28 TELETYPewriter BASE
(KEYBOARD SEND-RECEIVE BASE
AND RECEIVING-ONLY BASE)

LUBRICATION

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## 3. EARLIER DESIGN KSR BASE (KEYBOARD)

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## 4. RECEIVING-ONLY (RO) BASE

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## 5. ASSOCIATED BELL SYSTEM PRACTICES ...

### 1. GENERAL

1.01 This section provides the specific lubrication routines for the maintenance of the 28 teletypewriter base (KSR base and RO base) including variable and auxiliary features. Teletypewriter bases of the KSR type are also referred to as keyboards. This material, together with that contained in the section entitled Teletypewriter Apparatus, Lubrication, General Information and Routines, gives the complete information for lubricating the unit. The lubrication symbols used herein are the same as those in the general section. However, the symbol O is used in this section to mean only one drop of oil. The symbol O2 is used to specify 2 drops of oil.
1.02 The section is reissued to:
(a) Add a more detailed table of contents.
(b) Improve the locator photographs by labeling the identifying arrows with the names of the mechanisms instead of paragraph numbers.
(c) Revise 2.16 as authorized by Section P98.995.
(d) Add six new locator photographs (2.29, 2.37, 2.41, 2.43, 2.45, and 4.01) and seven line drawings (2.11, 2.40, 2.46, 2.47, 3.26, 3.27, and 3.28).
Marginal arrows are not used to indicate changes.

1.03 The keyboard or base should be lubricated before being placed in service as specified in the section entitled Preparation of Teletypewriter Apparatus for Installation. After a few weeks in service, it should ordinarily be relubricated to make certain that all the specified points have received lubricant. Thereafter, because of the varying conditions at each station, the keyboard or base should be lubricated as often as specified by the local instructions. The following lubrication intervals are suggested as a guide for use under normal operating conditions.

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<td>(Whichever occurs first)</td>
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<td>60</td>
<td>3000 hours or 1 year</td>
</tr>
<tr>
<td>75</td>
<td>2400 hours or 9 months</td>
</tr>
<tr>
<td>100</td>
<td>1500 hours or 6 months</td>
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</table>
2. LATER DESIGN KSR BASE (KEYBOARD)

2.01 Spacebar, Keylever, Breaklever, Keyboard Lock, and Codelever Mechanisms

[Image of a diagram showing the spacebar, keylever, breaklever, keyboard lock, and codelever mechanisms]
2.04 Breaklever

- ENGAGING SURFACE
- BEARING SURFACE
- CONTACT SURFACE

G CONTACT SURFACE

BREAK KEYLEVER
FUNCTION LEVER
BREAK LEVER

2.05 Keyboard Lock

- GUIDE SLOT
- HOOKS-EACH END
- BEARING SURFACE
- ENGAGING SURFACE
- BEARING SURFACE

0 GUIDE SLOT
0 HOOKS-EACH END
0 BEARING SURFACE
0 ENGAGING SURFACE
0 BEARING SURFACE

KEYBOARD LOCK PLUNGER
SPRING
KEYBOARD LOCK LEVER
KEYBOARD LOCK FUNCTION LEVER
FUNCTION BAIL
G CONTACTING SURFACE (32 LEVERS)

0 GUIDE SLOTS (32 LEVERS)

FELT WASHERS (6 WASHERS)

0 BEARING SURFACE (32 WEDGES)

0 HOOKS-EACH END (40 SPRINGS)

CODE LEVER UNIVERSAL BAIL

CODE LEVERS

CODE LEVER SHAFT

LOCK BALL TRACK

SPRING
2.07 Codebar and Local Carriage Return Mechanisms

CODEBAR

LOCAL CARRIAGE RETURN
2.08 Codebar

- Hooks—Each End (7 Springs)
- Guide Slots (Left and Right—Top and Bottom)
- Spring
- Code Bar Guides

2.09 Local Carriage Return

- Hooks—Each End Spring
- Bearing Surface (2 Places)
- Local Carriage Return Function Bail
- Engaging Surface
- Local Carriage Return Function Lever
2.10 Nonrepeat Lever, Transfer Lever, Contact Box, Transfer Bail, Function Clutch, Margin Indicator, Shaft, Local Line Feed, and Intermediate Gear
2.11 Nonrepeat Lever (Later Design)

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

2.12 Transfer Lever

- GUIDE SLOTS
- HOOKS – EACH END (7 SPRINGS)
- GUIDE SLOTS
- GUIDE SLOTS
- SAT
- FELT WASHERS (4 WASHERS)
- GUIDE SLOTS
- TRANSFER LEVERS
- TRANSFER LEVERS
- TRANSFER LEVERS
- TRANSFER LEVERS
- TRANSFER LEVERS
- TRANSFER LEVERS
- TRANSFER LEVERS
- TRANSFER LEVERS
2.13 Contact Box

Note: Grease sparingly. Keep contacts free of oil or grease.

G ENGAGING SURFACE
0 HOOKS-EACH END SPRING

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

2.14 Transfer Bail

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

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

2.16 **Margin Indicator** (Front View)

- ENGAGING SURFACE
  (DO NOT LUBRICA TE IF SWITCH HAS A NYLON ACTUATOR)
- MARGIN INDICATOR SWITCH LEVER
- BEARING SURFACE
- HOOKS-EACH END
- SPRING
2.17 Shaft

SAT
FELT WASHER

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
2.18 Local Line Feed

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

2.19 Intermediate Gears

- TEETH (2 GEARS)
- INTERMEDIATE GEARS
- BALL BEARING (2 BEARINGS)
- INTERMEDIATE GEAR SHAFT

(For motor, see section entitled 28 Motor Unit, Lubrication)
2.20 Locking Bail, Universal Bail, and Codebar Bail, Latchlever
2.21 Locking Bail
- Hooks-each end
- Sat
- Felt washers (2 washers - front and rear)
- Sat
- Felt wick
- 0
- Guide slots (3 slots)
- Locking bail

2.22 Universal Bail Latchlever
- Hooks (each end)
- Sat
- Felt washer
- Guide slot (each side of slot)
- Engaging surface
- 0
- Locking bail
- Universal bail latch lever
- Reset bail latch
2.23 Codebar Bail

- FELT WASHERS (TWO WASHERS)
- BEARING SURFACE (2 PLACES)
- HOOKS-EACH END (2 SPRINGS)
- FELT WASHER
- BEARING
- BEARING SURFACE
- ENGAGING SURFACE
- CODE BAR BAIL
- CODE BAR BAIL
- SPRING
- CODE BAR BAIL LATCH
- CODE BAR BAIL
- CODE BAR BAIL LATCH
- ECCENTRIC FOLLOWER
2.24 Electrical Line Break, Codelever Universal Bail, Lockbar Latch and Paper Feedout Mechanisms
2.25 Electrical Line Break

- HOOKS-EACH END SPRING
- CONTACT SURFACE SENSITIVE SWITCH
- BEARING SURFACE BREAK LEVER

2.26 Codelever Universal Bail

- HOOKS-EACH END SPRING
- BEARING SURFACE CODE LEVER UNIVERSAL BAIL
2.27 Lockbar Latch

BEARING SURFACE

LOCK BAR LATCH

2.28 Paper Feedout

ENGAGING SURFACE

LOCAL LINE FEED

TRIP LINK

HOOKS-EACH END

SPRING

BEARING SURFACE

LEVER

ENGAGING SURFACE

MAGNETIC BLOWOUT

SWITCH
2.29 Answerback Mechanism

- ARMATURE
- STOPLEVER
- CODEBARS AND SENSING LEVERS
- DRIVING MECHANISM
- STEPPING PAWL
2.31 Answerback: Stoplever

CONTACTING SURFACE

LATCHING SURFACE

LATCH AND STOP LEVER

LATCH AND STOP LEVER
2.33 Answerback: Sensing Levers

- CAMMING SURFACES (5 PLACES)
- BEARING SURFACE
- BEARING SURFACE
- HOOK - EACH END
- HOOK - EACH END
- HOOKS - EACH END (5 SPRINGS)
- DETENT LEVER
- DETENT LEVER AND ROLLER
- SPRING
- DETENT LEVER ROLLER
- SPRINGS
- SPRING
Answerback: Codebars and Sensing Levers

- Engaging Surfaces (5 Places)
- Sensing Levers and Code Bars
- Bearing Surface (Both Sides)
- Levers Pivot and Side Plate
- Bearing Surfaces (5 Levers)
- Sensing Levers and Levers Pivot
- Guiding Surfaces (5 Places)
- Sensing Levers and Mounting Plate
2.35 Answerback: Driving Mechanism

- BEARING SURFACE
- ECCENTRIC STUD AND DRIVE LINK
- HOOK - EACH END SPRING
- ENGAGING SURFACE BLOCKING LEVER AND STOP LEVER
- SHAFT DRIVE PLATE
- BEARING SURFACE (2 PLATES) DRIVE PLATE SHAFT AND SIDE PLATE
- ENGAGING SURFACE DRIVE LINK AND STUD
- BEARING SURFACE BLOCKING LEVER AND LEVER PIVOT
- ENGAGING SURFACE BLOCKING LEVER AND EXTENSION
2.36 Answerback: Stepping Pawl

- Bearing Surface
- Stepping Pawl and eccentric stud
- Contacting surfaces
- Stepping pawl and code blades
- Hook - each end
- Spring
- Adjusting screw
- Lever and latch
- Front view
2.37 Blinding (Pulsing) Contacts and Repeat-space Mechanism
2.38 Blinding (Pulsing) Contacts — Camfollower Mechanism

NOTE -- AVOID GETTING GREASE OR OIL ON CONTACT SURFACES
2.39 Repeat-space Mechanism

(FRONT VIEW)

O HOOKS

SPRING

O PIVOT (BOTH SIDES)

SPACE REPEAT LEVER

ENGAGING SURFACES

NON-REPEAT LEVER AND SPACE KEYLEVER
2.40 Electrical Send-Receive Break Mechanism (Not Shown on a Locator Photograph)

NOTE --- AVOID GETTING OIL OR GREASE ON CONTACT SURFACE
2.41 Remote Control Gear Shift (Rear View)
2.42 Remote Control Gear Shift (Top Front View)

- Gear Teeth
- Felt Wicks (2)
- Felt Wick
- Loops - Each End
- Bearing Points
- Clutch Springs and Hubs (Light film during reassembly)
- OILITE Bearing Washers (4)
- OILITE Bearings (2) (Oil each side of bearings)
- OILITE Bearings (2) (Oil each side of bearings)
- Driven Gear Bearings
- Eight Gears Including Motor Pinion
- Spring Clutches
- Idler Gear
- Armature Spring
- Armature Shaft
- Idler Gear Bearings
- Spring Clutches
- Spring Clutches
- 60 and 100 WPM
- Driver Gear Bearings
2.46 Variable Speed Drive — Speed Selecting Mechanism

G GEARS (II INCLUDING MOTOR PINION AND PRINTER DRIVEN GEAR)

G SHAFT

O3 SHOULDER SCREW SELECTOR ECCENTRIC

O3 PIVOT SCREW SELECTOR LEVER

(TOP VIEW FROM REAR)
2.47 Variable Speed Drive — Speed Selecting Mechanism (Contd)

PIVOT POST
PIVOT POST
ROLLER AND SIDES OF GEARS
SELECTING LEVER
SELECTOR LINK
SELECTING LEVER
ROLLER

(LEFT VIEW)
Universal Keyboard Switch (Not Shown on a Locator Photograph)

Function lever and "Here is" keylever assembly.
3. EARLIER DESIGN KSR BASE (KEYBOARD)

3.01 Codelever, Local Carriage Return, Local Line Feed and Keyboard Lock Mechanisms.
3.02 Codelever

- G CONTACTING SURFACE
- O GUIDE SLOTS (34 LEVERS)
- SAT FELT WASHERS (7 WASHERS)
- O BEARING SURFACES (34 WEDGES)
- O HOOKS—EACH END (38 SPRINGS)

CODE LEVER BAIL
CODE LEVERS
CODE LEVER SHAFT
LOCK BALL TRACK
SPRING

3.03 Local Carriage Return

- O HOOK EACH END
- 02 BEARING SURFACE
- G ENGAGING SURFACE

SPRING
LOCAL CARRIAGE RETURN
TRIP SHAFT
LOCAL CARRIAGE RETURN
FUNCTION ARM
3.04 Local Line Feed

- 02 GUIDE SLOT
- 0 HOOKS-EACH END
- 02 BEARING SURFACE
- 02 BEARING SURFACE
- G ENGAGING SURFACE

- LOCAL LINE FEED TRIP LINK
- LOCAL LINE FEED TRIP ARM
- LOCAL LINE FEED TRIP SHAFT
- LOCAL LINE FEED FUNCTION ARM

3.05 Keyboard Lock

- 02 GUIDE SLOT
- 0 HOOKS-EACH END
- 02 BEARING SURFACE
- G ENGAGING SURFACE
- 02 BEARING SURFACE

- KEYBOARD LOCK PLUNGER
- SPRING
- KEYBOARD LOCK PLUNGER
- KEYBOARD LOCK FUNCTION ARM
- KEYBOARD LOCK ARM TRIP SHAFT
3.06 Margin Indicator, Contact Box, Codebar, and Keyboard Selector Mechanisms
3.07 Margin Indicator (Rear View)

- 02 Bearing Surface
- 0 Hooks—Each End
- 0 Contacting Surface
- Margin Indicator Contact Lever Spring
- Switch Plunger

3.08 Contact Box

Disassembly: Remove nut and lock washer securing contact box cover and remove cover.

- G Engaging Surface
- Contact Toggle
3.09 Codebar

- SAT: Felt Wick
- 0: Hooks—Each End
- 02: Guiding Surface
- G: Engaging Surface
- 02: Guiding Surfaces (2 Places)
- 02: Bearing
- SPRING WICK
- SPRING
- Code Lever Bail Latch Lever
- Code Lever Bail
- Non-Repeat Bell Cranks
- Code Lever Bail Latch Lever
- 02: Bearing Surfaces (2 Places)
- Non-Repeat Bell Cranks
- 0: Hooks—Each End
- SPRING
- 0: Guides—Left, Right and Center (7 Code Bars)
- Code Bar Guides
3.10 Keyboard Selector

- **02** GUIDE SLOTS (7 SLOTS)
- **02** BEARING SURFACES (FRONT AND REAR)
- **SAT** FELT WASHERS (2 WASHERS—FRONT AND REAR)
- **02** GUIDE SLOTS (7 SLOTS)
- **02** ROLLER BEARINGS (2 ROLLERS)
- **02** BEARING SURFACE
- **SAT** FELT WASHERS (2 WASHERS—FRONT AND REAR)
- **0** HOOKS—EACH END (3 SPRINGS)

- SELECTOR LEVERS
- ROCKERS BAIL
- LOCKING BAIL SHAFT
- SELECTOR AND TRANSFER LEVERS
- ROCKER BAIL DETENT
- ROCKER BAIL DETENT
- TRANSFER LEVERS SHAFT
- SPRING
3.11 Codebar Bail and Eccentric Follower

- 0 Hooks—Each End (4 Springs)
- Sat Felt Washers (Front and Rear)
- 02 Bearing Surface
- 0 Engaging Surface (7 Places)
- 02 Engaging Surface
- 02 Guide Slot
- Sat Felt Washer
- Spring
- Code Bar Bail Bearing
- Code Bar Bail Roller
- Code Bar Bail
- Eccentric Follower
- Eccentric Follower
- Code Bar Bail Latch Lever

3.12 Codelever Bail

- 0 Hooks—Each End
- 02 Bearing Surfaces (Right and Left)
- Spring
- Code Lever Bail
3.14 Intermediate Gears (For motor, see section entitled 28 Motor Unit, Lubrication)
3.15 Shaft

- SAT FELT WASHER
- G GEAR TEETH
- 020 OIL HOLE
- 04 INTERNAL MECHANISM
- SAT FELT WICK
- 02 CAMMING SURFACE
- SAT FELT GILER
- 02 CAMMING SURFACE EACH CAM
- SAT FELT WASHER

- SIGNAL GENERATOR SHAFT
- SIGNAL GENERATOR GEAR
- SIGNAL GENERATOR SHAFT
- KEYBOARD CAM CLUTCH
- CLUTCH DISK
- CAM SLEEVE FELT
- SIGNAL GENERATOR CAM SLEEVE
- SIGNAL GENERATOR SHAFT
3.16 Signal Generator and Time Delay Mechanisms (Rear View)

- Signal Generator
- Signal Generator Clutch
- Intermediate Lever
- Time Delay Mechanism
3.17 Time Delay Mechanism

- SAT FELT WASHER
- G BEARING SURFACE
- 02 GUIDE SLOT
- SAT FELT WASHER
- G TEETH (2 WHEELS)
- 02 BEARING SURFACE EACH END
- SAT FELT WASHER
- G ENGAGING SURFACE
- SAT FELT WASHER
- 0 HOOKS - EACH END (3 SPRINGS)
- ECCENTRIC FOLLOWER PAWL
- ECCENTRIC FOLLOWER PAWL
- ECCENTRIC FOLLOWER PAWL
- LATCH PAWL
- RATCHET WHEELS
- RATCHET WHEEL SHAFT
- CONTACT PAWL
- ECCENTRIC FOLLOWER PAWL
- LATCH LEVER
- SPRING
3.18 Signal Generator

02 BEARING SURFACE
SAT FELT WASHER
0 HOOKS—EACH END (2 SPRINGS)
02 ENGAGING SURFACE
02 BEARING SURFACE
02 BEARING SURFACE
02 BEARING SURFACE
02 GUIDE HOLE
DETENT TOGGLE
DETENT TOGGLE
SPRING
BREAK BAIL
OSCILLATING LEVER
BREAK ROD
BREAK LEVER
BREAK ROD

3.19 Signal Generator Clutch

0 HOOKS—EACH END (2 SPRINGS)
02 LATCHING SURFACE
SAT FELT WASHER (2 WASHERS—FRONT & REAR)
02 ENGAGING SURFACE
SPRING
CLUTCH STOP LEVER AND THROWOUT BAIL LEVER
THROWOUT BAIL AND TRIP BAIL
CLUTCH TRIP BAIL
3.20 Intermediate Lever (Signal Generator)

- 02 BEARING SURFACES (3 GUIDES)
- 02 ENGAGING SURFACES (3 PLACES)
- 02 BEARING SURFACE
- 0 HOOKS—EACH END (3 SPRINGS)
- SPRING
- FLUTTER LEVER
- INTERMEDIATE LEVER ROLLERS
- INTERMEDIATE LEVERS
3.21 Signal Line Break and Repeat-space Mechanisms (Rear View)

- Signal Line Break Mechanism
- Repeat-space Mechanism
3.22  Signal Line Break Mechanism

3.23  Repeat-space Mechanism
3.25 Paper Feedout

- 02 BEARING SURFACE
- 02 PIVOT POINT
- G ENGAGING SURFACE
- SWITCH LEVER
- TORSION SPRING
- SWITCH PLUNGER
- THIN FILM
Answerback: Blinding (Pulsing) Contacts (Not Shown on a Locator Photograph)

- Head of Shoulder Screw (Do Not Over-Lubricate)
- Finger Pivot
- Contacting Surface
- Finger and Swinger
- Note: Keep Oil and Grease Off of Contacts
- Camming Surface
- Finger Extension
- Contacting Surface
- Cam

Rear View
3.27 **Answerback: Driving Mechanism** (Not Shown on a Locator Photograph)

- **HOOK (EACH END)**
- **ENGAGING SURFACE**
- **BEARING SURFACES (2 PLACES)**
- **PIVOT POINT**

![Diagram of driving mechanism](image)
Note: Also lubricate according to 2.30 through 2.33.

- BEARING SURFACE
- CONTACTING SURFACE
- HOOK (EACH END)
- SHAFT (DURING INSTALLATION)
- CONTACTING SURFACES
- PIVOT

- STEPPING PAWL AND ECCENTRIC STUD
- STEPPING PAWL AND CODE BLADES
- STEPPING PAWL SPRING
- DRIVE PLATE
- STOP LEVER AND LATCH LEVER
- LATCH LEVER

FRONT VIEW

(Not Shown on a Locator Photograph) (Cont'd)
Signal Line Break Mechanism

4.01 REceiving-only (RO) Base
5. ASSOCIATED BELL SYSTEM PRACTICES

5.01 The following Bell System Practice contains an index of information that may be related to this section.

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