

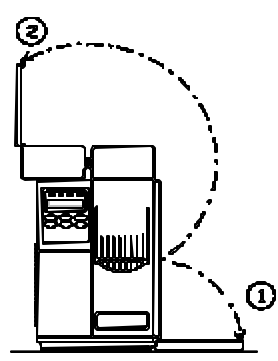
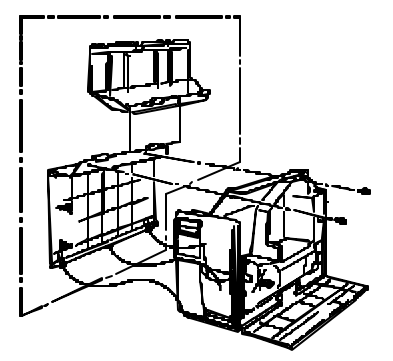
SIGMA DATA 7200 TORQUE LIMITER REPLACEMENT INSTRUCTIONS

Tools Required:

No.2 Phillips screwdriver and a Flat-Head screwdriver
 Wrist strap (or similar device) for ESD grounding

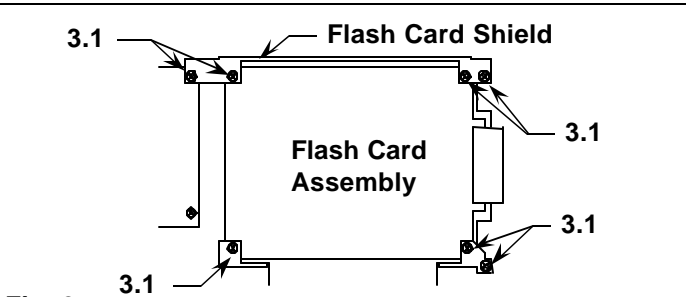
To Prepare the Printer for Maintenance:

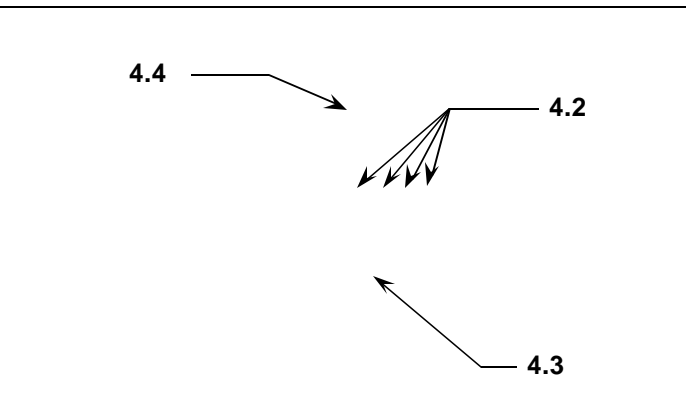
1. Verify that all replacement parts and tools are present.
2. Turn off the power switch, unplug the AC power cord, and disconnect all communication and interface cables.

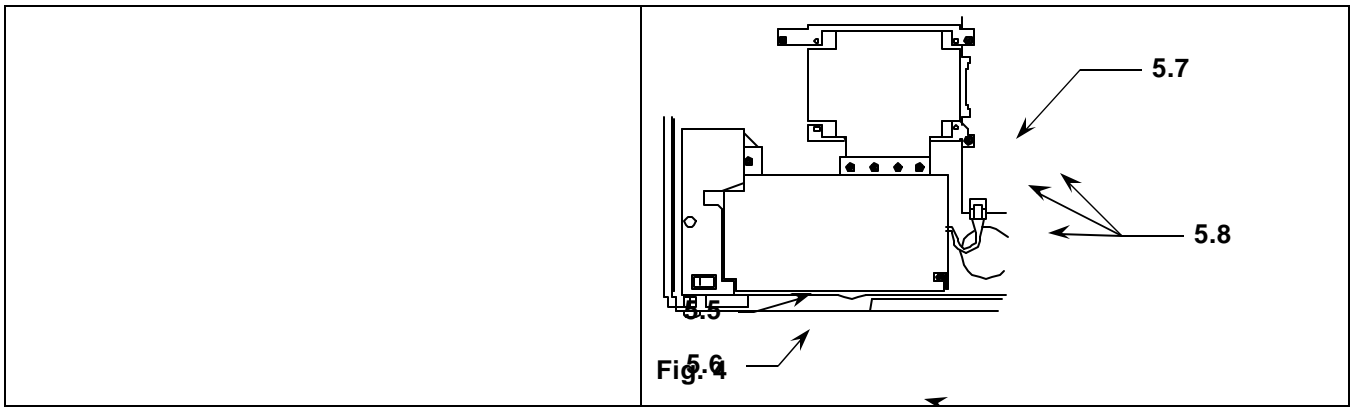
<p>3. (1) Unlock and open the Lower Right Side Cover then (2) open the Upper Right Side Cover completely, until it rest on the Service Cover (Fig.1).</p> <p>4. Remove the Service Cover by removing the two M3 Phillips screws holding the Service Cover to the upper frame of the printer (Fig. 2).</p>	 <p>Fig. 1</p>	 <p>Fig. 2</p>
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To Replace the Torque Limiter:

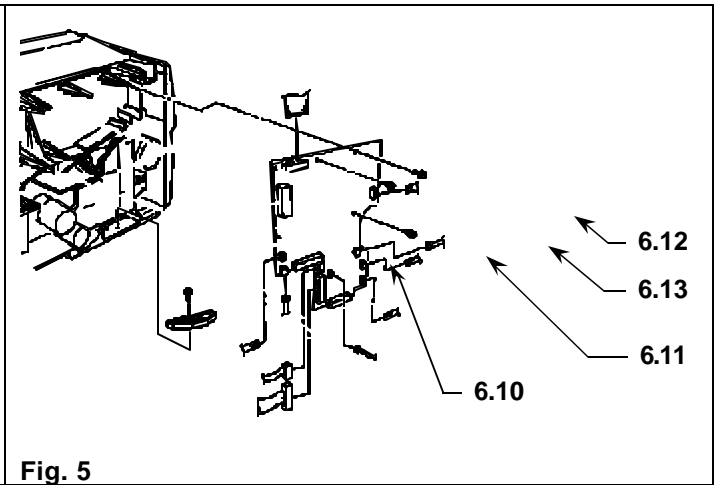
IMPORTANT: Properly ground yourself using an ESD wrist strap (or similar device) to prevent static discharge damage to the electronics.

<p>5. Remove seven M3 Phillips tapping screws [3.1] from the Flash Card Assembly and the Flash Card Shield then remove the Flash Card Assembly from the Main PCB Assembly.</p>	 <p>Fig. 3</p>
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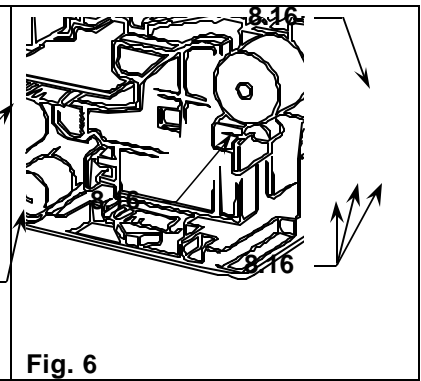
<p>6. Remove four M3 Phillips screws [4.2] from the Power Supply Shield [4.3] then carefully slide out the Flash Card Shield [4.4] from the Power Supply Shield.</p>	
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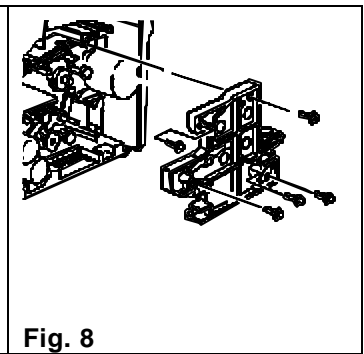
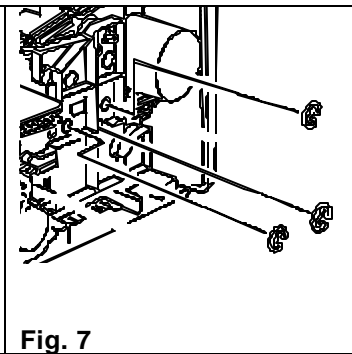
7. Disconnect all connectors from the Main PCB Assembly. Remove the long M3 Phillips tapping screw [5.5] and the BCR Guide [5.6], located below the Main PCB Assembly [5.7] and on the base of the printer chassis. Remove the three remaining M3 Phillips tapping screws [5.8] and the Main PCB Assembly from the printer.



8. Unroute the Print Head Connector Cord [5.9] and unsnap and remove the Cam-Shaft Sensor PCB Assembly [6.10] from the Support Plate [6.11]. On the right side of the Support Plate, lift the Detection-Lever Arm [6.12] and, from the bottom portion, unsnap the Detection-Lever Arm Sensor PCB Assembly [6.13] from the Support Plate. **IMPORTANT:** Note the orientation of the Sensor PCB Assemblies, the routing of the Sensor Cables, and the Print Head Connector Cord prior to the removal of the Sensor PCB Assemblies.



9. Remove two M4 E-Rings [7.14], one M5 E-Ring [7.15]. Remove the five M3 Phillips tapping screws [8.16] from the Support Plate and carefully pull out the Support Plate from the printer. **IMPORTANT:** Note the location and components of each shaft prior to the removal of the Support Plate.



10. Remove the Torque Limiter Shaft Assembly from the backside of the Support Plate. **IMPORTANT:** Note the location of the Torque Limiter Shaft Assembly on the Support Plate prior to the removal.

11. Next remove the Torque Limiter Shaft Bushing [9.17], the M6 Flat Washer [9.18], the first Torque Limiter Gear [9.19] and the Torque Limiter [9.20] from the Torque Limiter Shaft [9.21]. **IMPORTANT:** Notice the orientation of the first Torque Limiter Gear and the Torque Limiter on the Shaft Assembly prior to the removal of each part.

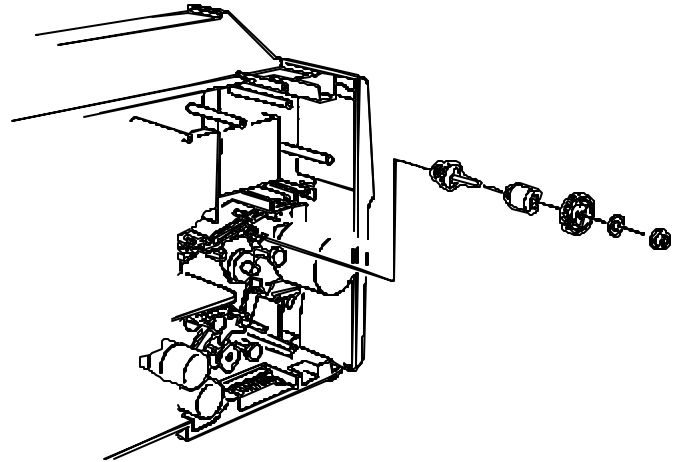
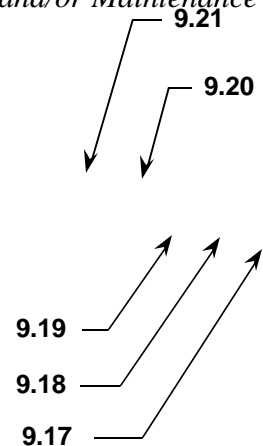


Fig. 9

- 11.** In the following order, slide the new Torque Limiter, the first Torque Limiter Gear, the M6 Flat Washer, and the Torque Limiter Shaft Bushing on the Torque Limiter Shaft. Then install the Torque Limiter Shaft Assembly in its previous position in the printer.
- 12.** Install the Support Plate in its previous location with the five M3 Phillips tapping screws, the two M4 E-Rings, and the M5 E-Ring. Lift the Detection-Lever Arm and snap-in-place the Detection-Lever Arm Sensor PCB Assembly. **IMPORTANT:** Make sure the Detection-Lever Arm moves freely within the Lever Arm Sensor and all of the Gear Shafts are positioned correctly on the Support Plate prior to securing the Plate with screws and E-Rings.
- 13.** Snap-in-place the Cam-Shaft Sensor PCB Assembly on the Support Plate. Then reroute the Cam-Shaft Sensor PCB Assembly Cable and the Print Head Connector Cable in their previous position.
- 14.** Assemble all parts previously removed in reverse order.
- 15.** Close the Upper Right Side Cover, then close and lock the Lower Right Side Cover.
- 16.** Reconnect all communication and interface cables, plug-in the AC power cord and turn on the power switch.
- 17.** Verify proper functionality by printing a test coupon (*refer to the Operations and/or Maintenance Manuals if you need additional information*).



Torque Limiter Shaft Assembly