

TIVO UPGRADE INSTRUCTIONS

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Instructions for add drive upgrade for Sony SVR-3000

A FEW WORDS OF CAUTION:

First and foremost, please be aware that upgrading a TiVo presents a few physical hazards. As with most consumer electronics devices, components in the TiVo may still carry a lethal charge, even after disconnecting the power cord. Be aware of this while working inside your TiVo. Allow sufficient time for discharging of components and avoid contact as much as possible with potential hazards. While we have done everything we can to provide accurate, easy-to-follow instructions, we cannot be responsible for any damage done to your TiVo or to yourself as a result of your upgrade. By opening your TiVo, you agree that neither Adberg Consulting LLC nor any of its members or affiliates is responsible in any way for any harm done. Please be VERY careful when upgrading. NEVER open the TiVo while the unit is plugged in and NEVER operate the TiVo if the lid is not securely fastened.

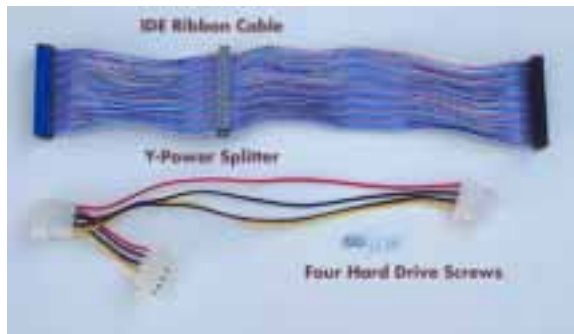
Please Note: Opening the TiVo *voids the warranty*.

THIS KIT INCLUDES:

- 1 Hard drive IDE cable
- 1 Hard drive power cable
- 1 Set of 4 hard drive screws

- 1 Upgrade hard drive

- 1 Set of upgrade instructions



1. OPENING THE TIVO

Unplug the power cord from your electrical outlet and wait five minutes for the TiVo to discharge. Do not plug the TiVo back in until you are completely finished. Be very careful of static electricity, which can destroy your TiVo's internal parts. You should not perform this upgrade on carpet.

Using a Phillips-head screwdriver, unscrew the two screws on the back of your TiVo. The two screws are surrounded by silver from the top of the TiVo's lid.



Next, remove the four, large-head screws, two on each side of the unit.

Once the six screws are removed, remove the lid. The cover should slide back and then up. Remove the cover from the TiVo, and set it in front of the TiVo unit, top up. You will use this as a platform for the drive bay.

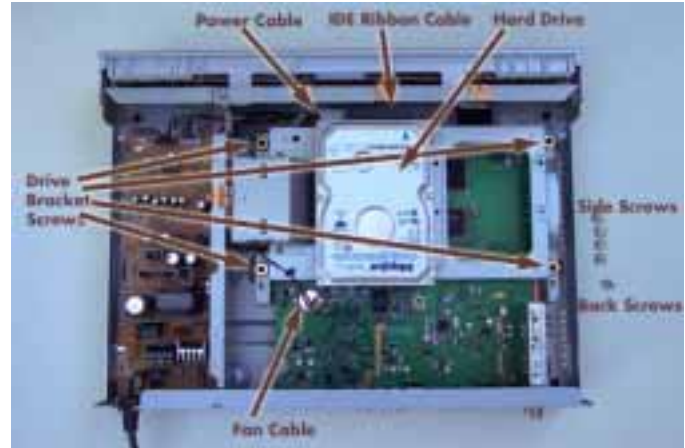
2. DISCONNECTING THE DRIVE BAY

With the cover off and looking underneath the front lip of the TiVo, you will be able to see (1) one hard drive, (2) an IDE ribbon cable that runs from the greenish motherboard underneath the drive to the hard drive, (3) a multi-colored (red, black, yellow) power cable that runs from the power supply to the hard drive, and (4) a fan cable that runs from the hard drive bay to the motherboard.

Gently remove the fan cable from the motherboard. Pull straight up and out. Using your second and middle fingers, reach down in between the front of the hard drive and the front of the TiVo to remove the power cable from the hard drive.

Using your screwdriver, unscrew and remove the four drive bracket screws securing the drive bay to the TiVo chassis. Set these black screws aside and do not confuse these screws with the other screws you have removed from your TiVo.

Once the screws are removed, you will be able to lift the drive bay up and out of the TiVo. Lift the drive bracket up and then flip it so that it is perpendicular to the TiVo. (If you are facing the TiVo, you will tilt the drive bracket so that the two drive labels are facing you.) With one hand holding the bracket, use your other hand to remove the IDE cable connecting the hard drive to the TiVo.

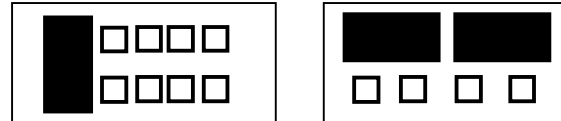


3. CHECKING THE JUMPERS

Pick up the hard drive bay and look at the hard drive with the label facing up. Your TiVo's factory hard drive has a small plastic "jumper" that is located between the IDE cable and the power cable connectors. In a Maxtor hard drive, the jumper should be moved to the furthest left-hand position. Gently remove the jumper with the end of a paper clip or your fingernail and move it to the proper position. NOTE: the jumper must be vertical and must be carefully inserted so that the left-most pins fit inside the plastic jumper.



Now, look at the back of the drive that you received in your kit (with the label facing up). If the drive in your kit is a Samsung drive, you should see two jumpers that are horizontal. If the drive in your kit is a Maxtor drive, you should see either one horizontal jumper or two horizontal jumpers (either is fine). If you see jumpers in any configuration other than the ones described above, please email us.



4. MOVING THE EXISTING DRIVE AND CONNECTING THE NEW HARD DRIVE TO THE DRIVE BAY

After you have moved the jumper to the proper setting, place the hard drive bay upside-down on the TiVo lid, with the drive label down and the drive connectors facing the front of the TiVo.

With the hard drive bay upside down on the TiVo lid, use your screwdriver and remove the four screws connecting the hard drive to the hard drive bay. Set these four screws aside, and do not confuse the drive screws with the other screws that you removed. These screws are silver and are the shortest screws that you will remove.

Slide the hard drive that you just unscrewed to the end of the hard drive bay, being sure that four screwholes in the drive are aligned with the four previously unused holes in the drive bay. Reconnect the hard drive to the drive bay using the four screws that you just removed. We have found that the easiest way to attach the drive to the bracket is to turn the bracket upside down. Using one hand, hold the drive against the bottom of the bracket and look through the holes in the drive bay to align the screw holes. Using your hands, screw the screws into each of the four holes. Tighten them with the screwdriver.

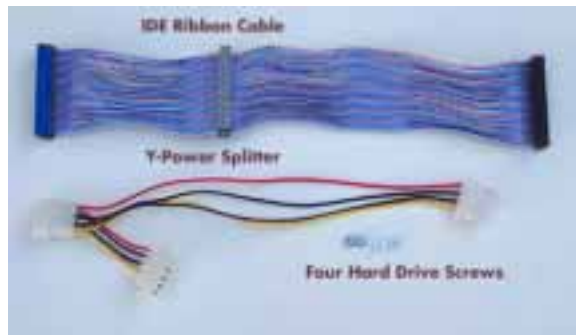
Align your new hard drive on the drive bay, next to the existing hard drive (the new drive sits between the existing drive and the fan, where the existing hard drive *was* located). Using your hands, screw the screws into each of the four holes. Use a Phillips-head screwdriver to tighten the screws. You should now have two drives connected to the drive bay.



5. REPLACING THE POWER CABLE AND IDE CABLE

Your upgrade kit contains two cables. The first is a multi-color (black, red, yellow) power splitter cable. The second is a hard drive IDE cable. The hard drives and hard drive bay should still be outside of the TiVo. First, install the IDE cable into the two drives. The gray connector connects to the drive you received in your upgrade kit (the drive closer to the fan). The black connector connects to the TiVo's original drive. Note the grooves on one edge of each connector—these must align with the notch in the drive connector.

Take the red/yellow/black power splitter cable included with your upgrade kit and connect the short end to the drive closer to the fan cable. (The small end of the power cable connects to the drive that you received in your drive kit.) Now, connect the long end of the power splitter cable to the other drive. (The long end of the power cable connects to your TiVo's original/factory drive.)



6. RE-ATTACHING THE DRIVE BAY

The TiVo drive bracket should still be sitting on top of the TiVo lid. The IDE and power cables should be connected. Now, slide the bracket to the edge of the TiVo lid and insert the blue end of the IDE cable into the TiVo motherboard. Be careful to insert the cable properly. There is a groove in the blue connector that must align with the notch in the motherboard connector.

Now, attach the (red/yellow/black) drive power connector from the TiVo into the power connector coming out of the drives.



Once the cables are connected, carefully flip the drive bracket over and install it into the TiVo. The drive bracket will move fairly freely inside the TiVo, and you will have to be careful to align the four holes in the TiVo with the four holes on the drive bracket. Be sure that the IDE and power cables are in front of the two drives. They should NOT be under the drives as you turn the bracket over.

Once the four holes are aligned and the drive bracket is installed, again be sure that the IDE and power cables are tucked under the front lip of the TiVo. It is critical that all of these cables are tucked underneath the gold AND silver tabs on the lip of the TiVo. The silver tabs are circled in the picture.



Screw the four black screws back into the holes on the drive bay.

Insert the fan cable back into the motherboard. (This is easy to forget, which is why it is in bold!)

7. RE-ATTACHING THE TIVO LID

Place the TiVo lid back over the TiVo. Align the clips on each side of the lid so that they clip down on the sides of your TiVo. Slide the lid toward you while simultaneously pushing down on the top of the lid.

Once the lid is in place, reattach the six screws to secure the lid to the TiVo.



We thank you very much for your purchase and hope that you enjoy your newly-enhanced TiVo. Please [email us](#) with any comments, suggestions or complaints. If you found the upgrade easy to install (or even if you found it more difficult than you expected), we'd love to know. If you found our service to be excellent (or awful), we want to know that too. We're always looking to improve our products and services...the more we hear from you, the better. Thanks very much!