

32 TAPE READER

LUBRICATION

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LUBRICATION INTERVAL  
 (Based on 5-day Week)

Daily Operation of Tape Reader			
Speed (wpm)	0-8 hrs	8-16 hrs	16-24 hrs
60	39 wks	26 wks	13 wks
66	39 wks	26 wks	13 wks
75	39 wks	26 wks	13 wks
100	26 wks	13 wks	6 wks

**Note 1:** Reduce lubricating intervals 15% for a 6-day week, and 30% for a 7-day week.

**Note 2:** Units with serial nos. below 144,000, reduce lubricating intervals 33%. Units with serial nos. above 144,000, use above chart.

1. GENERAL

1.01 This section contains lubrication requirements for the 32 tape reader. It is reissued to include engineering changes. Marginal arrows indicate the changes.

1.02 The general lubrication areas are illustrated by photographs. The specific points to receive lubricant are indicated on line drawings with appropriate textual instructions. Line drawings and textual instructions follow each photograph and are keyed to the photograph by paragraph numbers.

1.03 Thoroughly lubricate the tape reader, but avoid over lubrication that might permit the lubricant to drip or be thrown onto adjacent parts. Saturate all felt washers.

1.04 Lubricate reader before placing it in storage, or before placing it in service if it had been stored six months or longer. Thereafter, relubricate reader at the following intervals:

1.05 The textual instructions that accompany the line drawings 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.
G	Apply thin coat of KS7471 grease.
L	Apply thin coat of Lubriplate 105 (2 oz tube TP108805).
O	Oil (KS7470).

1.06 References to left, right, front, or rear, etc, consider the tape reader to be viewed from a position where the feed wheel faces up and the lid latch is to the viewer's right. Orientation references in the clutch trip area consider the armature extension to be facing up with the contact bracket pry points located to the viewer's right.

**CAUTION: DO NOT USE ALCOHOL, MINERAL SPIRITS, OR OTHER SOLVENTS TO CLEAN 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 CLOTH DAMPENED WITH SOAP OR MILD DETERGENT MAY BE USED. RINSE WITH A SOFT, DAMP CLOTH AND BUFF WITH A SOFT, DRY CLOTH.

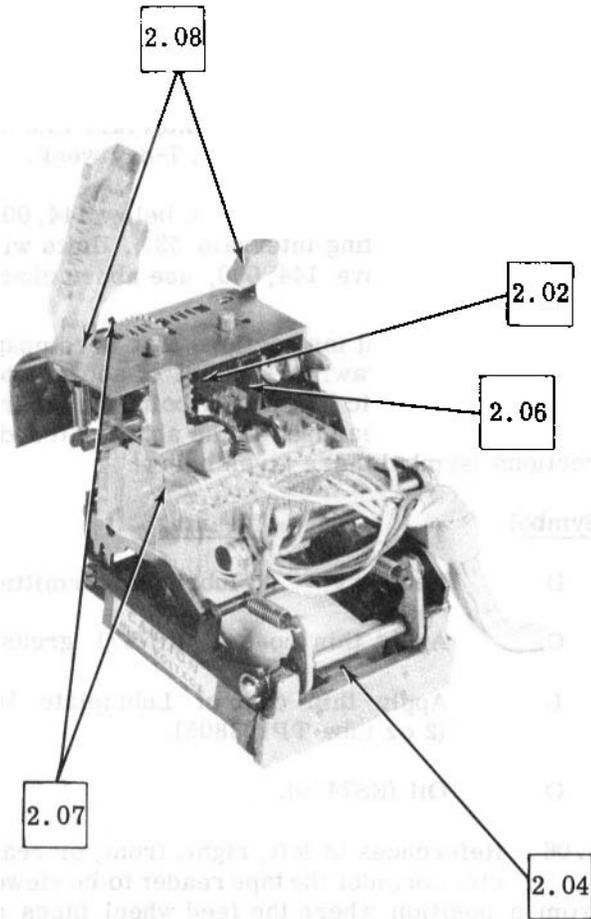
1.07 Tools and materials needed for Teletype-writer lubrication are listed in Section 570-005-800TC.

1.08 For disassembly and reassembly information, refer to Section 574-174-702TC.

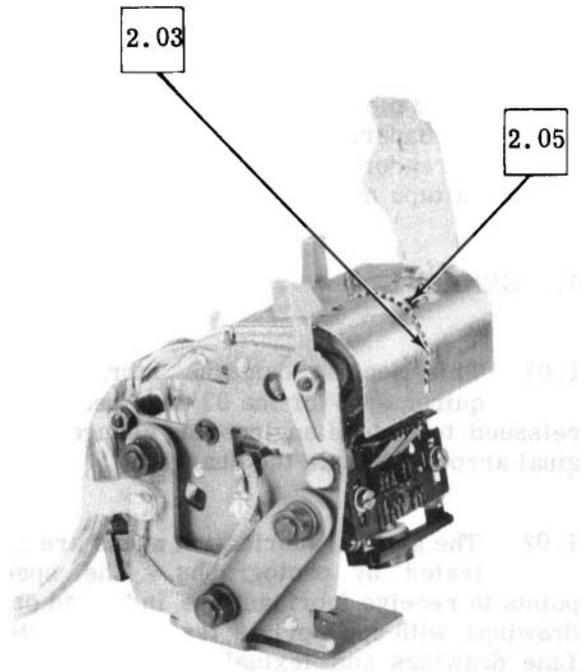
**CAUTION: REMOVE ELECTRICAL POWER FROM UNIT BEFORE LUBRICATING OR DISASSEMBLING COMPONENTS.**

2. BASIC UNIT

2.01 Tape Reader

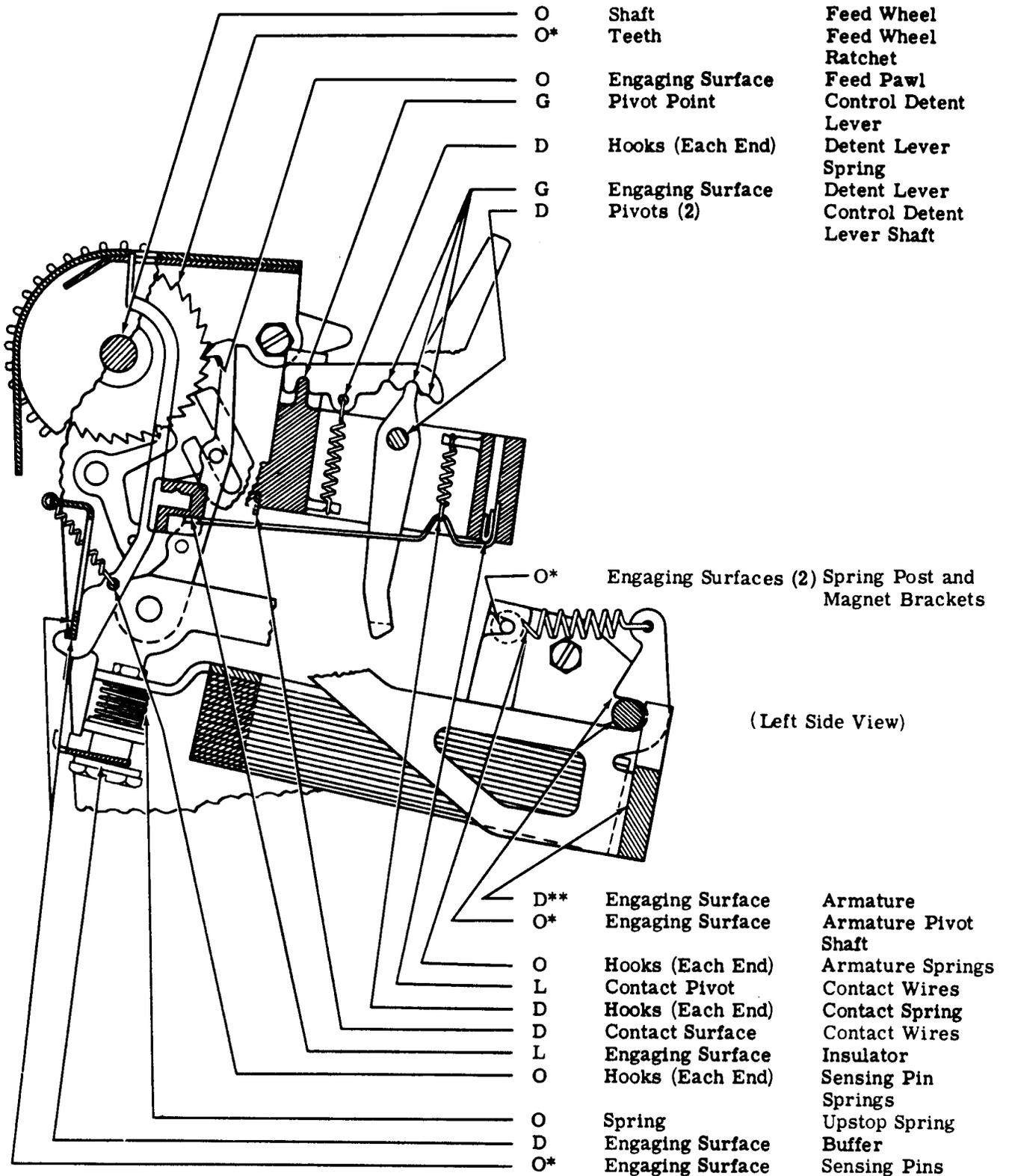


(Left Front View)



(Right Rear View)

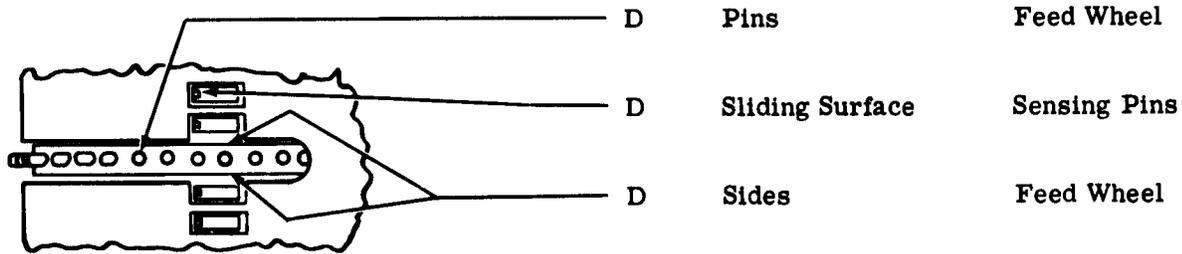
2.02 Tape Reader Mechanism



\*Whenever unit is overhauled, apply a coat of thoroughly mixed 50 percent KS7470 oil and 50 percent KS7471 grease.

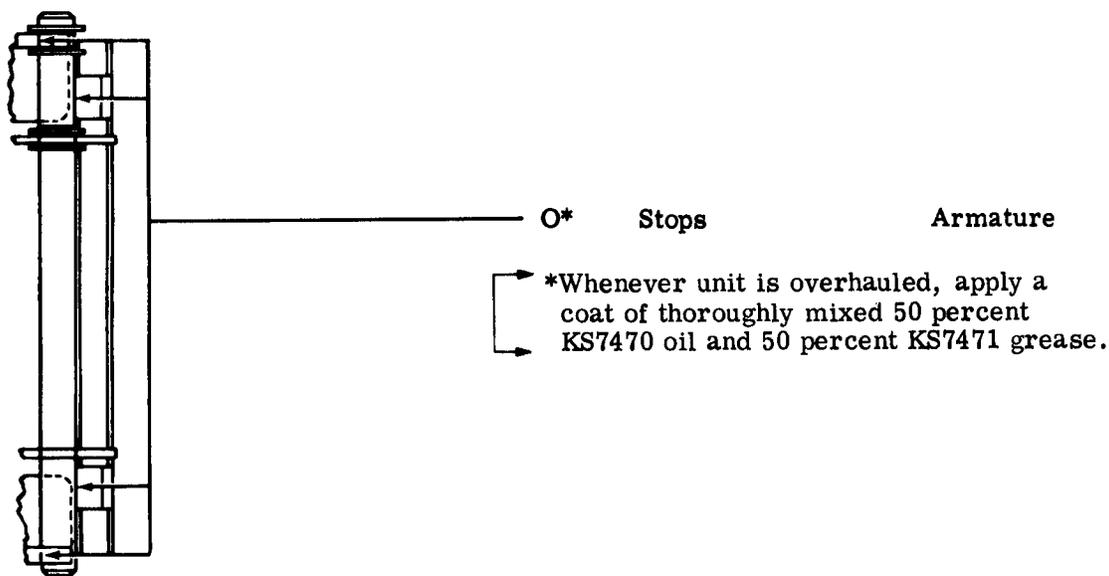
\*\*Some oil leakage on this surface is permissible.

2.03 Feed Wheel



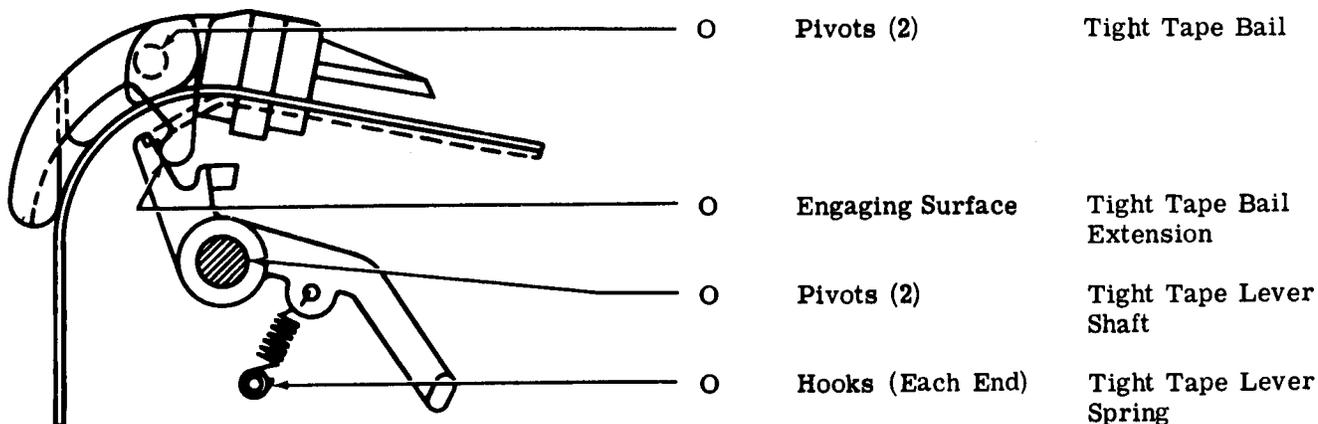
(Top View)

2.04 Armature Shaft



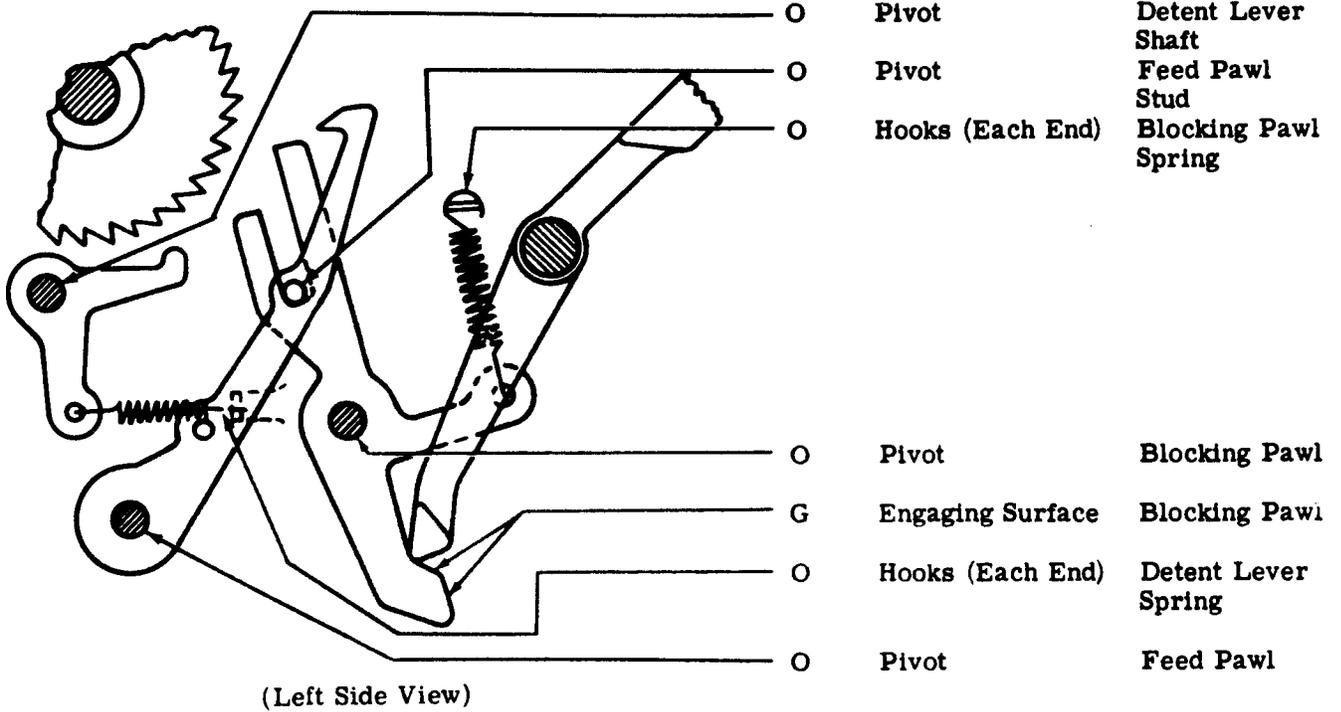
(Top View)

2.05 Tight Tape Mechanism

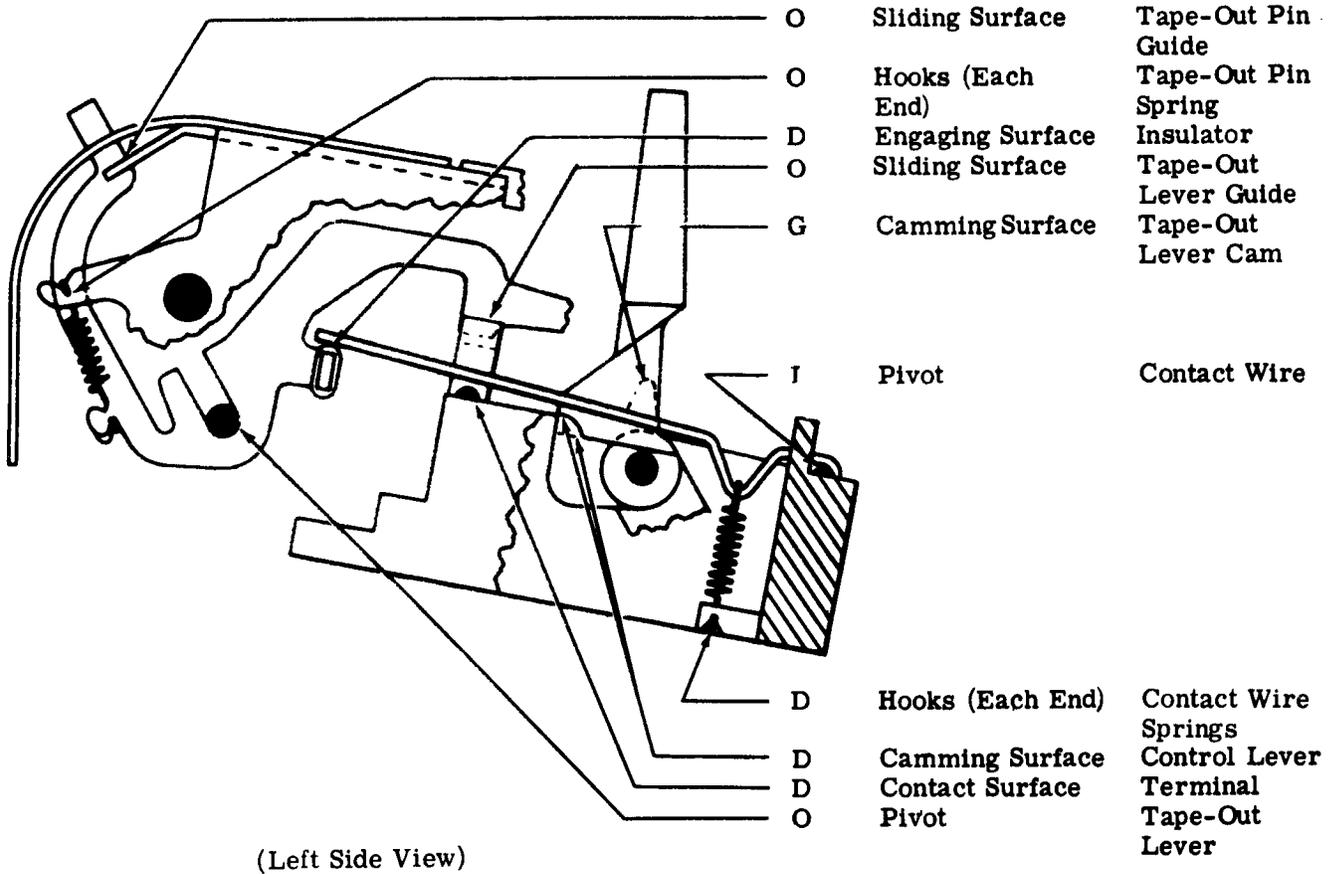


(Left Side View)

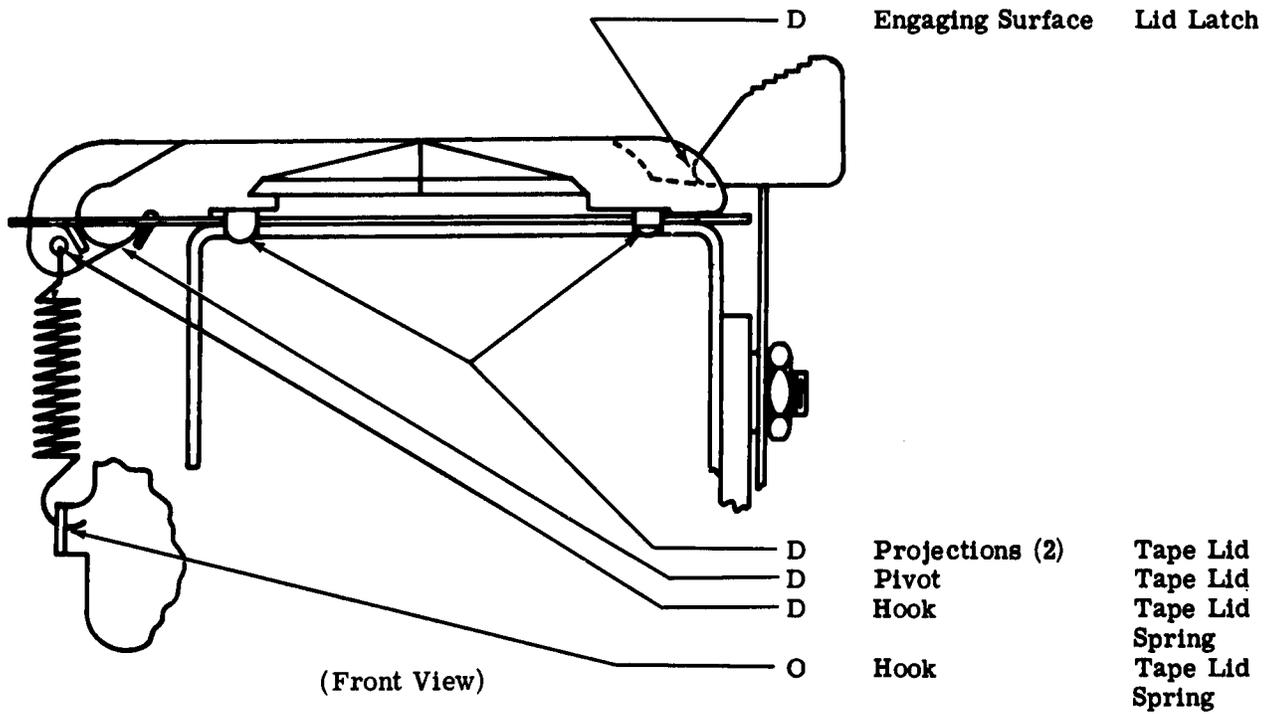
2.06 Feed Pawl Mechanism



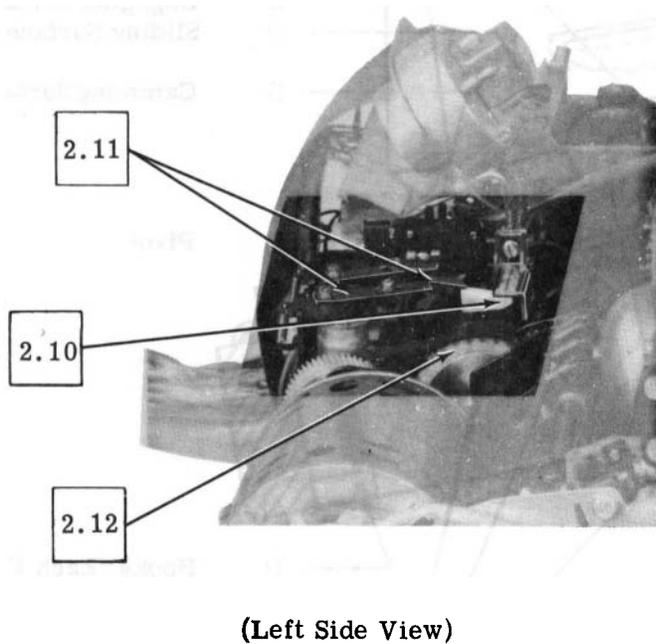
2.07 Control Mechanism



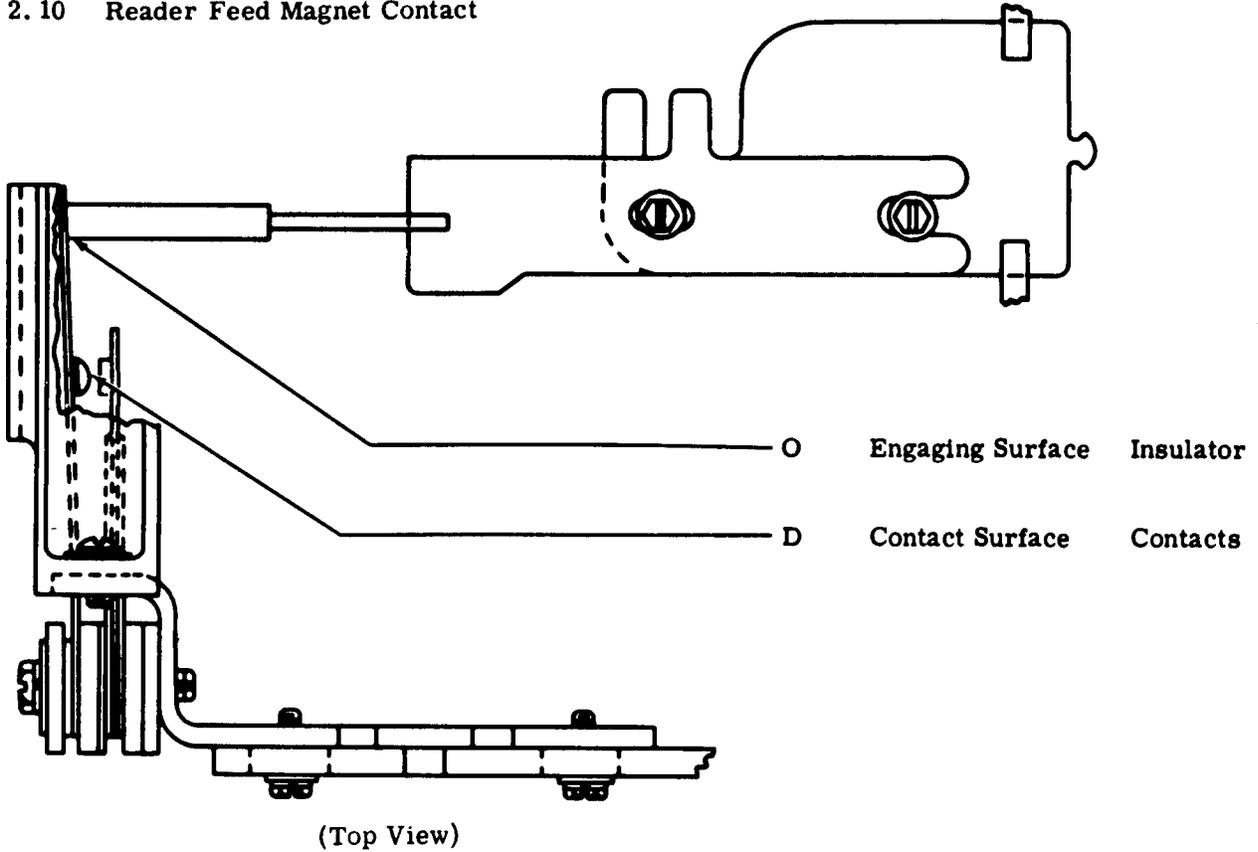
2.08 Tape Lid Mechanism



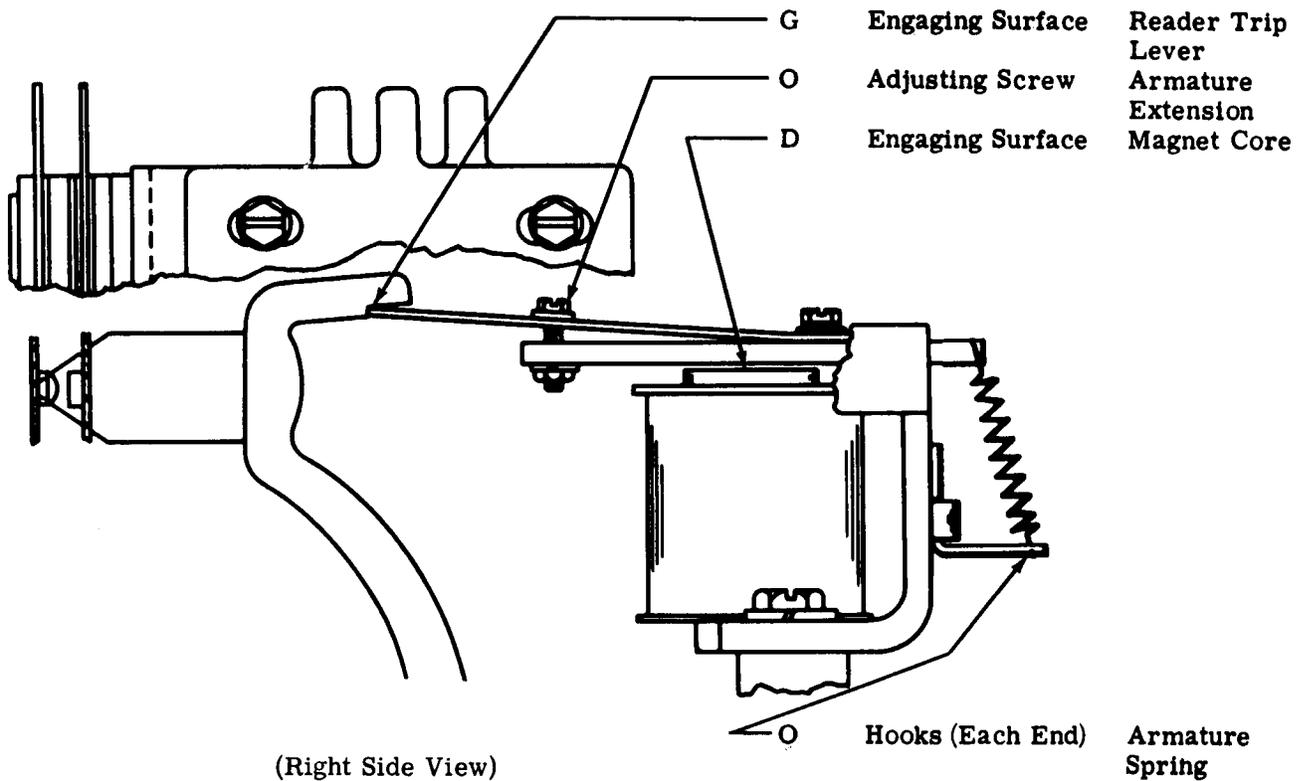
2.09 Clutch Trip Area



2.10 Reader Feed Magnet Contact

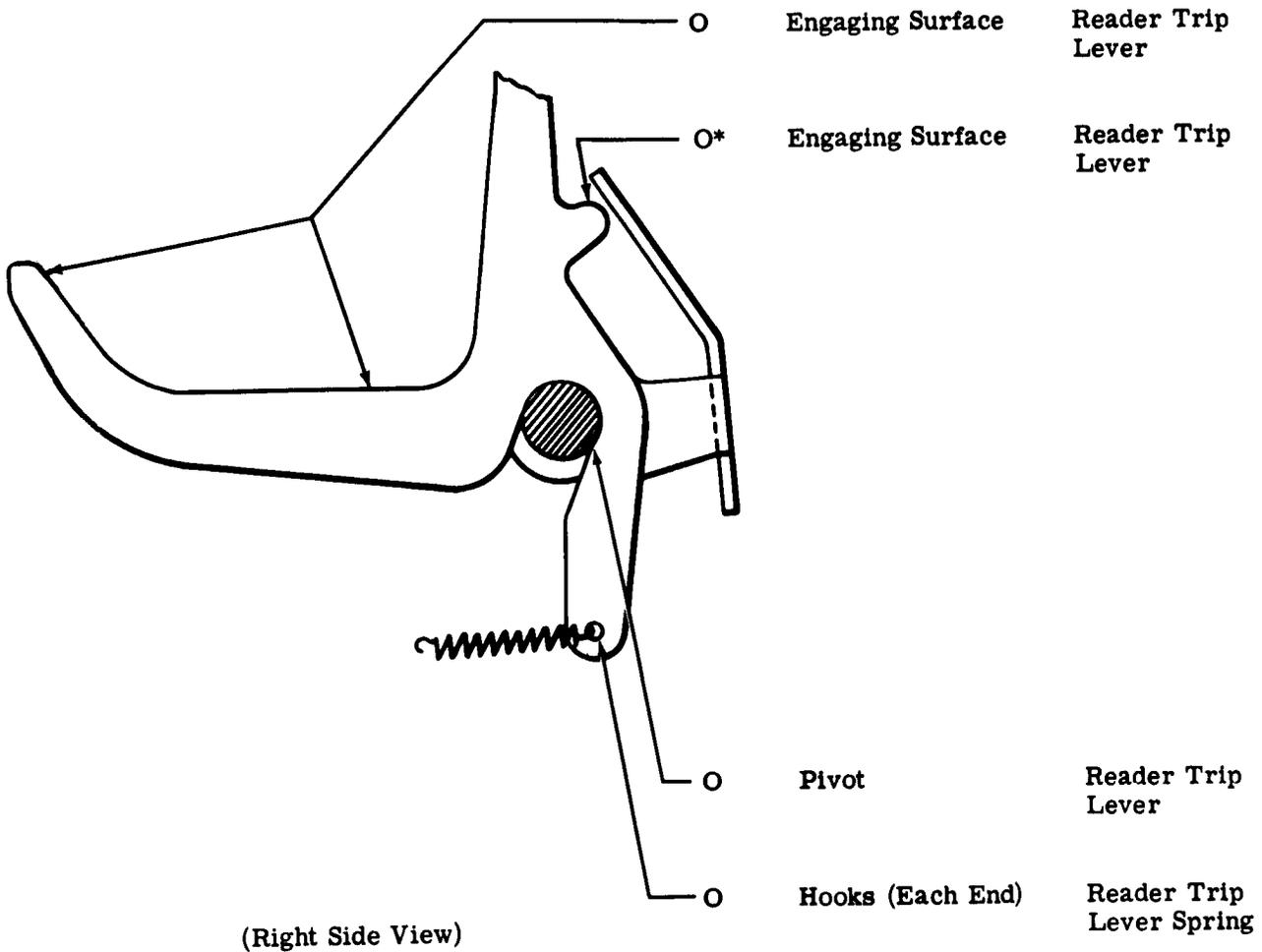


2.11 Distributor Clutch Trip Magnet



2.12 Reader Trip Lever

(Remove answer-back drum.)



(Replace answer-back drum.)

→ \*Whenever unit is overhauled, apply a coat of thoroughly mixed 50 percent KS7470 oil and 50 percent KS7471 grease.

32 TAPE READER

DISASSEMBLY AND REASSEMBLY

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1. GENERAL

1.01 This section is reissued to incorporate recent engineering changes and to present disassembly and reassembly information exclusively for 32 tape readers. Since this is a general revision, marginal arrows, used to indicate changes, have been omitted.

1.02 References to left, right, front, rear, etc, consider the tape reader to be viewed from a position where the feed wheel faces up and the lid latch is 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 the appropriate illustrated parts section which shows detailed arrangements of parts. Where it will help in determining location, the numbers of the parts are given in the instructions.

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

1.05 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 reader and associated cable assemblies from the set, refer to appropriate set disassembly and reassembly section.

SENSING PIN ASSEMBLY

2.01 To remove the sensing pin assembly (Figure 2), proceed as follows.

(a) Remove the two TP151152 mounting screws, TP110743 lockwashers, and TP104807 flat washers which mount the TP183035 sensing pin guide.

(b) Remove sensing pin assembly.

(c) To replace sensing pin assembly, reverse procedure used to remove it.

FEED MAGNET ASSEMBLY

2.02 To remove the feed magnet assembly (Figure 1), proceed as follows.

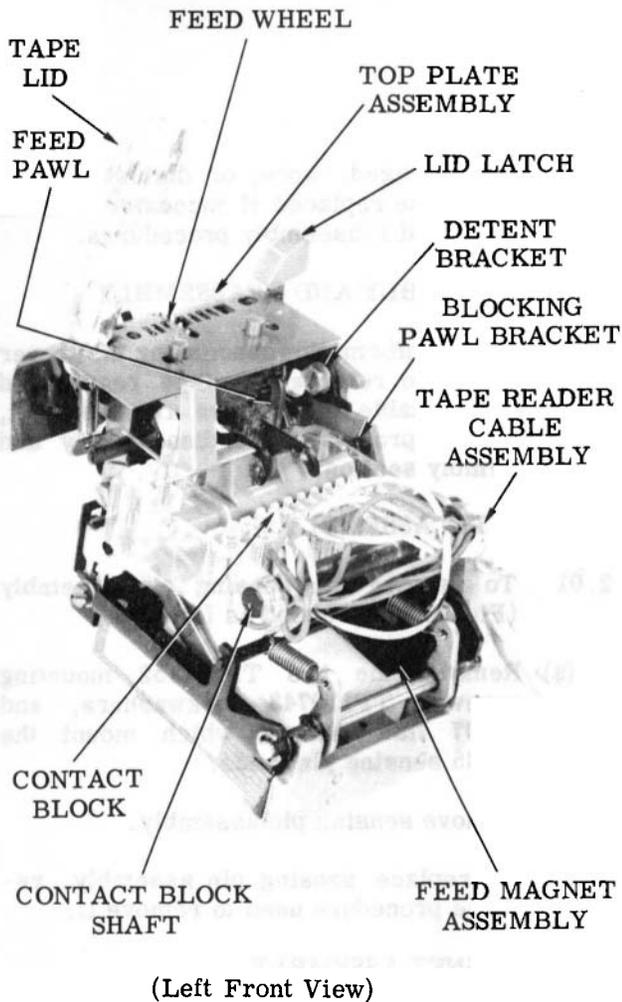
(a) Remove contact block assembly.

(b) Remove sensing pin assembly.

(c) Unhook the TP90517 detent lever spring from the TP183023 detent bracket.

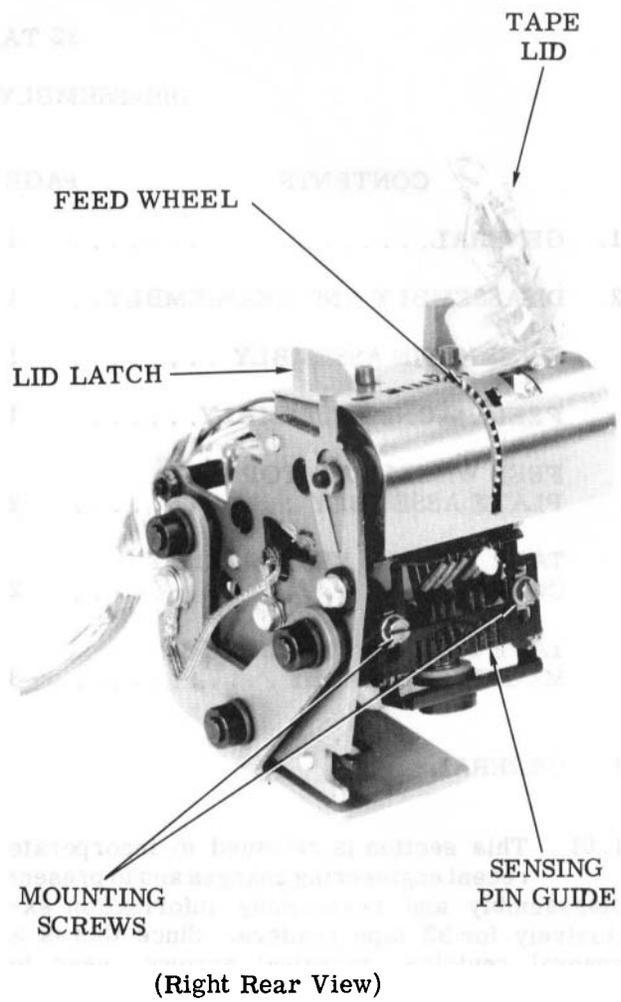
(d) Unhook the TP114107 blocking pawl spring from the TP183020 blocking pawl bracket.

(e) Remove the TP151152 magnet bracket mounting screw, the TP110743 lockwasher, and the TP104807 washer. Then, remove the two TP181241 magnet bracket mounting screws.



(Left Front View)

Figure 1 - Tape Reader (Without Cover)



(Right Rear View)

Figure 2 - Tape Reader (Without Cover)

- (f) Slide the TP183011 feed pawl stud out of engagement with the TP183016 blocking pawl.
- (g) Remove feed magnet assembly.
- (h) To replace feed magnet assembly, reverse procedure used to remove it.

**FEED WHEEL AND TOP PLATE ASSEMBLY**

2.03 To remove feed wheel and top plate assembly (Figure 1), proceed as follows.

- (a) Remove contact block and cable assembly.
- (b) Remove sensing pin assembly.

- (c) Remove the TP182139 feed magnet assembly.
- (d) Unlatch the TP183032 tape lid.
- (e) Remove the TP181241 detent bracket mounting screw and TP3598 feed wheel shaft nut and TP124177 lockwasher.
- (f) Remove feed wheel and top plate assembly.
- (g) To replace feed wheel and top plate assembly, reverse procedure used to remove it.

**TAPE READER FEED MAGNET CONTACT**

2.04 To remove the tape reader feed magnet contact (Figure 3), proceed as follows.

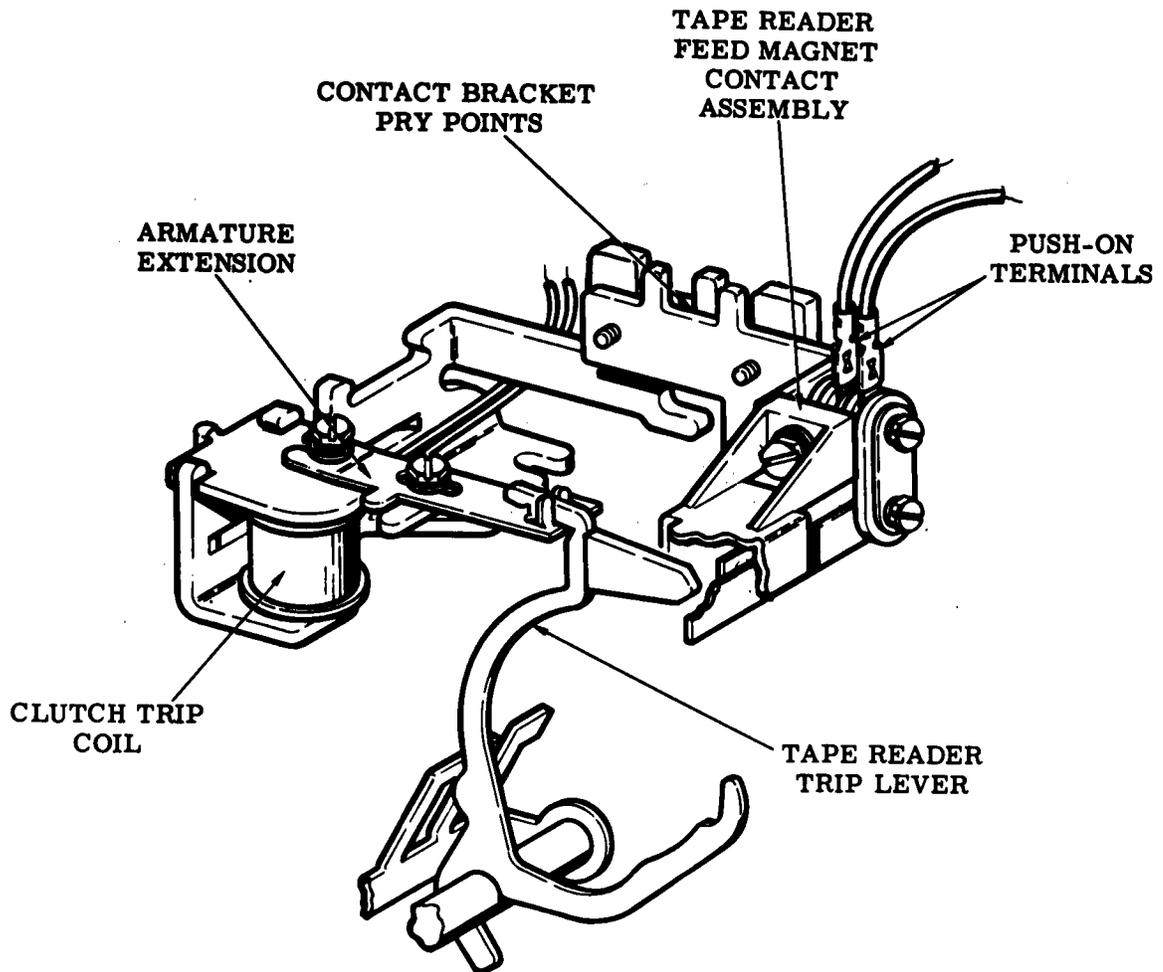


Figure 3 - Clutch Trip Magnet Assembly

- (a) Remove the two push-on TP182726 terminals of the tape reader cable.
- (b) Remove the two TP152893 tape reader feed magnet mounting screws, two TP104807 flat washers, and two TP110743 lockwashers.
- (c) Remove the tape reader feed magnet contact assembly.
- (d) To replace the tape reader feed magnet contact assembly, reverse procedure used to remove it.

**TAPE READER CLUTCH TRIP MAGNET ASSEMBLY**

2.05 To remove tape reader clutch trip magnet assembly (Figure 3), proceed as follows.

- (a) Remove the tape reader feed magnet contact assembly.
- (b) Remove plug P and, with extractor tool TP182697, remove terminals no. 4 and 5.
- (c) Loosen the two TP180989 distributor disc mounting screws and the TP180798 magnet bracket mounting screw.
- (d) Remove tape reader clutch trip magnet assembly.
- (e) To replace tape reader clutch trip magnet assembly, reverse procedure used to remove it.

