensive, arrows normally used in the margin to indicate change have been omitted. To remove the typing unit from the teletypewriter set, refer to Section 573-115-702TC.

### 1.02 Lubrication of the typing unit is presented by mechanisms. Photographs show numbered callouts which correspond to paragraphs containing line drawings. These line drawings show the specific points of each mechanism to be lubricated.

### 1.03 References to front, rear, left, right, etc, apply to the typing unit as viewed by the operator facing the unit.

### 1.04 Lubricate the typing unit just prior to placing it in service. After 300 to 500 operating hours, relubricate the typing unit. Recheck all clutch gaps; reset if necessary. Thereafter, use the following lubrication interval:
LUBRICATION INTERVAL
(Based on 5-Day Week)

<table>
<thead>
<tr>
<th>Daily Operation of Keyboard</th>
<th>0-8 hrs</th>
<th>8-16 hrs</th>
<th>16-24 hrs</th>
</tr>
</thead>
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<tr>
<td>Speed (wpm)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>60</td>
<td>52 wks</td>
<td>39 wks</td>
<td>26 wks</td>
</tr>
<tr>
<td>66</td>
<td>52 wks</td>
<td>39 wks</td>
<td>26 wks</td>
</tr>
<tr>
<td>75</td>
<td>52 wks</td>
<td>39 wks</td>
<td>26 wks</td>
</tr>
<tr>
<td>100</td>
<td>39 wks</td>
<td>26 wks</td>
<td>13 wks</td>
</tr>
<tr>
<td>Newly Installed Equipment</td>
<td>3 wks</td>
<td>2 wks</td>
<td>1 wk</td>
</tr>
</tbody>
</table>

Note: For a 6-day week operation, reduce lubrication intervals 15 percent. For a 7-day week operation, reduce lubrication intervals 30 percent.

1.05 Apply KS7470 oil wherever the use of oil is indicated. Apply KS7471 grease on all surfaces wherever indicated. Whenever clutches are disassembled, apply a thin coat of grease to the shoe lever spring loops, and oil to the internal mechanisms. Fill lubricator reservoir at indicated intervals.

CAUTION: DISCONNECT POWER BEFORE APPLYING ANY LUBRICANT.

1.06 Apply a thick film of grease to all gears and the spacing clutch trip cam plate. Apply oil to all cams, including the camming surfaces of each clutch disc. The following symbols apply to the lubrication points in each paragraph.

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>MEANING</th>
</tr>
</thead>
<tbody>
<tr>
<td>O</td>
<td>Apply KS7470 oil</td>
</tr>
<tr>
<td>G</td>
<td>Apply KS7471 grease</td>
</tr>
<tr>
<td>SAT</td>
<td>Saturate with KS7470 oil</td>
</tr>
</tbody>
</table>

1.07 Lubricate the typing unit thoroughly. Saturate all felt washers and oilers, and apply oil to each end of all springs. Apply oil to points where it will adhere and not run off. Avoid over lubrication. Keep electrical contacts and wire insulations free of lubricants. In general, apply oil to all bearings, wicks, and locations where parts rub, slide, or move with respect to each other. Apply grease to gear teeth and points of heavy pressure.
SECTION 573-115-701TC

2. BASIC UNIT

COMMON AREAS

2.01 Printing Area

2.02 Printing Mechanism

- SAT Felt Washers (2)  
- Spring Felt Wick  
- Engaging Surface  
- Secondary Printing Arm

- G Engaging Surface  
- Secondary Printing Arm  
- Printing Hammer Stop  
- Printing Hammer

- SAT Spring Felt Wick  
- Printing Hammer  
- Hooks  
- Springs

- O Felt Washer  
- Engaging Surfaces  
- Operating Bail Latch

(Front View)

(Top View)
2.03 Printing Mechanism (continued)

(Front View)

2.04 Typebox Carriage Mechanism

(Rear View)
SECTION 573-115-701TC

2.05 Paper Feed Area

2.06 Paper Feed Mechanism

(Front View)

Hooks
Bearing Surface
Bearing Surface
Teeth (2 Gears)
Bearings
Bearing Surfaces
Bearing Surfaces
Bearing Surfaces
Bearing Surfaces
Hooks
Bearing Surface
Bearing Surfaces
Spring
Platen Detent Bail
Paper Finger Shaft
Platen Gears
Platen Shaft
Paper Pressure Roller Shafts
Paper Straightener Shaft
Paper Straightener Levers
Spring
Release Lever
Release Lever Link
2.07 Codebar Area

2.08 Codebar Detents

2.09 Codebar Mechanism
2.10 Ribbon Area

(Right Side View)

2.11 Ribbon Feed Mechanism

- Bearing Surface
- Felt Washer
- Bearing Surface
- Hooks
- Engaging Surface
- Hooks
- Teeth

- Ribbon Roller Shaft
- Ribbon Spool Shaft
- Ribbon Spool Toggle
- Ribbon Feed Lever Spring
- Ribbon Detent Lever
- Ribbon Ratchet Wheel Spring
- Ribbon Ratchet Wheel

(Right Side View)
2.12 Ribbon Feed Mechanism (continued)

(Rear View)

SAT  Felt Washers  Ribbon Feed Lever Bail
O  Bearing Surface  Ribbon Lever
O  Hooks  Spring
O  Bearing Surface  Ratchet Feed Lever Shaft
O  Bearing Surface  Ribbon Detent Lever Shaft

(Right Side View)

O  Engaging Surface  Ribbon Reversing Arm
O  Bearing Surface  Ribbon Reverse Levers
O  Engaging Surface  Ribbon Reverse Lever
G  Teeth  Ribbon Reverse Spur Gear
2.13 Vertical Positioning Mechanism

(Right Side View)
2.14 Ribbon Area (continued)

(Left Rear View)
2.15 Ribbon Feed Mechanism (continued)

Hooks       Spring
Bearing Surface Ribbon Spool Shaft
Bearing Surface Ribbon Roller Shaft
Felt Washer  Ribbon Spool Shaft

Hooks       Spring
Engaging Surface Ribbon Detent Lever

Felt Washers Ribbon Feed Lever Bail
Bearing Surface Ribbon Reverse Lever
Teeth       Ribbon Ratchet Wheel
Hooks       Spring
Engaging Surface Ribbon Detent Lever Shaft
Bearing Surfaces Ratchet Feed Lever Shaft

2.16 Ribbon Feed Mechanism (continued)

Bearing Surface Ribbon Reverse Lever
Engaging Surface Ribbon Reversing Lever
Engaging Surface Ribbon Reverse Lever
Teeth       Ribbon Reverse Spur Gear
2.17 Vertical Positioning Mechanism (continued)

- Guiding Surface
- Engaging Surfaces
- Bearing Surface
- SAT Felt Washer
- SAT Felt Washers (2)
- SAT Felt Oiler
- Camming Surface
- Ball Bearing
- Hooks
- SAT Spring Felt Wick
- Bearing Surface
- Bearing Surface

Striker Blade
Vertical Positioning Locklever
Ribbon Drive Link
Vertical Positioning Link
Main Side Lever
Rocker Shaft Bracket
Main Side Lever
Follower Arm
Main Rocker Shaft
Spring
Rocker Shaft Bracket
Stripper Blade Arm

(Left Side View)
2.18 Selector Area

(Right Side View)

2.19 Codebar Mechanism (continued)

(Right Side View)

Guide Slots
Engaging Surface
Bearing Guide Slots
Roller Bearings
Felt Washers
Hooks
Guide Slots
Bearing Surfaces
Bearing Guide Slots
Felt Washer
Oil Hole

Shift Levers
Shift and Transfer Levers
Transfer Lever Guide Bearing
Shift Lever Link Rollers
Shift Lever Link Shaft
Springs
Intermediate Arms and Transfer Levers
Shift Levers
Intermediate Arm Guide Bearing
Shift Lever Link
Shift Lever Drive Arm Shaft
2.20 Selector Mechanism

(Right Side View)

2.21 Selector Mechanism (continued)

(Right Side View)
2.22 Function Area

(Rear View)
2.23 Stunt Box Mechanism

Guide Slots  Function Levers
Guide Slots  Function Pawls
Each Felt Wick Function Pawl Springs
Guide Slots  Function Bars
Hooks        Springs
Engaging Surfaces Function Bars (Front and Rear)
Guide Surfaces Line Feed Slide Arm
Hooks        Spring
Bearing Surface Keyboard Locklever
Engaging Surfaces Function Levers

2.24 Stripper Blade Mechanism

Engaging Surface  Line Feed Stripper Slide
Guide Surfaces    Stripper Slide
Engaging Surfaces Stripper Blade
Guide Surfaces    Stripper Blade
Engaging Surface  Stripper Blade

Engaging Surfaces Line Feed Function Pawl Stripper
Guiding Surface   Stripper Blade
Upper and Lower Surface Stripper Blade
Guiding Surface   Stripper Bail
SECTION 573-115-701TC

2.25 Function Area (continued)

2.26 Ribbon Reverse Mechanism

- Engaging Surface
- Bearing Surface
- Ribbon Reverse Detent
- Paper Release Lever
- Ribbon Reverse Spur Gear
- Ribbon Reverse Shaft
- Spring
- Ribbon Reverse Detent
2.27  Shift Mechanism

(Top View)

O Engaging Surfaces  Letters Function Slide
O Engaging Surface  Figures Function Slide
O Guiding Surfaces  Letters and Figures Function Slides
O Engaging Surface  Letters-Figures Codebar Fork

2.28  Function Rocker Shaft Mechanism

(Rear View)

SAT Felt Washer  Space Suppression Bail
O Guide Surface  Carriage Return Slide Arm
SAT Felt Washers (2)  Function Rocker Shaft
SAT Felt Washers (2)  Function Bail
SAT Felt Washers (2)  Toggle Link
SAT Function Bail
SECTION 573-115-701TC

2.29 Spacing Area

2.30 Spacing Drum Drive Mechanism (Late Design)

- Cable Grooves
- Teeth
- Oiler
- SAT
- Engaging Surfaces
- Apply Around Periphery of Cup
- Spacing Drum
- Spacing Drum Ratchet
- Spacing Drum Shaft
- Carriage Return Latch
- Bail
- Transfer Slide
- Dashpot

(Front View)
2.31 Spacing Drum Drive Mechanism (Early Design)

(Front View)

- Engaging Surface Space Pawls (2)
- Engaging Surface Spacing Cutout Lever
- Bearing (Outer and Inner End) Spacing Drum Shaft
- Engaging Surface Transfer Slide
- Roller Bearing Stop Arm Roller
- Engaging Surfaces Carriage Return Latch Bail
- Apply Around Periphery of Cup Dashpot
- Hooks Springs
- Bearing Surfaces Spacing Pawls Eccentrics

(Bottom View)

- Bearing Surfaces Carriage Return Latch Bail
- Felt Wick Spring Wick
- Roller Bearings Transfer Slide Rollers
- Teeth Spacing Drum Ratchet Wheel
- Cable Grooves Spacing Drum
2.32 Carriage Return Mechanism

SAT        Felt Oiler
O          Between Layers
G         Cam Disc Surface
O          Bearing (Outer and Inner End)
O          Hooks
SAT        Spring Felt Wick
O          Bearing Surface
O          Felt Oiler
O          Bearing Surface
O          Cable Grooves

(Front View)

SAT        Printing Track Guide
O          Carriage Return Spring
G         Margin Indicator Cam Disc
O          Carriage Return Spring Drum Shaft
O          Spring
O          Tension Pulley Bail
O          Tension Pulley Bail
O          Main Bail
O          Pulley
O          Carriage Return Spring Drum

2.33 Spacing Drum Feed Mechanism

(S SAT)        Engaging Surfaces
O            Automatic Carriage Return Bellcrank
O              Engaging Surfaces
O              Automatic Carriage Return Bellcrank
O              Spacing Drum Feed Pawl Release Link
O              Spring
O              Spacing Drum Feed Pawl Release Link
O              Spring
O              Bearing Surfaces
O              Hooks

(Front View)

2.34 Track Guide Mechanism

SAT        Felt Oiler
O          Printing Track Guide

(Front View)

Page 22
2.35 Horizontal Positioning Area

2.36 Horizontal Positioning Mechanism

(Front View)
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2.37 Horizontal Positioning Mechanism (continued)

(Top View)

Hooks Felt Washer Codebar Bellcrank
Engaging Surfaces Horizontal Motion Stop Slides

2.38 Horizontal Positioning Mechanism (continued)

(Front View)

Hooks Springs
Bearing Surfaces Decelerating Slide Bellcranks
Engaging Surfaces Decelerating Slides
Felt Washers Shift Slide Drive Links
Bearing Surfaces Shift Slide Drive Links

2.39 Horizontal Positioning Mechanism (continued)

(Front View)

Guiding Surface Horizontal Positioning Locklever
Hooks Spring
Bearing Surface Horizontal Locklever Arm Roller
Felt Wick Spring
Felt Washer Horizontal Positioning Locklever
2.40 Letters-Figures Shift Area

2.41 Letters-Figures Shift Mechanism

(Front View)

O Guiding Surfaces Shift Link Breaker Slide

SAT Felt Washer Letters-Figures Shift Slide Post

O Bearing Surfaces Letters-Figures Shift Slide

SAT Felt Washer Letters-Figures Shift Slide Post
2.42 Letters-Figures Shift Mechanism (continued)

(Front View)

SAT  Felt Washer  Shift Slide Drive Link
Bearing Surface  Breaker Slide Bail
Bearing Surfaces  Main Bail Link

(Front View)

SAT  Felt Washer  Shift Slide Drive Link
Bearing Surface  Breaker Slide Bail
Bearing Surfaces  Main Bail Link

2.43 Oscillating Mechanism

(Front View)

SAT  Felt Washers (3)  Pulleys
SAT  Felt Oiler  Oscillating Rail Slide
O  Bearing Surface  Oscillating Rail Shift Link
O  Bearing Surface  Oscillating Rail Shift Link
SAT  Felt Washer  Oscillating Rail Guide Arm
2.44 Oscillating Mechanism (continued)

SAT Felt Washers (3) Pulleys

Bearing Surfaces Oscillating Rail Shift Link

SAT Felt Washer Oscillating Rail Guide Arm

(Front View)

2.45 Main Shaft Area

(Bottom View)
SECTION 573-115-701TC

2.46 Main Shaft — Clutches, Gears, etc

SAT Felt Washer Drive Link
SAT Internal Clutch Assemblies
Mechanisms (Felt Wicks and Springs)
SAT Teeth (4 Gears) Main Shaft Gears
SAT Bearing Surfaces Clutch Sleeves
SAT Ball Bearing Main Shaft Bearing
SAT Camming Surfaces Clutch Discs
SAT Bearing Surface Drive Link Bearing

(Bottom View)

2.47 Main Shaft Mechanism

SAT Felt Washers Eccentric Follower
SAT Arm Bearings
SAT Internal Clutch Assemblies
Mechanisms (Felt Wicks and Springs)
SAT Bearing Surfaces Eccentric Follower
SAT Arm Cam
SAT Ball Bearing Main Shaft Bearing
SAT Bearing Surfaces Clutch Sleeve
SAT Camming Surfaces Clutch Discs

(Bottom View)
2.48 Selector Cam Clutch Assembly

(Front View)

2.49 Main Shaft — Clutches, Gears, etc (continued)

(Bottom View)
2.50 Spacing Area (continued)

2.51 Spacing Mechanism

- O: Engaging Surfaces
- SAT: Felt Washers
- Hooks
- G: Engaging Surface
- Trip Lever Bail
- Trip Reset Cam
- Springs
2.52 Spacing Mechanism (continued)

O Oil Hole Spacing Shaft

G Teeth Spacing Shaft Gear

(Left Side View)

2.53 Spacing Mechanism (continued)

O Engaging Surface Spacing Cutout
SAT Transfer Bail

SAT Felt Washers (2) Spacing Cutout Transfer Bail

SAT Felt Washer Spacing Cutout Bail

O Engaging Surface Spacing Cutout Bail

SAT Felt Washers (2) Carriage Return Bail Shaft

O Hooks Spring

(Right Side View)
SECTION 573-115-701TC

FRICITION FEED AREAS

2.54 Line Feed Area

(Rear View)

2.55 Line Feed Mechanism

(Right Side View)
SPROCKET FEED AREAS

2.56 Line Feed Area

2.57 Line Feed Mechanism

(Rear View)

(Right Side View)
2.58 Paper Guide Area

2.59 Paper Guide Mechanism

(Rear View)

(Right Side View)
3. VARIATIONS TO BASIC UNIT
HORIZONTAL TABULATOR MECHANISM (EARLY DESIGN)

3.01 Tabulator Shaft Mechanism

3.02 Space Suppression Mechanism
SECTION 573-115-701TC

HORIZONTAL TABULATOR MECHANISM (EARLY DESIGN) (continued)

3.03 Operating Lever Mechanism

(Left Side View)

- Engaging Surfaces
- Hooks
- Engaging Surface
- Bearing Surface
- Bearing Surfaces
- Bearing Surface
- Hooks
- Guide Surface
- Engaging Surfaces
- Bearing Surface

- Spacing Trip Arm
- Spring
- Operating Lever
- Blocking Arm
- Trip Arm Latch Bail
- Operating Lever
- Spring
- Blocking Arm
- Slide Arm
- Slide Arm
3.04 Spacing Clutch Mechanism

(Right Side View)

SELECTIVE CALLING MECHANISM

(Rear View)
SECTION 573-115-701TC

3.05 Stripper Bail Mechanism

- Bearing Surfaces
- Engaging Surfaces
- Engaging Surfaces
- SAT Felt Washers (4)
- SAT Felt Washer
- Guide Slots
- Camming Surfaces
- Camming Surfaces
- SAT Felt Washers (4)
- Driving Cam
- stripe Blade Driving Arm
- Codebar Forks
- Sliding Surfaces
- Hooks
- Rollers and Pivots
- Sliding Surfaces
- Engaging Surfaces
- Engaging Surface
- Guide Surfaces
- Engaging Surfaces
- Engaging Surface
- Guide Surfaces
- Guide Surfaces
- Engaging Surface
- Line Feed Stripper Slide
- Striper Slide
- Stripper Blade
- Stripper Blade
- Stripper Bail

Page 38
SELECTIVE CALLING MECHANISM (continued)

3.07 Single-Double Line Feed Mechanism

(Right Side View)

(Rear View)

3.07

Single-Double Line Feed Lever

Pivot

Engaging Surface

Guide Surfaces

Felt Washer

Engaging Surfaces

Coils

Hooks

Stripper Bail

Operating Arm

Operating Arm

Operating Arm

Operating Arm

Torsion Spring

Spring

Spring
3.08 Function Reset Bail Mechanism

- O: Hooks
- SAT: Felt Wicks (2)
- SAT: Felt Washers (2)
- SAT: Felt Washers
- SAT: Felt Washers (2)
- SAT: Felt Washer
- G: Engaging Surface
- SAT: Felt Washer
- Drive Link
- Function Bar Reset Bail
- Function Cam Roller
- Cam Roller Bracket Link

SELECTIVE CALLING MECHANISM (continued)
3.09 Clutch Suppression Mechanism

(Bottom Side View)
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LOCAL BACKSPACE MECHANISM

3.10 Pawl Mechanism

(Front View)

(Bottom View)
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REVERSE LINE FEED MECHANISM

3.12 Trip Mechanism

(Bottom View)

(Rear View)

3.12 Trip Mechanism

(Rear View)

(Last Side View)
3.13 Line Feed Mechanism

- Teeth (2 Gears) - Platen Spur Gears
- Guide Surface - Line Feed Bar Release Lever
- Guide Surfaces - Line Feed Bars (2)
- Hooks - Springs (2)
- SAT Felt Oiler - Line Feed Bar Bellcrank
- Bearing Surface - Line Feed Bar Bellcrank
- Hooks - Spring
- Bearing Surfaces - Line Feed Bar Eccentric
- Teeth - Line Feed Clutch Spur Gear
- Bearing Surface - Spur Gear
- Bearing Surface - Line Feed Bar Bellcrank
- Teeth - Platen Spur Gear
- Bearing Surfaces - Intermediate Lever
- Bearing Surface - Roller
- Bearing Surface - Reverse Line Feed Slide Link
- Engaging Surfaces - Line Feed Bars (2)
- Hooks - Spring

(Right Side View)
3.14 Drive Mechanism

-Labeled Diagram -
- G Teeth
- O Pivot
- O Bearing Surface
- G Teeth
- O Pivot
- O Hooks
- O Engaging Surface

- Idler Gear
- Adjustable Arm
- Handwheel
- Gear
- Blocking Arm
- Spring
- Slide
PAPER-OUT ALARM MECHANISM

3.15 Operating Mechanism

(Left Side View)

CONTINUOUS SPACING MECHANISM

(Rear View)
3.16 Slide Arm Bracket

3.17 Compression Spring

3.18 Trip Mechanism
HORIZONTAL TABULATOR MECHANISM (LATE DESIGN)

(Front View)

(Bottom View)
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3.19 Blocking Lever

3.20 Spacing Cutout Transfer Bail

3.21 Bail Extension Arm
3.22 Latch Bail

(Right Side View)

3.23 Operating Lever

(Right Side View)

3.24 Intermediate Bail

(Right Side View)
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3.25 Slide Arm

3.26 Operating Lever (continued)

(Right Side View)
TWO-COLOR RIBBON MECHANISM

3.27 Oscillating Lever

(Top View)

3.28 Ribbon Operating Mechanism

(Right Side View)
3.29 Operating Mechanism

- **O** Bearing Surface
- **G** Latching Surface
- **G** Engaging Surface
- **O** Latch Cam
- **O** Latchlever
- **O** Insulator
- **O** Hooks
- **O** Spring
- **O** Bearing Surface
- **O** Latchlever

(Rear View)

(Right Side View)
3.30 Control Mechanism

- G Gear
- G Gear
- O Bearing
- O Pivot
- O Bearing Surface
- O Spring
- O Pivot
- O Slides (2)
- Page Feed-Out
- Idler
- Handwheel
- Adjustable Arm
- Adjustable Arm and Blocking Lever
- Blocking Lever
- Page Feed-Out and Vertical Tab
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FORM ALIGNMENT SWITCH MECHANISM

3.31 Operating Mechanism

3.32 Contact Mechanism
DC MAGNET OPERATED PRINT SUPPRESSION MECHANISM

3.33 Suppression Mechanism

(Left Side View)

LETTERS-FIGURES CODEBAR SHIFT MAGNET MECHANISM

3.34 Shift Magnet Mechanism

(Left Side View)
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PRINT SUPPRESSION AND OFF-LINE STUNT SHIFT CONTROL MECHANISM

3.35 Shift Mechanism

![Shift Mechanism Diagram](Left Side View)

- O: Hooks
- G: Bearing Surface
- SAT: Felt Washers
- Armature Ext and Blocking Lever Ext
- Blocking Lever
- Pivot (2)
- Armature

FORM FEED-OUT MECHANISM

3.36 Feed-Out Bail

![Feed-Out Bail Diagram](Right Rear View)

- O: Pivot
- Form Feed-Out Bail
- Loop
- Torsion Spring

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