This section provides lubrication information for the high speed tape punch (DRPE type). It is reissued to add and revise lubrication information according to the latest engineering changes. These include new 2400 word per minute models and variable features such as a backup mechanism, photoelectric reader (verifier), and universal punch block. Because this is a general revision, marginal arrows which indicate change have been omitted.

The high speed tape punch 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 unit just prior to placing it in service. After a few weeks of service, relubricate to make certain that all points receive lubrication. Thereafter, the lubrication interval is:

<table>
<thead>
<tr>
<th>Operating Speed (Words per Minute)</th>
<th>Lubrication Interval</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>2000 hr or 6 mo*</td>
</tr>
<tr>
<td>500</td>
<td>400 hr or 3 mo*</td>
</tr>
<tr>
<td>1000</td>
<td>200 hr or 2 mo*</td>
</tr>
<tr>
<td>1500</td>
<td>150 hr or 1-1/2 mo*</td>
</tr>
<tr>
<td>2000</td>
<td>75 hr or 1 mo*</td>
</tr>
<tr>
<td>2400</td>
<td>40 hr or 1 mo*</td>
</tr>
</tbody>
</table>

*Whichever occurs first.

Use KS7470 oil and Mobil #2 grease when lubricating this unit. See section 570-005-800TC for complete list of tools.

Note: TP143484 is a 1 lb can of Mobil #2 grease.

TP145867 is the same grease in a 4 oz tube.

Saturate all spring wicks and felt oilers; lubricate friction surfaces of all moving parts. Avoid over lubrication. Prevent lubricant from getting between electrical contacts or between stepper magnet coils and armature.

The photographs indicate paragraph numbers that refer to specific line drawings of mechanisms and where these mechanisms are located on the equipment. Mechanisms in line drawings are shown upright unless otherwise specified.

The illustration symbols indicate the following lubrication directions:

O1 - Apply one drop of oil.
O2 - Apply two drops of oil, etc.
SAT - Saturate with oil (felt oilers, washers, and wicks).
FILL - Fill with oil (oil holes and oil cups).
G - Apply 1/64-inch film of grease unless directed otherwise.

After each lubrication interval, wipe off excess lubricant from upper tape guide-plate and punch pins.
SECTION 592-803-701

2. BASIC UNIT

2.01 Front of Unit

2.02 Links and Reed Tips

- Links, Guides, and Posts
- Contacting Surfaces (To be coated with 1/32 inch of grease)
- Reed Tips, Dampers, Links, and Bumpers
- Links, Guides, and Posts
- Contacting Surfaces (To be coated with 1/32 inch of grease)
- Reed Tips, Dampers, Links, and Bumpers
- Links, Guides, and Posts
- Contacting Surface
- Punch Pins
- Sliding Surface
- Punch Pins
2.03 Escapement Pawls, Ratchet, and Grease Retainer

- SAT: Felt Washers
- Escapement Pawl Shaft
- Contact Surfaces: Escapement Pawl
- Fill Grease Retainer if Present: Escapement Ratchet
- Shaft Hole - See Note: Feed Wheel Shaft
- G: Spring Coils, Feed Wheel Shaft Surface
- FILL: Feed Wheel Shaft and Yield Spring
- SAT: Felt Washer (Late Design)
- Feed Wheel Shaft

Note: If there is a hole through feed wheel shaft, apply lubricant to hole until it flows through to hole on ratchet. If there is no hole, disassemble feed and ratchet wheel assemblies as outlined in disassembly section. After re-assembly, block feed wheel center hole and two cross holes in ratchet sleeve. Apply lubricant against end of ratchet sleeve until it flows from hole in ratchet sleeve.

2.04 Pressure Roller

- G: Contact Surface
- Feed Wheel Spoke and Ratchet
- O2: Each Pivot Bearing
- Pressure Roller Ball
- O2: Oilite Bearing (Each End)
- Pressure Roller

2.05 Tape Guide Shaft

- O2: Rear of Bearing
- Tape Guide Shaft
- SAT: Felt Washer
- Bearing
SECTION 592-803-701

2.06 Bottom of Unit

2.07 Tape Guide Spring and Spur Gear

- G Between Sleeve and Ratchet
- G Hooks and Coils (Each End)
- O4 Front End
- FILL Center Oil Hole (Separate Coils)
- G Teeth
- O2 Rear Bearing

2.08 Idler Lever and Gear

- G Contact Point on Switch Plunger
- SAT Felt Washer
- O2 Rear of Pivot Bearing
- O2 Front of Bearing
- G Teeth
- SAT Felt Oiler

- Feed Wheel Sleeve
- Tape Guide Spring
- Drive Spring Sleeve
- Spur Gear
- Spur Gear
- Idler Lever
- Idler Lever
- Idler Lever
- Idler Gear
- Idler Gear
2.09 Tape Feed Motor

G Teeth

Feed Motor Pinion

SAT Felt Washers (2)
(Inside Castings)

Tape Feed Motor

2.10 Tape Puller Motor

Ol Hooks (Each End)

Pressure Roller Spring

SAT Felt Washers (2)
(Inside Castings)

Tape Puller Motor
2.12 Antireverse Pawl and Pulley

Note: The antireversal pawl is intended to operate without lubrication. Clean pawl and V-groove pulley with suitable solvent at lubricating intervals.

2.13 Tape Sensing Lever
3. VARIABLE FEATURES

3.01 High Speed Tape Punch

3.02 Universal Punch Block

Note: The universal punch block lubrication procedures are the same as the standard punch mechanism. See 2.02 and 2.03.

CAUTION 1: EXCESS OIL ON PAPER TAPE MAY PREVENT DATA FROM BEING SENSED CORRECTLY.

CAUTION 2: WHEN LUBRICATING UNIVERSAL PUNCH BLOCK, DO NOT SPRAY LUBRICANT ON COVER OF LIGHT SOURCE.
3.03 Photoelectric Reader (Verifier)

*Note:* The photoelectric reader (verifier) does not require lubrication.

3.04 Backup Mechanism
3.05 Switch Lever Assembly

- Bearing Surfaces
- Switch Lever Operating Post
- Contact Surfaces
- Switch Lever Hub
- Coils
- Tape Lid Spring
- Hooks (Each End)
- Tape Lid Spring
- Mating Surfaces
- Switch Lever Eccentric Post

3.06 Intermediate Shaft Assembly

- Mating Surface
- Clutch Latch-lever Release
- Mating Surface
- Clutch Disc Lug
- Gear Teeth
- Intermediate Shaft Gear
3.07 Detent Lever and Reverse Feed Wheel
3.08 Detent Lever Assembly

- O2 Bearing Points Cam Roller on Detent Lever
- O2 Bearing Point Hub of Detent Lever
- O1 Coils Detent Return Spring
- G Spring Hooks Detent Return Spring
- O2 Bearing Point Hub of Detent Lever
3.09 Reverse Feed Wheel Assembly

3.10 Tape Guide Assembly

See 2.05 through 2.07
3.11 Escapement, Drive Shaft, and Trip Magnet Assemblies

(Bottom View)
3.12 Escapement Assembly (Forward Feed Wheel)
See 2.03 through 2.13

3.13 Drive Shaft Assembly
3.14 Trip Magnet Assembly

- SAT: Felt Wick
- Armature Shaft
- Hinge Pin
- G: Bearing Surface
- Armature and Trip Shaft
- O2: Bearing Surface
- Clutch Latchlever Hub
- G: Spring Hooks
- Stop Lever Spring
- Latchlever Spring
- Trip Lever Spring
- G: Spring Hooks
- Stop Lever Spring
- Latchlever Spring
- Trip Lever Spring
- O1: Coils
- Stop Lever Spring
- Latchlever Spring
- Trip Lever Spring