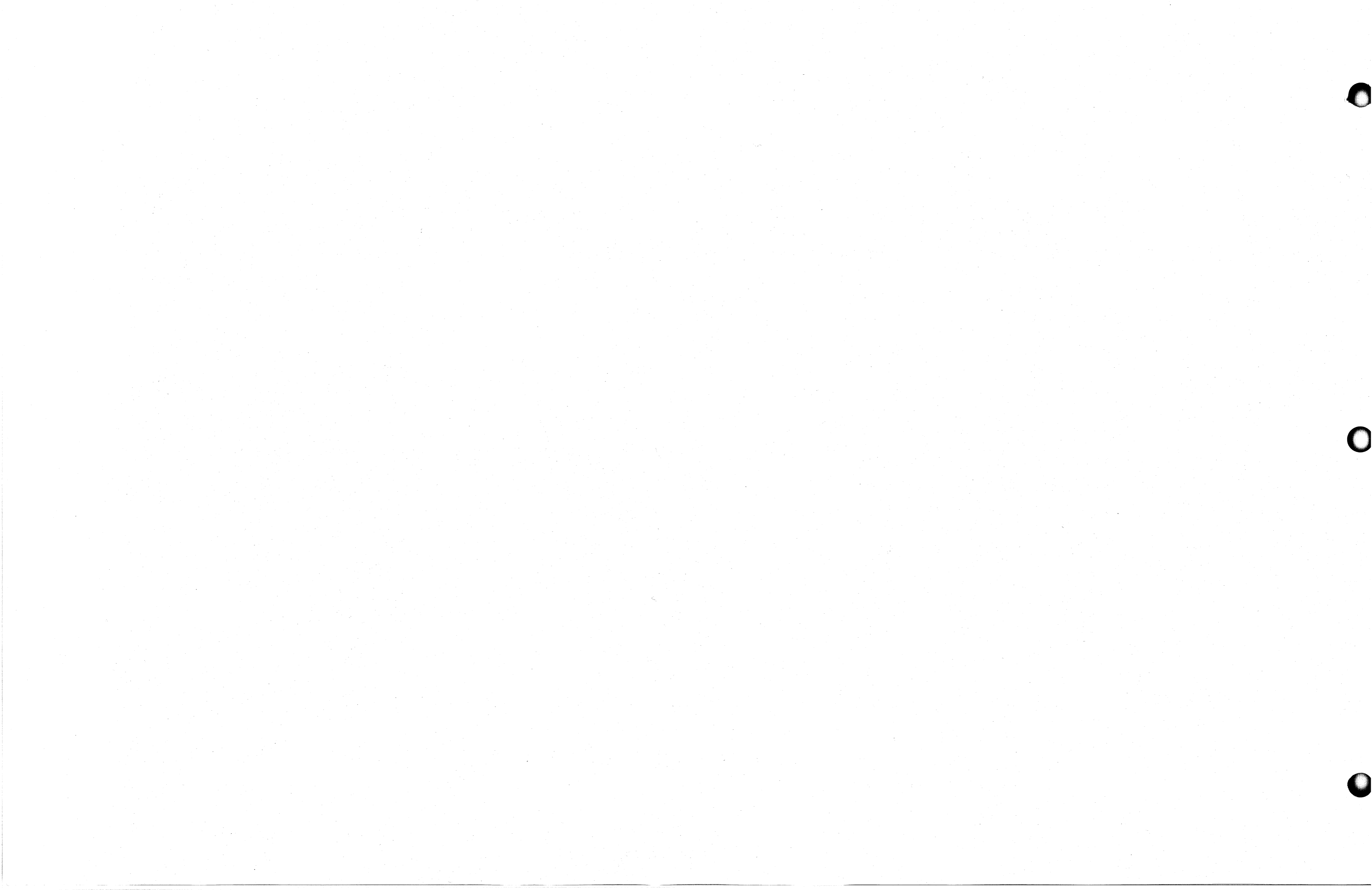


**Maintenance
Manual
Field Level**

**DASHER™ LP2 and
TP2 PRINTERS**

015-000089-00



**Maintenance
Manual
Field Level
DASHER™ LP2
and TP2 PRINTERS**

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FIRST EDITION

(First Printing December 1978)

PREFACE

This manual contains key replacement and adjustment procedures for Series 6073 through 6078 DASHER™LP2 and TP2 Printers. For additional information on these printers, see DASHER™LP2 and TP2 PRINTERS Operator's Manual (DGC No. 014-000093) and DASHER™LP2 and TP2 PRINTERS, User's Manual (DGC No. 014-000094).

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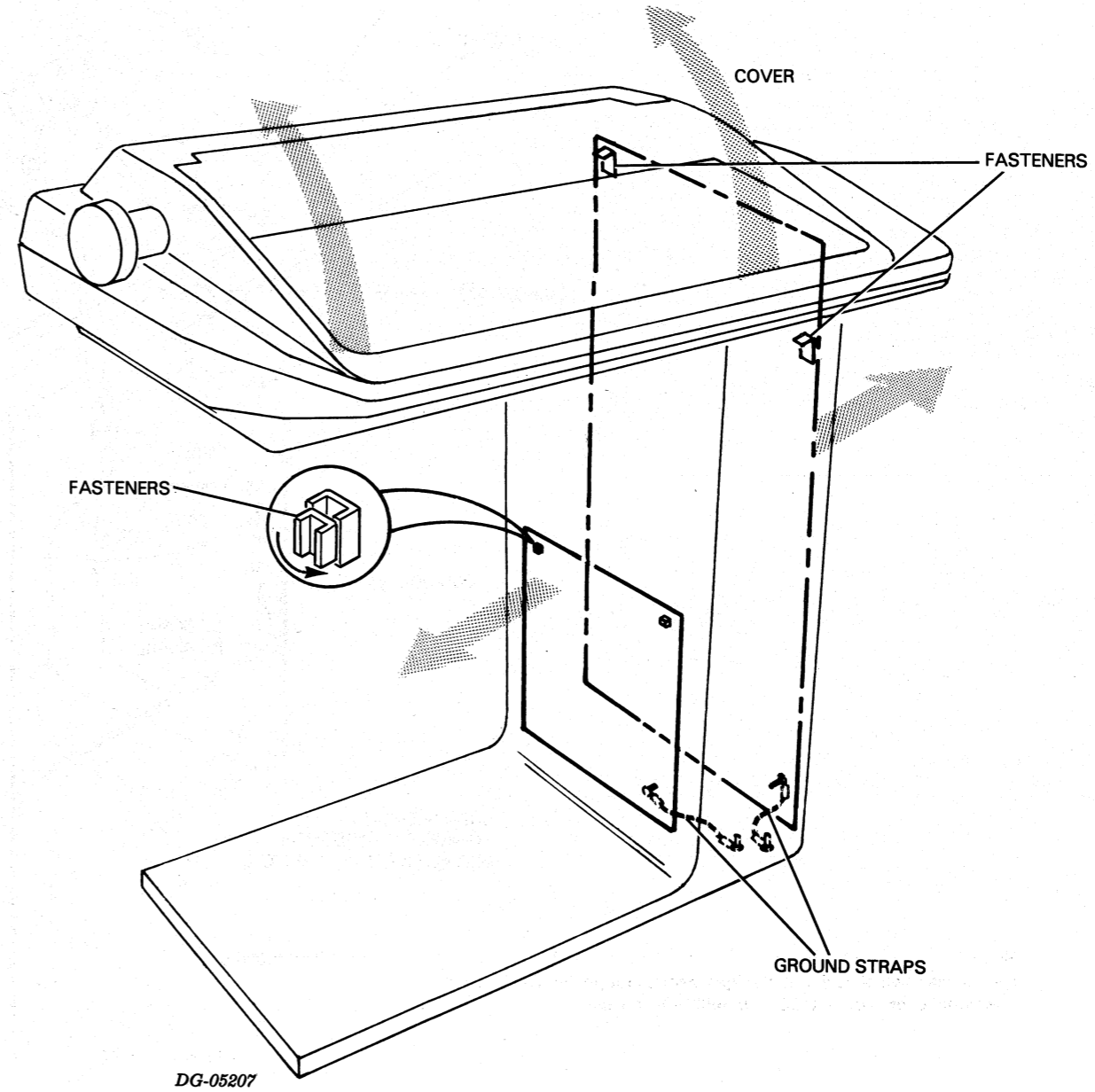
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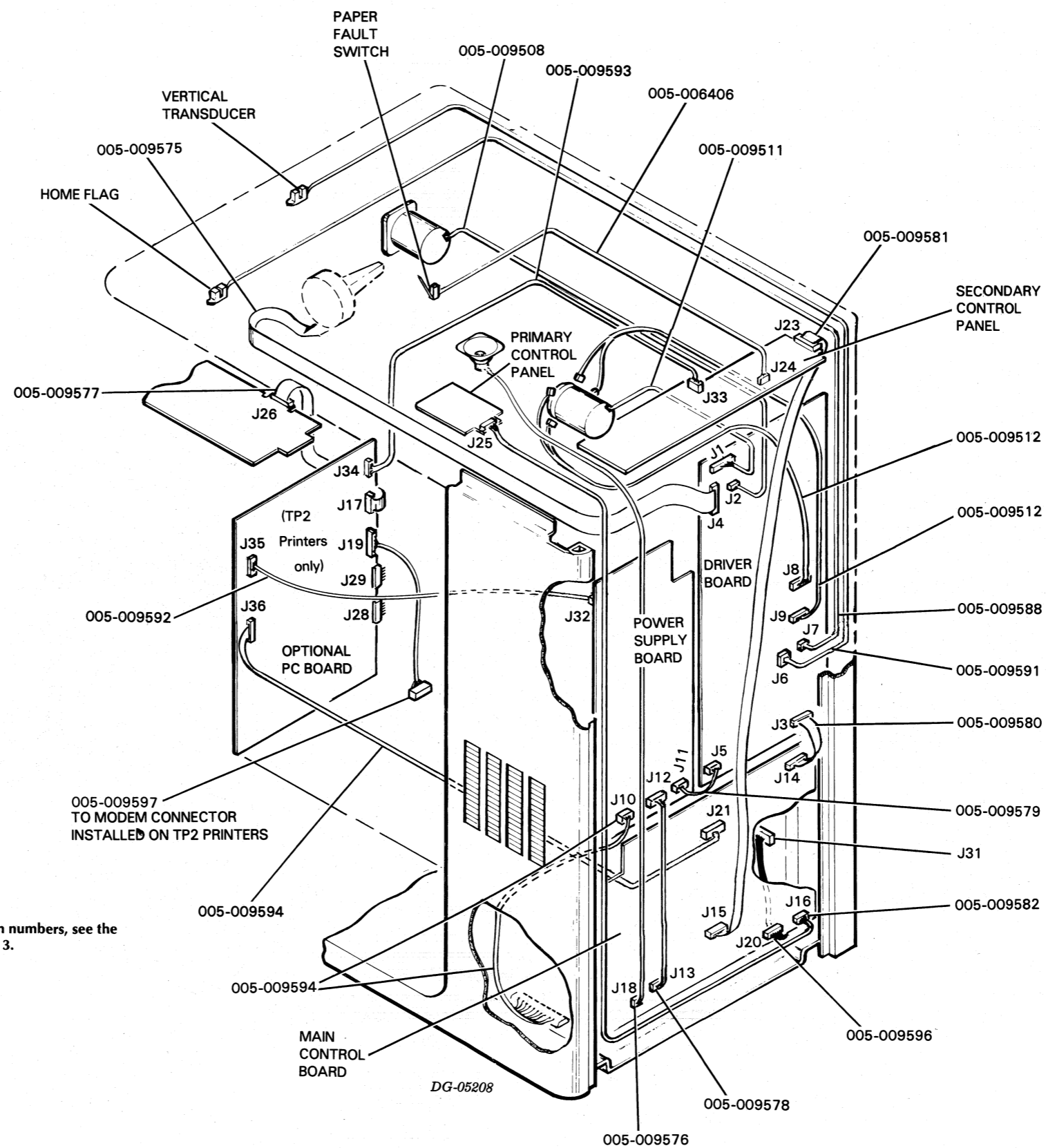
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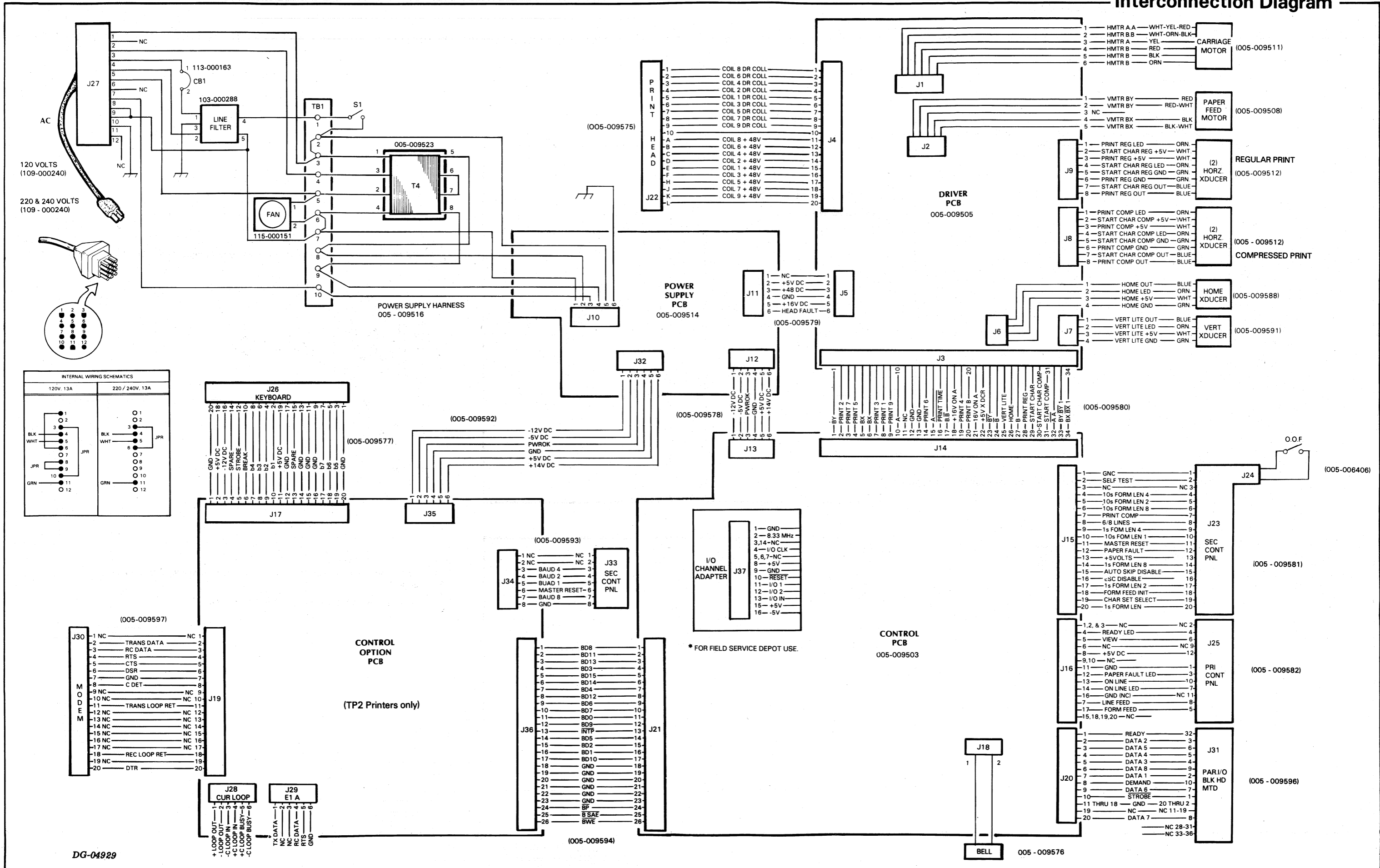
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Engineering Data Sheets: DASHER LP2 and TP2 PRINTERS

SERIES 6073-6078

Interconnection Diagram



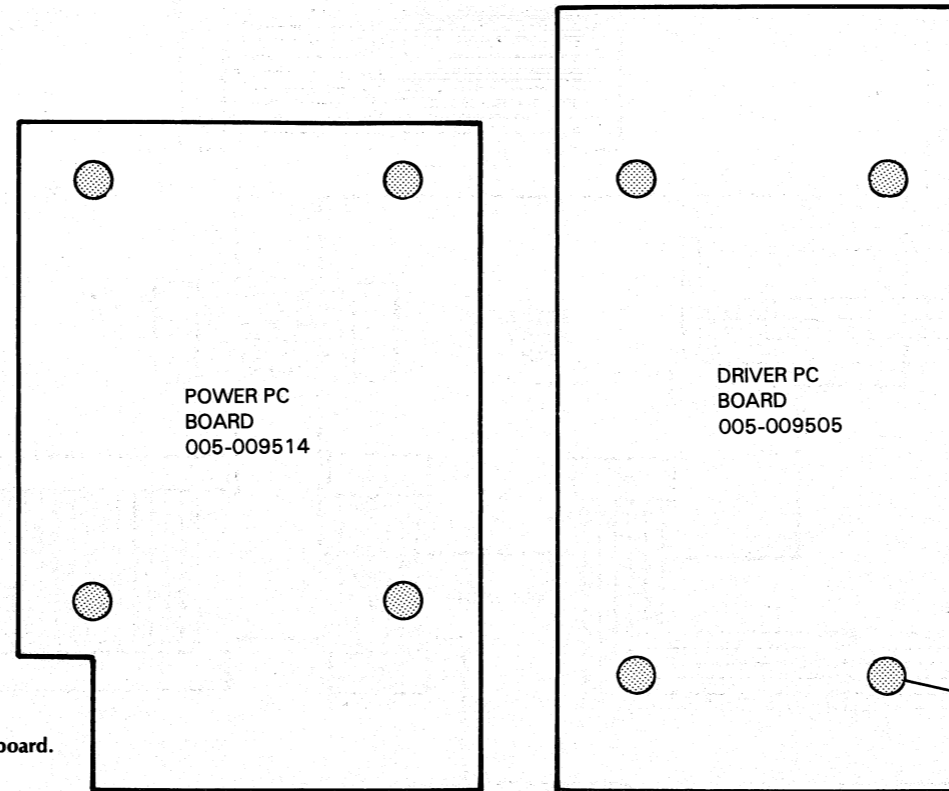
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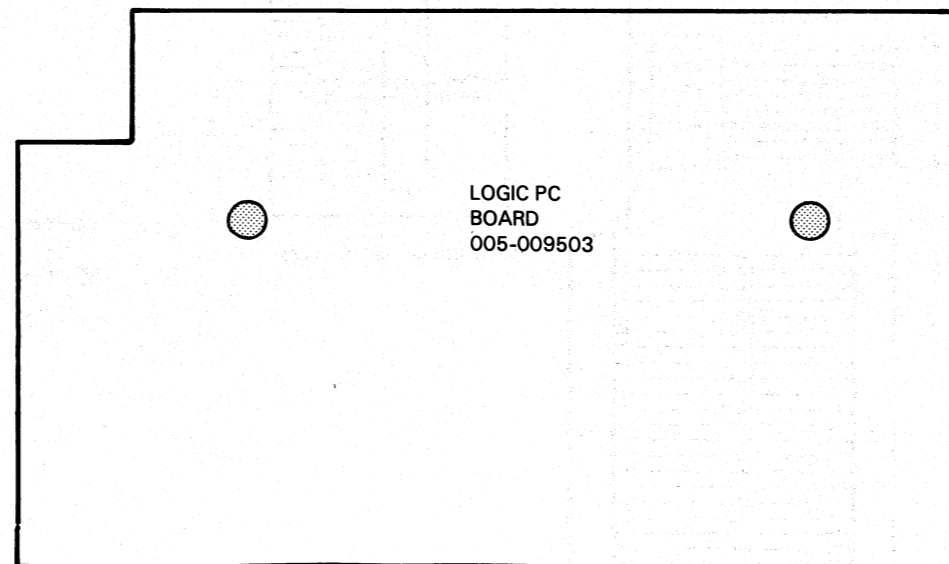
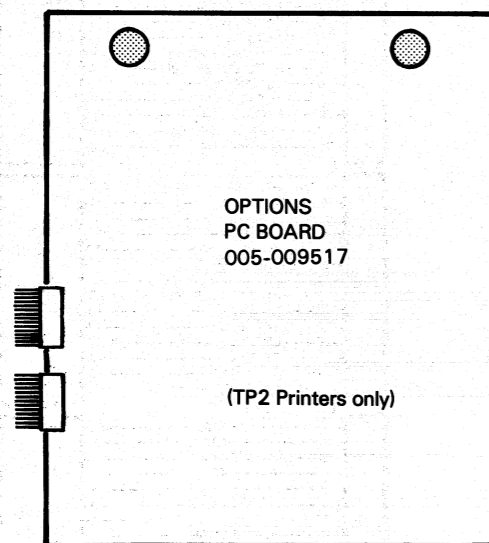
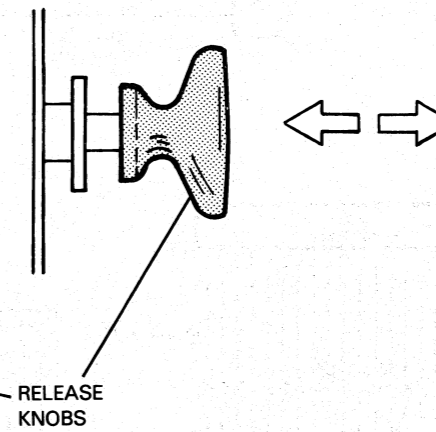
--CAUTION--
 Be sure the power cord is unplugged from the wall or from the rear of the unit before removing any of the cable connectors or boards.

- 1 Label all of the cable connectors with their respective J numbers. Unplug all the cable connectors from the board.

Note:
 The Power PC Board has a cover which must be removed before the board.



- 2 Pull the release knobs (they will click when open). Remove the board.

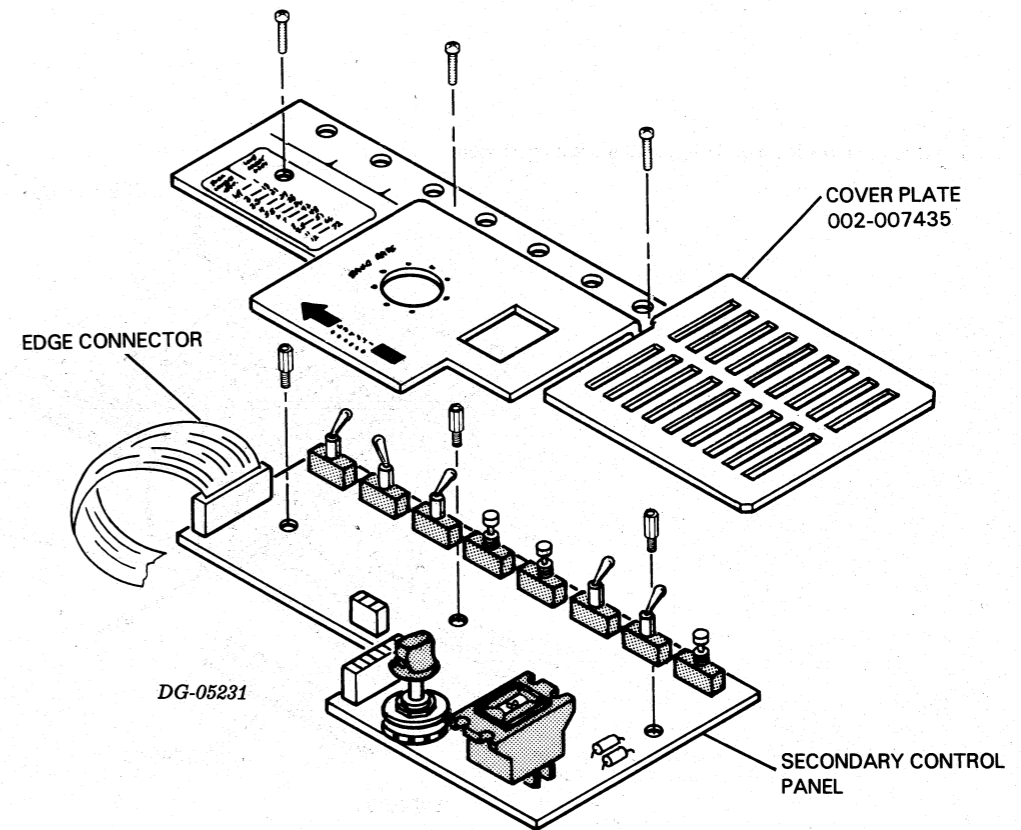
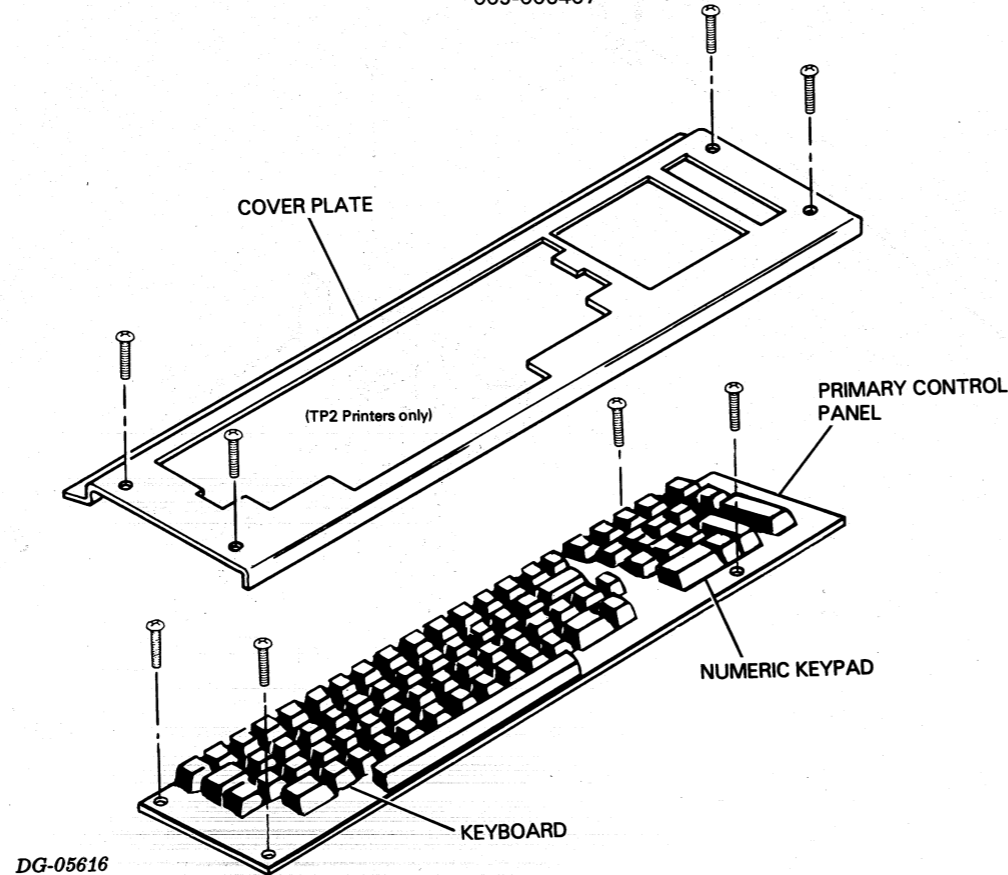
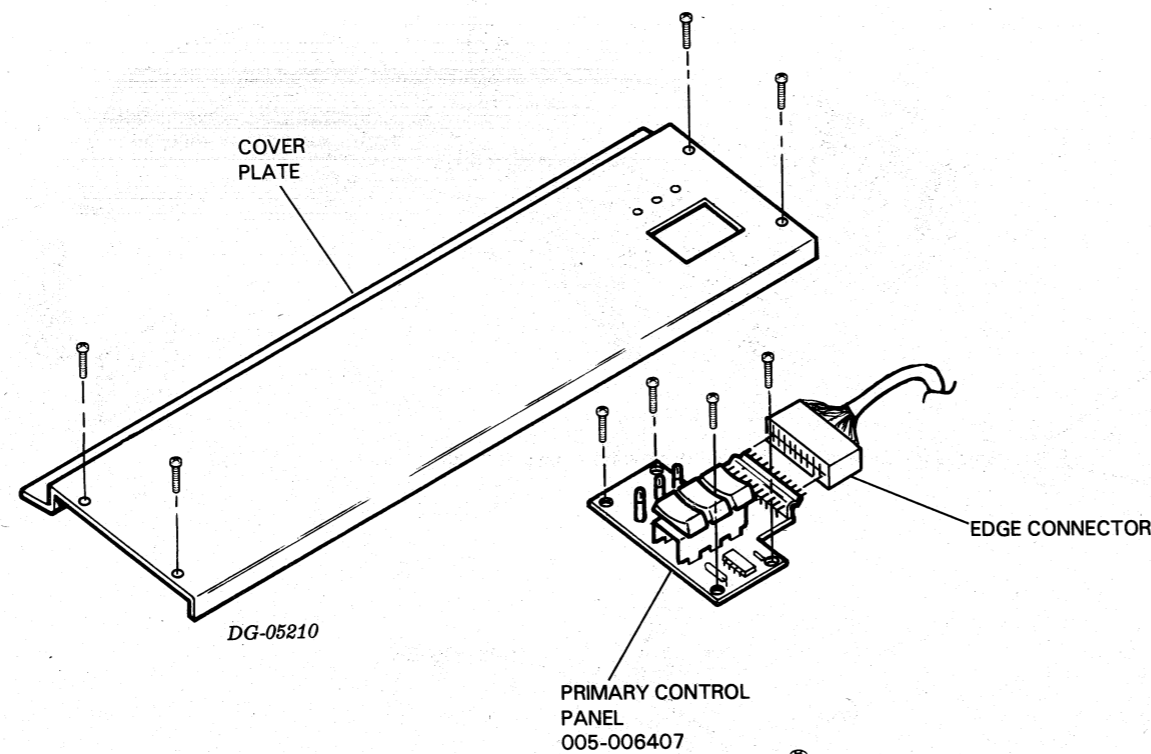


- 3 Position the new board in place and push on the retainer knobs (they will snap closed).
- 4 Reconnect all of the cables to the board. (see Internal Cabling).

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CONTROL PANELS REPLACEMENT

- 1 Remove the cover plate.
- 2 Unplug the edge connector from the board.
- 3 Remove the board. Attach the new board.
- 4 Refasten the edge connector.
- 5 Attach the cover plate.

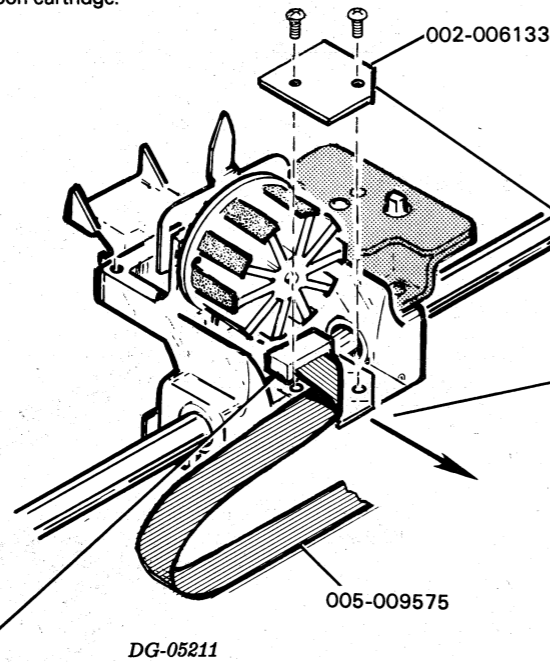


**OPTIONAL SECONDARY CONTROL PANELS		
MODEL	CHARACTERISTICS	SECONDARY CONTROL PANEL 005 -
6073 60Hz 50Hz	RECEIVE ONLY PRINTER, AUTOMATIC FORM FEED	005-010699
(S) 6073 60Hz	RECEIVE ONLY PRINTER	005-011978
6074 60Hz 50Hz	COMPRESSED PRINT RECEIVE-ONLY PRINTER, AUTOMATIC FORM FEED, PARALLEL INTERFACE	005-011991
6075 60Hz 50Hz	RECEIVE ONLY PRINTER, AUTOMATIC FORM FEED, SERIAL INTERFACE	005-011989
(S) 6075 60Hz	RECEIVE ONLY PRINTER, SERIAL INTERFACE	005-010015
6076 60Hz (S) 6076 60Hz 6076 50Hz	RECEIVE ONLY PRINTER, AUTOMATIC FORM FEED, SERIAL INTERFACE, COMPRESSED PRINT	005-009519
6077 60Hz 50Hz	KEYBOARD SEND/RECEIVE TERMINAL, AUTOMATIC FORM FEED, SERIAL INTERFACE, KEYBOARD, NUMERIC PAD	005-011989
(S) 6077 60Hz	KEYBOARD SEND/RECEIVE TERMINAL SERIAL INTERFACE	005-010015
6078 60Hz 6078 50Hz (S) 6078 60Hz	KEYBOARD SEND RECEIVE TERMINAL, AUTOMATIC FORM FEED, SERIAL INTERFACE, NUMERIC PAD, COMPRESSED PRINT	005-009519

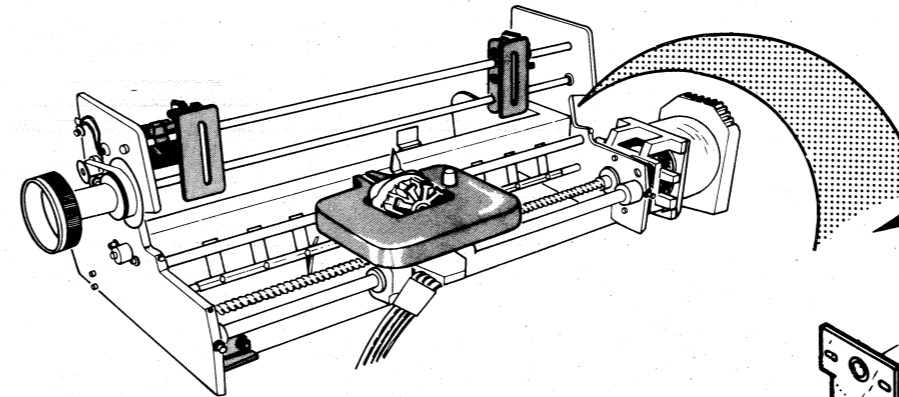
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Printhead Replacement

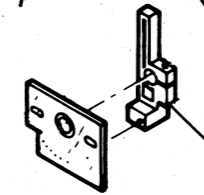
1 Open the top cover and remove the ribbon cartridge.



3 Remove the cable clamp. Unplug the cable from the printhead.



2 Rotate the platen position lever to its rear most position.

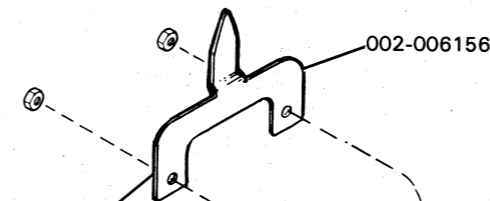


5 Secure the new printhead in place. Plug in the cable and secure it with the cable clamp. Do not pinch the cable.

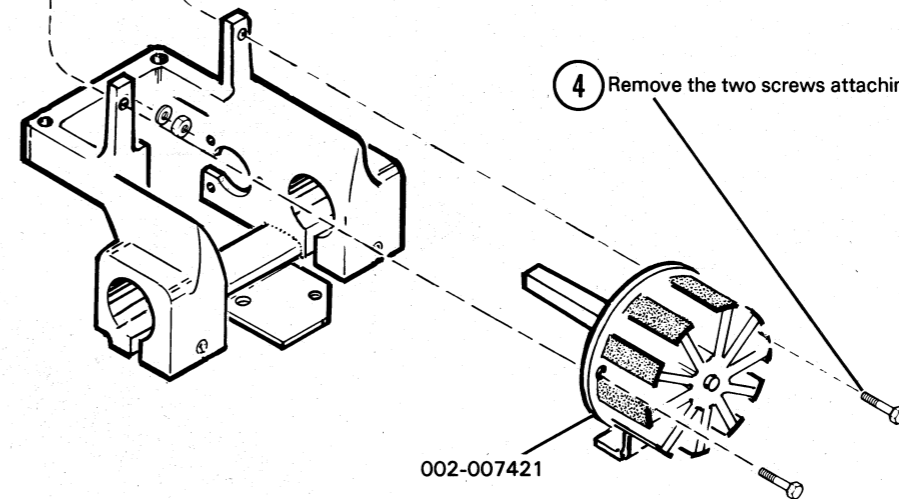
Note:
When plugging in the cable, always keep the brown wire to the left and the black wire to the right.

Note:
When fastening the printhead check that the column indicator is displaced to the right of center.

6 Adjust the spacing between the printhead and the platen (See Platen Alignment Adjustment). Replace the ribbon cartridge.

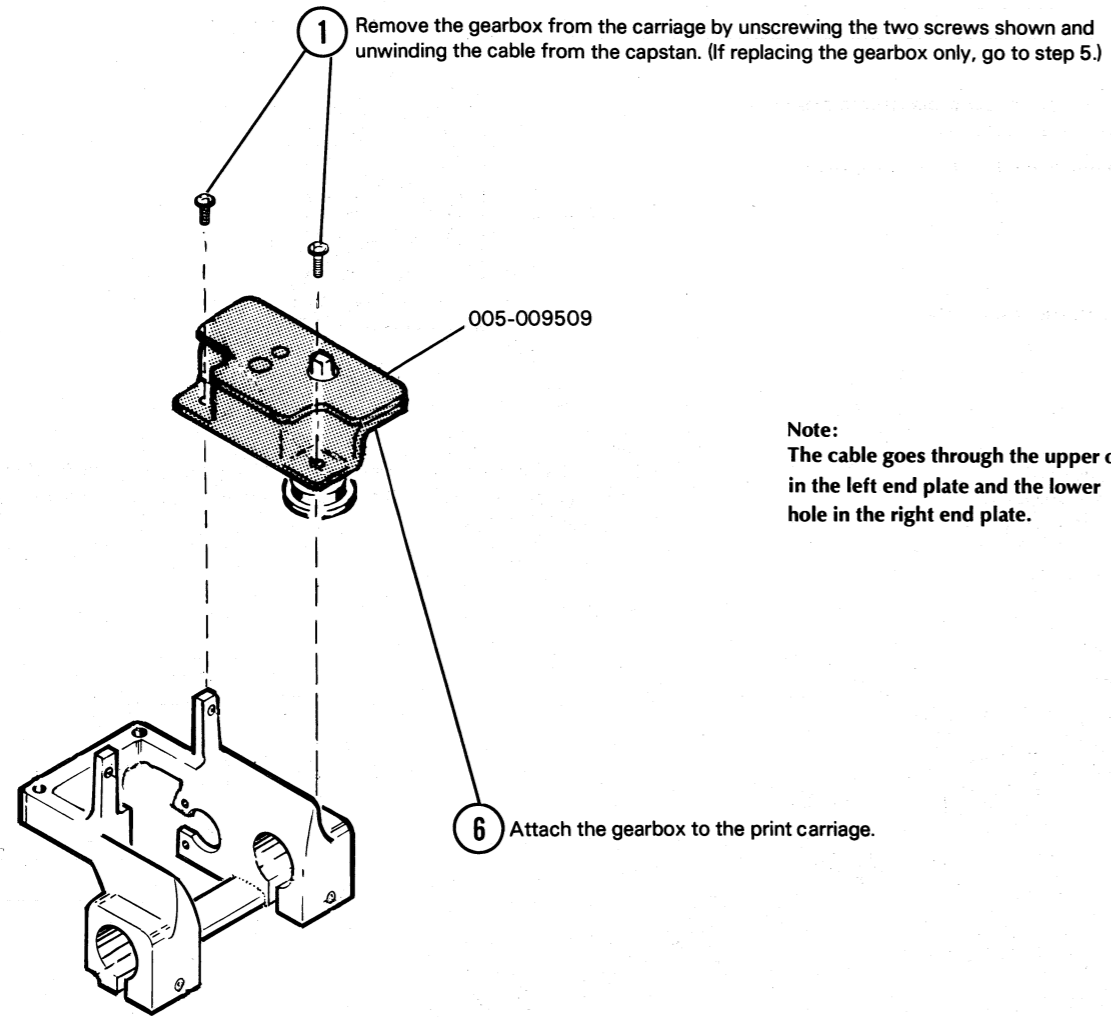


4 Remove the two screws attaching the printhead to the carriage.



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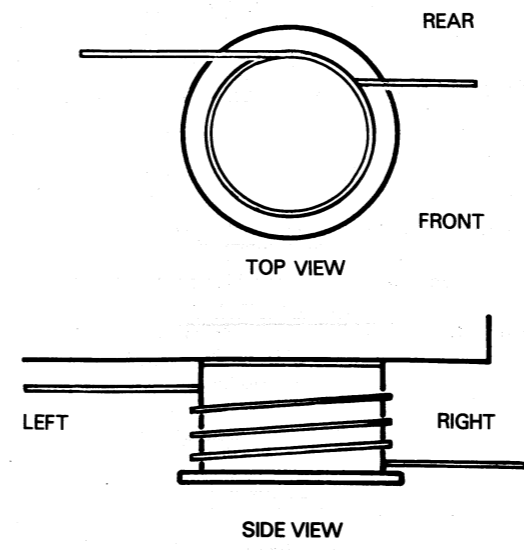
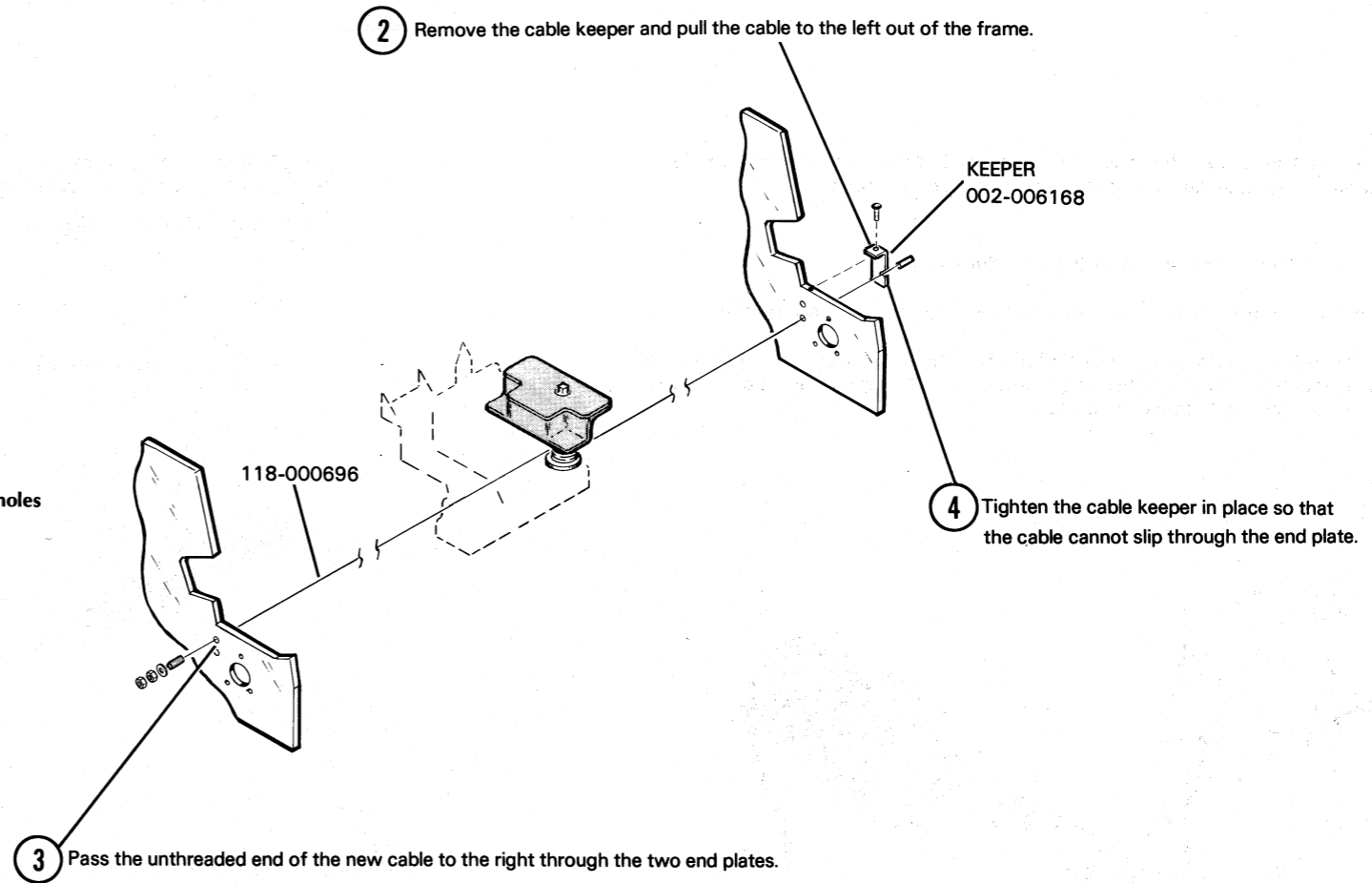
Ribbon Gearbox & Cable Replacement



Note:
 The cable goes through the upper of the two holes in the left end plate and the lower hole in the right end plate.

DG-05212

- 7 Manually move the cable back and forth a few times to ensure that the cable is not crossthreaded.
- 8 Perform the Ribbon Cartridge Drive Cable Adjustment according to the Adjustment Procedures.

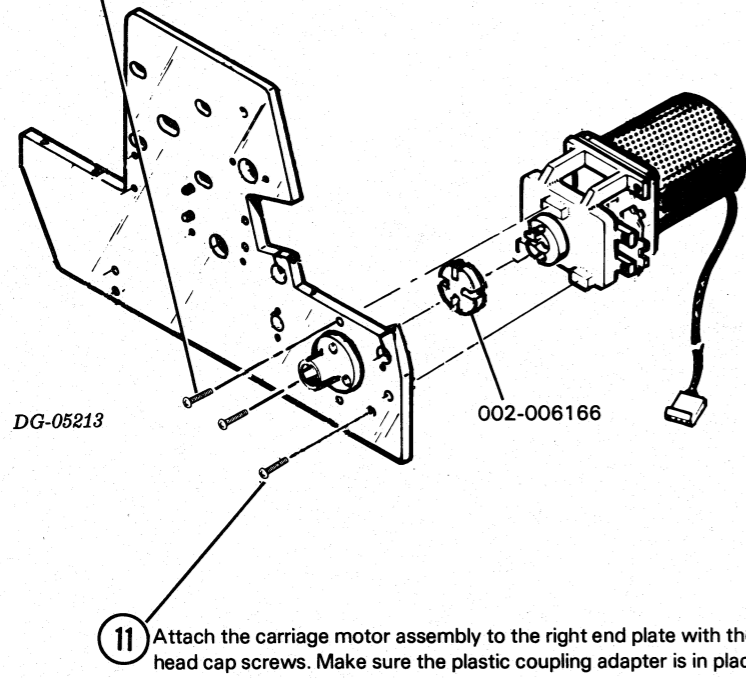


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NOTE:

The anti-backlash nut and leadscrew come in a matched set (DGC part 118-000675). To insure proper operation, you should replace them only in pairs.

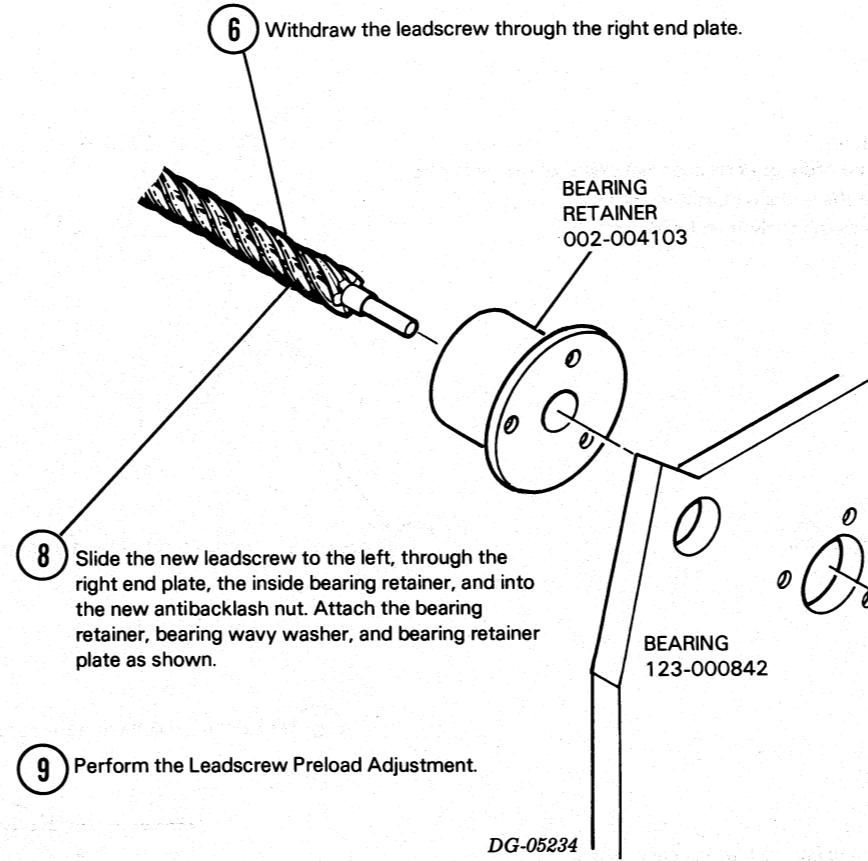
- 1 Remove the gear box (see Ribbon Gearbox Replacement).
- 2 Remove the secondary control panel cover (see Control Panel Replacement).
- 3 Remove the carriage motor assembly from the right end plate by removing the three screws securing the motor mounting bracket. Carefully place the assembly on top of the secondary control panel PC board.



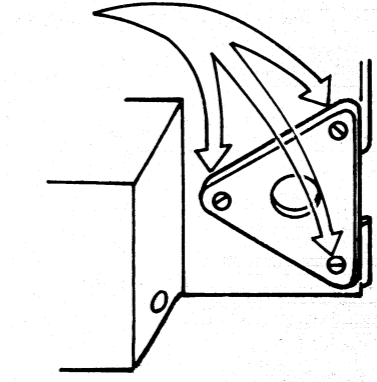
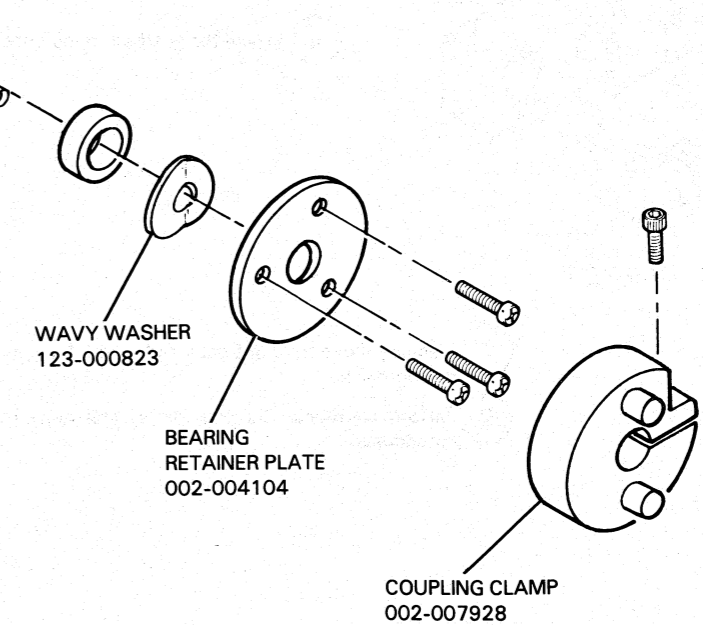
- 11 Attach the carriage motor assembly to the right end plate with the three #8 hex head cap screws. Make sure the plastic coupling adapter is in place.

- 12 Install the gearbox (see Ribbon Cartridge Gearbox Replacement).
- 13 Install the secondary control panel (see Control Panel Replacement).
- 14 Perform the Carriage Sector Disc(s) Timing Adjustments Parts I and II.

- 4 Slide the carriage all the way to the left. Loosen the coupling clamp using a 3/32 inch Allen wrench, and slide the coupling off of the leadscrew.
- 5 Remove the bearing retainer plate, being careful not to lose the wavy washer.



- 6 Withdraw the leadscrew through the right end plate.
- 8 Slide the new leadscrew to the left, through the right end plate, the inside bearing retainer, and into the new antibacklash nut. Attach the bearing retainer, bearing wavy washer, and bearing retainer plate as shown.
- 9 Perform the Leadscrew Preload Adjustment.



- 7 Unscrew the antibacklash nut from the print carriage. Affix the new antibacklash nut with the three #8 screws. Tighten these screws alternately in approximately 1/8 turn increments.

- 10 Refasten the carriage motor coupling so that its face is flush with the end of the leadscrew. Tighten clamp screw from 80 to 120 in. ozs. (5 to 7.5 in. lbs.).

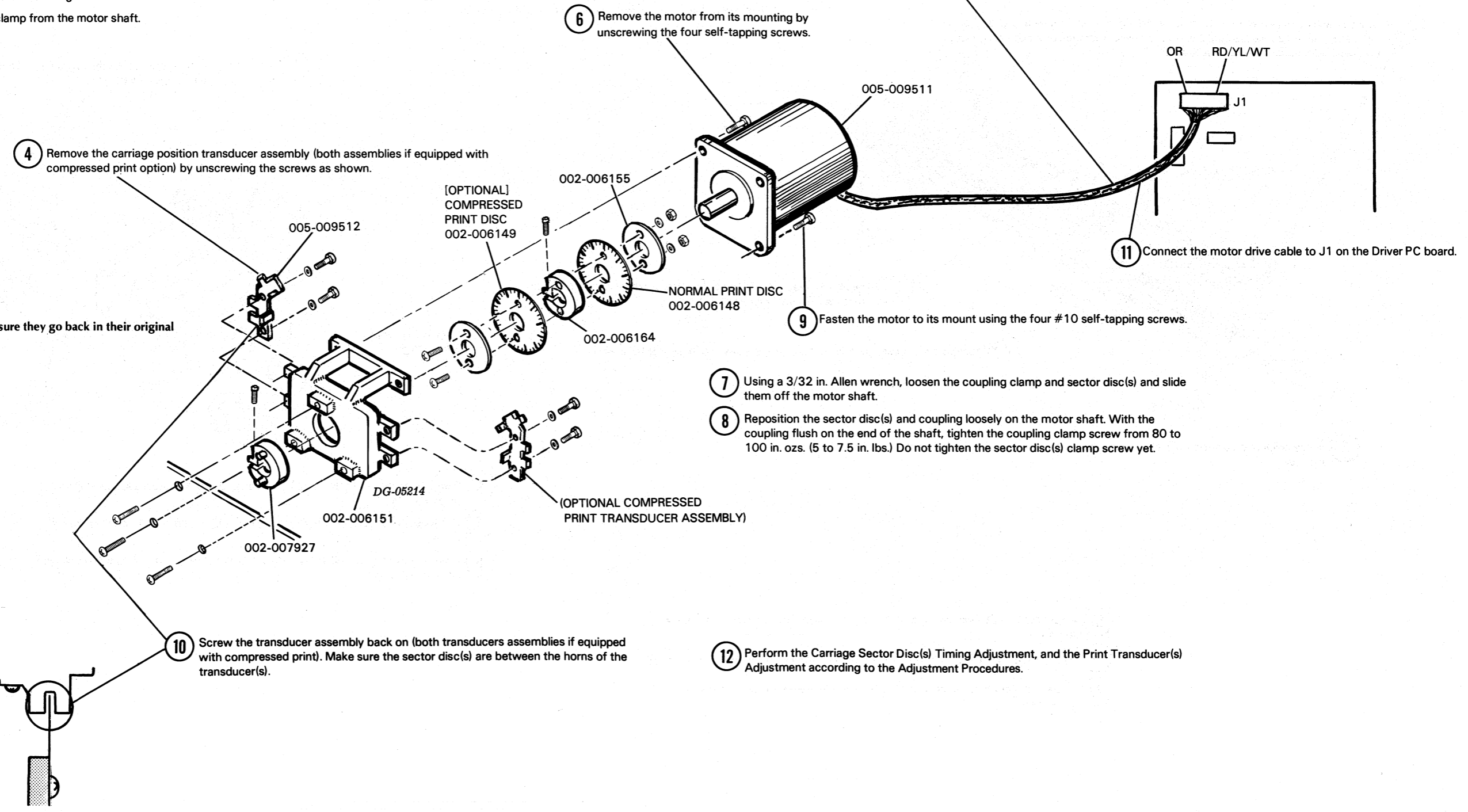
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Carriage Motor and Sector Disc(s) Replacement

- 1 Remove the secondary control panel cover.
- 2 Remove the carriage motor assembly from the right end plate by removing the three screws securing the motor mounting bracket.
- 3 Remove the coupling clamp from the motor shaft.

- CAUTION -
 The sector disc is very fragile. Carefully support the motor when removing the last screws, and be sure not to bend the sector disc when removing the motor from its mount.

- 5 Unplug the motor drive cable from connector J1 on the Driver PC board. Cut any ties securing the cable.



- 4 Remove the carriage position transducer assembly (both assemblies if equipped with compressed print option) by unscrewing the screws as shown.

- 6 Remove the motor from its mounting by unscrewing the four self-tapping screws.

- 9 Fasten the motor to its mount using the four #10 self-tapping screws.

- 11 Connect the motor drive cable to J1 on the Driver PC board.

Note:
 If there are two transducer assemblies, make sure they go back in their original positions.

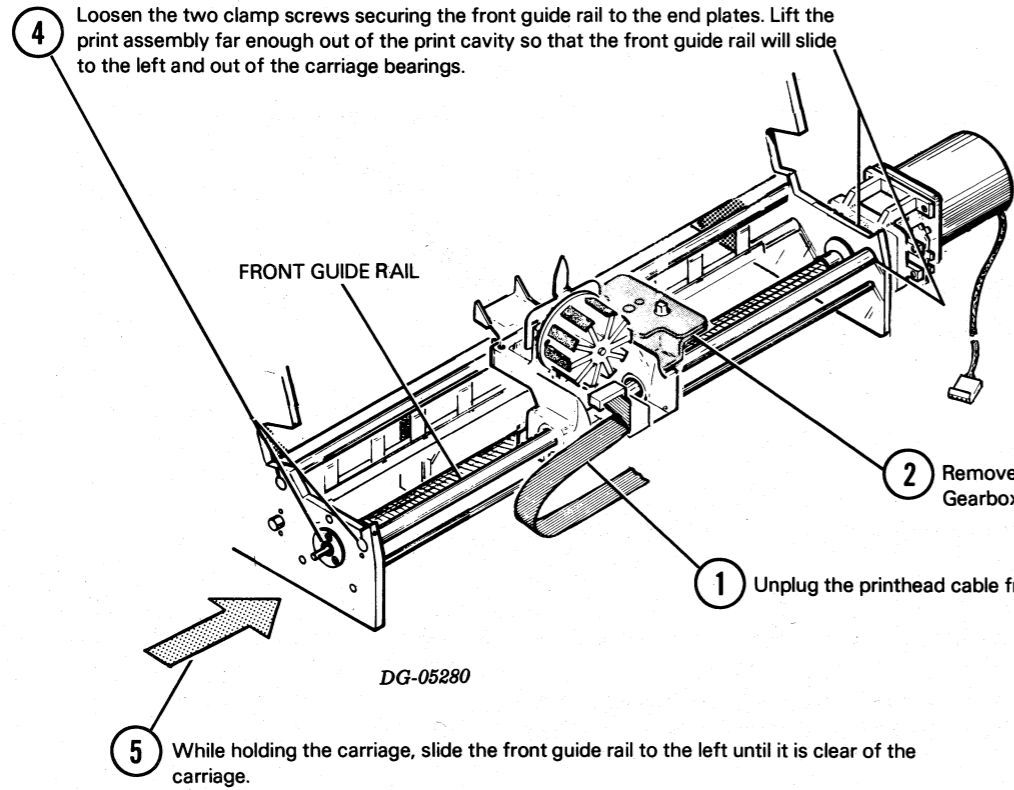
- 7 Using a 3/32 in. Allen wrench, loosen the coupling clamp and sector disc(s) and slide them off the motor shaft.
- 8 Reposition the sector disc(s) and coupling loosely on the motor shaft. With the coupling flush on the end of the shaft, tighten the coupling clamp screw from 80 to 100 in. ozs. (5 to 7.5 in. lbs.) Do not tighten the sector disc(s) clamp screw yet.

- 10 Screw the transducer assembly back on (both transducers assemblies if equipped with compressed print). Make sure the sector disc(s) are between the horns of the transducer(s).

- 12 Perform the Carriage Sector Disc(s) Timing Adjustment, and the Print Transducer(s) Adjustment according to the Adjustment Procedures.

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4 Loosen the two clamp screws securing the front guide rail to the end plates. Lift the print assembly far enough out of the print cavity so that the front guide rail will slide to the left and out of the carriage bearings.

2 Remove the ribbon cartridge gearbox from the carriage (see Ribbon Cartridge Gearbox and Drive Cable Replacement).

1 Unplug the printhead cable from the printhead (see Printhead Replacement).

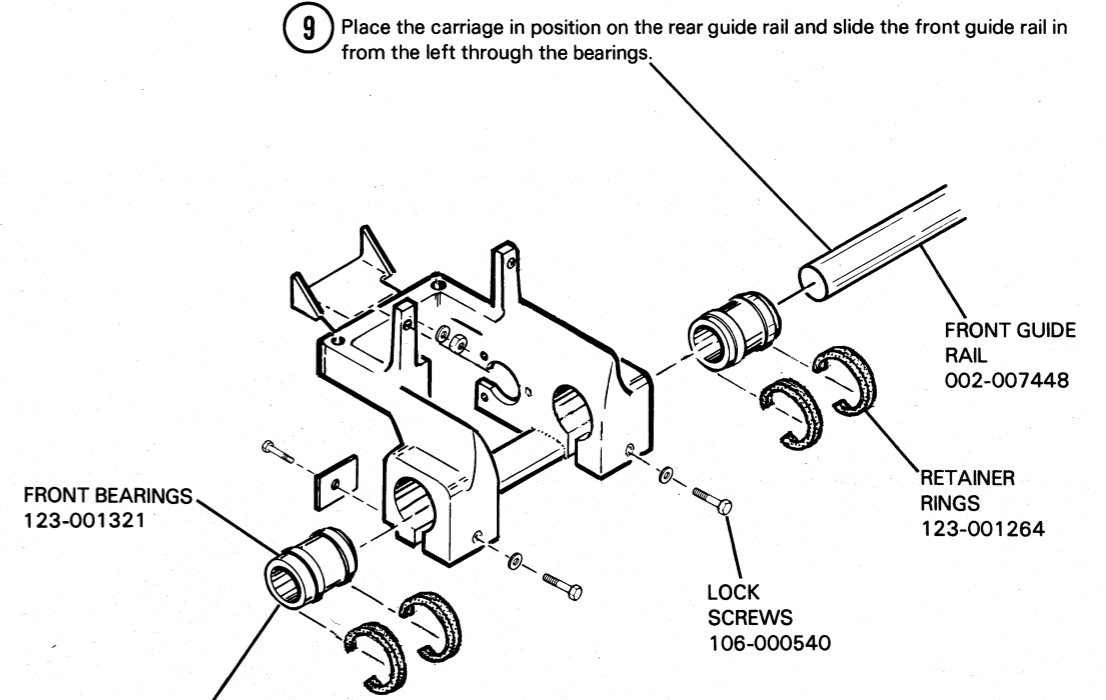
5 While holding the carriage, slide the front guide rail to the left until it is clear of the carriage.

3 Remove the secondary control panel cover. Remove the four bolts securing the main print assembly to the shock mounts in the bottom of the print cavity.

10 Adjust the two carriage bearings as described in Carriage Bearings Cleaning and Adjustment.

11 Replace the gearbox (see Ribbon Cartridge Gearbox and Cable Drive Replacement).

12 Replace the printhead cable (see Printhead Replacement) and secondary control panel cover.



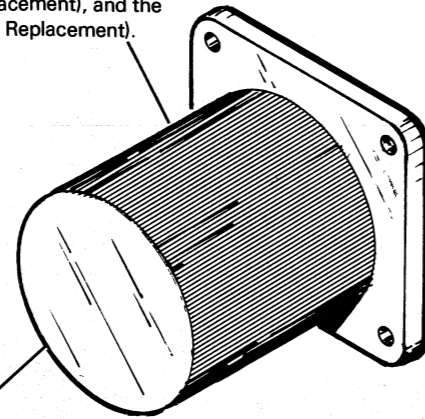
6 Remove the two front bearings by loosening the lock screws and unsnapping the retainer rings.

7 Secure the new front bearings in the carriage by snapping their retainer rings in place.

8 Clean the front guide rail and grease the bearings (see Carriage Bearings Cleaning and Adjustment).

9 Place the carriage in position on the rear guide rail and slide the front guide rail in from the left through the bearings.

1 Remove the paper feed motor (see Paper Feed Motor Replacement), and the secondary control panel (See Control Panels and Keyboard Replacement).



2 Remove the two guide bars located above the platen slides, inside each end plate.

3 Rotate platen adjust lever until the set screws are visible through the holes in platen slides. Loosen each screw so that the cams can slide on the shaft.

4 Unscrew the clamp of the platen adjust lever and slide the lever off the shaft.

12 Reclamp the platen adjust lever on to the shaft.

13 Install the paper feed motor (see Paper Feed Motor Replacement).

14 Perform the Platen Alignment Adjustment according to the Adjustment Procedures.

6 Lift the platen up and back, out of the frame. Move the transducer mounting bar to the new platen. Move the platen slides to the new platen.

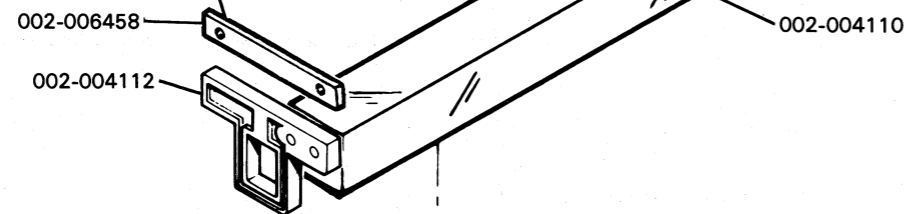
5 Withdraw the shaft from the right-hand end plate.

7 Let the platen back down into the frame, until the platen slides rest on the locating dowels.

8 Place the adjusting cams into the platen slides with their set screws up.

Note:
 When fastening the guide bars be sure the platen slides smoothly, and has no vertical play.

11 Attach the guide bars on top of the platen slides.



Note:
 Be carefull not to damage the Out of Paper Transducer when replacing the platen in the frame.

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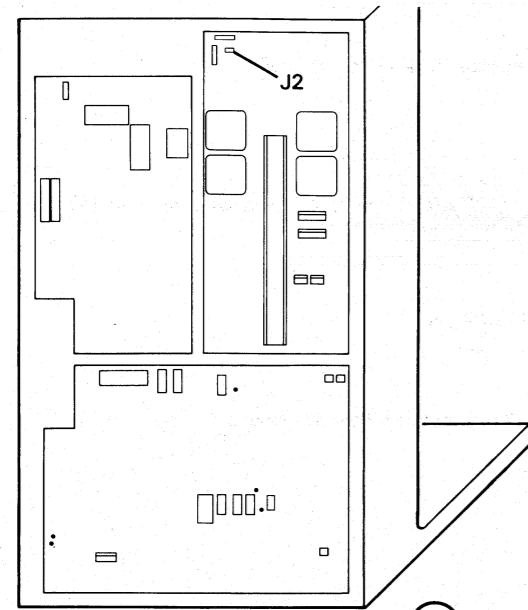
9 With the flat surfaces up, slide the shaft in to the left, holding the cams in position while the shaft passes through.

10 Align the flat of the shaft with the set screw of each cam and tighten the screws.

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Paper Feed Motor and Belt Replacement

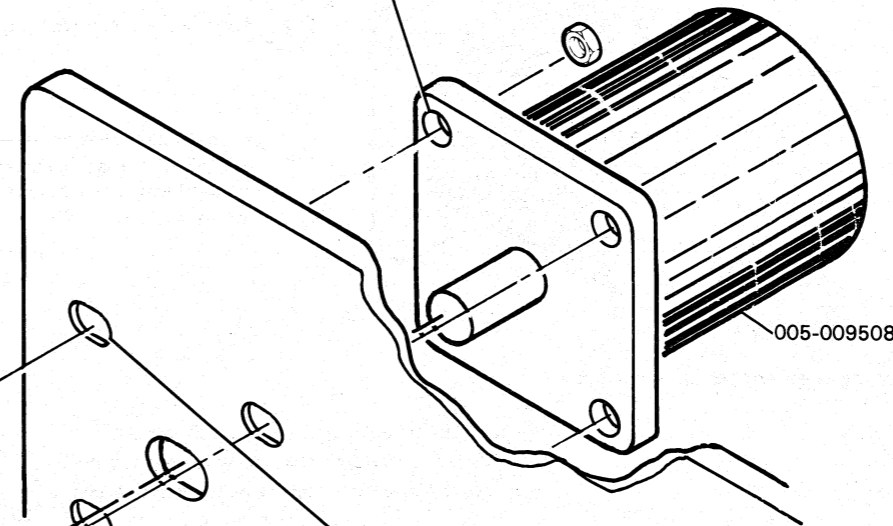
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3 Remove the vertical transducer and bracket by unscrewing its two mounting bolts.

5 Remove the two remaining bolts securing the motor. Pull the motor out from the end plate and lay it down in the printer frame. Unplug the control cable from J 2 on the driver board.

1 Loosen the four motor mounting bolts and slide the motor forward.



4 Loosen the clamp screw of the drive pulley and slide the pulley off the motor shaft.

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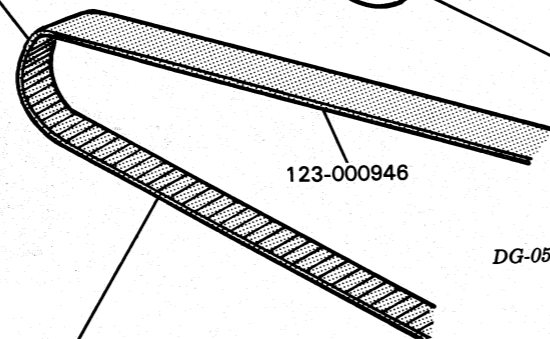
6 Loosely install the new motor using only the two rear bolts.

2 Remove the drive belt.

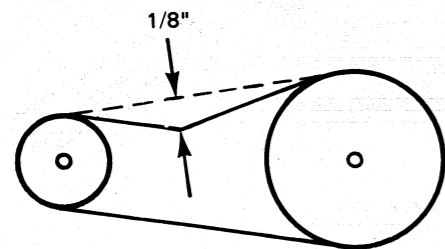
002-006551

9 Install the vertical transducer and mounting bracket. Perform the Vertical Transducer Adjustment.

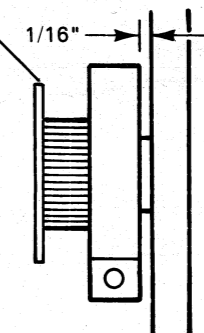
Note:
 After installing the transducer, check to be sure all four motor mounting bolts are tight.



7 Install the drive pulley on the motor shaft so there is 1/16 in. clearance with the end plate.

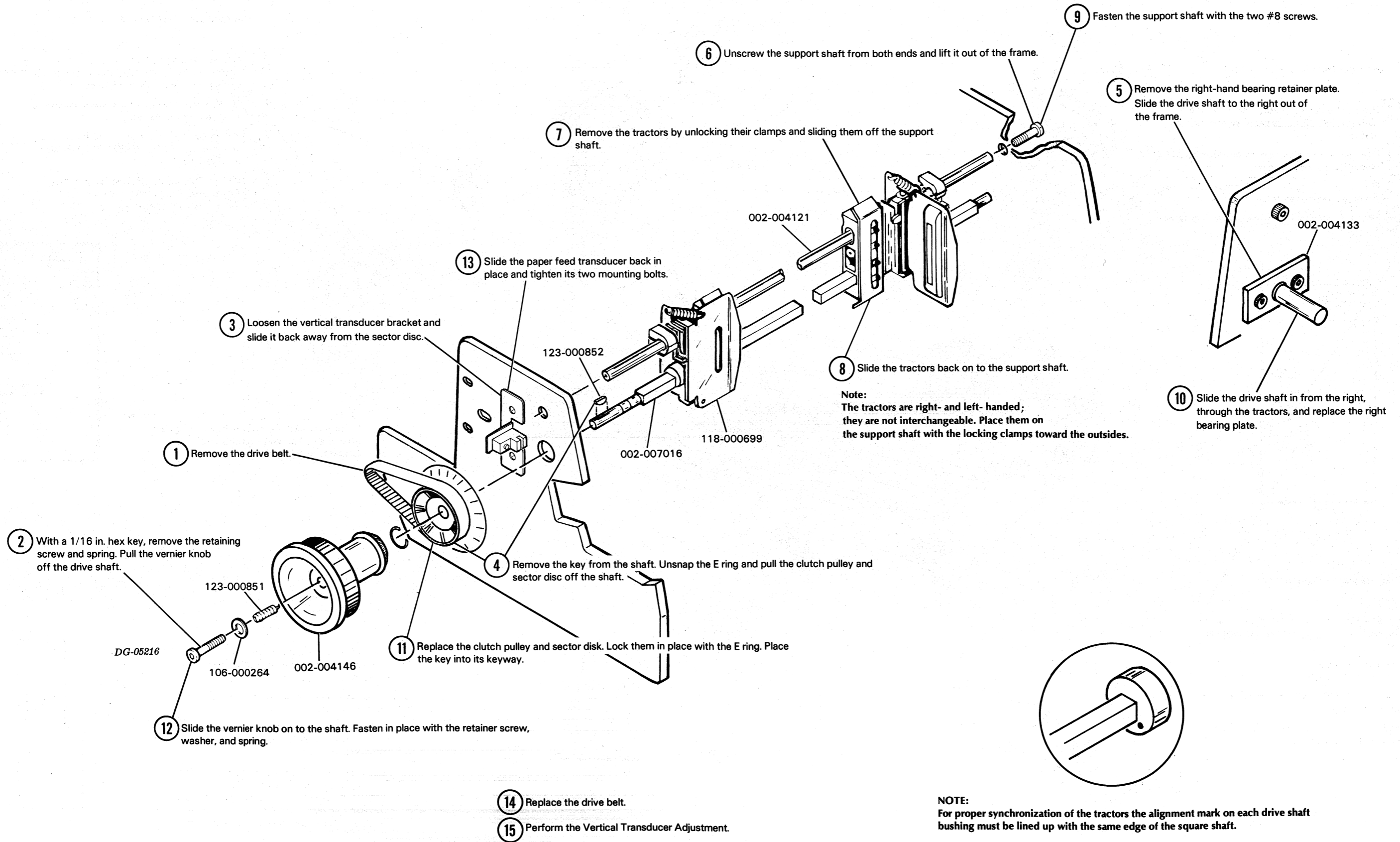


8 Replace the drive belt on its pulleys. Slide the motor back until the belt deflects only 1/8 in. when pressed down with a force of 1 pound. Tighten the motors two rear mounting bolts.



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Paper Feed Drive Mechanism Replacement



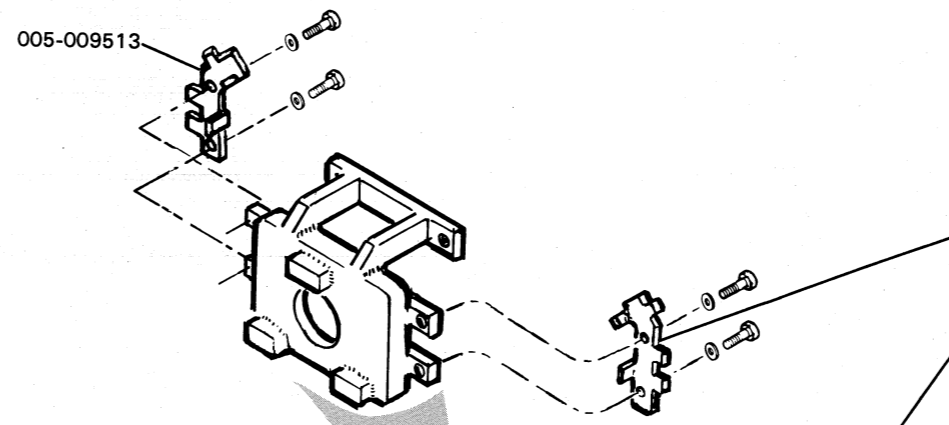
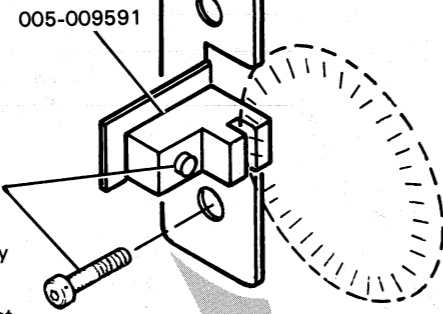
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Transducers Replacement

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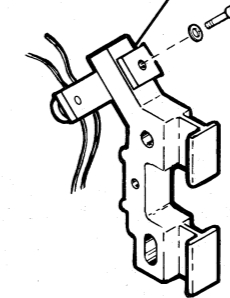
Paper Feed Transducer Replacement

- 1 Unplug the cable connector from J7 on the Driver PC Board and cut any ties securing the cable.
- 2 Remove the transducer from its mounting and install the new transducer.
- 3 Reconnect the cable to J7 and tie it down away from any moving parts.
- 4 Perform the Paper Feed Transducer Adjustment.

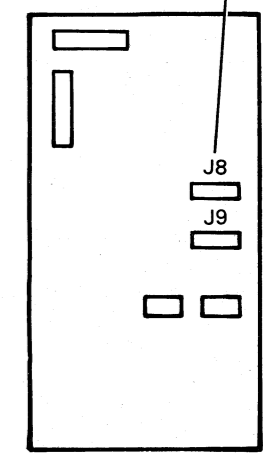


Print Transducer Replacement

- 1 Unplug connector J9 on the Driver PC Board (the Compressed Print transducer cables go to J8) and cut any ties securing the cable.
- 2 Remove the transducer from its mounting and install the new transducer.
- 3 Reconnect the cable to J9 (or J8 for compressed) and tie it down away from any moving parts.
- 4 Perform the Carriage Sector Disc(s) Timing Adjustment: Parts I and II and the Print Transducer(s) Adjustment.

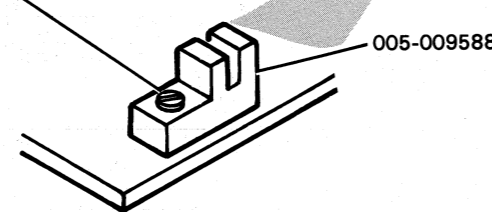


NOTE:
 If equipped with the compressed print option there is an extra pair of transducers. Center transducers on the code discs.



Home Flag Transducer Replacement

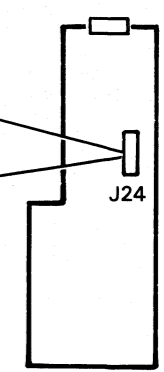
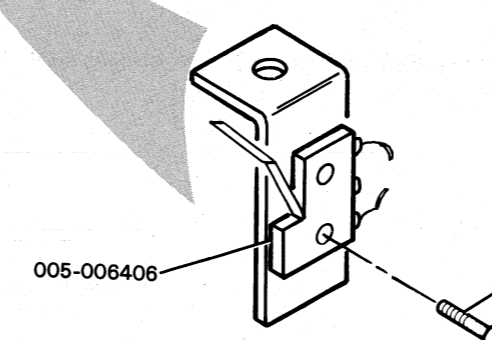
- 1 Unplug the cable connector from J6 on the Driver PC Board and cut any ties securing the cable.
- 2 Remove the transducer from its mounting and install a new transducer.
- 3 Reconnect the cable to J6 and tie it down away from any moving parts.
- 4 Perform the Carriage Sector Disc(s) Timing Adjustment: Parts I and II.



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Out of Paper Switch Adjustment

- 1 Unplug the cable connector from J24 on the secondary control panel and cut any ties securing the cable.
- 2 Remove the switch from its mounting and install the new switch.
- 3 Reconnect the cable to J24 on the secondary control panel and tie it down away from any moving parts.
- 4 Load paper, power up the printer and see if the Fault Light goes on (it should remain off). Remove the paper with the power on and see if the Fault light comes on (it should). Bend the arm of the switch slightly until it operates properly.

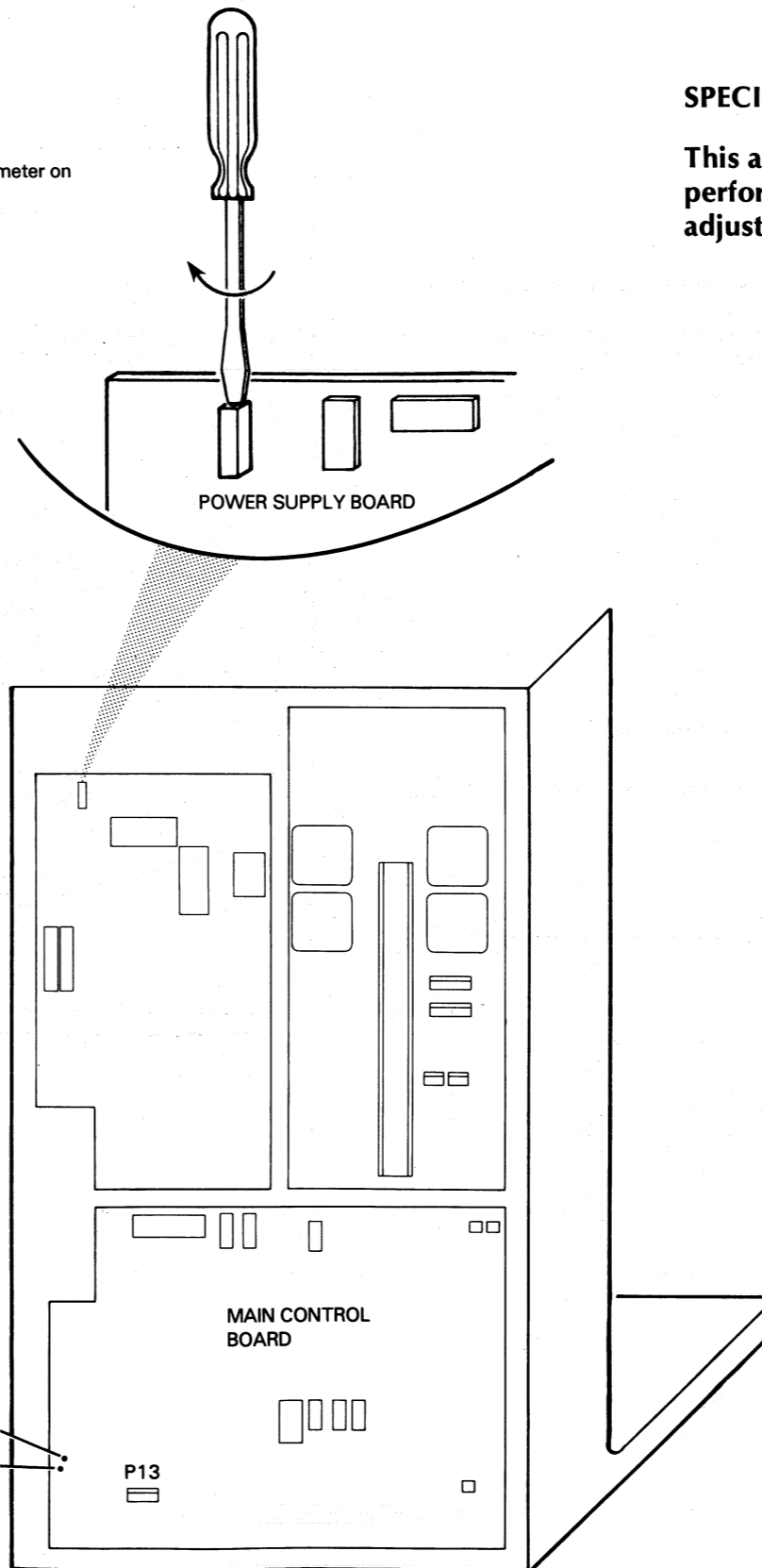


TOOLS REQUIRED:
 accurate volt meter

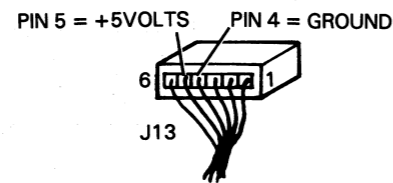
- Turn on the printer. Without the printer printing, adjust the 10-turn potentiometer on the power supply board until the volt meter reads +5.1 volts + 0.1 volts.

SPECIAL NOTES:

This adjustment should be performed before any other adjustment.



PIN	SIGNAL
1	-12V
2	-5V
3	POWER OK
4	GND
5	+5V
6	+14V



- Attach the positive lead of the volt meter to TP3 (or pin 5 of J13). Attach the negative lead to TP4 (or pin 4 of J13).

TP4=GND
 TP3=+5VOLTS

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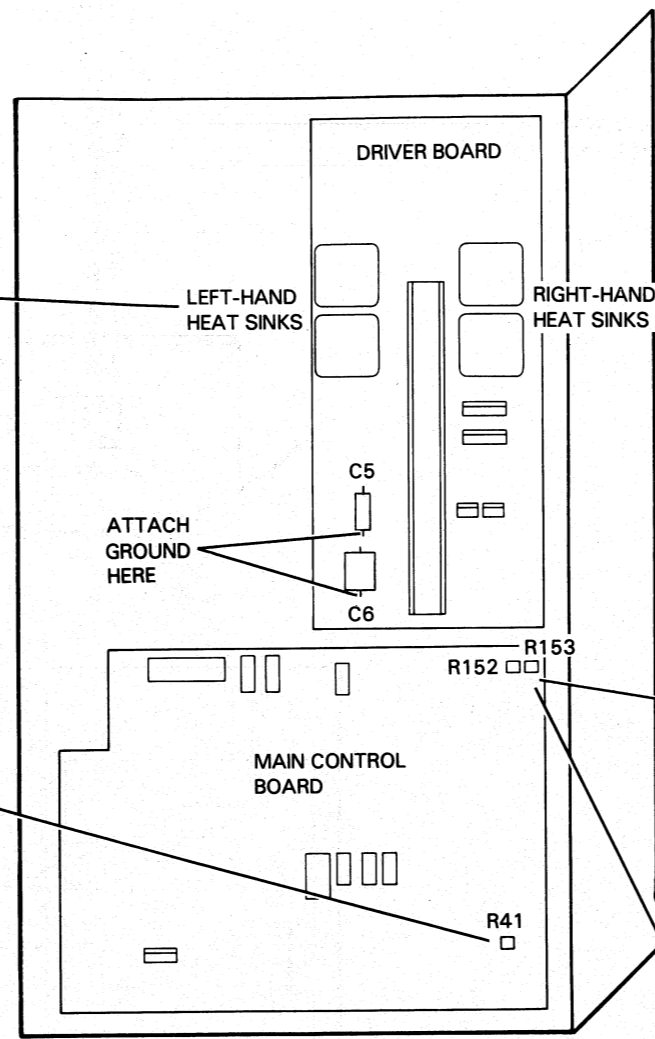
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1 Set up your oscilloscope as follows: - positive edge trigger - .2 ms/div. - 50 volts/div.

2 Attach the probe to either of the two left-hand heatsink on the driver board. Attach the ground clip to the negative lead of either capacitor C5 or C6.

3 While offline, press the TEST/ESC DISABLE switch towards TEST and place the printer on line.

4 Adjust R41 on the main control board so that the distance from rising edge to rising edge of the trace shown below is 1.85ms.

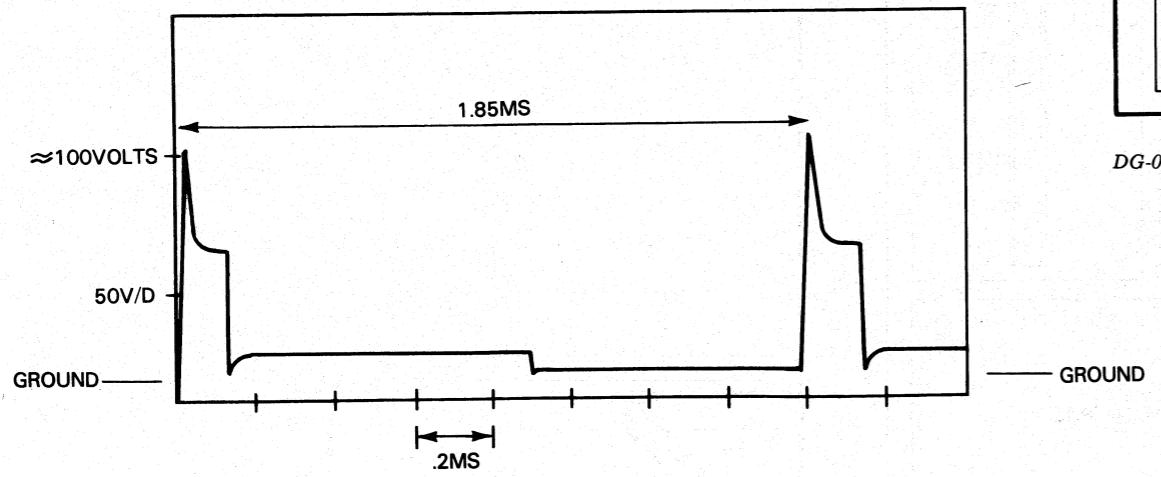


5 Change the oscilloscope to a time base of 20μs/div.

6 Adjust R152 until the distance from the primary peak in the signal to the falling edge as shown below is 100μs.

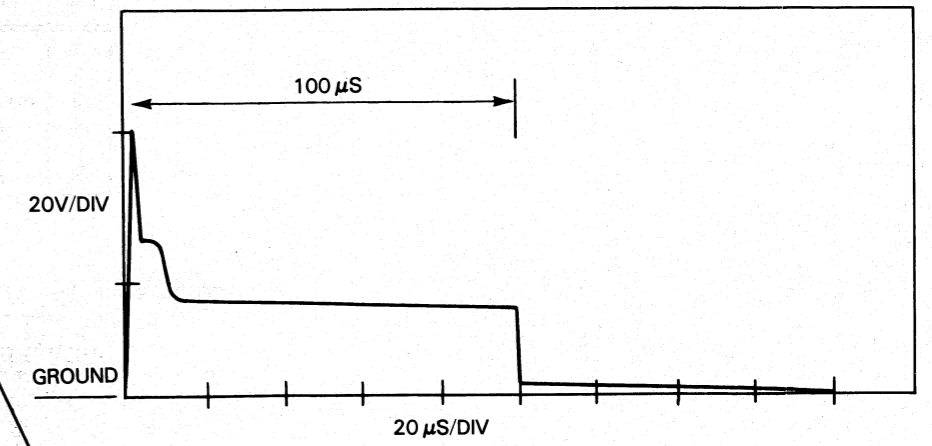
7 Place the oscilloscope probe on either of the right-hand heatsinks on the driver board and adjust R153 in the same manor.

8 Depress the MST RST switch to terminate self-test.



DG-05219

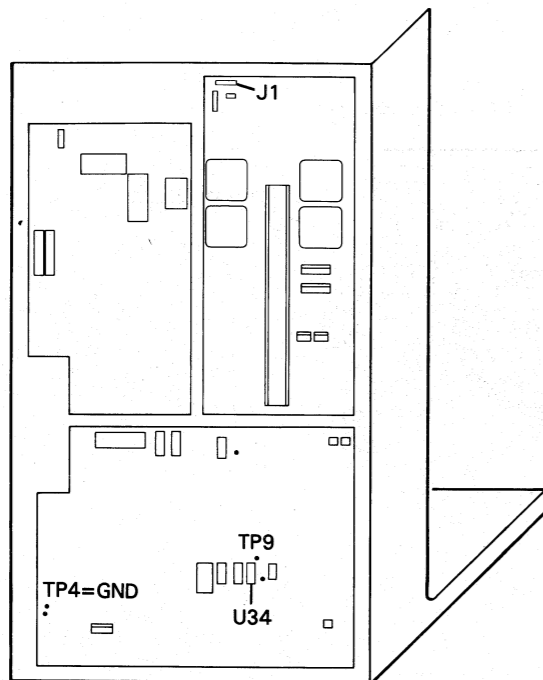
DG-05218



Carriage Sector Disc(s) Timing Adjustment, Part I

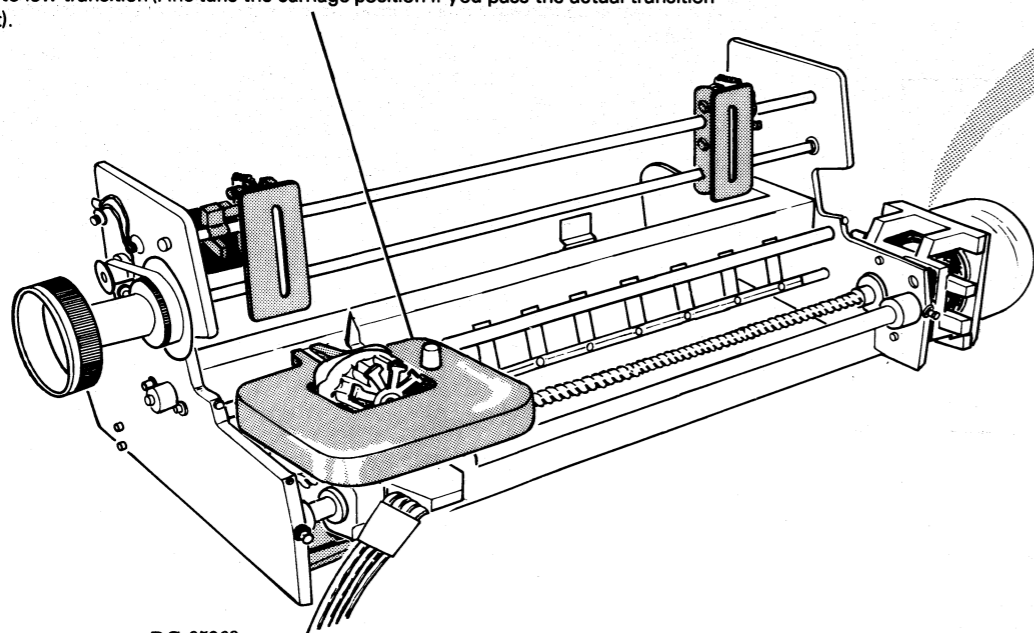
PART I - ROUGH ADJUSTMENT

- 1 Turn off the printer. Remove the side cover exposing the main control board, power supply, and driver board. Disconnect J1 on the driver PC board.
- 2 Connect the oscilloscope probe to TP9 (or pin 14 of U34) on the main control board. Connect the ground clip to TP4 (or pin 8 of U34).



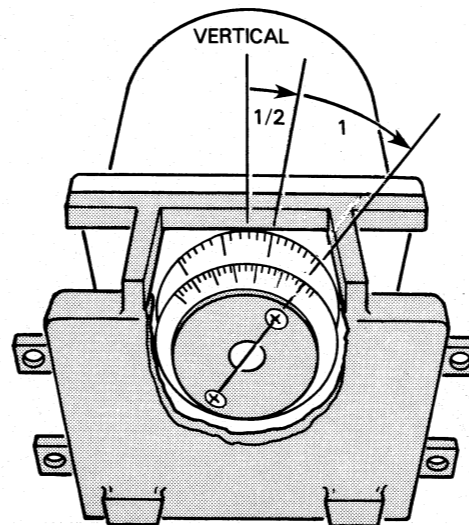
DG-05218

- 3 Turn on the printer. Move the print carriage to within a few inches of the left margin. Now, slowly move the carriage to the left until the signal on the oscilloscope makes a high to low transition (Fine tune the carriage position if you pass the actual transition point).



DG-05263

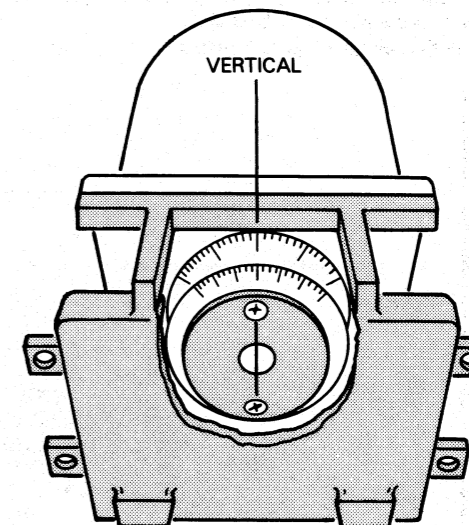
- 4 The timing disc nearest the motor (if there are two) should be positioned as illustrated below. If the position is correct, proceed to PART II.



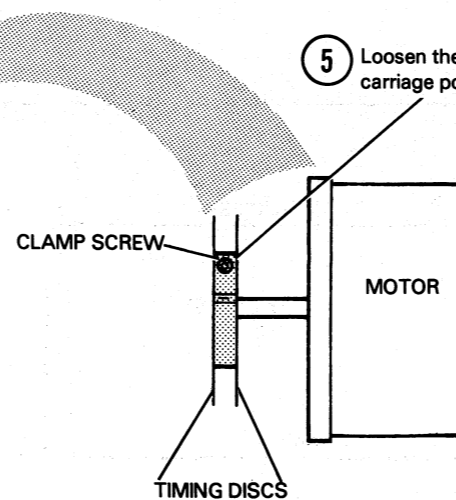
DG-05220

- 7 Rotate the disc(s) clockwise 1 and 1/2 of the divisions marked out by the long slits. If two discs are installed, the divisions on the disc nearest the motor should be used.

- 6 Without moving the carriage, rotate the timing disc(s) on the motor shaft until the two screws securing the disc(s) to the motor-shaft clamp line up vertically.



- 5 Loosen the screw which secures the timing disc(s) to the motor shaft. Reposition the carriage position as described in step 3.

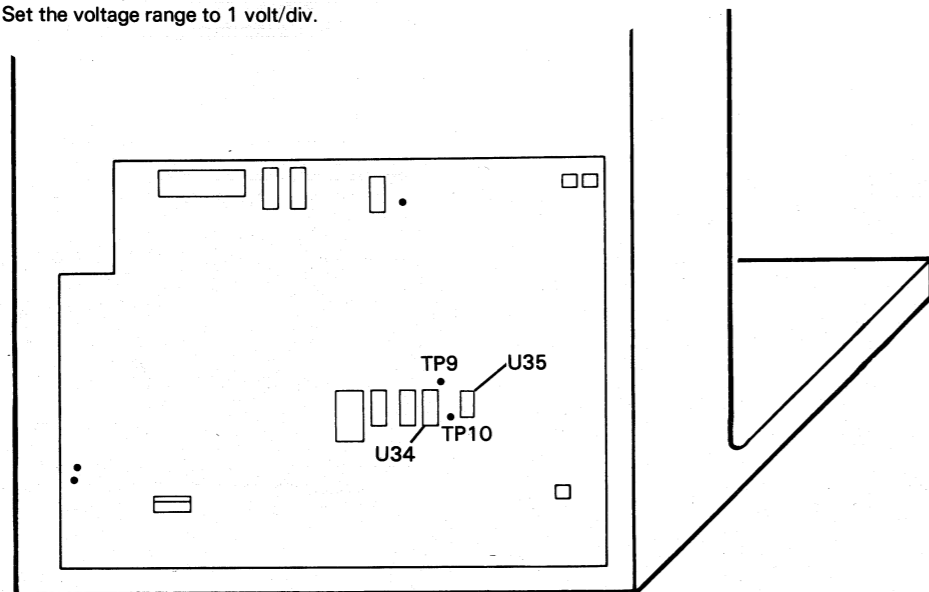


- 8 Make sure the sector disc(s) are not touching the sides of any of the transducers. Tighten the clamp screw which secures the disc(s) to the motor shaft. Turn off the printer and reconnect the carriage motor control cable to J1 on the driver PC board.

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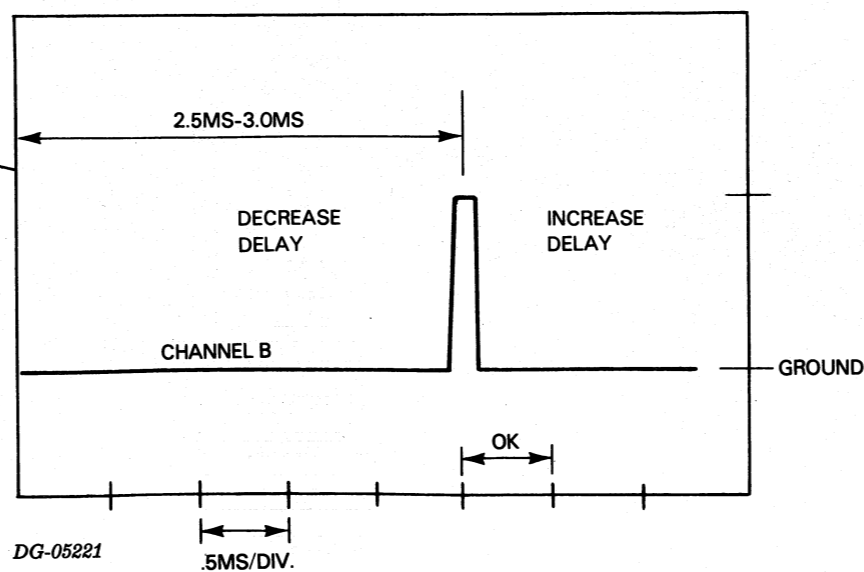
PART II - FINE ADJUSTMENT

- 1 Set up your oscilloscope as follows: Attach channel A of the oscilloscope to TP9 (or pin 14 of U34, HOME). Trigger on a negative edge. Attach channel B to TP10 (or pin 9 of U35, START CHAR). Set the sweep rate to .5ms/div. Set the voltage range to 1 volt/div.



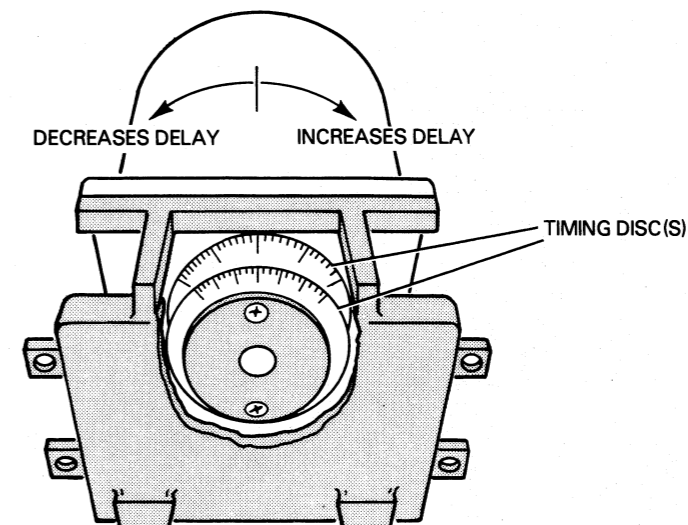
DG-05218

- 2 Turn on the printer. Place the NORM/COMP switch in the NORM position. While offline, press the TEST/ESC DISABLE switch towards TEST and place the printer online.
- 3 The oscilloscope should show this trace. (If your probe is attached to TP10, this trace will be inverted.)



DG-05221

- 4 TO ADJUST: Press the MST RST pushbutton. Loosen the timing disc(s) clamp screw. Rotate the disc(s) assembly in the proper direction as illustrated. Tighten the clamp screw.



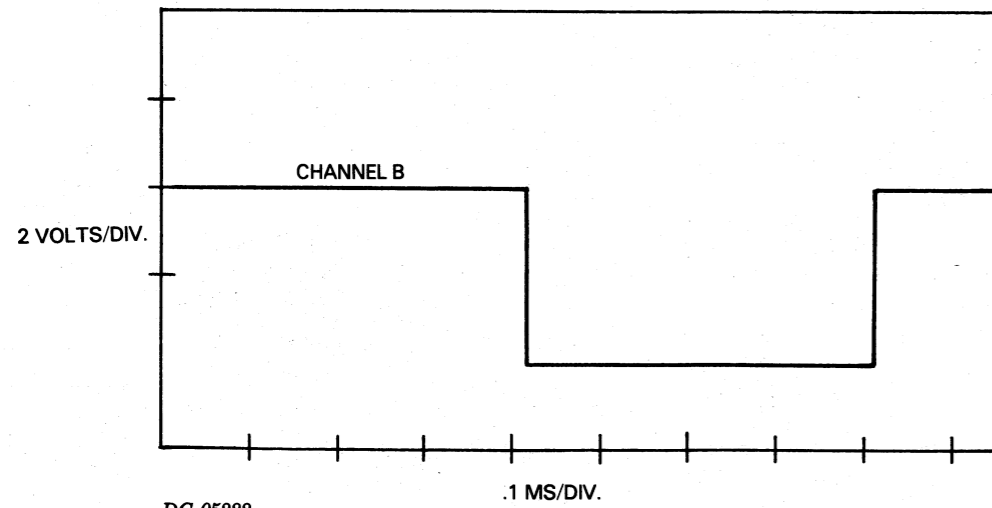
DG-05220

- 5 Proceed to step 2 to check the adjustment.
- 6 If a compressed disk is installed, compare the oscilloscope trace in normal mode with that in compressed mode and adjust the disks until both traces are about the same.

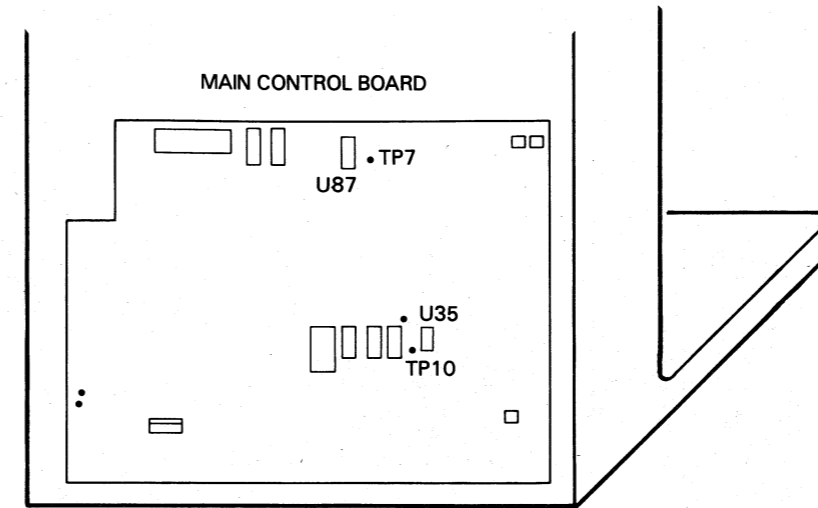
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- 1 Set up your oscilloscope as follows: Attach channel A of the oscilloscope to TP10 (or pin 8 of U35, START CHAR). Trigger on a negative edge. Set channel A to .2v/div. Attach channel B to TP7 (or pin 9 of U87, PRINT TIME). Set channel B to 2 volts/div. Set the sweep rate to .1mSec/div. Place the NORM/COMP switch in the NORM position.
- 2 While offline, press the TEST/ESC DISABLE switch towards TEST and place the printer online.
- 3 The trace should appear in the same place regardless of which direction the printhead is traveling. If the transducer is out of adjustment, the trace will move to the left or right each time the printhead changes direction.
- 4 TO ADJUST: Press the MST RST pushbutton. Loosen the screw securing the normal print transducer (the upper transducer towards the back of the printer) to the motor mount and move the it up or down. Tighten the screw.

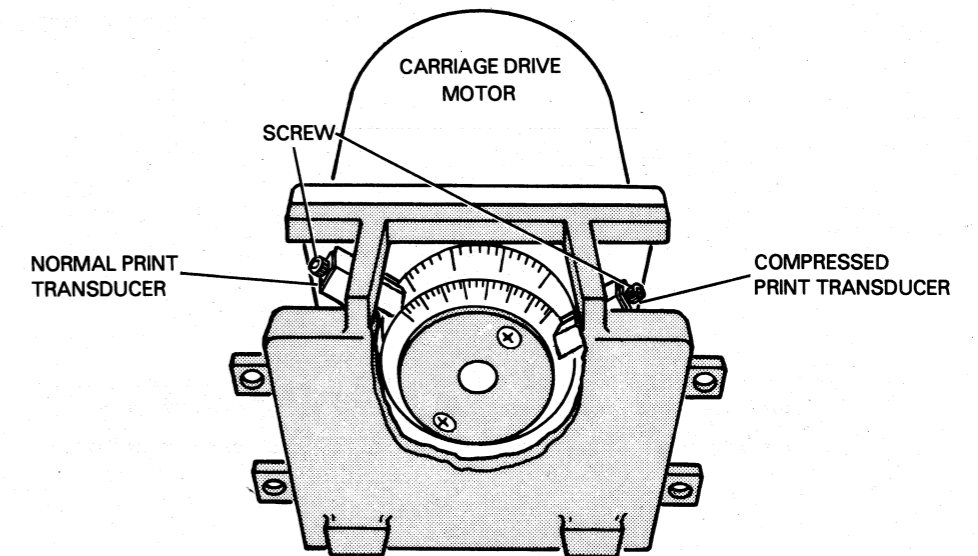
CAUTION:
 Make sure you do not cock the transducer; keep it lined up with the disk.



DG-05222



DG-05218



DG-05220

- 5 Repeat step 2.
- 6 IF THE COMPRESSED PRINT OPTION IS INSTALLED: Press the MST RST pushbutton. Place the NORM/COMP switch in the COMP position.
- 7 Proceed to step 2 but this time adjust the compressed print transducer (if necessary). (The compressed print transducer is the upper transducer towards the front of the printer).
- 8 Press MST RST to exit from the self test program.

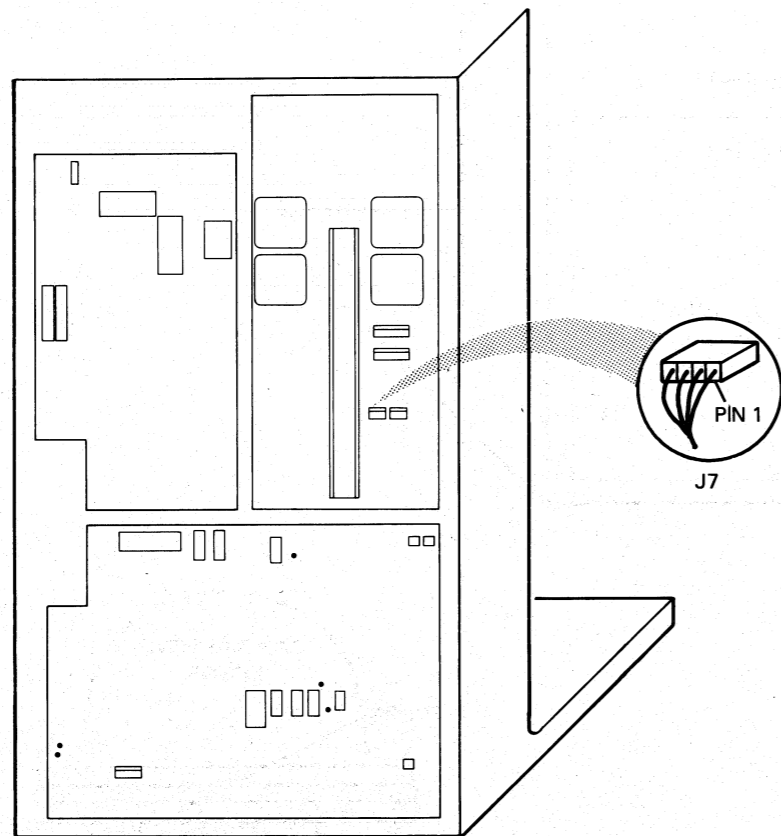
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Engineering Data Sheets: DASHER LP2 PRINTERS

SERIES 6073, 6074, S6073

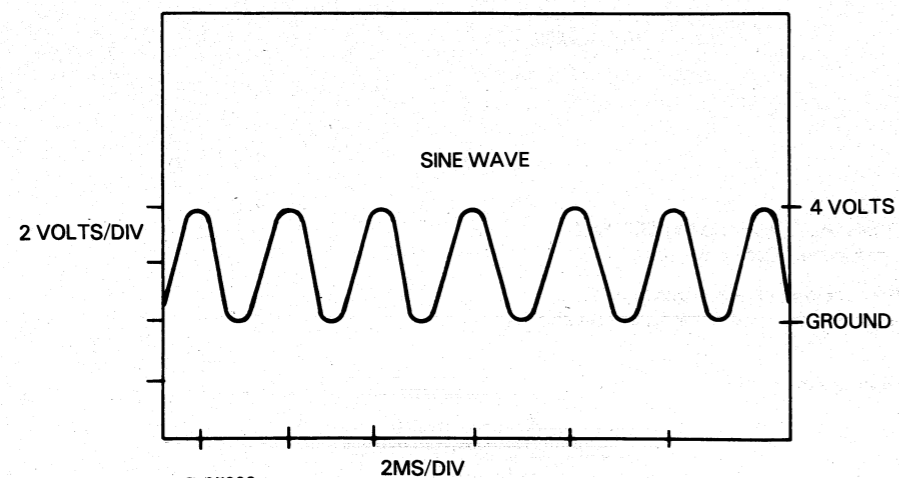
Vertical Transducer Adjustment

- 1 Attach channel A of your oscilloscope probe to J7 pin 1 (the blue wire) on the driver board. Set channel A's voltage range to 2 volts/div. Set the sweep rate to 2ms/div.



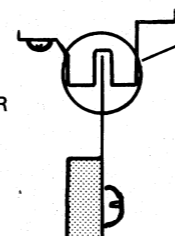
DG-05218

- 2 Remove any paper from the tractors; however, leave the paper in the printer so that the Out of Forms switch does not cause a fault condition. Turn on the printer.
- 3 Press the form feed switch. You should see the following trace on the oscilloscope.



DG-05223

TRANSDUCER MOUNTING BOLT

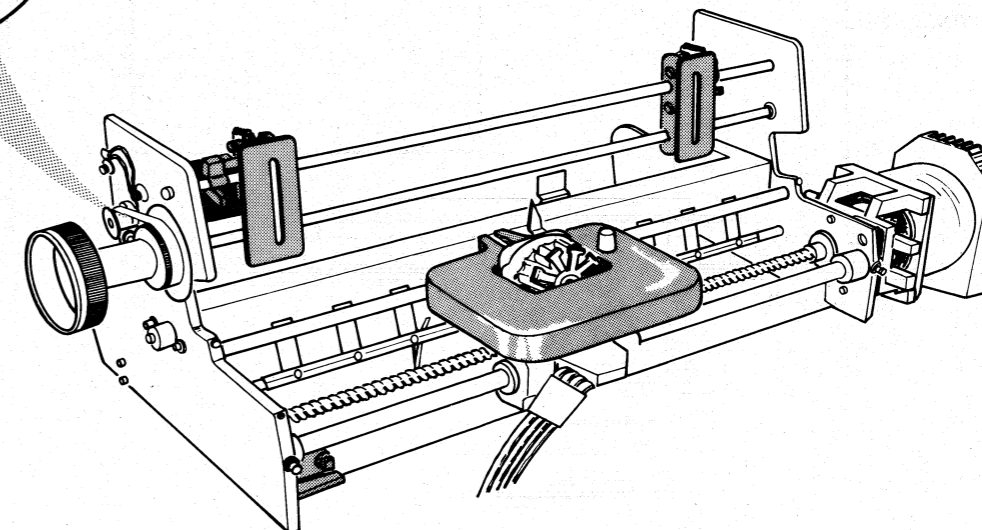
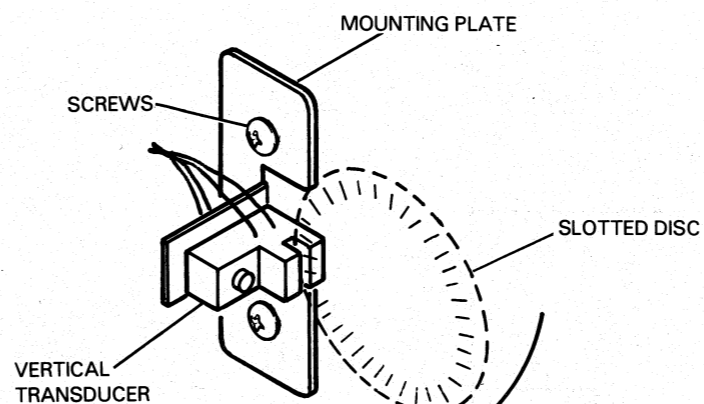


- 4 If the A sine wave is distorted, does not appear, or the fault light comes on, adjust the vertical transducer as follows:
 - Center the horns of the transducer around the slotted sector disc by loosening the transducers mounting bolt.
 - Loosen the two screws attaching the vertical transducer's mounting plate to the left end plate.
 - Move the mounting plate towards or away from the slotted disc and repeat step 3

NOTE:

If the fault light is on, press MST RST before proceeding to step 3.

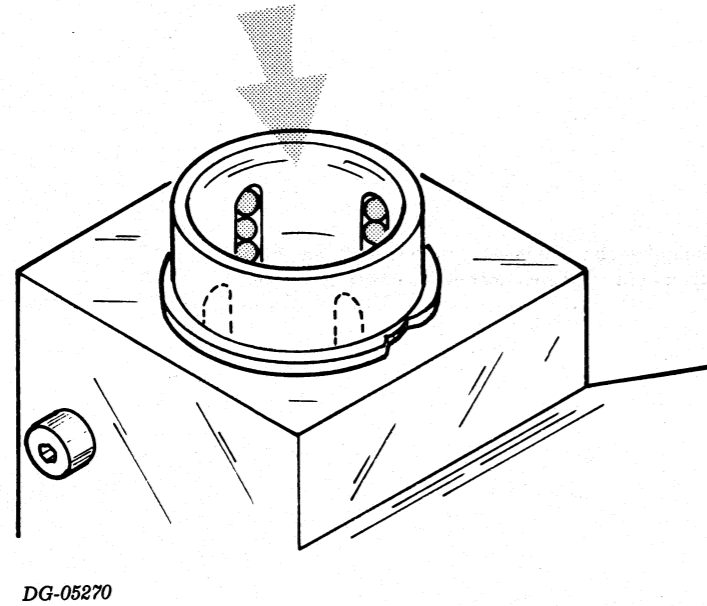
- 5 ONCE ADJUSTED - Tighten the two screws which secure the mounting plate to the end plate.



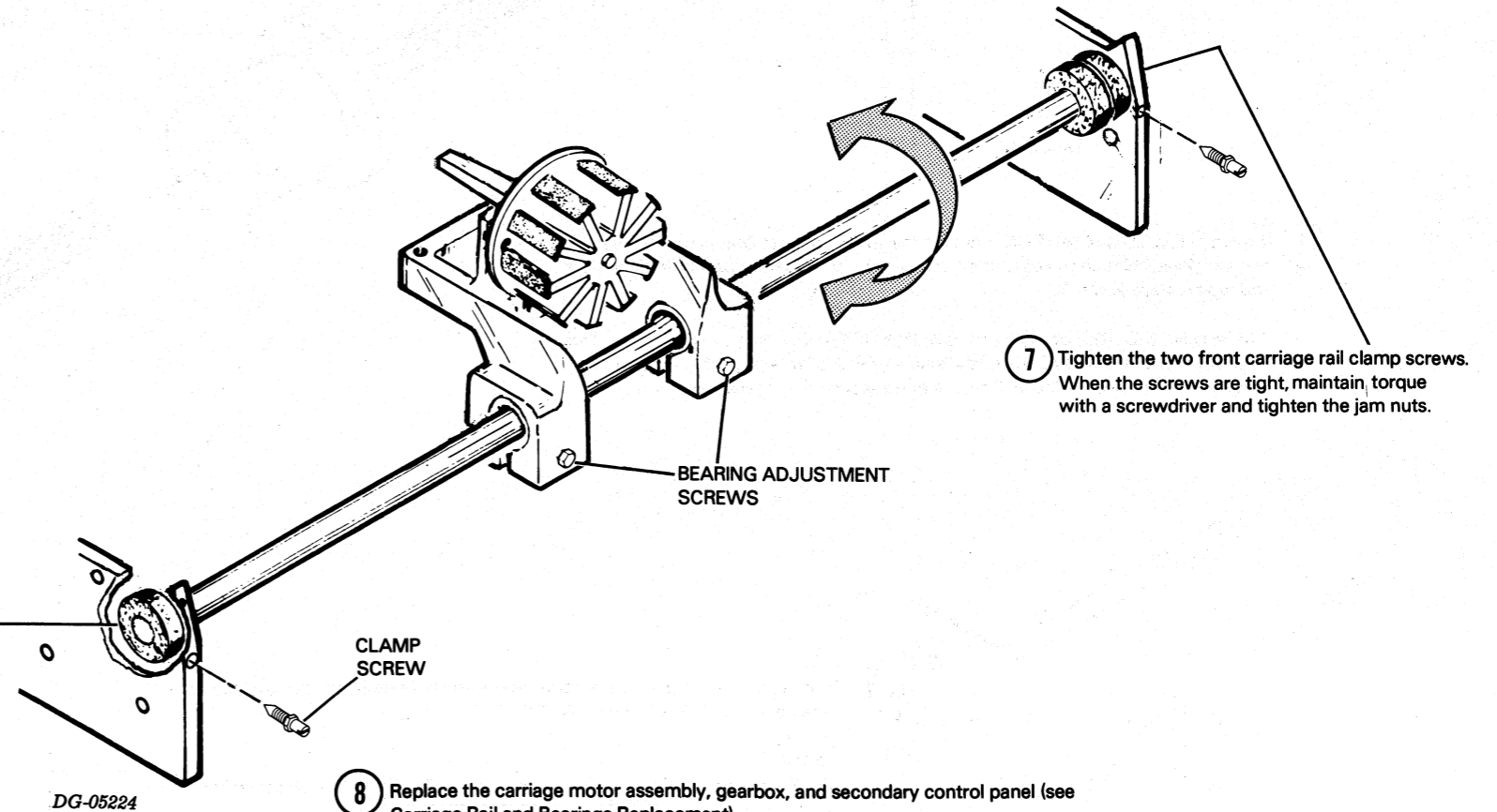
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Carriage Bearings Cleaning And Adjustment

- 1 Remove the carriage from the printer (see Carriage Rail and Bearings Replacement).
- 2 Apply grease to the four bearing tracks in each of the two bearings.



- 3 Clean the front carriage rail using isopropyl alcohol on a lint free cloth. Coat the entire rail with a film of grease (this prevents rusting).
- 4 Install the carriage and carriage rail in the printer (see Carriage Rail and Bearings Replacement).
- 5 Loosen the two bearing adjustment screws. Turn the front carriage rail with your fingers while you tighten the left bearing adjustment screw. Tighten the screw until you feel more resistance in turning the front rail.
- 6 Repeat this step for the right bearing.



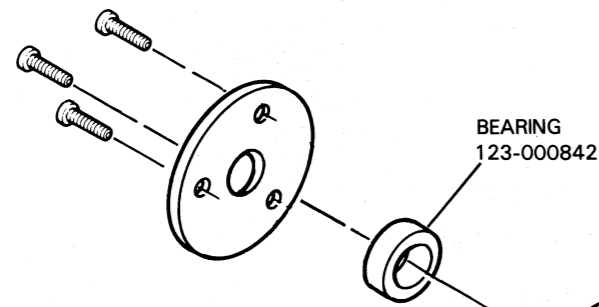
- 7 Tighten the two front carriage rail clamp screws. When the screws are tight, maintain torque with a screwdriver and tighten the jam nuts.

NOTE:
 When installing the front carriage rail, be sure you place one rubber stop on the left end and two rubber stops on the right.

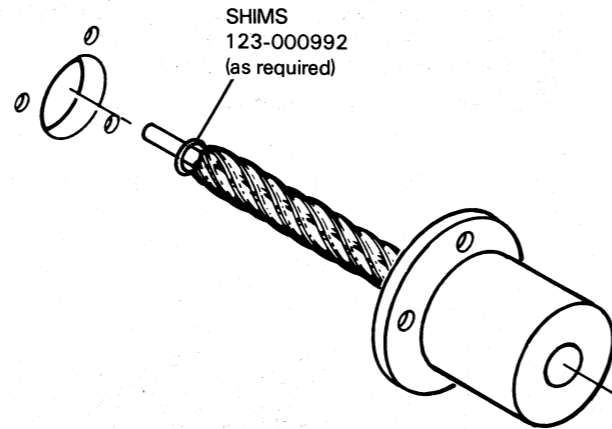
- 8 Replace the carriage motor assembly, gearbox, and secondary control panel (see Carriage Rail and Bearings Replacement).
- 9 Perform the Carriage Sector Disc(s) Timing Adjustments (Parts I and II).

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BEARING
123-000842



SHIMS
123-000992
(as required)

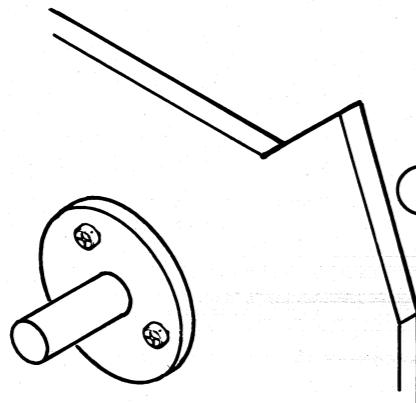
DG-05225

NOTE:
This adjustment procedure is meant to be performed between steps 6 and 10 of Anti-backlash Nut and Leadscrew Replacement.

NOTE:
When fastening the bearing retainer plates be sure they are flush with the end plate, and that the washers are not wedged between the retainer plate and the end plate.

2 If there IS EXCESSIVE MOTION: Remove the left bearing retainer plate and INSERT one additional shim on the left end of the leadscrew. Refasten the left retainer plate and repeat steps 2 and 3.

If there is NO MOTION, or the leadscrew does NOT TURN: Remove the left bearing retainer plate and REMOVE one of the shims from the left end of the leadscrew. Refasten the left retainer plate. Check that the leadscrew moves properly.

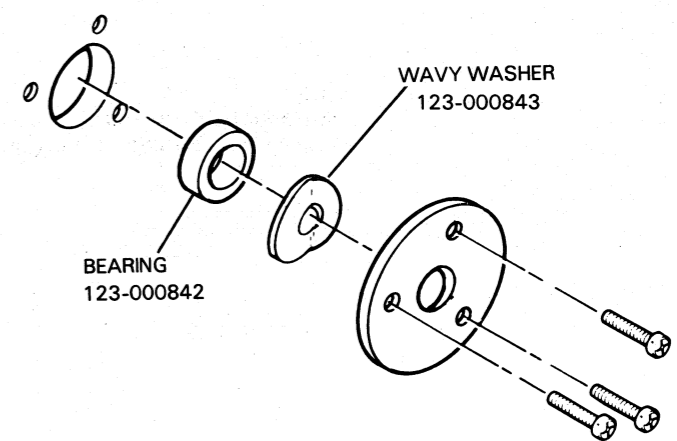


1 Press in on the left end of the leadscrew with about 5 lbs. of pressure and note whether or not the leadscrew moves.

NOTE:
Displacement should be between .002 and .010 inches. Each shim washer is .004 inches thick.

SPECIFICATIONS:

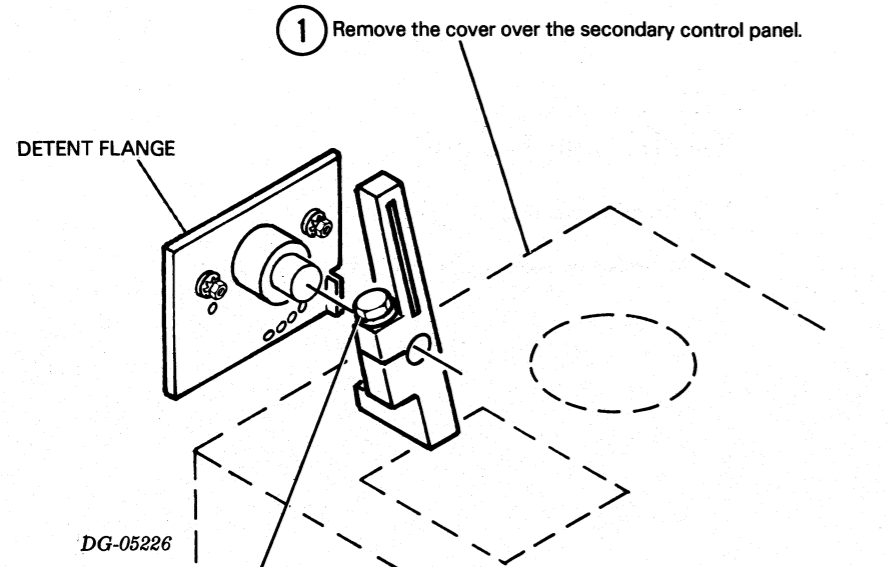
Displacement should be between .002 and .010 inches. Each shim washer is .004 inches in thickness.



BEARING
123-000842

WAVY WASHER
123-000843

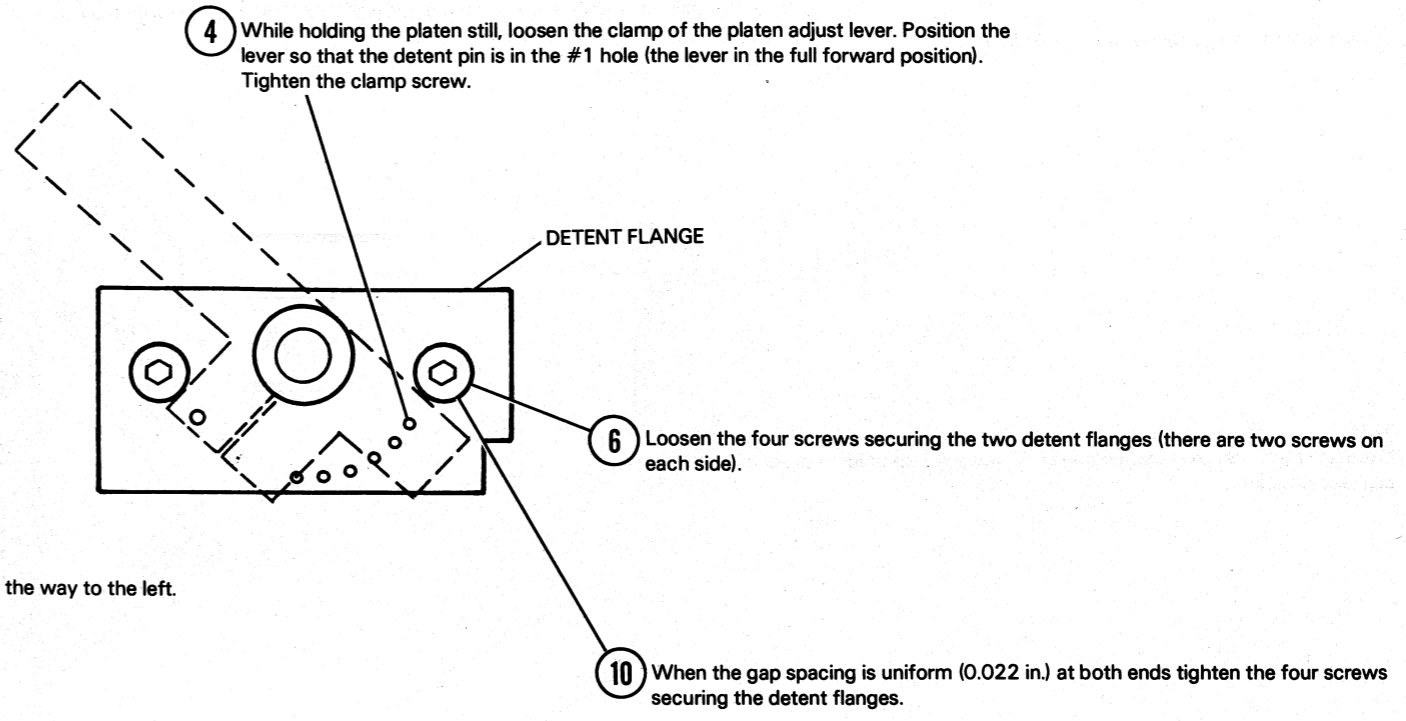
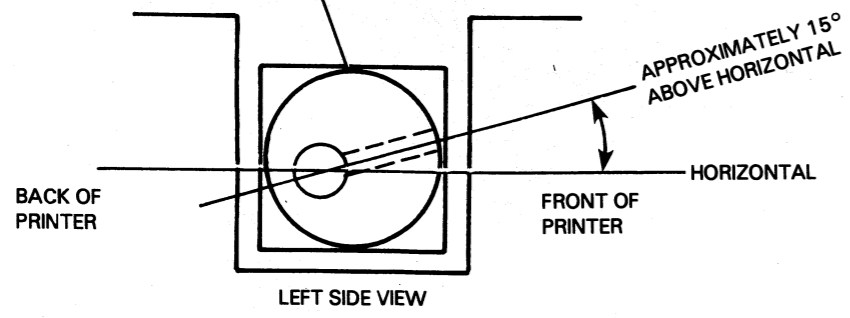
Platen Alignment Adjustment



1 Remove the cover over the secondary control panel.

2 Loosen the clamp of the platen adjust lever. Slide the lever out to the end of the shaft and retighten the clamp.

3 Rotate the lever until the cams are in position as shown. The set screw and the largest point of the cam face the front of the printer and are pointed just above the horizontal.



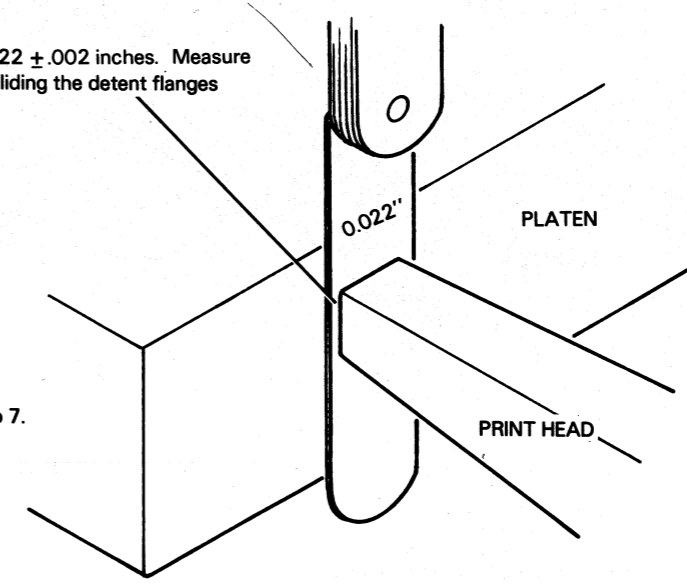
5 Move the carriage all the way to the left.

Note:
 The Printhead is very sensitive. Be careful not to damage the Printhead while measuring the platen spacing.

7 Set the gap between the printhead and the platen to 0.022 ± .002 inches. Measure the gap using a .022 feeler gauge. Adjust the platen by sliding the detent flanges forwards or backwards.

8 Move the carriage all the way to the right and repeat step 7.

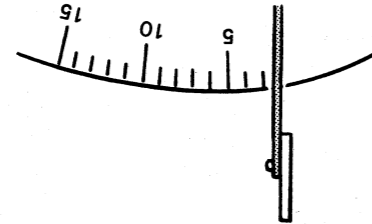
9 Move the carriage back to the left and check the gap spacing.



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1 Move the carriage all the way to the right.

3 Hold the 5M Polyflex tensiometer (DGC P/N 128-000787) with the right hand as shown. The measuring scale should be facing left.



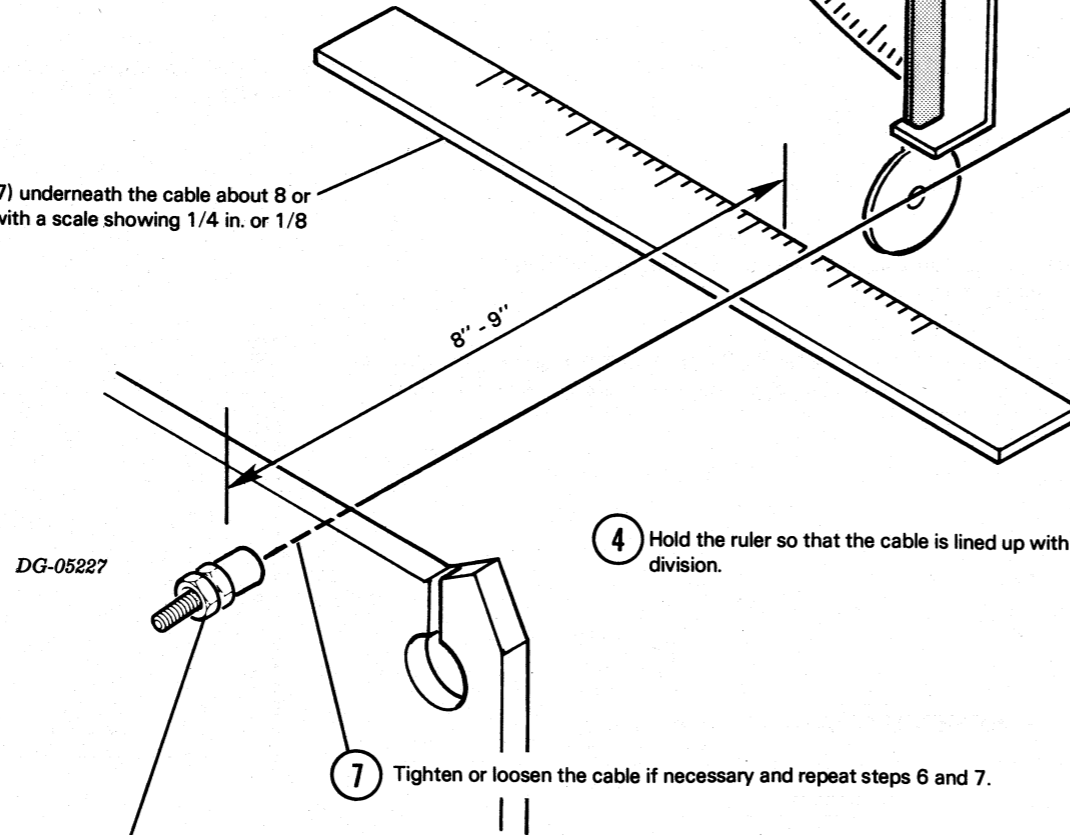
Note:
 The scale on the tensiometer begins at "3" and goes up in increments of 1. It is labeled at 5, 10, 15, etc.

Special Tools Required:

6 inch metal ruler DGC P/N 128-000197

5 M Polyflex tensiometer DGC P/N 128-000787

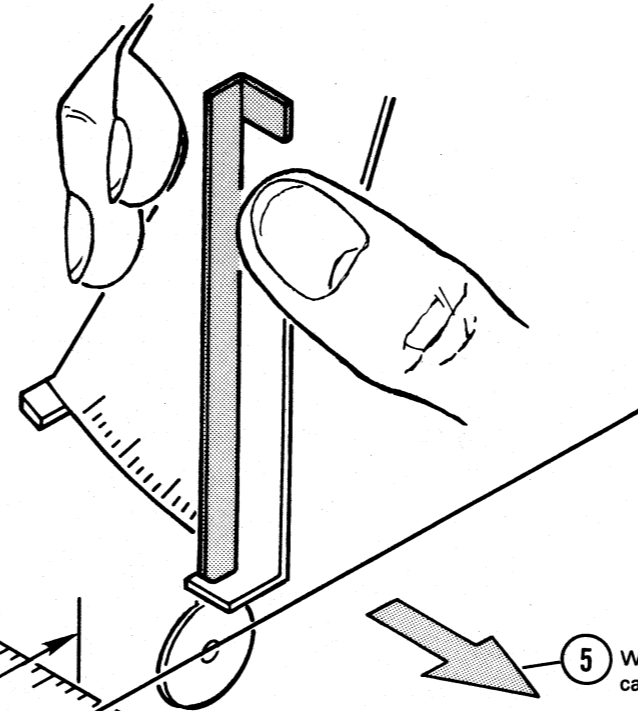
2 Place a 6 inch metal ruler (DGC P/N 128-000197) underneath the cable about 8 or 9 inches from the left end plate. Orient the ruler with a scale showing 1/4 in. or 1/8 in. divisions facing to the right.



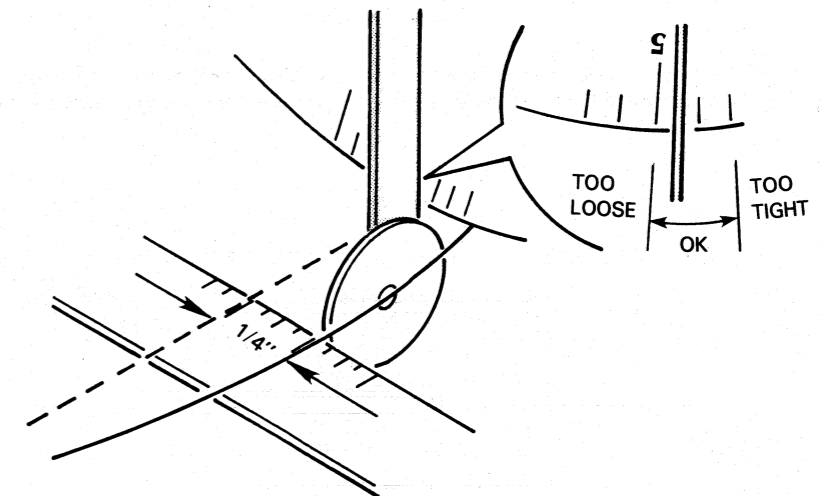
4 Hold the ruler so that the cable is lined up with a division marking. Note which division.

7 Tighten or loosen the cable if necessary and repeat steps 6 and 7.

8 When the tension is correct, lock the adjustment by tightening the outer nut without changing the setting.



5 With the tensiometer held vertically, and the scale facing left, pull forward on the cable with the disk of the tensiometer.



6 Deflect the cable 1/4 inch from its original position and check the reading on the tensiometer. The arm should cross the scale between "3" and "5".

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