

5000 Series Printheads
REPLACEMENT INSTRUCTIONS

5120/5240/5122

FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

Note: Good quality, shielded (braided shielded) cables must be used for the RS-232-C and Centronics interfaces.

Canadian EMI Compliance Statement

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

EMI-CISPR 22/EN 55 022/CE Marking

Warning: This is a Class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

5000 Series Printheads Replacement Instructions, 5120/5240/5122

Part Number	Revision	Date	Description	ECN
0113480	001	12/2001	Revised for 5000 series, combined all three printheads	SDP170

Previous Releases

Part Number	Revision	Date	Description	ECN
0113453	002	06/2001	5122 printhead	PKG981
0113927	001	04/1998	Addendum for current 5240	PKG108
0113650	001	01/1997	5120 printhead	08975
0113705	000	03/1996	Early 5240 printhead	08278

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Scope

These instructions describe how to replace any of the following Scitex Dijit® 5000 Series Printheads:

- 5120
- 5240
- 5122.

These instructions apply only to the currently manufactured models of printheads.

Text Notations

This manual uses the following typographical conventions.

This style	Refers to
Ready	Text displayed by the software.
go	Anything you type, exactly as it appears, whether referenced in text or at a prompt.
ENTER	Special keys on the keyboard, such as enter, alt, and spacebar.
[NEXT]	Buttons and lights on the printer operator panel.
Save	Software command buttons and sections of dialog boxes, such as group boxes, text boxes, and text fields.
File → Open	A menu and a specific menu command.
ALT+F1	Pressing more than one key at the same time.
ALT, TAB	Pressing more than one key in sequence.
xx,yy	Variable in error messages and text.
jobfile.dat	File names.

Safety Notations

The following definitions indicate safety precautions to the operator.

Note: Information that needs to be brought to the reader's attention.

Caution: A situation where a mistake could result in the destruction of data or system-type damage.



WARNING

A potential hazard that could result in serious injury or death.



DANGER

An imminent hazard that will result in serious injury or death.

Service and Support

Technical equipment support is available 24 hours a day, 7 days a week.

Software and applications support is available 8:00 a.m. to 5:00 p.m. EST/EDT, Monday through Friday.

	Phone	Fax
U.S.A. and Canada Field/Telephone support	1-800-4SCITEX (1-800-472-4839)	+1-937-259-3808
Europe Field/Telephone support	+4121-806-0404	+4121-806-1920
Asia/Pacific Rim Field/Telephone support	+65-744-6400	+65-744-6700
Japan Field/Telephone support	+81-3-3256-2613	+81-3-3256-2616
Worldwide Technical support, order placement, documentation, and product information requests	+1-937-259-3739	+1-937-259-3808
Worldwide Automated FaxBack™ Information Line	+1-937-259-3520	
Internet Updated service information	http://www.scitexdpi.com	

The above telephone number listing is accurate as of the publication date. On the Internet, go to <http://www.scitexdpi.com/support> for updated telephone numbers.

Replacement Procedures

The following sections describe how to remove and install the following three 5000 series printheads:

- 5120
- 5240
- 5122.

General Guidelines

The 5240 procedure applies only to the currently manufactured 5240 (serial numbers 3000 and higher).

Printheads must be re-packed in the original shipping container. Always retain the box and all packing materials sent with the printhead.

Always take ESD precautions when handling a printhead.

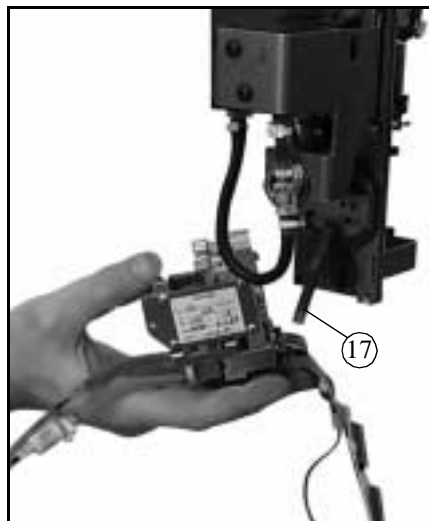
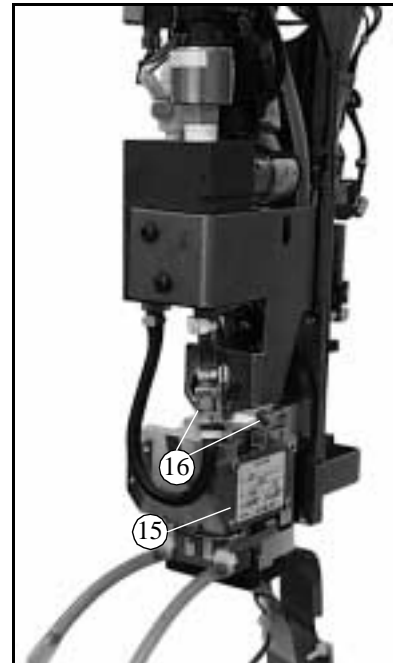
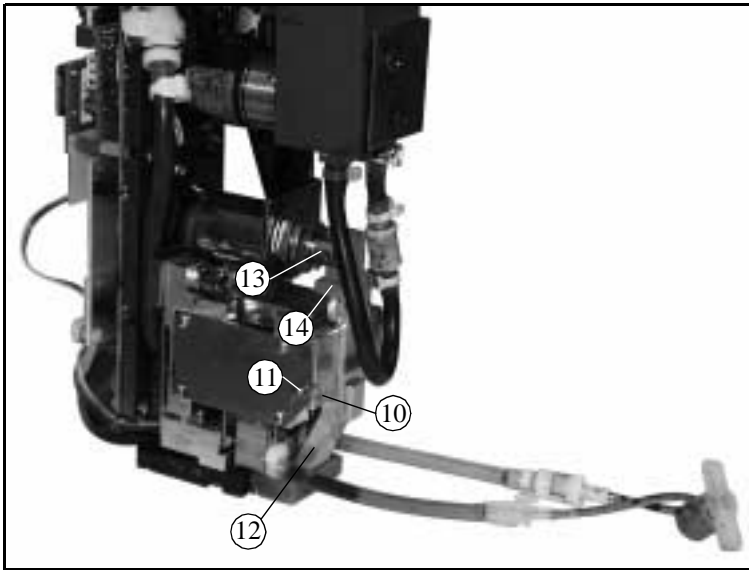
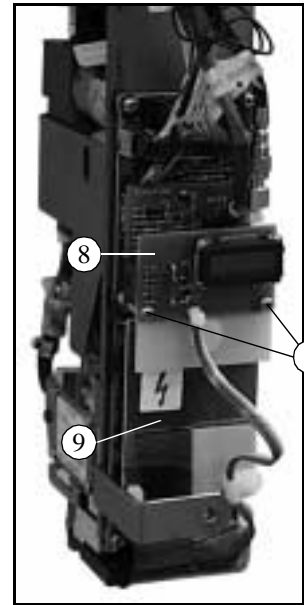
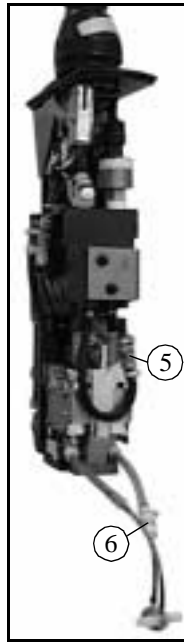
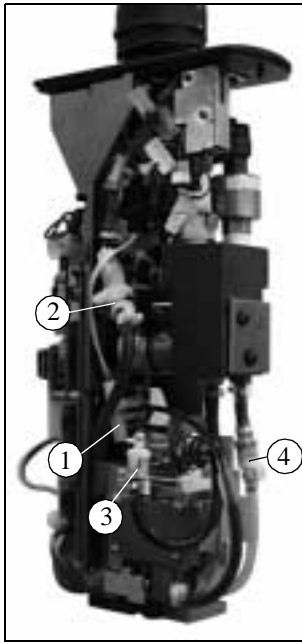
Release all printhead tubing quick disconnects by pressing the release button and gently pulling back the fitting. Some fittings are twist-lock connectors rather than quick-disconnects.

Before removing the starting the removal procedure, record the printhead hours. Hours are displayed by Jetscape diagnostics under **Fluid System** → **Status**.

For a 5240 printhead, record the eyelid serial number along with the printhead serial number (control number). Check that the eyelid number matches the printer number when installing a printhead.

Remove the front, rear, and bottom printhead covers before starting the printhead removal procedure. Cover removal is not shown.

Replacement Procedures



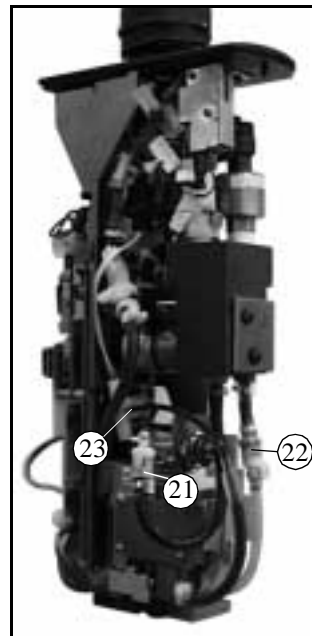
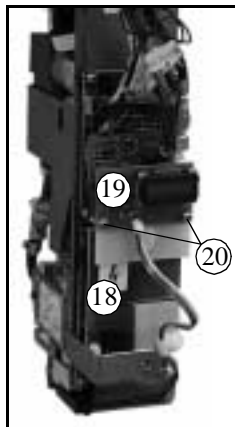
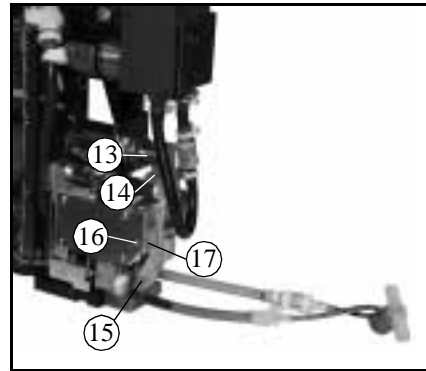
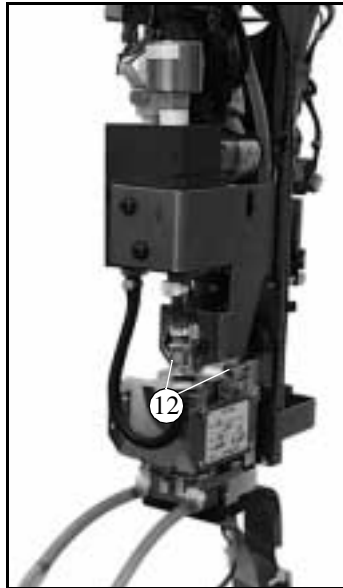
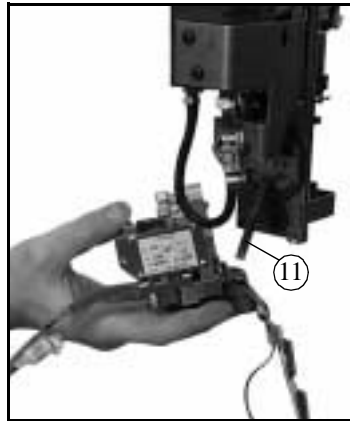
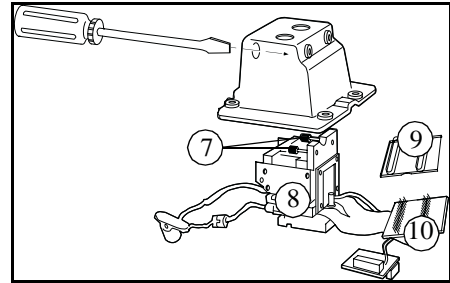
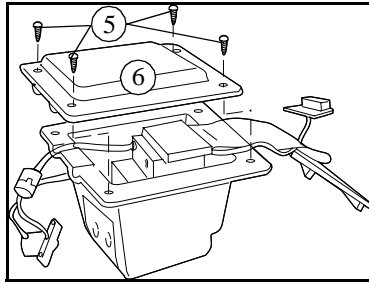
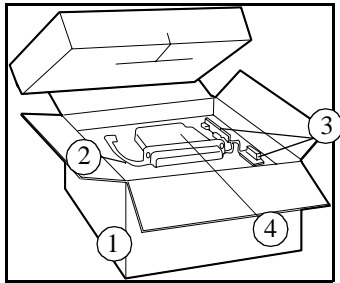
5120 Printhead

Removal

Use the following procedures to remove a 5120 printhead and install a replacement printhead.

1. Turn off the printer by pressing [PRINTER ON].
 2. Release the printhead filter (1) from its clip.
 3. Disconnect the printhead catcher fluid tube quick disconnect fitting from the printhead assembly catcher fluid tube fitting (2).
 4. Disconnect the quick disconnect fitting on the inlet line (3).
 5. Allow the printhead ink to drain back into the ink supply. Allow several seconds, or until the line looks empty.
 6. Reconnect the catcher tube (2).
 7. Disconnect the quick disconnect fitting on the outlet line (4).
 8. Connect the manifold sides of the ink inlet and outlet together (5).
 9. Connect the printhead sides of the ink inlet and outlet together (6).
 10. Remove the two screws (7) securing the resonator board (8) to its standoffs and unplug it from its connector.
 11. Carefully unplug the paddle board (9) from its two connectors.
 12. Remove the cotter pin (10) securing the eyelid pin (11), and then pull out the eyelid pin.
 13. Remove the eyelid (12), plunger (13) and attached actuator arm (14). The plunger and arm will separate from the eyelid. Retain the eyelid, plunger, and arm; they must be used with the replacement printhead.
- Note: On older 5120 printheads, squeeze the retaining pins to release the eyelid assembly and pull it out.
14. Support printhead (15), then loosen the two captive screws (16) securing the printhead to the housing.
 15. Lower the printhead to reach the catcher tube (17) and disconnect it.
 16. Remove the printhead and place it on a static-protected surface.
 17. Pack the printhead in its original container for storage or return. See the *Packing Instructions* (0113479).

Replacement Procedures



Unpacking

1. If the printhead is unpacked, skip to “Installation.”
2. Remove the inner carton (1) and open it.
3. Remove the top piece of foam and the print sample.
4. Remove the printhead filter (2) and paddle board (3) from the cutouts in the foam.
5. Remove the printhead shipping case (4) from the inner carton.
6. Place the shipping case on an anti-static work surface, and then remove the four screws (5) that secure its cover (6). Remove the cover.
7. Turn the case over, and then partially remove the tape covering the holes for the two captive screws (7) that secure the printhead (8) inside the case.
8. Support the printhead or rest it on the anti-static surface, then loosen the captive screws. Remove the case.
9. Remove the pin protector (9) from the paddle board connectors (10).

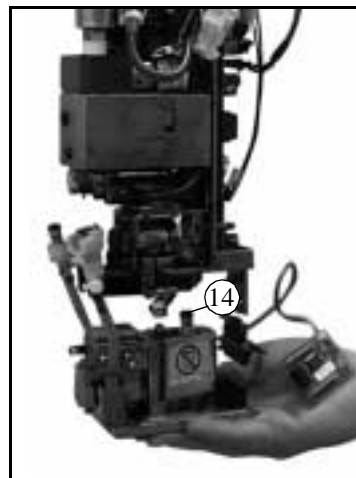
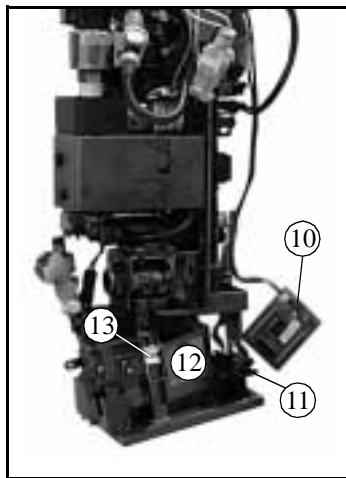
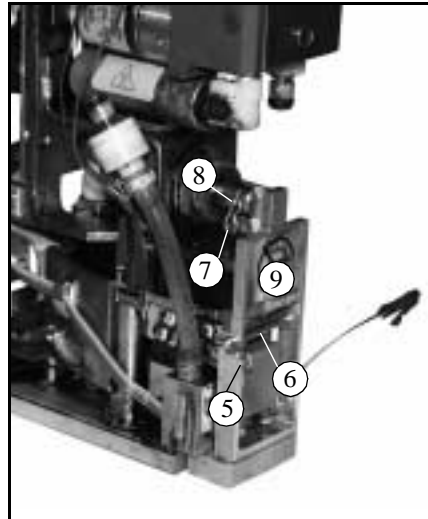
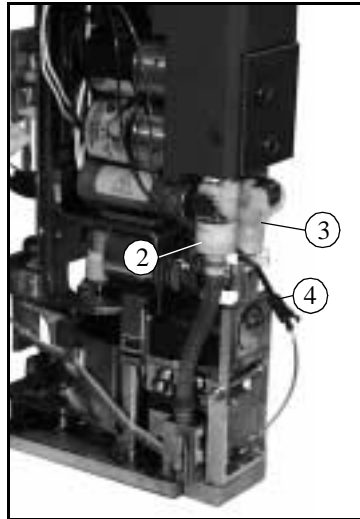
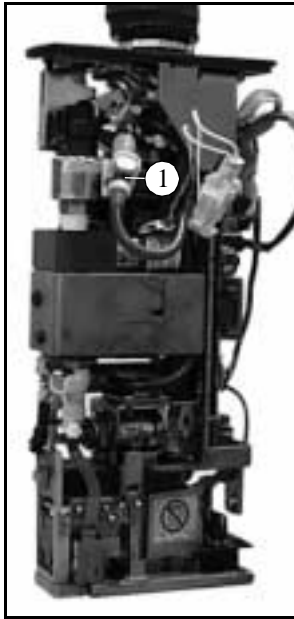
Installation

1. Support the printhead underneath the shelf bracket on the umbilical housing.
2. Connect the catcher line to the nipple on the printhead.
3. Tighten the two captive screws that secure the printhead to the housing shelf.
4. Install the plunger (13) and actuator arm (14).
5. Position the eyelid (15) and check that both springs are properly aligned, then install the eyelid pin (16). Secure the eyelid pin with its cotter pin (17).

Note: On older 5120 printheads, align the springs in the eyelid, and then squeeze the retaining pins to fit the cutouts in the eyelid over them. Release the retaining pins to secure the eyelid.

6. Check the eyelid for proper movement.
7. Plug in the paddle board (18).
8. Align the resonator board (19) on its standoffs, plug it in, and then secure it with two screws (20).
9. Connect the inlet lines.
10. Connect the outlet lines.
11. Install the printhead filter in its clip on the umbilical housing.
12. Replace the front, rear, and bottom covers.

Replacement Procedures



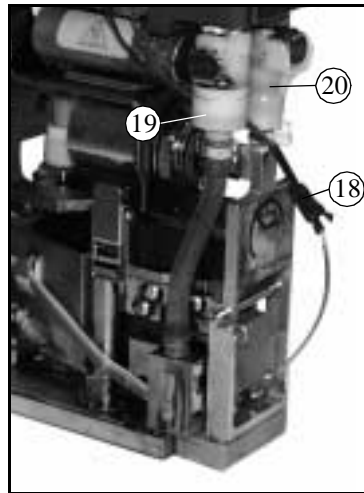
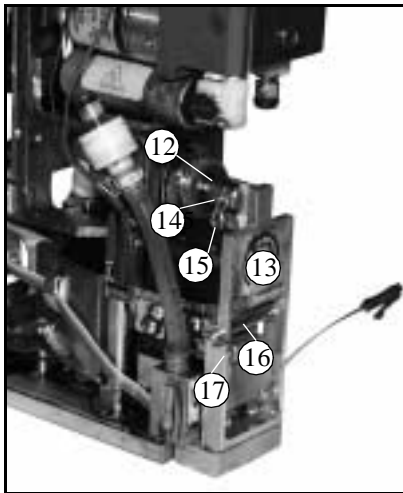
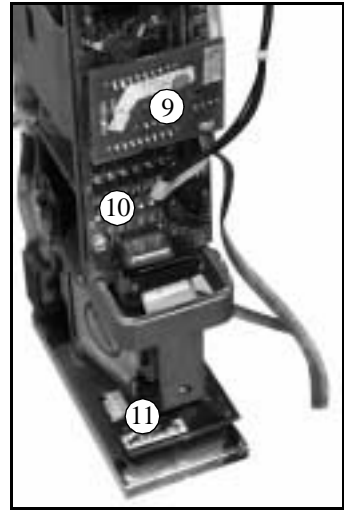
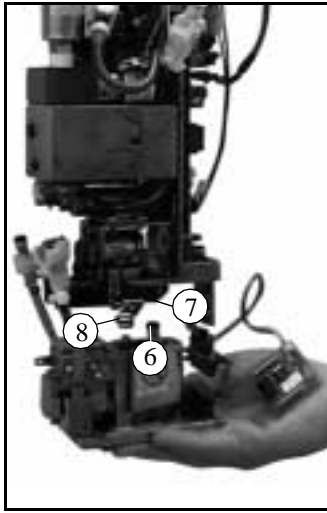
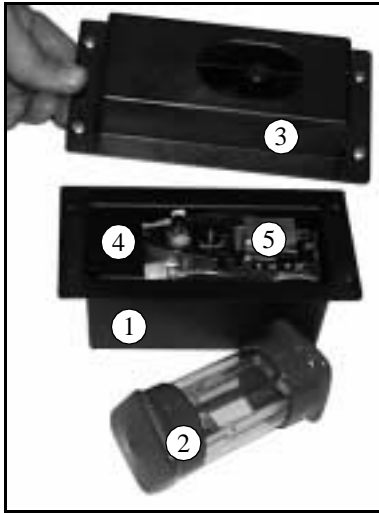
5240 Printhead

Removal

Use the following procedures to remove a 5240 printhead and install a replacement printhead.

1. Turn off the printer by pressing [PRINTER ON].
2. Disconnect the catcher line (1) quick disconnect.
3. Disconnect the inlet (2) quick disconnect.
4. Allow residual ink to drain.
5. Disconnect the outlet (3) quick disconnect.
6. Remove the eyelid heater connector (4).
7. Remove the cotter pin (5) securing the eyelid pin (6), and then remove the eyelid pin.
8. Remove the cotter pin (7) from the plunger pin (8), and then remove the plunger pin.
9. Remove the eyelid (9). Retain the plunger with its retaining pin and cotter pin. The plunger is not returned with the printhead; it must be used with the replacement printhead.
10. Disconnect the NV RAM board (10) from the stand off.
11. Disconnect the board (11) from the connector on the printhead (leave the board attached to the housing by its flex cable).
12. Support the printhead (12), and then release the latches (13) that secure the printhead to the nest.
13. Disconnect the printhead catcher fitting (14).
14. If you did not yet disconnect the inlet and outlet lines (2 and 3) at the quick disconnects, disconnect them now.
15. Remove the printhead from the nest.
16. Cap the catcher, printhead inlet, and outlet lines (1, 2, and 3). Use the caps originally shipped with the printhead.
17. Pack the printhead in its original container for storage or return. See the *Packing Instructions* (0113479).

Replacement Procedures



Unpacking

1. If the printhead is unpacked, skip to “Installation.”
2. Open the outer carton and remove the top piece of foam.
3. Open the inner carton and remove the top piece of foam.
4. Remove the printhead shipping case (1) and eyelid tube (2) from the inner carton.
5. Place the shipping case on an anti-static work surface, and then remove the four screws that secure its cover (3). Remove the cover.
6. Remove the hose retainer (4).
7. Remove the printhead (5) with its attached NV-RAM board from the case.

Installation

1. Remove the cap from the printhead catcher line. Retain the cap for printhead storage or return.

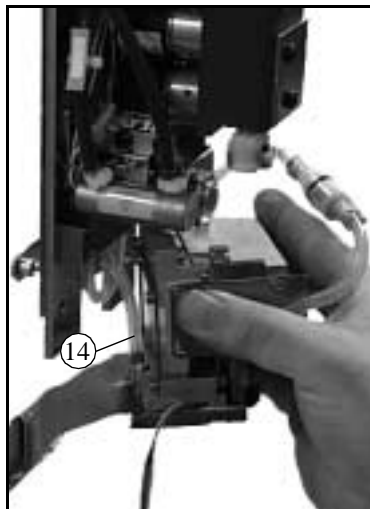
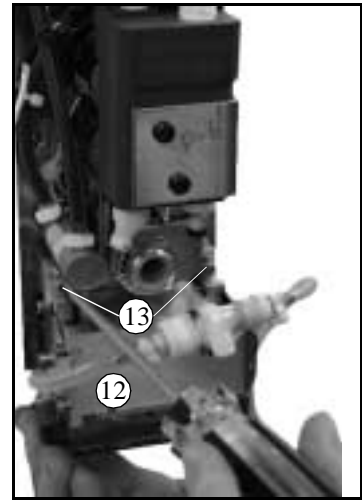
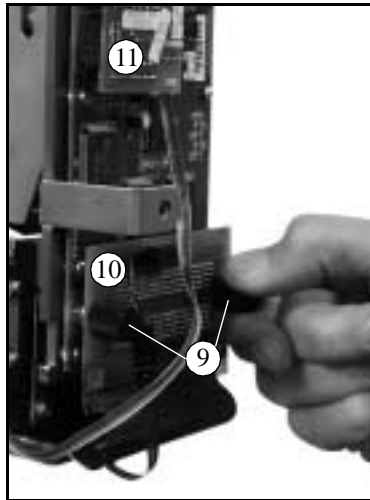
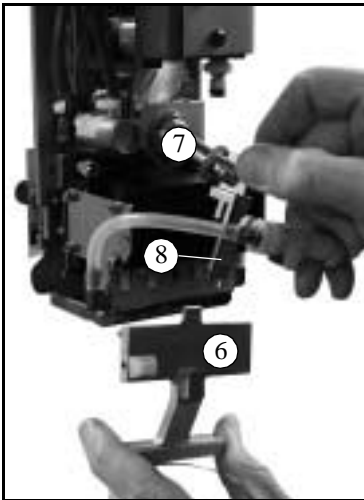
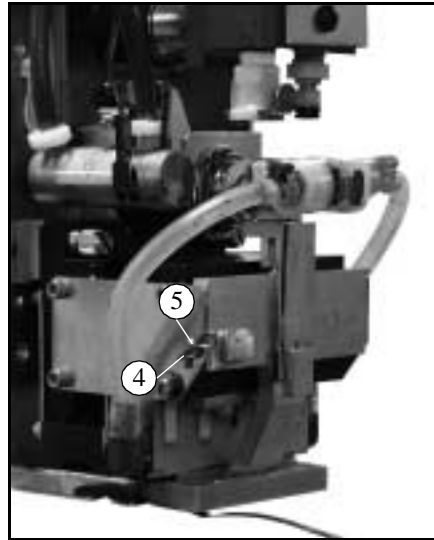
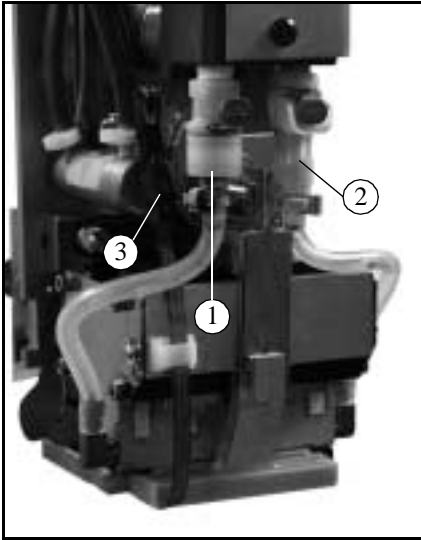
Note: Check that the O-ring on the catcher line (6) is flexible. If the O-ring is stiff, moisten it with water before performing step 2.

2. Support the printhead under the printhead nest and connect the catcher line quick-disconnect (7).
3. Fasten the two latches (8) to secure the printhead to the nest.
4. Align the pins on the NV-RAM board (9) connectors and plug the board into the connectors on the charge driver interface board (10).
5. Align the pins on the PCB (11) with the connector on the printhead charge plate and gently plug together.
6. Remove the caps on the inlet and outlet lines, and the pin protector from the flex cable connector.
7. Remove the eyelid from its tube. Retain the tube for storage or return.
8. Connect the plunger (12) to the eyelid (13) with the plunger pin (14). Secure the plunger pin with the cotter pin (15). Check that the e-clip (snap ring) is in place on the other end of the plunger pin is in place.

Caution: Check that both eyelid springs are aligned in the holes on the the printhead frame.

9. Install the eyelid and secure it with the eyelid pin(16). Secure the eyelid pin with its cotter pin (17).
10. Connect the heater plug (18) to the printhead electrical connector.
11. Connect the inlet lines (19) and connect the outlet lines (20).
12. Check the eyelid for proper movement.
13. Replace the front, rear, and bottom covers.

Replacement Procedures



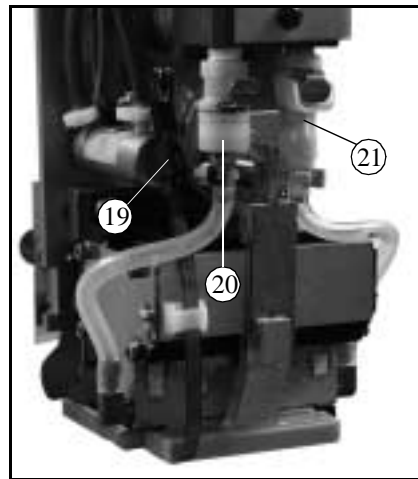
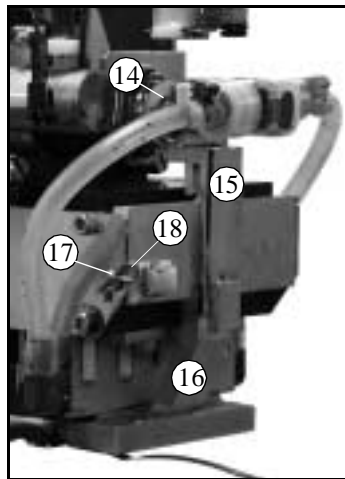
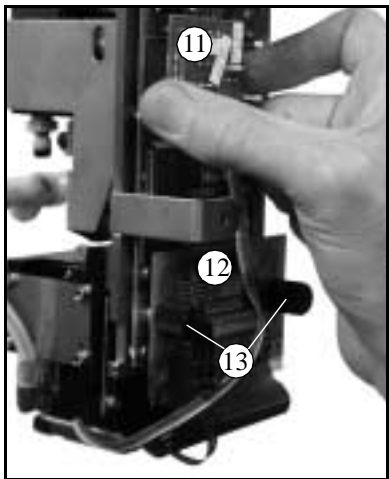
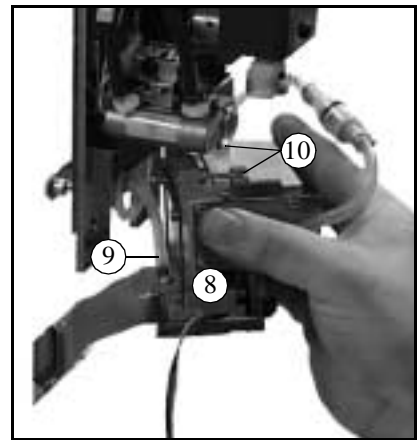
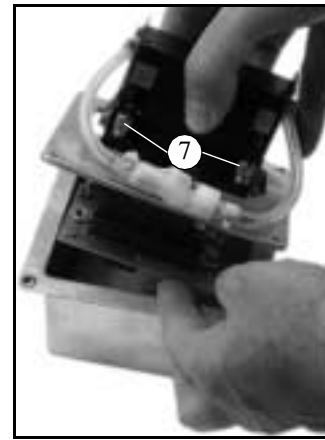
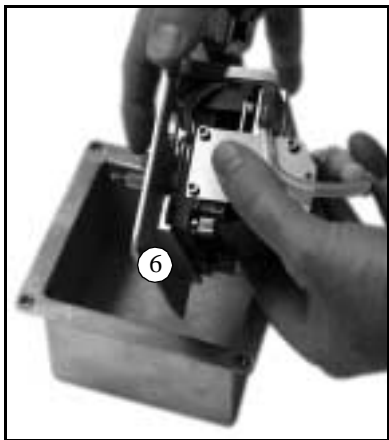
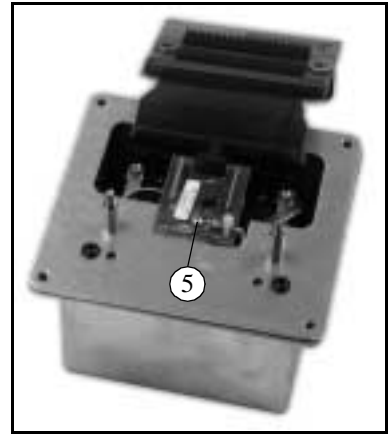
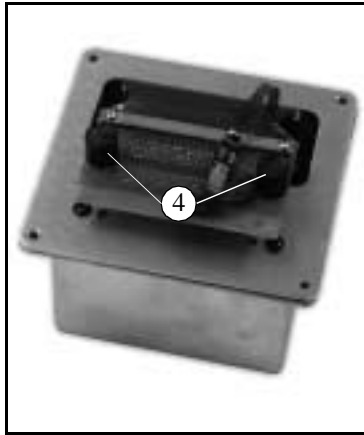
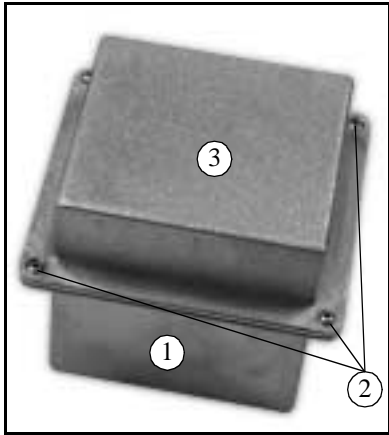
5122 Printhead

Removal

Use the following procedures to remove a 5122 printhead and install a replacement printhead.

1. Turn off the printer by pressing [PRINTER ON].
2. Disconnect the inlet (1) and outlet (2) line quick disconnects, and then connect the lines to each other.
3. Disconnect the 2-wire heater cable (3).
4. Remove the cotter pin (4) securing the eyelid pin (5), and then remove the eyelid pin.
5. Remove the eyelid (6), plunger (7) and attached actuator arm (8). The plunger and arm will separate from the eyelid. Retain the eyelid, plunger, and arm; they must be used with the replacement printhead.
6. Loosen the thumbscrews (9) securing the flex cable connectors and unplug the flex cable (10).
7. Unplug the stim board (11).
8. Support the printhead (12), and then loosen the two captive screws (13) securing it to the housing.
9. Disconnect the catcher line (14), and then remove the printhead.
10. Pack the printhead in its original container for storage or return. See the *Packing Instructions* (0113479).

Replacement Procedures



Unpacking

1. If the printhead is unpacked, skip to “Installation.”
2. Open the outer carton and remove the top piece of foam.
3. Open the inner carton and remove the packing material.
4. Remove the bubble package containing the printhead shipping case from the inner carton.
5. Remove the shipping case (1) from the bubble package.
6. Place the shipping case on an anti-static work surface, and then remove the four screws (2) that secure its cover (3). Remove the cover.
7. Loosen the thumbscrews (4) securing the printhead to the case.
8. Remove the screw (5) securing the stim board to the case.
9. Remove the printhead and attached intermediate plate (6) from the case.
10. Remove the screws (7) and standoffs securing the plate to the printhead.
11. Continue with “Installation.”

Installation

12. Support the printhead (8) under the umbilical housing, and connect the catcher line (9).
13. Tighten the two screws that secure the printhead to the housing (10).
14. Plug in the stim board (11).
15. Plug in the flex cable (12).
16. Tighten the two thumbscrews (13) that secure it to the charge driver board.
17. Install the plunger (14), its attached actuator arm (15), and the eyelid (16).
18. Secure the eyelid with the eyelid pin (17). Secure the eyelid pin with its cotter pin (18).
19. Connect the 2-wire heater cable (19).
20. Disconnect the printhead inlet (20) and outlet lines (21) from each other, and then connect each line to the manifold.
21. Check the eyelid for proper movement.
22. Replace the front, rear, and bottom covers.

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0113480

