

43 TRACTOR FEED PRINTER  
DISASSEMBLY/REASSEMBLY

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1. GENERAL		
1.01 This section covers disassembly and reassembly procedures for the 43 tractor feed printer. Refer to Section 574-501-720 for the 43 friction and sprocket (pin) feed printer Disassembly/Reassembly.		
1.02 Whenever this section is reissued, the reason for reissue will be listed in this paragraph.		

SECTION 574-501-721

1.11 When ordering replaceable parts or components, unless otherwise specified, prefix each part number with the letters "TP" (ie, TP410055).

1.12 Reference in the procedures to left and right, up or down, and top or bottom, etc, refer to the printer in its normal operating position.

2. TOOLS REQUIRED

2.01 The following tools may be required when performing the printer disassembly and reassembly procedures. Most of these items should normally be present in standard maintenance tool kits.

<u>Part No.</u>	<u>Description</u>
75765	Hook, Pull Spring
95368	Screwdriver, 1/8 Inch, 2 Inch Blade
100704	Screwdriver w/Clip, 10 Inch Blade

<u>Part No.</u>	<u>Description</u>
100982	Screwdriver w/Clip, 1/4 Inch 6 Inch Blade
108285	Pliers, Long-Nose
110271	Wrench, Hex Key
124682	Wrench, Hex Key
125752	Wrench, 3/16 Inch Socket
129534	Wrench, Open End, 3/16 Inch and 1/4 Inch
129536	Wrench, Open End, 7/16 Inch and 1/2 Inch
135676	Handle
135677	Bit, 1/4 Inch Socket
135678	Bit, 5/16 Inch Socket
142554	Hook, Pull Spring
142555	Hook, Push Spring
151392	Tweezers
152835	Wrench, Open End, 5/16 Inch and 3/8 Inch
407326	Extractor, I.C.

### 3. DISASSEMBLY/REASSEMBLY

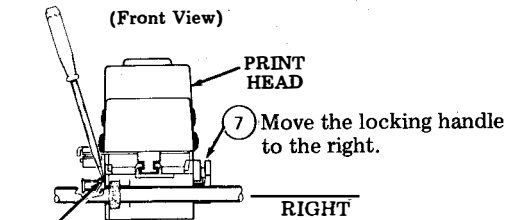
#### PRINT HEAD WITH COVER

##### 3.01 To remove the print head with cover:

*Caution: When handling loose print heads, care must be taken to prevent print head cable connector pins from being bent.*

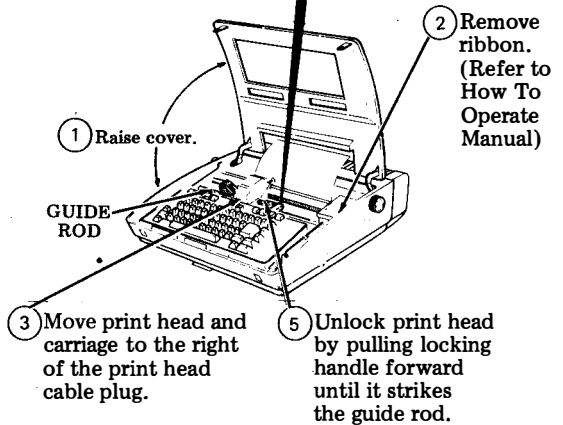
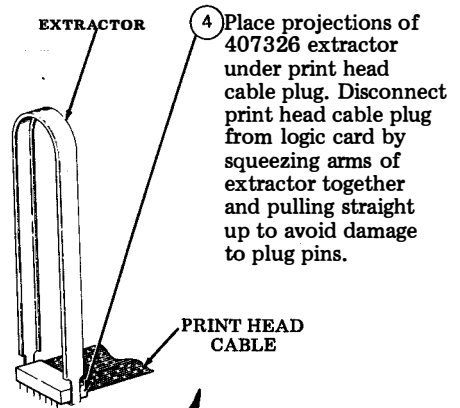
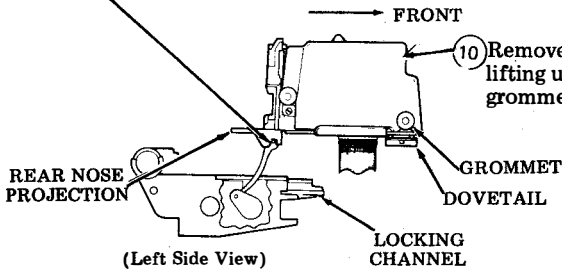
*Note: Print head removal and replacement is also shown in Teleprinter Disassembly/Reassembly, Section 574-500-720.*

- ⑧ Grasp print head and pull forward. Lift front of print head to disengage locking channels.



- ⑦ Move the locking handle to the right.

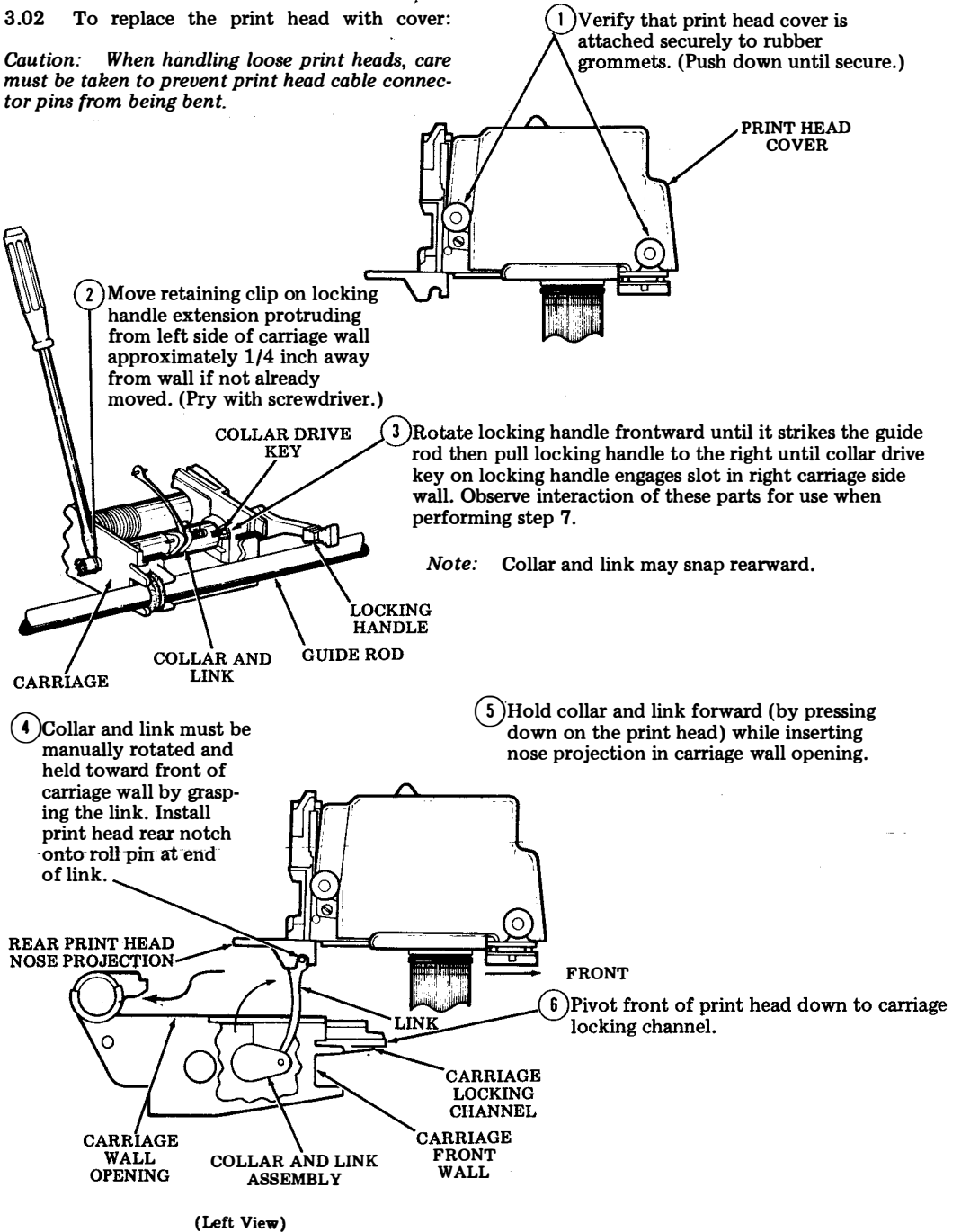
- ⑨ Disengage print head from roll pin on end of link. Remove print head.

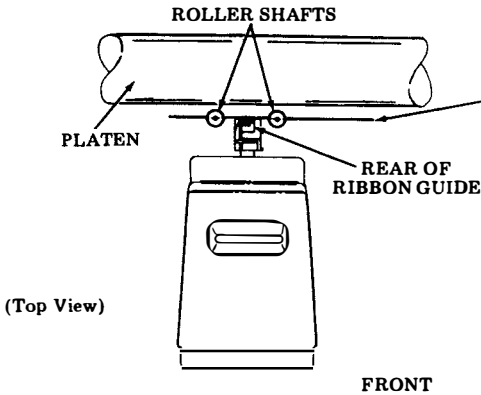


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3.02 To replace the print head with cover:

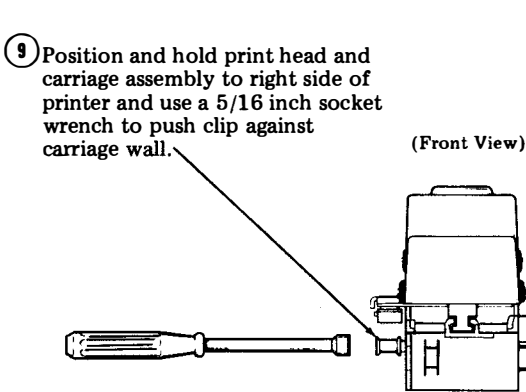
*Caution: When handling loose print heads, care must be taken to prevent print head cable connector pins from being bent.*





7 Slowly push print head rearward and further into the carriage locking channel until the rear of the ribbon guide is even with center of roller shafts. Apply continuous leftward pressure to locking handle at its pivot shaft, while slowly pulling print head forward until collar drive key on handle engages (snaps) into slot in collar.

*Note:* Parts referred to were visible in step 3.

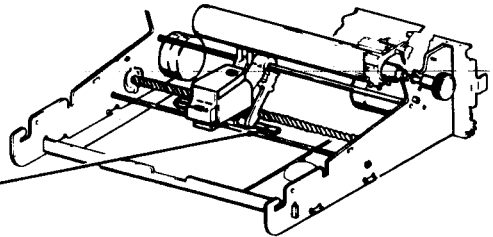


9 Position and hold print head and carriage assembly to right side of printer and use a 5/16 inch socket wrench to push clip against carriage wall.

8 Move the handle all the way to the rear, locking the print head in close proximity to the platen by the additional force necessary to detent the handle. If handle does not move to rear, the drive key did not properly engage the collar slot (step 7).

*Note:* Check to make sure there is some clearance between print head and platen before detenting handle. Check PRINT HEAD TO PLATEN adjustment.

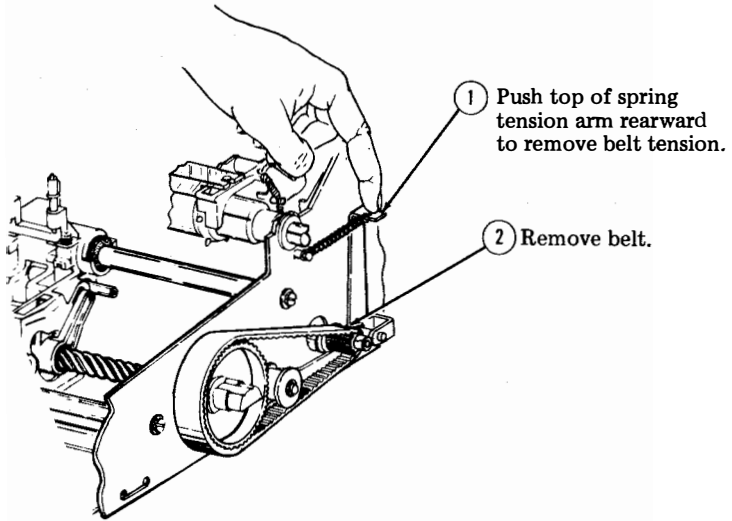
10 Check that no connector pins are bent and carefully connect the print head cable plug to the logic card. Make sure cable does not touch left side frame when the carriage moves fully left.



11 Install ribbon. (Refer to How To Operate Manual or label under cover.)

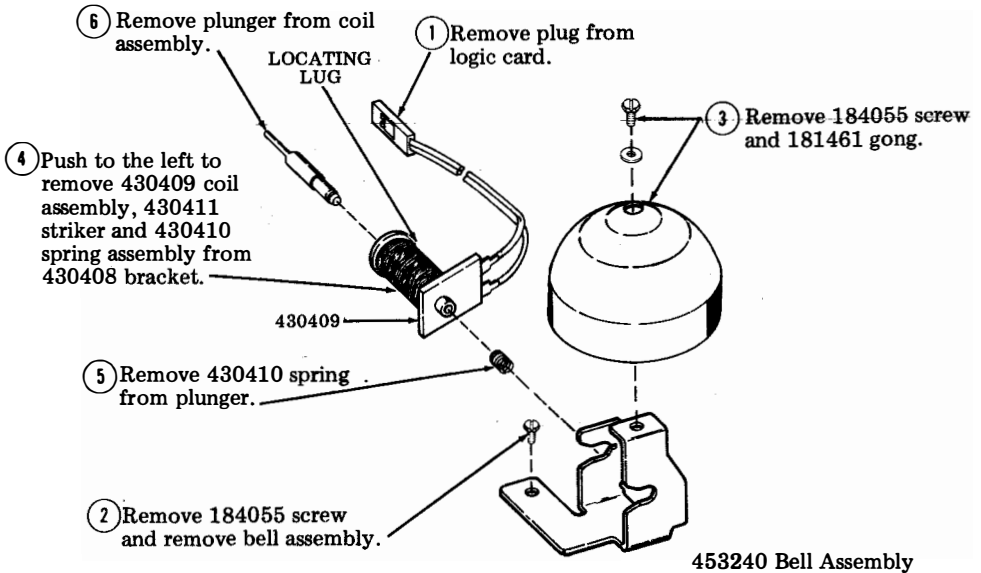
SPACING MOTOR BELT

3.03 To remove the spacing motor belt:



SIGNAL BELL

3.04 To remove the signal bell:

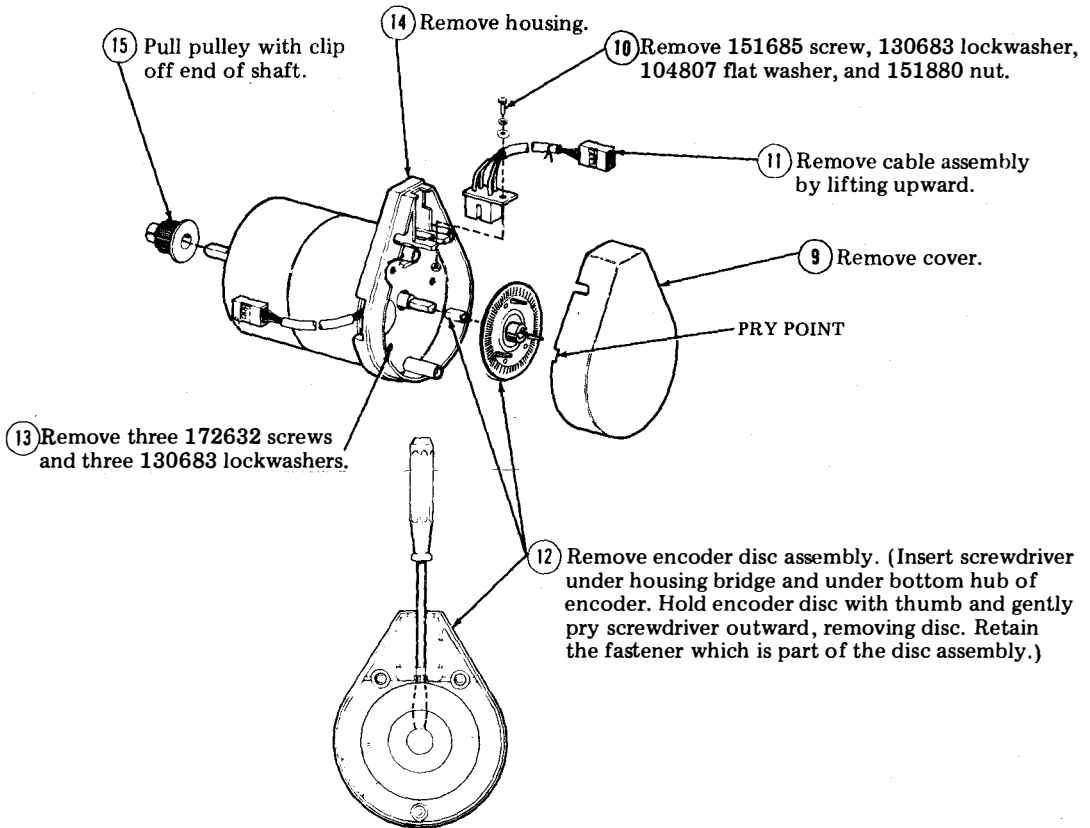
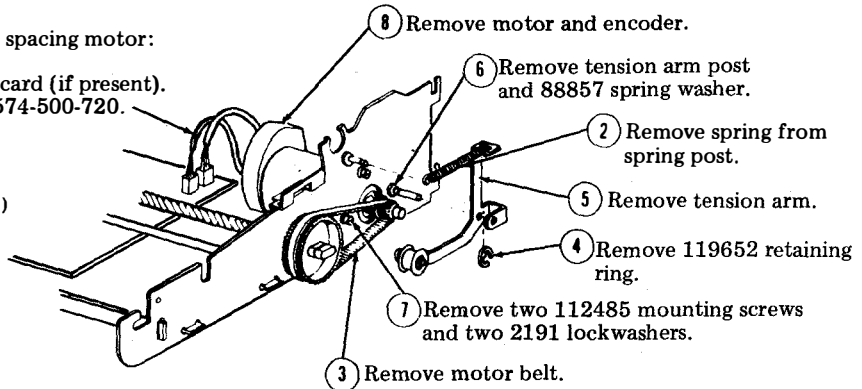


## SPACING MOTOR WITH CABLE AND ENCODER

3.05 To remove the spacing motor:

- ① Remove the logic card (if present).  
Refer to Section 574-500-720.

(Right Side View)

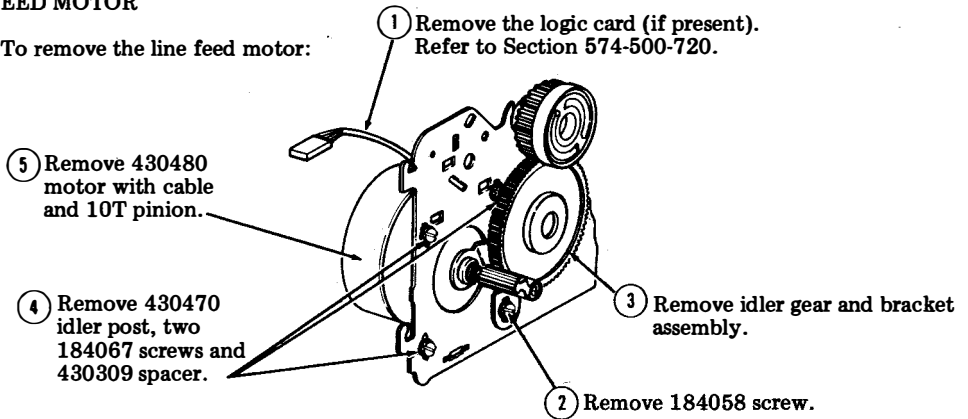


**Warning:** Do not pull on metal disc edges as this will deform encoder disc causing it to rub against the encoder.

**Note:** In reassembly, make sure disc does not rub on encoder assembly.

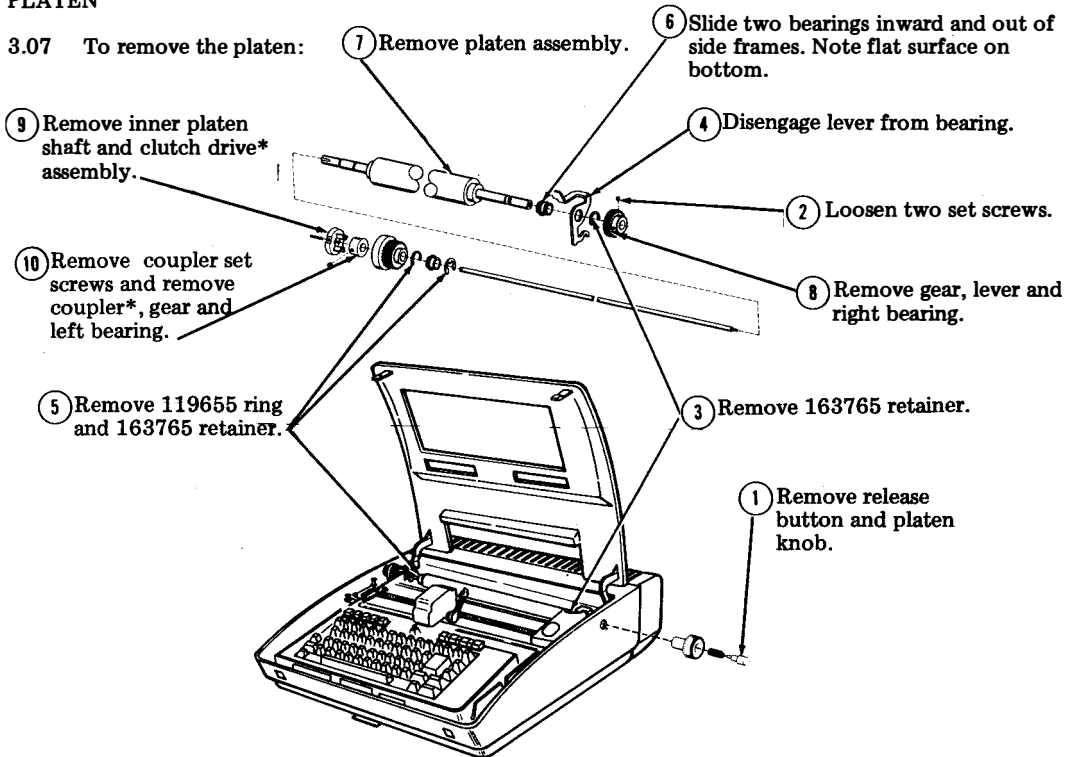
LINE FEED MOTOR

3.06 To remove the line feed motor:



PLATEN

3.07 To remove the platen:



\*Clutch drive must be engaged with coupler when coupler set screws are tightened.

Perform PLATEN ENDPLAY adjustment.

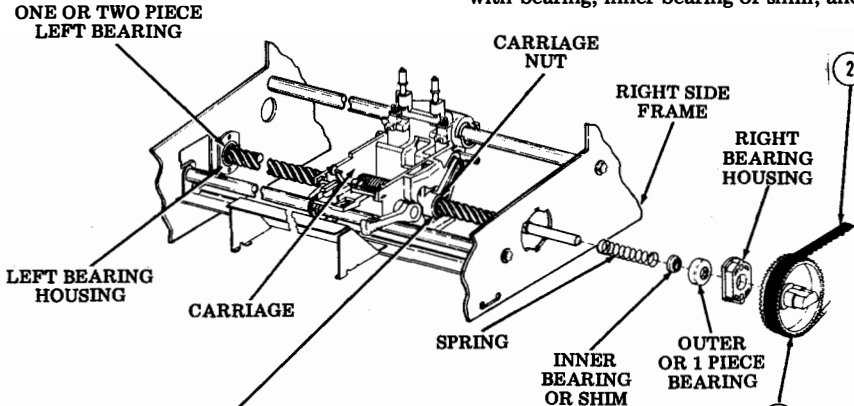


**LEAD SCREW**

3.08 To remove the lead screw:

① Remove keyboard if present.  
(Refer to Section 574-500-720.)

④ Push in right bearing housing to clear right frame. Rotate 90 degrees and spring will force bearing and housing away from side frame. Remove housing with bearing, inner bearing or shim, and spring.



② Remove spacing belt.

⑤ Unscrew lead screw from carriage nut and remove through hole in right side frame. Retain left inner bearing, is used, which will be free when lead screw is removed.

③ Remove lead screw pulley and clip by pulling to the right.

(Right Side View)

## CARRIAGE WITH POST ASSEMBLY

3.09 To remove the carriage with post assembly:

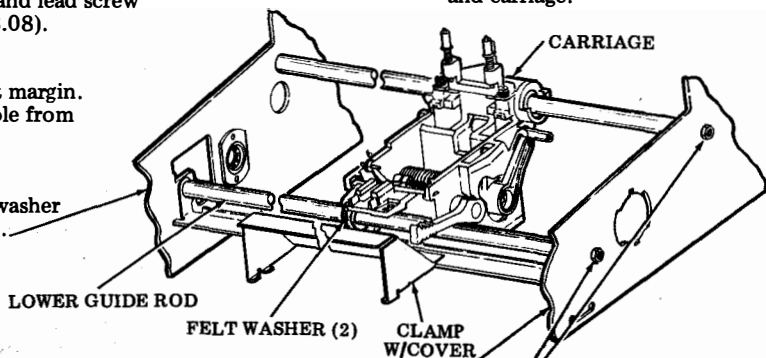
*Note:* The upper guide rod must be nickel plated. The lower guide rod may be nickel plated or black oxide.

- ① Remove keyboard, if present.  
(Refer to Section 574-500-720.)
- ② Remove print head and lead screw  
(perform 3.01 and 3.08).

- ⑦ Spread left side frame and  
remove upper guide rod  
and carriage.

- ③ Move carriage to left margin.  
Remove carriage cable from  
logic card.

- ④ Remove screw and washer  
from each guide rod.



- ⑥ Spread clamp with cover and disengage from  
logic card (if present). Spread left side frame  
outward to disengage left end of lower guide  
rod, then pull toward the front to remove lower  
guide rod, two felt washers and clamp with cover.

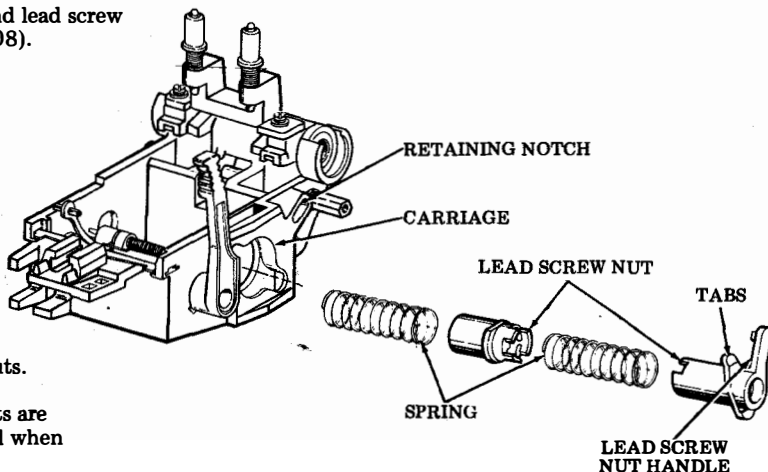
- ⑤ Remove nut and lockwasher  
from each guide rod.

## LEAD SCREW NUT

3.10 To remove the lead screw nut:

- ① Remove keyboard, if present.  
(Refer to Section 574-500-720.)
- ② Remove print head and lead screw  
(perform 3.01 and 3.08).

- ③ Tilt lead screw nut  
handle outward to  
clear retaining  
notch in carriage.  
Rotate counterclock-  
wise (CCW) until  
tabs on nut align  
with opening in  
carriage. Spring  
will force nut  
away from carriage.

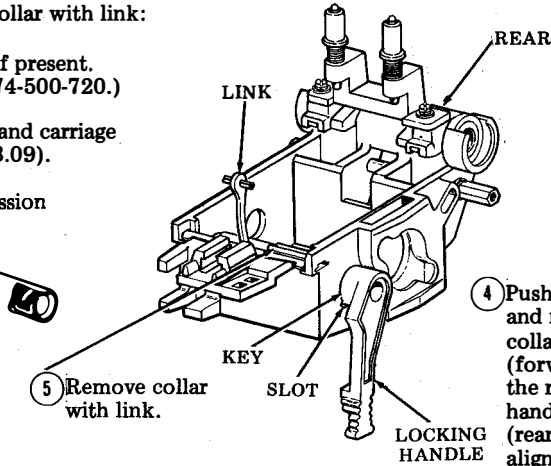


*Note:* The lead screw nuts are keyed and must be engaged when properly installed.

## COLLAR WITH LINK

3.11 To remove the collar with link:

- ① Remove keyboard, if present.  
(Refer to Section 574-500-720.)
- ② Remove print head and carriage  
(perform 3.01 and 3.09).
- ③ Remove compression  
ring.

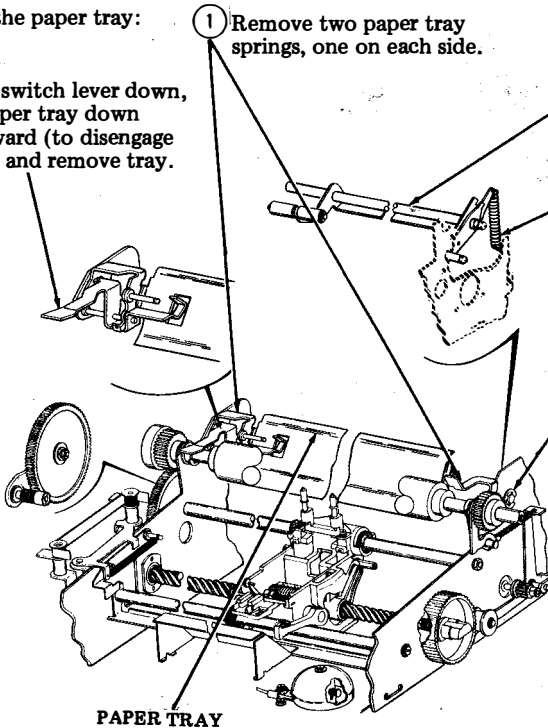


- ④ Push locking handle to the left and rotate locking handle and collar fully counterclockwise (forward). Pull the handle to the right while slowly rotating handle and collar clockwise (rearward) until key on handle aligns with slot in carriage. Locking handle will pop out.
- ⑤ Remove collar with link.

## PAPER TRAY

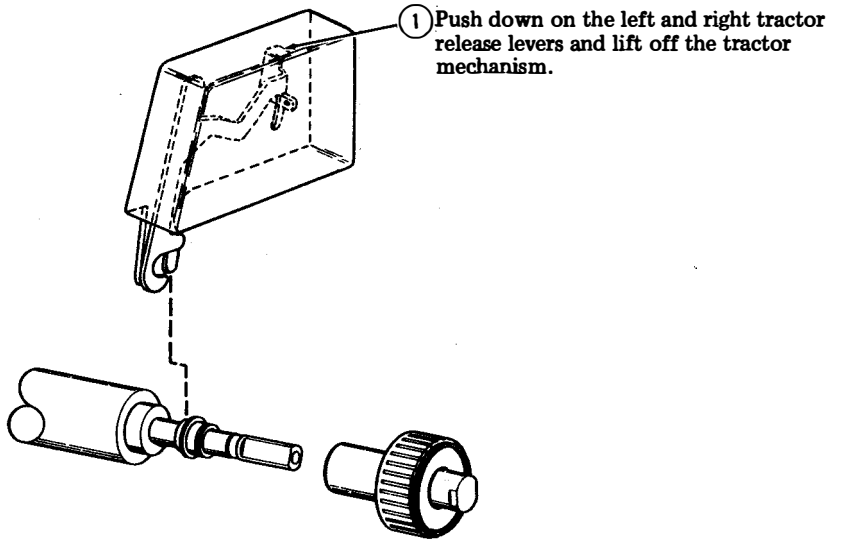
3.12 To remove the paper tray:

- ① Remove two paper tray springs, one on each side.
- ② Remove pressure roller spring.
- ③ Remove shaft ring and pull shaft left to remove.
- ④ Remove pressure roller assembly.
- ⑤ Holding switch lever down, move paper tray down and forward (to disengage bracket) and remove tray.

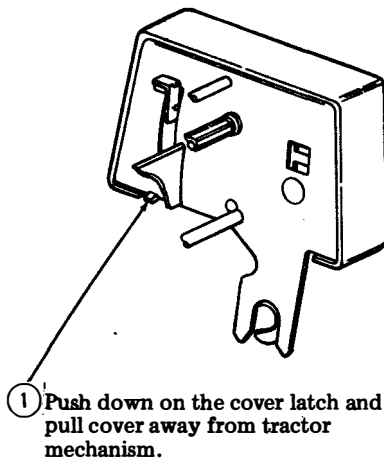


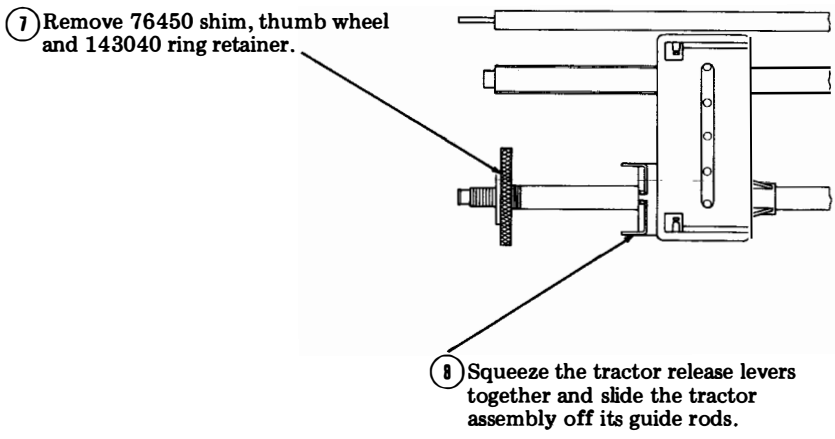
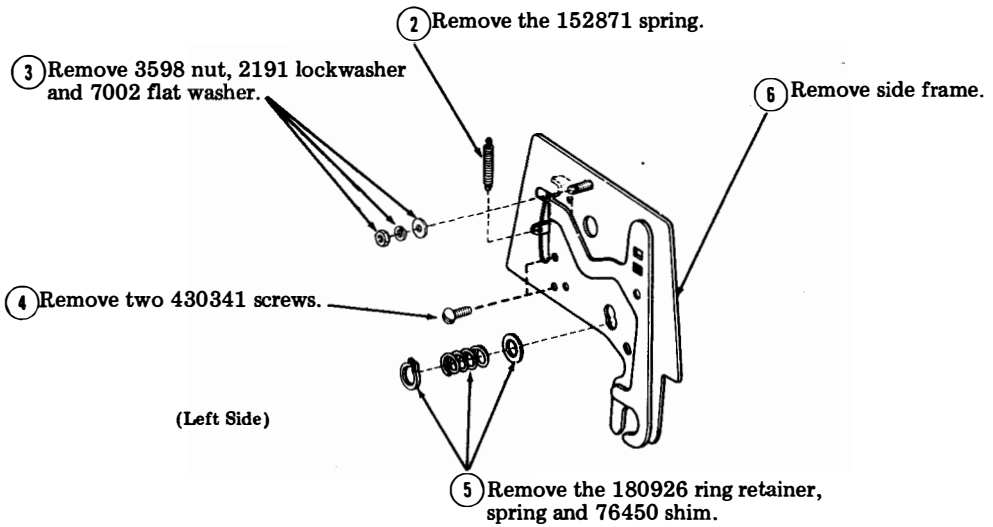
TRACTOR MECHANISM

3.13 (a) To remove the tractor mechanism:

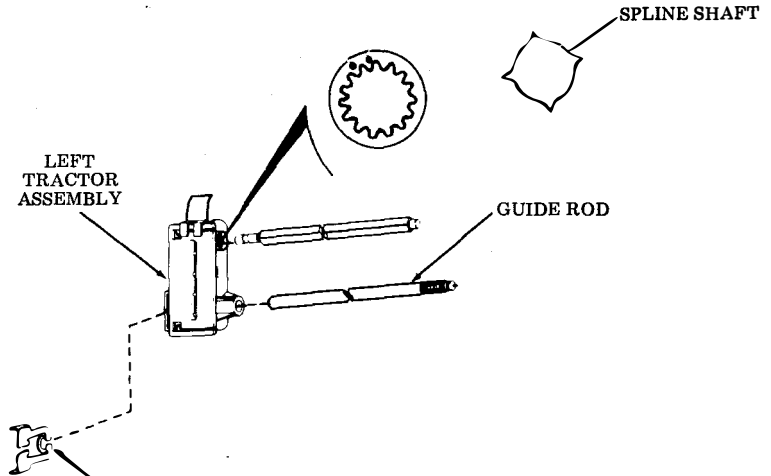


3.13 (b) To disassemble the tractor mechanism:



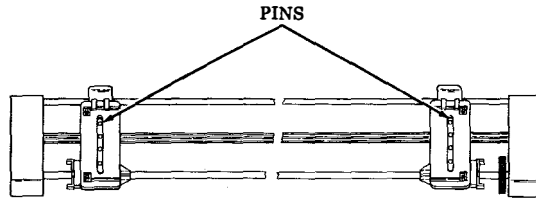


3.12 (c) To reassemble the tractor mechanism:



① Squeeze the tractor release levers together and slide the right tractor assembly onto the guide rod and the spline shaft. Be sure the release lever is facing the right side frame.

② Squeeze the tractor release levers together and slide the left tractor assembly onto the guide rod and the spline shaft. When sliding onto the spline shaft, make sure the pins are aligned horizontally as shown below.



③ Reassemble the remainder of the components removed in (b).