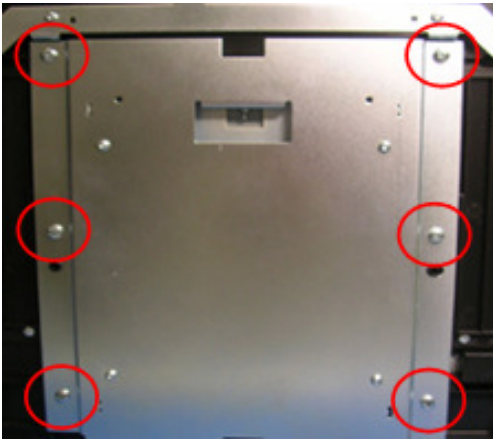# Codonics Virtua SATA Power Cable Upgrade

Overview

This document explains how to upgrade the SATA Power Connector Cable on Codonics® Virtua® Medical Disc Publisher, 83-series Virtua Recorders.

Remove Drive Bay

1. Stand the Recorder up on the back of the chassis.

2. To remove the drive bay, use a #2 Phillips screwdriver and remove the 6 screws holding the drive bay in place.

3. Set the screws aside for reassembly. Slightly lift and pull the drive bay out.

Disconnect SATA Power Cable and Ferrites

1. Disconnect the SATA power from the power supply.

2. Disconnect the SATA Power and SATA Data cables from the CD/DVD drives.

3. Remove the ferrites from the SATA power cables.

   NOTE: The SATA power cable is the cable with yellow, red, and black individual wires. The SATA data cables are single flat cables, typically red in color.

Inspect old cable and optical drive connector

Carefully examine the connectors on the old cable assembly as well as the optical drive connector for signs of corrosion. If there are signs of corrosion on either part, the optical drives must also be replaced.
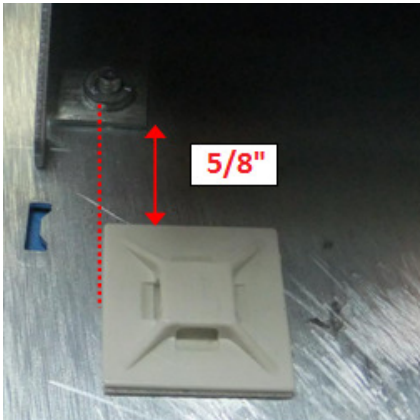
Install new cable

1. Using the two ferrites that were removed from the old SATA power cable, install on each of the two SATA power leads as shown below.
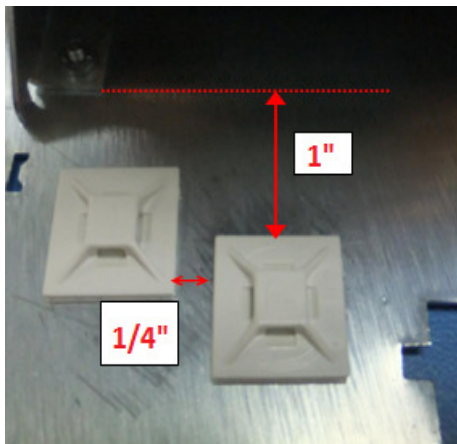

2. Clean the area on the base of the drive bay assembly that the cable tie mounts will be applied to with 99% alcohol as indicated in the image below.
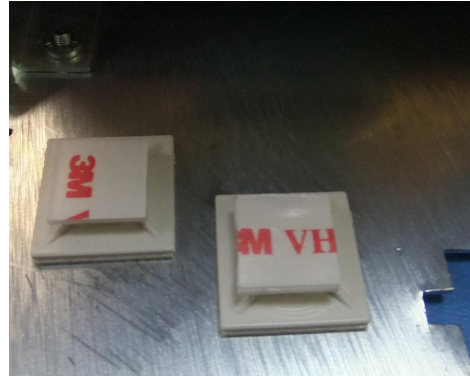

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3. Place a cable tie mount on the drive bay. The left edge of the cable tie mount should be aligned with the center of the bracket fastener and 5/8 of an inch below as shown in the following image.

4. Install a second cable tie mount to the right of the cable tie mount from the previous step. It should be located one inch below the bracket, which is approximately even with the middle of the cable tie mount installed in the previous step as shown in the image below.

5. Place a piece of double-sided adhesive VHB tape on top of cable tie mounts as shown.
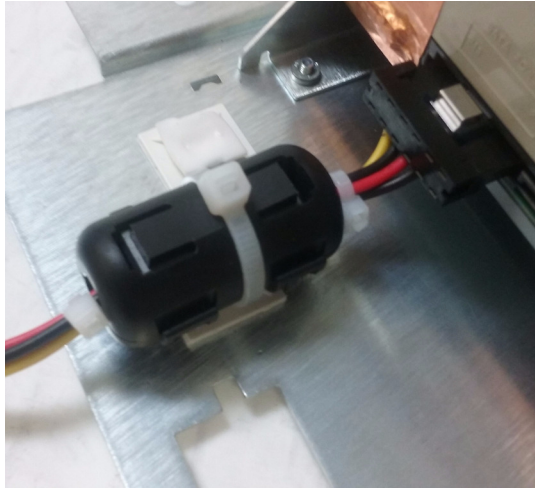

6. Gently bend wires on one of the SATA power cable connectors 90 degrees as shown below. Remove the backing from the VHB tape on the right side cable tie mount to expose the adhesive surface. Plug the SATA power cable to the bottom power connector of the CD/DVD drive. Make sure the connector is fully seated and the lock is latched. Gently tug on the cable housing to make sure it is latched.
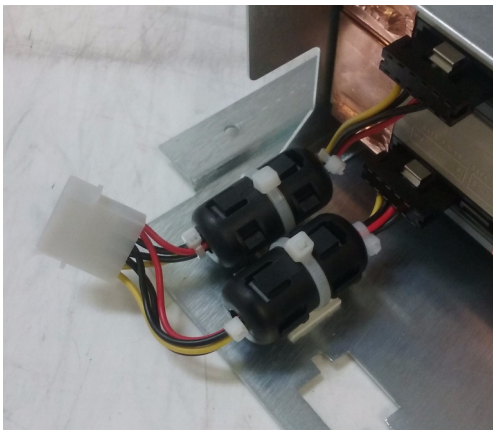

7. Seat the ferrite on the exposed adhesive on top of the cable mount.

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8. Install a large cable tie around the ferrite and through the cable tie mount. Make sure the cable tie head is on top as shown. Install small cable ties approximately 1/8 inch from each end of the ferrite. Tighten and trim loose ends as shown below.

9. Install a large cable tie through the left side cable tie mount. Plug the remaining SATA power cable into the top power connector of the CD/DVD drive. Ensure the connector is fully seated and the lock is latched. Gently tug on the cable housing to make sure it is latched.

10. Remove the backing from the VHB tape on the left side cable mount and position the second ferrite on it.

11. Fasten the large cable tie around the ferrite and through the cable tie mount. Make sure the cable tie head is on top as shown. Install small cable ties approximately 1/8 inch from each end of the ferrite. Tighten and trim loose end.
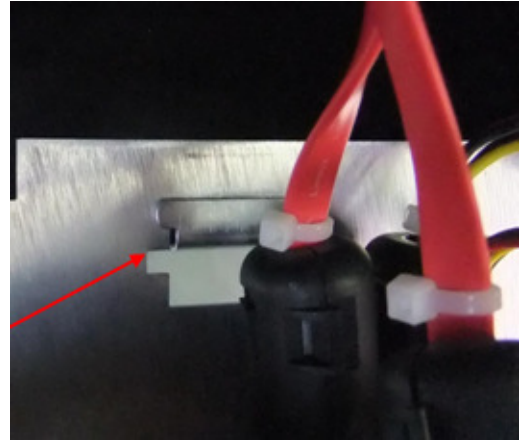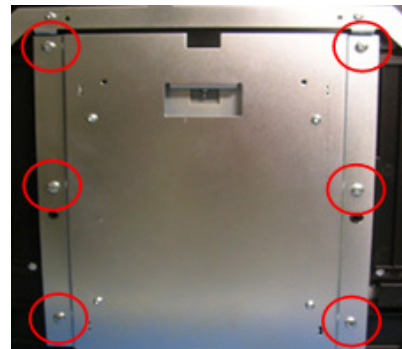

Install Drive Bay Assembly

1. Place the CD/DVD Drive assembly next to the Recorder. Plug one of the SATA data cable into the bottom SATA connector of the CD/DVD drive. Make sure the cable to the right (SATA 1) is connected to the bottom drive. Make sure the connector is fully seated and the lock is latched. Gently tug on the cable housing to make sure it is latched.
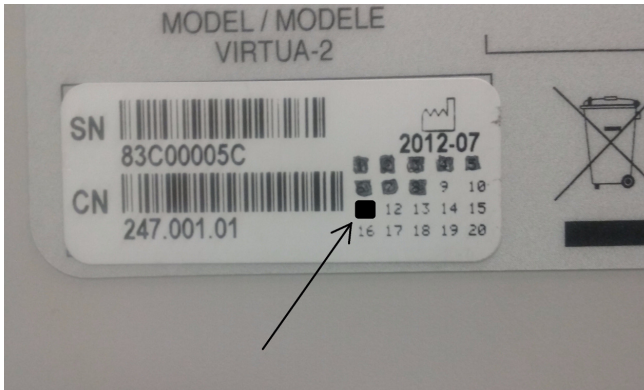

2. Latch the Drive Assembly onto the Recorder Chassis tab as shown.

3. Lift the CD/DVD drive assembly and install using the six screws set aside from the drive bay removal process at the beginning of this document.

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4. Once the repair is complete, use a felt tip marker to color in the number "11" on the label on the back of the recorder as shown below. This mark shows that the upgrade described in this document has been successfully completed.

Technical Support

If problems occur that are not covered by this Technical Brief, contact Codonics Technical Support between the hours of 8:30AM and 5:30PM EST (weekends and U.S. holidays excluded).

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Email: support@codonics.com
Website: www.codonics.com

Get it all with just one call
800.444.1198

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