Optical Disc Drive (ODD)

Catalog Number 6189V-SLDUAL

About This Publication

This publication provides pre- and post-installation information and procedures on how to replace the optical disc drive (ODD) in the VersaView Light Industrial 750R and 1450R non-display computers.
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://literature.rockwellautomation.com) describes some important differences between solid state equipment and electromechanical devices. Because of these differences, and 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.

Reproduction of the contents of this manual, in whole or in part, without written permission of Rockwell Automation, Inc., is prohibited.

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

**WARNING**
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.

**IMPORTANT**
Identifies information that is critical for successful application and understanding of the product.

**ATTENTION**
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.

**SHOCK HAZARD**
Labels may be on or inside the equipment, for example, a drive or motor, to alert people that dangerous voltage may be present.

**BURN HAZARD**
Labels may be on or inside the equipment, for example, a drive or motor, to alert people that surfaces may reach dangerous temperatures.
Electrostatic Discharge (ESD) Precautions

**ATTENTION**
Electrostatic discharge (ESD) can damage static-sensitive devices or microcircuitry. Observe proper packaging and grounding techniques to prevent damage.

Follow these precautions to prevent ESD discharge:
- Transport the computer and replacement parts in static-safe containers such as conductive tubes, bags, or boxes.
- Keep electrostatic-sensitive parts in their containers until they arrive at static-free stations.
- Cover workstations with approved static-dissipating material. Use a wrist strap connected to the work surface and properly grounded (earthed) tools and equipment.
- Keep work areas free of nonconductive material, such as ordinary plastic assembly aids and foam packing.
- Avoid touching pins, leads, or circuitry.
- Always handle the optical disc drive (ODD) by its metal frame and do not touch its internal components.
- Always hold components with a printed circuit board (PCB) by its edges and lay it with the assembly-side down.

Voltage Precautions
The computer contains live voltages. Disconnect all power to the computer before you install or remove system components.

**WARNING**
Disconnected power from the computer before removing components. Failure to disconnect power could result in severe electrical shock and/or damage the computer.
About the Optical Disc Drive (ODD)

The ODD supports reading and writing data to compatible CD and DVD media. Data may be written to CD media by using either the Windows XP CD writing wizard or the DVD burning software provided with this product. The burning software must be used when writing data to DVD media.

Before You Begin

Review the specifications of a new component before installing it to make sure it is compatible with the computer. Record the model and serial number, and any other pertinent information of new components for future reference.

ATTENTION

To avoid voiding your product warranty, use only Rockwell Automation Allen-Bradley approved replacement parts and accessories.

Required Tools

These tools are required:

- #2 Phillips screwdriver
- Antistatic wrist band (ships with product)
- Small wire cutter

Publication 6179R-IN004B-EN-P - November 2009
Pre-installation Procedure

**IMPORTANT** Make sure to read and understand the entire installation or removal procedure before you begin to configure the computer hardware.

**IMPORTANT** When installing hardware components that require access to internal components, first back up all computer data to avoid loss of data.

Perform the pre-installation procedure before removing the side cover or accessing a hardware component.

1. Turn off the computer and all peripherals connected to it.
   - If necessary, label each one to expedite reassembly.
2. Disconnect power from the computer to avoid exposure to high energy levels.
3. Disconnect telecommunication cables to avoid exposure to shock hazards from ringing voltages.

Install the Optical Disc Drive (ODD)

You can install or replace the ODD in your computer. The computer supports slim type CD-ROM, DVD-ROM/CD-RW, and DVD-RW drives.

Remove the Side Cover

Follow these procedures to remove the cover of the computer.

1. Perform the pre-installation procedure.
2. Unfasten the side cover from the system chassis by removing the two screws located on the rear edge of the side cover.
3. Slide the cover back about 1.5 cm (0.5 in.), then pull the panel away from the chassis.
Replace the Optical Disc Drive (ODD)

Follow this procedure to install or replace an ODD.

1. Disconnect the interface cable from the ODD backplane board. This cable contains both IDE data and power to the drive.
2. Cut the cable tie closest to the ODD backplane connector.
3. Remove the ODD assembly from the computer.
   a. Remove the two screws securing the ODD carrier to the system drive cage.
   b. Detach the ODD from the system drive cage.

4. Remove the ODD module from its carrier.
   a. Remove and discard the four screws securing the ODD module to its carrier.
   b. Remove the two screws securing the ODD backplane board.
      Retain these screws for reassembly.
   c. Detach the ODD backplane board from the ODD module.
8  Optical Disc Drive (ODD)

4. Detach the ODD module from its carrier.

5. Remove the new ODD module from its protective packaging.

6. Install the new ODD module in its carrier.
   a. Lay the ODD module on its carrier.
   b. Attach the ODD backplane board to the new ODD module.
   c. Secure the ODD backplane board with the two screws you removed in step 3-b.
   d. Secure the new ODD module using the four screws (M2x2.5) supplied with the accessory kit.

   The original screws you removed in step 3-a may not be compatible with your new ODD.

7. Install the new ODD assembly on the system drive cage.
a. Align the ODD assembly at the top of the system drive cage.

b. Secure the ODD assembly to the cage with the two screws you removed in step 2-a.

8. Connect the IDE cable on the ODD backplane board and install the new cable tie in the same manner as the original configuration.

9. Reinstall the side cover.

10. Perform the post-installation procedure.
Reinstall the Cover

After completing any removal or replacement procedure of internal components, reinstall the side cover.

1. Make sure the computer is in its normal upright position.

2. Perform steps 1…5 of the post-installation procedure.

3. Reinstall the side cover:
   a. Position the lower edge of the side cover at an angle to the hinge tabs along the bottom of the chassis.
   b. Rest the cover on the hinge tabs, tilting it up until it engages the locking mechanism at the top of the chassis.
   c. Slide the cover towards the front panel to position it into place.
   d. Secure the cover once it is attached to the chassis by replacing the two screws located on the rear edge of the side cover.

Reinstalling the Side Cover on the 750R Computer

Reinstalling the Side Cover on the 14750R Computer
Post-installation Procedure

Perform this post-installation procedure after installing or removing a hardware component.

1. Make sure all components are installed according to the step-by-step instructions.
2. Make sure that no loose tools or parts are left inside the computer.
3. Reinstall any expansion boards, peripherals, board covers, and system cables that have been previously removed.
4. Reinstall the side cover, if necessary.
5. Connect all external cables and power to the computer.
6. Press the power switch to turn on the computer.

Additional Resources

For additional information on the VersaView Light Industrial Non-display computers, refer to these publications.

<table>
<thead>
<tr>
<th>Resource</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VersaView Light Industrial Non-display, Computers User Manual, publication 6177R-UM001</td>
<td>Gives an overview of the system and provides procedures to install the computer, set up computer connections, operate the computer, and troubleshoot the computer.</td>
</tr>
<tr>
<td>VersaView Light Industrial Non-display, Computers Installation Instructions, publication 6177R-IN001</td>
<td>Provides pre-installation instructions and installation for and removal from the 750R computer and rack mount the 1450R computer. It also describes how to make peripheral, power, and network connections.</td>
</tr>
</tbody>
</table>

You can view or download publications at http://literature.rockwellautomation.com. To order paper copies of technical documentation, contact your local Rockwell Automation distributor or sales representative.
Rockwell Automation Support

Rockwell Automation provides technical information on the Web to assist you in using its products. At https://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 installations, 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.

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, it may need to be returned.

www.rockwellautomation.com