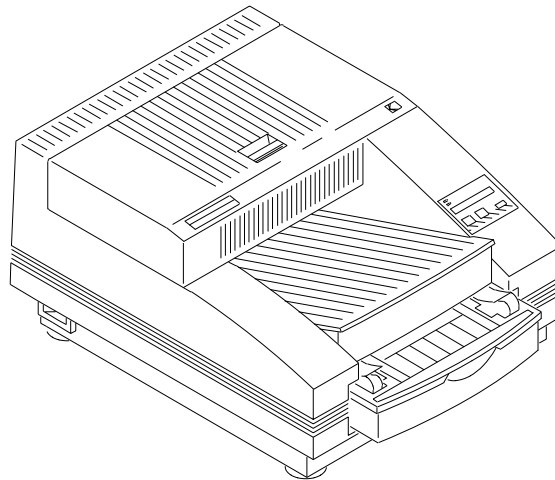


ADJUSTMENTS AND REPLACEMENTS
for the
Kodak Professional 8670 PS THERMAL PRINTER
Service Code: 3179
Kodak PICTURE MAKER PS4 PRINTER
Service Code: 2913
and the
Kodak Image Magic EI 8651 DIGITAL COLOR PRINTER
Service Code: 2677



A087_2013AC



GLOBAL CUSTOMER SERVICE AND SUPPORT

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This equipment includes parts and assemblies sensitive to damage from electrostatic discharge. Use caution to prevent damage during all service procedures.

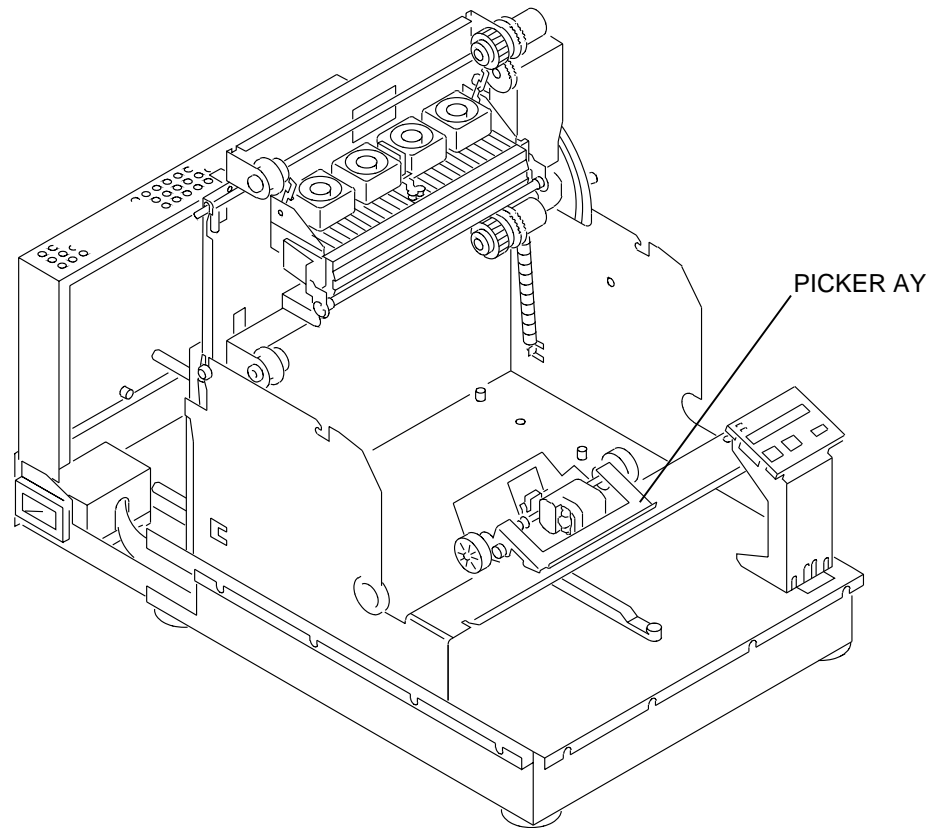
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Section 1: Adjustments

PICKER PENETRATION

Adjustment Specification



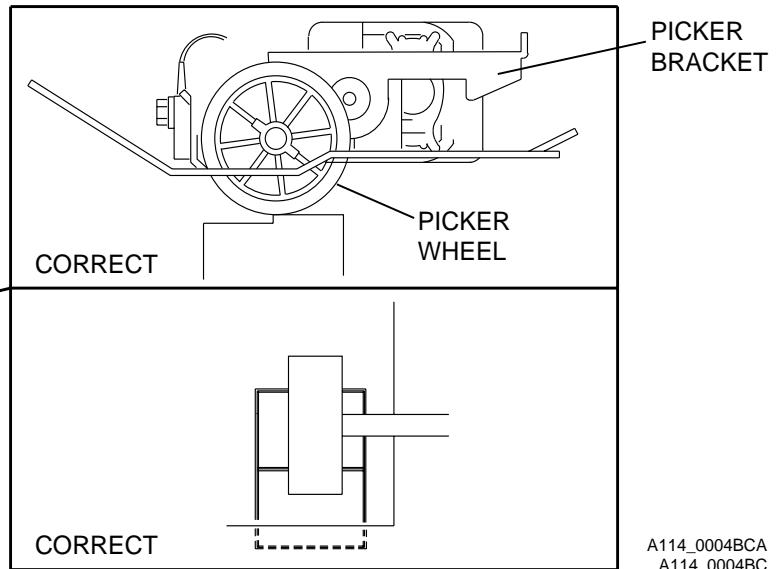
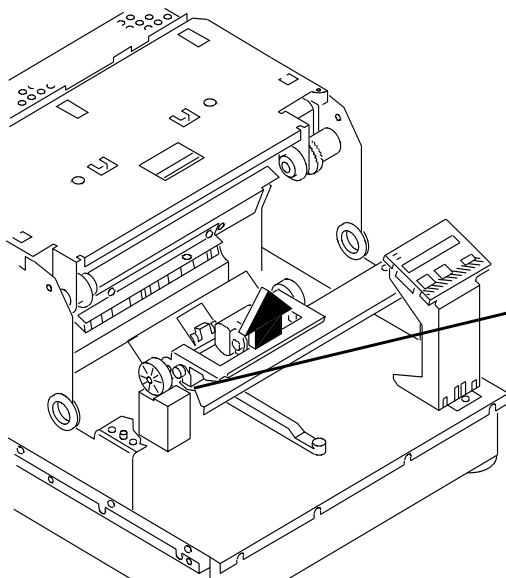
A087_0166HCB
A087_0166HC

- Purpose:** To make the PICKER AY have correct and continual operation.
- Specification:** Determined with the correct specification after the adjustment.
- Special Tools:** PICKER HEIGHT GAUGE TL-4973
- Prerequisites:** Remove:
- DOOR COVER - See Page 39
 - ENCASEMENT - See Page 40
- Postrequisites:** Make test prints to check for correct operation.
-

To Check:

- [1] Check that the PICKER AY is the correct height.

To Adjust:



A114_0004BCA
A114_0004BC

[1] Open the DOOR.

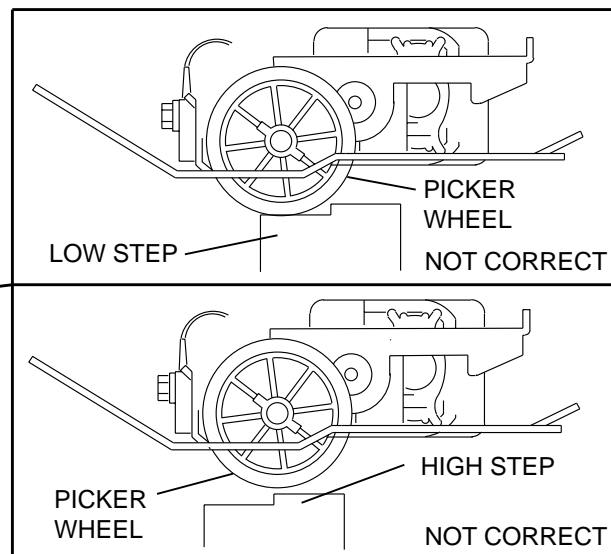
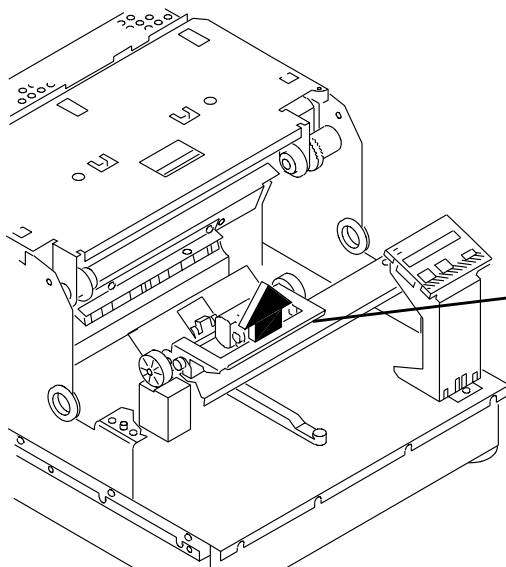
[2] Remove:

- DONOR
- RECEIVER

[3] Pull the PICKER BRACKET up to allow the PICKER WHEELS to move down.

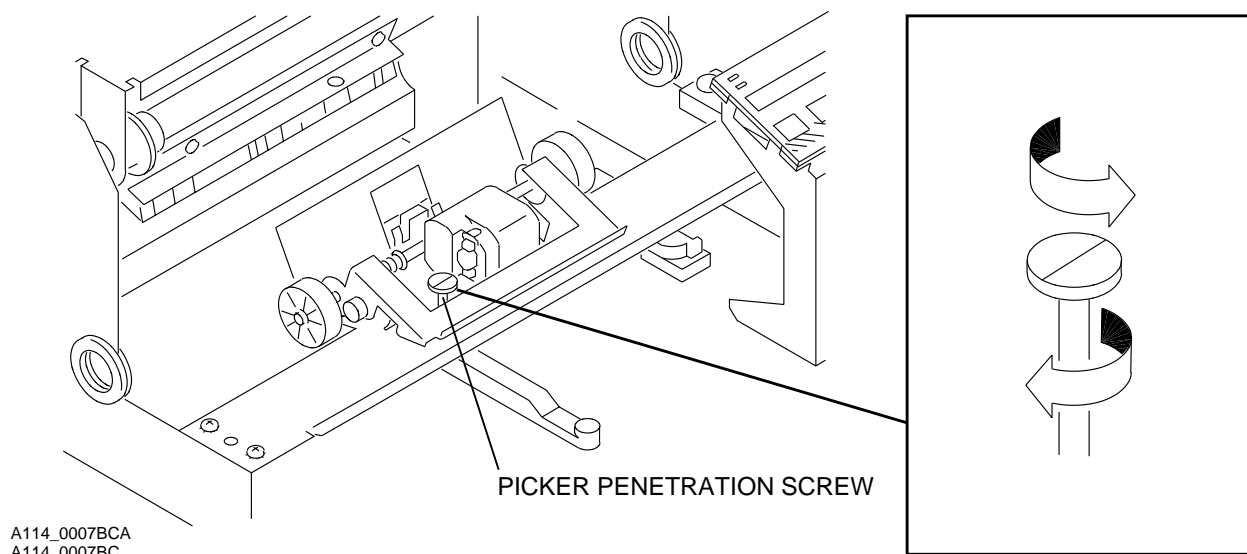
[4] Do the following to check the PICKER PENETRATION. Use the PICKER HEIGHT GAUGE TL4973.

- (a) The PICKER WHEEL must be in the center over the GAUGE. See the graphic above.
- (b) With the PICKER WHEELS down, move the GAUGE under each PICKER WHEEL.



A114_0005BCA
A114_0005BC

- (c) If the PICKER PENETRATION is within specification, the PICKER WHEELS will not make contact with the LOW STEP and will make contact with the HIGH STEP.
- (d) If the PICKER PENETRATION is correct, advance to Step 6. If not, continue with Step 5.



Important

The PICKER PENETRATION SCREW has a patch that holds the SCREW. The patch should not loosen with use or vibration. Only rotate the SCREW in 1/2 increments to keep the patch tight.

[5] Adjust:

Height	Penetration	Procedure
Either PICKER WHEEL contacts the LOW STEP on the PICKER HEIGHT GAUGE TL-4973	Too deep	Rotate the PICKER PENETRATION SCREW clockwise 1/2 rotation to decrease penetration.
Either PICKER WHEEL does not make contact with the HIGH STEP on the PICKER HEIGHT GAUGE TL-4973	Too high	Rotate the PICKER PENETRATION SCREW counterclockwise 1/2 rotation to increase penetration.

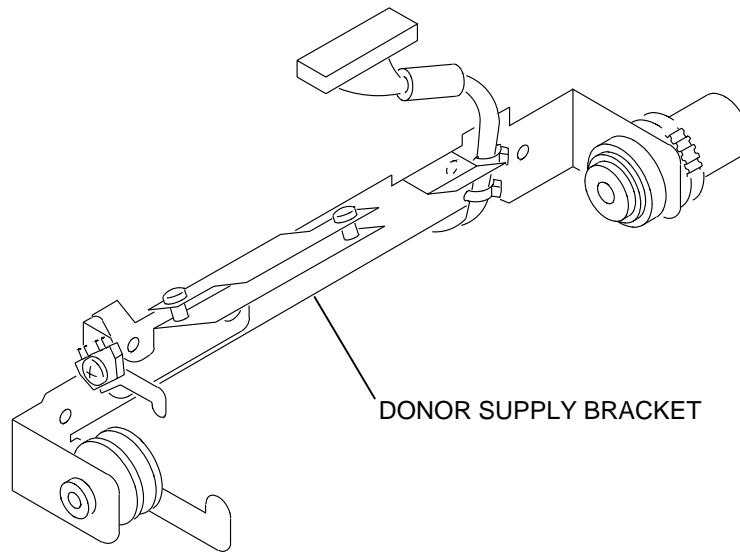
[6] Clean the PICKER WHEELS after the you have checked the penetration or have made any adjustments. Use the LINT-FREE WATER PAD 1C8081.

[7] Install:

- ENCASEMENT
- DOOR COVER

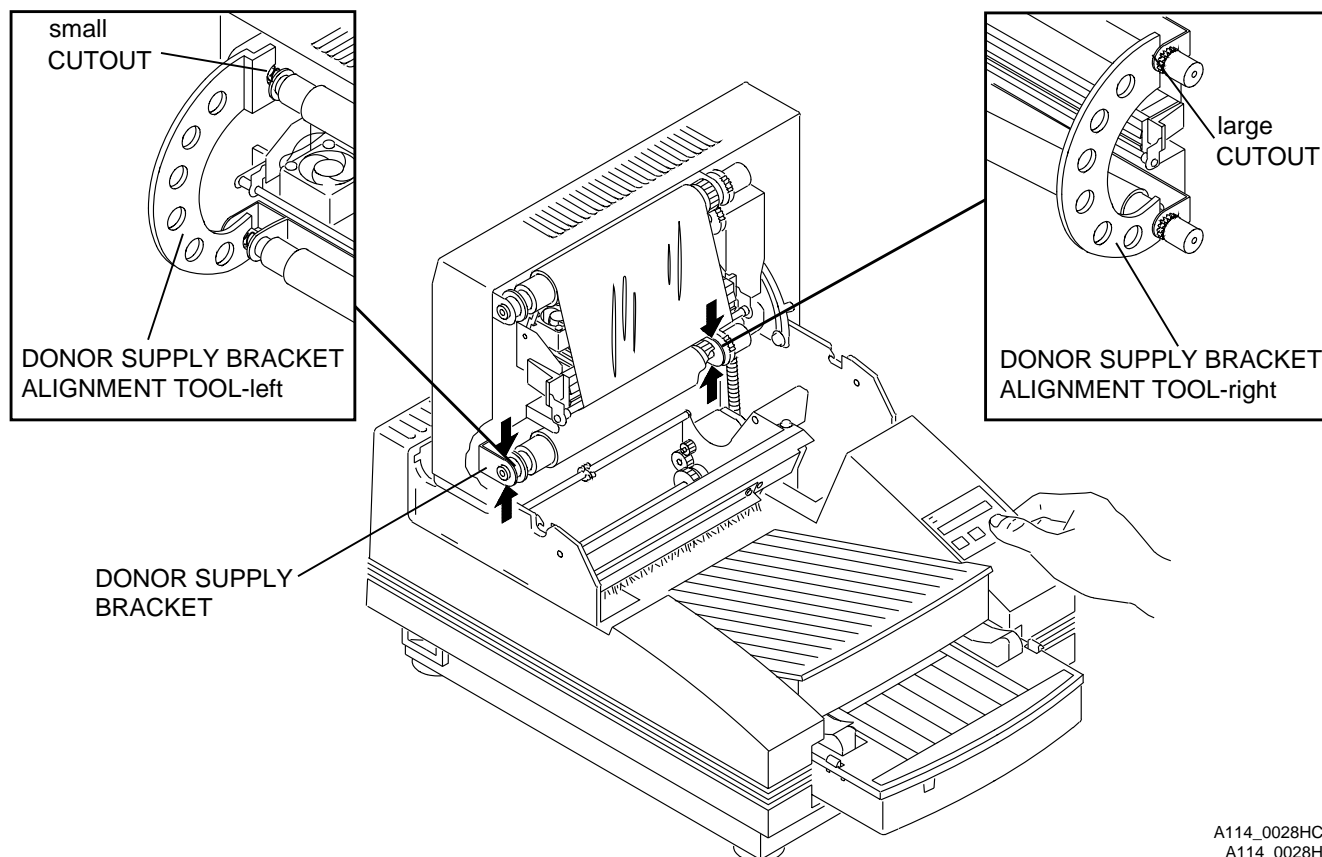
DONOR SUPPLY BRACKET

Adjustment Specification



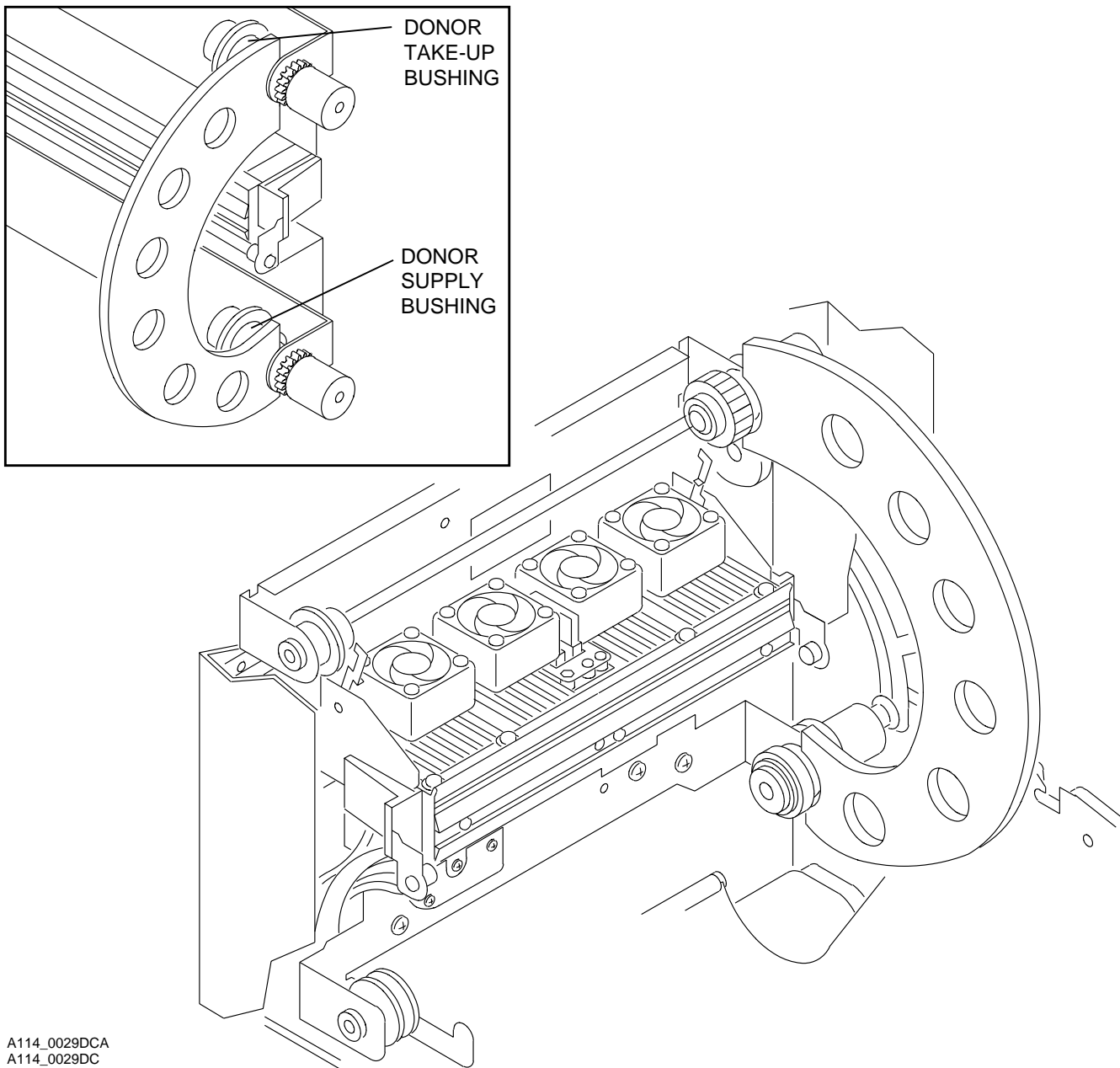
A114_0008BCA
A114_0008BC

- Purpose:** To decrease folds and STRETCH artifacts on the leading edge of the print.
- Specification:** The distance between the DONOR TAKE-UP SPINDLE and the DONOR SUPPLY SPINDLE should be 162.8 mm (6.410 in.)
- Special Tools:** DONOR SUPPLY BRACKET ALIGNMENT TOOL TL-5250
- Prerequisites:** None
- Postrequisites:**
- “DIAG: DONOR TEST”
 - Make 5 test prints.
-

To Check:**Important**

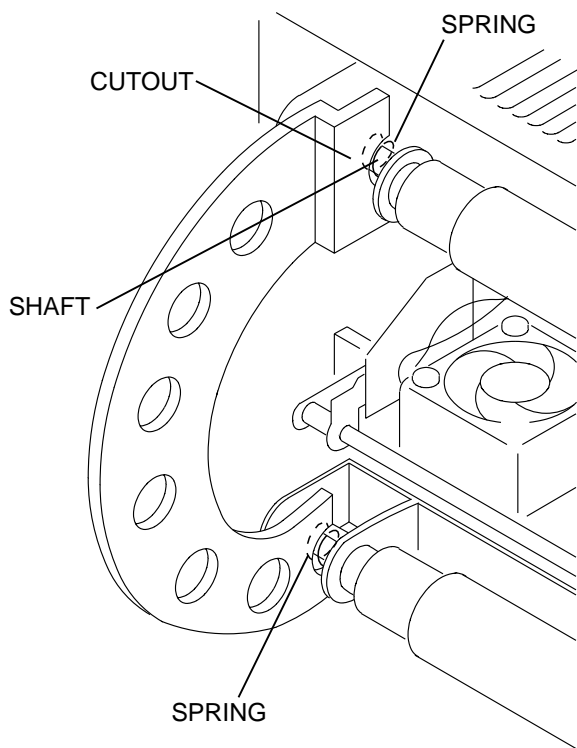
The DONOR SUPPLY BRACKET ALIGNMENT TOOL TL-5250 is 2 parts. 1 part is a right tool and has a large CUTOUT. The other is a left tool and has the small CUTOUT.

- [1] Do the following procedure to check that the DONOR SUPPLY BRACKET is correctly aligned. Use the DONOR SUPPLY BRACKET ALIGNMENT TOOL TL-5250.



A114_0029DCA
A114_0029DC

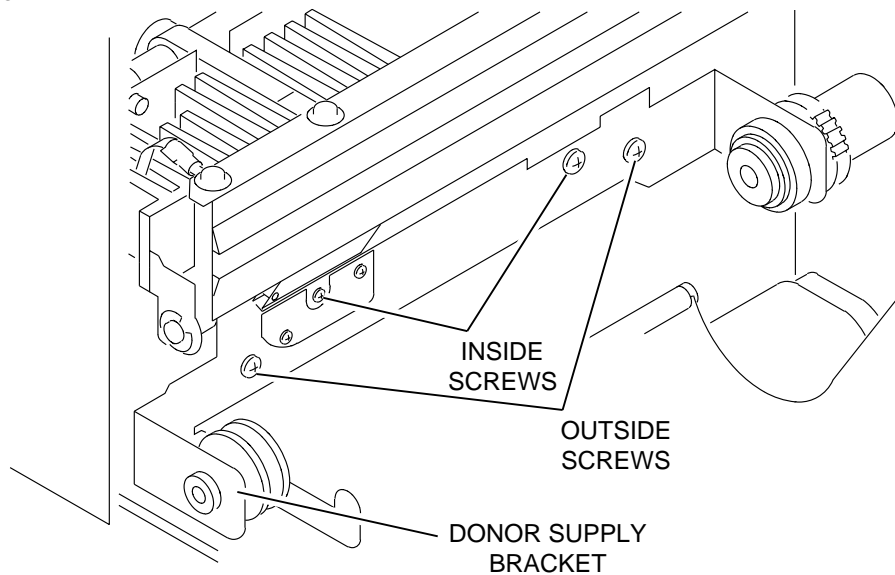
- [2] Place the right tool onto the DONOR TAKE-UP BUSHING and DONOR SUPPLY BUSHING.
- [3] Check that the right tool seats correctly onto the 2 BUSHINGS.



- [4] Place the left tool between the 2 SPRINGS. The CUTOUT on the tool should be against the SHAFT.

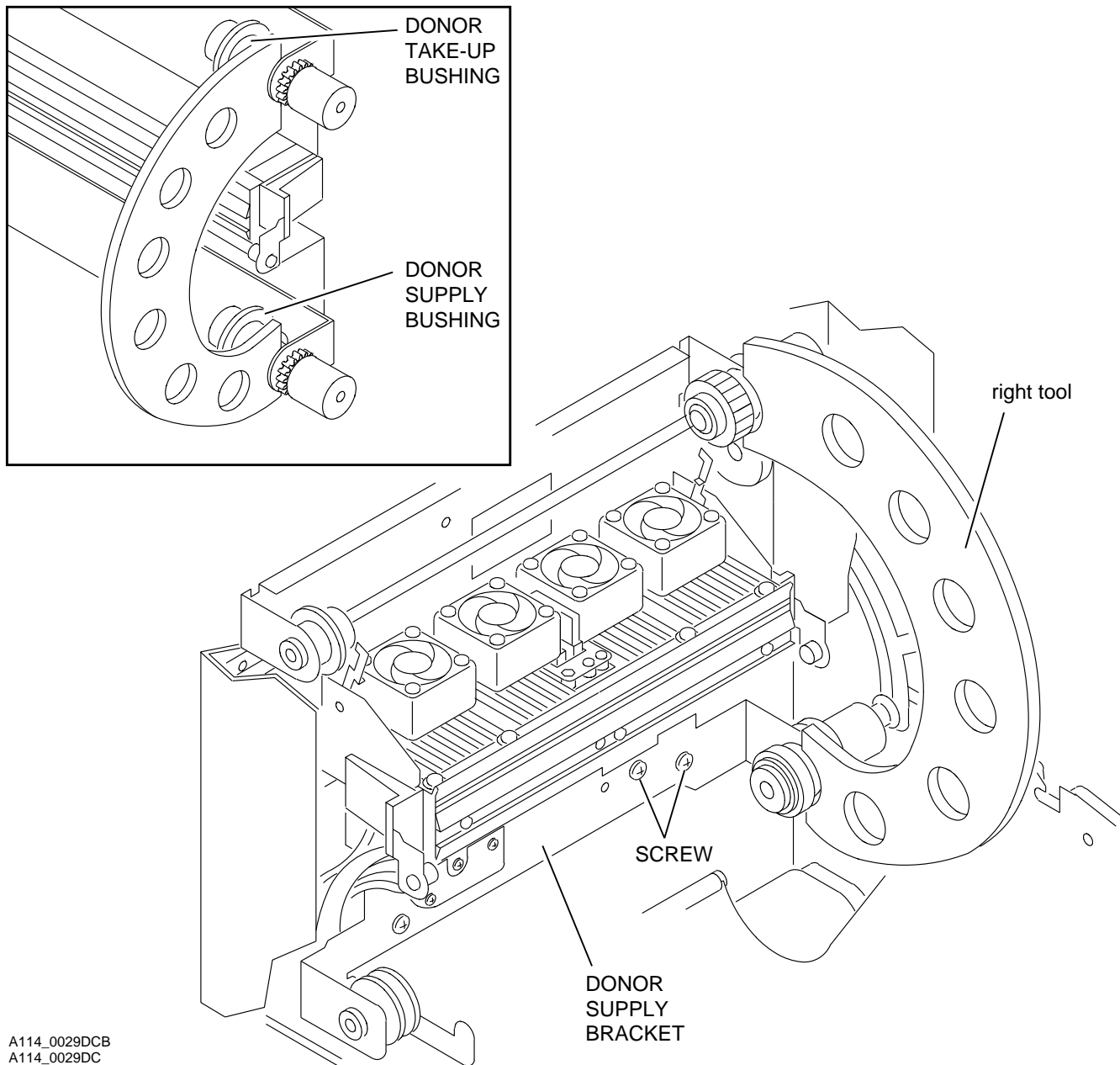
A114_0030GCA
A114_0030GC

To Adjust:



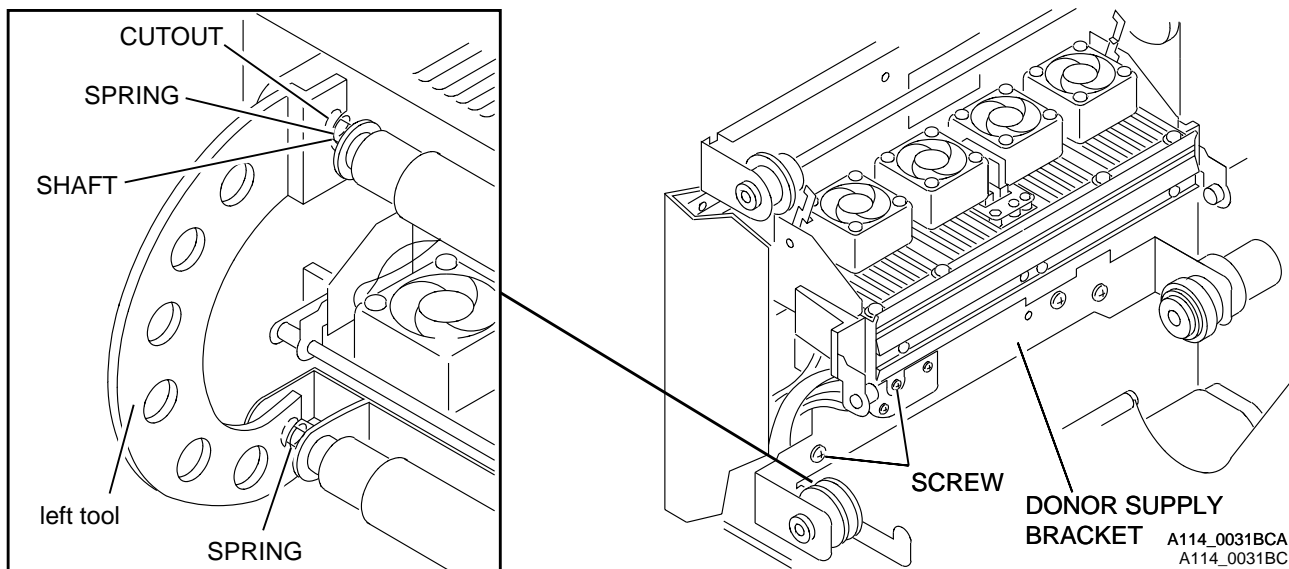
A114_0027BCA
A114_0027BC

- [1] Remove the RIBBON.
[2] Loosen the 2 INSIDE SCREWS and the 2 OUTSIDE SCREWS on the DONOR SUPPLY BRACKET.



A114_0029DCB
A114_0029DC

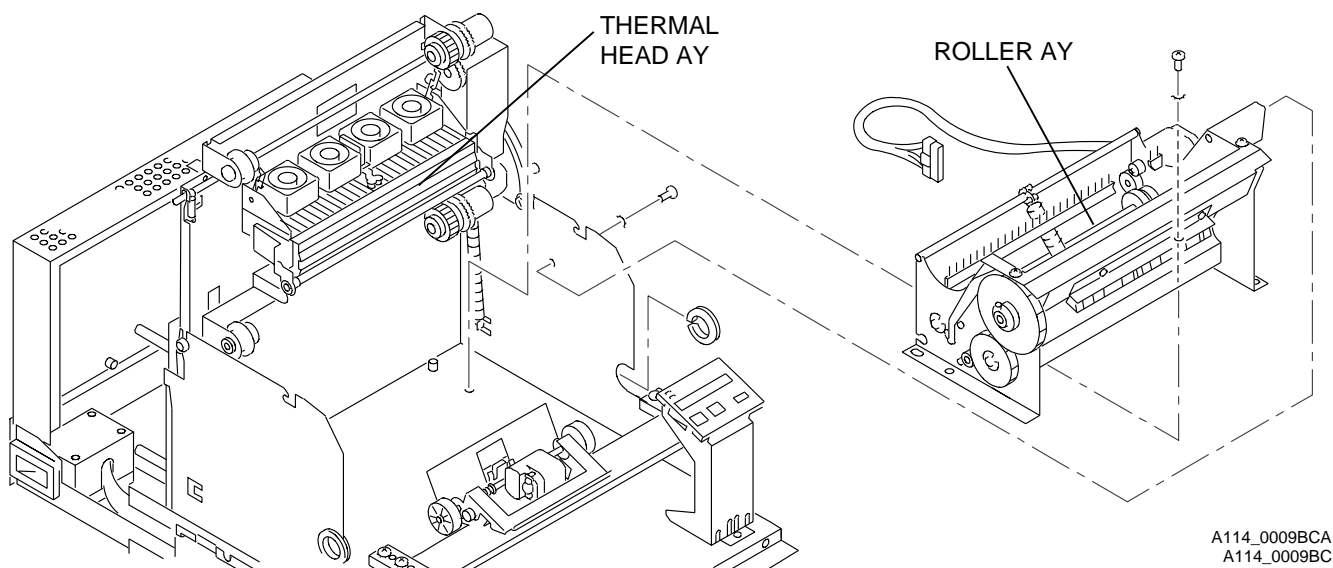
- [3] Place the right tool in the correct position. Check that the right tool is flush against the DONOR TAKE-UP BRACKET and the DONOR SUPPLY BRACKET.
- [4] Tighten the 2 SCREWS on the right side of the DONOR SUPPLY BRACKET.
- [5] If the right tool is not flush against the 2 BRACKETS, do Steps 2 through 4 again.



- [6] Place the left tool in the correct position. Tighten the 2 SCREWS on the left side of the DONOR SUPPLY BRACKET.

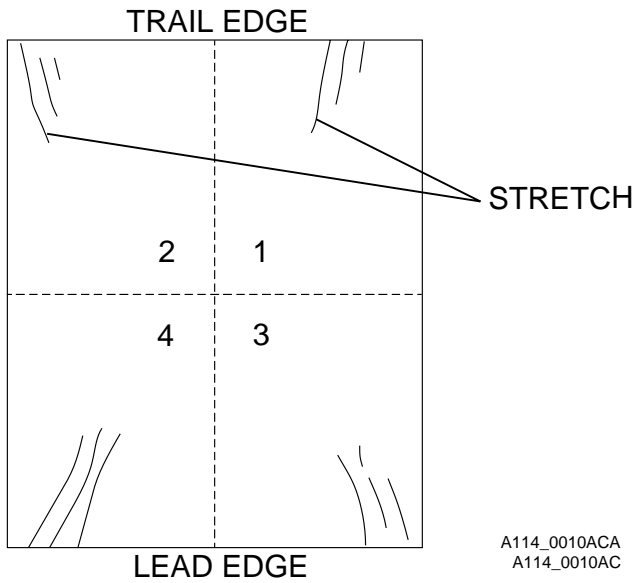
ROLLER AY

Adjustment Specification



- Purpose:** To decrease STRETCH artifacts on the trailing edge of the print.
- Specification:** None
- Special Tools:**
- LONG MAGNETIC SCREWDRIVER TL-4505
 - BIT KIT TL-4503
- Prerequisites:** Remove:
- DOOR COVER - See Page 39
 - ENCASEMENT - See Page 40
- Postrequisites:** Make test prints to check for correct operation.

To Check:

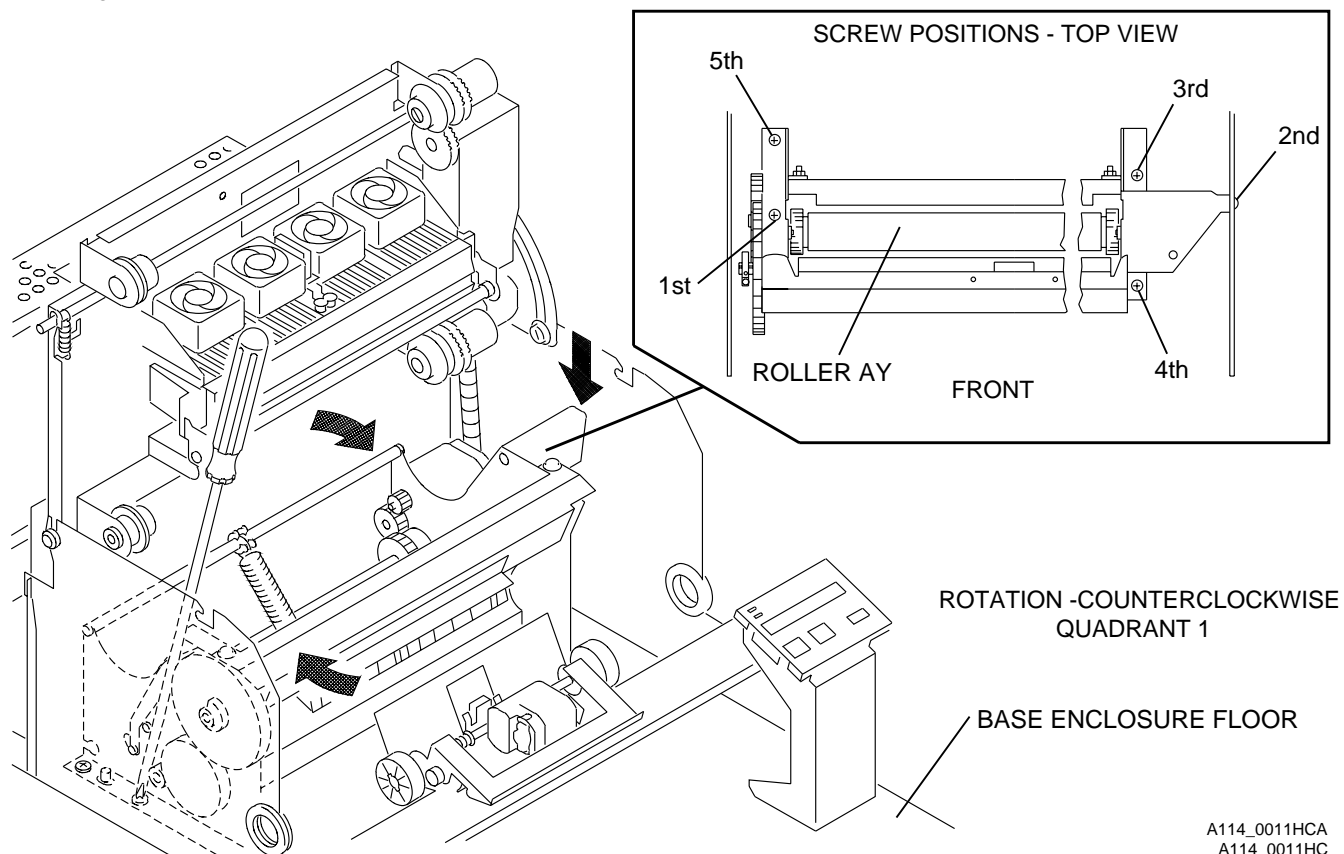


A114_0010ACA
A114_0010AC

[1] Check:

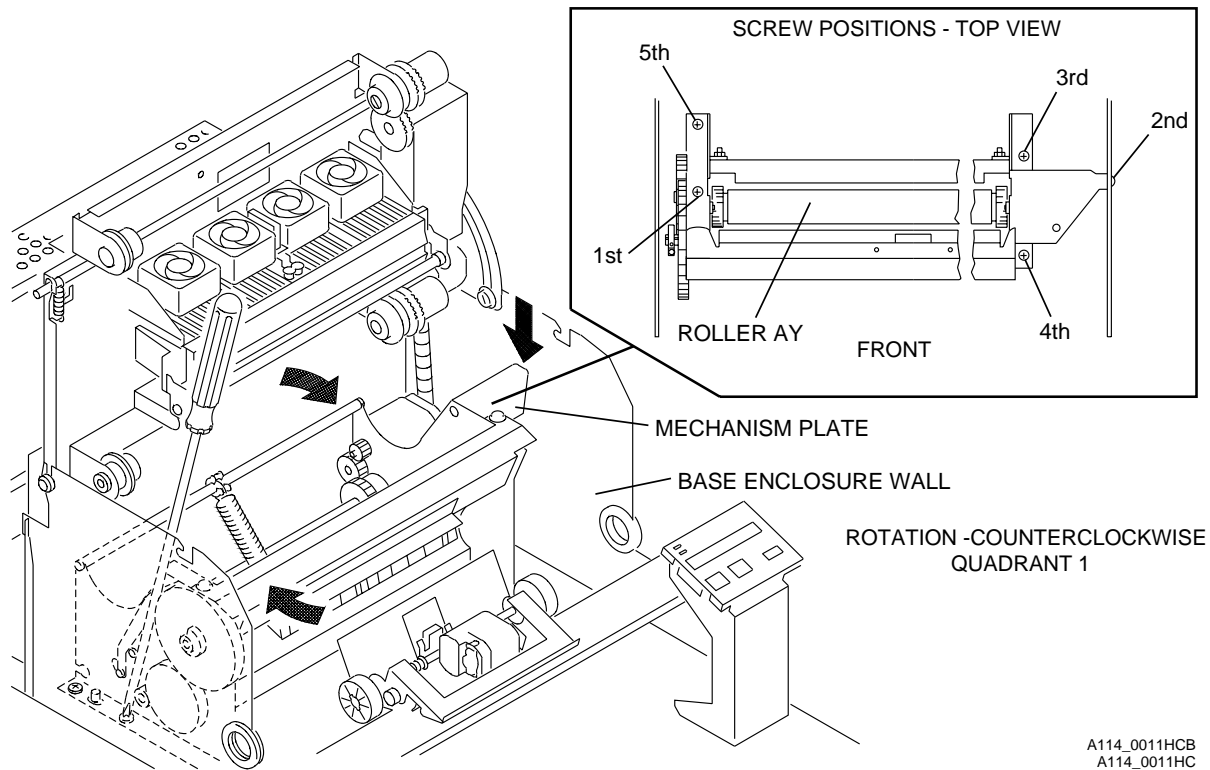
- that the ROLLER AY is aligned correctly with the THERMAL HEAD AY.
- for STRETCH on the trailing edge of the print.

[2] Determine if the print has STRETCH in areas 1 or 2.

To Adjust:**Warning**

Dangerous Voltage

- [1] De-energize the PRINTER.
- [2] Loosen the 5 SCREWS holding the ROLLER AY to the BASE ENCLOSURE FLOOR and the right SIDE WALL.
- [3] If the STRETCH artifact is in area 1, continue with Steps 4 to 8. If the STRETCH artifact is in area 2, advance to Step 9.



A114_0011HCB
A114_0011HC

- [4] Pull the left side of the ROLLER AY toward the front of the PRINTER.
- [5] Tighten the front SCREW on the left side.
- [6] Press the right side of the ROLLER AY toward the back of the PRINTER.
- [7] With minimum pressure, press down on the right MECHANISM PLATE holding the ROLLER AY to the right side of the BASE ENCLOSURE WALL.
- [8] Tighten the following SCREWS in the sequence indicated in the graphic above:
 - 2nd SCREW
 - 3rd SCREW
 - 4th SCREW
 - 5th SCREW

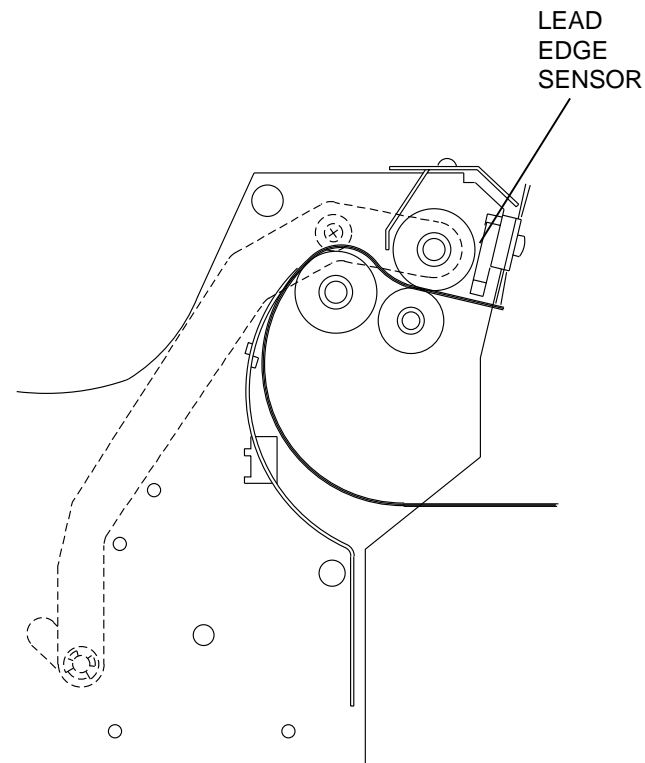
Note

If this procedure does not correct the artifact, the malfunction might be caused by other conditions:

- DONOR SUPPLY BRACKET - see Page 65
 - THERMAL HEAD - see Page 75
 - DOOR AY - see Page 83
 - BASE ENCLOSURE WALLS - see Page 36
- [9] Pull the right side of the ROLLER AY forward toward the front of the PRINTER.
 - [10] Tighten the front SCREW on the left side.
 - [11] Press the left side of the ROLLER AY toward the back of the PRINTER.
 - [12] With minimum pressure, press down on the right MECHANISM PLATE holding the ROLLER AY to the right side of the BASE ENCLOSURE WALL.
 - [13] Tighten the following SCREWS in the sequence indicated in the graphic above:
 - 2nd SCREW
 - 3rd SCREW
 - 4th and 5th SCREW

LEAD EDGE SENSOR

Adjustment Specification



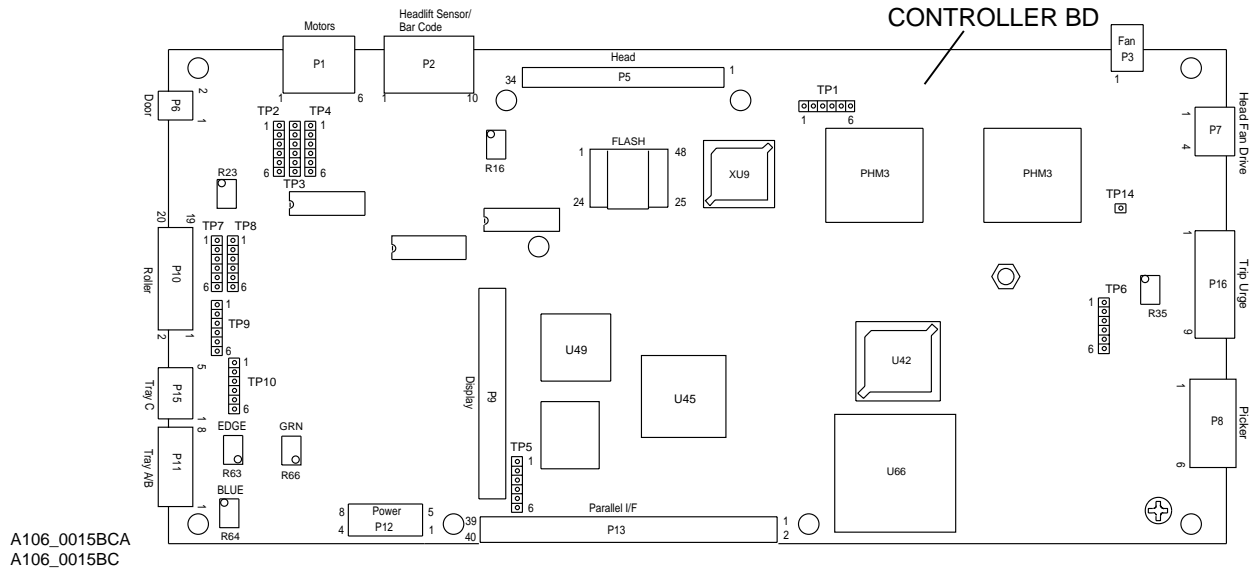
A114_0012GCA
A114_0012GC

Purpose:	To check for correct operation.
Specification:	0.18 to ± 0.005 V DC
Special Tools:	None
Prerequisites:	None
Postrequisites:	Make a test print for correct operation.

To Check:

- [1] Check for correct operation.

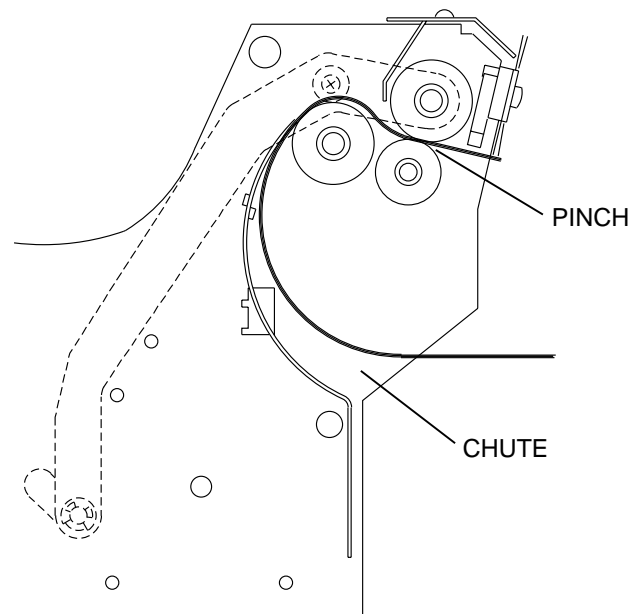
To Adjust:



Important

Do this adjustment when you install a new ROLLER AY or CONTROLLER BD. If necessary, do this adjustment during some of the diagnostic procedures.

- [1] Set the DIGITAL VOLT METER (DVM) to DC voltage.
- [2] Connect the following on the CONTROLLER BD. Also can reference Pages 68 and 70.
 - red PROBE of the DVM to TP8, PIN 3
 - black PROBE to TP4, PIN 6
- [3] Open the DOOR AY.
- [4] Remove the PAPER TRAY.



A114_0012GCB
A114_0012GC

Important

You must use only a TRANSPARENCY to do this adjustment.

- [5] Insert a new TRANSPARENCY into the CHUTE.
- [6] Enter the diagnostics.
- [7] Close the PINCH.
- [8] Place the edge of the TRANSPARENCY in the correct position.
- [9] Move the TRANSPARENCY until it is aligned with the EXIT STATIC BRUSH. Use the procedure "DIAG: STEPPER MOTOR", forward or reverse. See the DIAGNOSTICS, Publication No. DG3179-1.
- [10] Adjust R63 until the voltage measures 0.18 ± 0.005 V DC. See Page 68 or Page 70.

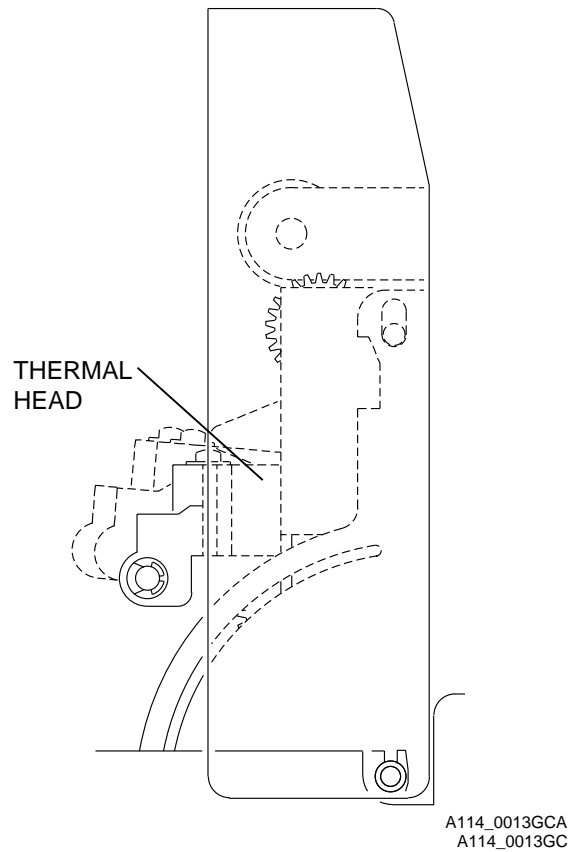
Note

The correct voltage for this adjustment is a minimum of 0.175 V DC to a maximum of 0.25 V DC. If R63 cannot be adjusted below 0.25 V DC, you must install a new LEAD EDGE/STATIC BRUSH AY or CONTROLLER BD.

- [11] Open the PINCH again.
- [12] Remove the TRANSPARENCY.

Voltage for the THERMAL HEAD

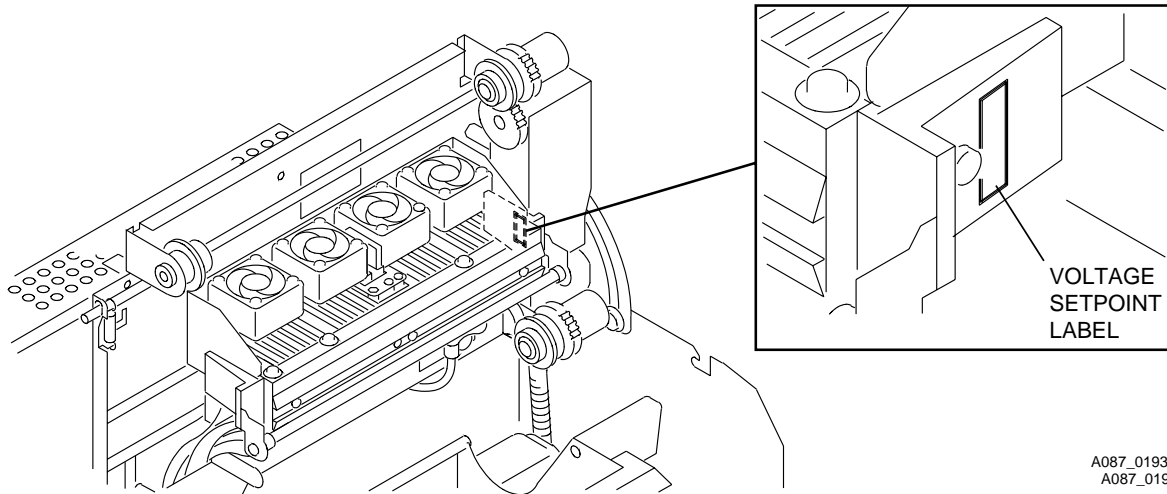
Adjustment Specification



Purpose:	To set the voltage for the THERMAL HEAD.
Specification:	See the voltage printed on the VOLTAGE SET•POINT LABEL
Special Tools:	None
Prerequisites:	None
Postrequisites:	Make a test print to check for correct operation.

To Check:

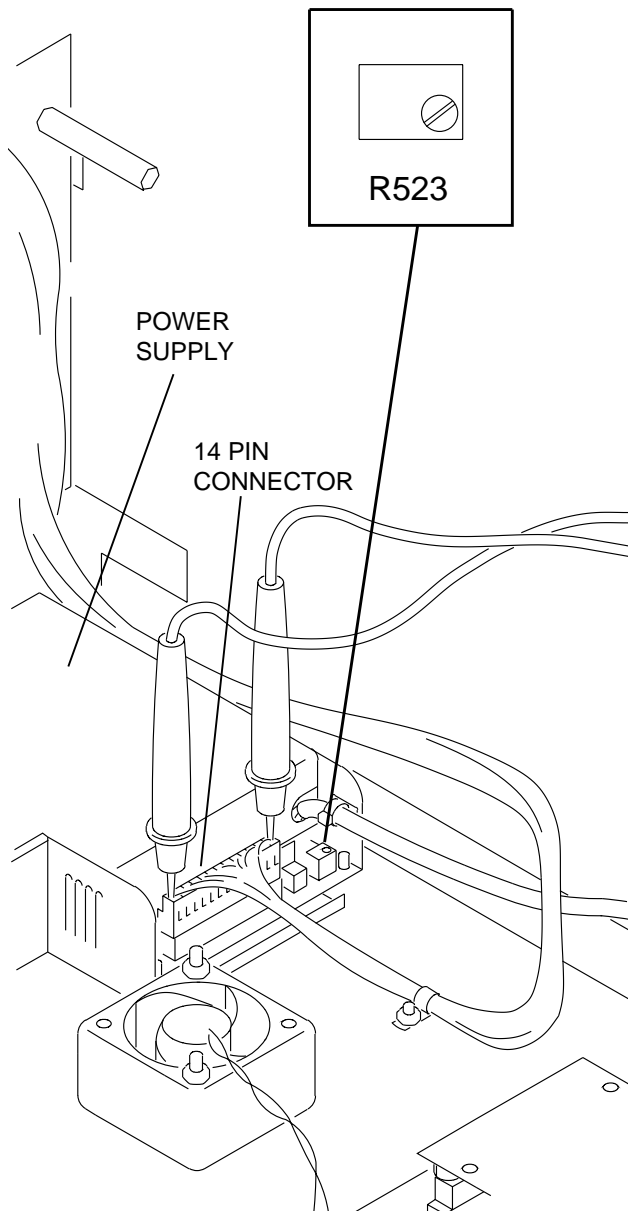
- [1] Check the VOLTAGE SET•POINT LABEL to obtain the correct voltage.

To Adjust:

A087_0193BCB
A087_0193BC

 **Important**

If the SET•POINT LABEL is not available, do the adjustment for the Density for the THERMAL HEAD. See Page 22.



[1] Do this adjustment when:

- a new THERMAL HEAD, CONTROLLER BD, or POWER SUPPLY is installed.
- a density change is observed.

[2] Set the DIGITAL VOLT METER (DVM) to DC voltage.

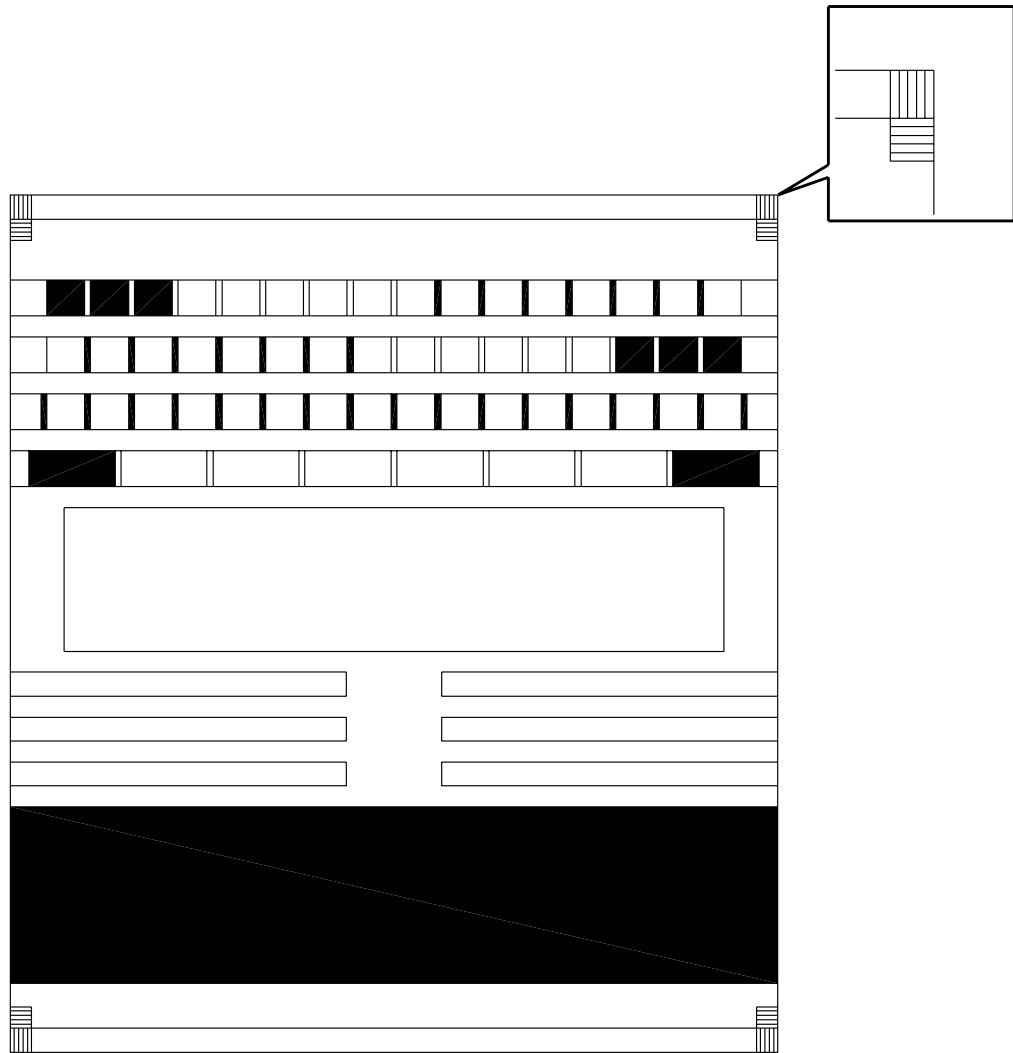
[3] Connect:

- red PROBE of the DVM to any red wire of the 14-PIN CONNECTOR
- black PROBE to any black wire of the 14-PIN CONNECTOR

[4] Adjust R523 on the POWER SUPPLY to the voltage on the VOLTAGE SET•POINT LABEL.

Density for the THERMAL HEAD

Adjustment Specification



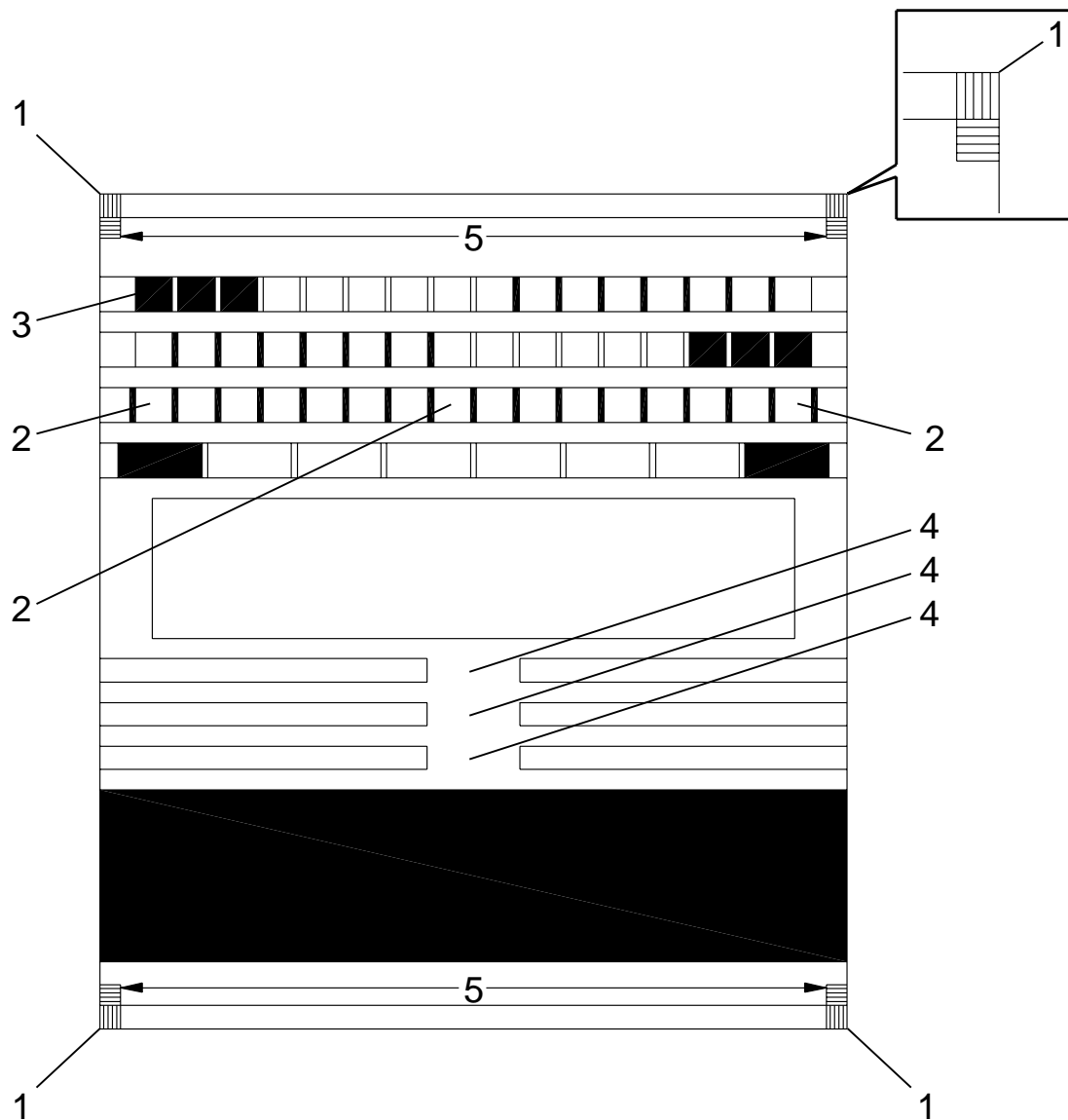
A087_5012DC

Purpose:	To set the density for the THERMAL HEAD.
Specification:	0.955 ± 0.1 MAGENTA/GREEN
Special Tools:	REFLECTIVE DENSITOMETER
Prerequisites:	Make a test print of the ENGINE.
Postrequisites:	Make a test print of the ENGINE.

To Check:

- [1] Check the density on the REFLECTIVE RECEIVER.

To Adjust:



A087_5012DCA
A087_5012DC

[1] Adjust the voltage on the POWER SUPPLY so the density reads 0.955 ± 0.1 MAGENTA/GREEN.

[2] Measure the density in 3 areas:

- left on ROW 2
- center on ROW 2
- right on ROW 2

THERMAL HEAD LOAD GAP

Adjustment Specification

Purpose:	To decrease STRETCH and have correct transport for the RECEIVER and DONOR.
Specification:	0.080 ± 0.010 in.
Special Tools:	HEAD LOAD GAP TOOL TL-5258
Prerequisites:	Remove: <ul style="list-style-type: none">• DOOR COVER - see Page 39• CONTROLLER ENCLOSURE AND DRAWER AY - see Page 63
Postrequisites:	Make a test print for the correct operation.

To Check:

- [1] Check that the alignment for the BASE ENCLOSURE is correct. See the adjustment for the BASE ENCLOSURE WALLS, Page 36.
-

To Adjust:



Warning

Dangerous Voltage

- [1] Energize the PRINTER.
- [2] Enter the diagnostics for the ENGINE. See the “LCD - Diagnostics” Section in the DIAGNOSTICS, Publication No. DG3179-1.
- [3] Close the DOOR.
- [4] Advance to:
 - (a) “DIAG: HEAD TEST”
 - (b) “HEAD: LOAD”; press SETUP/SELECT BUTTON to move the THERMAL HEAD to the load position.
 - (c) Press SETUP/SELECT BUTTON again to move the THERMAL HEAD to the full load position.

DONOR SENSOR

Adjustment Specification

Specification	LED	Voltage
Adjustment	BLUE	4.40 ± 0.05 V DC on yellow DONOR
Adjustment	GREEN - PS4 only	3.9 ± 0.05 V DC on cyan DONOR
Adjustment	GREEN 8670 and EI 8651 only	4.4 ± 0.05 V DC on cyan DONOR
Operating - Final Check	BLUE	$4.40 - 0.5 + 0.37$ V DC on yellow DONOR < 0.3 V DC on cyan DONOR
	GREEN - PS4 only	3.9 ± 0.2 V DC on cyan DONOR
	GREEN- 8670 and EI 8651 only	4.4 ± 0.2 V DC on cyan DONOR

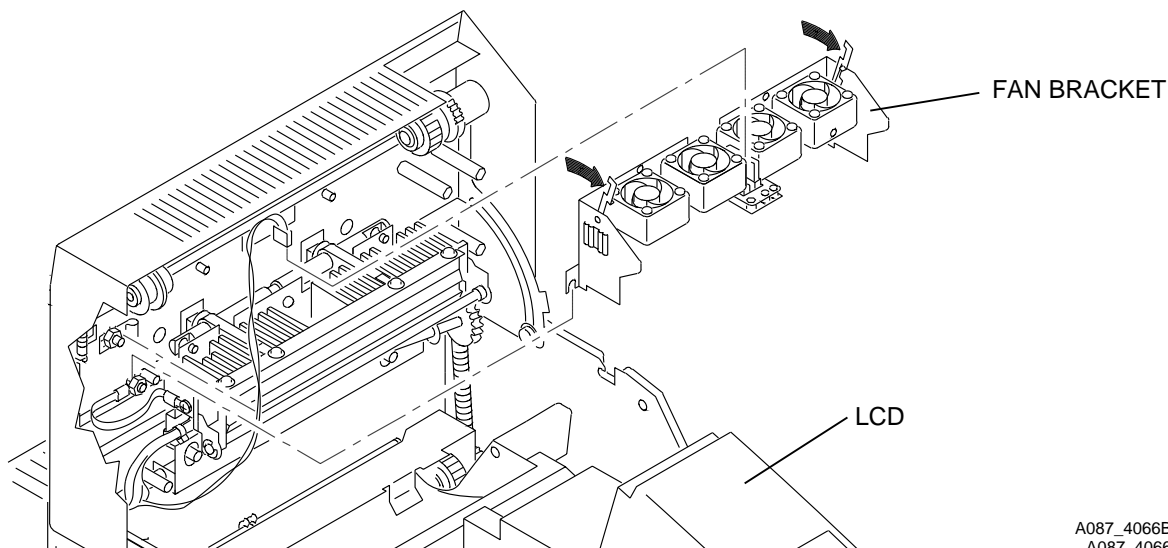
Purpose:	To set the correct specifications.
Specification:	See the specifications for the BLUE and GREEN LEDs.
Special Tools:	None
Prerequisites:	The DONOR and the DOOR COVER must be installed.
Postrequisites:	Make test prints to check for correct operation.

To Check:

[1] Check for the correct specifications.

To Adjust:

[1] To do the adjustment, use only yellow, magenta, cyan (YMC) or yellow, magenta, cyan, laminate (YMCL).



A087_4066BCB
A087_4066BC

BLUE LED

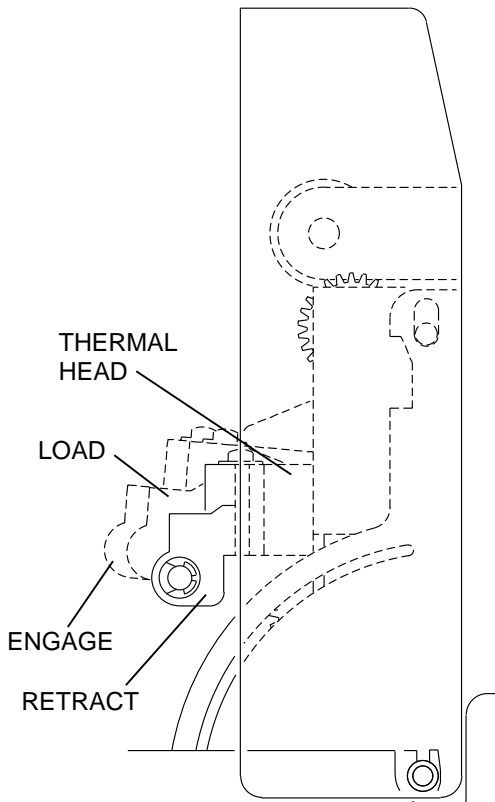
- [2] Enter the diagnostics. Select the test for the DONOR.
- [3] Advance the DONOR until a not used patch of yellow DONOR covers the BLUE and GREEN LEDs on the FAN BRACKET.



Important

Do not acknowledge the "COLOR INDICATOR" on the LCD.

- [4] Close the DOOR.
- [5] Set the DVM to DC voltage.
- [6] Connect the following on the CONTROLLER BD. See Pages 68 and 70.
 - red PROBE of the DVM to TP8, PIN 6
 - black PROBE of the DVM to TP4, PIN 6
- [7] Adjust R64 to 4.40 ± 0.05 V DC.
- [8] If you can adjust R64 to 4.40 ± 0.05 V DC, go to the adjustment for the GREEN LED. See Step 25.
- [9] If you cannot adjust R64 to 4.40 ± 0.05 V DC, do Steps 10 to 24.



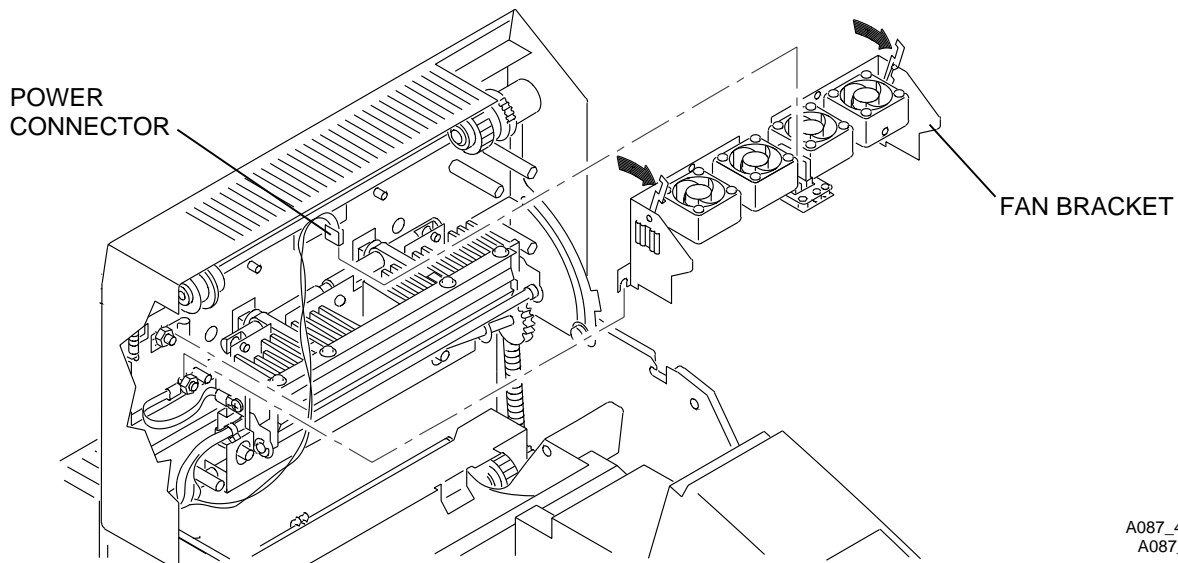
A114_0013GCB
A114_0013GC

- [10] Open the DOOR. Remove the DONOR.
- [11] Select "DIAG: HEAD TEST". See Publication No. DG3179-1.
- [12] Place the THERMAL HEAD in the engage position.
- [13] Observe the movement of the THERMAL HEAD. The THERMAL HEAD should move from the RETRACT position to the ENGAGE position.

Warning

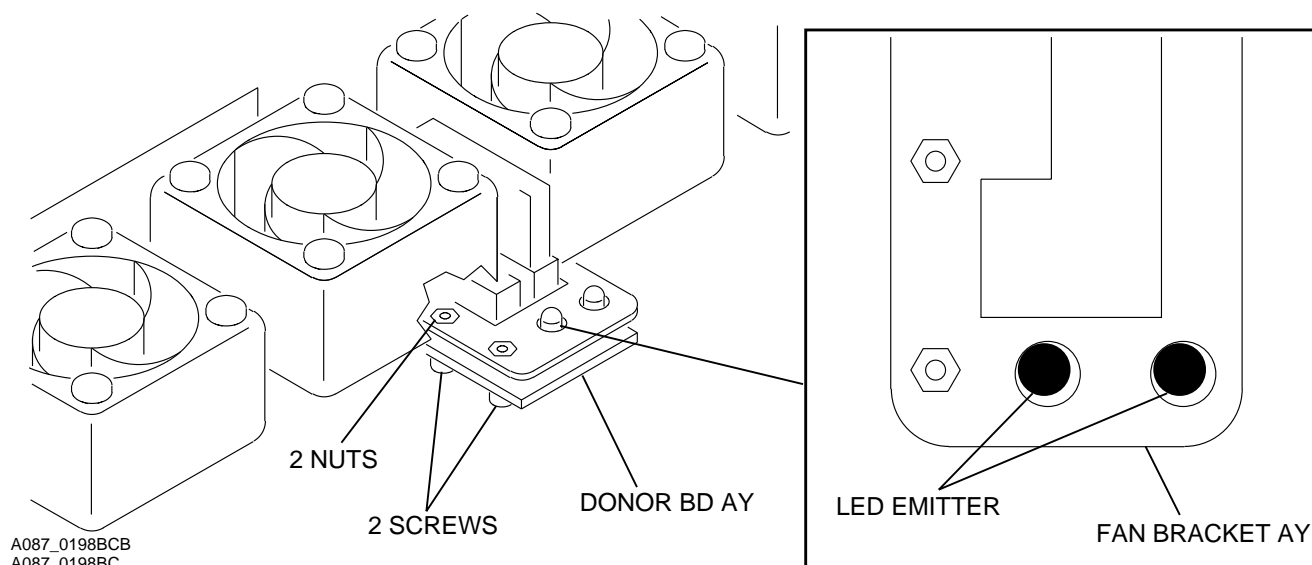
Dangerous Voltage

- [14] Do this procedure again to check that the THERMAL HEAD is in the engage position.
- [15] De-energize the PRINTER when the THERMAL HEAD is in the ENGAGE position.



A087_4066BCC
A087_4066BC

- [16] Remove the POWER CONNECTOR from the FAN BRACKET.



[17] Loosen the 2 NUTS on the left and right sides of the FAN BRACKET AY. Use the 5/16 in. NUT DRIVER.

[18] Remove:

- 2 5/16 in. NUTS in the center of the FAN BRACKET AY
- FAN BRACKET AY

[19] Loosen the 2 SCREWS holding the DONOR BD AY to the FAN BRACKET AY.

[20] Adjust the DONOR BD AY until the BLUE and GREEN LED EMITTERS are in the correct position on the FAN BRACKET AY.

[21] Tighten the 2 SCREWS.

[22] Install:

- FAN BRACKET AY
- POWER CONNECTOR



Warning

Dangerous Voltage

[23] Energize the PRINTER.

[24] Do the adjustment for the BLUE LED again.

GREEN LED

[25] Advance the DONOR until a not used patch of cyan DONOR covers the BLUE and GREEN LEDs on the FAN BRACKET.

[26] Close the DOOR.

[27] Connect the red PROBE of the DVM to TP8, PIN 5. See Pages 68 and 70.

[28] Adjust R66 to 4.40 ± 0.05 V DC for the 8670 PS THERMAL PRINTER and the EI 8651 DIGITAL COLOR PRINTER. See Pages 68 and 70.

[29] Adjust R66 to 3.90 ± 0.05 V DC for the PS4 PRINTER.

[30] If you cannot do the adjustments for R66 in Steps 28 and 29, do Steps 10 to 24 again.

Final Check



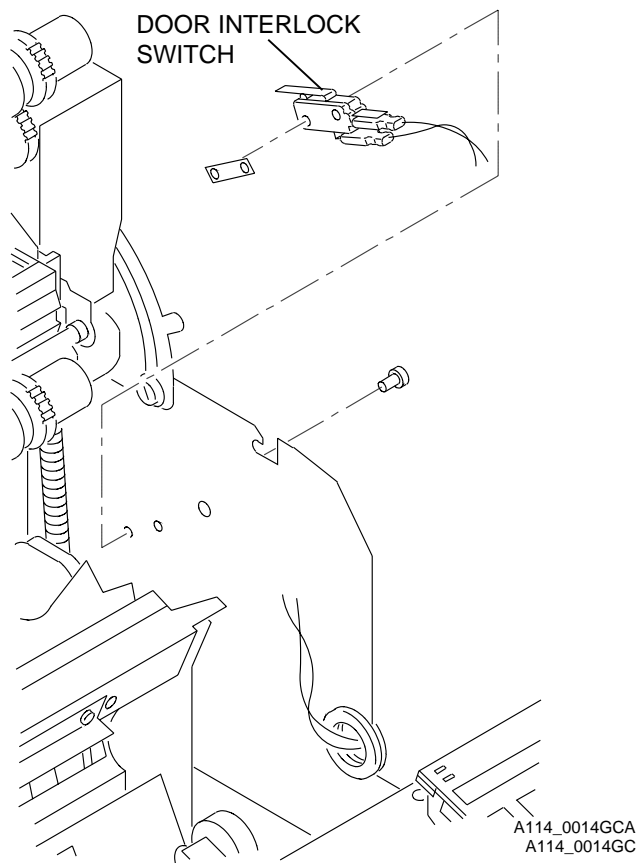
Important

Do Steps 31 to 43 for YMCL DONOR. Do Steps 37 to 43 for YMC DONOR.

- [31] Press the [SETUP BUTTON] to display “CYN” for cyan.
- [32] Advance the DONOR until “LAM” for laminate displays.
- [33] Open the DOOR.
- [34] Check that the patch covers the LEDs. The LEDs should be over a not used patch.
- [35] Close the DOOR.
- [36] Connect:
 - black PROBE, ground, to TP4, PIN 6
 - red PROBE to TP8, PIN 6 - TP8, PIN 6 should read < 0.25 V DC
- [37] Advance the DONOR until the “CLR=YEL” displays. TP8, PIN 6 should read > 3.2 V DC.
- [38] Connect the red PROBE to TP8, PIN 5. TP8, PIN 5 should read < 0.25 V DC.
- [39] Advance the DONOR until the “CLR=MAG/BLK” displays. TP8, PIN 5 should read > 3.2 V DC.
- [40] Connect the red PROBE to TP8, PIN 6. TP8, PIN 6 should read > 3.2 V DC.
- [41] Advance the DONOR until the “CLR=CYN” displays. TP8, PIN 6 should read < 0.25 V DC.
- [42] Connect the red PROBE to TP8, PIN 5. TP8, PIN 5 should read > 3.2 .
- [43] Leave diagnostics.

DOOR INTERLOCK SWITCH

Adjustment Specification

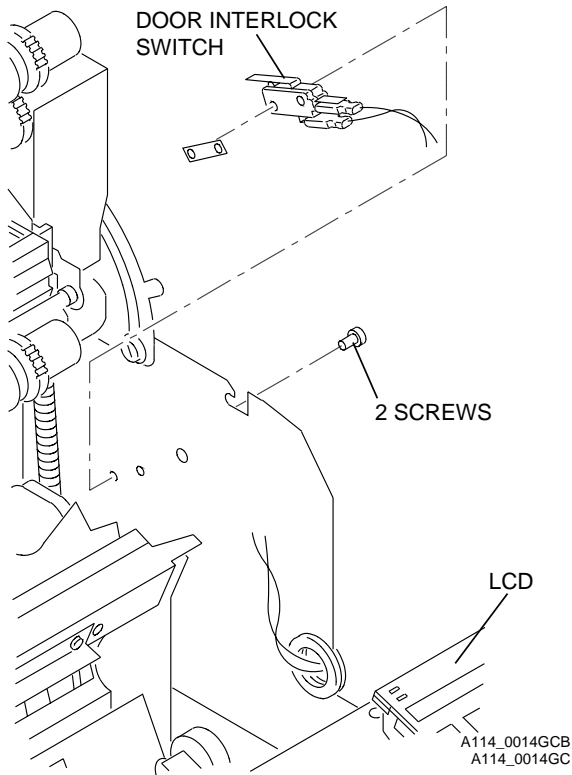


Purpose:	To make the DOOR INTERLOCK SWITCH operate correctly.
Specification:	The LCD will display "READY" or "CLOSE COVER".
Special Tools:	None
Prerequisites:	None
Postrequisites:	Check for correct operation.

To Check:

- [1] Check the LCD for any error messages when the DOOR is closed.

To Adjust:



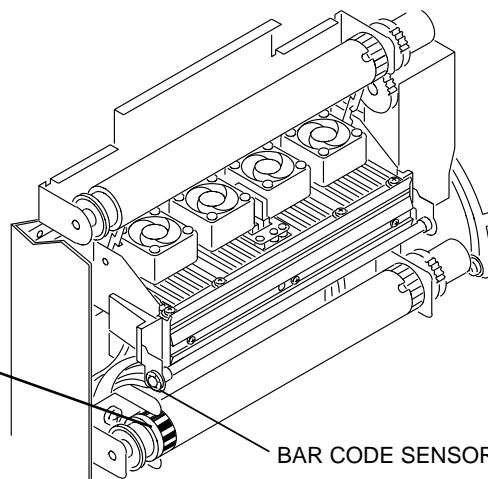
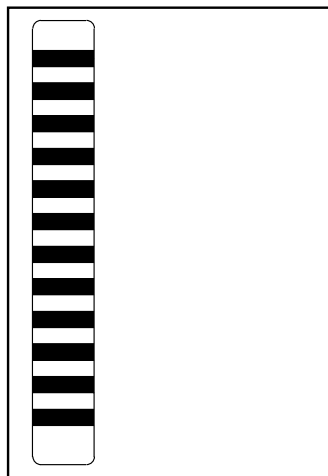
- [1] Install the DOOR INTERLOCK SWITCH.
- [2] Close the DOOR.

Warning
 Dangerous Voltage

- [3] Energize the PRINTER.
- [4] Check that the LCD displays either:
 - “READY”
 - “CLOSE COVER”
- [5] If the LCD displays “CLOSE COVER”:
 - (a) move the DOOR INTERLOCK SWITCH up.
 - (b) tighten the 2 SCREWS.
- [6] Open and close the DOOR 3 times to check that the LCD displays “READY”.

BAR CODE SENSOR

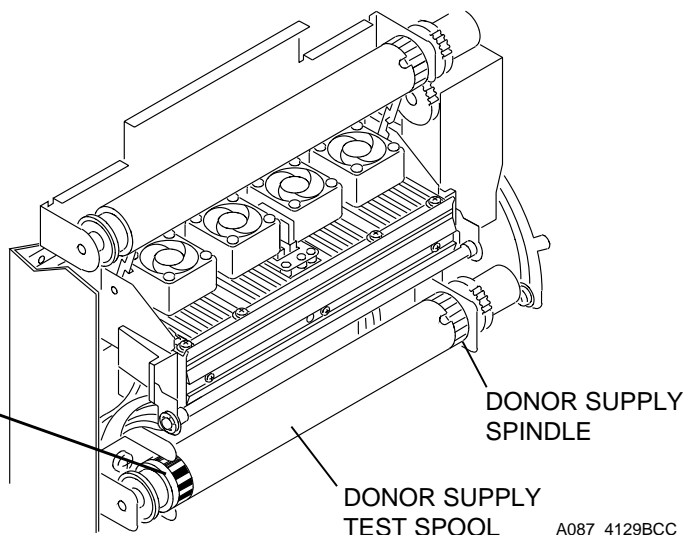
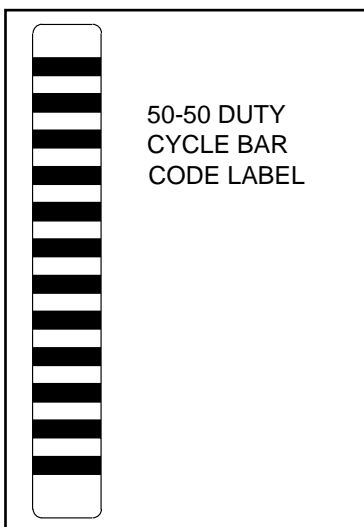
Adjustment Specification



- Purpose:** To make the DONOR operate correctly.
- Specification:** Component R16 - 2.50 ± 0.1 V DC
- Special Tools:** BAR CODE SENSING ADJUSTMENT TOOL KIT TL-4953
- Prerequisites:** Do the removal procedure for the CONTROLLER ENCLOSURE AND DRAWER AY. See Page 63.
- Postrequisites:** Check for correct operation.

To Check:

- [1] Check that the BAR CODE SENSOR is correct.

To Adjust:

A087_4129BCC
A087_4129BC

**Important**

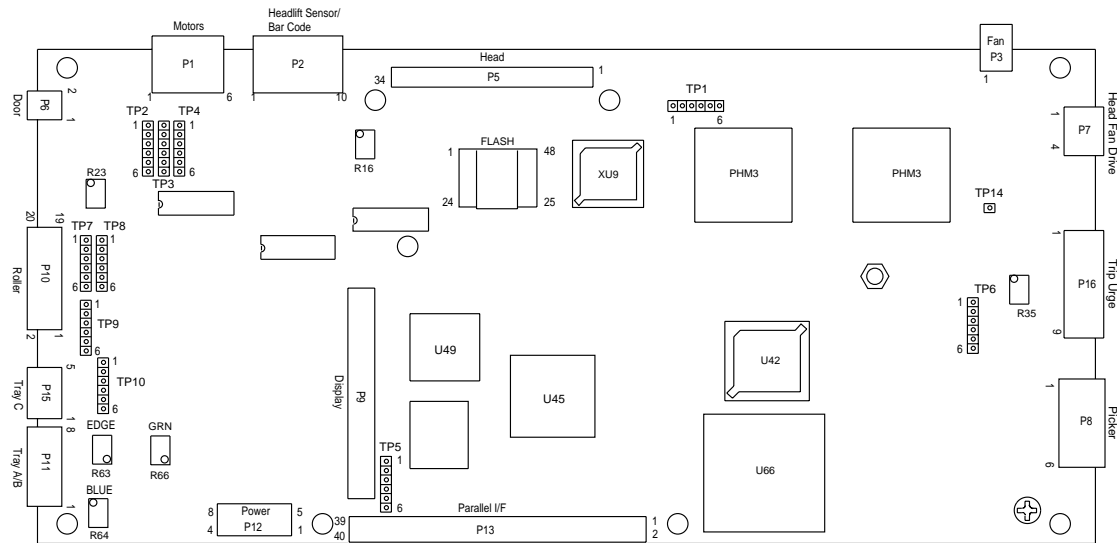
Do this adjustment when:

- a new CONTROLLER BD or DONOR SUPPLY BRACKET is installed.
- Error Codes 510 or 511 displays on the LCD.
- the message “Check RIBBON/DONOR” displays on the LCD.

**Warning**

Dangerous Voltage

- [1] De-energize the PRINTER.
- [2] Open and remove the DONOR if installed.
- [3] Install the DONOR SUPPLY TEST SPOOL that is included with the BAR CODE SENSING ADJUSTMENT TOOL KIT TL-4953.
- [4] Check that the 50-50 DUTY CYCLE BAR CODE LABEL is installed.
- [5] Rotate the DONOR SUPPLY TEST SPOOL until it is seated on the TABS of the DONOR SUPPLY SPINDLE.
- [6] Do the removal procedure for the CONTROLLER ENCLOSURE AND DRAWER AY. See Page 63.



A106_0015BC

[7] Locate TP4 on the CONTROLLER BD.

[8] Connect the DIGITAL VOLT METER (DVM) to:

- TP4, PIN 4 (+)
- TP4, PIN 6 (-)

[9] Remove CONNECTOR P13 from the CONTROLLER BD.

[10] For the EI 8651 DIGITAL COLOR PRINTER, set the S1 SWITCH to ENGINE mode. See Page 70.



Warning

Dangerous Voltage

[11] Energize the PRINTER.

[12] Close the DOOR.

[13] Enter the diagnostics. Scroll to “DIAG: DONOR TEST”.

[14] Press:

- (a) the SETUP/SELECT BUTTON
- (b) the CANCEL BUTTON to advance to “DNR: ADVANCE”
- (c) and hold the SETUP/SELECT BUTTON to rotate the SUPPLY SPOOL

[15] Adjust R16 to 2.50 ± 0.1 V DC at TP4, PIN 4.

[16] Exit the diagnostics.



Warning

Dangerous Voltage

[17] De-energize the PRINTER.

[18] Open the DOOR. Remove the DONOR SUPPLY TEST SPOOL.

[19] Install the DONOR, if removed.

[20] Connect the CONNECTOR P13 to the CONTROLLER BD.

[21] For the EI 8651 DIGITAL COLOR PRINTER only, set the S1 SWITCH to EXTERNAL mode.



Warning

Dangerous Voltage

[22] Energize the PRINTER.

RECEIVER TYPE SENSOR

Adjustment Specification

Purpose:	To identify the RECEIVER as a TRANSPARENCY or a reflective.
Specification:	<ul style="list-style-type: none"> • Reflective: 3.50 ± 0.05 V DC • TRANSPARENCY: < 0.5 V DC
Special Tools:	None
Prerequisites:	Open the CONTROLLER ENCLOSURE AND DRAWER AY. See Page 63.
Postrequisites:	Make a test print.

To Check:

- [1] Check the LCD for correct RECEIVER TYPE.

To Adjust:



Important

Do Steps 1 and 2, and 5 through 8 for the 8670 PS THERMAL PRINTER.
Do Steps 1 through 8 for the EI 8651 DIGITAL COLOR PRINTER.

- [1] Set the DIGITAL VOLT METER (DVM) to DC voltage.
- [2] Install the PAPER TRAY with a reflective RECEIVER.
- [3] For the EI 8651 DIGITAL COLOR PRINTER only, connect the following on the CONTROLLER BD. See Page 70.
- red (+) PROBE of the DVM to TP10, PIN 5
 - black (-) PROBE to TP4, PIN 6 (ground)
- [4] Adjust R70 until the DVM measures 1.0 ± 0.1 V DC.
- [5] For the 8670 PS THERMAL PRINTER, connect the following on the CONTROLLER BD. See Page 68.
- red PROBE to TP2, PIN 6
 - black (-) PROBE to TP4, PIN 6 (ground)
- [6] Adjust R23 for 3.50 ± 0.05 V DC.
- [7] Install a TRAY with 1 TRANSPARENCY.
- [8] Check:
- that the voltage is < 0.5 V DC
 - for correct operation

BASE ENCLOSURE WALLS

Adjustment Specification

- Purpose:** To make the PRINTER operate correctly.
- Specification:** The REAR WALL, SIDE WALL, and LOCKING TABS have no damage.
- Special Tools:** None
- Prerequisites:** Remove:
- DOOR COVER - see Page 39
 - ENCASUREMENT - see Page 40
- Open the CONTROLLER ENCLOSURE AND DRAWER AY. See Page 63.
- Postrequisites:** Make a test print to check for correct operation.

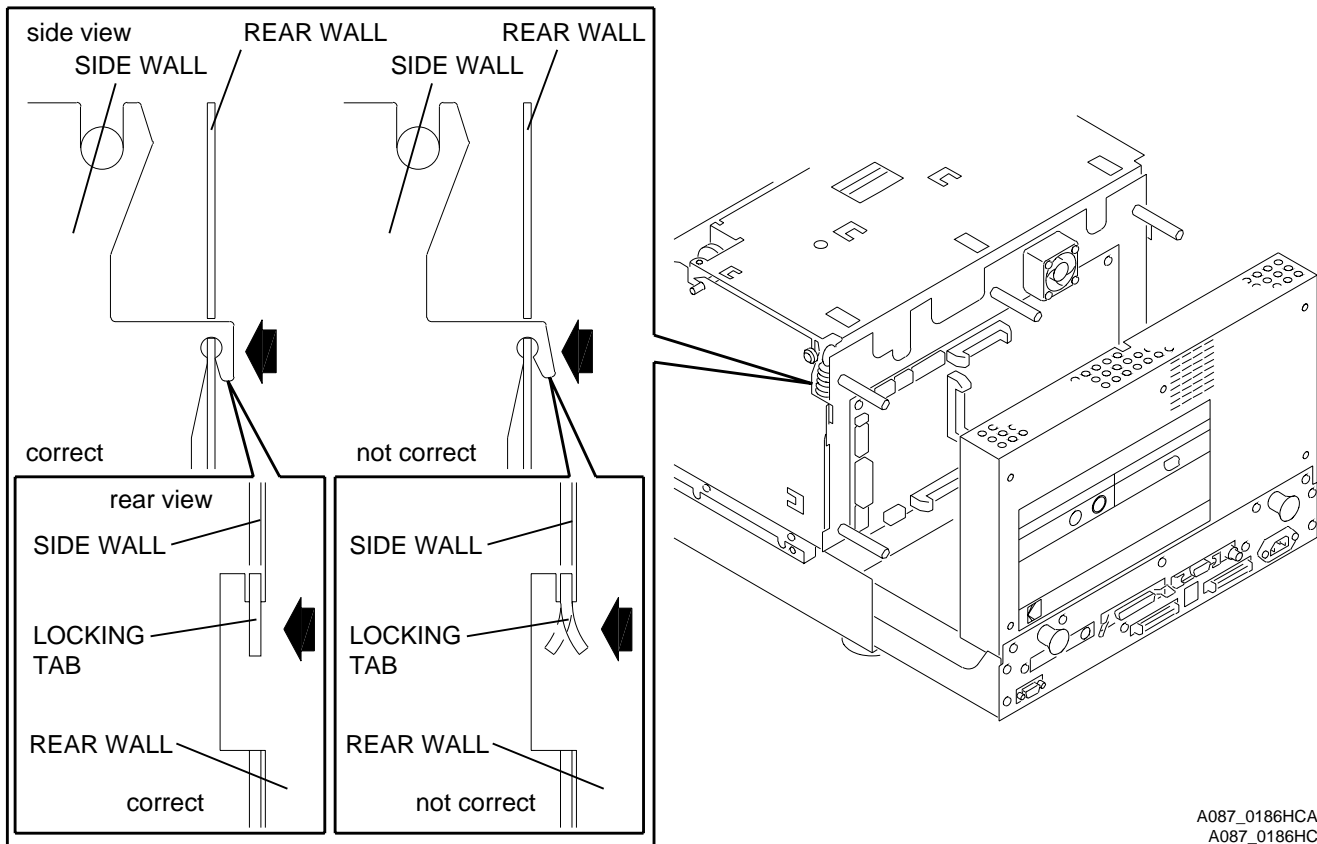
To Check:

[1] Check for damage in the REAR WALL, SIDE WALL or LOCKING TABS.

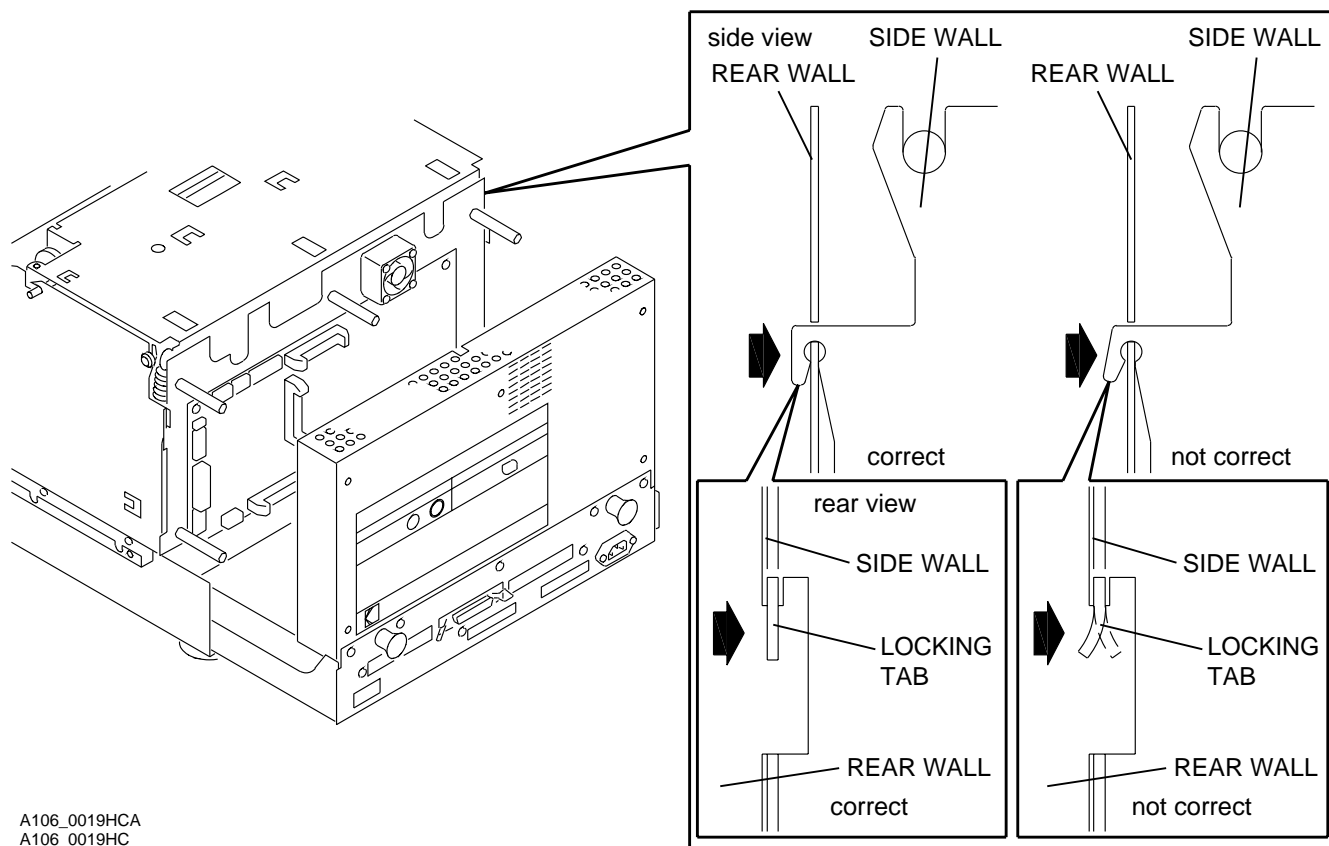
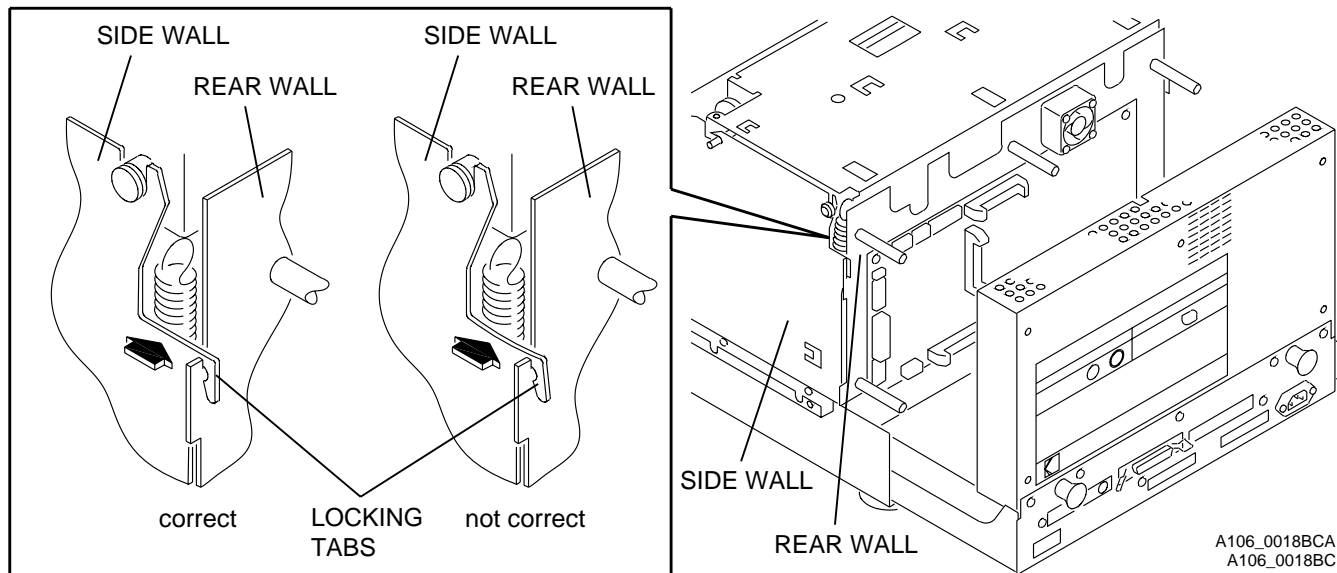
Note

If the REAR WALL, SIDE WALL, or LOCKING TABS are bent, remove and install a new BASE ENCLOSURE.

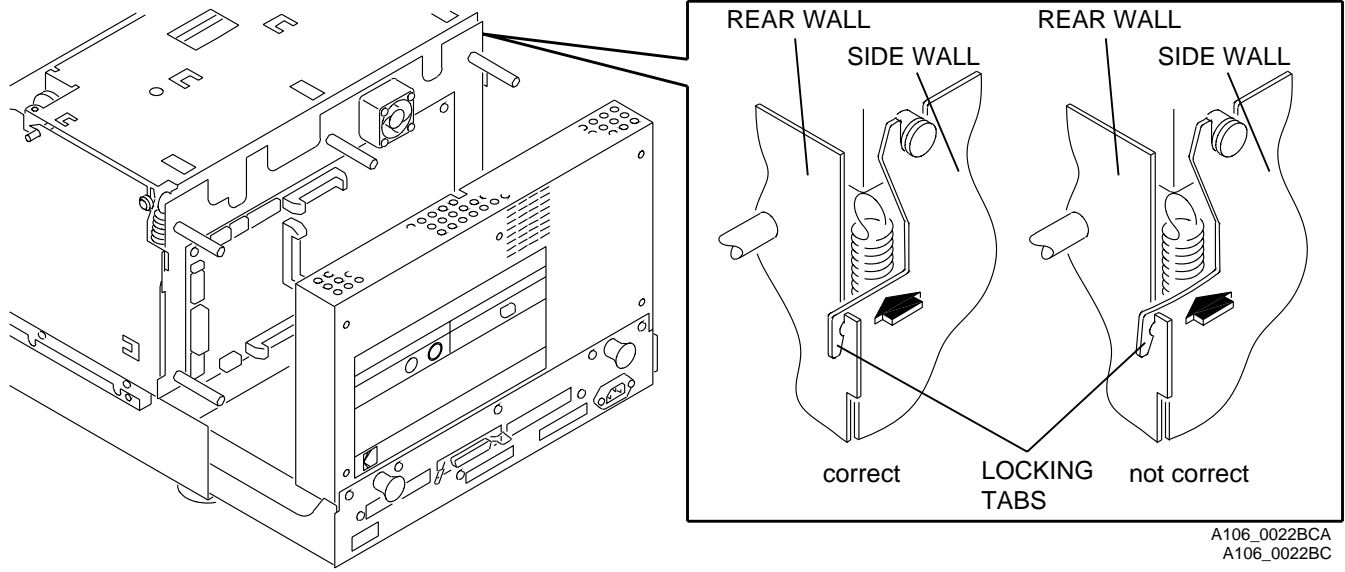
To Adjust:



[1] Check that the LOCKING TABS are not bent up or to the left or right sides.



[2] Check the left SIDE WALL that connects with the REAR WALL is flat.



[3] Check that the right SIDE WALL that connects with the REAR WALL is flat.

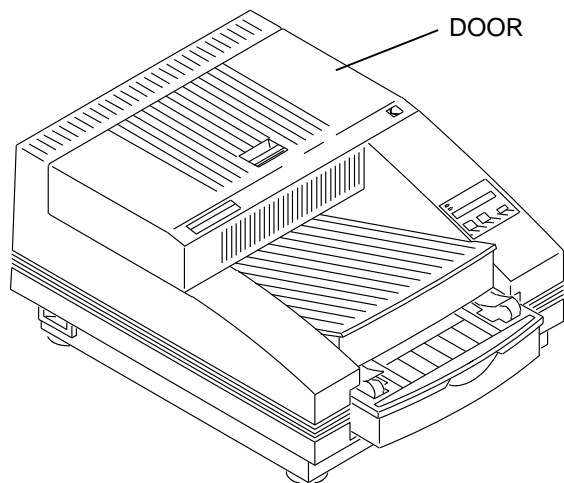
Section 2: Replacements

DOOR COVER

Prerequisites:

- [1] Remove the DONOR.

To Remove:



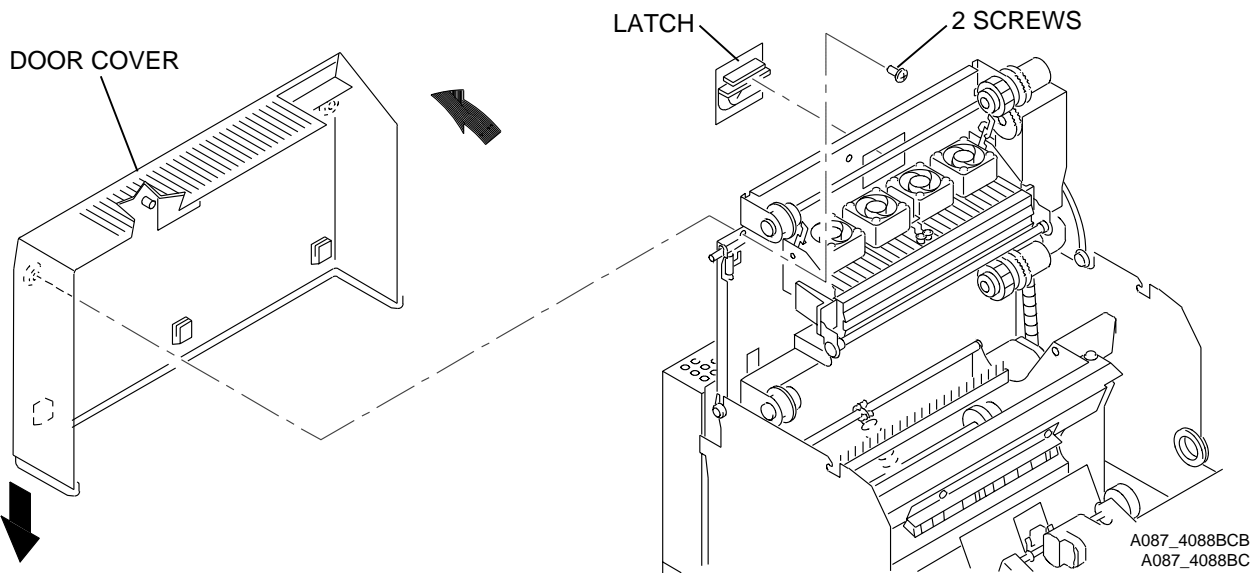
A114_0003ACB
A114_0003AC



Warning

Dangerous Voltage

- [1] De-energize the PRINTER.
[2] Open the DOOR and lift it up.



A087_4088BCB
A087_4088BC

[3] Remove:

- 2 SCREWS
- DOOR COVER
- LATCH

- [4] Check the 3 notches inside the DOOR COVER for damage. If the notches have damage, install a new DOOR COVER.

To Install:

- [1] Reverse the steps in the removal procedure.
-

Postrequisites:

- [1] Check that the DOOR opens and closes correctly.
-

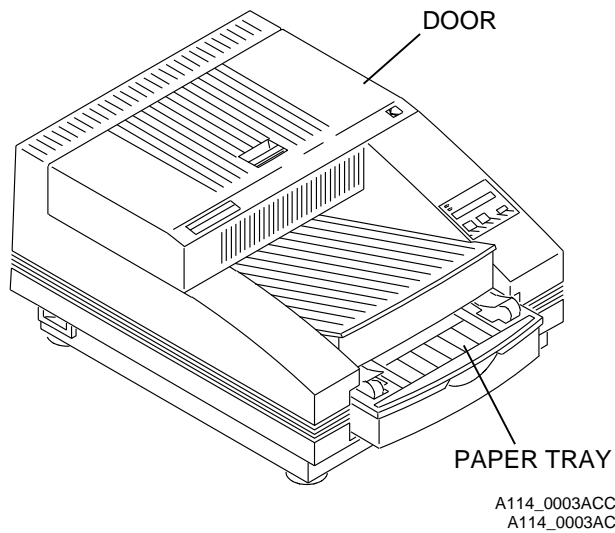
ENCASEMENT

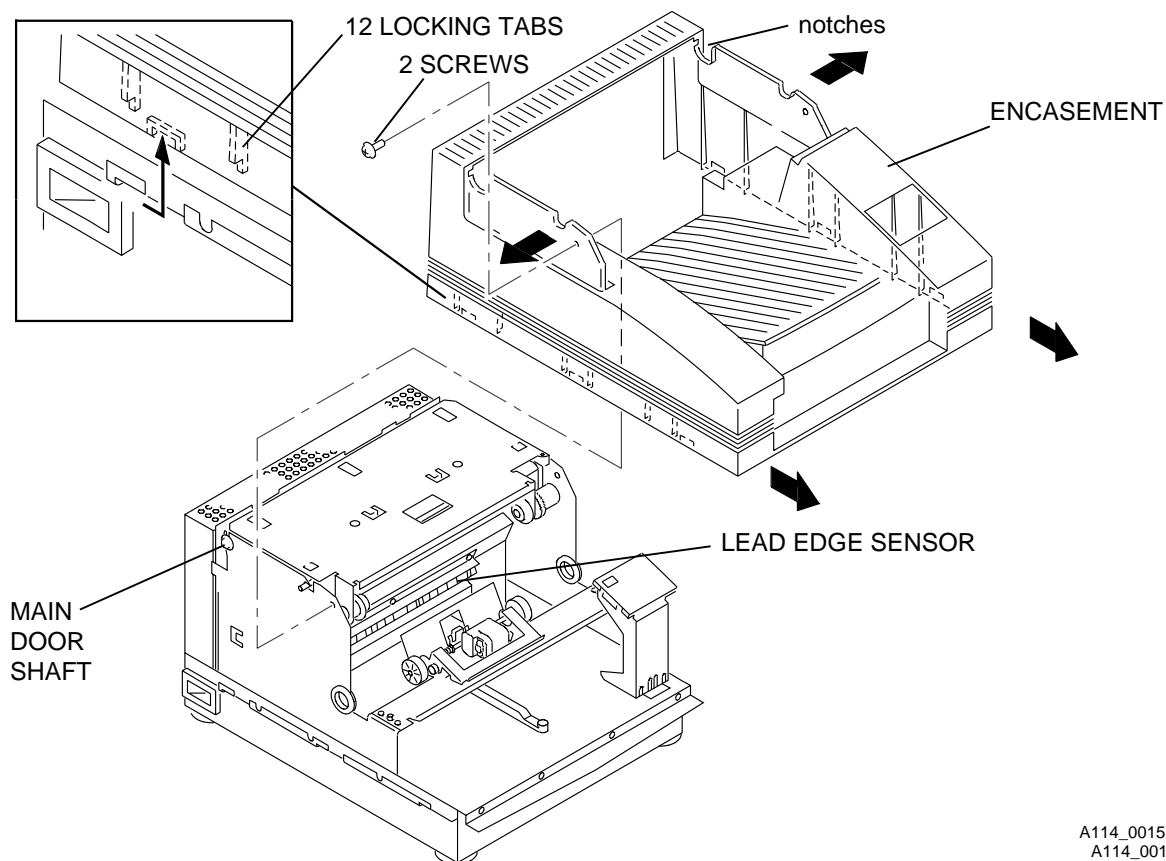
Prerequisites:

- [1] Remove:
 - DOOR COVER - see Page 39
 - PAPER TRAY
-

To Remove:

- [1] Close the DOOR.





A114_0015HCA
A114_0015HC

- [2] Remove the 2 SCREWS.

Caution

Observe the position of the LEAD EDGE SENSOR. Do not cause damage to the parts or wires on the right side of the ENCASEMENT.

- [3] Move the ENCASEMENT 1.25 cm (1/2 in.) forward.
 [4] Pull the ENCASEMENT up.
 [5] Align the notches in the left and right sides of the ENCASEMENT over the MAIN DOOR SHAFT.
 [6] Remove the ENCASEMENT.
 [7] Check the 12 LOCKING TABS for damage. If the LOCKING TABS have damage, install a new ENCASEMENT.

To Install:

Caution

Do not cause damage to the parts or wires on the right side of the ENCASEMENT.

- [1] Reverse the steps in the removal procedure.

Postrequisites:

- [1] Check that the ENCASEMENT is installed correctly.

MULTIPLE CONNECTORS

Prerequisites:

None

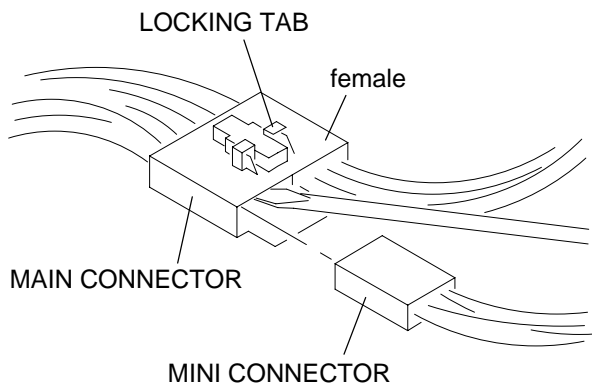
To Remove:



Important

Some of the CONNECTORS on the CONTROLLER BD are MULTIPLE CONNECTORS. MULTIPLE CONNECTORS are CONNECTORS of individual components that are inserted into a larger CONNECTOR, then inserted into the another CONNECTOR on the CONTROLLER BD. These CONNECTORS are:

- P1
- P2
- P4
- P6
- P9
- P10
- P11



A087_0077ACA
A087_0077AC

[1] Do the following procedure to disconnect a MULTIPLE CONNECTOR:

- (a) Press the LOCKING TAB.
- (b) Remove the MULTIPLE CONNECTOR from the CONTROLLER BD CONNECTOR.
- (c) With the LOCKING TAB in the up position, insert a small FLAT-BLADE SCREWDRIVER between the top of the MAIN CONNECTOR and the MINI CONNECTOR.
- (d) Remove the MINI CONNECTOR to allow access to its components.

To Install:

[1] Reverse the steps in the removal procedure.

Postrequisites:

None

Postrequisites:

None

2 TRAY TYPE SENSORS - 8670 PS THERMAL PRINTER and EI 8651 DIGITAL COLOR PRINTER

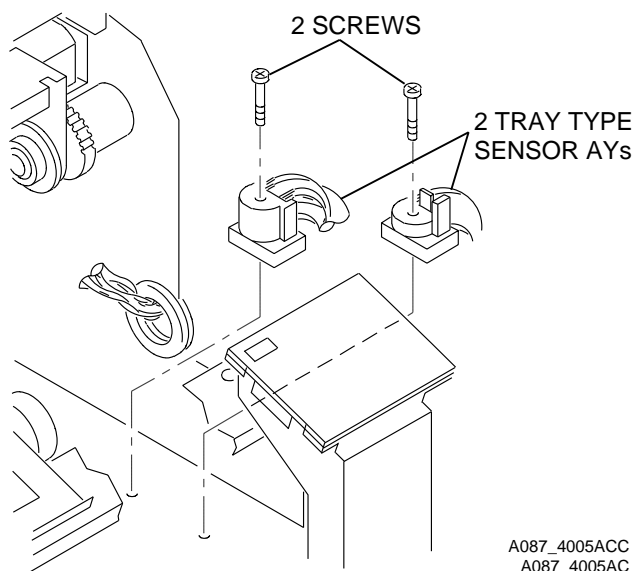
Prerequisites:

[1] Remove:

- DOOR COVER - see Page 39
- ENCASMENT - see Page 40

[2] Open the CONTROLLER ENCLOSURE AND DRAWER AY. See Page 63.

To Remove:



Important

It is not necessary to remove both of the TRAY TYPE SENSORS.

[1] Remove:

- 2 SCREWS
- TRAY TYPE SENSOR that has the malfunction

[2] Disconnect the following CONNECTORS from the CONTROLLER BD. See Page 68.

- P11
- P15

[3] Remove the HARNESS from P11 and P15.

To Install:

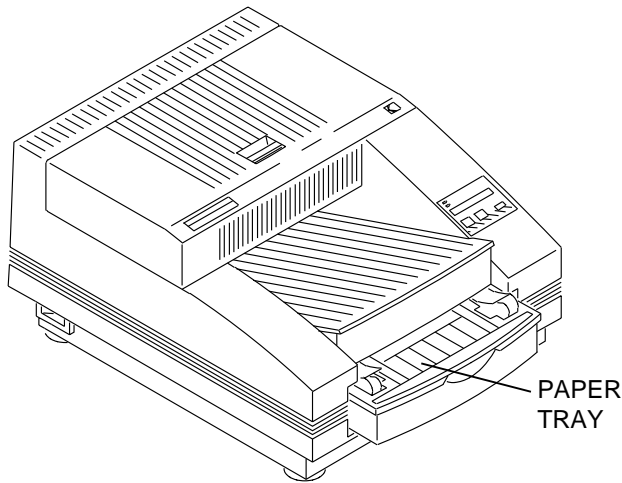
[1] Reverse the steps in the removal procedure.

Postrequisites:

[1] Check that the TRAY TYPE SENSOR detects the TRAY size correctly.

PICKER AY

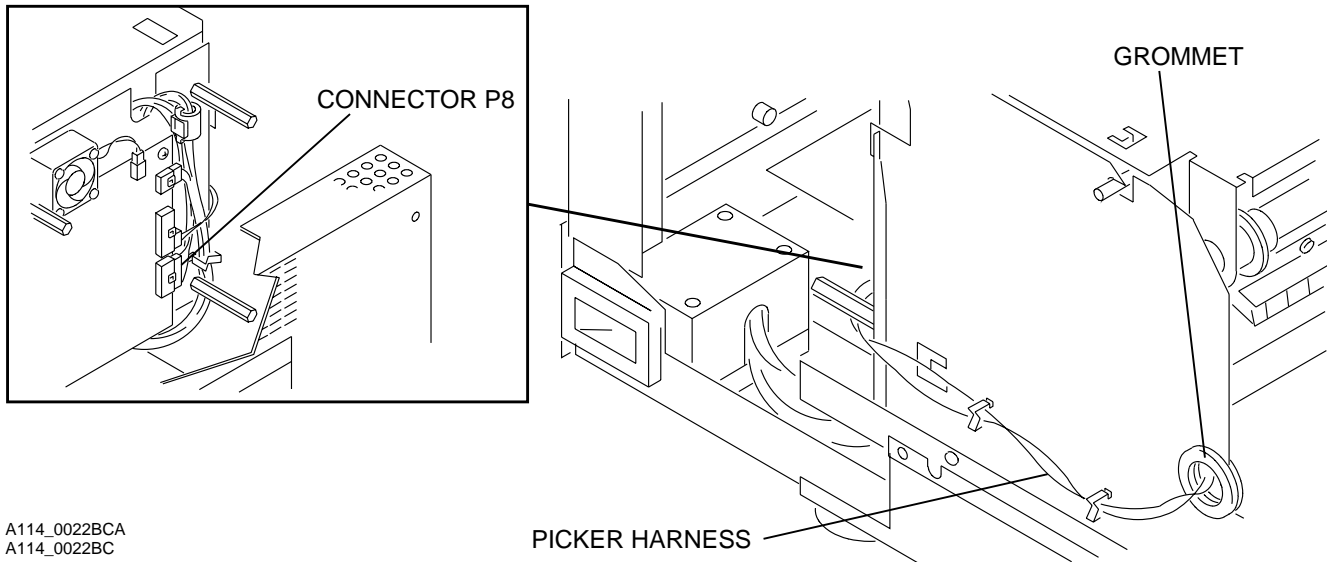
Prerequisites:



A114_0003ACA
A114_0003AC

- [1] Remove the PAPER TRAY.
- [2] Open the CONTROLLER ENCLOSURE AND DRAWER AY. See Page 63.
- [3] Remove:
 - DOOR COVER - see Page 39
 - ENCASEMENT - see Page 40

To Remove:



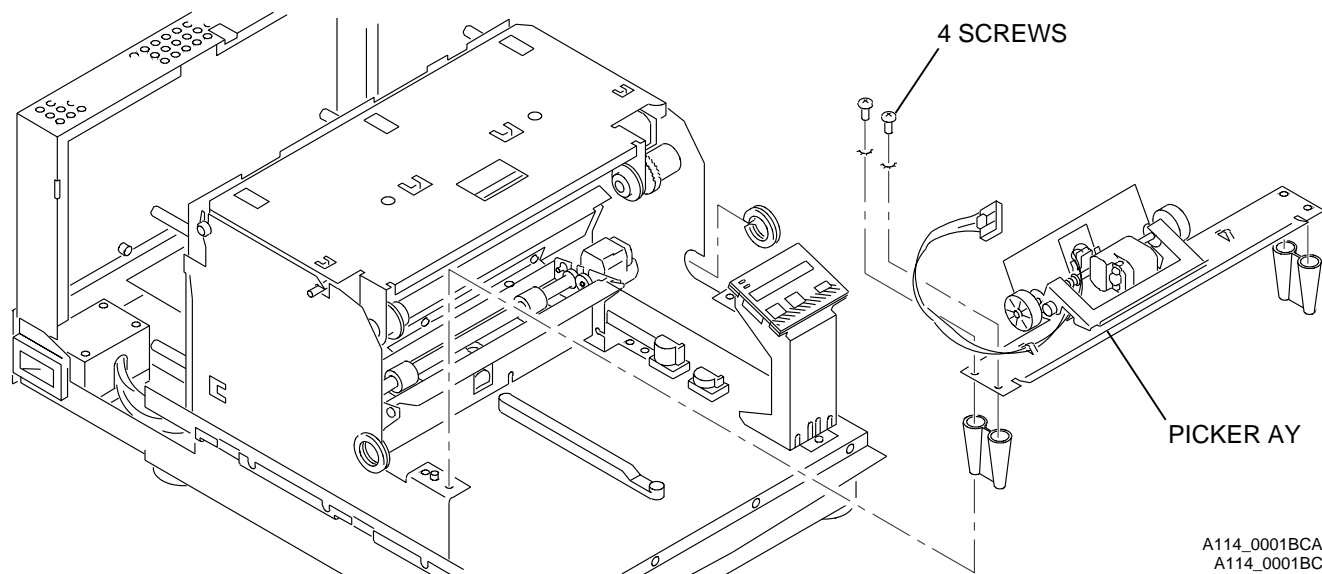
A114_0022BCA
A114_0022BC



Important

CONNECTOR P8 is on the left side of the CONTROLLER BD for the EI 8651 DIGITAL COLOR PRINTER. The PICKER HARNESS is on the right side of the BASE ENCLOSURE.

- [1] Remove:
 - CONNECTOR P8
 - PICKER HARNESS
 - GROMMET



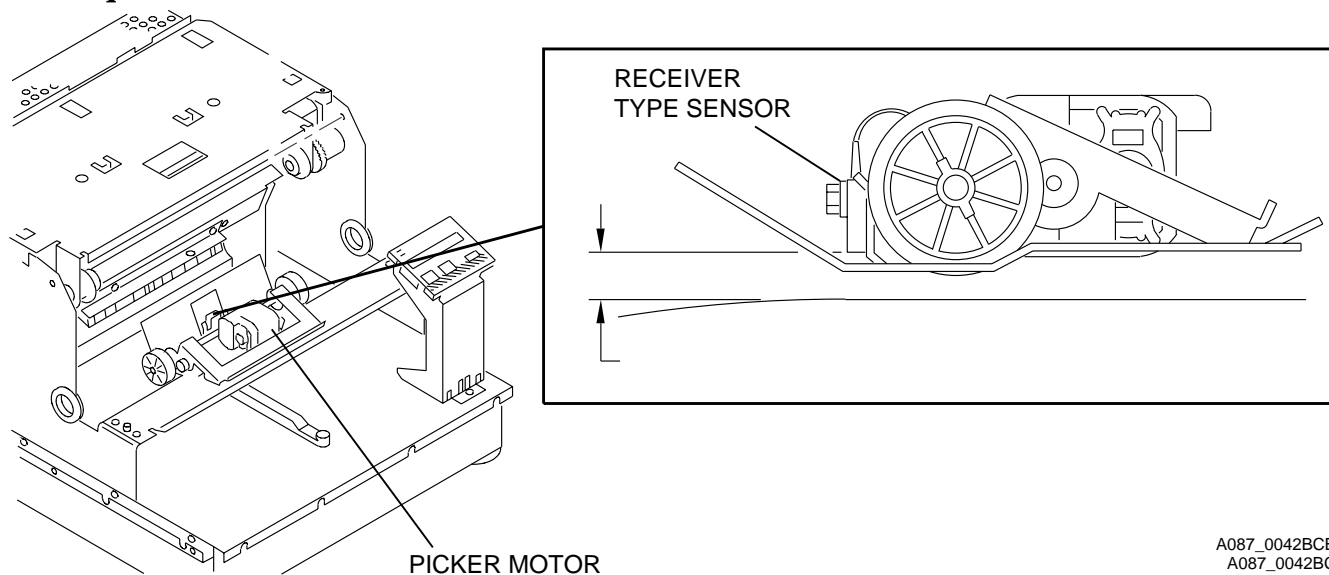
[2] Remove:

- 4 SCREWS
- PICKER AY

To Install:

- [1] Reverse the steps for the removal procedure.

Postrequisites:



[1] Adjust:

- PICKER PENETRATION - see Page 5
- RECEIVER TYPE SENSOR

[2] Do these diagnostic tests, see Publication No. DG3179-1:

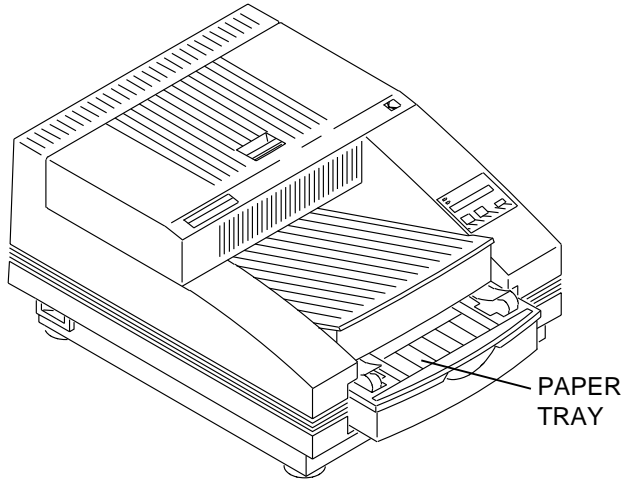
- “DIAG: RECEIVER, TRAY and TYPE”
- “PICK/EJECT”

ROLLER AY

Prerequisites:

Special Tools:

- LONG MAGNETIC SCREWDRIVER TL-4505
- T-15 TORX INSERT BLADE TL-3258



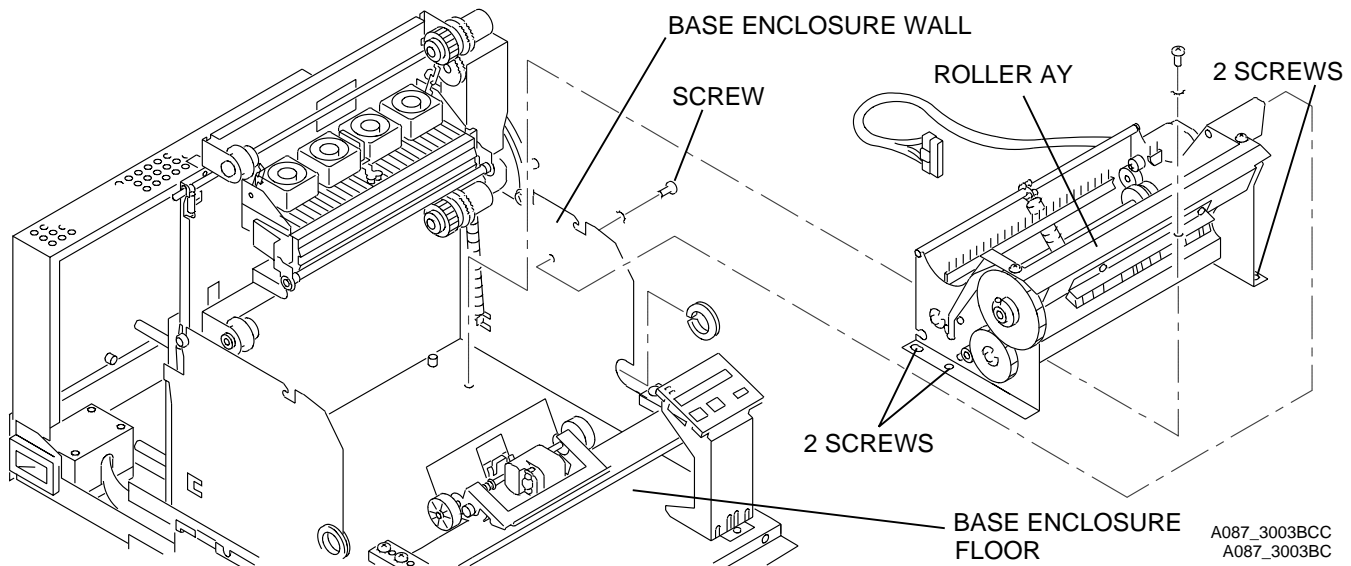
A114_0003ACA
A114_0003AC

[1] Remove:

- PAPER TRAY
- DOOR COVER - see Page 39
- ENCASEMENT - see Page 40

[2] Open the CONTROLLER ENCLOSURE AND DRAWER AY. See Page 63.

To Remove:



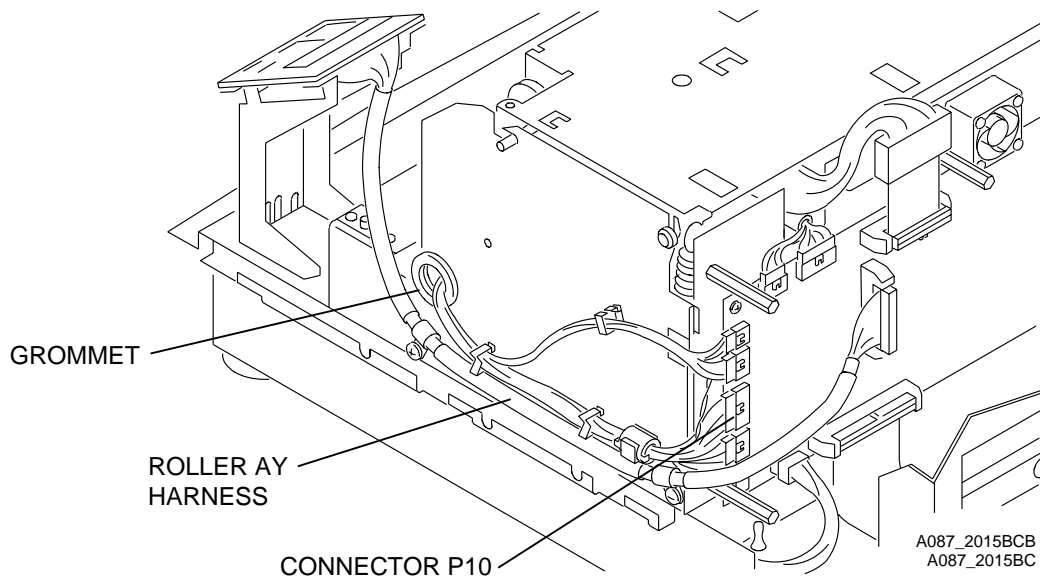
A087_3003BCC
A087_3003BC



Important

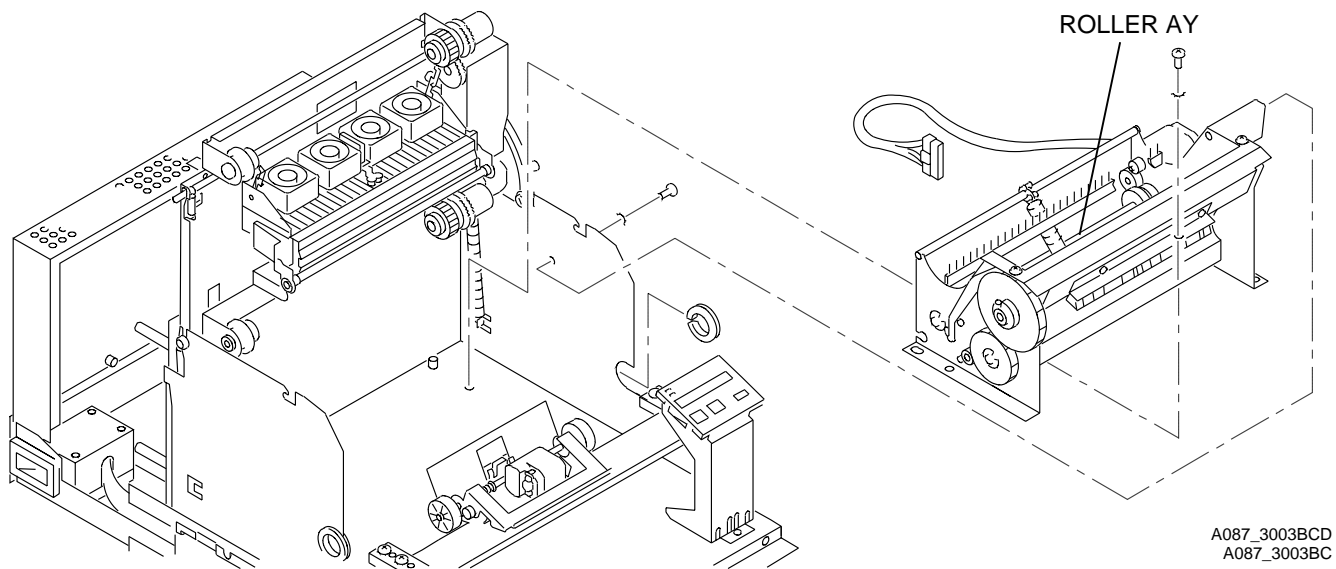
The ROLLER AY is not removed from the BASE ENCLOSURE FLOOR at this time. The graphic displays the ROLLER AY removed only to make the SCREWS visible.

- [1] Remove the SCREW holding the ROLLER AY to the right side of the BASE ENCLOSURE WALL.
- [2] Use the LONG MAGNETIC SCREWDRIVER TL-4505 and the T-15 TORX INSERT BLADE TL-3258 to remove:
 - 2 SCREWS from the right side
 - 2 SCREWS from the left side



[3] Remove:

- GROMMET
- ROLLER AY HARNESS
- CONNECTOR P10



[4] Remove the ROLLER AY.

To Install:

- [1]** Reverse the steps in the removal procedure.

Postrequisites:

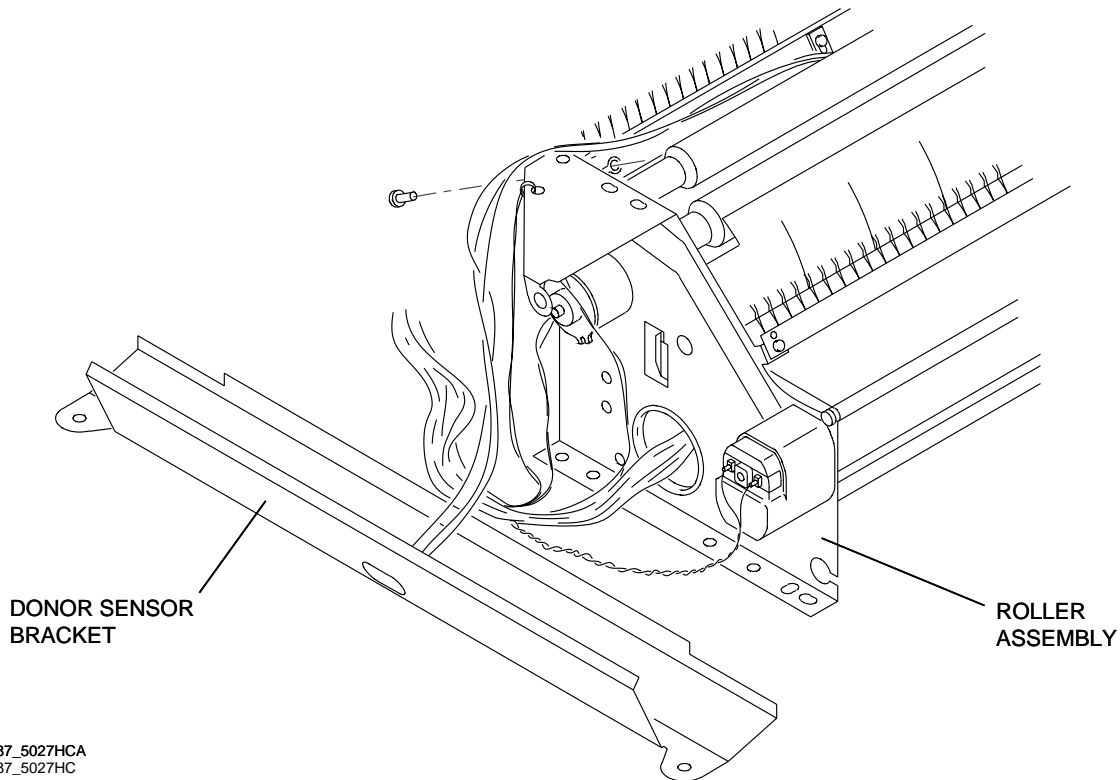
- [1] Adjust:
 - DONOR SENSOR - see Page 26
 - LEAD EDGE SENSOR - see Page 17
- [2] Do the following diagnostic tests. See Publication No. DG3179-1:
 - “PINCH”
 - “STEP MOTOR”
 - “PICK/EJECT”
- [3] Make a print to check for correct operation.
- [4] If the print has the STRETCH artifact, do these adjustment procedures:
 - ROLLER AY - see Page 13
 - DONOR SUPPLY BRACKET - see Page 8
 - THERMAL HEAD LOAD GAP - see Page 24

LEAD EDGE SENSOR BRACKET

Prerequisites:

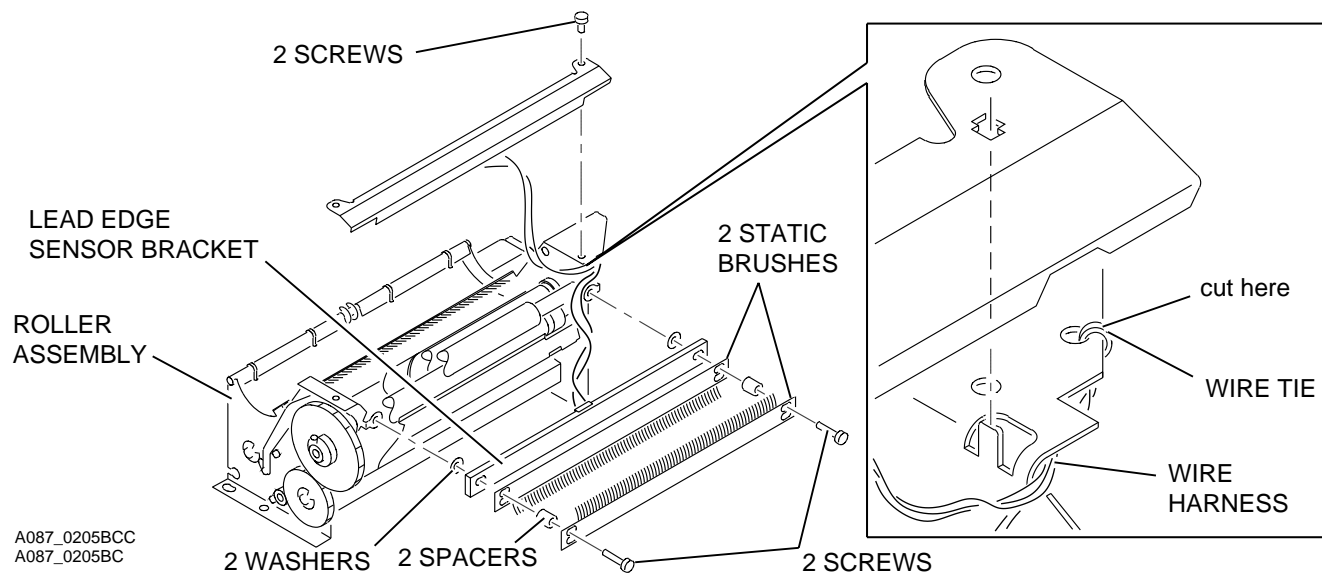
- [1] Remove the ROLLER AY. See Page 46.

To Remove:



A087_5027HCA
A087_5027HC

- [1] Remove and lift up the DONOR SENSOR BRACKET from the ROLLER AY. Place the BRACKET as indicated in the graphic.

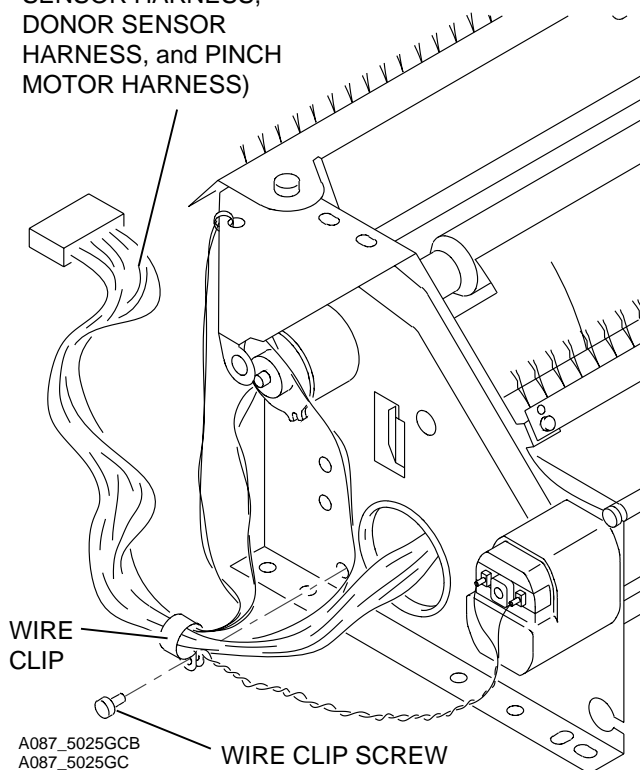


[2] Remove:

- 2 SCREWS holding the LEAD EDGE SENSOR BRACKET
- 2 SCREWS from the 2 STATIC BRUSHES
- front STATIC BRUSH
- 2 SPACERS
- back STATIC BRUSH
- 2 WASHERS

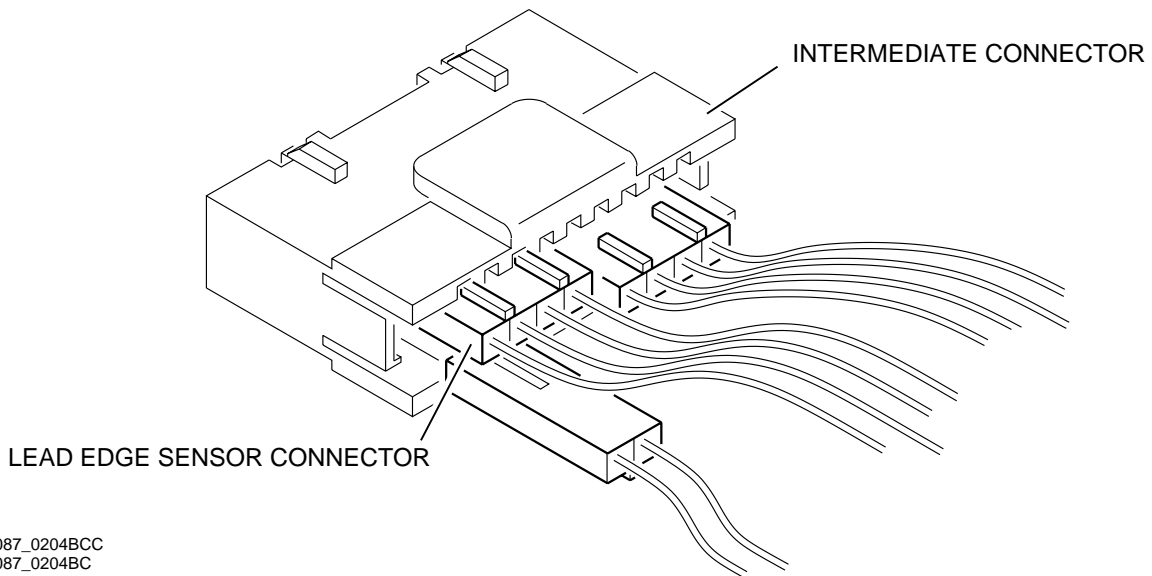
[3] Cut the WIRE TIE holding the WIRE HARNESS to the side of the ROLLER AY.

HARNESS
(Includes LEAD EDGE
SENSOR HARNESS,
DONOR SENSOR
HARNESS, and PINCH
MOTOR HARNESS)



[4] Remove:

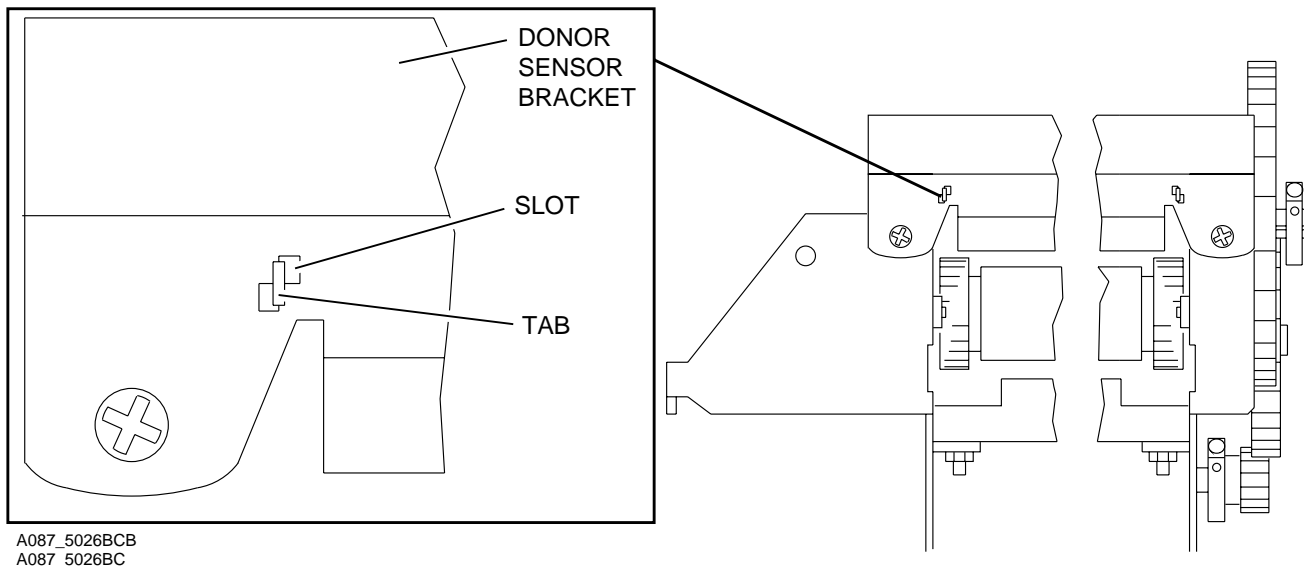
- WIRE CLIP SCREW holding the WIRE CLIP
- LEAD EDGE SENSOR HARNESS from the WIRE CLIP



A087_0204BCC
A087_0204BC

[5] Remove the LEAD EDGE SENSOR CONNECTOR from the INTERMEDIATE CONNECTOR.

To Install:



A087_5026BCB
A087_5026BC



Important

You must align the TAB into the SLOT of the DONOR SENSOR BRACKET.

[1] Reverse the steps in the removal procedure.

Postrequisites:

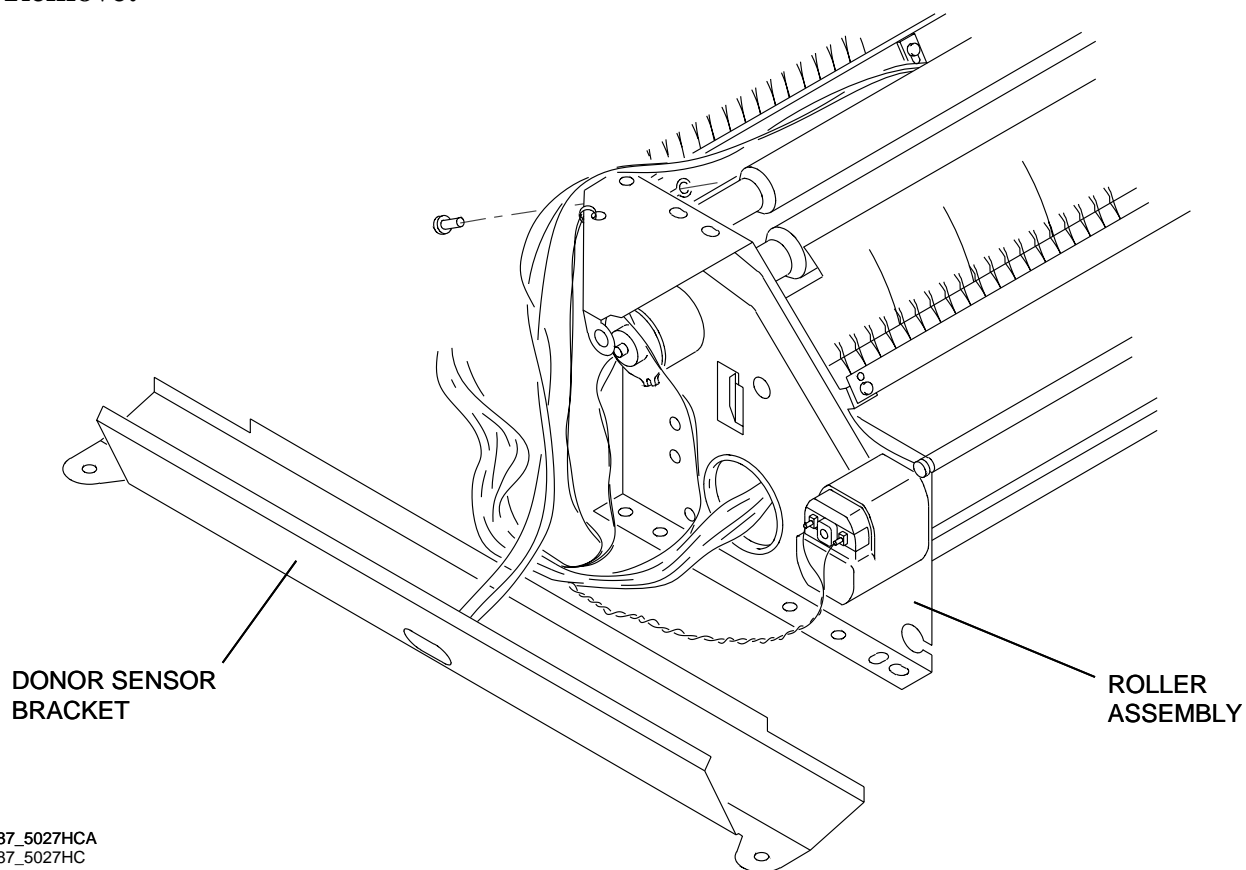
- [1] Do the following adjustments:
- LEAD EDGE SENSOR - see Page 17
 - DONOR SENSOR - see Page 26

DONOR SENSOR BRACKET

Prerequisites:

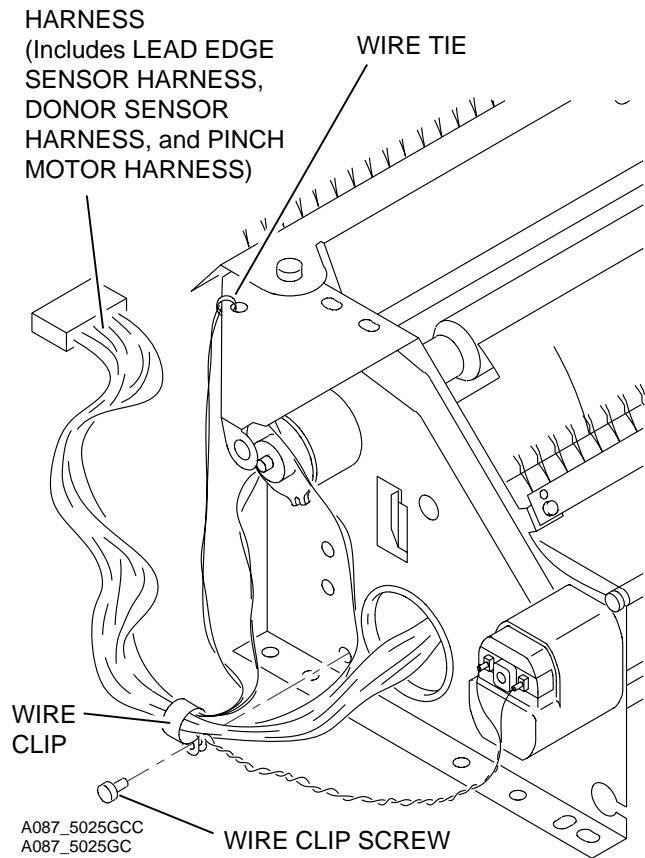
[1] Remove the ROLLER AY. See Page 46.

To Remove:

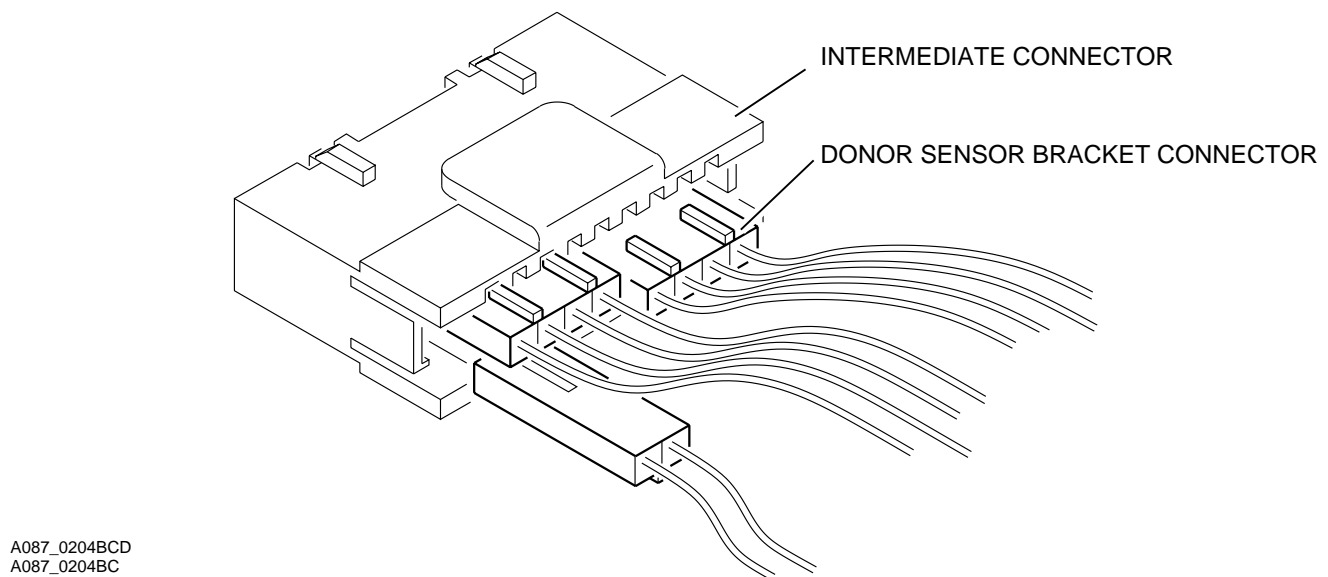


[1] Remove and lift up the DONOR SENSOR BRACKET from the ROLLER AY. Place the BRACKET as indicated in the graphic.

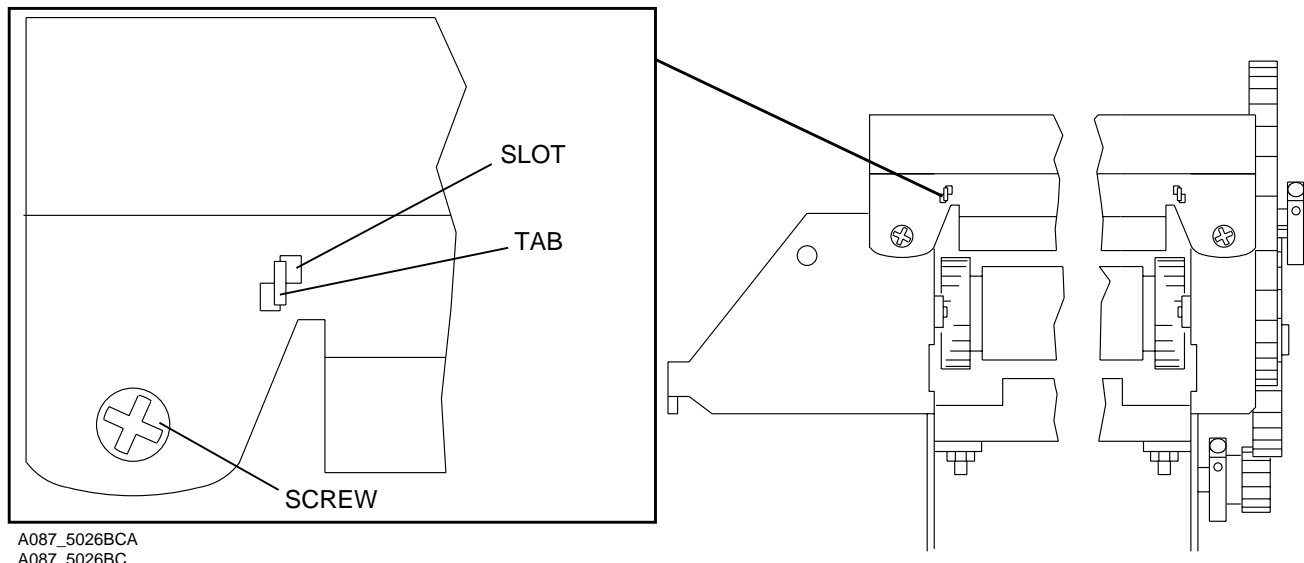
ADJUSTMENTS AND REPLACEMENTS



- [2] Remove the WIRE CLIP SCREW holding the WIRE CLIP.
- [3] Cut the WIRE TIE.
- [4] Remove the DONOR SENSOR HARNESS from the WIRE CLIP.



- [5] Remove the DONOR SENSOR BRACKET CONNECTOR from the INTERMEDIATE CONNECTOR.

To Install:**Important**

You must align the TAB into the SLOT of the DONOR SENSOR BRACKET.

- [1] Reverse the steps in the removal procedure.

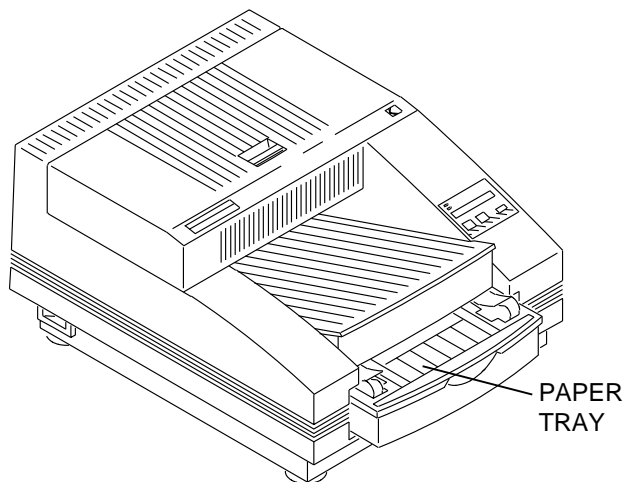
Postrequisites:

- [1] Do the adjustment for the DONOR SENSOR. See Page 26.

PINCH MOTOR and GEARS for the ROLLER AY**Prerequisites:**

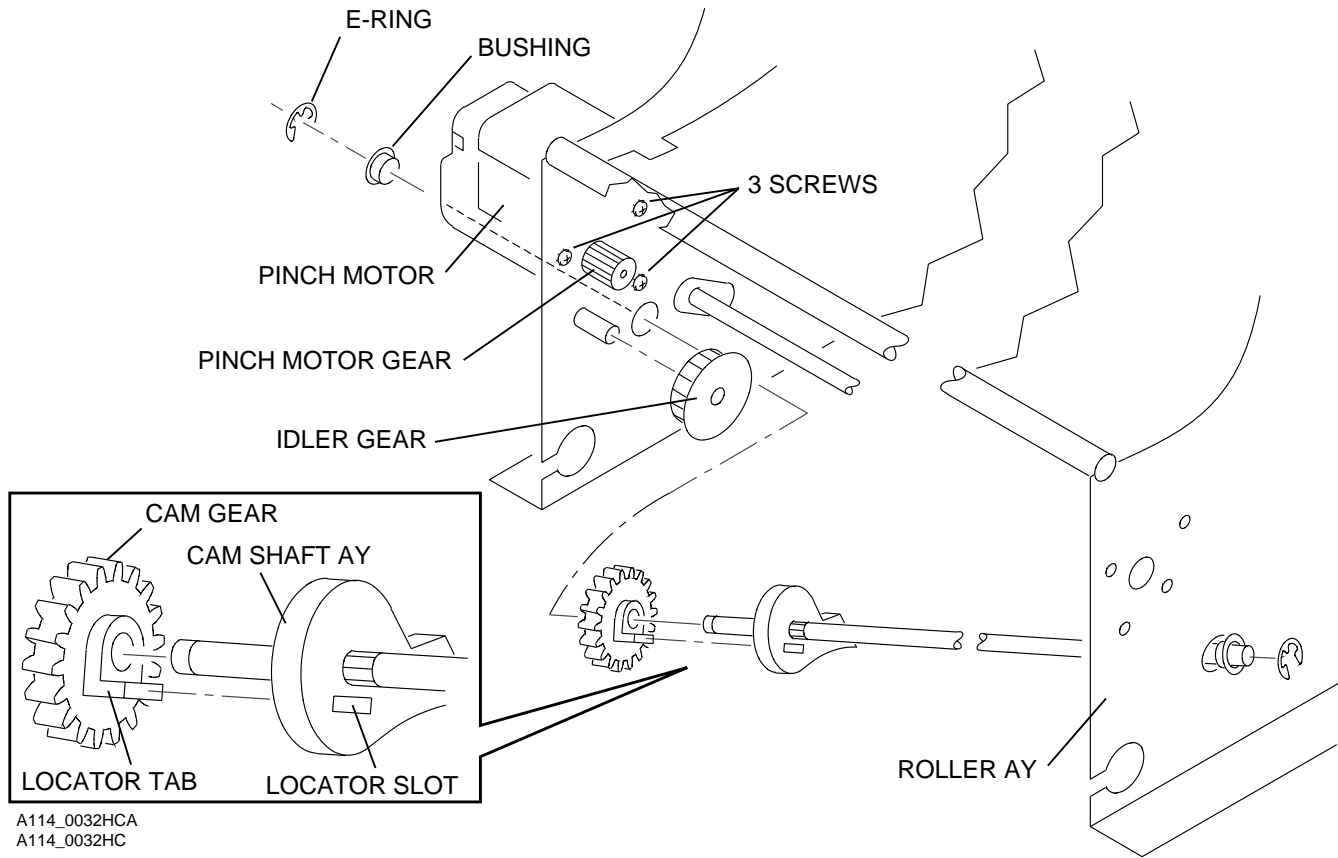
- [1] Remove:

- PAPER TRAY
- DOOR COVER - see Page 39
- ENCASMENT - see Page 40
- ROLLER AY - see Page 46



A114_0003ACA
A114_0003AC

To Remove:



A114_0032HCA
A114_0032HC

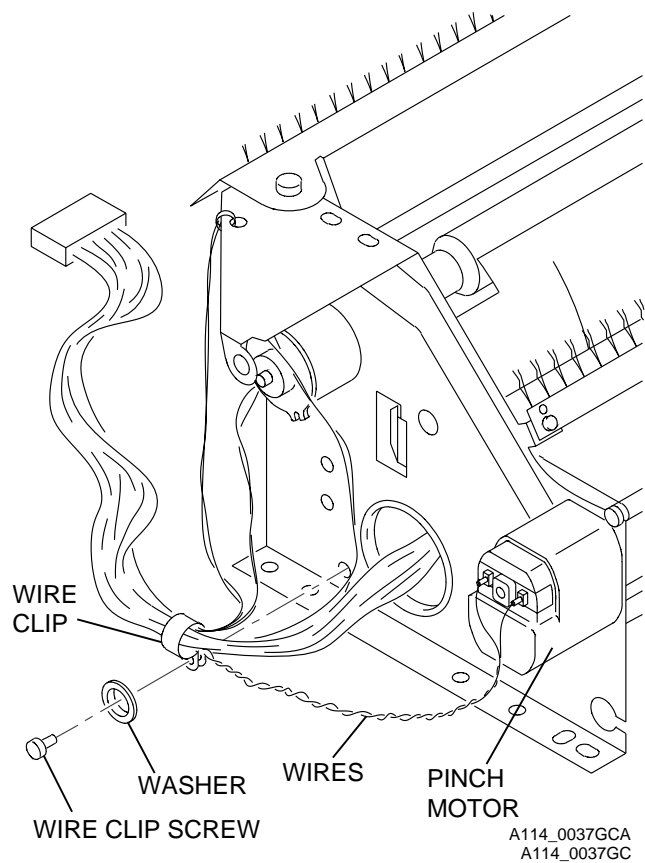
[1] Remove from the CAM SHAFT AY:

- E-RING
- BUSHING

[2] Move the CAM SHAFT AY to the right.

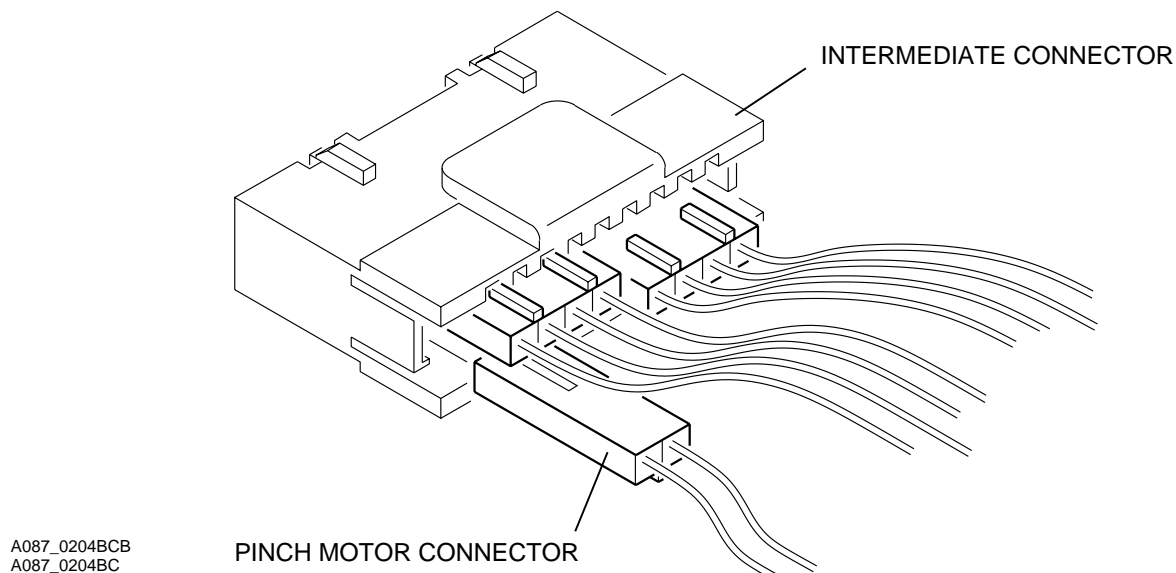
[3] Remove:

- CAM GEAR by pulling the LOCATOR TAB from the LOCATOR SLOT and the CAM SHAFT AY
- IDLER GEAR
- PINCH MOTOR GEAR
- 3 SCREWS holding the PINCH MOTOR to the ROLLER AY



[4] Remove from the WIRE CLIP:

- WIRE CLIP SCREW
- WASHER
- WIRES from the PINCH MOTOR



[5] Remove the PINCH MOTOR CONNECTOR from the INTERMEDIATE CONNECTOR.

To Install:

[1] Reverse the steps for the removal procedure.

Postrequisites:

[1] Adjust:

- DONOR SENSOR - see Page 26
- LEAD EDGE SENSOR - see Page 17

[2] Do the following diagnostic tests. See Publication No. DG3179-1:

- “PINCH”
- “STEP MOTOR”
- “PICK/EJECT”

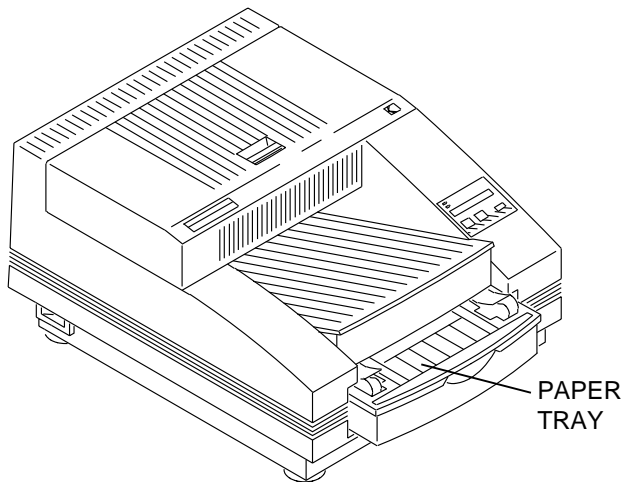
[3] Make a print to check for correct operation.

[4] If the print has the STRETCH artifact, do these adjustment procedures:

- ROLLER AY - see Page 13
- DONOR SUPPLY BRACKET - see Page 8
- THERMAL HEAD LOAD GAP - see Page 24

KICKER BANDS on the CAPSTAN ROLLER

Prerequisites:

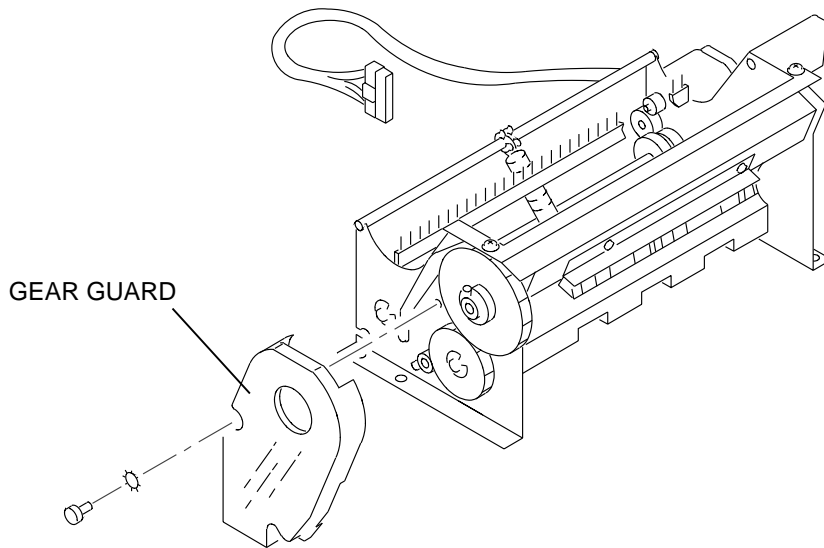


A114_0003ACA
A114_0003AC

[1] Remove:

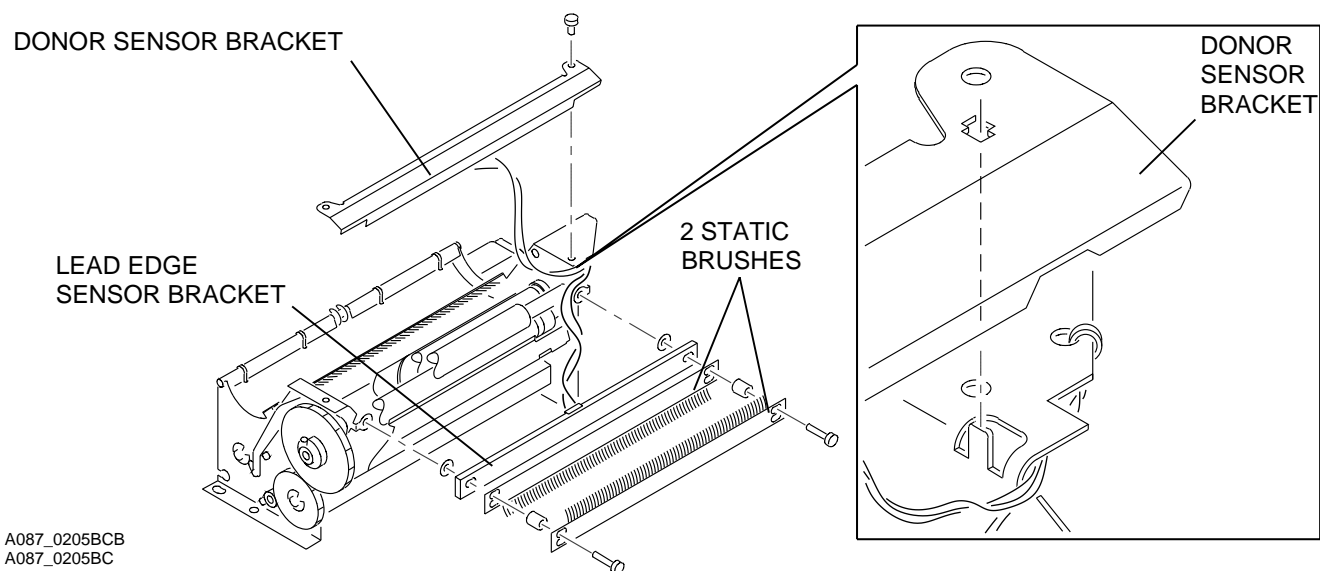
- PAPER TRAY
- DOOR COVER - see Page 39
- ENCASUREMENT - see Page 40
- ROLLER AY - see Page 46

To Remove:



A114_0033BCA
A114_0033BC

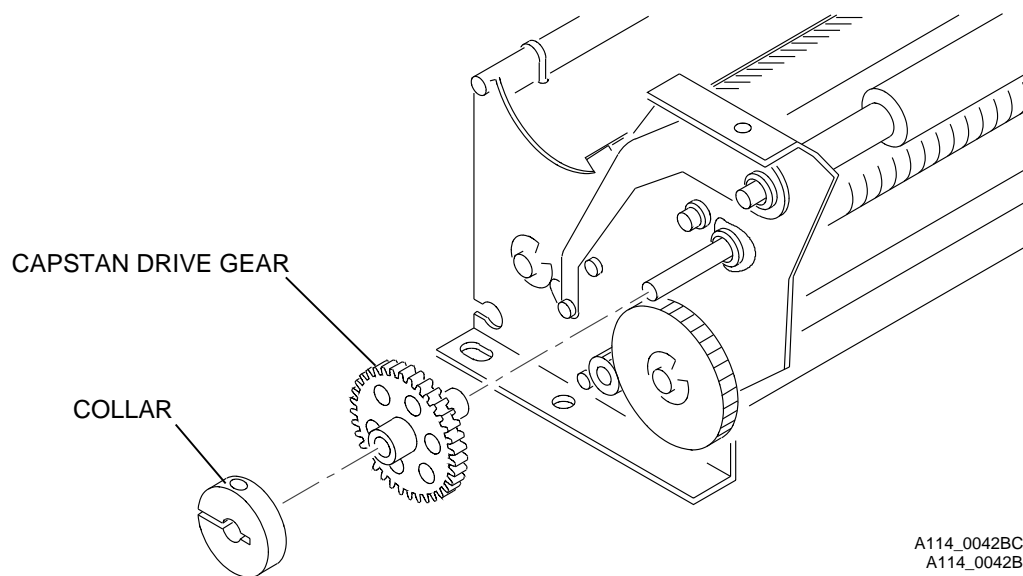
[1] Remove the GEAR GUARD.



A087_0205BCB
A087_0205BC

[2] Remove:

- DONOR SENSOR BRACKET
- 2 STATIC BRUSHES
- LEAD EDGE SENSOR BRACKET



A114_0042BCA
A114_0042BC

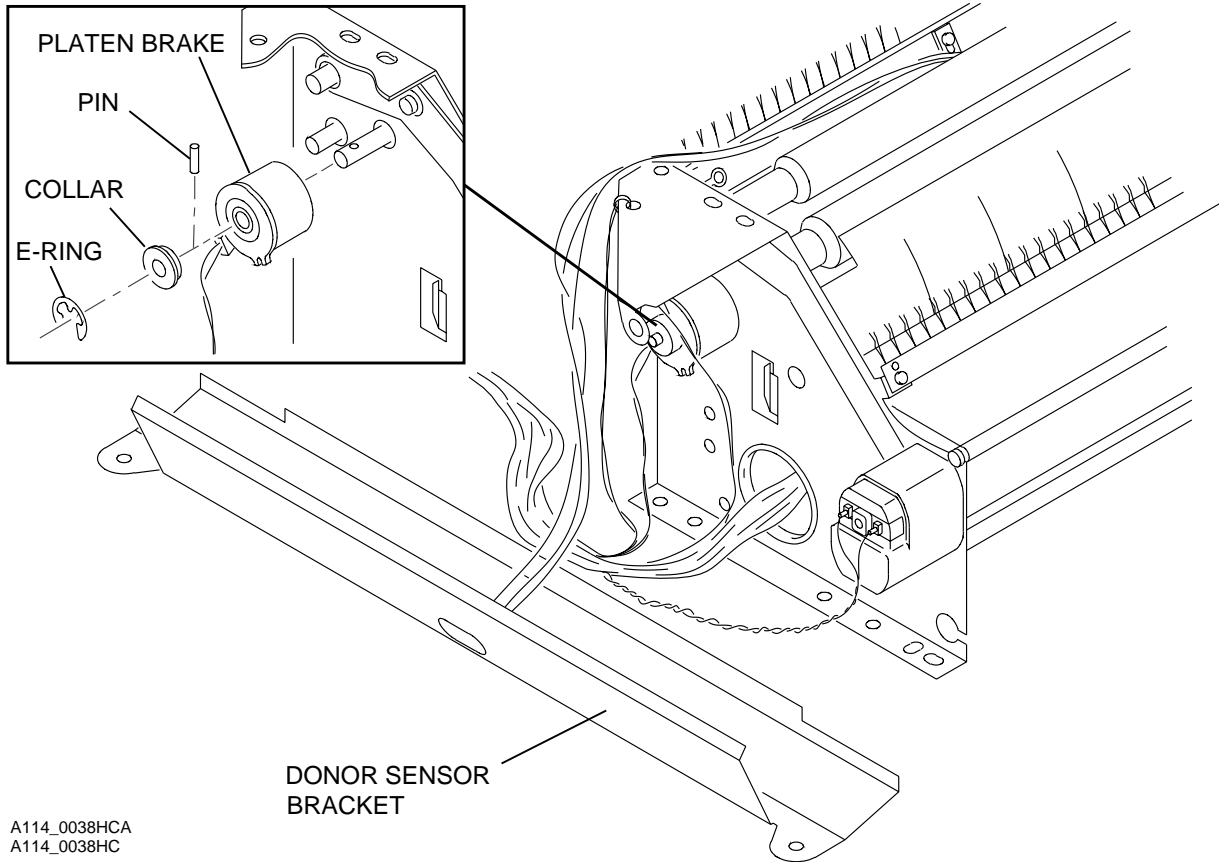


Caution

Prevent damage to the GEAR.

[3] Remove:

- COLLAR on the CAPSTAN DRIVE GEAR
- CAPSTAN DRIVE GEAR

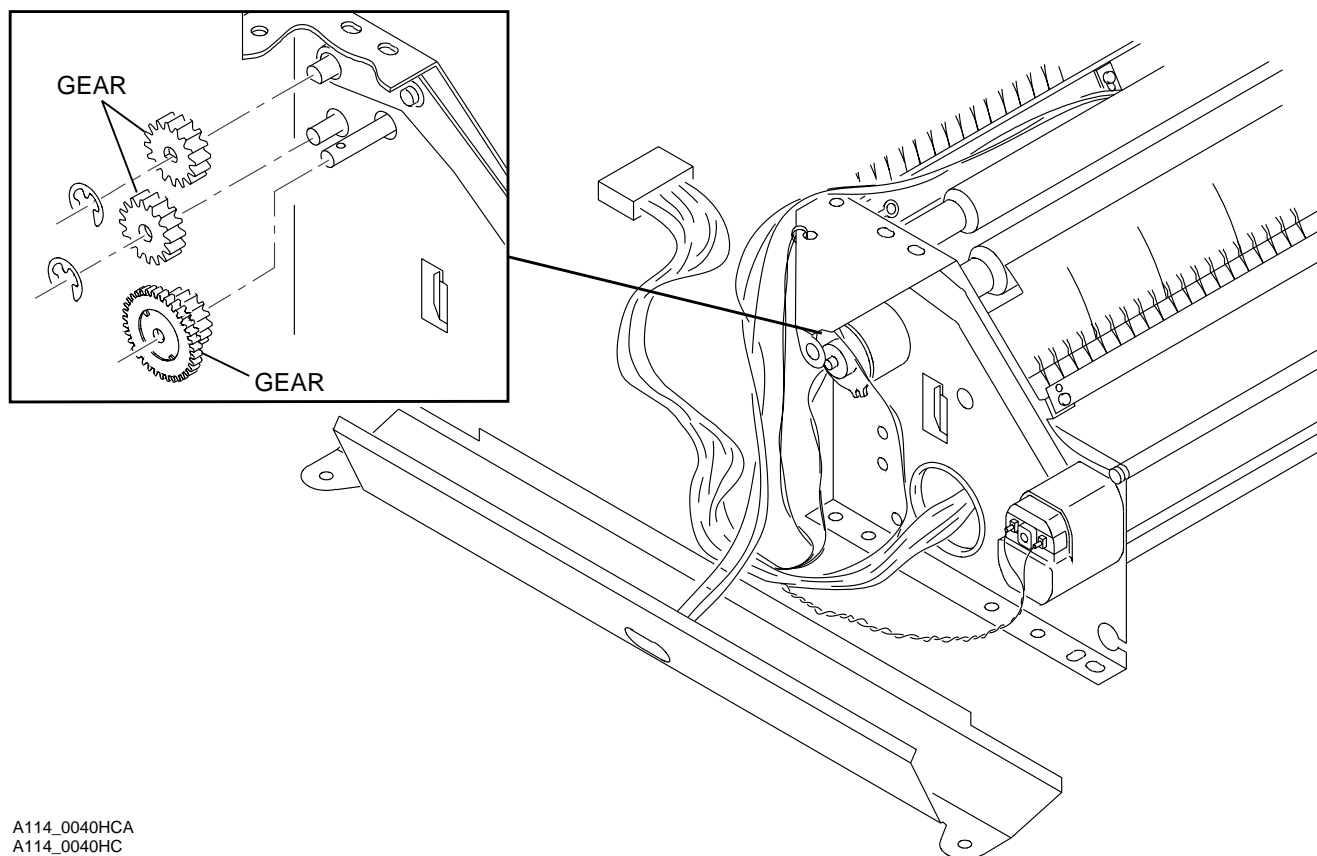


A114_0038HCA
A114_0038HC

[4] Place the DONOR SENSOR BRACKET in the correct position indicated in the graphic.

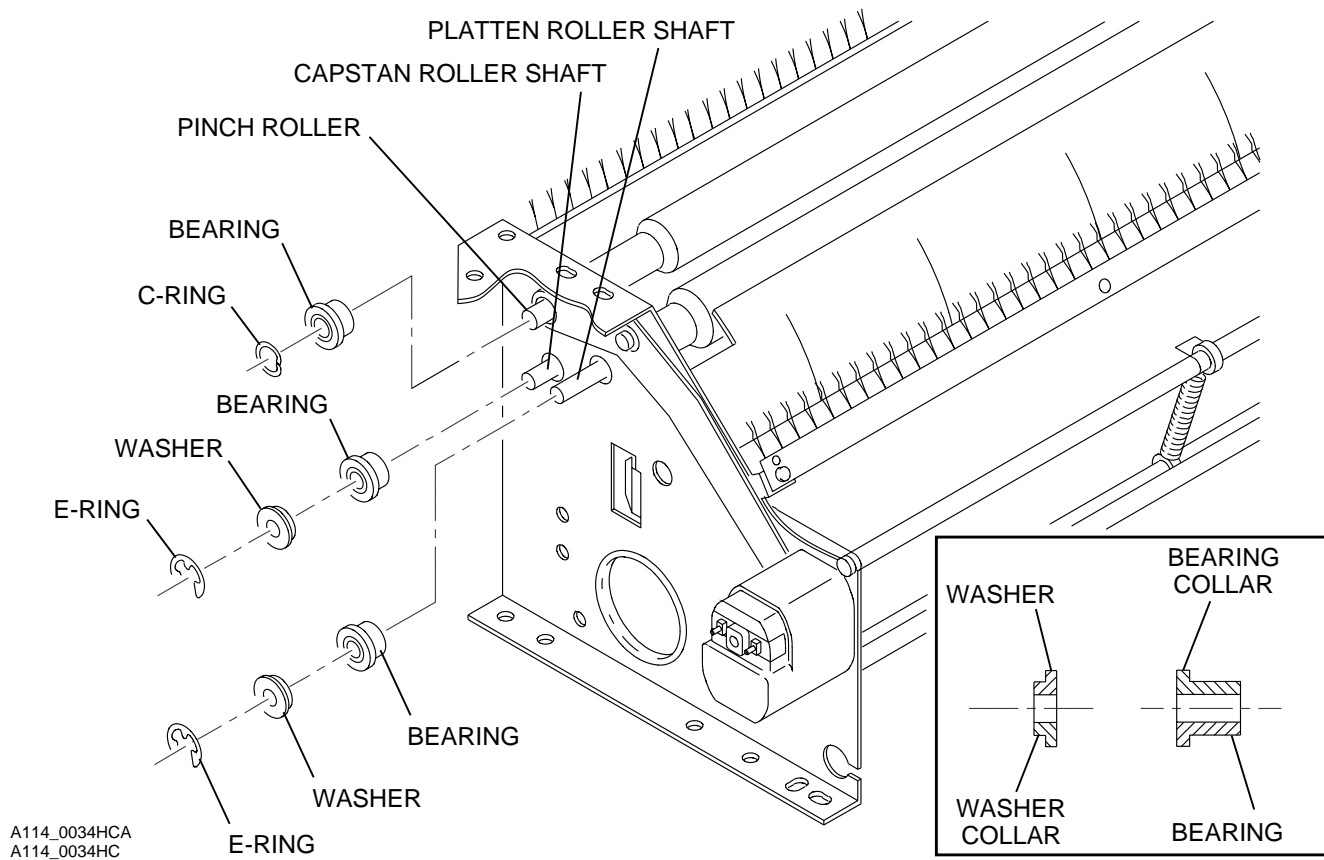
[5] Remove:

- E-RING
- COLLAR
- PIN
- PLATEN BRAKE



A114_0040HCA
A114_0040HC

[6] Remove the 3 GEARS.



Important

When you remove the WASHERS and BEARINGS, you must note the position of the COLLAR on the WASHERS and BEARINGS. The COLLAR is either in toward the equipment or out. This is important during installation.

[7] Remove from the PLATTEN ROLLER SHAFT:

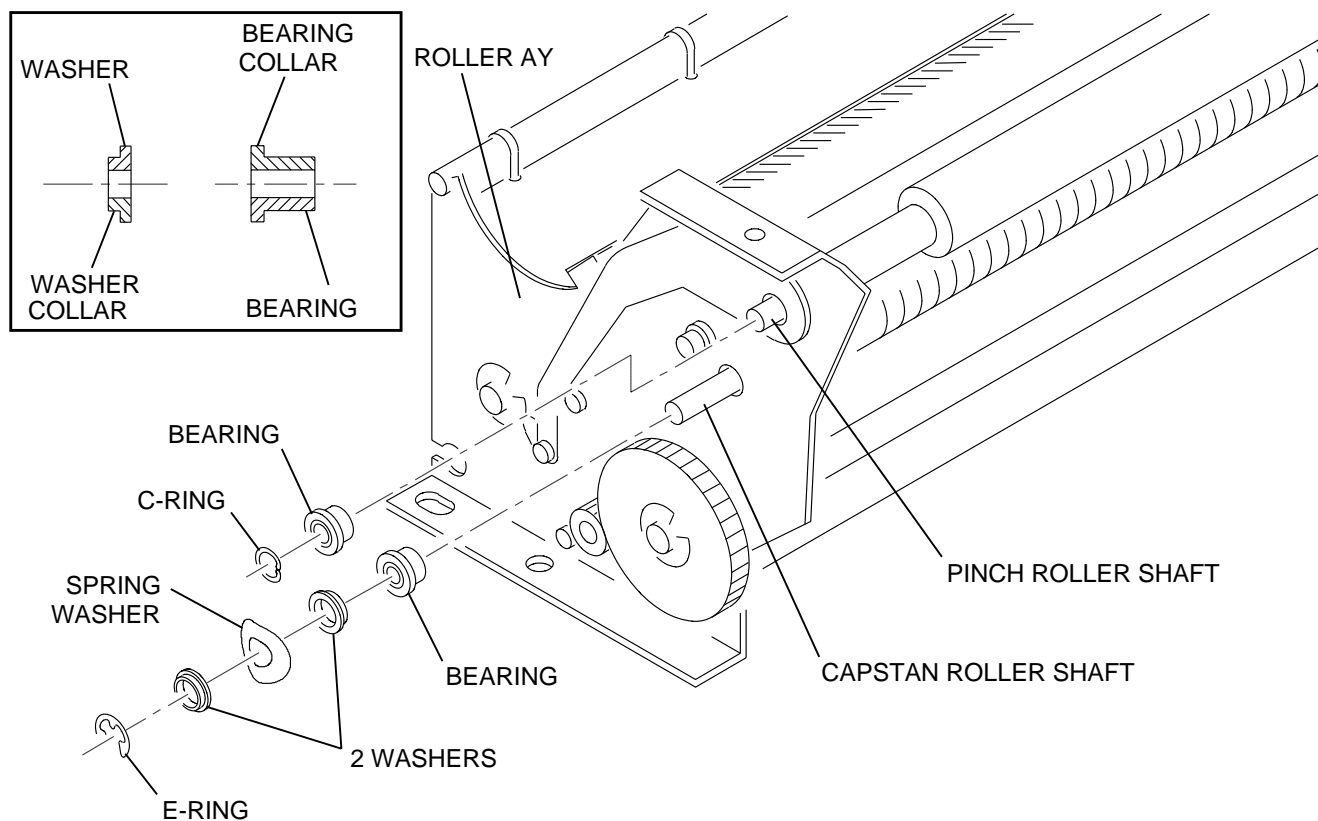
- E-RING
- WASHER - COLLAR in
- BEARING - COLLAR out

[8] Remove from the CAPSTAN ROLLER SHAFT:

- E-RING
- WASHER - COLLAR in
- BEARING - COLLAR out

[9] Remove from the PINCH ROLLER:

- C-RING
- BEARING - COLLAR out



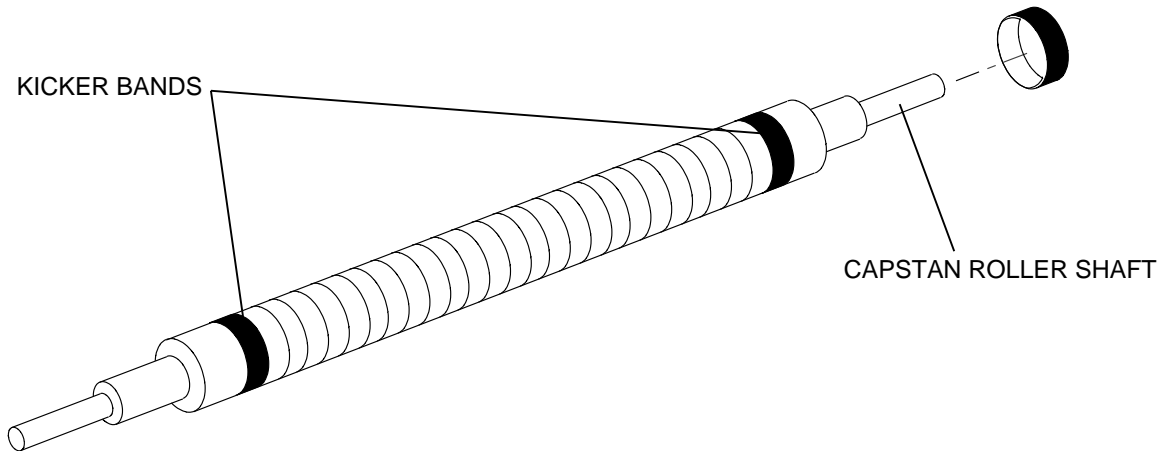
A114_0035HCA
A114_0035HC

[10] From the left side of the ROLLER AY, remove from the PINCH ROLLER SHAFT:

- C-RING
- BEARING - COLLAR is out

[11] Remove from the CAPSTAN ROLLER SHAFT:

- E-RING
- WASHER - COLLAR out
- SPRING WASHER
- WASHER - COLLAR in
- BEARING - COLLAR out



A114_0036BCA
A114_0036BC

[12] Remove:

- CAPSTAN ROLLER SHAFT
- 2 KICKER BANDS

To Install:

- [1] Reverse the steps from the removal procedure.

Postrequisites:

[1] Adjust:

- DONOR SENSOR - see Page 26
- LEAD EDGE SENSOR - see Page 17

[2] Do the following diagnostic tests. See Publication No. DG3179-1:

- “PINCH”
- “STEP MOTOR”
- “PICK/EJECT”

[3] Make a print to check for correct operation.

[4] If the print has the STRETCH artifact, do these adjustment procedures:

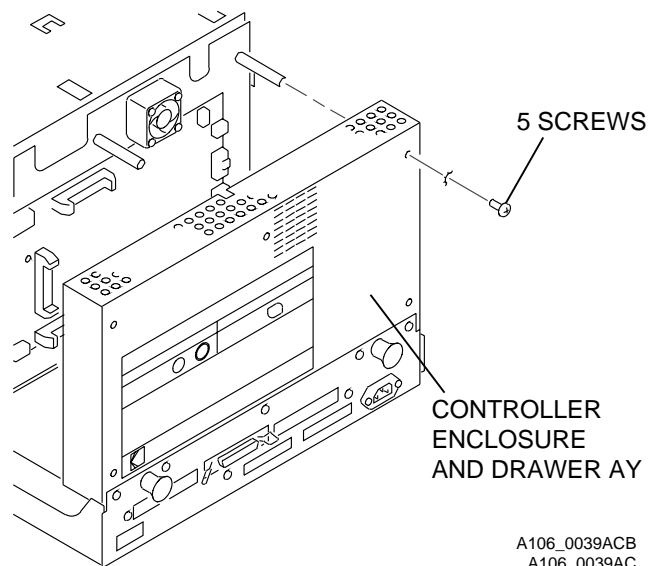
- ROLLER AY - see Page 13
- DONOR SUPPLY BRACKET - see Page 8
- THERMAL HEAD LOAD GAP - see Page 24

CONTROLLER ENCLOSURE AND DRAWER AY

Prerequisites:

None

To Open:



- [1] Remove the 5 SCREWS.
- [2] Open and extend the CONTROLLER ENCLOSURE AND DRAWER AY to the maximum.

To Close:

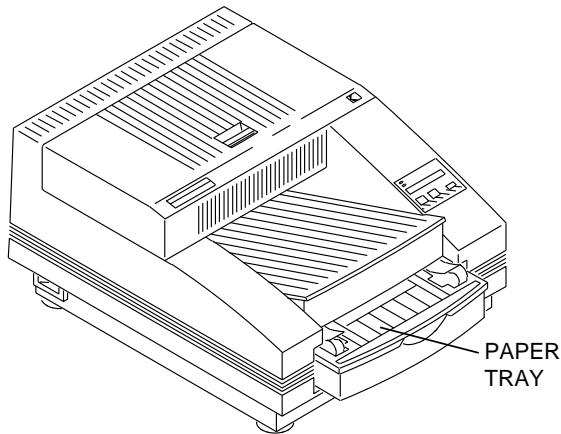
- [1] Reverse the steps for the removal procedure.
-

Postrequisites:

None

LCD and BRACKET

Prerequisites:



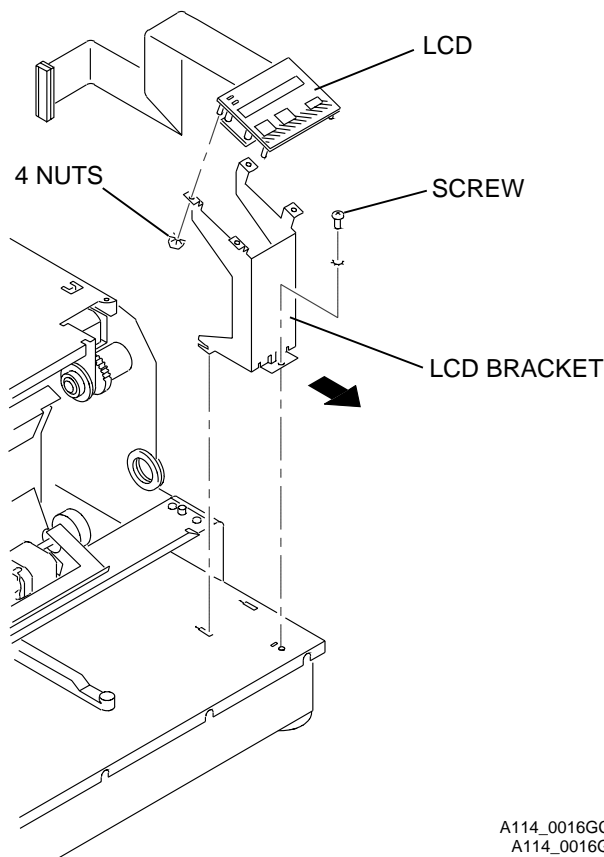
A114_0003ACA
A114_0003AC

[1] Open the CONTROLLER ENCLOSURE AND DRAWER AY. See Page 63.

[2] Remove:

- PAPER TRAY
- DOOR COVER - see Page 39
- ENCASEMENT - see Page 40

To Remove:



A114_0016GCA
A114_0016GC



Important

The PICTURE MAKER PS4 PRINTER with serial•numbers > G3304623 has the LED DISPLAY PANEL for the POWER INDICATOR, not the LCD.

[1] Disconnect from the CONTROLLER BD:

- CONNECTOR P9 if the PRINTER has the LCD DISPLAY PANEL
- CONNECTOR P15 if the PRINTER has the LED DISPLAY PANEL

[2] Remove:

- SCREW
- LCD BRACKET
- 4 NUTS
- LCD

To Install:

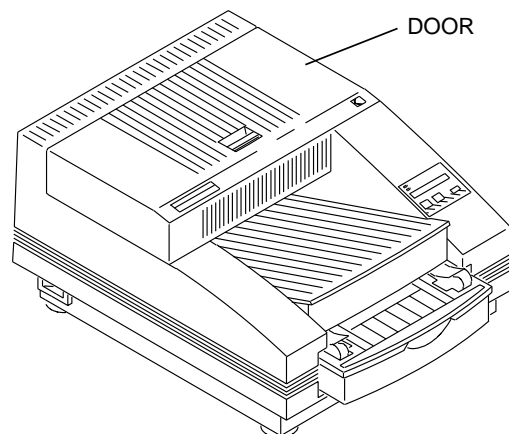
[1] Reverse the steps for the removal procedure.

Postrequisites:

[1] See the diagnostic procedure for “DIAG: PANEL TEST”, Publication No. DG3179-1.

DONOR SUPPLY BRACKET

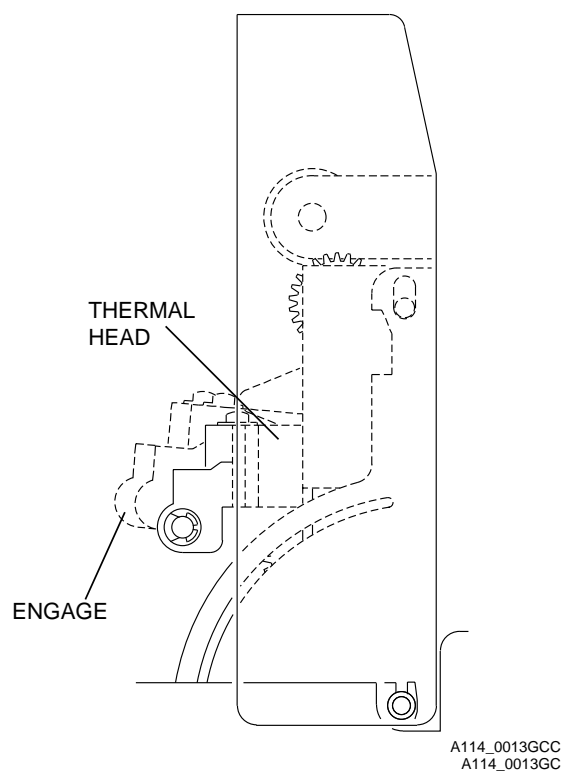
Prerequisites:



A114_0003ACB
A114_0003AC

- [1] Open:
 - CONTROLLER ENCLOSURE AND DRAWER AY - see Page 63
 - DOOR
- [2] Remove the DONOR.

To Remove:



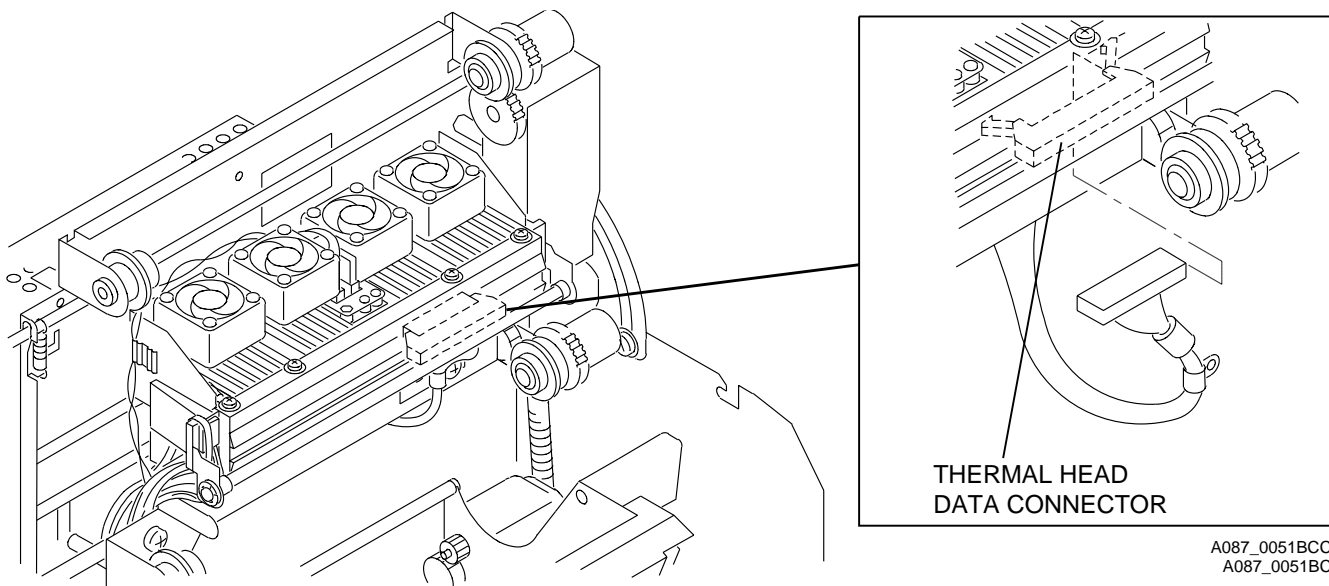
A114_0013GCC
A114_0013GC



Caution

Do not touch the DONOR. This can cause contamination on the DONOR.

- [1] Energize the PRINTER.
- [2] Enter the diagnostics and select "DIAG: HEAD TEST". See the DIAGNOSTICS, Publication No. DG3179-1.
- [3] Move the THERMAL HEAD to the engage position.
- [4] De-energize the PRINTER.



[5] Remove:

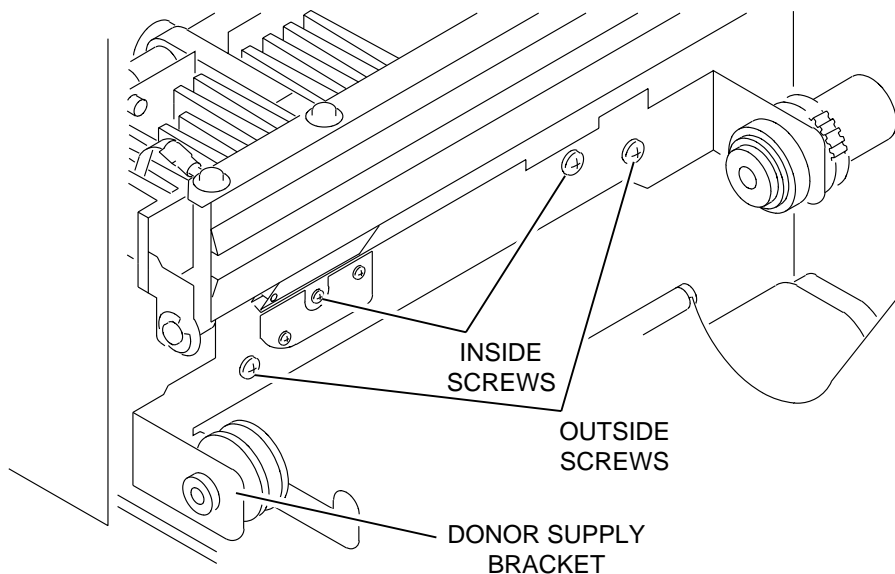
- THERMAL HEAD DATA CONNECTOR
- CONNECTOR P5 from the CONTROLLER BD - see Pages 68 and 70



Important

CONNECTOR P2 is a MULTIPLE CONNECTOR. The BAR CODE CONNECTOR is on the right side of P2.

[6] Remove CONNECTOR P2 from the CONTROLLER BD. See Page 42 for the removal of MULTIPLE CONNECTORS.

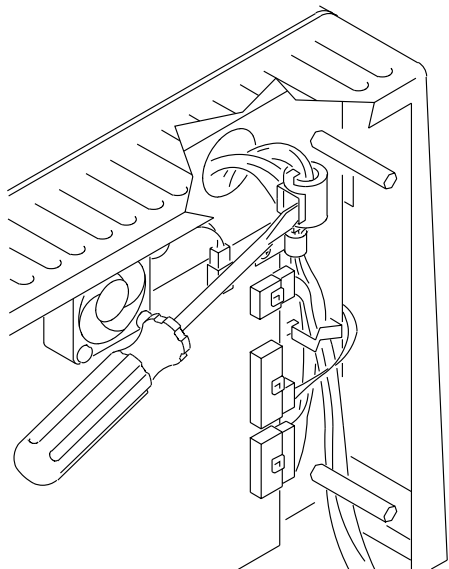


[7] Remove:

- 2 INSIDE SCREWS
- 2 OUTSIDE SCREWS

[8] Observe the positions of the CABLE TIES. Cut the CABLE TIES.

[9] Route the THERMAL HEAD DATA CABLE through the hole on the BASE ENCLOSURE BACK WALL.



A087_4062AC

[10] Route the BAR CODE HARNESS through the BASE ENCLOSURE BACK and WALL.

[11] Remove the DONOR SUPPLY BRACKET AY.

To Install:

[1] Reverse Steps 8 through 11.



Important

Do not tighten the 4 SCREWS at this time.

[2] Install:

- 2 INSIDE SCREWS
- 2 OUTSIDE SCREWS

[3] Do the adjustment for the DONOR SUPPLY BRACKET. See Page 8.

[4] Install:

- CONNECTOR P2 on the CONTROLLER BD - see Pages 68 and 70
- CONNECTOR P5 on the CONTROLLER BD - see Pages 68 and 70
- THERMAL HEAD DATA CONNECTOR

Postrequisites:

[1] Adjust the BAR CODE SENSOR. See Page 32.

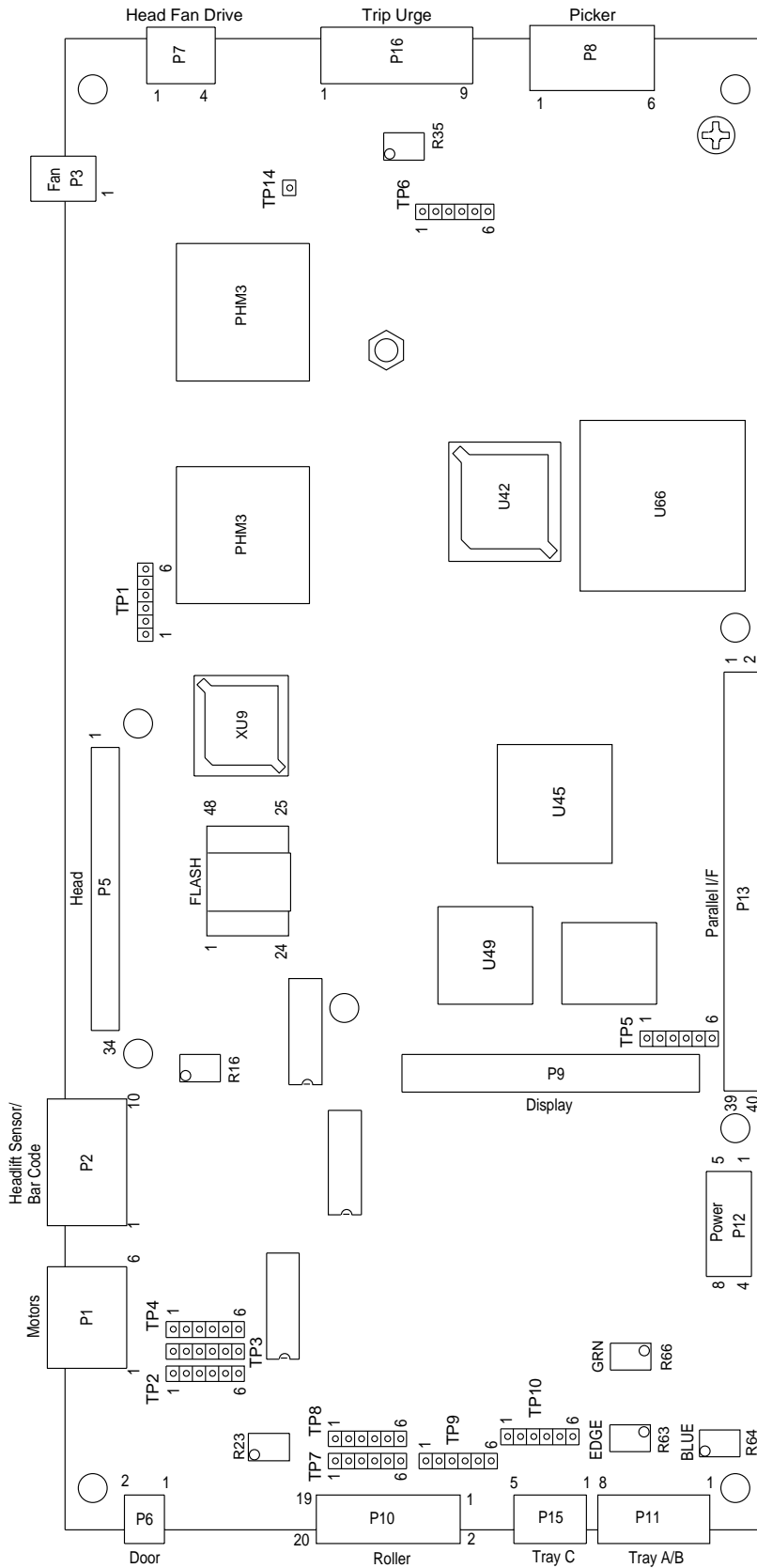
[2] Do the "DIAG: DONOR TEST". See the DIAGNOSTICS, Publication No. DG3179-1.

[3] Make a print from the ENGINE. If there are STRETCH artifacts, do the adjustment for the DONOR SUPPLY BRACKET. See Page 8.

CONTROLLER BD - PS4 PRINTER and 8670 PS THERMAL PRINTER

Prerequisites:

CONTROLLER BOARD

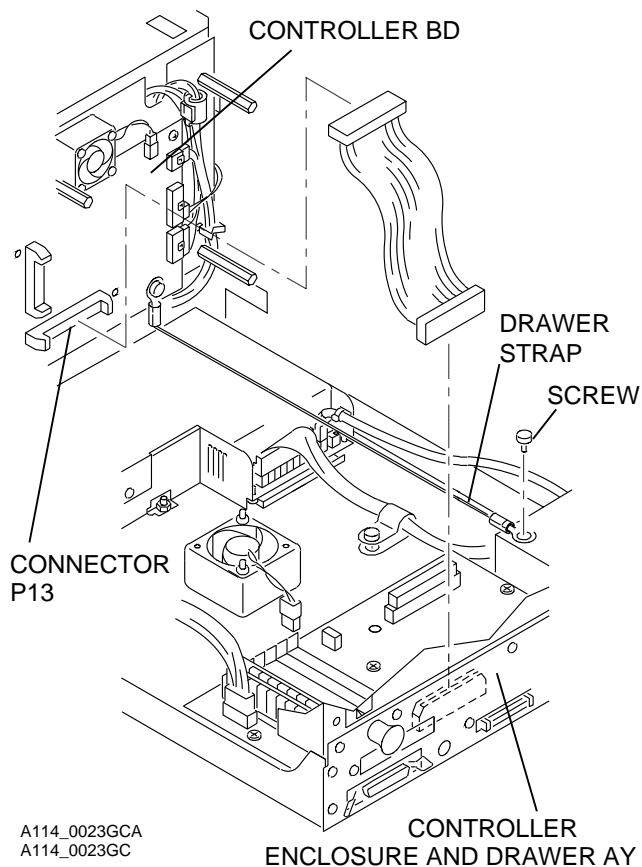


A106_0015EC

**Warning**

Dangerous Voltage

- [1] De-energize and disconnect the PRINTER.
- [2] Open and extend the CONTROLLER ENCLOSURE AND DRAWER AY to the maximum.

To Remove:

- [1] Disconnect all CONNECTORS on the CONTROLLER BD.
- [2] Remove:
 - all SCREWS on the CONTROLLER BD
 - CONNECTOR P13
 - SCREW
 - DRAWER STRAP
 - CONTROLLER BD

To Install:

- [1] Reverse the steps for the removal procedure.

**Note**

On replacement CONTROLLER BDs, the JUMPER on TP2 might not be in the correct position. The correct positions are:

- PINS 3 - 4 for the PS4 PRINTER
- PINS 4 - 5 for the 8670 PS THERMAL PRINTER

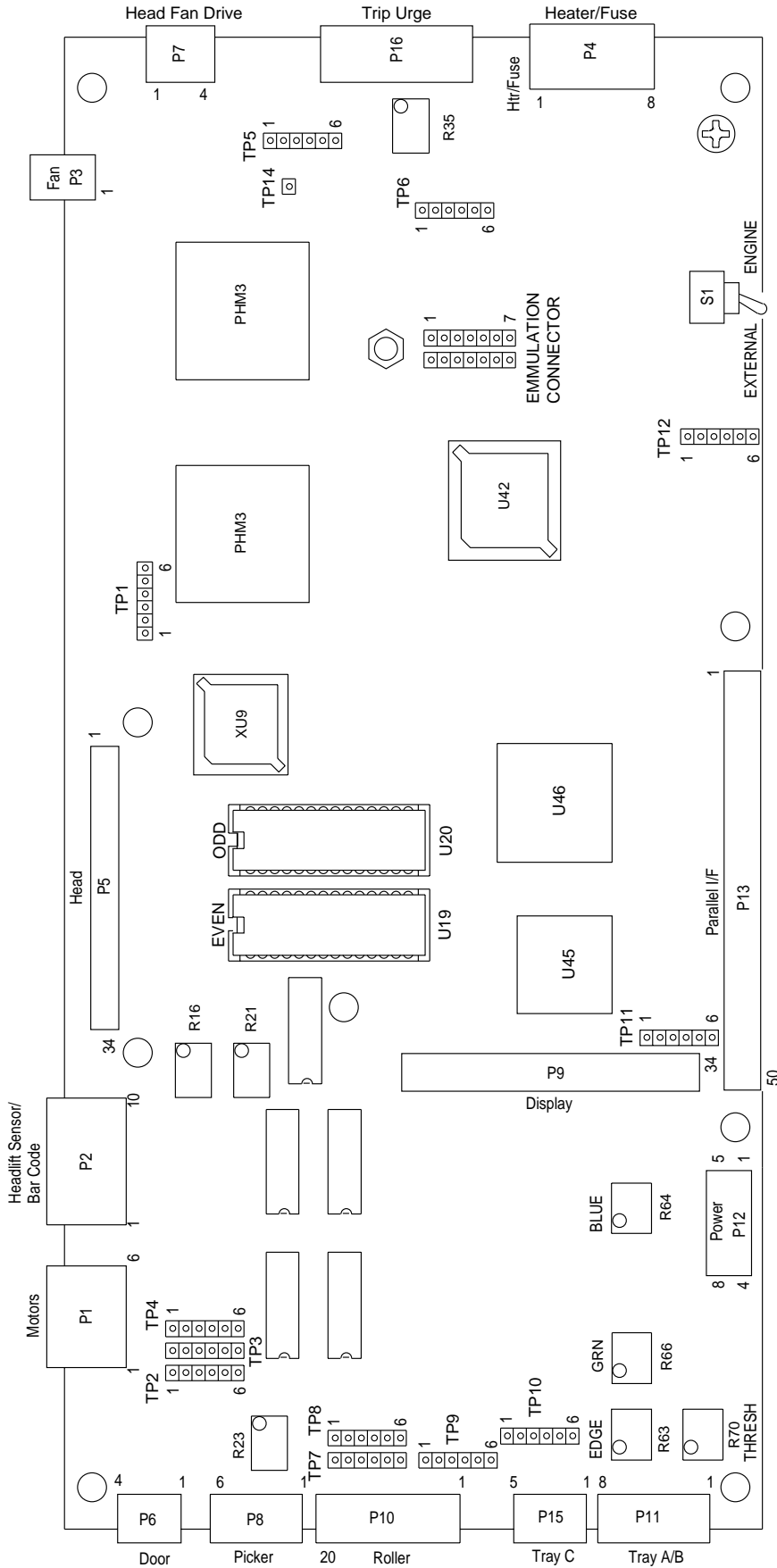
Postrequisites:

- [1] Adjust:
 - LEAD EDGE SENSOR
 - DONOR SENSORS
 - BAR CODE SENSOR
 - RECEIVER TYPE SENSOR

CONTROLLER BD - EI 8651 DIGITAL COLOR PRINTER

Prerequisites:

CONTROLLER BOARD

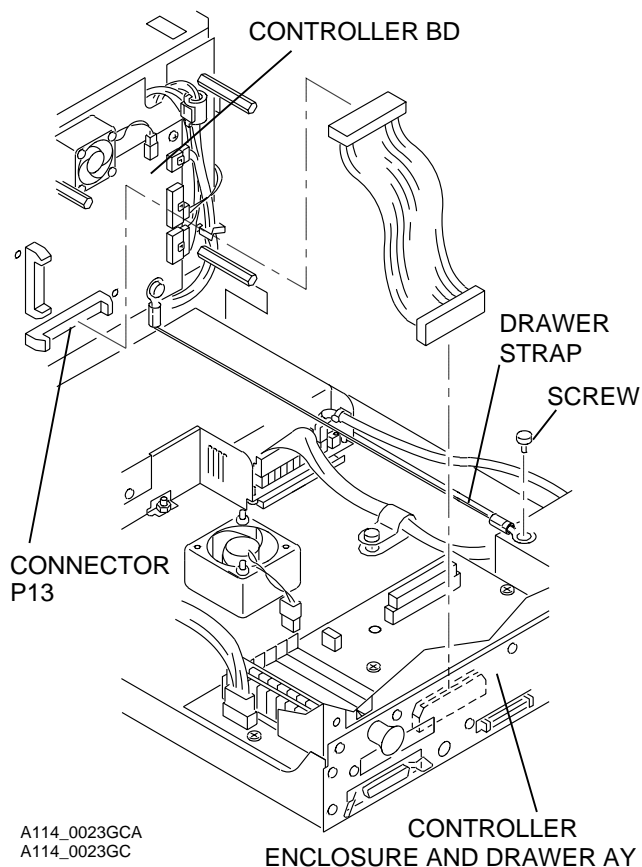


S1 ALLOWS YOU TO RUN DIAGNOSTICS IN ENGINE MODE.

**Warning**

Dangerous Voltage

- [1] De-energize and disconnect the PRINTER.
- [2] Open and extend the CONTROLLER ENCLOSURE AND DRAWER AY to the maximum.

To Remove:

- [1] Disconnect all CONNECTORS on the CONTROLLER BD.
- [2] Remove:
 - all SCREWS on the CONTROLLER BD
 - CONNECTOR P13
 - SCREW
 - DRAWER STRAP
 - CONTROLLER BD

To Install:

- [1] Reverse the steps for the removal procedure.

Postrequisites:

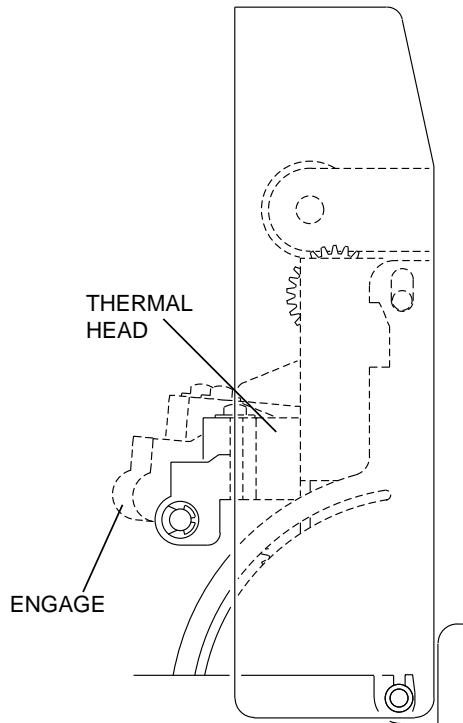
- [1] Adjust:
 - LEAD EDGE SENSOR
 - DONOR SENSORS
 - BAR CODE SENSOR
 - RECEIVER TYPE SENSOR

MOTOR BRACKET AY

Prerequisites:

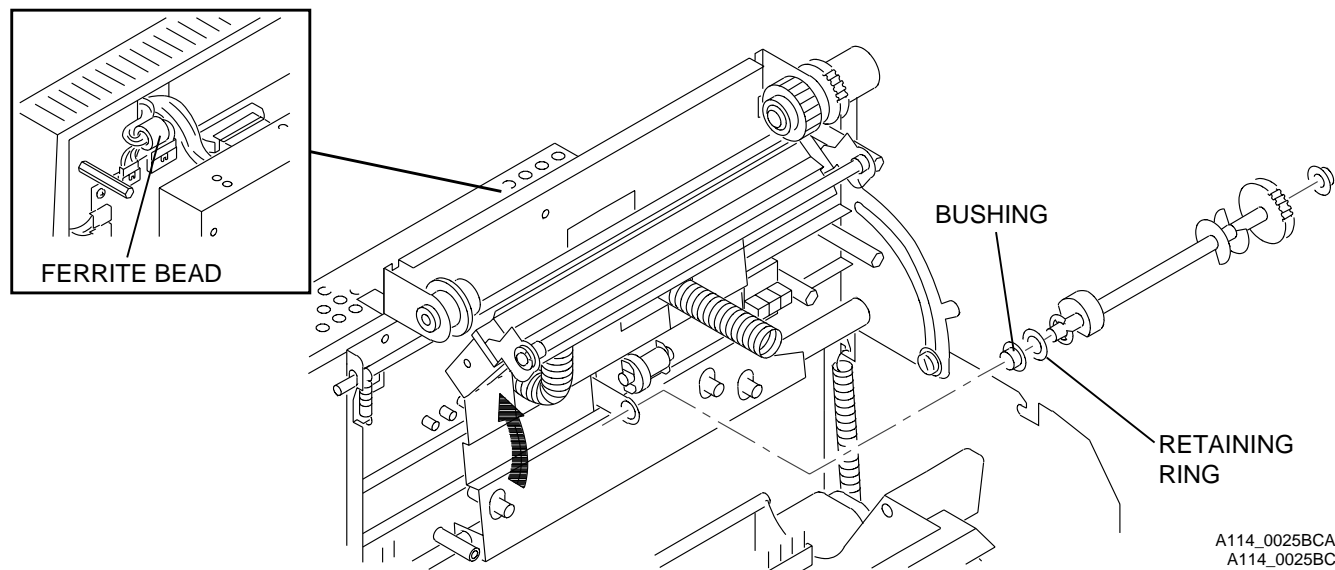
- [1] Remove the DOOR COVER. See Page 39.
- [2] Open the CONTROLLER ENCLOSURE AND DRAWER AY. See Page 63.

To Remove:



A114_0013GCC
A114_0013GC

- [1] Enter the diagnostics.
- [2] Move the THERMAL HEAD to the engage position.
- [3] Do the removal procedure for the DONOR SUPPLY BRACKET. See Page 8.

**Warning**

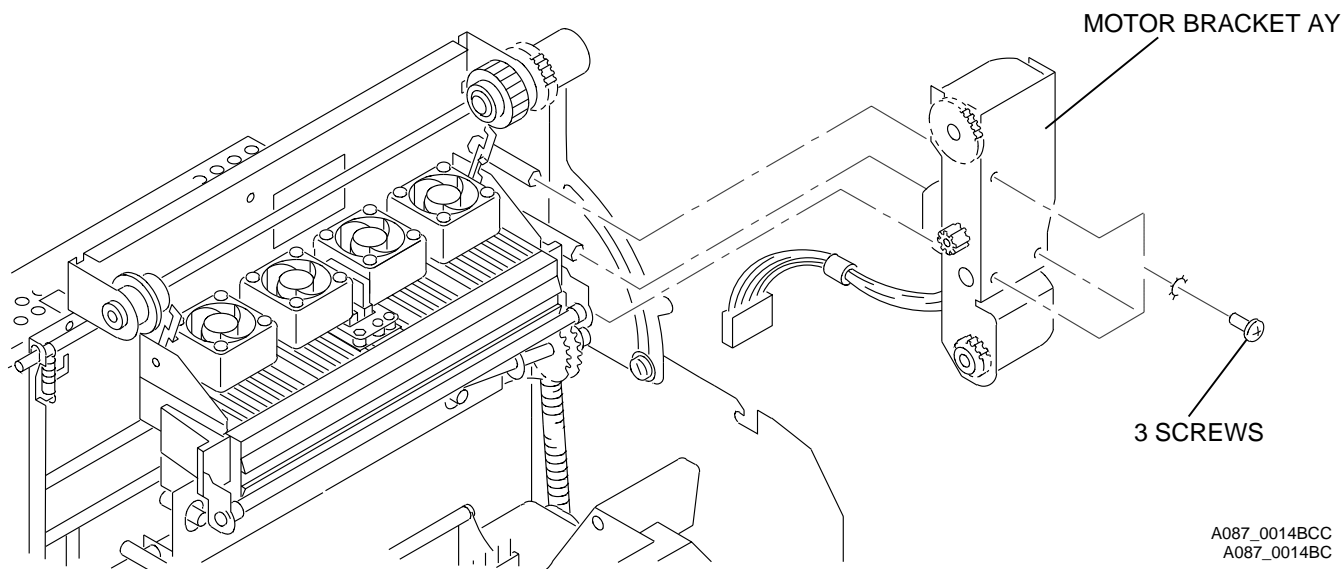
Dangerous Voltage

[4] De-energize the PRINTER.

[5] Remove:

- RETAINING RING
- BUSHING
- FERRITE BEAD

[6] Disconnect the CONNECTOR P1 from the CONTROLLER BD. See Pages 68 and 70.



[7] Remove:

- 3 SCREWS
- MOTOR BRACKET AY

To Install:

[1] Reverse the steps for the removal procedure.

Postrequisites:

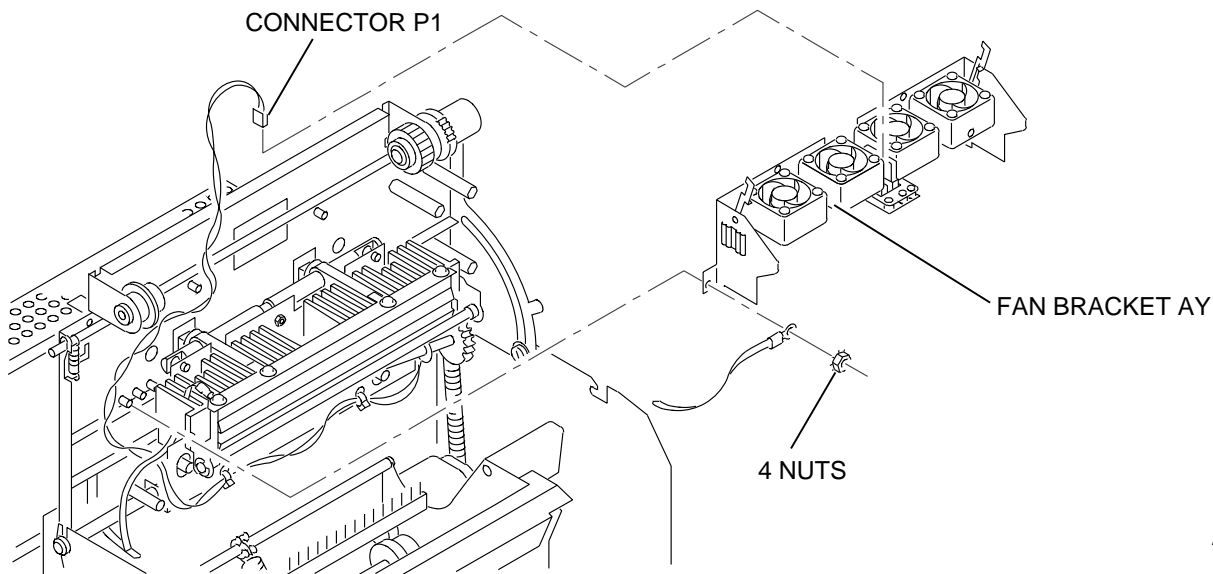
- [1] Do the following diagnostic tests. See the Publication No. DG3179-1.
 - “HEAD TEST”
 - “DONOR TEST”
 - “PICK/EJECT”
- [2] Make a print to check for correct operation.

FAN BRACKET AY

Prerequisites:

- [1] Remove the DOOR COVER. See Page 39.
- [2] Open the CONTROLLER ENCLOSURE AND DRAWER AY. See Page 63.

To Remove:



A087_0016BCC
A087_0016BC

- [1] Disconnect the CONNECTOR P1 from the FAN BRACKET AY.
- [2] Remove:
 - 4 NUTS
 - FAN BRACKET AY

To Install:

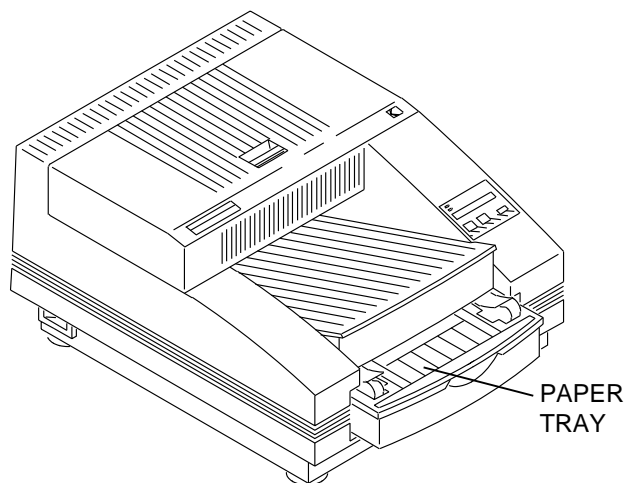
- [1] Reverse the steps for the removal procedure.

Postrequisites:

- [1] Adjust the DONOR.
- [2] Do the following diagnostic tests. See the DIAGNOSTICS, Publication No. DG3179-1.
 - “HEAD TEMP”
 - “DONOR TEST”
- [3] Make a print to check for correct operation.

THERMAL HEAD

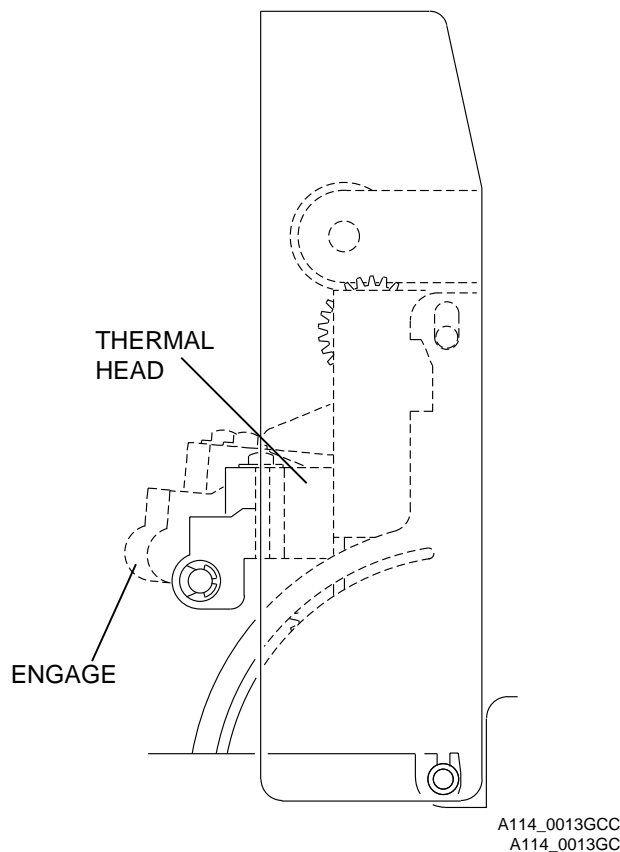
Prerequisites:



A114_0003ACA
A114_0003AC

- [1] Remove:
 - DOOR COVER - see Page 39
 - DONOR
 - PAPER TRAY
- [2] Open the DOOR.

To Remove:



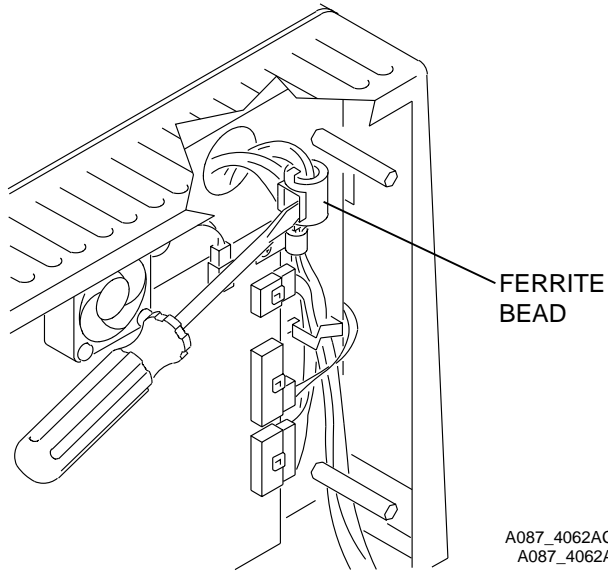
A114_0013GCC
A114_0013GC

Warning
Dangerous Voltage

- [1] Energize the PRINTER.
- [2] Enter the diagnostics.
- [3] Move the THERMAL HEAD to the engage position.

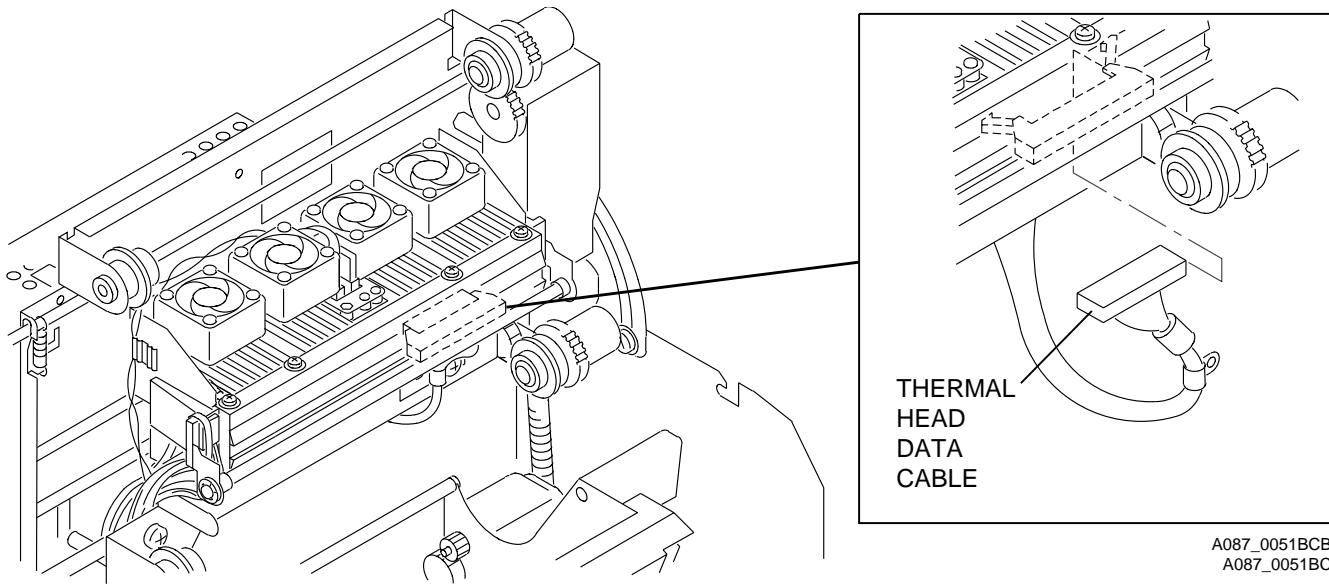
Warning
Dangerous Voltage

- [4] De-energize the PRINTER.

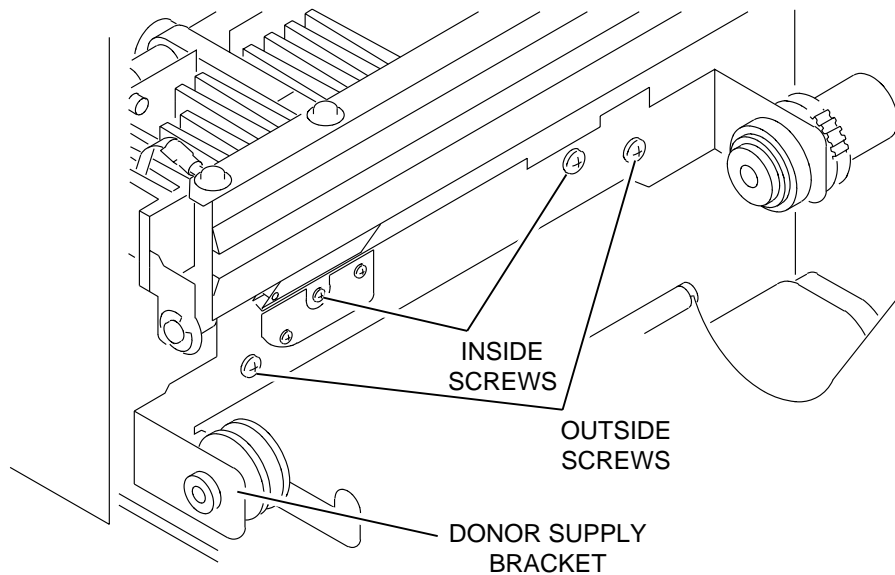


[5] Remove:

- CONNECTOR P7 from the CONTROLLER BD - see Pages 68 and 70
- FERRITE BEAD



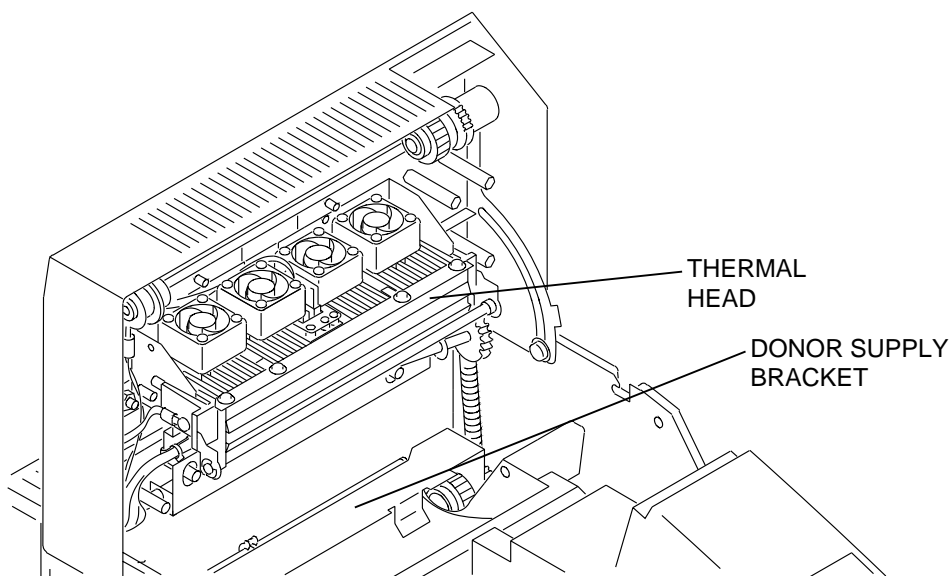
[6] Remove the THERMAL HEAD DATA CABLE.



A114_0027BCA
A114_0027BC

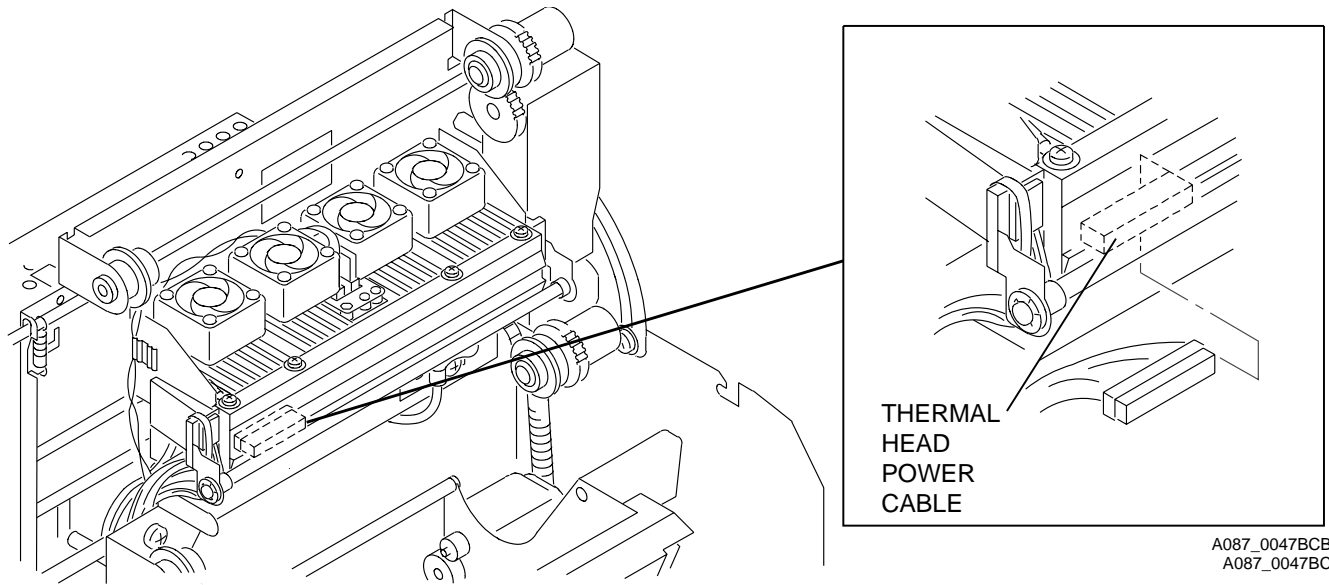
[7] Remove from the DONOR SUPPLY BRACKET:

- 2 INSIDE SCREWS
- 2 OUTSIDE SCREWS

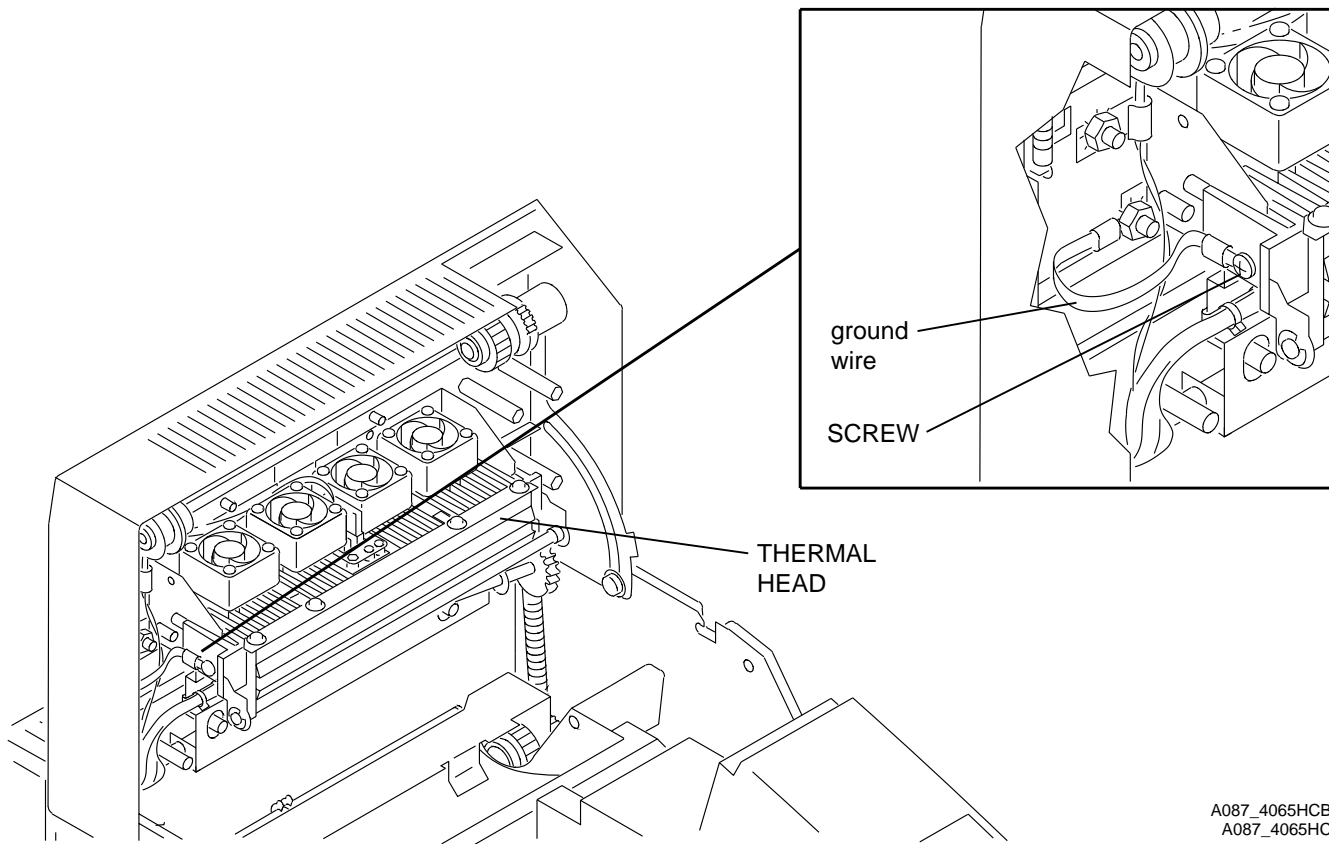


A114_0024BCA
A114_0024BC

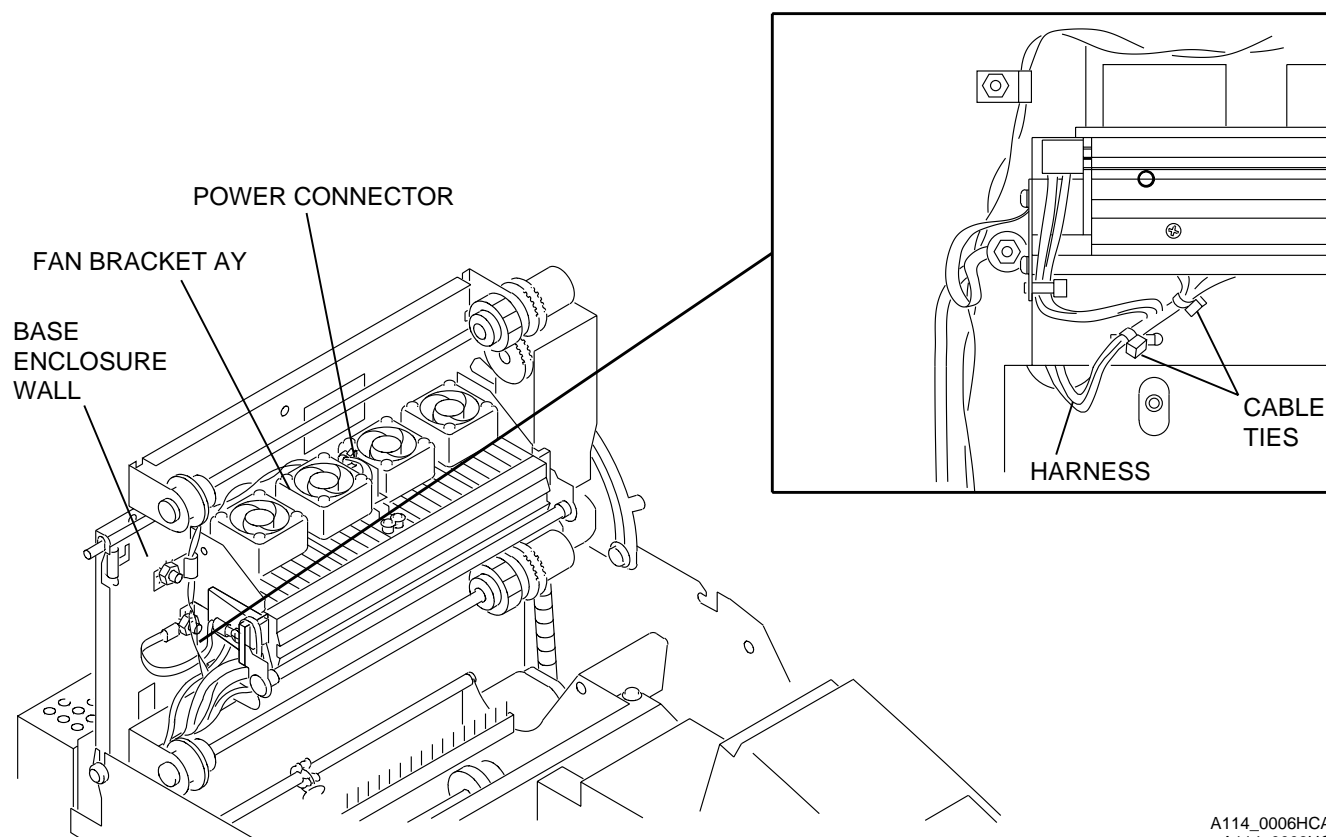
[8] Move the DONOR SUPPLY BRACKET down to allow access to the THERMAL HEAD.



[9] Remove the THERMAL HEAD POWER CABLE.

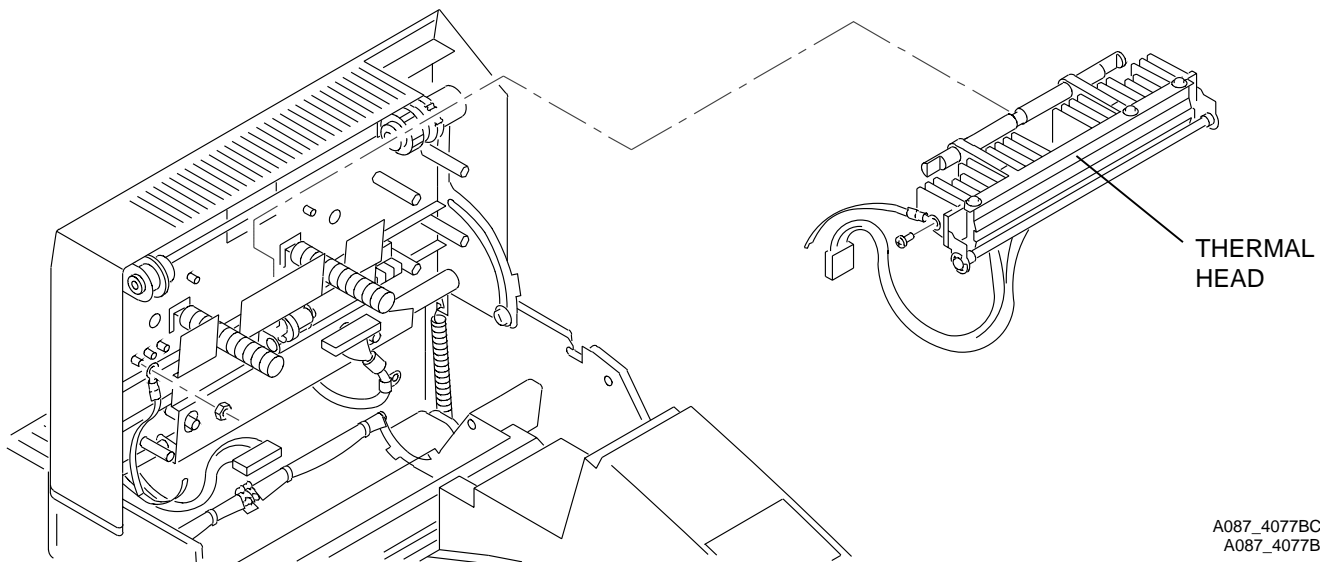


[10] Remove the SCREW that holds the ground wire to the left side of the THERMAL HEAD.



A114_0006HCA
A114_0006HC

- [11] Remove the 2 CABLE TIES.
- [12] Route the HARNESS through the hole in the back of the BASE ENCLOSURE WALL.
- [13] Remove the POWER CONNECTOR from the FAN BRACKET AY.
- [14] Move the POWER CONNECTOR to the left.
- [15] Do the removal procedure for the FAN BRACKET AY. See Page 74.



Caution

Prevent damage.

[16] Remove:

- THERMAL HEAD
- any contamination next to the THERMAL HEAD and DOOR

[17] Return the THERMAL HEAD. See the instructions sent with the new THERMAL HEAD.

To Install:

[1] Reverse the steps for the removal procedure.

Postrequisites:

[1] Clean the THERMAL HEAD.

[2] Do the following adjustments:

- Voltage for the THERMAL HEAD - see Page 20
- DONOR SUPPLY BRACKET - see Page 8

[3] Do the following diagnostics. See the DIAGNOSICS, Publication No. DG3179-1:

- “HEAD TEMP”
- “HEAD TEST”
- “DONOR TEST”
- “PICK/EJECT

[4] Make a print to check for correct operation.

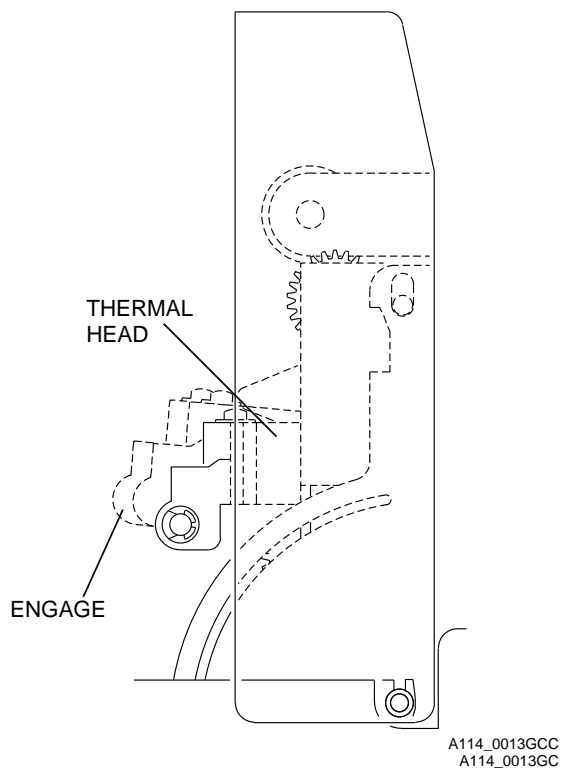
THERMAL HEAD LIFT CAM

Prerequisites:

[1] Open the CONTROLLER ENCLOSURE AND DRAWER AY. See Page 63.

[2] Remove:

- DONOR SUPPLY BRACKET AY - see Page 65
- MOTOR BRACKET AY - see Page 72

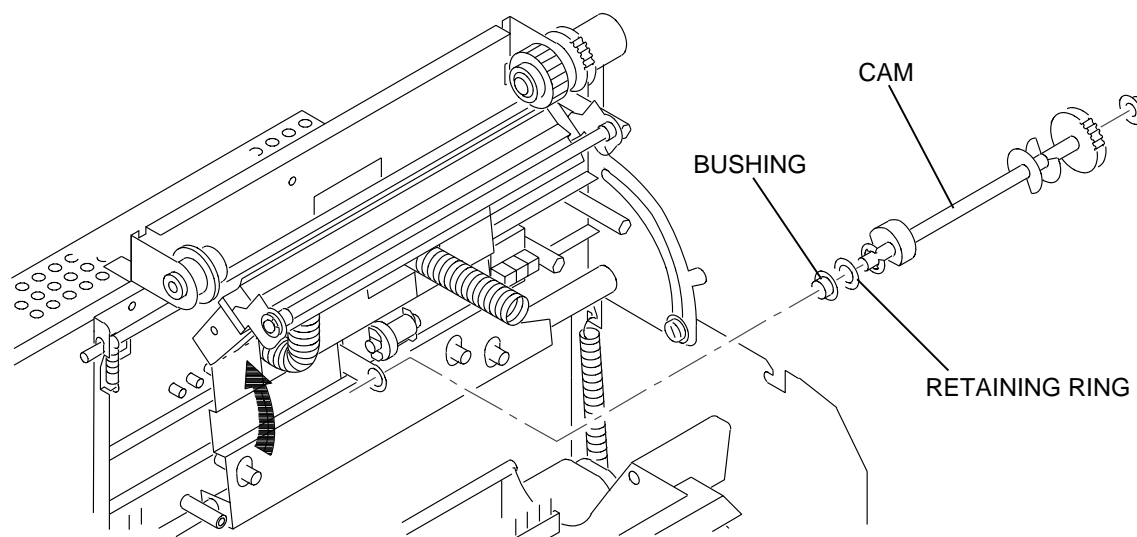
To Remove:

Warning
Dangerous Voltage

- [1] Energize the PRINTER.
- [2] Enter the diagnostics.
- [3] Move the THERMAL HEAD in the engage position.

Warning
Dangerous Voltage

- [4] De-energize the PRINTER.



- [5] Remove the RETAINING RING.
- [6] Move the BUSHING to the right.
- [7] Remove the CAM.

To Install:

- [1] Reverse the steps for the removal procedure.

Postrequisites:

- [1] Do the diagnostics for the "HEAD TEST". See the DIAGNOSTICS, Publication No. DG3179-1.

THERMAL HEAD LIFT SENSOR

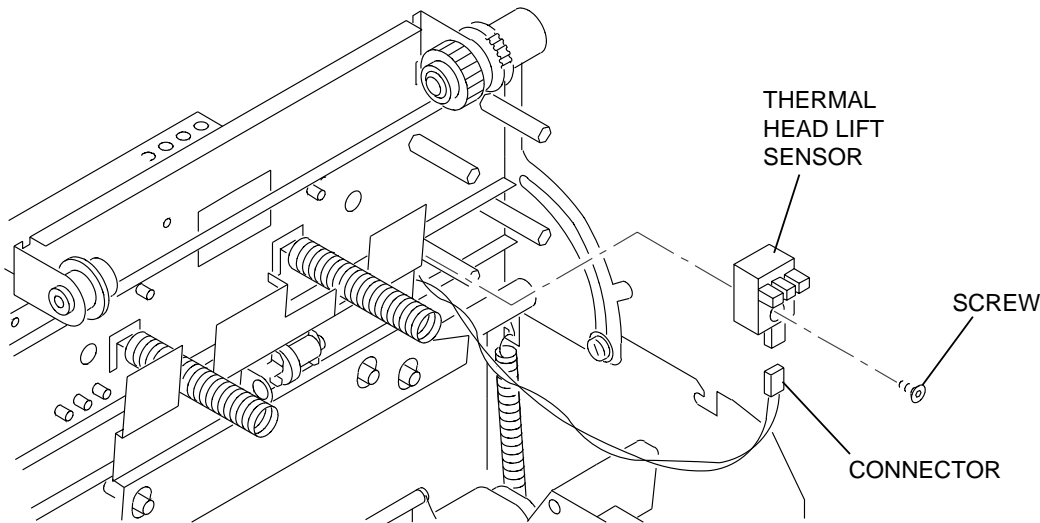
Prerequisites:

[1] Remove:

- DONOR SUPPLY BRACKET AY - see Page 65
- MOTOR BRACKET AY - see Page 72

[2] Open the CONTROLLER ENCLOSURE AND DRAWER AY. See Page 63.

To Remove:



[1] Remove:

- CONNECTOR
- SCREW
- THERMAL HEAD LIFT SENSOR

To Install:

[1] Reverse the steps for the removal procedure.

Postrequisites:

[1] Do the diagnostic test for the “HEAD TEST”. See the DIAGNOSTICS, Publication No. DG3179-1.

[2] Adjustment for the DONOR SUPPLY BRACKET. See Page 8.

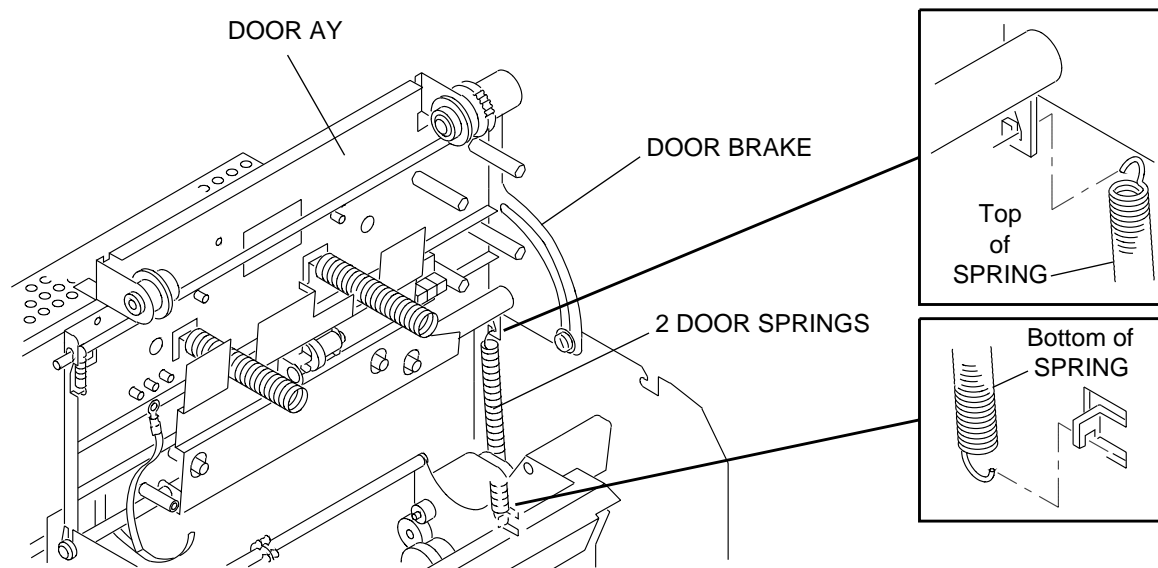
DOOR AY

Prerequisites:

[1] Remove:

- DOOR COVER - see Page 39
- ENCASUREMENT - see Page 40
- CONTROLLER ENCLOSURE AND DRAWER AY - see Page 63
- DONOR SUPPLY BRACKET AY - see Page 65
- MOTOR BRACKET AY - see Page 72
- FAN BRACKET AY - see Page 74
- THERMAL HEAD - see Page 75
- THERMAL HEAD LIFT SENSOR - see Page 82

To Remove:



A087_0035BCA
A087_0035BC

[1] Remove:

- 2 DOOR SPRINGS
- DOOR BRAKE
- DOOR AY by moving the AY up

To Install:

[1] Reverse the steps for the removal procedure.

Postrequisites:

[1] Do the following diagnostic tests. See the DIAGNOSTICS, Publication No. DG3179-1:

- “HEAD TEMP”
- “HEAD TEST”
- “DONOR TEST”
- “PICK/EJECT”

[2] Adjust:

- THERMAL HEAD LOAD GAP - see Page 24
- DONOR SENSOR

[3] Make a print to check for correct operation.

DOOR INTERLOCK SWITCH

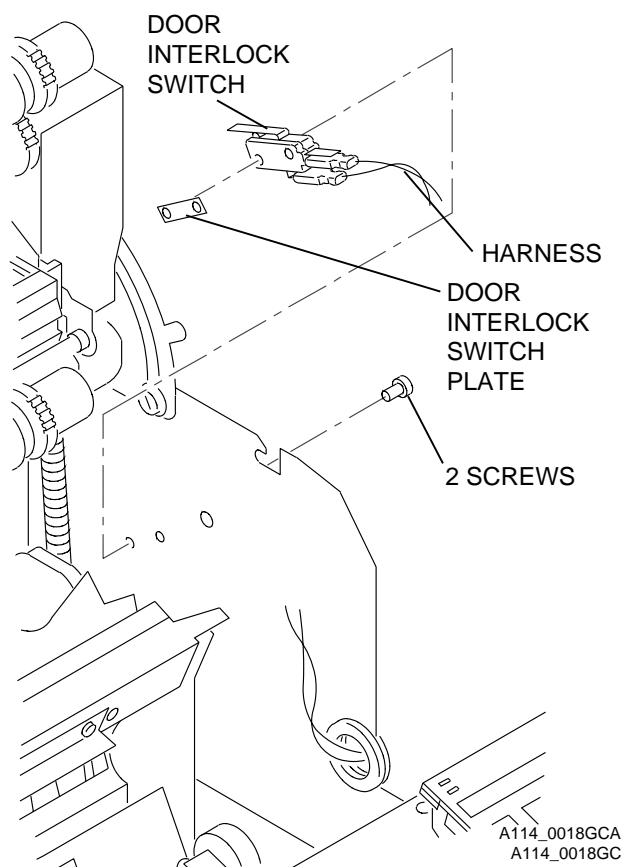
Prerequisites:

[1] Remove:

- DOOR COVER - see Page 39
- ENCASUREMENT - see Page 40

[2] Open the CONTROLLER ENCLOSURE AND DRAWER AY. See Page 63.

To Remove:



Caution

Do not allow the DOOR INTERLOCK SWITCH PLATE to fall into the PRINTER.

[1] Remove:

- 2 SCREWS
- DOOR INTERLOCK SWITCH PLATE
- DOOR INTERLOCK SWITCH and HARNESS
- CONNECTOR P6 from the CONTROLLER BD - see Pages 68 and 70

To Install:

[1] Reverse the steps for the removal procedure.

Postrequisites:

[1] Adjust the DOOR INTERLOCK SWITCH. See Page 31.

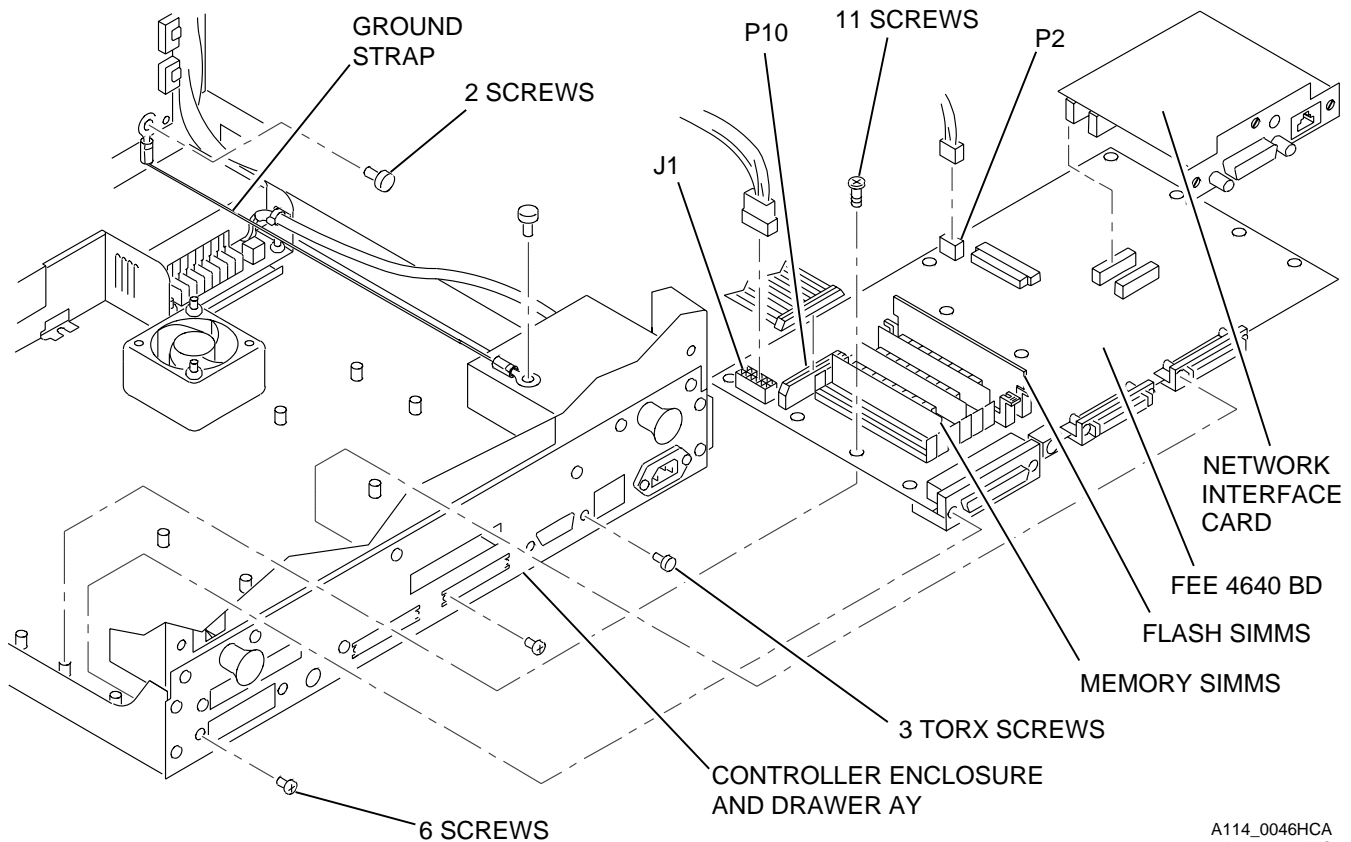
[2] Make a print to check for correct operation.

FEE 4640 BD - 8670 PS THERMAL PRINTER

Prerequisites:

[1] Open the CONTROLLER ENCLOSURE AND DRAWER AY. See Page 63.

To Remove:



A114_0046HCA
A114_0046HC

[1] Remove:

- 2 SCREWS
- GROUND STRAP

[2] Disconnect the CONNECTORS:

- J1
- P2
- P10

[3] If the NETWORK INTERFACE CARD is installed on the 8670 PS THERMAL PRINTER, remove:

- 3 TORX SCREWS from the CONTROLLER ENCLOSURE AND DRAWER AY
- NETWORK INTERFACE CARD from the FEE 4640 BD



Important

Do not remove the FLASH SIMMS.

[4] Remove:

- MEMORY SIMMS from the FEE 4640 BD
- 6 SCREWS from the CONTROLLER ENCLOSURE AND DRAWER AY
- 11 SCREWS from the FEE 4640 BD

To Install:

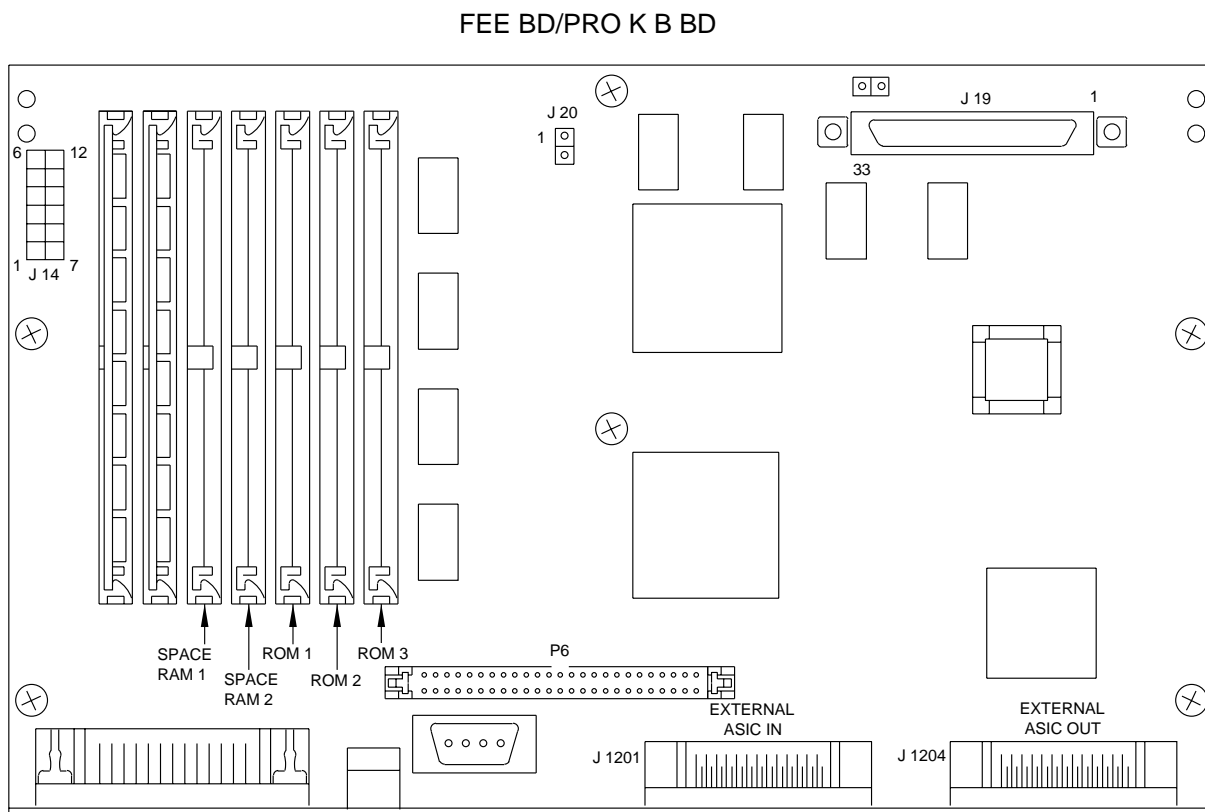
- [1] Reverse the steps in the removal procedure.

Postrequisites:

- [1] Make a print from the HOST COMPUTER.

FEE BD/PRO K B BD**Prerequisites:**

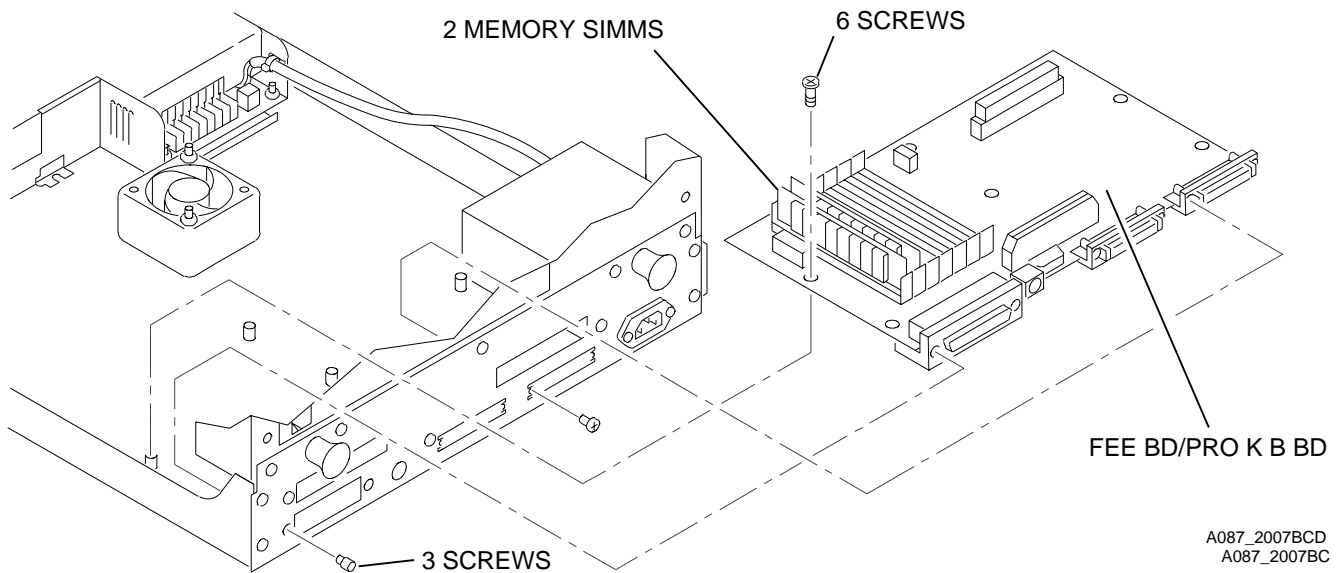
- [1] Open the CONTROLLER ENCLOSURE AND DRAWER AY. See Page 63.

To Remove:

A087_2053HC

[1] Remove:

- ROM SIMMS
- CONNECTOR J14
- CONNECTOR P6



[2] Remove:

- 2 MEMORY SIMMS
- 3 SCREWS
- 6 SCREWS

[3] Move the FEE BD/PRO K B BD forward.

[4] Lift and remove the FEE BD/PRO K B BD.



Important

The FEE BD/PRO K B BD is an exchange part.

[5] Return the BOARD.

To Install:

[1] Reverse the steps in the removal procedure.

Postrequisites:

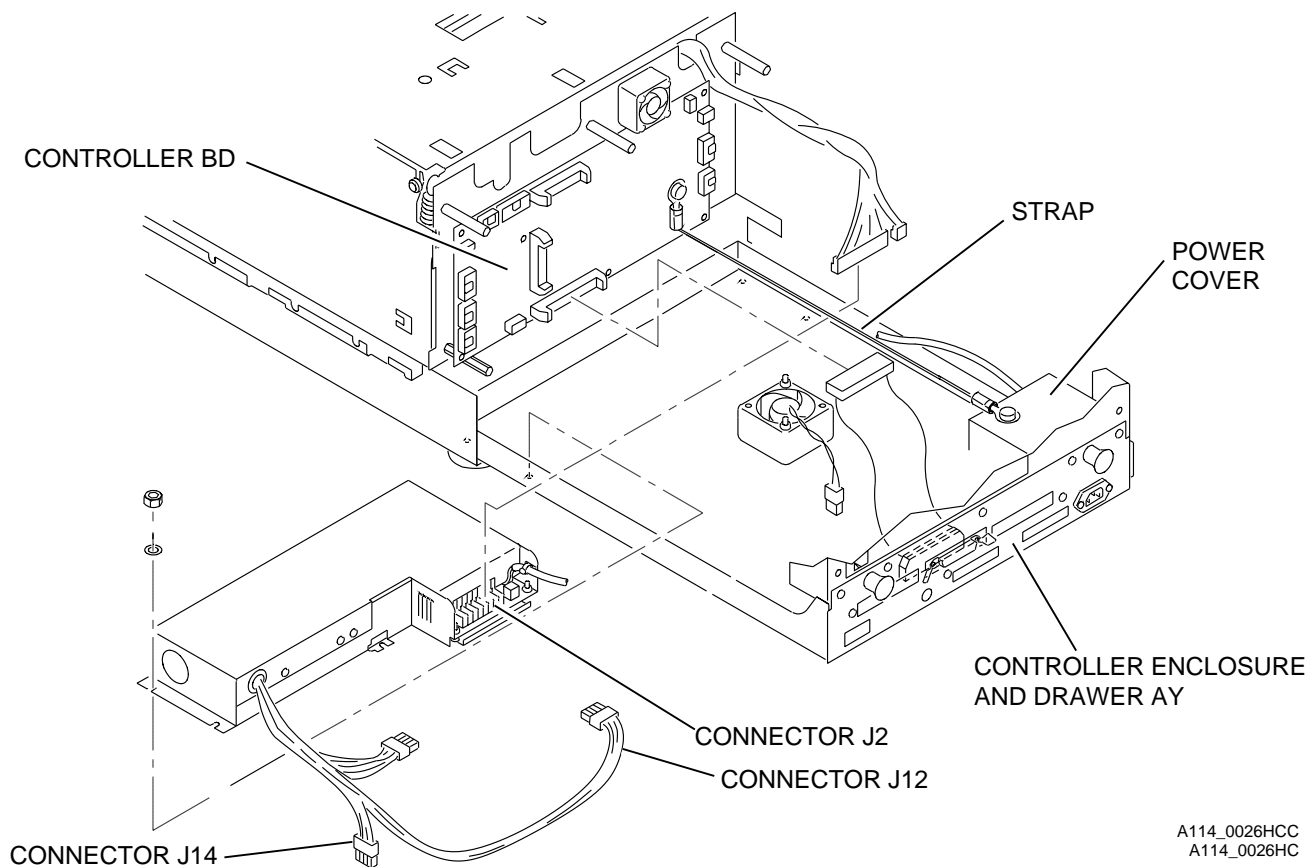
[1] Make a print from the HOST COMPUTER.

POWER SUPPLY

Prerequisites:

[1] Open the CONTROLLER ENCLOSURE AND DRAWER AY. See Page 63.

To Remove:

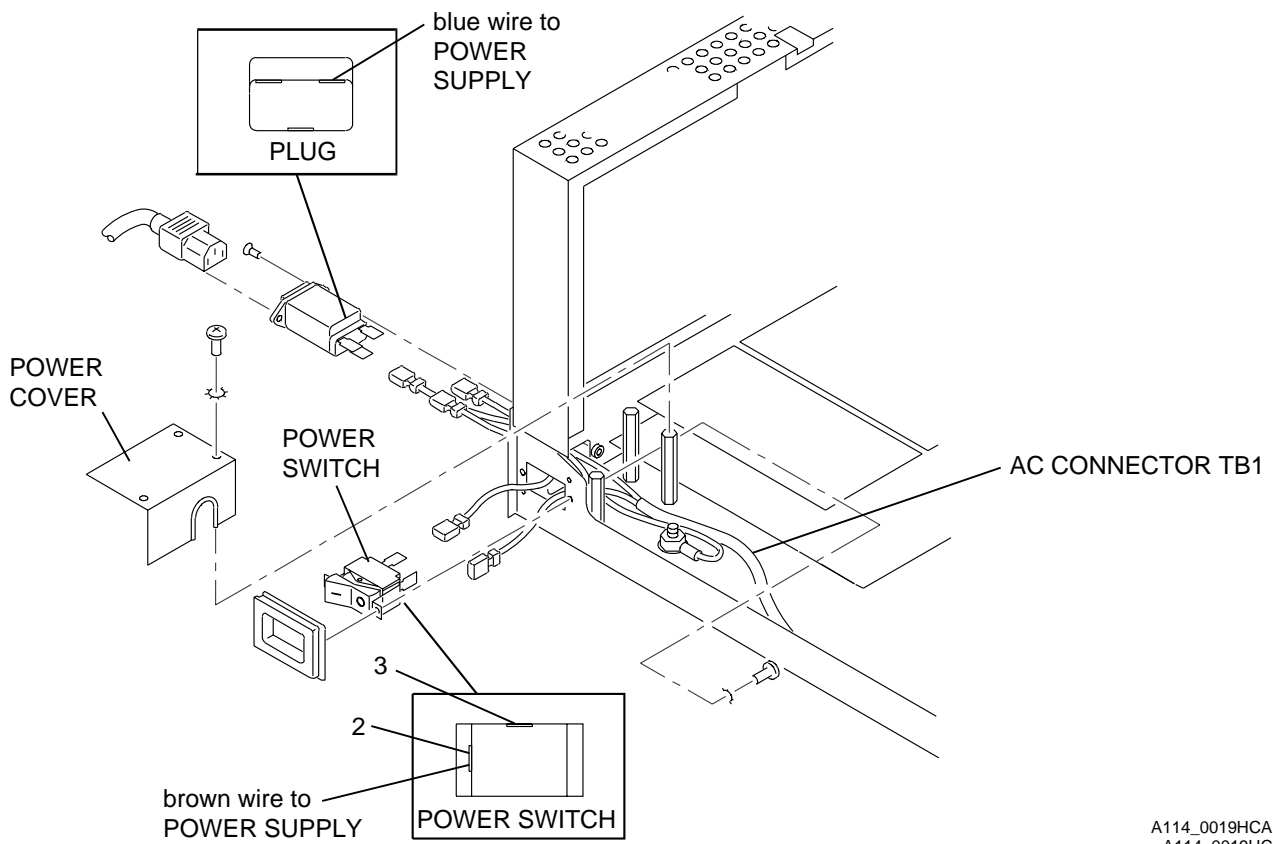


A114_0026HCC
A114_0026HC

[1] Pull the CONTROLLER ENCLOSURE AND DRAWER AY out.

[2] Remove:

- CONNECTOR J14 if the FEE BD is installed
- CONNECTOR J12
- STRAP from the POWER COVER
- CONNECTOR J2



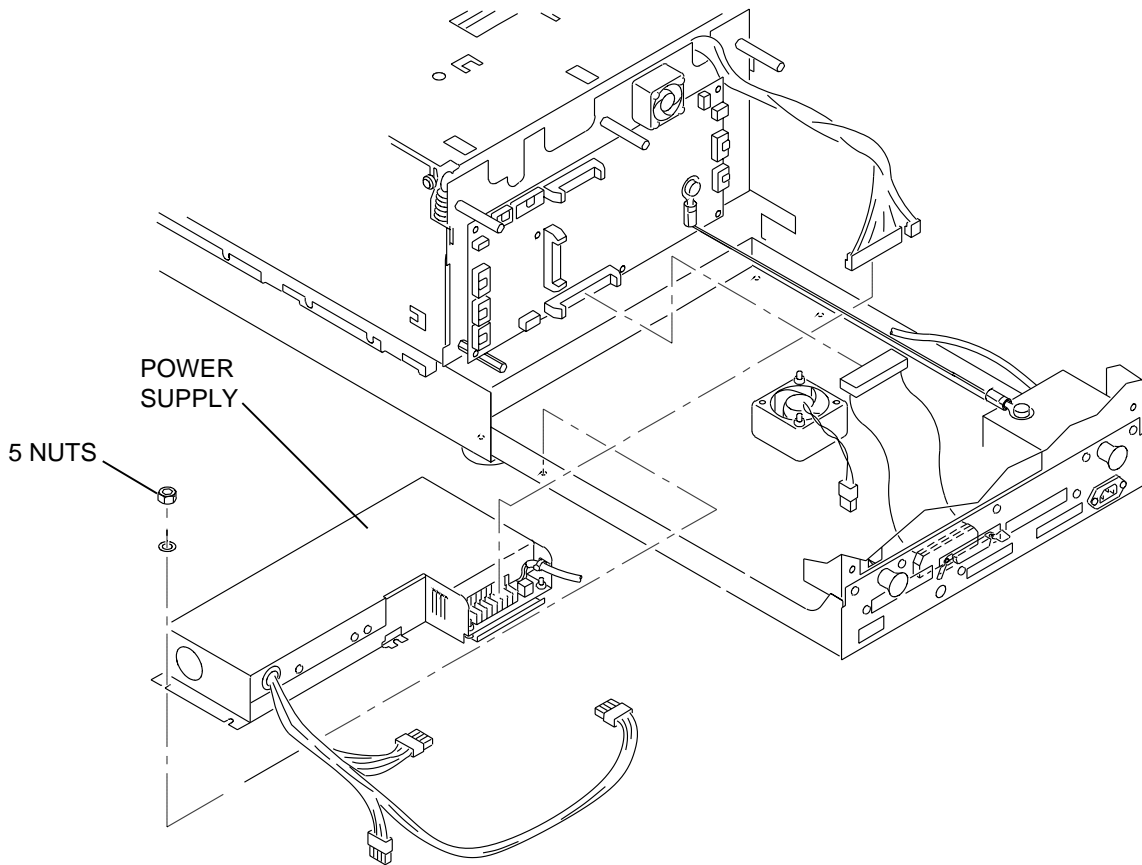
A114_0019HCA
A114_0019HC

[3] Remove:

- AC CONNECTOR TB1
- POWER COVER

[4] Disconnect:

- brown wire from position 2 on the POWER SWITCH
- blue wire on the PLUG



A114_0026HCB
A114_0026HC

[5] Remove:

- 5 NUTS
- POWER SUPPLY

To Install:

- [1] Reverse the steps for the removal procedure.

Postrequisites:

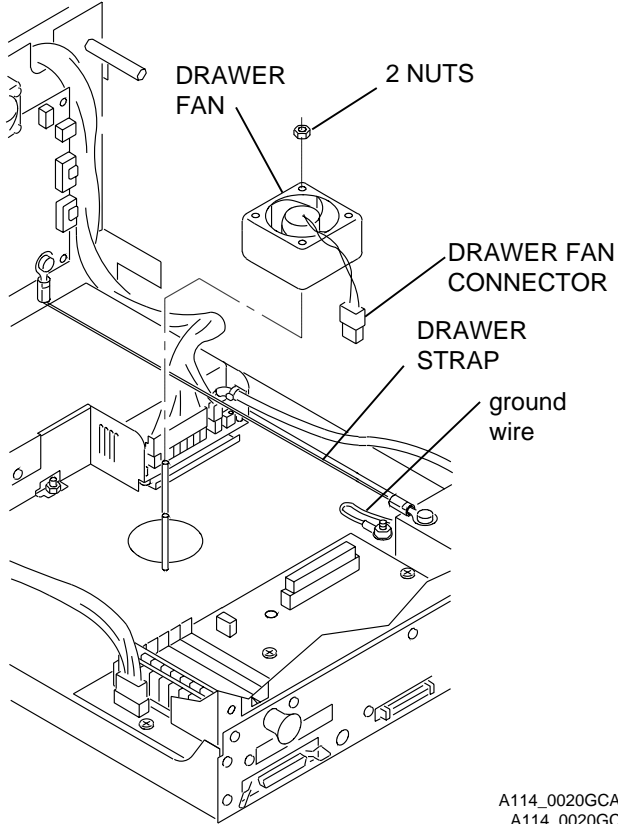
- [1] Adjust the voltage of the THERMAL HEAD. See Page 20.
[2] Make a print to check for correct operation.

DRAWER FAN

Prerequisites:

[1] Open the CONTROLLER ENCLOSURE AND DRAWER AY. See Page 63.

To Remove:



[1] Disconnect the DRAWER FAN CONNECTOR.

[2] Remove:

- DRAWER STRAP
- 2 NUTS
- DRAWER FAN
- ground wire

To Install:

[1] Reverse the steps for the removal procedure.

Postrequisites:



Warning

Dangerous Voltage

[1] Energize the PRINTER.

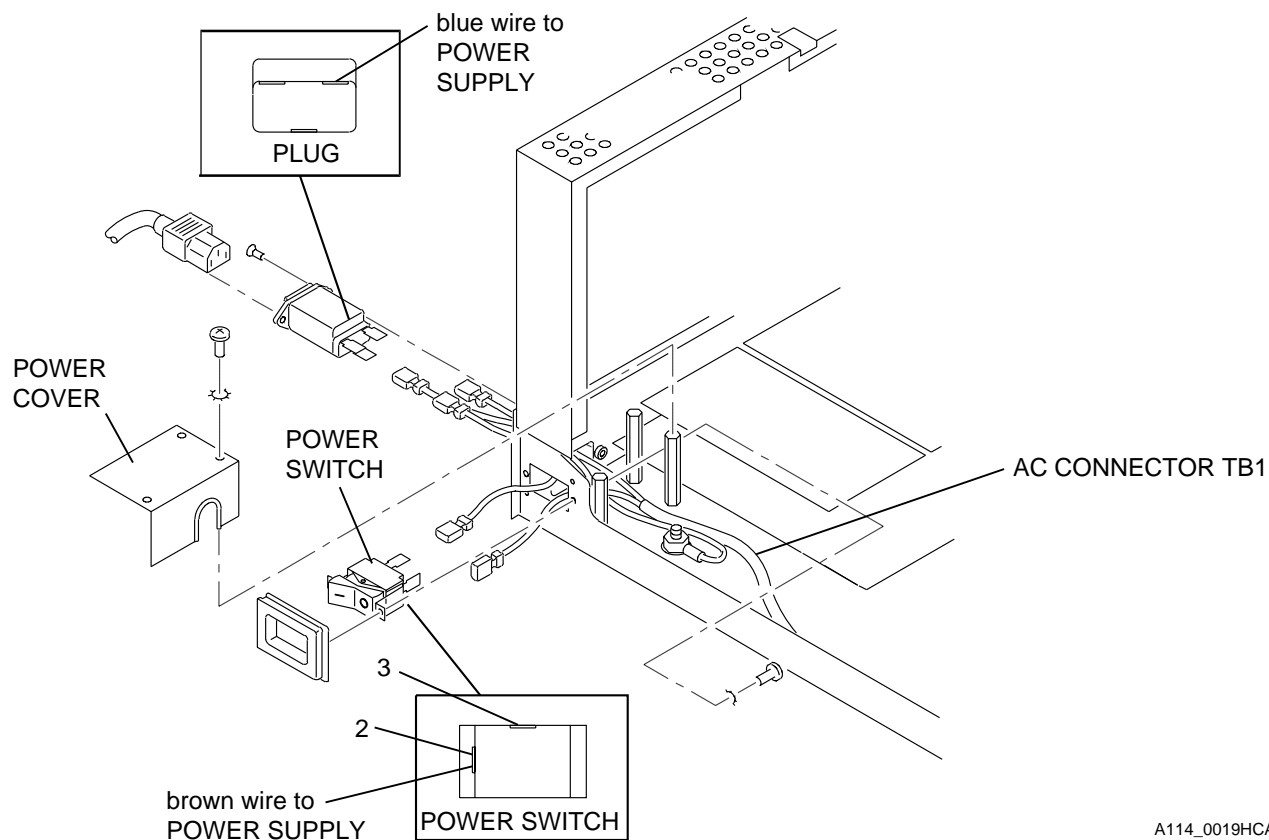
[2] Check for correct operation.

PLUG

Prerequisites:

[1] Open the CONTROLLER ENCLOSURE AND DRAWER AY. See Page 63.

To Remove:



A114_0019HCA
A114_0019HC

[1] Remove:

- 3 SCREWS from the POWER COVER
- POWER COVER
- 2 SCREWS from the PLUG
- PLUG
- ground wire
- black wire
- blue wire

To Install:

[1] Reverse the steps for the removal procedure.

Postrequisites:

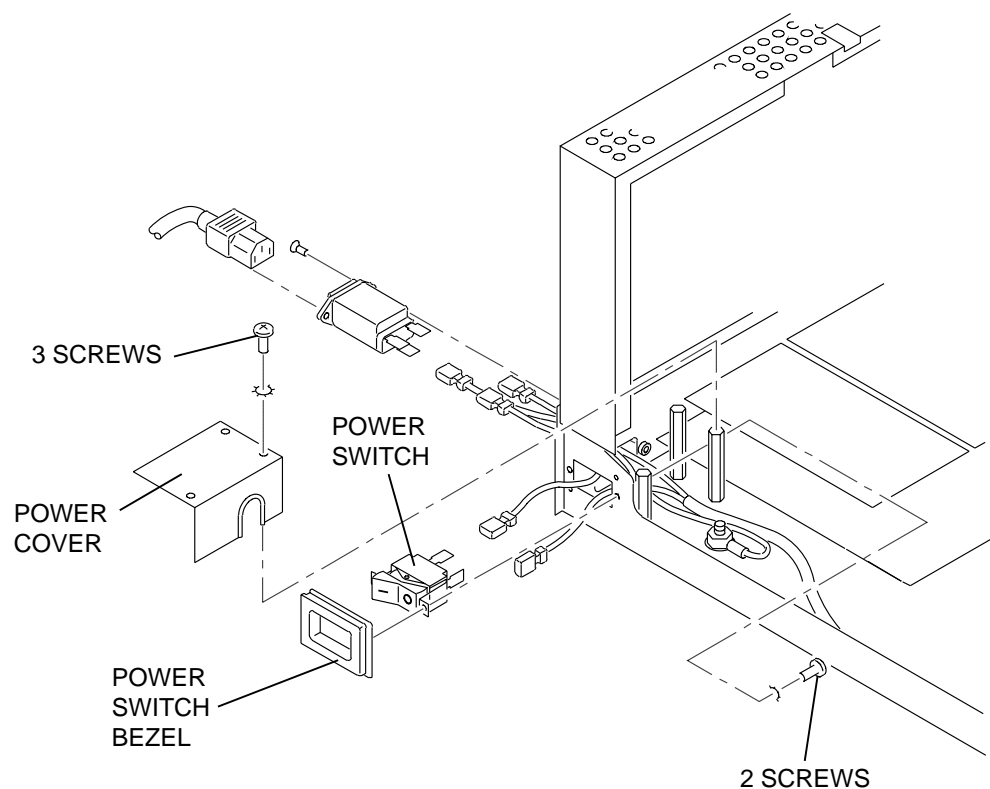
None

POWER SWITCH

Prerequisites:

[1] Open the CONTROLLER ENCLOSURE AND DRAWER AY. See Page 63.

To Remove:



A114_0021HCA
A114_0021HC

[1] Remove:

- 3 SCREWS from the POWER COVER
- POWER COVER
- 2 SCREWS from the POWER SWITCH
- POWER SWITCH BEZEL
- POWER SWITCH

To Install:

[1] Reverse the steps for the removal procedure.

Postrequisites:

None

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