
XL-SATA

SATA Drive Interface

for 722 and 744T Recorders

The XL-SATA Drive Interface allows the connection of most 2.5-inch SATA (Serial ATA) hard drives to 722 and 744T models originally equipped with PATA (Parallel ATA) or IDE internal hard drives.

722s with serial numbers above 471309092000 and 744Ts with serial numbers above 461509071000 are already equipped with 2.5-inch, 5400 RPM SATA hard drives. No additional interfaces are required.

XL-SATA Packing List

- 1) **XL-SATA Drive Interface**
- 1) **Printed User Guide and Installation Instructions**
- 2) **Pink Protective Foam Rings**
- 2) **3 x .5 mm Nylon Phillips Head Screws**
- 5) **4-40 x 1.75" Black Oxide Phillips Head Screws**

Equipment Not Included Required for Installation

- 1) **#1 Phillips Head Screwdriver**
- 1) **2.5" SATA Drive**

Sound Devices recommends 5400 RPM hard drives or high quality solid state drives when choosing a drive replacement. When choosing a substitute hard drive, note that higher RPM hard drives draw more current, reducing battery run time. Higher speed drives may be used with the 7-Series Recorders, however they will not significantly improve performance. They will slightly increase transfer throughput with the penalty of increased current draw and reduced battery run time. The 7-Series can address drives with capacities up to 2 TB.

Replacing the Internal Hard Drive

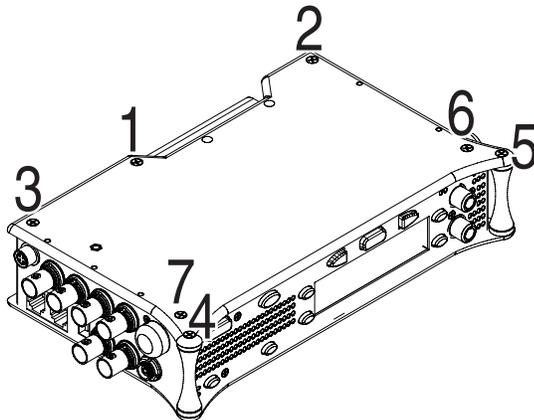
The internal hard drive is not intended to be a swappable, deliverable medium. Its multi-pin connector is not rated for repeated insertion and removal cycles and may be prone to breakage with repeated cycling.

The hard drive is mounted to the bottom-side of the recorder's chassis and is screwdriver accessible. The drive is "suspended" in the unit with a shock absorbing material and is attached to the main circuit board via a "flex board". Since the unit's high-density circuitry and tight construction require specific electronics knowledge, Sound Devices strongly recommends drive replacement be performed by a qualified technician using proper ESD precautions. Drive replacement done by a qualified technician has no warranty implications.

Installing the XL-SATA

1. Place recorder upside down on a steady flat, non slip surface.
2. With a #1 Phillips head screwdriver remove the screws in the following order. The five long black oxide screws will no longer be needed. The two smaller screws (#4 and 5) will be needed for reassembly.

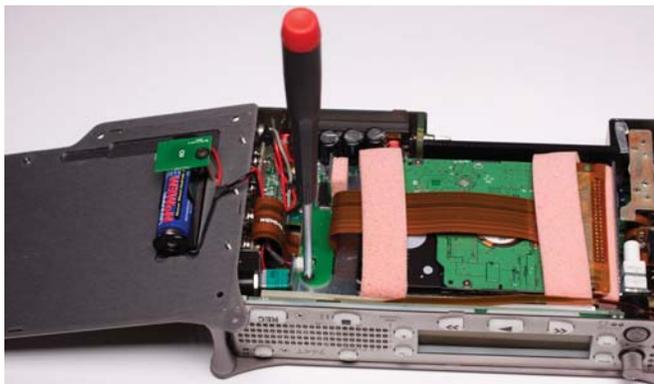
Attention: Remove screws in this order to avoid stripping.



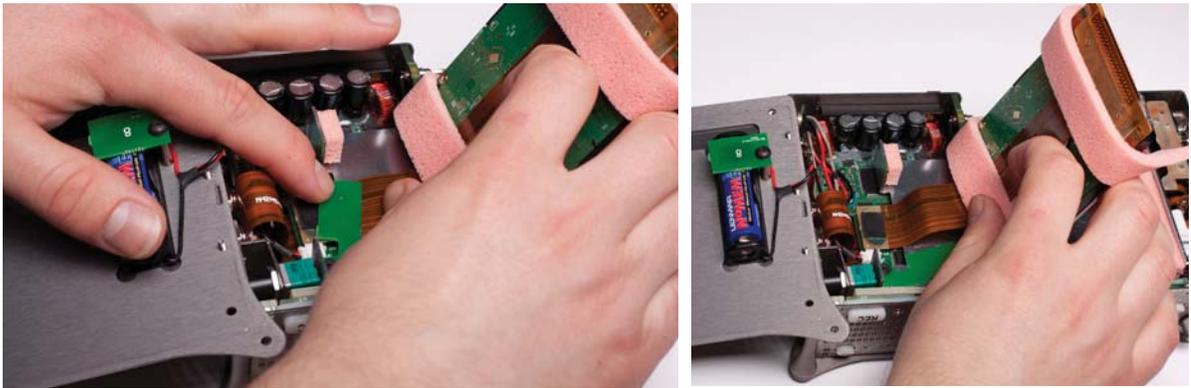
3. Gently remove the bottom panel. As you remove the bottom panel be careful of the internal AA battery wires as they will remain connected to the internal circuitry and the bottom panel.



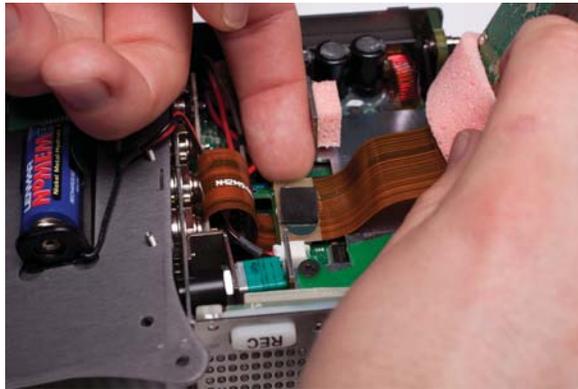
4. Loosen the screw of the small green circuit board holding down the hard drive ribbon cable.



5. Swing the small green circuit board over while pressing down on the ribbon cable to avoid snagging.



6. Carefully disconnect the ribbon head mating connector from the circuit board.



7. Remove the old hard drive and attached ribbon cable from the recorder.

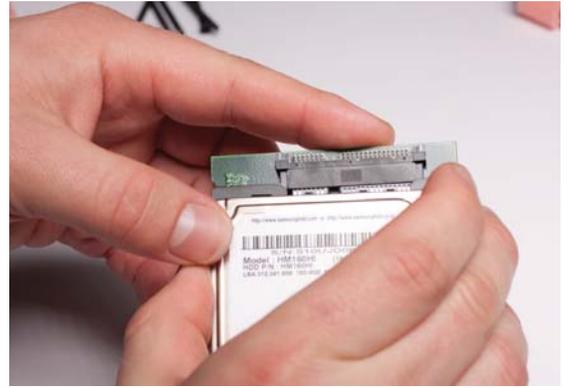


8. Place the old hard drive assembly, and the five 4-40 x 1.75" Black Oxide Phillips head screws off to the side as these are no longer needed. **DO NOT DISCARD THE TWO SMALL BLACK OXIDE PHILLIPS HEAD SCREWS.**
9. Remove the XL-SATA Drive Interface from its packaging.

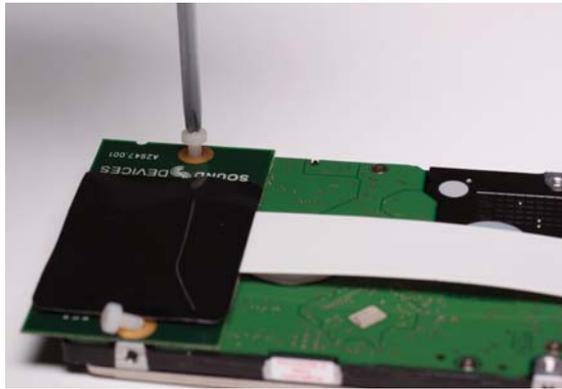


XL-SATA User Guide and Installation Instructions

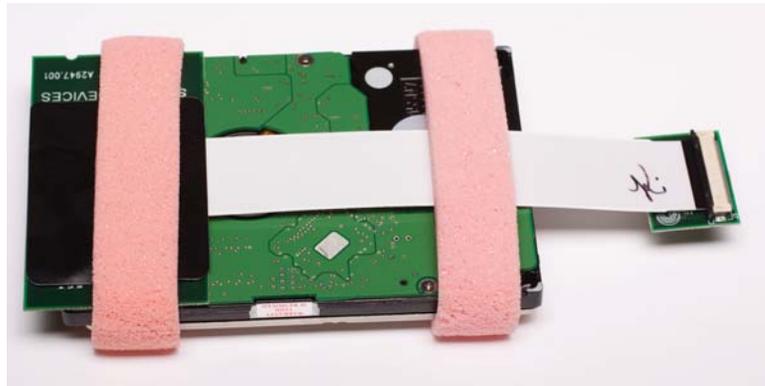
10. Connect the new SATA hard drive (not included) to the XL-SATA ribbon cable.



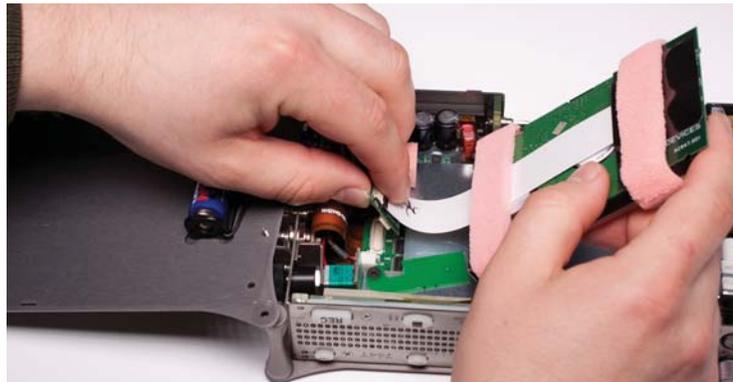
11. With the ribbon face up, attach the two new small nylon screws (included) using a #1 Phillips head screwdriver.



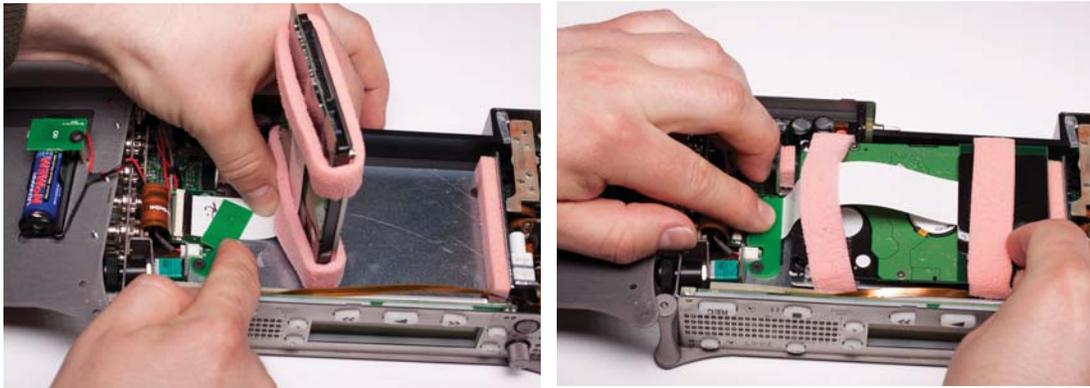
12. Slide the two new pink protective foam rings (included) over the new hard drive assembly to cover the mounting screw areas.



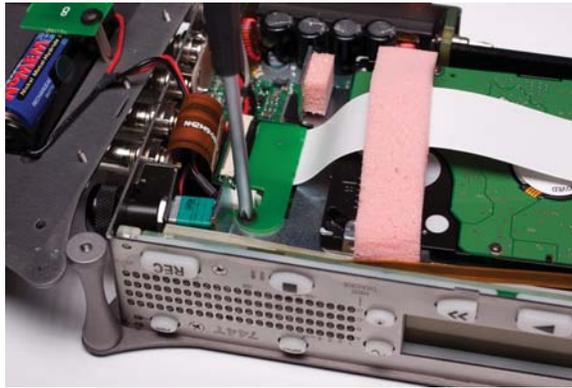
13. Connect the XL-SATA ribbon header mating connector to the 7-Series circuit board connector.



14. While holding down the ribbon cable, slide the small green circuit board piece over the ribbon header mating connector.



15. Using a #1 Phillips head screwdriver tighten the green circuit board piece securing the ribbon mating connector to the circuit board.

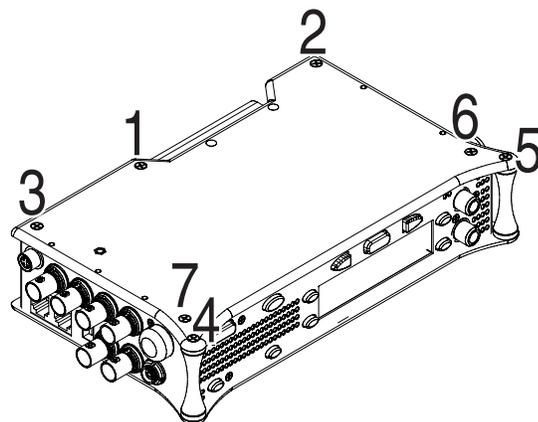


16. Gently return the bottom panel to the all around panel.
17. Make sure all the tabs on the all around panel fit correctly in the bottom panel grooves.



18. Attach the bottom panel using a #1 Phillips head screwdriver, the original two small Black Oxide screws (#4 and 5), and the five new Black Oxide screws (included). Install screws in the order defined in the illustration below. This may require holding the bottom panel down firmly to the all around panel making sure that the tabs fit correctly.

Attention: Install screws in this order to avoid stripping.



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