

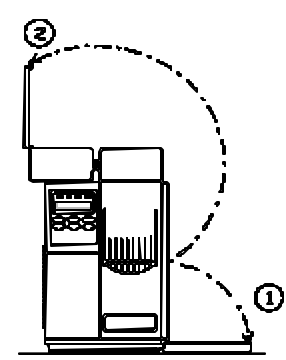
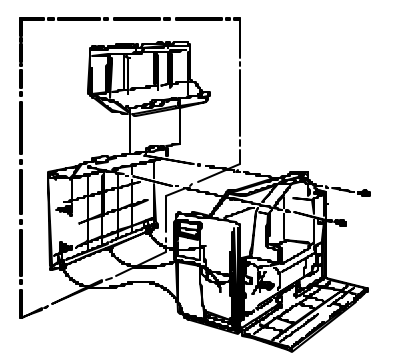
SIGMA DATA 7200 READ MAGNETIC HEAD REPLACEMENT INSTRUCTIONS

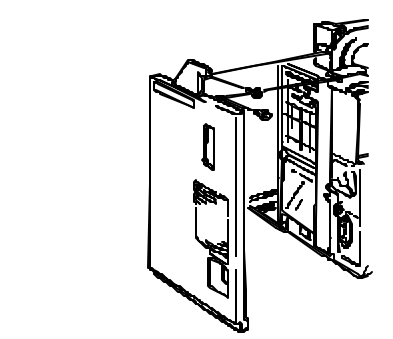
Tools Required:

- No.2 Phillips screwdriver (long length)
- Wrist strap (or similar device) for ESD grounding

To Prepare the Printer for Maintenance:

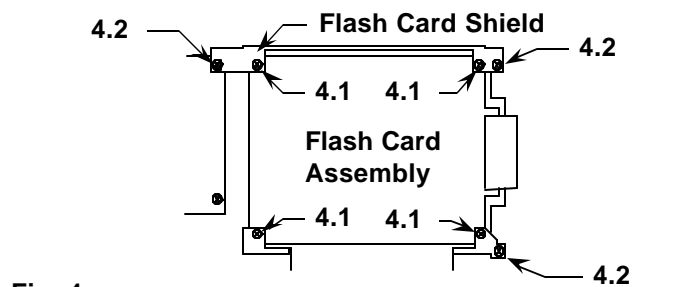
1. Verify that all replacement parts and tools are present.
2. Turn off the power switch, unplug the AC power cord, and disconnect all communication and interface cables.

<p>3. (1) Unlock and open the Lower Right Side Cover then (2) open the Upper Right Side Cover completely, until it rest on the Service Cover (Fig.1).</p> <p>4. Remove the Service Cover by removing the two M3 Phillips screws holding the Service Cover to the upper frame of the printer (Fig. 2).</p>	 <p>Fig. 1</p>	 <p>Fig. 2</p>
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<p>5. Loosen or remove two M3 Phillips screws, located on the topside of the Back Panel, and remove the Back Panel from the printer.</p>	 <p>Fig. 3</p>
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To Replace the Read Magnetic Head Assembly:

IMPORTANT: Properly ground yourself using an ESD wrist strap (or similar device) to prevent static discharge damage to the electronics.

<p>6. Remove the four M3 Phillips tapping screws [4.1] from the Flash Card Assembly. Remove three M3 Phillips tapping screws [4.2] located in the corners of the Flash Card Shield then disconnect the Flash Card Assembly from the Main PCB Assembly.</p>	 <p>Fig. 4</p>
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7. Disconnect all connectors from the Main PCB Assembly. Remove the long M3 Phillips tapping screw [5.3] and the BCR Guide [5.4], located below the Main PCB Assembly [5.5] on the inside base of the printer chassis. Then remove three remaining M3 Phillips tapping screws [5.6] and the Main PCB Assembly from the printer.

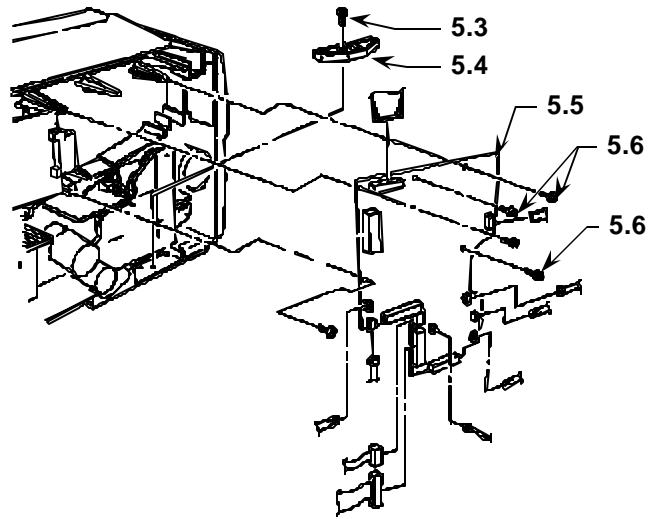


Fig. 5

8. Tilt the printer until the Service side is face down and the bottom side is in view for disassembly.

9. Remove six M3 Phillips tapping screws [6.7] and the two M3 Phillips screws [6.8]. Remove the Base Plate from the bottom side of the printer chassis.

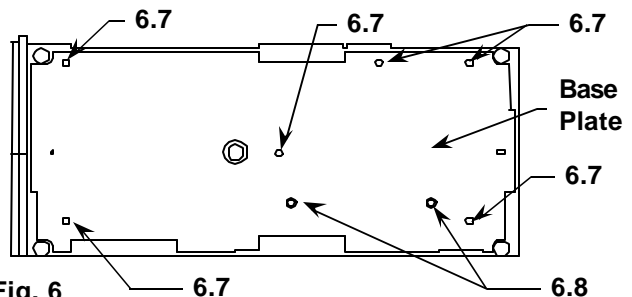


Fig. 6

10. Remove seven M3 Phillips tapping screws [7.9]. Carefully shift the Read/Write Interface PCB Assembly to the right then gently pull the left end of the PCB Assembly out from the base of the printer. **IMPORTANT:** Notice how the arm of the sensor component, located on the backside and to the right end of the PCB Assembly, extends over the Read Magnetic Assembly Cable when the PCB Assembly is pulled out.

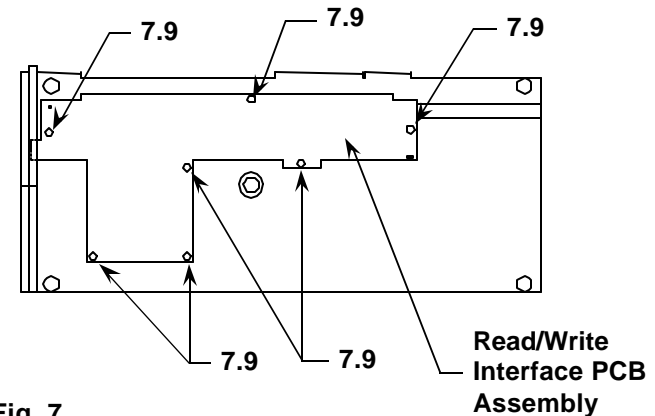


Fig. 7

11. Disconnect all the cables from the connectors on the Read/Write Interface PCB Assembly then remove the Print-Board Sheet (clear plastic Mylar) [8.10] and PCB Assembly from the printer. **IMPORTANT:** Notice the routing of each cable and the orientation of the Printed-Board Sheet prior to disassembly from the Read/Write Interface PCB Assembly.

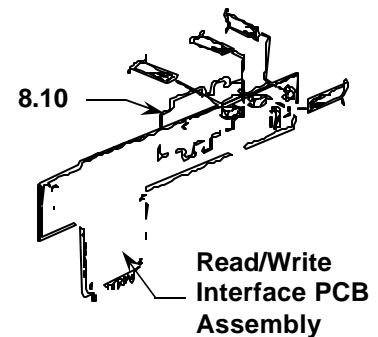
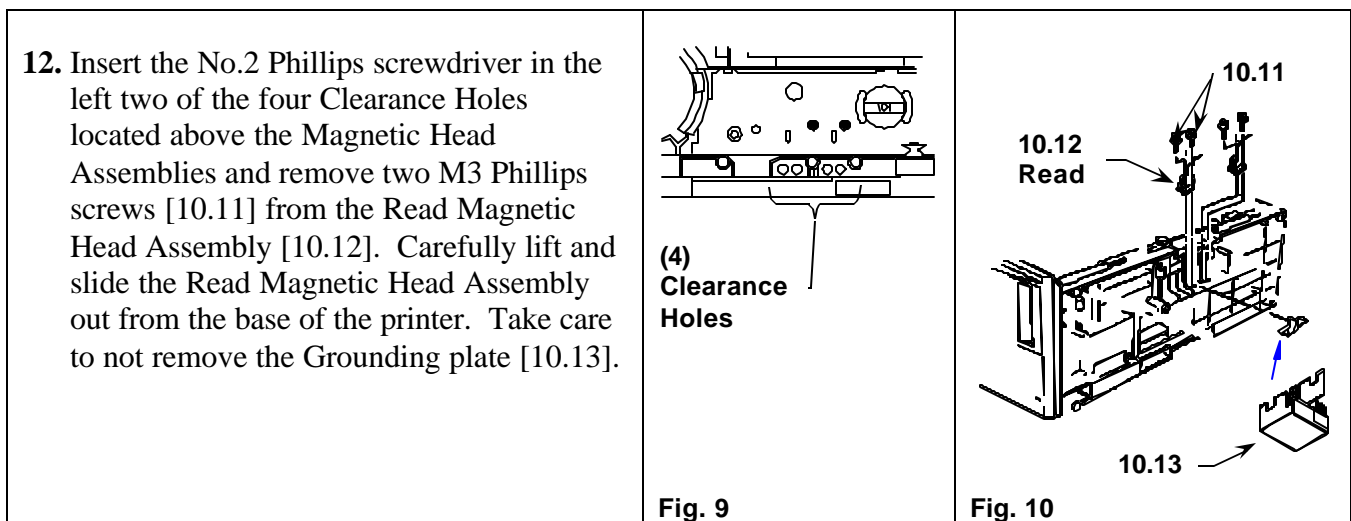
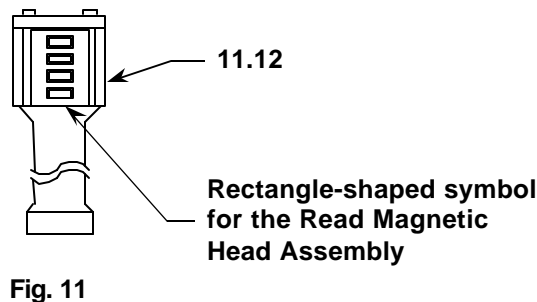


Fig. 8



IMPORTANT: Note the location of the Read Magnetic Head Assembly [11.12] then examine the four rectangle-shaped symbols on the Head Assembly. Match the symbols with the new Read Magnetic Head Assembly prior to installing the new Head.



13. Install the new Read Magnetic Head Assembly. Place the Read Magnetic Head Assembly on the left side of the Magnetic Head Bracket. Secure the Read Head Assembly with the two M3 Phillips screws from step 12. Make sure that the Grounding Plate [10.13] is installed between the Magnetic Head Assemblies.

14. Connect all the connectors to the Read/Write Interface PCB Assembly starting with the white ten-pin flat ribbon cable and ending with the Magnetic Head Assembly Cables. Insert the Print-Board Sheet from step 11 between the Read/Write Interface PCB Assembly and the bottom printer chassis then secure the Read/Write Interface PCB Assembly to the bottom of the printer with the seven M3 Phillips tapping screws from step 10. **IMPORTANT:** Keep the arm of sensor component extended over the Read Magnetic Head Cable prior to securing the PCB Assembly. Failure to do so will result in the printer displaying a Zone B Paper Jam.

15. Assemble the Base Plate to the bottom of the printer chassis with the six M3 Phillips tapping screws and the two M3 Phillips screws from step 9.

16. Rotate the printer until the Service side is facing up then Slide the left end of the new Main PCB Assembly between the Flash Card Shield and the two molded plastic standoffs. Align the connector holes on the new Main PCB Assembly with the four Connector Guide Pins then carefully push in the new PCB Assembly until it is completely seated on both connectors and all of the plastic standoffs.

17. Assemble the BCR Guide to the previous location on the printer with the long M3 Phillips tapping screw from step 8 then assemble all parts previously removed in reverse order.

18. Close the Upper Right Side Cover then close and lock the Lower Right Side Cover.

19. Reconnect all communication and interface cables, plug- in the AC power cord and turn on the power switch.
20. Verify proper functionality by printing a test coupon (*refer to the Operations and/or Maintenance Manuals if you need additional information*).

Installation Verification

1. Power on the printer.
2. Follow Printer verification on the other installations.
3. Do a Magnetic print to verify the Magnetic head installations.

1. Enter into Test mode. <i>See Maintenance Manual on how to access the Test Mode.</i>	Test Print
2. Press the Up or Down arrow button until Magstripe test is displayed. Then press the Enter button.	Magstripe Write
3. Use the UP-Down arrow button to select the path where the printed sample will be pulled from then press the ENTER button.	Stock F
4. The printer will print a blank coupon. But information will be encoded on the magnetic stripe.	
5. Press the Up or Down arrow button until Magstripe Dump test is displayed. Then press the Enter button.	Magstripe Dump
6. Select ASCII printing. Press the Enter button.	Magstripe Dump ASCII
7. Select stock/location where the ASCII data will be printed on using the Up-Down buttons. Then press the Enter button.	Stock F
8. Following the directions. Insert the encoded coupon into the inserter slot.	Insert Coupon For Reading
9. The printer will read the coupon, then print a coupon with the encoded data in ASCII format. Verify the data printed.	