



Hard Disk Drive Upgrade Kit

Catalog Number 6189V-25HDDKIT

For	Page
Important User Information	2
Safety Precautions	3
Parts List	4
Required Tools	4
Replace the Hard Disk Drive	4
Back Up the Hard Disk Drive	4
Remove the Hard Disk Drive	5
Install the New Hard Disk Drive	8
Install New Operating System and Restore Data	9
Additional Resources	10

About This Publication

This document shows how to replace the hard disk drive (HDD) in the 12 in., 15 in., and 17 in. models of the 6181P VersaView Integrated Display Computers.

HDD Upgrade Kit	Computer Compatibility	Series	Revision
6189V-25HDDKIT	6181P-12XXXX	A	All
	6181P-12XXXX	B	All
	6181P-12XXXX	C	A
	6181P-15XXXX	A	All
	6181P-15XXXX	B	All
	6181P-15XXXX	C	A
	6181P-17XXXX	A	All
	6181P-17XXXX	B	All
	6181P-17XXXX	C	A

Important User Information

Solid state equipment has operational characteristics differing from those of electromechanical equipment. Safety Guidelines for the Application, Installation and Maintenance of Solid State Controls (Publication SGI-1.1 available from your local Rockwell Automation sales office or online at <http://www.literature.rockwellautomation.com>) describes some important differences between solid state equipment and hard-wired electromechanical devices. Because of this difference, and also because of the wide variety of uses for solid state equipment, all persons responsible for applying this equipment must satisfy themselves that each intended application of this equipment is acceptable.





In no event will Rockwell Automation, Inc. be responsible or liable for indirect or consequential damages resulting from the use or application of this equipment.

The examples and diagrams in this manual are included solely for illustrative purposes. Because of the many variables and requirements associated with any particular installation, Rockwell Automation, Inc. cannot assume responsibility or liability for actual use based on the examples and diagrams.

No patent liability is assumed by Rockwell Automation, Inc. with respect to use of information, circuits, equipment, or software described in this manual.

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Throughout this manual, when necessary, we use notes to make you aware of safety considerations.

<p>WARNING</p> 	<p>Identifies information about practices or circumstances that can cause an explosion in a hazardous environment, which may lead to personal injury or death, property damage, or economic loss.</p>
<p>IMPORTANT</p>	<p>Identifies information that is critical for successful application and understanding of the product.</p>
<p>ATTENTION</p> 	<p>Identifies information about practices or circumstances that can lead to personal injury or death, property damage, or economic loss. Attentions help you to identify a hazard, avoid a hazard, and recognize the consequences.</p>
<p>SHOCK HAZARD</p> 	<p>Labels may be located on or inside the equipment, for example, a drive or motor, to alert people that dangerous voltage may be present.</p>
<p>BURN HAZARD</p> 	<p>Labels may be located on or inside the equipment, for example, a drive or motor, to alert people that surfaces may be dangerous temperatures.</p>

Safety Precautions

Observe the following precautions when working with the computer's hard disk drive.

- Do not touch internal components unnecessarily.
- Always handle the drive by its metal frame.
- Store the drive in an anti-static bag when it is not installed.
- Never disconnect or install a drive with the power turned on.

SHOCK HAZARD

Failure to follow proper safety procedures could result in severe electrical shock or damage to the computers.

ATTENTION

Disconnect all power from the computer before removing and installing components. Failure to disconnect power could result in severe electrical shock or damage to the computer.

ATTENTION

Electrostatic discharge (ESD) can damage the computer and components. Make sure you work in a static-safe environment and wear a grounding strap whenever handling circuit boards, memory, or other internal components.

ATTENTION

Mechanical shock can damage hard disk drives (HDD). Do not drop or bump the drive. Do not push on top cover of HDD. Do not touch printed circuit board without ESD protection. See HDD label for additional care and handling instructions.

Parts List

The hard disk drive upgrade kit consists of these items.

- Hard disk drive (HDD)
- Connector-stabilization plate preassembled with dielectric film and industrial doublestick tape
- L-shaped shock-stabilization shim
- Four flat-head M3 screws with thread lock
- Four pan-head M3 screws with lock washers
- Upgrade identification label

Required Tools

Use a Phillips #2 screwdriver for installation.

TIP

For easiest installation, use a screwdriver with magnetic tip.

Replace the Hard Disk Drive

This section shows how to replace the existing hard disk drive (HDD) in the computer. It contains procedures to:

- back up HDD data.
- remove the HDD.
- install the HDD.
- install new operating system (OS) and restore backup data.

Back Up the Hard Disk Drive

Because you will replace the hard disk drive (HDD), you will need to install the operating system (OS) on your new drive. For a default OS installation, use the rebuild CD that shipped with your VersaView computer. This will not include programs and data that have been added to the system.

IMPORTANT

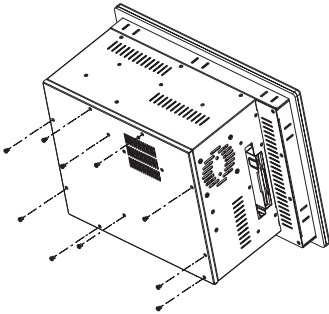
Program data must be backed up independently before you remove the old HDD. After installing the new HDD and OS, restore your backup data and reinstall any application programs you previously had on the old HDD.

Remove the Hard Disk Drive

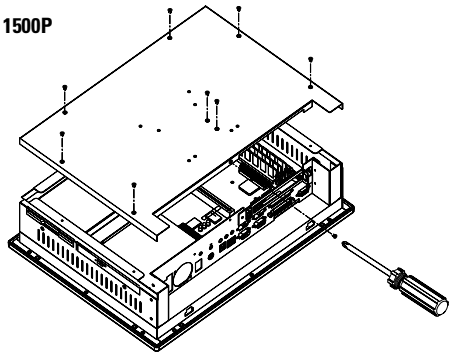
Follow these steps to remove the hard disk drive (HDD).

1. Disconnect power from the computer.
2. Remove the screws securing the back cover.

1200P



1500P



IMPORTANT

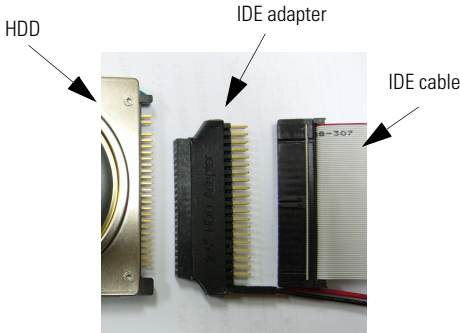
Note the location and orientation of all cables before you remove the existing hard drive and cabling, so that you can reattach them correctly.

3. Remove the four screws that fasten the HDD assembly to the chassis.
4. Lift the HDD assembly out of the chassis.
5. Open the HDD brackets.

TIP

HDD brackets will vary in shape depending on the computer model, series, and revision.

6. Disconnect the IDE adapter/cable (40...44 pin) from the HDD.



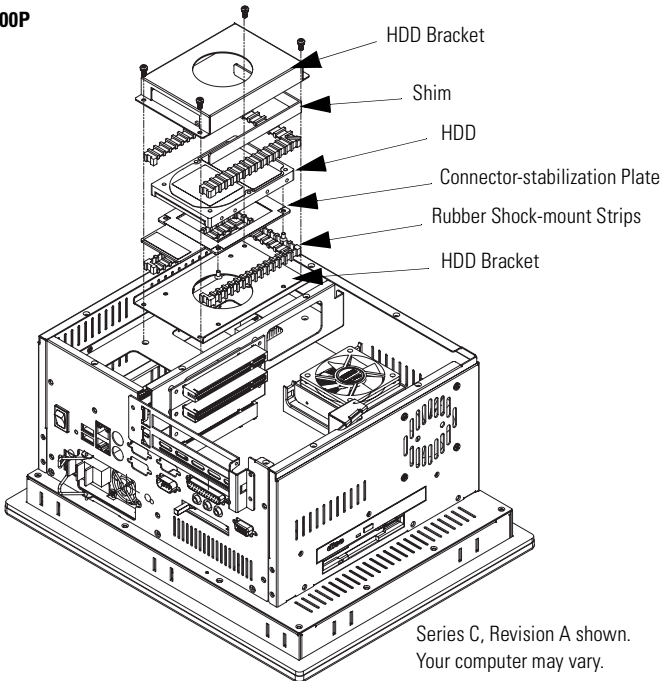
TIP

It is not necessary to separate the IDE adapter from the IDE cable. Some VersaView computers secured these parts with hot-melt glue. This glue can be softened with isopropyl alcohol.

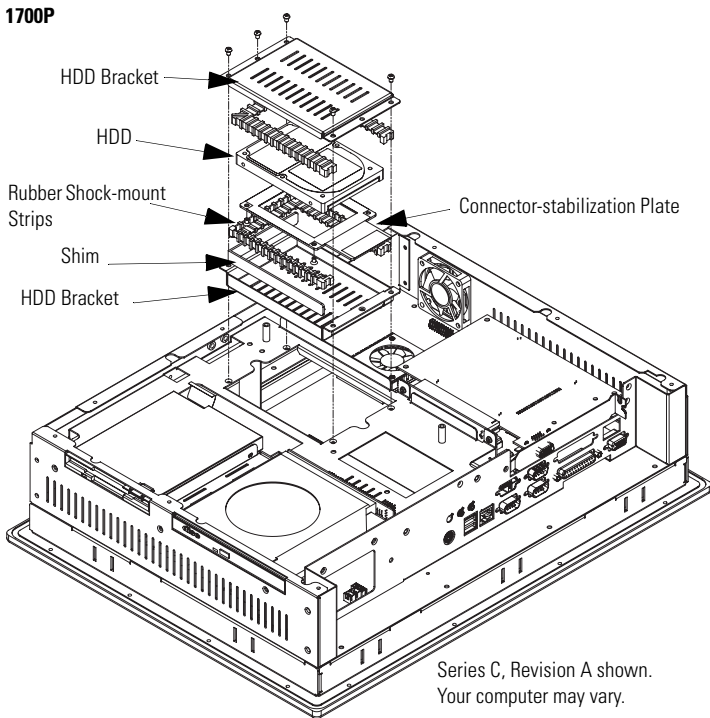
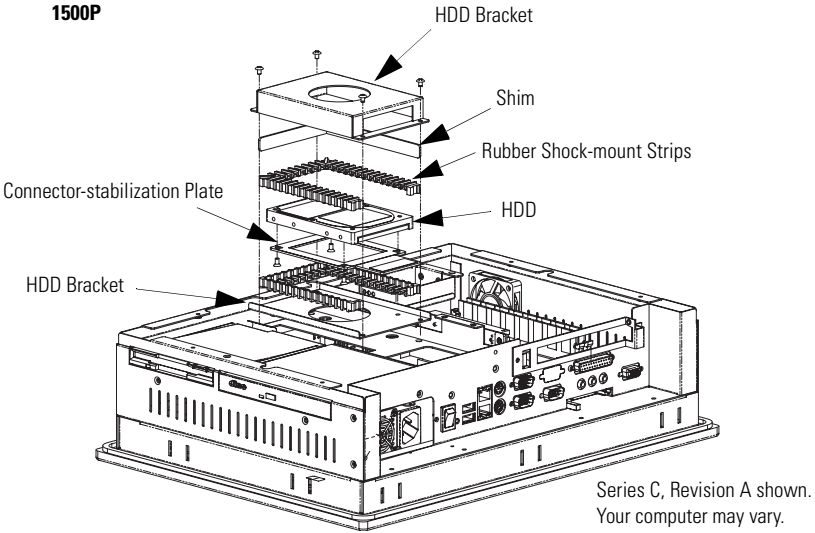
Series A VersaView computers do not use an adapter. The IDE cable connects directly to the HDD.

7. Lift the HDD out of the bracket.

1200P



Series C, Revision A shown.
Your computer may vary.



Install the New Hard Disk Drive

ATTENTION



Electrostatic discharge (ESD) can damage the computer and components. Make sure you work in a static-safe environment and wear a grounding strap whenever handling circuit boards, memory, or other internal components.

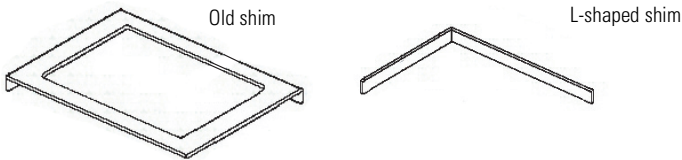
Follow these steps to install the hard disk drive (HDD).

1. Attach the HDD to the connector-stabilization plate using four M3 flat-head screws.

TIP

Dielectric layers face the HDD and screws are flush. The HDD label faces the back cover in all VersaView panel-mount computers.

2. Replace the old shim with the new L-shaped shim and place into bracket A.



3. Place rubber shock-mount strip A into bracket A.
4. Place the HDD within rubber shock-mount strip A, sliding the connector-stabilization plate through the opening of bracket A.

TIP

Use the shim with gray shock-mount strips. If you have black shock-mount strips you may omit the shim or replace the strips with catalog number 6189V-25HDDSA.

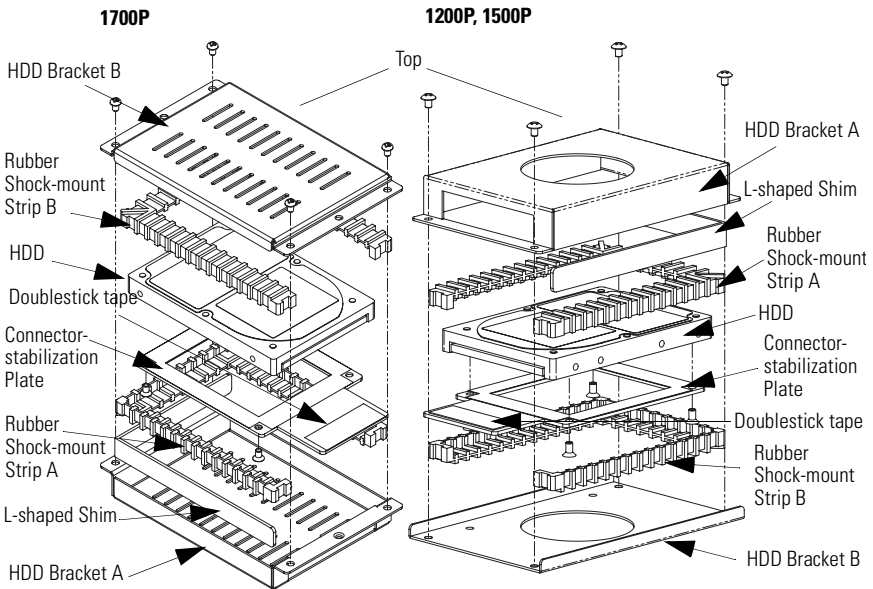
5. Remove the protective paper from the doublestick tape on the connector-stabilization plate.
 6. Connect the IDE adapter/cable to the HDD, aligning pin 1 of the HDD with the red stripe on the cable.
-

WARNING



Be careful to install the connector in the proper orientation. The connector is keyed to help this process. Make sure that the connector is not shifted by row or column from its correct position.

- Press the IDE adapter/cable firmly against the connector stabilization plate to adhere to the doublestick tape.



- Place rubber shock-mount strip B around the HDD as shown.
- Place HDD bracket B onto rubber shock-mount strip B.
- Attach the HDD assembly to the chassis using four M3 pan-head screws.

TIP

Series A VersaView computers do not use an adapter. The IDE cable connects directly to the HDD. The cable itself should be adhered to the tape.

- Affix the HDD upgrade label to the back cover of the unit with the left edge aligned with the left edge of the nameplate, for easy reference.

Be sure not to cover any other labels.

Install New Operating System and Restore Data

With the new hard disk drive (HDD) installed, you are now ready to:

- reinstall the operating system (OS).
- install any application programs previously stored on the old HDD.
- restore backup data.

Additional Resources

For additional information on the VersaView computers, refer to VersaView Integrated Display Computers User Manual, publication 6181P-UM001.

You can view or download publications at:

<http://www.literature.rockwellautomation.com>

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Rockwell Automation Support

Rockwell Automation provides technical information on the web to assist you in using its products. At <http://support.rockwellautomation.com>, you can find technical manuals, a knowledge base of FAQs, technical and application notes, sample code and links to software service packs, and a MySupport feature that you can customize to make the best use of these tools.

For an additional level of technical phone support for installation, configuration and troubleshooting, we offer TechConnect Support programs. For more information, contact your local distributor or Rockwell Automation representative, or visit <http://support.rockwellautomation.com>.

Installation Assistance

If you experience a problem with a hardware module within the first 24 hours of installation, please review the information that's contained in this manual. You can also contact a special Customer Support number for initial help in getting your module up and running:

United States	1.440.646.3223 Monday – Friday, 8am – 5pm EST
Outside United States	Please contact your local Rockwell Automation representative for any technical support issues.

New Product Satisfaction Return

Rockwell tests all of its products to ensure that they are fully operational when shipped from the manufacturing facility. However, if your product is not functioning and needs to be returned:

United States	Contact your distributor. You must provide a Customer Support case number (see phone number above to obtain one) to your distributor in order to complete the return process.
Outside United States	Please contact your local Rockwell Automation representative for return procedure.

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