

### 32 TAPE PUNCH

#### DISASSEMBLY AND REASSEMBLY

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#### 1. GENERAL

1.01 This section is issued to present the disassembly and reassembly information for the 32 tape punch in a separate section. The information found in this section was formerly included in Section 574-125-702TC.

1.02 References to left, right, front, rear, etc, consider the tape punch to be viewed from a position where tape guide assembly faces up and the backspace lever is to the viewer's left. Orientation references in the drive link mechanism area consider the drive link to be up and located to the viewer's right.

1.03 Disassembly, as outlined in this section, covers the procedure for removing the principle subassemblies which make up the unit. If further disassembly is required, refer to Section 574-125-800TC, which shows detailed arrangements of parts. Where it will help in determining their location, the numbers of the parts are given in the instructions.

1.04 When self-tapping screws are used to mount mechanisms onto castings, do not remove the self-tapping screws. Merely loosen them enough to remove the mechanisms unless specifically instructed otherwise.

1.05 Retaining rings are made of spring steel and have a tendency to release suddenly. To avoid loss of these rings when removing them, proceed as follows.

- (a) Hold retaining ring to prevent its rotating.
- (b) Place blade of screwdriver in one of ring's slots and rotate screwdriver to increase diameter.
- (c) Ring will come off easily in fingers without flying.

1.06 All tools used to remove the mechanisms referred to in this section can be found in the 570-005-800TC standard tool section.

1.07 All damaged, worn, or distorted parts should be replaced if encountered in the disassembly and reassembly procedures.

#### 2. DISASSEMBLY AND REASSEMBLY

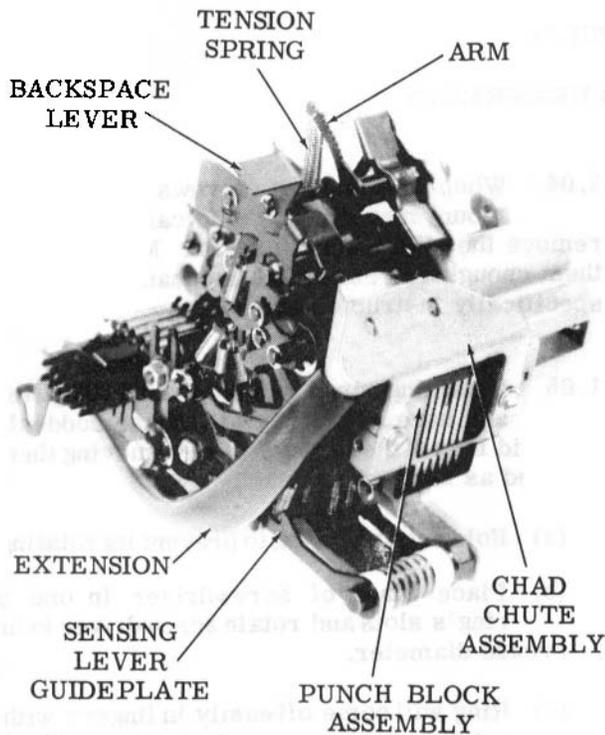
Note: For information concerning the proper procedure to remove the tape punch from the set, refer to the set disassembly and reassembly section 574-160-702TC.

**CAUTION: BEFORE BEGINNING DISASSEMBLY, REMOVE CONNECTORS FROM EXTERNAL RECEPTACLES (POWER SOURCE, DATA SET, ETC).**

#### CHAD CHUTE ASSEMBLY

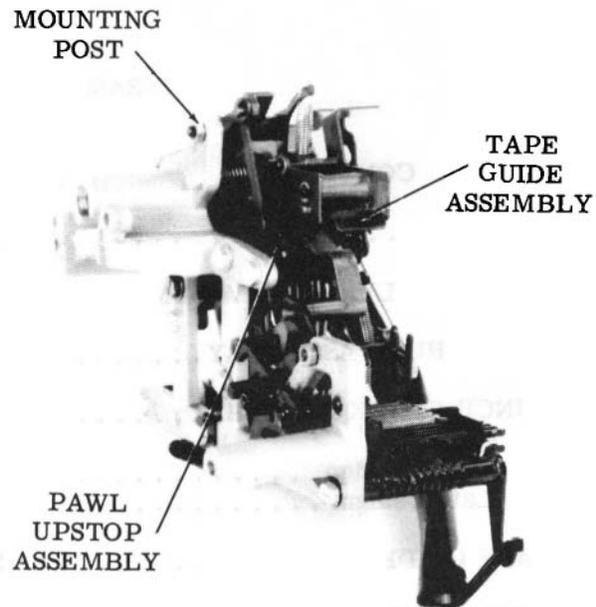
2.01 To remove the chad chute assembly (Figures 1 and 3), proceed as follows.

- (a) Remove the TP182915 extension.



(Left Front View)

Figure 1 - Tape Punch (Cover Removed, Early Design)



(Right Rear View)

Figure 2 - Tape Punch (Cover Removed, Early Design)

- (b) Remove the two TP152893 screws, TP110743 lockwashers, and TP2034 flat washers.
- (c) Remove the TP182908 chad chute assembly.
- (d) To replace the chad chute assembly, reverse the procedure used to remove it. Line up the oblong holes of the plate with the holes in the punch block holder. Apply finger pressure on top of the chad chute assembly towards punch block holder when replacing and tightening the two screws.

Note: Late design units have a TP185891 plastic chad chute assembly that should not be removed.

**PUNCH BLOCK ASSEMBLY**

**A. Early Design**

2.02 To remove the punch block assembly (Figure 1), proceed as follows.

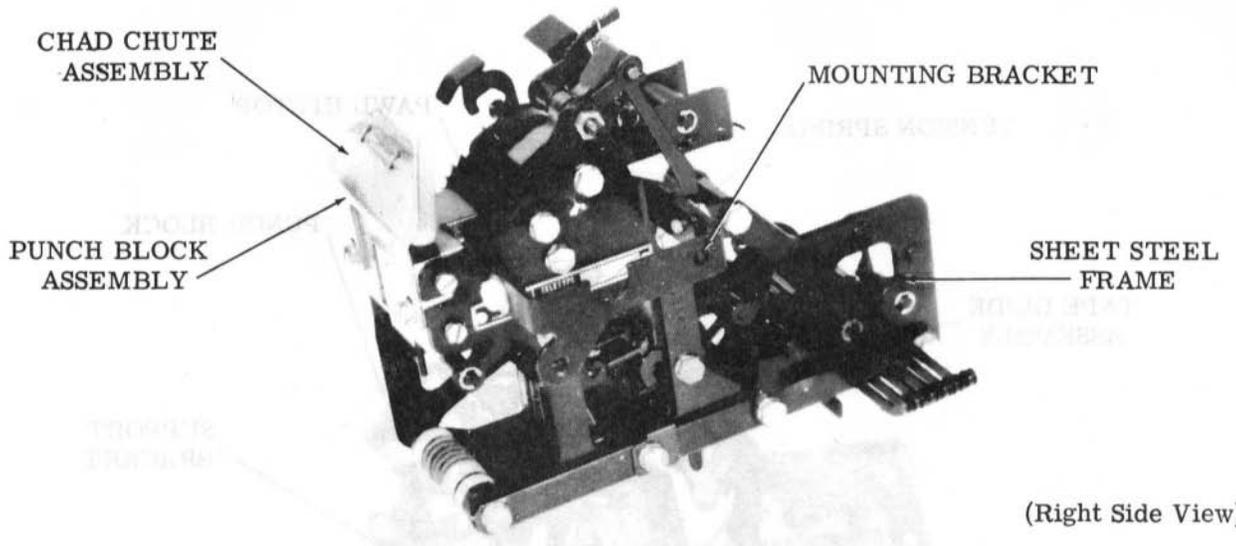
- (a) Remove the two TP153817 mounting screws, TP110743 lockwashers, and TP2034 flat washers.

- (b) Slide the punch block assembly forward until the tongue in the punch blockholder and the punch pins disengage the groove in the TP182903 tape punch casting and the TP182813 levers respectively.
- (c) To replace the punch block assembly, position the slots in the punch pins so that they face the guide pin. The bottom of the punch pins should be in line and in a position that approximates their position when on the tape punch. Line up the punch pin slots with their levers and reverse the procedure used to remove the punch block assembly.

**B. Late Design**

2.03 To remove punch block assembly (Figures 3 and 4), proceed as follows.

- (a) Remove the three TP153817 screws, TP110743 lockwashers, and TP2034 flat washers.
- (b) Slide the punch block assembly forward until the tongue in the punch blockholder and the punch pins disengage the groove in



(Right Side View)

the TP182256 tape punch frame and the TP182813 levers respectively.

- (c) To replace the punch block assembly, position the slots in the punch pins so that they face the guide pin. The bottom of the punch pins should be in line and in a position that approximates their position when on the tape punch. Line up the punch pin slots with their levers and reverse the procedure used to remove the punch block assembly.

#### TAPE GUIDE ASSEMBLY

2.04 To remove the tape guide assembly (Figures 2 and 4), proceed as follows.

- (a) With a pencil or suitable marking instrument, mark the notch where the TP184095 tension spring end is positioned.
- (b) Unhook the TP184095 tension spring and remove the TP182936 arm from the TP182845 post.
- (c) Remove the TP181244 mounting screw from the tape guide assembly.
- (d) Remove the tape guide assembly.
- (e) To replace the tape guide assembly, reverse the disassembly procedure making sure that the tension spring is positioned in the marked notch of the arm.

#### PAWL UPSTOP ASSEMBLY

2.05 To remove the pawl upstop assembly (Figures 2 and 4), proceed as follows.

*Note.* Never disassemble the pawl upstop assembly prior to removing the pawl, lever, and spring combinations. The slotted TP182822 plate keeps the "ball" and "socket" of the lever and pawl in full engagement.

- (a) Remove the TP181244 screw.
- (b) Remove the TP182821 post, TP182893 bracket, and TP182822 plate.
- (c) To replace the pawl upstop assembly, reverse the procedure used to remove it.

#### SENSING LEVERS AND GUIDEPLATE ASSEMBLY

2.06 To remove the sensing levers and guideplate assembly (Figures 1 and 4), proceed as follows.

- (a) Loosen the TP181244 screw and rotate the TP182914 bracket out of the way.
- (b) Unhook each TP182909 sensing lever spring and rotate each sensing lever away from the guideplate.

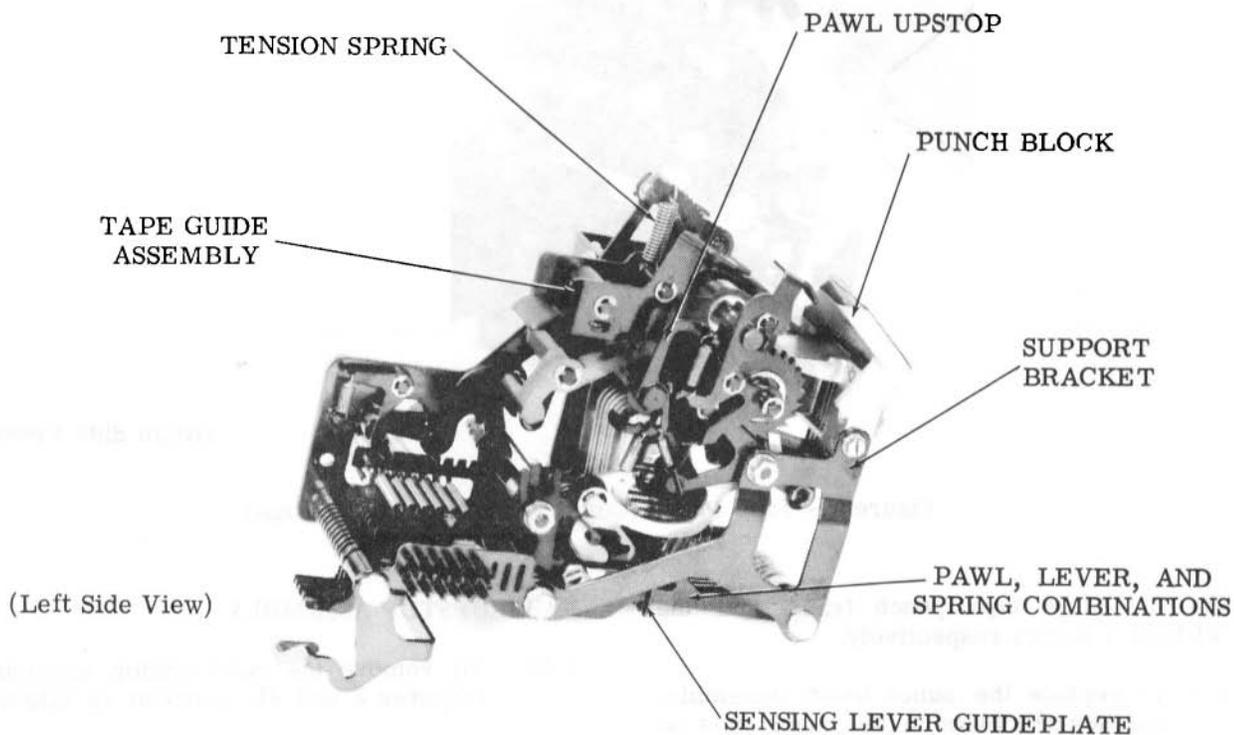


Figure 4 - Tape Punch (Cover Removed, Late Design)

- (c) Remove the two TP181244 screws from the TP185847 post and remove the post and the attached sensing levers.
- (d) Remove the TP181242 screw and TP3598 nut from the TP182815 guideplate. Remove the guideplate.
- (e) To replace the sensing levers and guideplate, reverse the procedure used to remove them. However, before tightening the TP181242 screw and TP3598 nut, push the guideplate downward to take up all play. Viewing the tape punch from the left, position the guideplate in a horizontal to a slightly counterclockwise from horizontal position as gauged by eye. Then, tighten the TP181242 screw and TP3598 nut.

**PAWL, LEVER, AND SPRING COMBINATIONS**

2.07 To remove the pawl, lever, and spring combinations (Figure 4), proceed as follows.

- (a) Remove punch block assembly with chad chute assembly connected.
- (b) Remove tape guide assembly.
- (c) Remove sensing lever and guideplate assembly.
- (d) Remove the two TP181244 screws that hold the power bail mechanism in place.
- (e) Remove the TP182832 post and slide the TP182831 stripper bail and power bail down and out.
- (f) Remove the TP3598 nut, TP7002 flat washer, and TP124177 lockwasher from the TP185846 post that supplies the pivot point for the levers.
- (g) The pawl, lever, and spring combinations can now be removed one at a time.
- (h) To replace the pawl, lever, and spring combinations reverse the procedure used to remove it.

32 COVER

GENERAL DESCRIPTION

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1. GENERAL

1.01 This section is issued to provide a general description for the 32 cover only, and to present it as a separate section. Formerly, this information was part of Section 574-126-100TC, Issue 1, for both the 32 and 33 covers. Issue 2 of that section now contains only 33 cover description.

1.02 The main function of the cover is to protect the interior components of the set. It also serves as the frame for the dial, lamps, volume control knob, and paper supply.

1.03 References to left, right, front, or rear consider the cover as viewed by the operator.

2. DESCRIPTION

A. Receive-Only (RO) Cover

2.01 The RO cover houses the components of the set. The cover is made entirely of plastic.

2.02 A spring detented lid, when raised, provides access to the ribbon. It also allows the operator to easily insert the paper around the platen. A window permits viewing the copy and provides a cutting edge for tearing paper or forms. The entire cover mounts to the set subbase.

B. Keyboard Send-Receive (KSR) Cover

2.03 The KSR cover illustrated in Figure 1 houses the typing unit, the keyboard, and the call control unit. Like the RO cover, the KSR cover is gray and is made of plastic.

2.04 The cover has a raisable lid which permits access to the paper and the ribbon, as described in 2.02. In the call control area at the right are slots for the various lamps, and an opening for a dial. The nameplate attaches to the front of the cover.

C. Automatic Send-Receive (ASR) Cover

2.05 The ASR cover illustrated in Figure 2 is essentially the same as the KSR except that the covers for the punch and the reader are attached to the left.

2.06 When mounted on the set the cover is one integral whole. The tape punch cover and tape reader cover are attached to the main cover and remain as part of the main cover when it is removed. As shown in Figure 2, a paper alarm is mounted to the rear of the cover beyond where the paper roll would be mounted. Like the RO and KSR covers, the ASR cover is also gray and plastic.

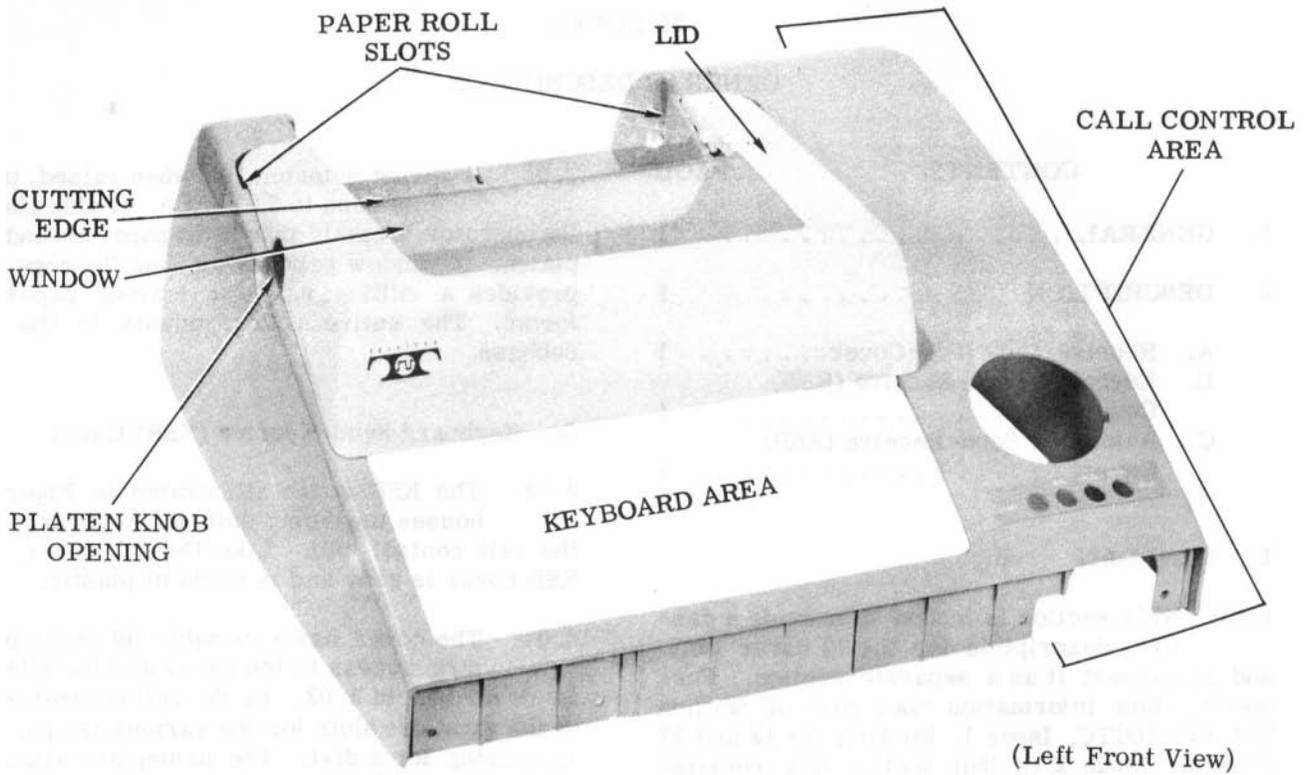


Figure 1 - Keyboard Send-Receive (KSR) Cover

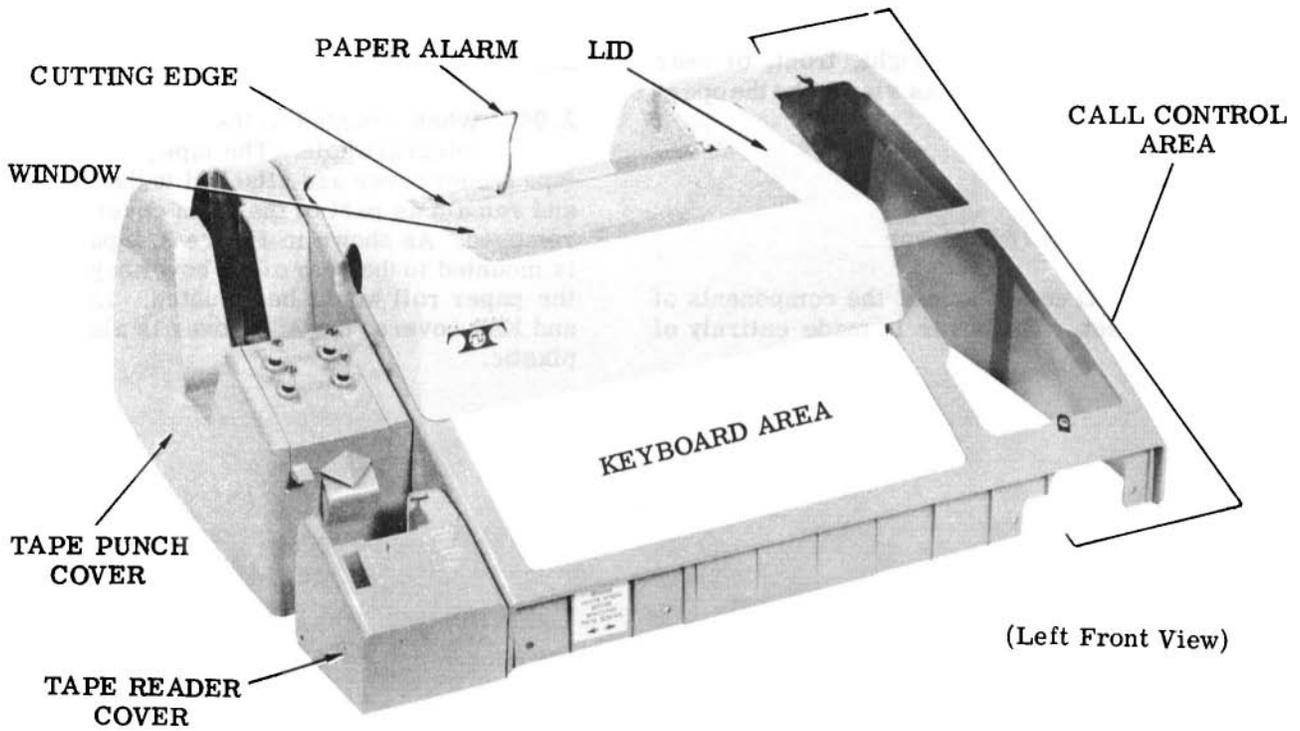


Figure 2 - Automatic Send-Receive (ASR) Cover

32 COVER

LUBRICATION

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1. GENERAL

1.01 This section provides lubrication information for the 32 cover formerly covered in Section 574-126-100TC.

1.02 The general lubrication area is shown in the automatic send-receive (ASR) cover photograph. Lubrication requirements are the same for both the keyboard send-receive (KSR) (not illustrated) and the ASR covers. The specific lubrication points are indicated on a line drawing with appropriate textual instructions keyed to the photograph by paragraph number.

1.03 Provide a thorough coat of lubricant at each designated area. Do not overlubricate to the point where lubricant drops onto adjacent parts.

1.04 Lubricate the cover before placing it into service or prior to storage. After a short period of service, relubricate it to make sure that no areas have been missed. Thereafter,

lubricate the cover at regular unit maintenance intervals.

1.05 The textual instructions that accompany the line drawing consist of abbreviated directions, specific lubrication points, and parts affected. The meanings of the abbreviated directions (symbols) are given below:

<u>Symbol</u>	<u>Meaning</u>
D	Keep dry — no lubricant permitted.
O	Oil (KS7470)

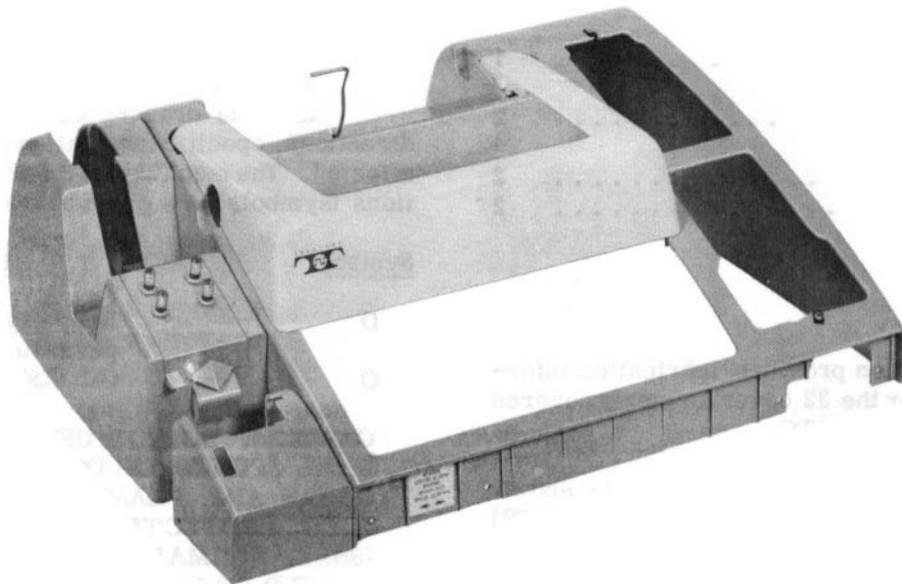
**CAUTION: DO NOT USE ALCOHOL, MINERAL SPIRITS, OR OTHER SOLVENTS TO CLEAN ANY PLASTIC PARTS OR PARTS WITH PROTECTIVE DECORATIVE FINISHES. NORMALLY, A SOFT, DRY CLOTH SHOULD BE USED TO REMOVE DUST, OIL, GREASE, OR OTHERWISE CLEAN PARTS OR SUBASSEMBLIES. IF NECESSARY, A SOFT DAMP CLOTH WITH SOAP OR A MILD DETERGENT MAY BE USED. AFTERWARDS, RINSE EACH CLEANED PART OR SUBASSEMBLY WITH A SOFT, DAMP CLOTH, AND BUFF WITH A SOFT, DRY CLOTH.**

1.06 Tools and materials needed for lubrication are listed in Section 570-005-800TC.

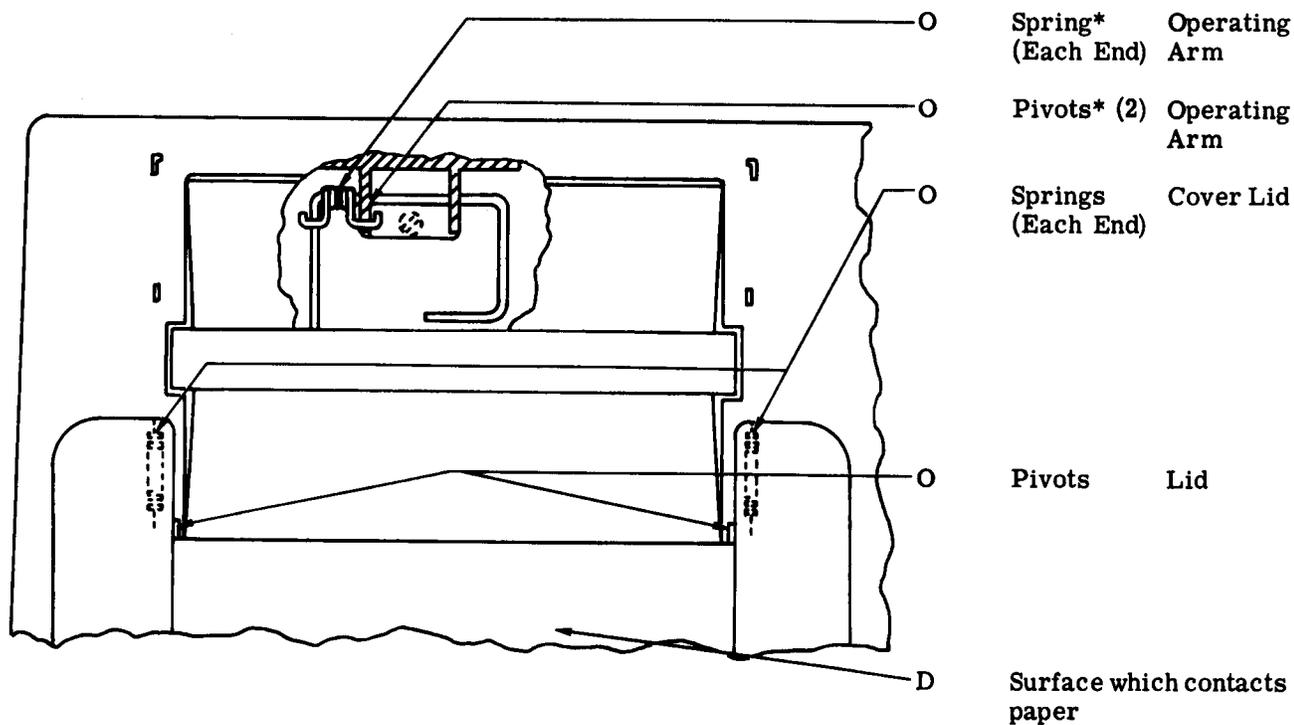
1.07 For disassembly and reassembly information, refer to Section 574-176-702TC.

2. COVER

2.01 ASR Cover



2.02 Lid



(Top View)

\*For covers equipped with TP181441 switch only.