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1. GENERAL

1.01 This section contains illustrations on which specific lubrication points are indicated and the amount of lubricant specified. Photographs are also included to illustrate the area of the unit where the specific mechanisms are located. Since this is a general revision, marginal arrows have been omitted.

1.02 This section is reissued to bring it generally up to date, to indicate additional lubricant for the function reset bail roller bearing, and to rearrange the text matter and illustrations into more of a standard format.

1.03 The sequential selector should be lubricated as directed in this section. Lubricate the selector just prior to placing it in service. After a few weeks of service, relubricate the unit to make sure that all points have received lubrication. Thereafter, the following schedule should be followed:

<table>
<thead>
<tr>
<th>OPERATING SPEED (WPM)</th>
<th>LUBRICATION INTERVAL</th>
</tr>
</thead>
<tbody>
<tr>
<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>
</tr>
</tbody>
</table>

*Whichever occurs first.

1.04 Use KS7470 oil at all locations where the use of oil is indicated. Use KS7471 grease on all surfaces where grease is indicated.

1.05 All spring wicks and felt oilers should be saturated. Apply one drop of oil to each spring eye. The friction surfaces of all moving parts should be thoroughly lubricated. Avoid over lubrication.

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.

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.

1.09 Legend of symbols keyed to illustrations.

   O1 Apply 1 drop of oil.
   O2 Apply 2 drops of oil.
   O3 Apply 3 drops of oil.
   O20 Apply 20 drops of oil, etc.
   G Apply thin film of grease.
   SAT Saturate (felt oilers, washers, wicks) with oil.

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2. BASIC UNIT

2.01 SEQUENCE SELECTOR, RIGHT SIDE VIEW

2.02 RANGE FINDER MECHANISM

-G TEETH  RANGE FINDER KNOB AND RACK

-SAT FELT WASHERS CLUTCH TRIP LEVER (2 WASHERS)

-O1 HOOKS-EACH END SPRING
2.03 CODE BAR SHIFT MECHANISM

- O2 GUIDE SLOTS (6 SLOTS)
- O2 ENGAGING SURFACE (6 LEVERS)
- O2 BEARING GUIDE SLOTS (6 SLOTS)
- O2 ROLLER BEARINGS (4 ROLLERS)
- SAT FELT WASHERS (2 WASHERS)
- O1 HOOKS-EACH END (5 SPRINGS)
- O2 GUIDE SLOTS (5 SLOTS)
- O2 BEARING SURFACES (2 PLACES)
- O2 BEARING GUIDE SLOTS (5 SLOTS)
- SAT FELT WASHER
- O3 OIL HOLE

2.04 SELECTOR MECHANISM

- O2 BEARING GUIDE SLOTS (5 SLOTS)
- SAT FELT WICK
- O2 ENGAGING SURFACES (5 LEVERS)
- O2 GUIDE SLOT WICK
- O2 GUIDE SLOTS
- O1 HOOKS-EACH END (12 SPRINGS)
- FILL CUP (AVOID AIR LOCK)
- O2 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
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2.05 SEQUENCE SELECTOR, REAR VIEW
2.06 MAIN SHAFT

- MAIN SHAFT GEAR
- G TEETH
- MAIN SHAFT BEARING
- 02 BALL BEARING

2.07 MAIN SHAFT

- SAT FELT WASHER (2 WASHERS)
- ECCENTRIC FOLLOWER ARM BEARINGS
- 04 INTERNAL MECHANISM (2 CLUTCHES)
- CLUTCH ASSEMBLY
- SAT FELT WICKS
- ECCENTRIC FOLLOWER ARM CAMS
- 02 BEARING SURFACES (2 CAMS)
- 02 BALL BEARING
- MAIN SHAFT BEARING
- FUNCTION CAM
- 02 CAMMING SURFACE
- 02 BEARING SURFACES (2 CLUTCHES)
- CLUTCH SLEEVE
- 02 CAMMING SURFACES (3 DISKS)
- CLUTCH DISKS

2.08 SELECTOR CAM-CLUTCH

- SAT FELT WASHERS (2 WASHERS)
- SELECTOR CAM ASSEMBLY
- 02 CAMMING SURFACES
- CLUTCH DISK
- 04 INTERNAL MECHANISM
- SELECTOR CLUTCH
- SAT FELT WICK
- SELECTOR CAM
2.09 TRIP SHAFT

- 02 ENGAGING SURFACES (2 LEVERS)
- 02 ENGAGING SURFACES (2 LEVERS)
- 01 HOOKS-EACH END (3 SPRINGS)
- SAT FELT WASHER AND WICK
- SAT FELT WASHERS (4 WASHERS)
- CLUTCH TRIP LEVER
- CLUTCH LATCH LEVER
- SPRINGS
- CAM FOLLOWER ARM ROLLER
- CLUTCH TRIP LEVER SHAFT

2.10 FUNCTION RESET BAIL MECHANISM

- 01 HOOKS EACH END (2 SPRINGS)
- SPRINGS
- SAT FELT WICKS (2 SPRINGS)
- SPRINGS
- SAT FELT WASHERS (2 BEARINGS)
- CAM SHAFT
- 02 BEARINGS (3 ROLLERS)
- SAT FELT WASHERS (2 PIVOTS)
- 03 BEARINGS (EACH END)
- SAT FELT WASHERS (2 PIVOTS)
- G ENGAGING SURFACE
- 03 BEARING (OTHER SIDE)
- SAT FELT WASHER
- FUNCTION BAIL ROLLERS
- DRIVE LINK
- FUNCTION BAR
- RESET BAIL
- FUNCTION CAM ROLLER
- CAM ROLLER BRACKET LINK
2.11 STRIPPER BAIL MECHANISM

- 02 BEARING SURFACES (2 BEARINGS)
- SAT FELT WASHERS (4 WASHERS)
- G ENGAGING SURFACES (2 ARMS)
- G ENGAGING SURFACES (EACH ARM)
- 02 GUIDE SLOTS
- 02 GUIDE SLOTS
- 02 GUIDE SLOTS
- SAT EACH FELT WICK
- 01 HOOKS - EACH END
- 02 ENGAGING SURFACES (FRONT AND REAR)
- G CAMMING SURFACES (2 CAMS)
- SAT FELT WASHER

2.12 STRIPPER BLADE

- 02 GUIDE SURFACES (EACH END)
- G ENGAGING SURFACES (2 PLACES)

2.13 SHIFT MECHANISM AND RY MECHANISM

- 02 ENGAGING SURFACES
- 02 SLIDING SURFACES
- 02 ROLLER AND PIVOT
- 02 SLIDING SURFACES
- 01 ENGAGING SURFACES

CAM ARMS
DRIVING CAM
CAM ARMS
CONTACT ARM
FUNCTION PAWLS
FUNCTION LEVERS
FUNCTION BARS
FUNCTION PAWL SPRINGS
SPRING
FUNCTION BARS
DRIVING CAM
FUNCTION SLIDES
STRIPPER BLADE
DRIVING ARM
STRIPPER BLADE
FUNCTION SLIDES
FUNCTION SLIDES
FUNCTION SLIDES
FUNCTION SLIDES
FUNCTION SLIDES
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2.14 SEQUENCE SELECTOR, FRONT VIEW

2.15 CODE BAR MECHANISM

- 02 GUIDE SLOT (RIGHT, CENTER AND LEFT 9 BARS)
- 01 HOOKS-EACH END (3 PLACES)
- 02 BEARING BALLS (9 BALLS)
- CODE BAR DETENT

NOTE: ZERO CODE BAR IS A VARIABLE FEATURE
2.17 MOTOR AND GEARS

2.18 GEARS

- OILER - EACH END (RIGHT AND LEFT)
- G TEETH (2 GEARS)
- 02 BALL BEARING

MOTOR SHAFT
INTERMEDIATE GEARS
INTERMEDIATE GEAR SHAFT
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3. VARIABLE FEATURES

3.01 FRONT BELL CRANK

3.02 PARALLEL CODE-READING CONTACTS

3.03 SEQUENCE SELECTOR (LEFT FRONT VIEW)
3.04 SEQUENCE SELECTOR (LEFT REAR VIEW)

3.05 UNIVERSAL CONTACT (MAKE-BREAK)

- O2 BEARING SURFACE
- LATCH CAM
- CAMS
- LATCH LEVER
- INSULATOR
- O1 HOOKS-EACH END
- SPRING
- O1 BEARING SURFACE
- LATCH LEVER