

35 EDGE PUNCHED CARD FEEDER
DISASSEMBLY AND REASSEMBLY

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1. GENERAL

- 1.01 This section provides disassembly and reassembly instructions for the 35 edge punched card feeder (1A HOPPER). It is reissued to accommodate engineering changes. Since this is a general revision, marginal arrows to indicate changes or additions are omitted.
- 1.02 Disassembly as outlined in this section covers a procedure for removing the principal subassemblies which make up the unit.
- 1.03 Refer to the exploded views in Section 574-246-800 for illustrations of the mechanism to be disassembled, for location and visual identification of parts, and for detailed disassembly and reassembly features.
- 1.04 Most maintenance, lubrication, and adjustments can be accomplished simply by removing the top plate and the cover. If possible, disassembly should be confined to subassemblies, which can, in some cases, be removed without disturbing adjustments. When reassembling the subassemblies, be sure to check all associated adjustments, clearances and spring tensions.

1.05 If a part that is mounted on shims is removed, the number of shims used at each of its mounting screws should be noted so that the same shim pile-up can be replaced when the part is remounted.

1.06 Retaining rings are made of spring steel and have a tendency to release suddenly when being removed. Loss of these retainers can be minimized as follows: Hold the retainer with the left hand to prevent it from rotating. Place the blade of a suitable screwdriver in one of the slots of the retainer. Rotate the screwdriver in a direction to increase the diameter of the retainer for removal.

1.07 Avoid loss of springs in disassembly by holding one spring loop with the left hand while gently removing the opposite loop with a spring hook. Do not stretch or distort springs in removing them.

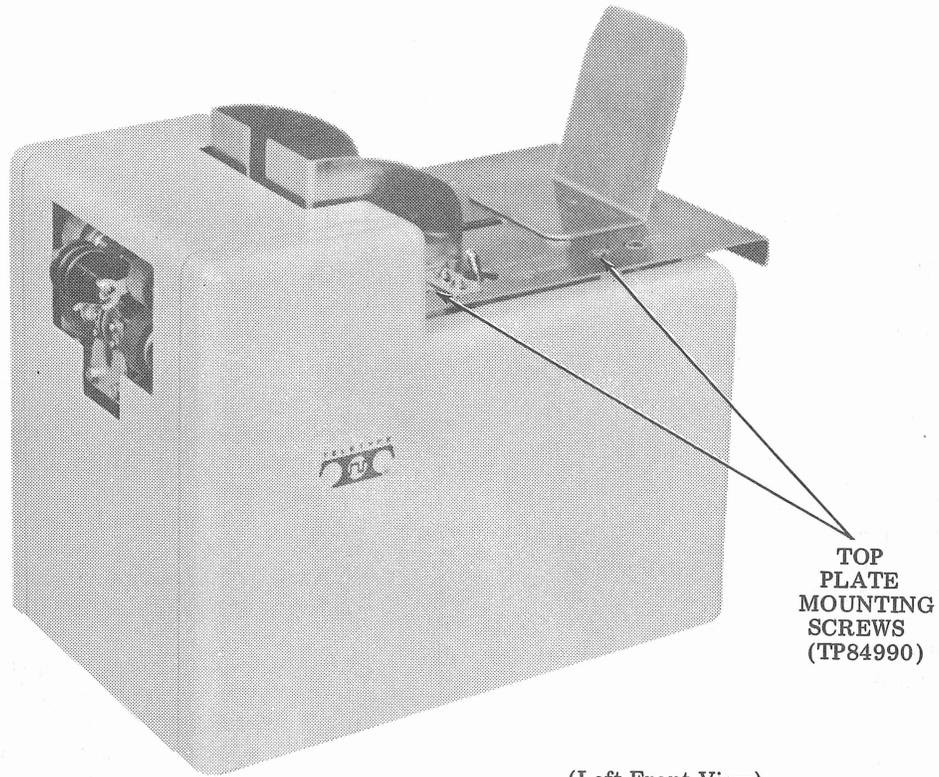
1.08 References made to left, right, front, rear, etc apply to the feeder in its normal operating position as viewed from the operator's position in front of the feeder.

1.09 When mechanisms and parts, such as the cover, are removed, set them aside in some location where they will not get damaged and where they will not be a hazard to personnel around the area.

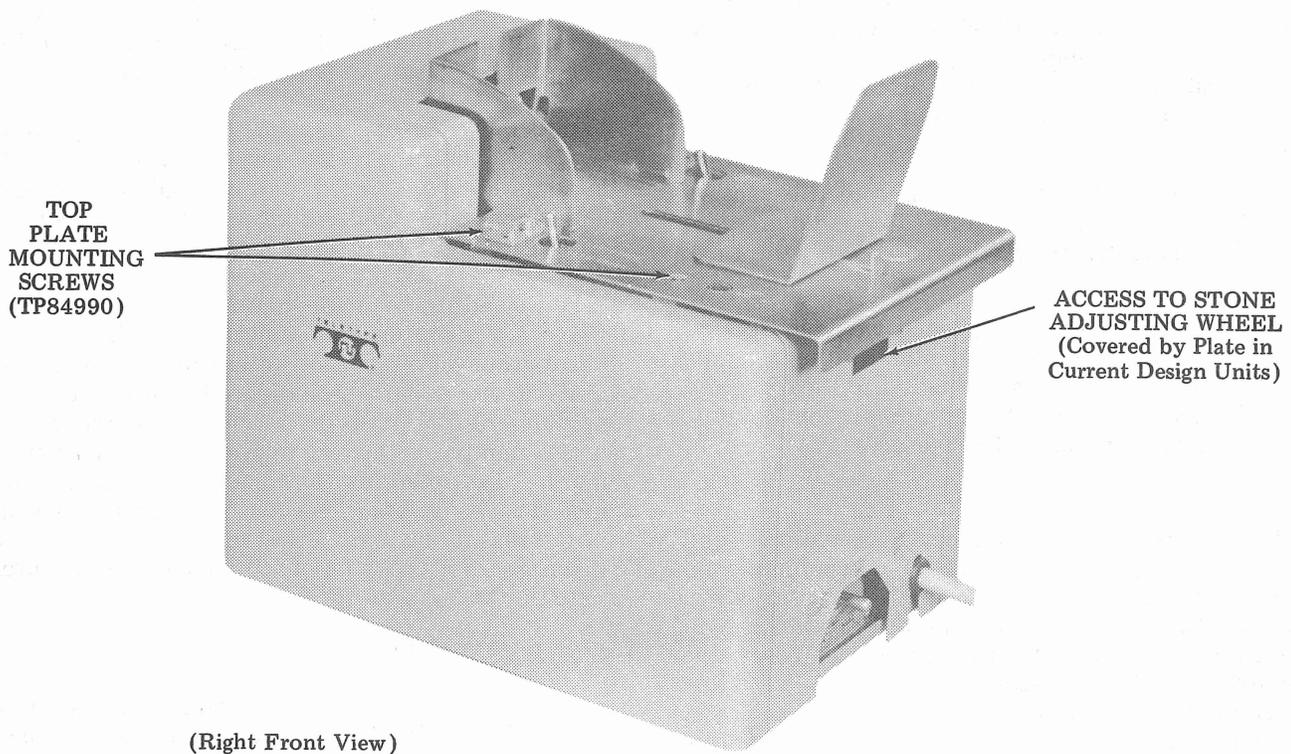
1.10 Refer to tools Section 570-005-800 for information covering standard tools. Photographs in this section are of current design units unless otherwise indicated. Early and intermediate design units differ from current design units mainly in the top plate and cover arrangements. Intermediate and current design units include a sync assurance circuit card (right side) not present in early design units. Where the difference is important to the explanation, alternate illustrations are provided.

2. BASIC UNITS

CAUTION: POWER SHOULD BE DISCONNECTED. WHERE PROCEDURES CALL FOR POWER TO BE CONNECTED,



(Left Front View)



(Right Front View)

Figure 1 - Edge Punched Card Feeder

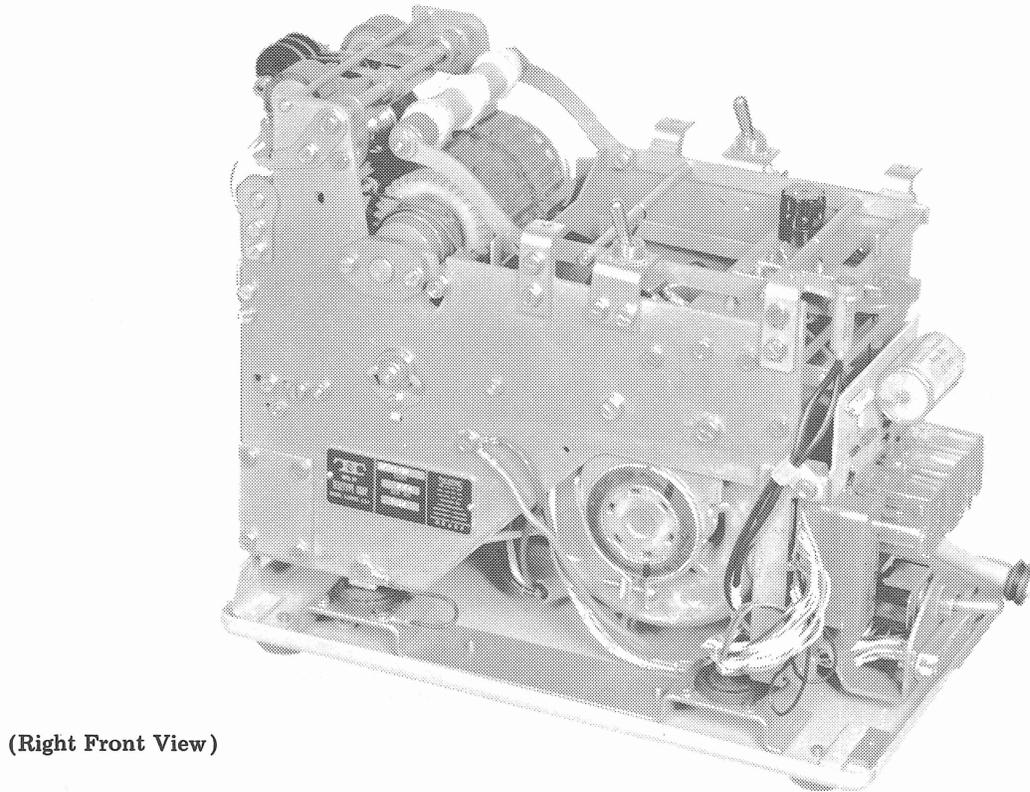
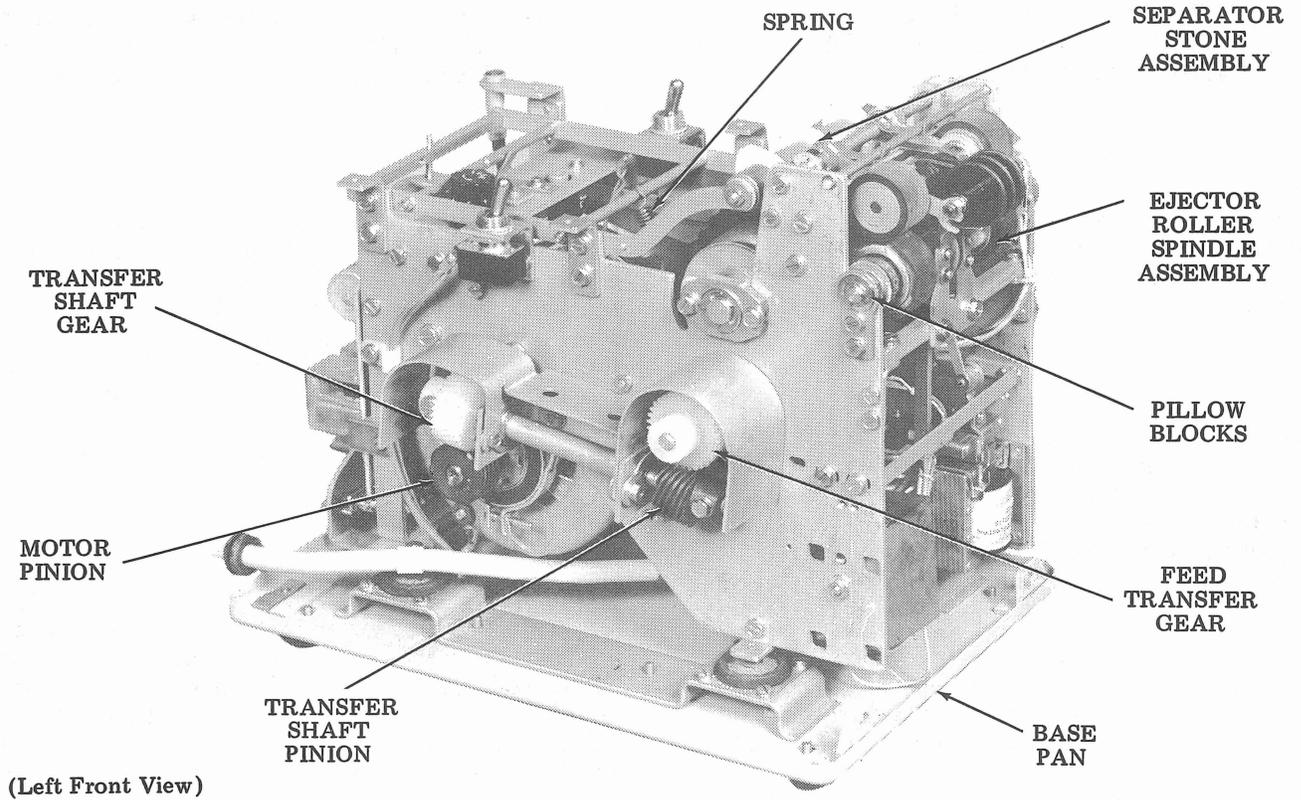


Figure 2 - Edge Punched Card Feeder - Without Top Plate and Cover

APPROPRIATE PRECAUTIONARY MEASURES SHOULD BE TAKEN TO AVOID ACCIDENT.

2.01 In removing a subassembly from the unit, the procedure followed and the location from which parts are removed must be carefully noted so that reassembly can be made correctly. Where no specific instructions are given for reassembly, reverse the procedure used to remove it.

Top Plate

2.02 To remove the top plate (Figure 3), remove four TP84990 screws (Figure 1). To facilitate removing the top plate past the separator stones, push down on the stone adjusting wheel TP320125 (Figure 1). This will raise the stones and allow removal of the top plate.

Note: Current design units have a plate on the inside of the stone adjustment port (Figure 1). To gain access to the stone adjusting wheel, remove one of the plate mounting screws and loosen the other screw so the plate pivots downward.

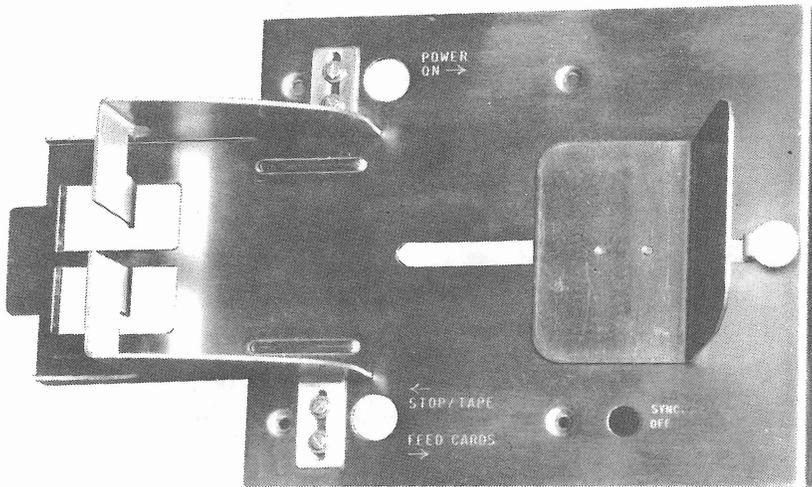
To replace the top plate, push down on the stone adjusting wheel TP320125 to lift the separator stones TP320120. Install the top plate and secure with the four screws TP84990.

Cover

2.03 Remove top plate (2.02). Loosen the two screws TP151630 holding the two cover clamps TP320094 on the bottom right of the base pan (Figures 2 and 4). Slide these two screws inward so the clamps release the tabs on the bottom right edge of the cover. Push toward the left on cover to release the two studs on the bottom left edge, and lift the cover from the feeder. To replace cover, reverse the procedure used to remove it.

Base Pan

2.04 To remove the base pan TP320093 (Figure 2), remove the four screws TP151632 mounting the coupler brackets TP320102 and TP320103, and remove the coupler brackets. Remove the two screws TP151632 which are tightened directly against the base pan. Remove the base pan. To replace the base pan, reverse the procedure used to remove it.



(Top View)

Figure 3 - Top Plate Assembly

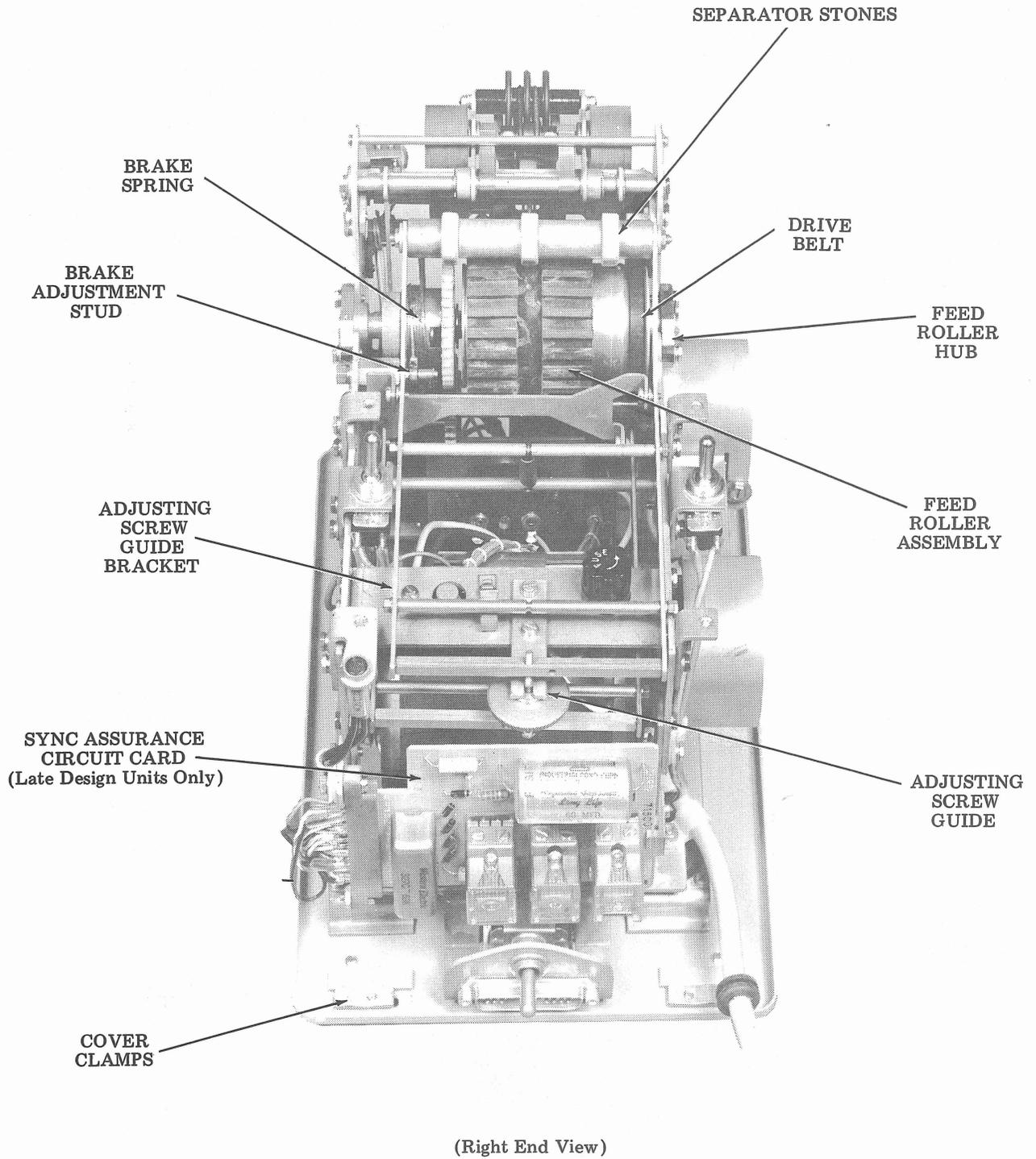


Figure 4 - Edge Punched Card Feeder - Without Top Plate and Cover

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Circuit Card (Late Design Units Only)

2.05 To remove the sync assurance circuit card on late design units (Figure 4), remove the TP151658 screw holding the fiber support TP323477 to the rear vertical member of the lower rear brace. Pull the card to the rear of its connector. To reassemble, reverse the procedure used in removal.

Separator Stones

2.06 The separator stones (Figure 4) may be rotated 180 degrees when worn but the shaft must not be turned end for end. To turn the separator stone TP320120, loosen the two nuts TP3598 on the end of the separator stone aligning

shaft TP320118. Rotate stones and adjust as explained in Section 574-246-700. Tighten the nuts. Avoid excess pressure to prevent cracking of stones.

Separator Stone Assembly

2.07 To remove the separator stone assembly TP320072 (Figure 2) remove the two screws TP152893 mounting the adjusting screw guide TP320077. Remove the spring TP109675 from the adjusting frame spacer TP320116. Remove the four TP151631 screws mounting the TP320109 stone adjusting screw guide brackets. Remove the two screws TP151630 mounting the pivots TP320110. Remove the two TP151630 screws mounting the

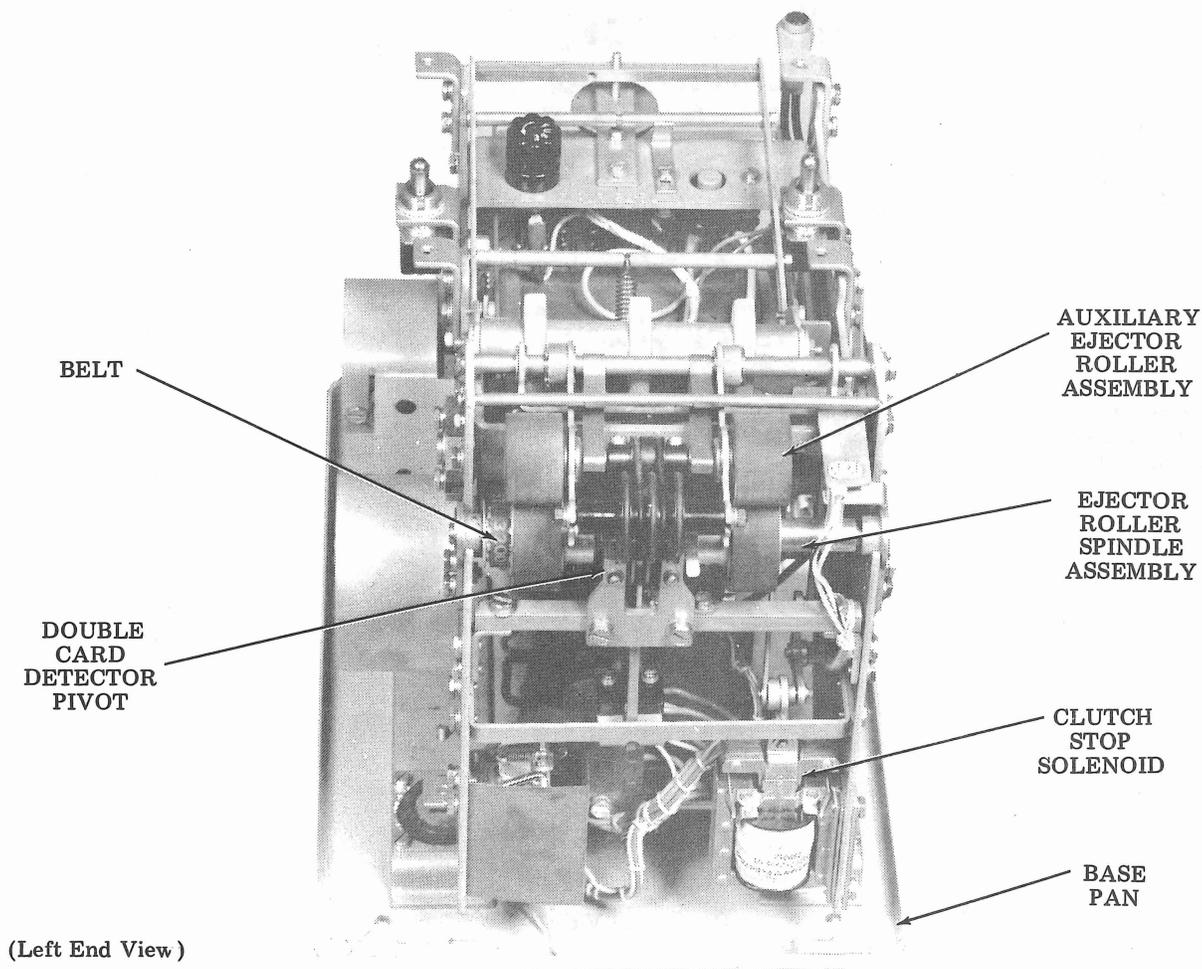


Figure 5 - Edge Punched Card Feeder - Without Top Plate and Cover

TP320112 switch bracket to the front side frame. Lift the separator stone assembly from the unit and carefully guide the switch assembly through the framework to free the stone assembly. To replace the separator stone assembly, reverse the procedure used to remove it.

Feed Roller Assembly

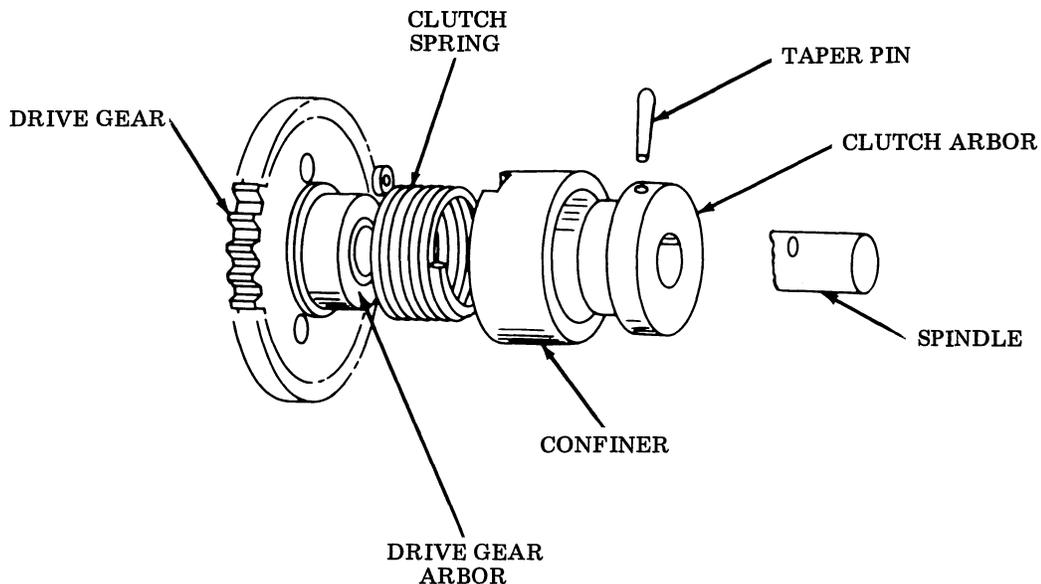
2.08 To remove the feed roller assembly TP323467 (Figure 4), proceed as follows: Remove the four screws TP151632 clamping the two feed roller hubs. Remove the retainer ring TP119649 that attaches the brake spring TP320146 to the link TP320134. Remove the nut TP3354 securing the brake adjustment stud. Remove the retaining rings TP119655 from the feed roller shaft and remove the two feed roller hubs TP320075. Disengage the drive belt TP320069 from the feed roller pulley. Lift the feed roller assembly from the unit. To replace the feed roller assembly, reverse the procedure used to remove it.

Feed Roller Rubber

2.09 With the feed roller assembly removed from the unit, the old rubber may be cut off and the new rubber installed.

Feed Roller Stop Clutch Assembly

2.10 To disassemble the stop clutch (Figure 6), remove the taper pin in the clutch arbor. Turn the arbor counterclockwise while carefully pulling it out of the spring. Remove the confiner and drive gear. Turn the spring clockwise to remove it from the feed roller drive gear arbor. To reassemble, turn clutch spring onto feed roller drive gear arbor. Loop of spring must be against the gear face. Install the confiner over the clutch spring. Set the tape pin hole (large end) in the spindle at 12 o'clock. Align the pin hole (large end) in the arbor at 2 o'clock. Carefully turn counterclockwise and push the arbor into the spring until the holes are aligned. This procedure



(Left Side View)

Figure 6 - Feed Roller Clutch Assembly

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may be used as a guide as it is difficult to align in holes by turning clockwise. Pin the clutch arbor to the spindle.

Brake Spring

2.11 To remove the brake spring TP320146 (Figure 4) after the feed roller is out of the unit, remove the retainer ring and the spacer TP320147 from the brake adjustment stud. Should the brake spring be worn, stretched, or only partially gripping, it must be replaced. To replace the brake spring, reverse the procedure used to remove it.

Ejector Roller Spindle Assembly

2.12 To remove the ejector roller spindle assembly TP320068 (Figure 5) remove the four screws TP151630 mounting the two

pillow blocks TP320076. Remove the two screws securing the double card detector pivot TP320136 (Figure 5). Remove the retainer ring TP119653 from the ejector roller spindle shaft and remove the pillow blocks. Disengage the timing belt TP320069 from the pulley and lift the spindle free of the feeder. If necessary, the rubber TP320107 is used to replace worn rubber on the ejector roller spindle assembly. To replace the ejector roller spindle assembly, reverse the procedure used to remove it.

Clutch Stop Solenoid

2.13 To replace the clutch stop solenoid TP139012 (Figure 5), remove the four screws TP151631 from nut plates TP320128 mounting the solenoid. Remove the retainer ring TP119649 on the pin TP153565. Remove the pin and lift out solenoid. To replace the clutch stop solenoid, reverse the procedure used to remove it.