

## DVRupgrade Capacity upgrade and CacheCard Series1 DirecTV TiVo Installation Instructions

Single Drive Replacement Kit  
Sony SAT-T60, Philips DSR6000, Hughes GXCEBOT

*Note: Please read all instructions first! Do not place your unit or its components on a carpeted floor while open. The internals of your unit contain sensitive electronic components that can be damaged by static electricity. Under no circumstances should you touch any component of the unit's power supply, even if the unit is unplugged; it has the potential to shock you.*

*The drives included with your kit are pre-configured and jumpers are already set appropriately. DO NOT CHANGE JUMPER SETTINGS ON ANY DRIVE WE SUPPLY WITHOUT CONTACTING DVRupgrade FIRST!*



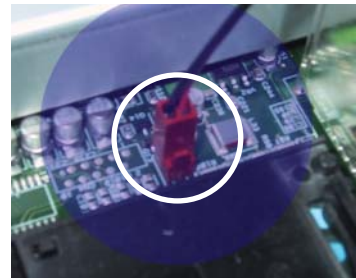
**Step 2** Remove the two screws securing the left side of the drive mounting bracket; it is ok to leave the brass bushings in place, but if they come out with the screws, just put them aside for safe-keeping.

**Step 3** Your unit may contain a screw near the power connector on the right of the drive mounting bracket; carefully remove it with the Torx driver. **Do not touch the power supply!** You may want to clip the white, plastic



cable-tie holding the power connector in place; this will allow you to use your fingers to secure the screw as you remove it.

**Step 4** Unplug the fan's power connector from the system board.



**Step 5** Gently lift the disk drive tray from the outside edge, as shown. As the tray lifts, pull slightly to the left and gently wiggle it until it slides free of the bracket on the right side of the chassis; do not yank the drive tray or drop the inside edge onto the system board.



**Step 6** As you lift the drive tray from the unit, note that the drive and power cables are still connected. Carefully remove these and set the entire assembly, drive-down, upon a table-top.

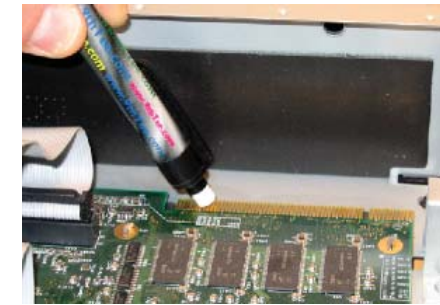
**Step 7** If you have a single drive unit, remove it from the tray and store in a safe place as a 'backup.' If you have a dual drive unit, remove both drives and put them away for safe-keeping.

**Step 8** Attach the drive of your replacement drive kit to the drive tray as shown. We highly recommend positioning the drive as illustrated so you have plenty of room for the cables and components inside the unit.



### CacheCard Installation

**Step 9** Note the gold connector towards the front edge of your DirecTiVo system board. This is where you will install your CacheCard. We recommend you clean the edge connector with alcohol and a swab, and/or use a pencil eraser as depicted below.



**Step 10** You may find it easier to install the card by first removing the rubber foot just beneath the same corner of your DirecTiVo. The rubber foot can be replaced after the card is installed. Use a small chisel-tipped screwdriver to gently pry the plastic pin from the center of the rubber foot.



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**Step 11** Align the card as pictured below. It is easier to install the card by angling the edge connector before pressing it onto the TiVo system board. In many cases, it will be a snug fit - be patient and careful to only apply pressure to the base of the board. The board is quite resilient, however it is best to not bend it. If necessary, employ someone with small hands to aid in this part of the installation.



**Step 12** Good job. Now you may connect the new IDE cable (note blue connector on system board) and Ethernet patch cable as shown.



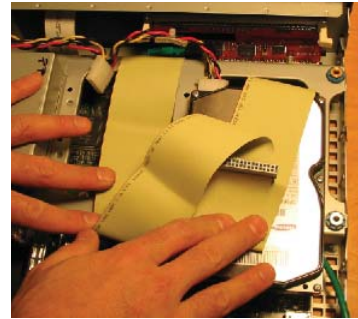
**Step 13** Carefully run the patch cable through the interior of the unit; ensure there is no pressure on it that might unseat the CacheCard (we recommend a hot glue gun for securing the CacheCard to the system board, it can still be easily removed but will remain secure). See the photo below for the best way to run the cable to the exterior of the unit.



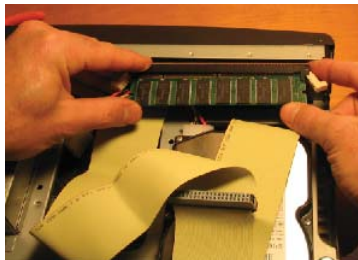
**Step 14** Now retrieve your drive tray and install as shown. There is very little clearance between the IDE cable and the RJ45 connector on the CacheCard, be certain to ensure the card is not unseated during the process.



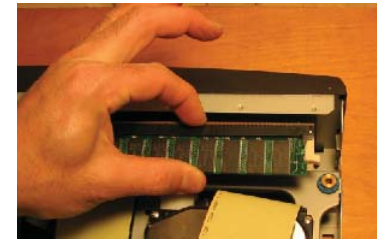
**Step 15** Connect the disk drive power and IDE connectors. If necessary, use the included connector as an extension to the existing connector - do not attempt to remove the existing power connector from the power supply. Reconnect fan power supply (see Step 4 for photo).



**Step 16** Install memory by opening clips on CacheCard and pressing chip in with some force. Try not to bend the CacheCard - you will need to brace it with your fingers from behind and press with your thumbs.



Ensure memory is firmly seated by also pressing down on its center and securing it in the CacheCard memory slot.



**Step 17** Photo of completed hardware installation is shown below. Visually inspect your installation and review instructions to ensure no steps were skipped and that all connections are secure.



**Final Steps** When you power on your unit, you should complete your guided setup from the beginning. If you plan on using your network connection for phone calls, you can use the 'options' to change your dialing prefix is set for “,#401” You can choose any area code during setup, as the dialing prefix will take precedence.

Your DVRupgrade CacheCard replacement drive kit is configured, by default, to obtain its IP address from a DHCP server. To determine the actual IP address of your unit, you can use the tutorial linked in the support area of our web site, or use a utility such as AngryIP Scanner.

Once you've determined your IP address, you can browse the TiVoWeb by entering your IP address in any browser window, use telnet / ftp to your unit for additional capabilities, or use DVRchive client tools if you've received a kit with that capability.

Congratulations, you are done! If you have any questions or problems with your installation, please contact us using the form on our website. Additional resources are available at <http://www.dvrupgrade.com/support/> and these instructions are also available online at [http://www.dvrupgrade.com/install\\_instructions.cfm](http://www.dvrupgrade.com/install_instructions.cfm).

Thanks again for purchasing your upgrade kit from DVRupgrade, the home of the original TiVo Upgrade!