35 KEYBOARD FOR AUTOMATIC SEND-RECEIVE SETS

LUBRICATION

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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.

<table>
<thead>
<tr>
<th>Operating Speeds in Words per Minute</th>
<th>Lubrication Interval</th>
</tr>
</thead>
<tbody>
<tr>
<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>
</tr>
</tbody>
</table>

* 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.

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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

BEARING SURFACE (LEFT & RIGHT)

2.02 Keylever Mechanism

ENGAGING SURFACE (49 LEVERS)

KEYTOP LEVERS
2.03 Function Lever Mechanism

ENGAGING SURFACE \hspace{1cm} \text{FUNCTION KEY LEVER}
BEARING SURFACE \hspace{1cm} \text{FUNCTION LEVER}
CONTACT SURFACE \hspace{1cm} \text{FUNCTION LEVER}

2.04 Code Lever Mechanism

CONTACTING SURFACE (47 LEVERS) \hspace{1cm} \text{CODE LEVER UNIVERSAL BAIL}
GUIDE SLOTS (53 LEVERS) \hspace{1cm} \text{CODE LEVERS}
FELT WASHERS (8 WASHERS) \hspace{1cm} \text{CODE LEVER SHAFT}
BEARING SURFACES (47 WEDGES) \hspace{1cm} \text{LOCK BALL TRACK}
HOOKS-EACH END (50 SPRINGS) \hspace{1cm} \text{SPRING}
SECTION 574-222-701

REST KEYBOARD IN UPRIGHT POSITION

2.05 Code Bar Mechanism

- Hooks-each end (12 springs) - Spring
- Guide slots (left and right-top and bottom) - Code bar guides

2.06 Code Lever Universal Bail Mechanism

- Hooks-each end - Spring
- Bearing surface (both ends) - Code lever universal bail
2.07 Local Carriage Return Mechanism

REST KEYBOARD IN UPRIGHT POSITION

2.08 Non-repeat Lever Mechanism
2.09 Clutch Trip Bar Mechanism

![Clutch Trip Bar Mechanism Diagram]

\[G\text{ SLOT}\]

CLUTCH TRIP BAR WEAR PLATE

2.10 Transfer Lever Mechanism

![Transfer Lever Mechanism Diagram]

\[0\text{ GUIDE SLOTS}\]

TRANSFER LEVERS (10 LEVERS)

\[0\text{ HOOKS-EACH END (10 SPRINGS)}\]

SPRING

\[0\text{ GUIDE SLOTS}\]

TRANSFER LEVERS (10 LEVERS)

\[\text{SAT}\text{ FELT WASHERS (5 WASHERS)}\]

CAMMING SURFACES

\[0\text{ GUIDE SLOTS}\]

TRANSFER LEVERS (10 LEVERS)

2.11 Contact Box

![Contact Box Diagram]

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

\[G\text{ ENGAGING SURFACE}\]

CONTACT TOGGLE

\[0\text{ HOOKS-EACH END}\]

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  FEEL 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  FEEL WASHERS (2 FRONT & REAR)  CLUTCH TRIP BAIL
2.14 Local Line Feed Mechanism

- 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

2.15 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
- Signal Generator Cam
- 020
- Oil Hole
- Signal Generator Cam
- 02
- Camming Surface Each Cam
- Signal Generator Shaft
- 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
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

- HOOKS - EACH END
- SPRING

NOTE - KEEP CONTACTS FREE OF LUBRICANT.

- ENGAGING SURFACE
- INTERMEDIATE LEVER
3.04 Character Counter Mechanism

ENGAGING SURFACE
COUNTER SCALE BRACKET
BEARING SURFACE
INDICATORCORD PULLEY
HOOKS-EACH END
SPRING
BEARING SURFACE
RATCHET LATCH LEVER
BEARING SURFACE
RATCHET DRIVE LEVER

3.05 Character Counter Mechanism - continued

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

3.07 Auxiliary Contact
USE 3.06

3.08 Receive-Break Switch

3.09 Local Single Line Feed Mechanism

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