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Lenovo C50 Series All-In-One Computer Hardware Maintenance Manual



Machine Types: F0B1 [C50-30]



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Chapter 1. About this manual

This manual contains service and reference information for Lenovo C50-30 All-In-One computers listed on the cover. It is intended only for trained servicers who are familiar with Lenovo computer products.

Before servicing a Lenovo product, be sure to read the Safety Information.

The description of the TV-tuner card in this manual applies only to computers with a TV-tuner card installed. It does not apply to computers without a TV-tuner card.

Important Safety Information

Be sure to read all CAUTION and DANGER sections in this manual before following any of the instructions.

Veuillez lire toutes les consignes de type DANGER et ATTENTION du présent document avant d'exécuter les instructions.

Lesen Sie unbedingt alle Hinweise vom Typ "ACHTUNG" oder "VORSICHT" in dieser Dokumentation, bevor Sie irgendwelche Vorgänge durchführen

Leggere le istruzioni introdotte da ATTENZIONE e PERICOLO presenti nel manuale prima di eseguire una qualsiasi delle istruzioni

Certifique-se de ler todas as instruções de cuidado e perigo neste manual antes de executar qualquer uma das instruções

Es importante que lea todas las declaraciones de precaución y de peligro de este manual antes de seguir las instrucciones.

执行任何说明之前,请确保已阅读本书中的所有警告和危险声明。

執行任何指示前,請確實閱讀本書中的所有警告及危險聲明。

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Chapter 2. Safety information

This chapter contains the safety information that you need to be familiar with before servicing a computer.

General safety

Follow these rules to ensure general safety:

- Keep the areas around the computer clear and clean during and after maintenance.
- When lifting any heavy object:
 - 1. Ensure you can stand safely without slipping.
 - 2. Distribute the weight of the object equally across both feet.
 - 3. Lift slowly. Never move suddenly or twist when you attempt to lift.
 - 4. Lift by standing or by pushing up with your leg muscles; this action removes the strain from the muscles in your back.
 - Do not attempt to lift any objects that weigh more than 16 kg (35 lb) or objects that you think are too heavy for you.
- Do not perform any action that would create a hazard for the customer, or would make the computer unsafe.
- Before you start the computer, ensure that other service representatives and customer personnel are not in a position that would create a hazard for them.
- Place removed covers and other parts in a safe place, away from all personnel, while you are servicing the computer.
- Keep your tool case away from areas that people may walk through to ensure no-one trips over it.
- Do not wear loose clothing that can be trapped in the moving parts of a machine. Ensure that your sleeves are fastened or rolled up above your elbows. If your hair is long, tie or fasten it back.
- Insert the ends of your necktie or scarf inside clothing or fasten it with a non-conductive clip, approximately 8 centimeters (3 inches) from the end.
- Do not wear jewelry, chains, metal-frame eyeglasses, or metal fasteners for your clothing.
 Remember: Metal objects are good electrical conductors.
- Wear safety glasses when you are: hammering, drilling soldering, cutting wire, attaching springs, using solvents, or working in any other conditions that might be hazardous to your eyes.
- After service, reinstall all safety shields, guards, labels, and ground wires. Replace any safety device that is worn or defective.
- Reattach all covers correctly before returning the computer to the customer.

Electrical safety



CAUTION:

Electrical current from power, telephone, and communication cables can be hazardous. To avoid personal injury or equipment damage, disconnect any attached power cords, telecommunication cables, network cables, and modem cables before you open the computer covers, unless instructed otherwise in the installation and configuration procedures.

Observe the following rules when working on electrical equipment.

Important: Use only approved tools and test equipment. Some hand tools have handles covered with a soft material that does not insulate you when working with live electrical currents. Many customers have rubber floor mats near their equipment that contain small conductive fibers to decrease electrostatic discharge.

- Find the room emergency power-off (EPO) switch, disconnecting switch, or electrical outlet. If an electrical accident occurs, you can then operate the switch or unplug the power cord quickly.
- Do not work alone under hazardous conditions or near equipment that has hazardous voltages.
- Disconnect all power before:
 - Performing a mechanical inspection
 - Working near power supplies
 - Removing or installing Field Replaceable Units (FRUs)
- Before you start to work on the computer, unplug the power cord. If you cannot unplug it, ask the customer to power-off the electrical outlet that supplies power to the machine and to lock the electrical outlet in the off position.
- If you need to work on a computer that has exposed electrical circuits, observe the following precautions:
 - Ensure that another person, familiar with the power-off controls, is near you.
 Remember: Another person must be there to switch off the power, if necessary.
 - Use only one hand when working with powered-on electrical equipment; keep the other hand in your pocket or behind your back.
 - **Remember:** There must be a complete circuit to cause electrical shock. By observing the above rule, you may prevent a current from passing through your body.
 - When using a tester, set the controls correctly and use the approved probe leads and accessories for that tester.
 - Stand on suitable rubber mats (obtained locally, if necessary) to insulate you from grounds such as metal floor strips and machine frames.

Observe the special safety precautions when you work with very high voltages; these instructions are in the safety sections of the maintenance information. Use extreme care when measuring high voltages.

- Regularly inspect and maintain your electrical hand tools to ensure they are safe to use.
- Do not use worn or broken tools and testers.
- Never assume that power has been disconnected from a circuit. First, check that it has been powered off.
- Always look carefully for possible hazards in your work area. Examples of these hazards are wet floors, non-grounded power extension cables, conditions that may cause or allow power surges, and missing safety grounds.
- Do not touch live electrical circuits with the reflective surface of a plastic dental mirror. This surface is conductive, and touching a live circuit can cause personal injury and damage to the computer.
- Do not service the following parts with the power on when they are removed from their normal operating positions in a computer:
 - Power supply units
 - Pumps
 - Blowers and fans
 - Motor generators

and similar units. (This practice ensures correct grounding of the units.)

- · If an electrical accident occurs:
 - Use caution; do not become a victim yourself.

- Switch off power.
- Send another person to get medical aid.

Safety inspection guide

The intent of this inspection guide is to assist you in identifying potential hazards posed by these products. Each computer, as it was designed and built, had required safety items installed to protect users and service personnel from injury. This guide addresses only those items. However, good judgment should be used to identify potential safety hazards due to attachment of features or options not covered by this inspection guide.

If any hazards are present, you must determine how serious the apparent hazard could be and whether you can continue without first resolving the problem.

Consider the following items and the safety hazards they present:

- Electrical hazards, especially primary power (primary voltage on the frame can cause serious or fatal electrical shock).
- Explosive hazards, such as a damaged CRT face or bulging capacitor
- Mechanical hazards, such as loose or missing hardware

The guide consists of a series of steps presented as a checklist. Begin the checks with the power off, and the power cord disconnected.

Checklist:

- 1. Check exterior covers for damage (loose, broken, or sharp edges).
- 2. Power-off the computer. Disconnect the power cord.
- 3. Check the power cord for:
 - a. A third-wire ground connector in good condition. Use a meter to measure third-wire ground continuity for 0.1 ohm or less between the external ground pin and frame ground.
 - b. The power cord should be the appropriate type as specified in the parts listings.
 - c. Insulation must not be frayed or worn.
- 4. Remove the cover.
- 5. Check for any obvious alterations. Use good judgment as to the safety of any alterations.
- 6. Check inside the unit for any obvious hazards, such as metal filings, contamination, water or other liquids, or signs of fire or smoke damage.
- 7. Check for worn, frayed, or pinched cables.
- 8. Check that the power-supply cover fasteners (screws or rivets) have not been removed or tampered with.

Handling electrostatic discharge-sensitive devices

Any computer part containing transistors or integrated circuits (ICs) should be considered sensitive to electrostatic discharge (ESD). ESD damage can occur when there is a difference in charge between objects. Protect against ESD damage by equalizing the charge so that the computer, the part, the work mat, and the person handling the part are all at the same charge.

Notes:

- 1. Use product-specific ESD procedures when they exceed the requirements noted here.
- 2. Make sure that the ESD protective devices you use have been certified (ISO 9000) as fully effective.

When handling ESD-sensitive parts:

- Keep the parts in protective packages until they are inserted into the product.
- Avoid contact with other people while handling the part.
- Wear a grounded wrist strap against your skin to eliminate static on your body.
- Prevent the part from touching your clothing. Most clothing is insulative and retains a charge even when you are wearing a wrist strap.
- Use the black side of a grounded work mat to provide a static-free work surface. The mat is especially useful when handling ESD-sensitive devices.
- Select a grounding system, such as those listed below, to provide protection that meets the specific service requirement.

Note: The use of a grounding system is desirable but not required to protect against ESD damage.

- Attach the ESD ground clip to any frame ground, ground braid, or green-wire ground.
- Use an ESD common ground or reference point when working on a double-insulated or battery-operated system. You can use coax or connector-outside shells on these systems.
- Use the round ground-prong of the AC plug on AC-operated computers.

Grounding requirements

Electrical grounding of the computer is required for operator safety and correct system function. Proper grounding of the electrical outlet can be verified by a certified electrician.

Safety notices

The CAUTION and DANGER safety notices in this section are provided in the language of English.



DANGER

Electrical current from power, telephone and communication cables is hazardous.

To avoid a shock hazard:

- Do not connect or disconnect any cables or perform installation, maintenance, or reconfiguration of this product during an electrical storm.
- Connect all power cords to a properly wired and grounded electrical outlet.
- Connect any equipment that will be attached to this product to a properly wired outlet.
- When possible, use one hand only to connect or disconnect signal cables.
- Never turn on any equipment when there is evidence of fire, water, or structural damage.
- · Disconnect the attached power cords, telecommunications cables, network cables, and modem cables before you open the device covers, unless instructed otherwise in the installation and configuration procedures.
- Connect and disconnect cables as described in the following table when installing, moving, or opening covers on this product or attached devices.

To Connect	To Disconnect
1. Turn everything OFF.	Turn everything OFF.
2. First, attach all cables to devices.	First, remove power cords from outlets.
3. Attach signal cables to connectors.	Remove signal cables from connectors.
4. Attach power cords to outlet.	4. Remove all cables from devices.
5. Turn device ON.	



CAUTION:

When replacing the lithium battery, use only Part Number 45C1566 or an equivalent type battery recommended by the manufacturer. If your system has a module containing a lithium battery, replace it only with the same module type made by the same manufacturer. The battery contains lithium and can explode if not properly used, handled, or disposed of. Do not:

- Throw into or immerse in water
- Heat to more than 100°C (212°F)
- Repair or disassemble

Dispose of the battery as required by local ordinances or regulations.



When laser products (such as CD-ROMs, DVD-ROM drives, fiber optic devices, or transmitters) are installed, note the following:

- Do not remove the covers. Removing the covers of the laser product could result in exposure to hazardous laser radiation. There are no serviceable parts inside the device.
- Use of controls or adjustments or performance of procedures other than those specified herein might result in hazardous radiation exposure.

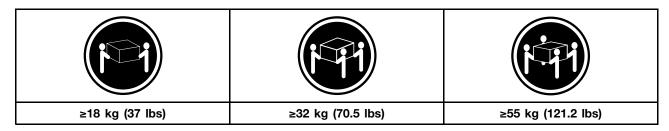




Some laser products contain an embedded Class 3A or Class 3B laser diode. Note the following:

These diodes emit radiation when open. Do not stare into the beam, do not view directly with optical instruments, and avoid direct exposure to the beam.





CAUTION:

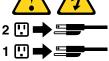
Use safe practices when lifting.



CAUTION:

The power control button on the device and the power switch on the power supply do not turn off the electrical current supplied to the device. The device also might have more than one power cord. To remove all electrical current from the device, ensure that all power cords are disconnected from the power source.







CAUTION:

Do not place any object weighing more than 82 kg (180 lbs.) on top of rack-mounted devices.



Chapter 3. General information

This chapter provides general information that applies to all computer models covered by this manual.

Specifications

This section lists the physical specifications for your computer.

This section lists the physical specifications for your computer.

Type Lenovo C50-30

This section lists the physical specifications.

Environment

Air temperature:

Operating: 10° to 35°C

Transit: -20° to 55°C

Humidity:

Operating: 35% to 80% Transit: 20% to 90% (40°C) Altitude: 86KPa to 106KPa

Electrical input:

Input voltage: 90V-264V(AC) Input frequency: 47Hz-63Hz

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Chapter 4. General Checkout

Attention: The drives in the computer you are servicing might have been rearranged or the drive startup sequence may have been changed. Be extremely careful during write operations such as copying, saving, or formatting. Data or programs can be overwritten if you select an incorrect drive.

General error messages appear if a problem or conflict is found by an application, the operating system, or both. For an explanation of these messages, refer to the information supplied with that software package.

Use the following procedure to help determine the cause of the problem:

- 1. Power-off the computer and all external devices.
- 2. Check all cables and power cords.
- 3. Set all display controls to the middle position.
- 4. Power-on all external devices.
- 5. Power-on the computer.
 - Look for displayed error codes.
 - Look for readable instructions or a main menu on the display.

If you did not receive the correct response, proceed to step 6.

If you did receive the correct response, proceed to step 7.

- 6. If one of the following happens, follow the instruction given:
 - If the computer displays a POST error, go to "POST error codes".
 - If the computer hangs and no error is displayed, continue at step 7.
- 7. If the test stops and you cannot continue, replace the last device tested.

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Chapter 5. Using the Setup Utility

The Setup Utility program is used to view and change the configuration settings of your computer, regardless of which operating system you are using. However, the operating system settings might override any similar settings in the Setup Utility program.

Starting the Lenovo BIOS Setup Utility program

To start the Lenovo BIOS Setup Utility program, do the following:

- 1. If your computer is already on when you start this procedure, shut down the operating system and turn off the computer.
- 2. Press and hold the **F1** key then turn on the computer. When the Lenovo BIOS Setup Utility program is displayed, release the **F1** key.

Note: If a Power-On Password or an Administrator Password has been set, the Setup Utility program menu will not be displayed until you type your password. For more information, see "Using passwords."

Viewing and changing settings

System configuration options are listed in the Lenovo BIOS Setup Utility program menu. To view or change settings, see "Starting the Setup Utility program."

You must use the keyboard when using the Lenovo BIOS Setup Utility menu. The keys used to perform various tasks are displayed on the bottom of each screen.

Using passwords

You can use the Lenovo BIOS Setup Utility program to set passwords to prevent unauthorized persons from gaining access to your computer and data. See "Starting the Setup Utility program." The following types of passwords are available:

- Administrator Password
- Power-On Password

You do not have to set any passwords to use your computer. However, if you decide to set passwords, read the following sections.

Password considerations

A password can be any combination of letters and numbers up to 16 characters (a-z and 0-9). For security reasons, it is a good idea to use a strong password that cannot be easily compromised. We suggest that passwords should follow these rules:

- For a strong password, use 7-16 characters and a mix of letters and numbers.
- Do not use your name or your user name.
- Do not use a common word or a common name.
- Use something significantly different from your previous password.

Attention: Administrator and Power-On passwords are not case sensitive.

Administrator Password

Setting an Administrator Password deters unauthorized persons from changing configuration settings. You might want to set an Administrator Password if you are responsible for maintaining the settings of several computers.

After you set an Administrator Password, a password prompt is displayed every time you access the Lenovo BIOS Setup Utility program.

If both the Administrator and Power-On Password are set, you can type either password. However, you must use your Administrator Password to change any configuration settings.

Setting, changing, or deleting an Administrator password

To set an Administrator Password, do the following:

Note: A password can be any combination of letters and numbers up to 16 characters (a-z and 0-9). For more information, see "Password considerations" on page 13.

- 1. Start the Lenovo BIOS Setup Utility program (see "Starting the Lenovo BIOS Setup Utility program" on page 13).
- 2. From the Security menu, select Set Administrator Password and press the Enter key.
- 3. The password dialog box will be displayed. Type the password then press the **Enter** key.
- 4. Re-type the password to confirm, then press the **Enter** key. If you typed the password correctly, the password will be installed.

To change an Administrator Password, do the following:

- 1. Start the Lenovo BIOS Setup Utility program (see "Starting the Lenovo BIOS Setup Utility program" on page 13).
- 2. From the Security menu, select Set Administrator Password and press the Enter key.
- 3. The password dialog box will be displayed. Type the current password then press the **Enter** key.
- 4. Type the new password, then press the **Enter** key. Re-type the password to confirm the new password. If you typed the new password correctly, the new password will be installed. A Setup Noticed confirming that changes have been saved will be displayed.

To delete a previously set Administrator Password, do the following:

- 1. From the Security menu, select Set Administrator Password and press the Enter key.
- 2. The password dialog box will be displayed. Type the current password and press the Enter key.
- 3. To delete an Administrator Password, leave each new password line item blank, then press the Enter key. A Setup Notice confirming that changes have been saved will be displayed.
- 4. Return to the Lenovo BIOS Setup Utility program menu and select the **Exit** option.
- 5. Select Save changes and Exit from the menu.

Power-On Password

When a Power-On Password is set, you cannot start the Lenovo BIOS Setup Utility program until a valid password is typed from the keyboard.

Setting, changing, or deleting a Power-On Password

Note: A password can be any combination of letters and numbers up to 16 characters (a-z and 0-9).

To set a Power-On Password, do the following:

- 1. Start the Lenovo BIOS Setup Utility program (See "Starting the Lenovo BIOS Setup Utility program" on page 13.)
- 2. From the Security menu, select Set Power-On Password and press the Enter key.
- 3. The password dialog box will be displayed. Type the password, then press the Enter key.
- 4. Re-type the password to confirm. If you typed the password correctly, the password will be installed.

To change a Power-On Password, do the following:

- 1. Start the Lenovo BIOS Setup Utility program (See "Starting the Lenovo BIOS Setup Utility program" on page 13.)
- 2. From the Security menu, select Set Power-On Password and press the Enter key.
- 3. The password dialog box will be displayed. Type the current password then press the Enter key.
- 4. Type the new password, then press the **Enter** key. Re-type the password to confirm the new password. If you typed the new password correctly, the new password will be installed. A Setup Noticed confirming that changes have been saved will be displayed.

To delete a previously set Power-On Password, do the following:

- 1. From the Security menu, select Set Power-On Password and press the Enter key.
- 2. The password dialog box will be displayed. Type the current password and press the Enter key.
- 3. To delete the **Power-On Password**, leave each new password line item blank, then press Enter. A Setup Notice confirming that changes have been saved will be displayed.
- 4. Return to the Lenovo BIOS Setup Utility program menu and select the Exit option.
- 5. Select Save changes and Exit from the menu.

Enabling or disabling a device

The Devices options is used to enable or disable user access to the following devices:	
USB Functions	Select whether to enable or disable USB (Universal Serial Bus) functions. If the functions are disabled, no USB devices can be used.
SATA Mode	When this feature is set to Disabled , all devices connected to the SATA connectors (e.g. hard disk drives or the optical disk drive) are disabled and cannot be accessed.
Onboard Audio Controller	Select whether to enable or disable the Onboard Audio Controller . When this feature is set to Disabled all devices connected to the audio connectors (e.g. headphones or a microphone) are disabled and cannot be used.
Onboard Ethernet Controller or LAN Boot Agent	Select whether to enable or disable the Onboard Ethernet Controller , or select whether to enable or disable load onboard PXE (Preboot Execution Environment).

To enable or disable a device, do the following:

- 1. Start the Setup Utility program (see "Starting the Setup Utility program" on page 13).
- 2. From the Setup Utility program menu, select **Devices**.
- 3. Select an option as follows:

Select **USB Setup**, press the **Enter** key, then select **USB Functions**.

Select ATA Device Setup, press the Enter key, then select SATA Mode.

Select Audio Setup, press the Enter key, then select Onboard Audio Controller.

Select Network Setup, press the Enter key, then select Onboard Ethernet Support or LAN Boot Agent.

- 4. Select **Disabled** or **Enabled** and press the **Enter** key.
- 5. Return to the Lenovo BIOS Setup Utility program menu and select the Exit option.
- 6. Select Save changes and Exit from the menu.

Notes:

- a. If you do not want to save the settings, select Discard changes and Exit from the menu.
- b. Select IDE/AHCI Mode: Device driver support is required for ACHI. Depending on how the hard disk image was installed, changing this setting may prevent the system from booting.

Selecting a startup device

If your computer does not boot from a device such as the CD/DVD-ROM drive disk or hard disk as expected, follow one of the procedures below.

Selecting a temporary startup device

Use this procedure to start up from any boot device.

Note: Not all CDs, DVDs or hard disk drives are bootable.

- 1. Turn off your computer.
- 2. Press and hold the **F12** key then turn on the computer. When the **Startup Device Menu** appears, release the **F12** kev.

Note: If the Startup Device Menu does not display using these steps, repeatedly press and release the **F12** key rather than keeping it pressed when turning on the computer.

3. Use ↑ and ⊥ arrows to select the desired startup device from the **Startup Device Menu** and press the Enter key to begin.

Note: Selecting a startup device from the Startup Device Menu does not permanently change the startup sequence.

Selecting or changing the startup device sequence

To view or permanently change the configured startup device sequence, do the following:

- 1. Start the Lenovo BIOS Setup Utility program (see "Starting the Lenovo BIOS Setup Utility program" on page 13).
- 2. From the Lenovo BIOS Setup Utility program main menu, select the **Startup** option.
- 3. Press the Enter key, and select the devices for the Primary Boot Sequence. Read the information displayed on the right side of the screen.
- 4. Use and arrows to select a device. Use the <+> or <-> keys to move a device up or down. Use the <x> key to exclude the device from or include the device in the boot sequence.
- 5. Return to the Lenovo BIOS Setup Utility program menu and select the **Exit** option.
- 6. Select Save changes and Exit from the menu.

Notes:

- a. If you do not want to save the settings, select Discard changes and Exit from the menu.
- b. If you have changed these settings and want to return to the default settings, select Load Optimal **Defaults** from the menu.

Exiting the Lenovo BIOS Setup Utility program

After you finish viewing or changing settings, press the Esc key to return to the Lenovo BIOS Setup Utility program main menu. You might have to press the **Esc** key several times. Do one of the following:

- If you want to save the new settings, select Save changes and Exit from the menu. When the Save & reset window shows, select the Yes button, and then press the Enter key to exit the Lenovo BIOS Setup Utility program.
- If you do not want to save the settings, select Discard changes and Exit from the menu. When the Reset Without Saving window shows, select the Yes button, and then press the Enter key to exit the Lenovo BIOS Setup Utility program.

Chapter 6. Symptom-to-FRU Index

The Symptom-to-FRU index lists error symptoms and possible causes. The most likely cause is listed first. Always begin with Chapter 4, "General Checkout," on page 11. This index can also be used to help you decide which FRUs to have available when servicing a computer. If you are unable to correct the problem using this index, go to "Undetermined problems" on page 20.

Notes:

- If you have both an error message and an incorrect audio response, diagnose the error message first.
- If you cannot run the diagnostic tests or you get a diagnostic error code when running a test but did receive a POST error message, diagnose the POST error message first.
- If you did not receive any error message look for a description of your error symptoms in the first part of this index.

Hard disk drive boot error

A hard disk drive boot error can be caused by the following.

Error	FRU/Action
The startup drive is not included in the boot sequence configuration.	Check the configuration and ensure the startup drive is in the boot sequence.
No operating system is installed on the boot drive.	Install an operating system on the boot drive.
The boot sector on the startup drive is corrupted.	The drive must be formatted. Do the following:
	 Attempt to back up the data on the failing hard disk drive.
	Use the operating system to format the hard disk drive.
The drive is defective.	Replace the hard disk drive.

Power Supply Problems

Follow these procedures if you suspect there is a power supply problem.

Check/Verify	FRU/Action
Check that the following are properly installed:	Reseat connectors
Power Cord	
On/Off Switch connector	
System Board Power Supply connectors	
Microprocessor connections	
Check the power cord.	Power Cord
Check the power-on switch.	Power-on Switch

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POST error codes

Each time you turn the computer on, it performs a series of tests to check that the system is operating correctly and that certain options are set. This series of tests is called the *Power-On Self-Test*, or *POST*. POST does the following:

- · Checks some basic motherboard operations
- · Checks that the memory is working correctly
- Starts video operations
- · Verifies that the boot drive is working

POST Error Message	Description/Action
Keyboard error	Cannot initialize the keyboard. Make sure the keyboard is properly connected to the computer and that no keys are held pressed during POST. To purposely configure the computer without a keyboard, select Keyboardless operation in Startup and set the option to Enabled . The BIOS then ignores the missing keyboard during POST.
Reboot and Select proper Boot device or Insert Boot Media in selected Boot device	The BIOS was unable to find a suitable boot device. Make sure the boot drive is properly connected to the computer. Make sure you have bootable media in the boot device.

Undetermined problems

- 1. Power-off the computer.
- 2. Remove or disconnect the following components (if connected or installed) one at a time.
 - a. External devices (modem, printer, or mouse)
 - b. Extended video memory
 - c. External Cache
 - d. External Cache RAM
 - e. Hard disk drive
 - f. Disk drive
- 3. Power-on the computer to re-test the system.
- 4. Repeat steps 1 through 3 until you find the failing device or component.

If all devices and components have been removed and the problem continues, replace the system board.

Chapter 7. Replacing hardware

Attention: Do not remove the computer cover or attempt any repair before reading the "Important safety information" in the Safety and Warranty Guide that was included with your computer. To obtain copies of the Safety and Warranty Guide, go to the Support Web site at: http://consumersupport.lenovo.com.

Note: Use only parts provided by Lenovo.

General information

Pre-disassembly instructions

Before starting the disassembly procedure, make sure that you do the following:

- 1. Turn off the power to the system and all peripherals.
- 2. Unplug all power and signal cables from the computer.
- 3. Place the system on a flat, stable surface.

Replacing the keyboard and mouse

Note: Your keyboard will be connected to a USB connector at either side or at the rear of the computer.

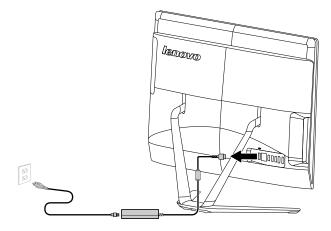
To replace the keyboard:

- Step 1. Remove any media (disks, CDs, or memory cards) from the drives, shut down the computer, and turn off all attached devices.
- Step 2. Unplug all power cords from electrical outlets.
- Step 3. Locate the connector for the keyboard. Refer to "Side view of the computer" and "Rear view of the computer".
- Step 4. Disconnect the defective keyboard cable from the computer and connect the new keyboard cable to the same connector.
- Step 5. The mouse can be replaced using the same method.

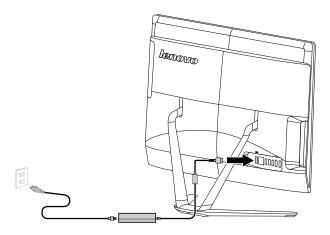
Replacing the power cord

Attention: Turn off the computer and wait 3 to 5 minutes to let it cool down before removing the cover.

- Step 1. Remove any media (disks, CDs, or memory cards) from the drives, shut down the operating system, and turn off the computer and all attached devices.
- Disconnect the power cord from the connector on the computer, then unplug the power cord Step 2. from electrical outlet.



Step 3. Connect the new power cord as shown.

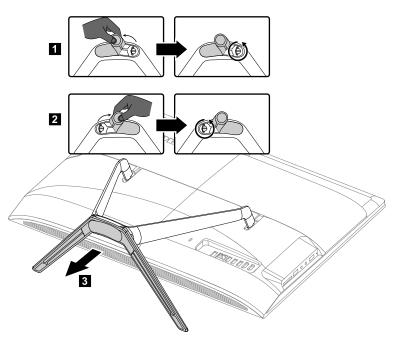


Removing the stand base

Attention: Turn off the computer and wait 3 to 5 minutes to let it cool down before removing the cover.

- Step 1. Remove any media (disks, CDs, or memory cards) from the drives, shut down the operating system, and turn off the computer and all attached devices.
- Step 2. Unplug all power cords from electrical outlets.
- Step 3. Disconnect all cables attached to the computer. This includes power cords, input/output (I/O) cables, and any other cables that are connected to the computer. Refer to "Left and right views" and "Rear view" for help with locating the various connectors.

- Step 4. Twist the hand screw ring counter-clockwise until the base comes loose to release the stand base from the stand holder. 12
- Step 5. Slide the stand base out from the holder then put it aside. 3



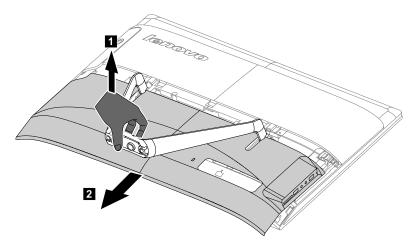
Step 6. Refer to "Installing the computer stand" to reinstall the stand base.

Removing the foot cover

Attention: Turn off the computer and wait 3 to 5 minutes to let it cool down before removing the cover.

- Step 1. Remove any media (disks, CDs, or memory cards) from the drives, shut down the operating system, and turn off the computer and all attached devices.
- Step 2. Unplug all power cords from electrical outlets.
- Step 3. Disconnect all cables attached to the computer. This includes power cords, input/output (I/O) cables, and any other cables that are connected to the computer. Refer to "Left and right views" and "Rear view" for help with locating the various connectors.
- Step 4. Remove the foot base. Refer to "Removing the foot base".

Step 5. Lift up the stand holder then slide out the foot cover as shown.



Step 6. To reattach the foot cover:

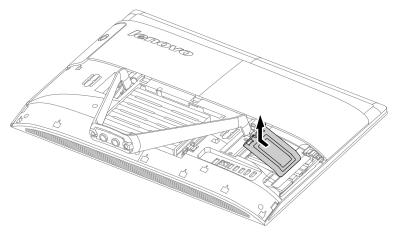
- a. Lift up the stand holder.
- b. Line up the foot cover with mounting holes on the back of the computer, then slide it back into position.

Replacing the memory module

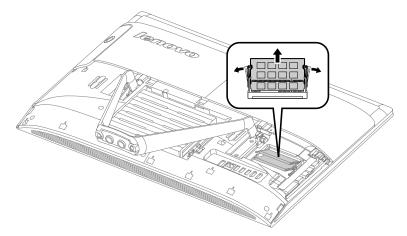
Attention: Turn off the computer and wait 3 to 5 minutes to let it cool down before removing the cover.

- Step 1. Remove any media (disks, CDs, or memory cards) from the drives, shut down the operating system, and turn off the computer and all attached devices.
- Step 2. Unplug all power cords from electrical outlets.
- Step 3. Disconnect all cables attached to the computer. This includes power cords, input/output (I/O) cables, and any other cables that are connected to the computer. Refer to "Left and right views" and "Rear view" for help with locating the various connectors.
- Step 4. Remove the stand base. Refer to "Removing the stand base".
- Step 5. Remove the foot cover. Refer to "Removing the foot cover".

Step 6. Remove the memory shielding as shown.



Step 7. Push out the latches on both sides of the memory socket to release the memory module 1 and gently pull the memory module upward to remove it from its socket. 2



Step 8. To install the new memory module:

- Align the new memory module with the memory socket, then insert it and push down on the top edge. Make sure the latches lock the memory module in place.
- Reattach the memory shielding.

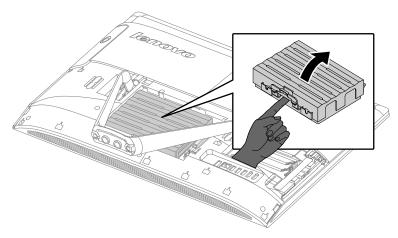
Step 9. Reattach the foot cover and stand base.

Replacing the hard disk drive

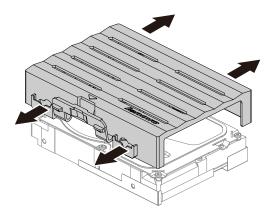
Attention: Turn off the computer and wait 3 to 5 minutes to let it cool down before removing the cover.

- Step 1. Remove any media (disks, CDs, or memory cards) from the drives, shut down the operating system, and turn off the computer and all attached devices.
- Step 2. Unplug all power cords from electrical outlets.
- Step 3. Disconnect all cables attached to the computer. This includes power cords, input/output (I/O) cables, and any other cables that are connected to the computer. Refer to "Left and right views" and "Rear view" for help with locating the various connectors.

- Step 4. Remove the stand base. Refer to "Removing the stand base".
- Step 5. Remove the foot cover. Refer to "Removing the foot cover".
- Step 6. Lift out the hard disk drive and bracket as shown.



Step 7. Push the lock pins outward to release the hard disk drive from the bracket.



Step 8. To install the new hard disk drive:

- a. Line up the new hard disk drive with the bracket and secure it with the pins.
- b. Connect the data and power cables to the new hard disk drive.
- c. Slide the hard disk drive and bracket back into position.

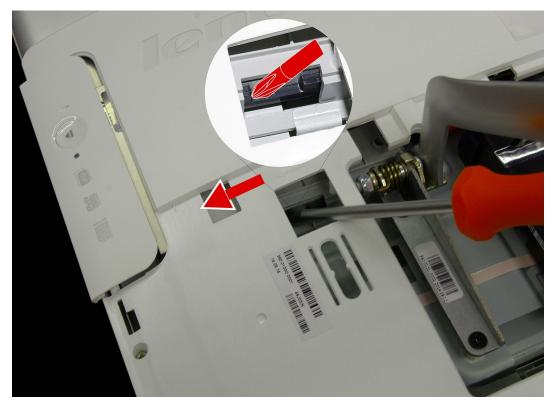
Step 9. Reattach the foot cover and stand base.

Replacing the optical drive

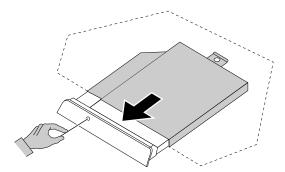
Attention: Turn off the computer and wait 3 to 5 minutes to let it cool down before removing the cover.

- Step 1. Remove any media (disks, CDs, or memory cards) from the drives, shut down the operating system, and turn off the computer and all attached devices.
- Step 2. Unplug all power cords from electrical outlets.

- Step 3. Disconnect all cables attached to the computer. This includes power cords, input/output (I/O) cables, and any other cables that are connected to the computer. Refer to "Left and right views" and "Rear view" for help with locating the various connectors.
- Step 4. Remove the stand base. Refer to "Removing the stand base".
- Step 5. Remove the foot cover. Refer to "Removing the foot cover".
- Step 6. Locate the optical removal notch, and then use a screw driver push the optical drive out.

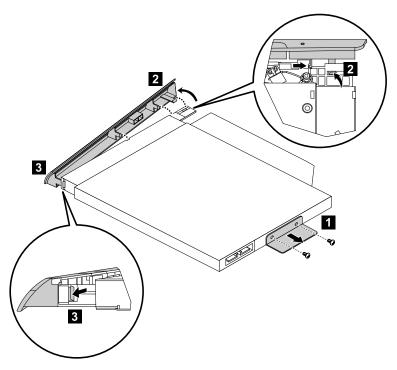


Step 7. Push a small iron stick (paper clip) into the small hole on the optical drive cover so that the disk springs out as shown.



- Step 8. Remove the 2 screws that secure the optical drive to the metal bracket. 1
- Step 9. Use a small flat head screwdriver to press and push out the pins that secure the cover to the disk. 2 3

Step 10. Separate the cover from the defective optical drive.



Step 11. To install the new optical drive:

- a. Align the new optical drive with the cover, and then push the cover back into position.
- b. Slide the new optical drive into the drive bay.

Step 12. Reattach the foot cover and stand base.

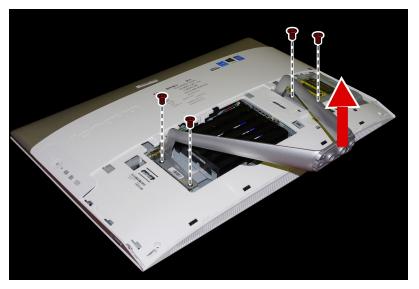
Removing the stand holder

Note: Turn off the computer and wait 3 to 5 minutes to let it cool down before removing the cover.

Note: It may be helpful to place the computer face-down on a soft flat surface for this procedure. Lenovo recommends that you use a blanket, towel, or other soft cloth to protect the computer screen from scratches or other damage.

To remove the stand holder:

- Step 1. Remove any media (disks, CDs, DVDs, or memory cards) from the drives, shut down the operating system, and turn off the computer and all attached devices.
- Step 2. Unplug all power cords from electrical outlets.
- Step 3. Disconnect all cables attached to the computer. This includes power cords, input/output (I/O) cables, and any other cables that are connected to the computer. Refer to "Left and right view" and "Rear view" for help with locating the various connectors.
- Step 4. Remove the stand base. Refer to "Removing the stand base".
- Step 5. Remove the foot cover. Refer to "Removing the foot cover".
- Step 6. Remove the four screws that secure the stand holder to the chassis, then lift up the stand holder to remove it.



Step 7. To reattach the stand holder:

- a. Align the holes on the stand holder with mounting holes on the chassis, place the stand holder back into position.
- b. Secure the stand holder to the chassis with the four screws.
- Step 8. Line up the foot cover with mounting holes on the back of the computer, then slide it back into position.
- Step 9. Reattach the stand base.

Removing the middle cover

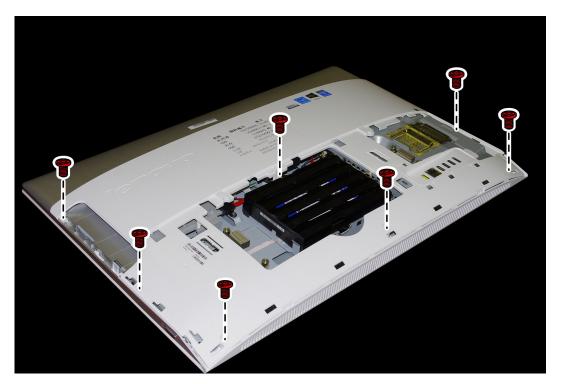
Note: Turn off the computer and wait 3 to 5 minutes to let it cool down before removing the cover.

Note: It may be helpful to place the computer face-down on a soft flat surface for this procedure. Lenovo recommends that you use a blanket, towel, or other soft cloth to protect the computer screen from scratches or other damage.

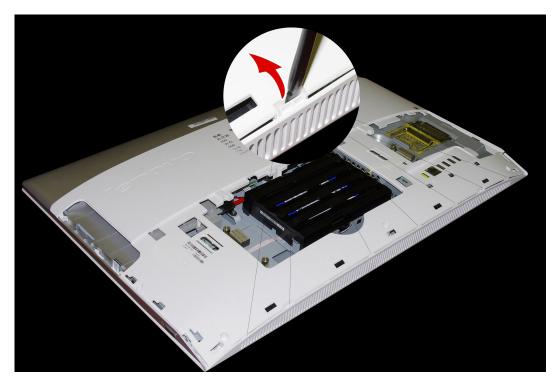
To remove the middle cover:

- Step 1. Remove any media (disks, CDs, DVDs, or memory cards) from the drives, shut down the operating system, and turn off the computer and all attached devices.
- Step 2. Unplug all power cords from electrical outlets.
- Step 3. Disconnect all cables attached to the computer. This includes power cords, input/output (I/O) cables, and any other cables that are connected to the computer. Refer to "Left and right view" and "Rear view" for help with locating the various connectors.
- Step 4. Remove the stand base. Refer to "Removing the stand base".
- Step 5. Remove the foot cover. Refer to "Removing the foot cover".
- Step 6. Remove the optical drive. Refer to "Replacing the optical drive".
- Step 7. Remove the stand holder. Refer to "Removing the stand holder".

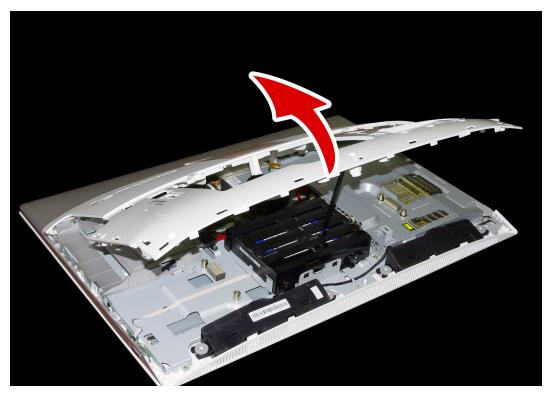
Step 8. Remove the seven screws that secure the middle cover to the chassis, then



Step 9. The middle cover is pinned to the rear deco, use a plastic spudger to release the middle cover as shown.



Step 10. Lift up the middle cover as shown to remove it.



Step 11. To reattach the middle cover:

- Line up the middle cover with chassis, then place the middle cover back.
- Secure the middle cover to the chassis with the seven screws.

Step 12. Reattach the stand holder, optical drive, foot cover and stand base.

Replacing the converter board

Note: Turn off the computer and wait 3 to 5 minutes to let it cool down before removing the cover.

Note: It may be helpful to place the computer face-down on a soft flat surface for this procedure. Lenovo recommends that you use a blanket, towel, or other soft cloth to protect the computer screen from scratches or other damage.

To replace the converter board:

- Remove any media (disks, CDs, DVDs, or memory cards) from the drives, shut down the operating system, and turn off the computer and all attached devices.
- Step 2. Unplug all power cords from electrical outlets.
- Disconnect all cables attached to the computer. This includes power cords, input/output (I/O) Step 3. cables, and any other cables that are connected to the computer. Refer to "Left and right view" and "Rear view" for help with locating the various connectors.
- Step 4. Remove the stand base. Refer to "Removing the stand base".
- Step 5. Remove the foot cover. Refer to "Removing the foot cover".
- Step 6. Remove the optical drive. Refer to "Replacing the optical drive".
- Step 7. Remove the stand holder. Refer to "Removing the stand holder".
- Step 8. Remove the middle cover. Refer to "Removing the middle cover".

- Step 9. Disconnect the two cables from the converter, and then remove the screw that secures the converter board to the chassis.
- Step 10. Slide out the converter board to remove it.



Step 11. To install the new converter board:

- a. Connect the two cables to the new converter board.
- b. Align then slide the new converter board into position.
- c. Secure the new converter board with the screw.

Step 12. Reattach the middle cover, optical drive, stand holder, foot cover and stand base.

Removing the EMI cover

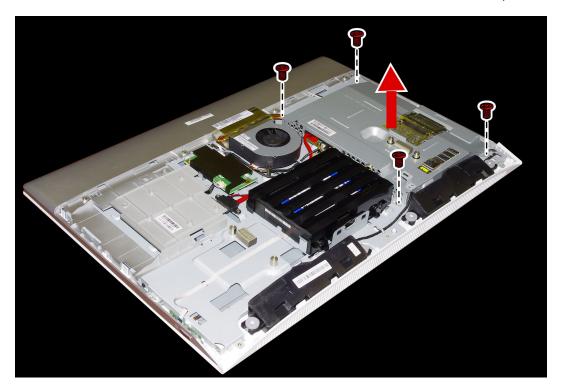
Note: Turn off the computer and wait 3 to 5 minutes to let it cool down before removing the cover.

Note: It may be helpful to place the computer face-down on a soft flat surface for this procedure. Lenovo recommends that you use a blanket, towel, or other soft cloth to protect the computer screen from scratches or other damage.

To replace the EMI cover

- Step 1. Remove any media (disks, CDs, DVDs, or memory cards) from the drives, shut down the operating system, and turn off the computer and all attached devices.
- Step 2. Unplug all power cords from electrical outlets.
- Step 3. Disconnect all cables attached to the computer. This includes power cords, input/output (I/O) cables, and any other cables that are connected to the computer. Refer to "Left and right view" and "Rear view" for help with locating the various connectors.
- Step 4. Remove the stand base. Refer to "Removing the stand base".
- Step 5. Remove the foot cover. Refer to "Removing the foot cover".
- Step 6. Remove the optical drive. Refer to "Replacing the optical drive".

- Step 7. Remove the stand holder. Refer to "Removing the stand holder".
- Step 8. Remove the middle cover. Refer to "Removing the middle cover".
- Step 9. Remove the four screws that secure the EMI cover to the chassis, and then lift it up.



Step 10. To reattach the EMI cover:

- Line up the holes on the EMI cover with mounting holes on the chassis, then place EMI cover back into position.
- b. Secure the EMI cover to the chassis with four screws.

Step 11. Reattach the middle cover, optical drive, stand holder, foot cover and stand base.

Replacing the Wi-Fi card

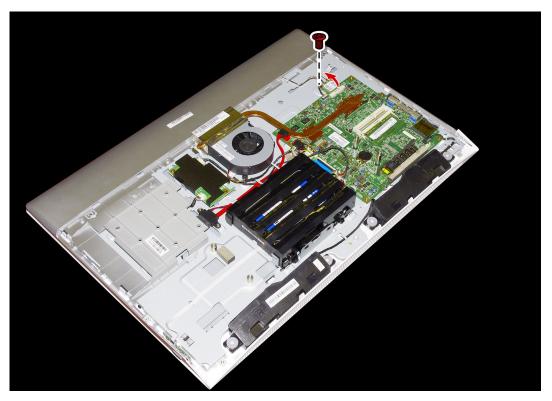
Note: Turn off the computer and wait 3 to 5 minutes to let it cool down before removing the cover.

Note: It may be helpful to place the computer face-down on a soft flat surface for this procedure. Lenovo recommends that you use a blanket, towel, or other soft cloth to protect the computer screen from scratches or other damage.

To replace the Wi-Fi card:

- Step 1. Remove any media (disks, CDs, DVDs, or memory cards) from the drives, shut down the operating system, and turn off the computer and all attached devices.
- Step 2. Unplug all power cords from electrical outlets.
- Step 3. Disconnect all cables attached to the computer. This includes power cords, input/output (I/O) cables, and any other cables that are connected to the computer. Refer to "Left and right view" and "Rear view" for help with locating the various connectors.
- Step 4. Remove the stand base. Refer to "Removing the stand base".
- Step 5. Remove the foot cover. Refer to "Removing the foot cover".

- Step 6. Remove the optical drive. Refer to "Replacing the optical drive".
- Step 7. Remove the stand holder. Refer to "Removing the stand holder".
- Step 8. Remove the middle cover. Refer to "Removing the middle cover".
- Step 9. Remove the EMI cover. Refer to "Removing the EMI cover".
- Step 10. Disconnect the antenna cables from the Wi-Fi card.
- Step 11. Remove the screw that secures the Wi-Fi card to the motherboard.
- Step 12. Lift up the Wi-Fi card to remove it from the socket.



Step 13. To install the new Wi-Fi card:

- a. Insert the notched end of the Wi-Fi card into the card port on the motherboard.
- b. Secure new the Wi-Fi card to the motherboard with the screw.
- c. Connect the antenna cables to the new Wi-Fi card.

Step 14. Reattach the EMI cover, middle cover, optical drive, stand holder, foot cover and stand base.

Replacing the heat-sink

Note: Turn off the computer and wait 3 to 5 minutes to let it cool down before removing the cover.

Note: It may be helpful to place the computer face-down on a soft flat surface for this procedure. Lenovo recommends that you use a blanket, towel, or other soft cloth to protect the computer screen from scratches or other damage.

To replace the heat-sink:

- Step 1. Remove any media (disks, CDs, DVDs, or memory cards) from the drives, shut down the operating system, and turn off the computer and all attached devices.
- Step 2. Unplug all power cords from electrical outlets.

- Step 3. Disconnect all cables attached to the computer. This includes power cords, input/output (I/O) cables, and any other cables that are connected to the computer. Refer to "Left and right view" and "Rear view" for help with locating the various connectors.
- Step 4. Remove the stand base. Refer to "Removing the stand base".
- Step 5. Remove the foot cover. Refer to "Removing the foot cover".
- Step 6. Remove the optical drive. Refer to "Replacing the optical drive".
- Step 7. Remove the stand holder. Refer to "Removing the stand holder".
- Step 8. Remove the middle cover. Refer to "Removing the middle cover".
- Step 9. Remove the EMI cover. Refer to "Removing the EMI cover".
- Step 10. Remove the sealing tape between the system fan and heat-sink.
- Step 11. Remove the five screws that secure the heat-sink to the motherboard and chassis.
- Step 12. Lift up the heat-sink to remove it.



Attention: Place the heat-sink upside down on a flat surface to prevent thermal grease from contaminating other components.

Attention: Use an alcohol pad to wipe the thermal grease off the CPU.

Step 13. To install the new heat-sink:

- Line up the new heat-sink with mounting holes on the motherboard, then place it into position.
- Follow the numbers printed on the new heat-sink to secure it in order using the screws. b.
- Use the sealing tape to seal the gap in-between the system fan and heat-sink.
- Step 14. Reattach the EMI cover, middle cover, optical drive, stand holder, foot cover and stand base.

Replacing the system fan

Note: Turn off the computer and wait 3 to 5 minutes to let it cool down before removing the cover.

Note: It may be helpful to place the computer face-down on a soft flat surface for this procedure. Lenovo recommends that you use a blanket, towel, or other soft cloth to protect the computer screen from scratches or other damage.

To replace the system fan

- Step 1. Remove any media (disks, CDs, DVDs, or memory cards) from the drives, shut down the operating system, and turn off the computer and all attached devices.
- Step 2. Unplug all power cords from electrical outlets.
- Step 3. Disconnect all cables attached to the computer. This includes power cords, input/output (I/O) cables, and any other cables that are connected to the computer. Refer to "Left and right view" and "Rear view" for help with locating the various connectors.
- Step 4. Remove the stand base. Refer to "Removing the stand base".
- Step 5. Remove the foot cover. Refer to "Removing the foot cover".
- Step 6. Remove the optical drive. Refer to "Replacing the optical drive".
- Step 7. Remove the stand holder. Refer to "Removing the stand holder".
- Step 8. Remove the middle cover. Refer to "Removing the middle cover".
- Step 9. Remove the EMI cover. Refer to "Removing the EMI cover".
- Step 10. Remove the sealing tape between the system fan and heat-sink.
- Step 11. Remove the two screws that secure the system fan to the chassis.
- Step 12. Disconnect the power cable from the motherboard.
- Step 13. Lift up the system fan to remove it.



Step 14. To install the new system fan:

- a. Place the new system fan into position, and then secure it to the chassis with two screws.
- b. Connect the system fan power cable to the connector on the motherboard.
- c. Use the sealing tape to seal the gap in-between the system fan and heat-sink.

Step 15. Reattach the EMI cover, middle cover, optical drive, stand holder, foot cover and stand base.

Replacing the speaker system

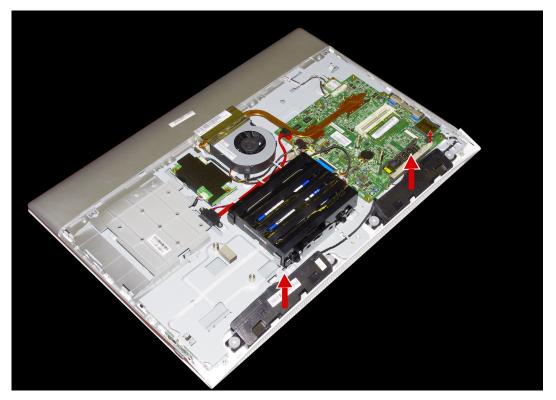
Note: Turn off the computer and wait 3 to 5 minutes to let it cool down before removing the cover.

Note: It may be helpful to place the computer face-down on a soft flat surface for this procedure. Lenovo recommends that you use a blanket, towel, or other soft cloth to protect the computer screen from scratches or other damage.

To replace the speaker system:

- Step 1. Remove any media (disks, CDs, DVDs, or memory cards) from the drives, shut down the operating system, and turn off the computer and all attached devices.
- Step 2. Unplug all power cords from electrical outlets.
- Step 3. Disconnect all cables attached to the computer. This includes power cords, input/output (I/O) cables, and any other cables that are connected to the computer. Refer to "Left and right view" and "Rear view" for help with locating the various connectors.
- Step 4. Remove the stand base. Refer to "Removing the stand base".
- Step 5. Remove the foot cover. Refer to "Removing the foot cover".
- Step 6. Remove the optical drive. Refer to "Replacing the optical drive".
- Step 7. Remove the stand holder. Refer to "Removing the stand holder".
- Step 8. Remove the middle cover. Refer to "Removing the middle cover".
- Step 9. Remove the EMI cover. Refer to "Removing the EMI cover".

- Step 10. Disconnect the speaker cables from the connector on the motherboard.
- Step 11. Lift up the speaker system to remove it.



Step 12. To install the new speaker system:

- a. Place the new speaker system into position.
- b. Connect the new speaker cables to the connector on the motherboard.

Step 13. Reattach the EMI cover, middle cover, optical drive, stand holder, foot cover and stand base.

Replacing the power switch board

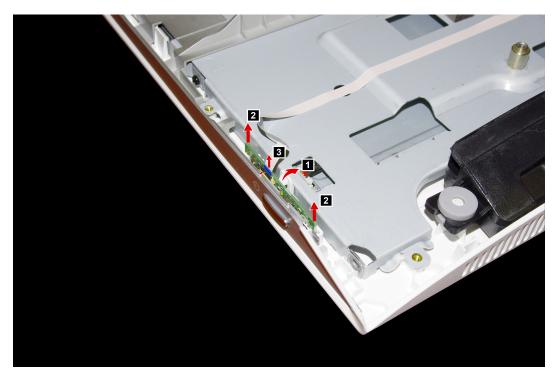
Note: Turn off the computer and wait 3 to 5 minutes to let it cool down before removing the cover.

Note: It may be helpful to place the computer face-down on a soft flat surface for this procedure. Lenovo recommends that you use a blanket, towel, or other soft cloth to protect the computer screen from scratches or other damage.

To replace the power switch board

- Step 1. Remove any media (disks, CDs, DVDs, or memory cards) from the drives, shut down the operating system, and turn off the computer and all attached devices.
- Step 2. Unplug all power cords from electrical outlets.
- Step 3. Disconnect all cables attached to the computer. This includes power cords, input/output (I/O) cables, and any other cables that are connected to the computer. Refer to "Left and right view" and "Rear view" for help with locating the various connectors.
- Step 4. Remove the stand base. Refer to "Removing the stand base".
- Step 5. Remove the foot cover. Refer to "Removing the foot cover".
- Step 6. Remove the optical drive. Refer to "Replacing the optical drive".

- Step 7. Remove the stand holder. Refer to "Removing the stand holder".
- Step 8. Remove the middle cover. Refer to "Removing the middle cover".
- Step 9. Push the locking pin outward to release the power switch board, then lift up the power switch board to remove it. 12
- Step 10. Disconnect the data cable from the power switch board. 3



Step 11. To install the power switch board:

- Line up the notches on the new power switch board with the keys in the slot.
- b. Secure the power switch board with the locking pin.

Step 12. Reattach the middle cover, optical drive, stand holder, foot cover and stand base.

Replacing the motherboard

Note: Turn off the computer and wait 3 to 5 minutes to let it cool down before removing the cover.

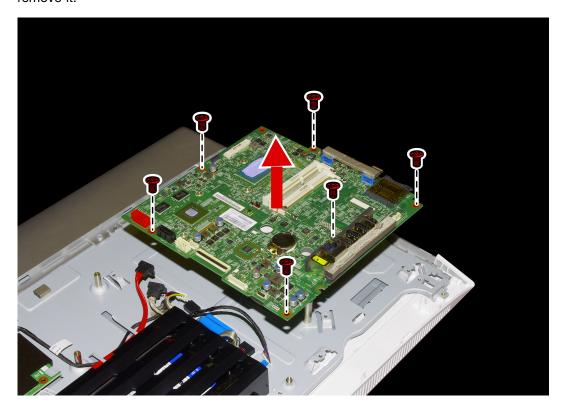
Note: It may be helpful to place the computer face-down on a soft flat surface for this procedure. Lenovo recommends that you use a blanket, towel, or other soft cloth to protect the computer screen from scratches or other damage.

To replace the motherboard:

- Step 1. Remove any media (disks, CDs, DVDs, or memory cards) from the drives, shut down the operating system, and turn off the computer and all attached devices.
- Step 2. Unplug all power cords from electrical outlets.
- Step 3. Disconnect all cables attached to the computer. This includes power cords, input/output (I/O) cables, and any other cables that are connected to the computer. Refer to "Left and right view" and "Rear view" for help with locating the various connectors.
- Step 4. Remove the stand base. Refer to "Removing the stand base".
- Step 5. Remove the foot cover. Refer to "Removing the foot cover".

- Step 6. Remove the memory modules. Refer to "Replacing a memory module".
- Step 7. Remove the optical drive. Refer to "Replacing the optical drive".
- Step 8. Remove the stand holder. Refer to "Removing the stand holder".
- Step 9. Remove the middle cover. Refer to "Removing the middle cover".
- Step 10. Remove the EMI cover. Refer to "Removing the EMI cover".
- Step 11. Remove the heat-sink. Refer to "Replacing the heat-sink".
- Step 12. Remove the WLAN card. Refer to "Replacing the WLAN card".
- Step 13. Unplug the following cables from connectors on the motherboard:
 - · Converter cable
 - System fan power cable
 - · Touch control board cable
 - Optical drive SATA cable (Red)
 - Hard disk drive SATA cable (Black)
 - Hard disk drive and optical drive power cable
 - Power switch board cable
 - Speaker system cable
 - Camera cable
 - LVDS cable

Step 14. Remove the six screws that secure the motherboard to the chassis and lift the motherboard up to remove it.



Step 15. To install the new motherboard:

a. Line up the holes on the new motherboard with the mounting holes chassis and place the new motherboard into position.

- b. Use the screws to secure the new motherboard to the chassis.
- c. Connect all the cables to the new motherboard.

Step 16. Install the following parts to the new motherboard:

- Wi-Fi card
- Heat-sink
- Memory module

Step 17. Reattach the EMI cover, middle cover, optical drive, stand holder, foot cover and stand base.

Removing the rear deco

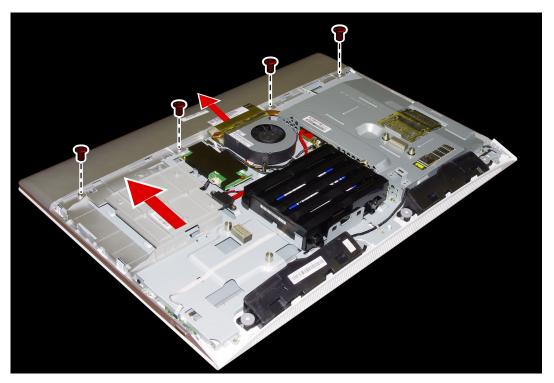
Note: Turn off the computer and wait 3 to 5 minutes to let it cool down before removing the cover.

Note: It may be helpful to place the computer face-down on a soft flat surface for this procedure. Lenovo recommends that you use a blanket, towel, or other soft cloth to protect the computer screen from scratches or other damage.

To remove the rear deco:

- Step 1. Remove any media (disks, CDs, DVDs, or memory cards) from the drives, shut down the operating system, and turn off the computer and all attached devices.
- Step 2. Unplug all power cords from electrical outlets.
- Step 3. Disconnect all cables attached to the computer. This includes power cords, input/output (I/O) cables, and any other cables that are connected to the computer. Refer to "Left and right view" and "Rear view" for help with locating the various connectors.
- Step 4. Remove the stand base. Refer to "Removing the stand base".
- Step 5. Remove the foot cover. Refer to "Removing the foot cover".
- Step 6. Remove the optical drive. Refer to "Replacing the optical drive".
- Step 7. Remove the stand holder. Refer to "Removing the stand holder".
- Step 8. Remove the middle cover. Refer to "Removing the middle cover".

Step 9. Remove the four screws that secure the rear deco to the chassis, then slide the rear deco upward to remove it.



Step 10. To reattach the rear deco:

- a. Line up the rear deco with the guide track on the chassis.
- b. Secure the rear deco to the chassis with the four screws.

Step 11. Reattach the middle cover, stand holder, optical drive, foot cover and stand base.

Replacing the camera

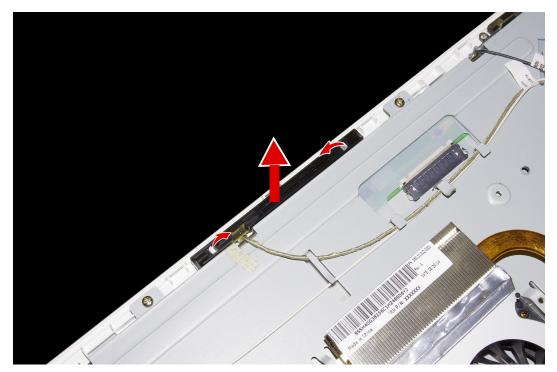
Note: Turn off the computer and wait 3 to 5 minutes to let it cool down before removing the cover.

Note: It may be helpful to place the computer face-down on a soft flat surface for this procedure. Lenovo recommends that you use a blanket, towel, or other soft cloth to protect the computer screen from scratches or other damage.

To replace the camera:

- Step 1. Remove any media (disks, CDs, DVDs, or memory cards) from the drives, shut down the operating system, and turn off the computer and all attached devices.
- Step 2. Unplug all power cords from electrical outlets.
- Step 3. Disconnect all cables attached to the computer. This includes power cords, input/output (I/O) cables, and any other cables that are connected to the computer. Refer to "Left and right view" and "Rear view" for help with locating the various connectors.
- Step 4. Remove the stand base. Refer to "Removing the stand base".
- Step 5. Remove the foot cover. Refer to "Removing the foot cover".
- Step 6. Remove the optical drive. Refer to "Replacing the optical drive".
- Step 7. Remove the stand holder. Refer to "Removing the stand holder".
- Step 8. Remove the middle cover. Refer to "Removing the middle cover".

- Step 9. Remove the rear deco. Refer to "Replacing the rear deco".
- Step 10. Pushing the camera locking pins as shown to release the camera.
- Step 11. Slide out the camera to remove it.



Step 12. Disconnect the camera data cable from the connector on the camera.

- Step 13. To install the new camera:
 - Connect the data cable to the new camera.
 - b. Slide the new camera into position, secure the camera to the front bezel with the locking pins.
- Step 14. Reattach the rear deco, middle cover, optical drive, stand holder, foot cover and stand base.

Replacing the LED panel module

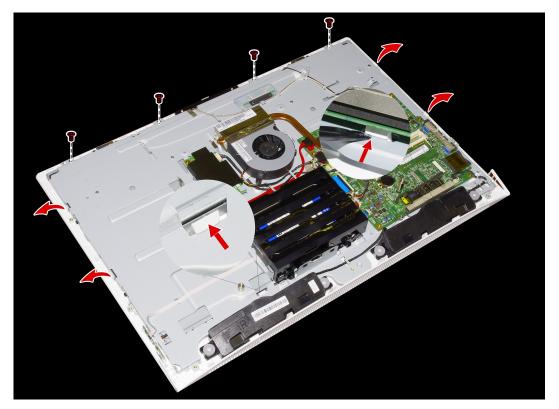
Note: Turn off the computer and wait 3 to 5 minutes to let it cool down before removing the cover.

Note: It may be helpful to place the computer face-down on a soft flat surface for this procedure. Lenovo recommends that you use a blanket, towel, or other soft cloth to protect the computer screen from scratches or other damage.

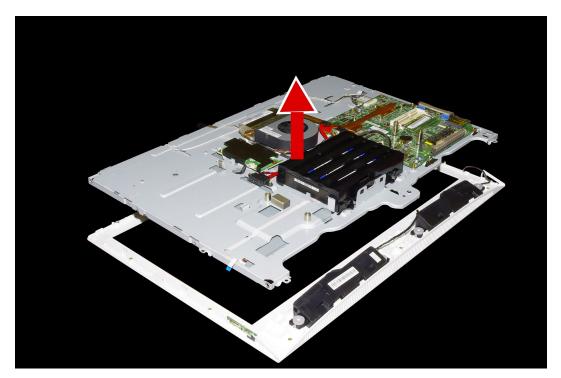
To replace the LED panel module:

- Step 1. Remove any media (disks, CDs, DVDs, or memory cards) from the drives, shut down the operating system, and turn off the computer and all attached devices.
- Step 2. Unplug all power cords from electrical outlets.
- Step 3. Disconnect all cables attached to the computer. This includes power cords, input/output (I/O) cables, and any other cables that are connected to the computer. Refer to "Left and right view" and "Rear view" for help with locating the various connectors.
- Step 4. Remove the stand base. Refer to "Removing the stand base".
- Step 5. Remove the foot cover. Refer to "Removing the foot cover".
- Step 6. Remove the optical drive. Refer to "Replacing the optical drive".

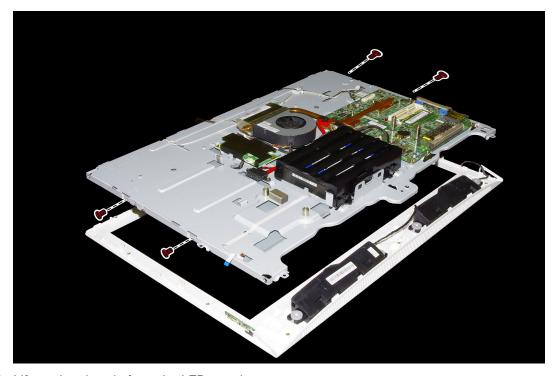
- Step 7. Remove the stand holder. Refer to "Removing the stand holder".
- Step 8. Remove the middle cover. Refer to "Removing the middle cover".
- Step 9. Remove the EMI cover. Refer to "Removing the EMI cover".
- Step 10. Remove the system fan. Refer to "Replacing the system fan".
- Step 11. Remove the speaker system. Refer to "Replacing the speaker system".
- Step 12. Remove the power switch board. Refer to "Replacing the power switch
- Step 13. Remove the rear deco. Refer to "Removing the rear deco".
- Step 14. Remove the camera. Refer to "Replacing the camera".
- Step 15. Disconnect the converter cable from the connector on the LED panel.
- Step 16. Disconnect the LVDS cable from the connector on the motherboard.
- Step 17. Remove the four screws that secure the chassis to the front bezel, push the six locking pins to release the chassis from the front bezel.



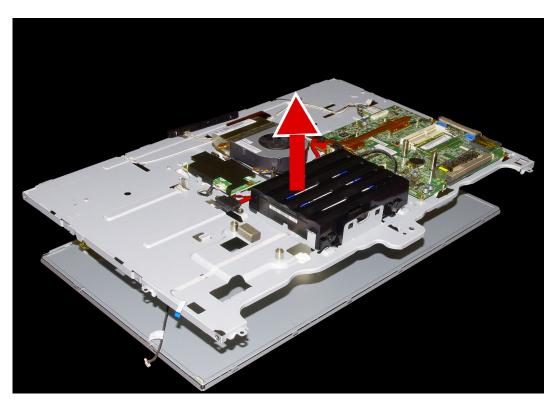
Step 18. Lift up the chassis from the front bezel.



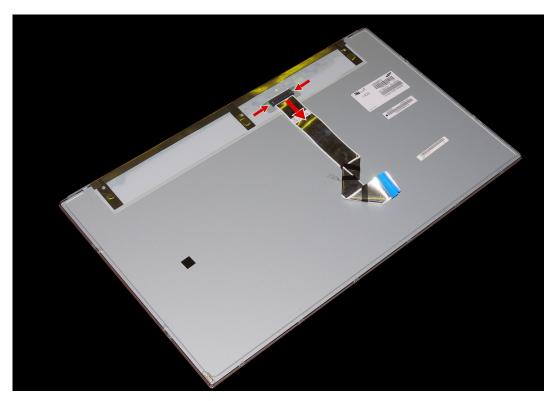
Step 19. Remove the four screws that secure the LED panel to the chassis.



Step 20. Lift up the chassis from the LED panel.



Step 21. Remove the LVDS cable from the connector on the LED panel.



Step 22. To install the new the LED panel module:

- a. Connect the LVDS cable to the LED panel.
- b. Line up the chassis with new LED panel module, place the chassis into position.
- c. Connect the converter cable to the connector on the LED panel.

- d. Connect the LVDS cable to the connector on the motherboard.
- e. Connect the power switch board cable to the connector on the power switch board.
- f. Secure the LED panel to the chassis with the four screws.
- Attach the camera to the new LED module.
- Line up the rear deco with the guide track on the LED module, then slide the rear deco into position.
- Secure the rear deco to the new LED module with the screws. i.
- Line up the chassis and new LED panel with the front bezel, and then place it into position. j.
- Secure the chassis and LED panel to the front bezel using the four screws.
- Attach the speaker module to the new LED module.
- Step 23. Reattach the system fan, EMI cover, middle cover, optical drive, computer stand, foot cover and stand base.

Chapter 8. FRU lists

This chapter lists the information on the field replaceable units (FRUs) for Lenovo C50-30 All-In-One desktop computer.

Attention: Be sure to read and understand all the safety information before replacing any FRUs.

Notes: FRUs that have a 1 or 2 in the CRU column are Customer Replaceable Units (CRUs).

- 1- identifies parts that are fairly simple to replace, requiring few or no tools.
- 2- identifies parts that are slightly more difficult to replace.
- N-identifies parts that are not to be replaced by the customer.

Item #	Description	Lenovo PN	CRU ID
	BDPLANAR		
	W C50-30 W8P 1G 2957U 820A MB	5B20G81614	
	W C50-30 W8P 2G 2957U 820A MB	5B20G81613	
	W C50-30 W8P 2957U UMA MB	5B20G81616	
	W C50-30W8P 1G I3 4030U 820A MB	5B20G81602	
	W C50-30W8P 2G I3 4030U 820A MB	5B20G81604	
	W C50-30W8PI3 4030UW/HD_INUMAMB	5B20G81608	
	W C50-30 W8P I3 4030U UMA MB	5B20G81611	
	W C50-30W8P 1G I5 4210U 820A MB	5B20G81615	
	W C50-30W8P 2G I5 4210U 820A MB	5B20G81618	
	W C50-30W8PI5 4210UW/HD_INUMAMB	5B20G81606	
	W C50-30 W8P I5 4210U UMA MB	5B20G81609	
	W C50-30 W8P 1G 3558U 820A MB	5B20G81612	
	W C50-30 W8P 2G 3558U 820A MB	5B20G81617	N
	W C50-30 W8P 3558U UMA MB	5B20G81619	
	W C5030 W8P I3_4005U UMA MB	5B20G94031	
	W C5030 W8P 2G I3_4005U_820A MB	5B20G94030	
	W C5030 W8P 1G I3_4005U_820A MB	5B20G94029	
	W C5030W8PI3_4005UW/HD_IN UMAMB	5B20G94028	
	W C50-30 W8S 1G 2957U 820A MB	5B20H15276	
	W C50-30 W8S 2G 2957U 820A MB	5B20H15279	
	W C50-30 W8S 2957U UMA MB	5B20H15285	
	W C50-30W8S 1G I3 4030U 820A MB	5B20H15273	
	W C50-30W8S 2G I3 4030U 820A MB	5B20H15280	
	W C50-30W8SI3 4030UW/HD_INUMAMB	5B20H15286	
	W C50-30 W8S I3 4030U UMA MB	5B20H15275	
	W C50-30W8S 1G I5 4210U 820A MB	5B20H15282	

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W C50-30W8S 2G I5 4210U 820A MB	5B20H15289	
W C50-30W8SI5 4210UW/HD_INUMAMB	5B20H15283	
W C50-30 W8S I5 4210U UMA MB	5B20H15290	
W C50-30 W8S 1G 3558U 820A MB	5B20H15278	
W C50-30 W8S 2G 3558U 820A MB	5B20H15284	
W C50-30 W8S 3558U UMA MB	5B20H15288	
W C5030 W8S I3_4005U UMA MB	5B20H15274	
W C5030 W8S 2G I3_4005U_820A MB	5B20H15281	
W C5030 W8S 1G I3_4005U_820A MB	5B20H15287	
W C5030W8SI3_4005UW/HD_IN UMAMB	5B20H15277	
CARDPOP	•	
W C50-30 Power Switch Board	5C50G86507	N
W C50-30 Converter Board	5C50G86520	
MECHANICAL	•	
MB Shield W C50-30 W/HDMI_OUT	5M20G86501	N
MB Shield W C50-30 W/HD_IN/OUT	5M20G86522	
STAND	•	
Stand Module W C50-30 Dark	5SE0G86490	N
Stand Module W C50-30 Light	5SE0G86510	
SPEAKERINT		N
Speaker W C50-30	5SB0G86486	IN
BRACKET	•	
Bracket ODD B5030	5B40G56047	
Bracket HDD B5030	5B40G56064	N
Middle Frame LG W C50-30	5B40G86491	
Middle Frame SAM W C50-30	5B40G86512	
SHIELD	•	N
Shielding HDD B5030	5S60G56046	N
CABLE		
W C50-30 Camera Cable	5C10G86498	N N
W C50-30 Converter To MB Cable	5C10G86521	
W C50-30 Power Switch Cable	5C10G86499	
W C50-30 HDD SATA Cable	5C10G86519	
W C50-30 Converter-Panel Cable LG	5C10G86495	
W C50-30 Converter-Panel Cable SAM	5C10G86516	
W C50-30 LVDS Cable	5C10G86492	
Antenna W C50-30 SPEED	5A30G86509	
Antenna W C50-30 WNC	5A30G86488	

COVER		
Slide Cover W C50-30 W/HD_OUT BLK	5CB0G86514	
SlideCover W C50-30W/HD_IN/OUT BLK	5CB0G86494	
Slide Cover W C50-30 W/HD_OUT WHT	5CB0G86518	
SlideCover W C50-30W/HD_IN/OUT WHT	5CB0G86500	
ODD Bezel W C50-30 BLK	5CB0G86496	
ODD Bezel W C50-30 WHT	5CB0G86515	
RearDeco W C50-30W/HD Dark/Silver	5CB0G86503	
RearDeco W C50-30W/HD Light/Silver	5CB0G86523	Ν
Rear Deco W C50-30 Dark/Silver	5CB0G86506	
Rear Deco W C50-30 Light/Silver	5CB0G86524	
Rear Cover W C50-30 W/HD_OUT BLK	5CB0G86504	
RearCover W C50-30 W/HD_IN/OUT BLK	5CB0G86525	
Rear Cover W C50-30 W/HD_OUT WHT	5CB0G86505	
RearCover W C50-30 W/HD_IN/OUT WHT	5CB0G86526	
Front Cover W C50-30 BLK NT	5CB0G86493	
Front Cover W C50-30 WHT NT	5CB0G86513	
DISPLAY		
LCD Module W C50-30 TS LG BLK	5D10G81603	
LCD Module W C50-30 TS SAM BLK	5D10G81610	
LCD Module W C50-30 TS LG WHT	5D10G81607	
LCD Module W C50-30 TS SAM WHT	5D10G81605	Ν
LCDModuleW C50-30 TS LGOfilm BLK	5D10H03852	
LCDModuleW C50-30 TS SAMOfilm BLK	5D10H03853	
LCDModuleW C50-30 TS LGOfilm WHT	5D10H03854	
LCDModuleW C50-30 TS SAMOfilm WHT	5D10H03855	
HEATSINK		
HEATSINK W C50-30 DIS CM	5H40G86497	N
HEATSINK W C50-30 DIS TaiSol	5H40G86517	
HEATSINK W C50-30 DIS Avc	5H40G86487	
HEATSINK W C50-30 UMA CM	5H40G86511	
HEATSINK W C50-30 UMA TaiSol	5H40G86502	
POWER		
DELTA ADP-120ZB BBHT common 120W adapter	36200439	1
Liteon PA-1121-04LB 120w common adapter	36200440	
ADP-90XD BD	54Y8917	
PA-1900-72FA	54Y8917	

HDD		
TSB Mars 4K 500G DT01ACA050 -LH	16200512	
Seagate Pharaoh 4K-Non-MC(ST500DM002)	16200674	
WDXL500A WD5000AAKX-08U6AA0 500G HDD-LH	16200544	
3.5inch SATA6G 7.2K Grenada BP 1.5 1TB	16200528	
3.5inch SATA6G 7.2K Grenada BP 2 1TB	16200688	1
TSB Mars 4K 1TB DT01ACA100 -LH	16200513	
WD10EZEX-08M2NA0	16200613	
3.5inch SATA6G 7.2K Grenada BP 1.5 2TB	16200529	
3.5inch SATA6G 7.2K Grenada BP 2 2TB	16200689	
TSB Mars 4K 2TB DT01ACA200 -LH	16200514	
ODD		
PSN UJ8FB 9.5mm Tray Rambo w/o bezel	25215310	
PLDS DU-8A5SH 9.5mm Rambo without bezel	25214499	N
HLDS GUB0N 9.5mm Rambo without bezel	00FC442	
PLDS DU-8A6SH 9.5mm Rambo without bezel	00FC442	
FAN	•	N.I
FAN System W C50-30 Avc	5F10G86508	N
RAM		
M471B5674QH0-YK0 2GB D3L-1600S Memory-HF	1100983	
HMT425S6AFR6A-PB 2GB D3L-1600S Memory-HF	1100643	
MT4KTF25664HZ-1G6E1 2GB D3L-1600S Memory	1100956	
Mic_R D9PSH 2GB D3L-1600S Memory-HF	1100965	
M471B5173DB0-YK0 4GB D3L-1600S Memory-HF	1100942	
HMT451S6BFR8A-PB 4GB D3L-1600S Memory-HF	1100985	
HMT451S6AFR8A-PB	1100638	
MT8KTF51264HZ-1G6E1 4GB D3L-1600S Memory-HF	1100957	
Mic_R D9QBJ 4GB D3L-1600S Memory-HF	1100967	
M471B5674QH0-YK0 2GB D3L-1600S Memory-HF	1100983	1
M471B5173DB0-YK0 4GB D3L-1600S Memory-HF	1100942	
HMT425S6AFR6A-PB 2GB D3L-1600S Memory-HF	1100643	
HMT451S6BFR8A-PB 4GB D3L-1600S Memory-HF	1100985	
Mic_R D9PSH 2GB D3L-1600S Memory-HF	1100965	
Mic_R D9QBJ 4GB D3L-1600S Memory-HF	1100967	
M471B1G73DB0-YK0 8GB D3L-1600S Memory-HF	1100943	
HMT41GS6BFR8A-PB 8GB D3L-1600S Memory-HF	1100986	
HMT41GS6AFR8A-PB	1100634	
MT16KTF1G64HZ-1G6E1	1100635	
Mic_R D9QBJ 8GB D3L-1600S Memory-HF	1101012	

Wifi Combo		
Liteon WB335 1x1BGN+BT4.0 HMC WLAN	20200437	
LTN RTL8723BE 1x1bgn+BT HMC WLAN	20200439	N
LTN RTL8821AE 1x1ac+BT4.0 Combo HMC	11202485	
CBT RTL8821AE 1x1ac BT combo HMC	20200571	
Camera	-	
AVC 720P 5840 Hi162 WB 1DM S Cam	20200643	
Bison 720P 5840 Hi162 WB 1DM S Cam	20200644	N
LT 720P 5840 Hi162 WB 1DM S Cam	20200667	
Camera W C50-30 W/Bracket	5B40G86489	
КВ	-	
Liteon LXH-SM-8825 Black Silk Mouse-LVT	25200528	
Sunrex LXH-EMS-10ZA Black Silk Mouse-LVT	25200530	
Liteon LXH-SM-8825 W-Silk Mouse	25201068	
Sunrex LXH-EMS-10ZA W-Silk Mouse	25201322	
Liteon SM-8861(WW) Mouse Black	25203464	
Liteon SM-8861 Mouse(No Battery) Black	25203465	
Liteon SM-8861 Mouse(MY) Black	25203466	
Liteon SM-8861(JP) Mouse-Black	25205773	
Liteon SM-8861(WW) 2.4G Mouse White	25211016	
Liteon SM-8861 2.4G Mouse(No Battery)WTE	25211017	
Liteon SM-8861 2.4G Mouse(MY) White	25211018	
Liteon SM-8861 2.4G Mouse(JP) White	25211019	
Sunrex EKB-10YA(US) B-Silk USB KB-LVT8	25209111	
Primax KB4721(US) B-Silk USB KB-LVT8	25209112	4
Doking DOK5321(US)B-Silk USB KB-LVT8	OOPC201	1
Sunrex EKB-10YA(TW) B-Silk USB KB-LVT8	25209114	
Sunrex EKB-10YA(TH) B-Silk USB KB-LVT8	25209115	
Sunrex EKB-10YA(CZ-SL) B-S USB KB-LVT8	25209116	
Sunrex EKB-10YA(IN) B-Silk USB KB-LVT8	25209117	
Sunrex EKB-10YA(RU) B-Silk USB KB-LVT8	25209118	
Sunrex EKB-10YA(UK) B-Silk USB KB-LVT8	25209119	
Sunrex EKB-10YA(Nordic) B-S USB KB-LVT8	25209120	
Sunrex EKB-10YA(LA) B-Silk USB KB-LVT8	25209121	
Sunrex EKB-10YA(AR) B-Silk USB KB-LVT8	25209122	
Sunrex EKB-10YA(SW) B-Silk USB KB-LVT8	25209123	
Sunrex EKB-10YA(GE) B-Silk USB KB-LVT8	25209124	
Sunrex EKB-10YA(TR) B-Silk USB KB-LVT8	25209125	
Sunrex EKB-10YA(SP) B-Silk USB KB-LVT8	25209126	
Sunrex EKB-10YA(SL) B-Silk USB KB-LVT8	25209127	<u>. </u>

Sunrex EKB-10YA(IT) B-SIIK USB KB-LVT8 Sunrex EKB-10YA(IFI) B-SIIK USB KB-LVT8 25209128 Sunrex EKB-10YA(IFI) B-SIIK USB KB-LVT8 25209131 Sunrex EKB-10YA(IFI) B-SIIK USB KB-LVT8 25209132 Sunrex EKB-10YA(IFI) B-SIIK USB KB-LVT8 25209132 Sunrex EKB-10YA(IFI) B-SIIK USB KB-LVT8 25209133 Sunrex EKB-10YA(IFI) B-SIIK USB KB-LVT8 25209133 Sunrex EKB-10YA(IFI) B-SIIK USB KB-LVT8 25209134 Sunrex EKB-10YA(IFI) B-SIIK USB KB-LVT8 25209135 Sunrex EKB-10YA(IFI) B-SIIK USB KB-LVT8 25209136 Sunrex EKB-10YA(IFI) B-SIIK USB KB-LVT8 25209137 Sunrex EKB-10YA(IFI) B-SIIK USB KB-LVT8 25209138 Sunrex EKB-10YA(IFI) B-SIIK USB KB-LVT8 25209139 Sunrex EKB-10YA(IFI) B-SIIK USB KB-LVT8 25209139 Sunrex EKB-10YA(IVI) W-S USB KB-LVT8 25209139 Sunrex EKB-10YA(IVI) W-SIIK USB KB-LVT8 25209145 Primax KB4721(US) W-SIIK USB KB-LVT8 Doking DOKS321(US)W-SIIK USB KB-LVT8 25209145 Doking DOKS321(US)W-SIIK USB KB-LVT8 25209146 Doking DOKS321(US)W-SIIK USB KB-LVT8 25209147 Sunrex EKB-10YA(IVI) W-SIIK USB KB-LVT8 25209148 Sunrex EKB-10YA(IVI) W-SIIK USB KB-LVT8 25209149 Sunrex EKB-10YA(IVI) W-SIIK USB KB-LVT8 25209149 Sunrex EKB-10YA(IVI) W-SIIK USB KB-LVT8 25209150 Sunrex EKB-10YA(IVI) W-SIIK USB KB-LVT8 25209151 Sunrex EKB-10YA(IVI) W-SIIK USB KB-LVT8 25209152 Sunrex EKB-10YA(IVI) W-SIIK USB KB-LVT8 25209153 Sunrex EKB-10YA(IVI) W-SIIK USB KB-LVT8 25209154 Sunrex EKB-10YA(IVI) W-SIIK USB KB-LVT8 25209155 Sunrex EKB-10YA(IVI) W-SIIK USB KB-LVT8 25209156 Sunrex EKB-10YA(IVI) W-SIIK USB KB-LVT8 25209166 Sunrex EKB-10YA(IVI) W-SIIK USB KB-LVT8 2		
Sunrex EKB-10YA(FR) B-Silk USB KB-LVT8 25209130	Sunrex EKB-10YA(IT) B-Silk USB KB-LVT8	25209128
Sunrex EKB-10YA(GK) B-Silk USB KB-LVT8 25209131	Sunrex EKB-10YA(HB) B-Silk USB KB-LVT8	25209129
Sunrex EKB-10YA(HG) B-SIIK USB KB-LVT8 25209132	Sunrex EKB-10YA(FR) B-Silk USB KB-LVT8	25209130
Sunrex EKB-10YA(BG) B-Silk USB KB-LVT8 Sunrex EKB-10YA(HR) B-Silk USB KB-LVT8 Sunrex EKB-10YA(JP) B-Silk USB KB-LVT8 Sunrex EKB-10YA(JP) B-Silk USB KB-LVT8 Sunrex EKB-10YA(EN-FR) B-S USB KB-LVT8 Sunrex EKB-10YA(EN-FR) B-S USB KB-LVT8 Sunrex EKB-10YA(PT) B-Silk USB KB-LVT8 Sunrex EKB-10YA(DU) B-S USB KB-LVT8 Sunrex EKB-10YA(DU) B-S USB KB-LVT8 Sunrex EKB-10YA(US) W-Silk USB KB-LVT8 Doking DOK5321(US)W-Silk USB KB-LVT8 Doking DOK5321(US)W-Silk USB KB-LVT8 Sunrex EKB-10YA(TW) W-Silk USB KB-LVT8 Sunrex EKB-10YA(TW) W-Silk USB KB-LVT8 Sunrex EKB-10YA(TW) W-Silk USB KB-LVT8 Sunrex EKB-10YA(IW) W-Silk USB KB-LVT8 Sunrex EKB-10YA(Sunrex EKB-10YA(GK) B-Silk USB KB-LVT8	25209131
Sunrex EKB-10YA(HR) B-Silk USB KB-LVT8 25209134	Sunrex EKB-10YA(HG) B-Silk USB KB-LVT8	25209132
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Sunrex EKB-10YA(SL) W-Silk USB KB-LVT8 25209160 Sunrex EKB-10YA(IT) W-Silk USB KB-LVT8 25209161 Sunrex EKB-10YA(HB) W-Silk USB KB-LVT8 25209162 Sunrex EKB-10YA(FR) W-Silk USB KB-LVT8 25209163 Sunrex EKB-10YA(GK) W-Silk USB KB-LVT8 25209164 Sunrex EKB-10YA(HG) W-Silk USB KB-LVT8 25209165 Sunrex EKB-10YA(BG) W-Silk USB KB-LVT8 25209166 Sunrex EKB-10YA(HR) W-Silk USB KB-LVT8 25209167 Sunrex EKB-10YA(JP) W-Silk USB KB-LVT8 25209169 Sunrex EKB-10YA(PT) W-Silk USB KB-LVT8 25209170	Sunrex EKB-10YA(TR) W-Silk USB KB-LVT8	25209158
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Sunrex EKB-10YA(HB) W-Silk USB KB-LVT8 25209162 Sunrex EKB-10YA(FR) W-Silk USB KB-LVT8 25209163 Sunrex EKB-10YA(GK) W-Silk USB KB-LVT8 25209164 Sunrex EKB-10YA(HG) W-Silk USB KB-LVT8 25209165 Sunrex EKB-10YA(BG) W-Silk USB KB-LVT8 25209166 Sunrex EKB-10YA(HR) W-Silk USB KB-LVT8 25209167 Sunrex EKB-10YA(JP) W-Silk USB KB-LVT8 25209168 Sunrex EKB-10YA(EN-FR) W-S USB KB-LVT8 25209169 Sunrex EKB-10YA(PT) W-Silk USB KB-LVT8 25209170	Sunrex EKB-10YA(SL) W-Silk USB KB-LVT8	25209160
Sunrex EKB-10YA(FR) W-Silk USB KB-LVT8 25209163 Sunrex EKB-10YA(GK) W-Silk USB KB-LVT8 25209164 Sunrex EKB-10YA(HG) W-Silk USB KB-LVT8 25209165 Sunrex EKB-10YA(BG) W-Silk USB KB-LVT8 25209166 Sunrex EKB-10YA(HR) W-Silk USB KB-LVT8 25209167 Sunrex EKB-10YA(JP) W-Silk USB KB-LVT8 25209168 Sunrex EKB-10YA(EN-FR) W-S USB KB-LVT8 25209169 Sunrex EKB-10YA(PT) W-Silk USB KB-LVT8 25209170	Sunrex EKB-10YA(IT) W-Silk USB KB-LVT8	25209161
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Sunrex EKB-10YA(HG) W-Silk USB KB-LVT8 25209165 Sunrex EKB-10YA(BG) W-Silk USB KB-LVT8 25209166 Sunrex EKB-10YA(HR) W-Silk USB KB-LVT8 25209167 Sunrex EKB-10YA(JP) W-Silk USB KB-LVT8 25209168 Sunrex EKB-10YA(EN-FR) W-S USB KB-LVT8 25209169 Sunrex EKB-10YA(PT) W-Silk USB KB-LVT8 25209170	Sunrex EKB-10YA(FR) W-Silk USB KB-LVT8	25209163
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Sunrex EKB-10YA(EN-FR) W-S USB KB-LVT8 25209169 Sunrex EKB-10YA(PT) W-Silk USB KB-LVT8 25209170	Sunrex EKB-10YA(HR) W-Silk USB KB-LVT8	25209167
Sunrex EKB-10YA(PT) W-Silk USB KB-LVT8 25209170	Sunrex EKB-10YA(JP) W-Silk USB KB-LVT8	25209168
	Sunrex EKB-10YA(EN-FR) W-S USB KB-LVT8	25209169
Sunrex EKB-10YA(BE-EN) W-S USB KB-LVT8 25209171	Sunrex EKB-10YA(PT) W-Silk USB KB-LVT8	25209170
	Sunrex EKB-10YA(BE-EN) W-S USB KB-LVT8	25209171

Sunrex EKB-10YA(DU) W-S USB KB-LVT8	25209172
Liteon SK-8861(US) 2.4G KB-Black8	25209175
Liteon SK-8861(US-MY) 2.4G KB-Black8	25209176
Liteon SK-8861(TW) 2.4G KB-Black8	25209177
Liteon SK-8861(TH) 2.4G KB-Black8	25209178
Liteon SK-8861(CS-SK) 2.4G KB-Black8	25209179
Liteon SK-8861(US-IN) 2.4G KB-Black8	25209180
Liteon SK-8861(RU) 2.4G KB-Black8	25209181
Liteon SK-8861(GB) 2.4G KB-Black8	25209182
Liteon SK-8861(Nordic) 2.4G KB-Black8	25209183
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Liteon SK-8861(LA-AR) 2.4G KB-Black8	25209185
Liteon SK-8861(SA) 2.4G KB-Black8	25209186
Liteon SK-8861(CH) 2.4G KB-Black8	25209187
Liteon SK-8861(DE) 2.4G KB-Black8	25209188
Liteon SK-8861(TR) 2.4G KB-Black8	25209189
Liteon SK-8861(ES) 2.4G KB-Black8	25209190
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Liteon SK-8861(IL) 2.4G KB-Black8	25209193
Liteon SK-8861(FR) 2.4G KB-Black8	25209194
Liteon SK-8861(GR) 2.4G KB-Black8	25209195
Liteon SK-8861(HU) 2.4G KB-Black8	25209196
Liteon SK-8861(BG) 2.4G KB-Black8	25209197
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Liteon SK-8861(EN-FR) 2.4G KB-Black8	25209200
Liteon SK-8861(PT) 2.4G KB-Black8	25209201
Liteon SK-8861(BE-EN) 2.4G KB-Black8	25209202
Liteon SK-8861(DU) 2.4G KB-Black8	25209203
Liteon SK-8861(US) 2.4G KB-White8	25210987
Liteon SK-8861(US-MY) 2.4G KB-White8	25210988
Liteon SK-8861(TW) 2.4G KB-White8	25210989
Liteon SK-8861(TH) 2.4G KB-White8	25210990
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Liteon SK-8861(GB) 2.4G KB-White8	25210994
Liteon SK-8861(Nordic) 2.4G KB-White8	25210995
Liteon SK-8861(LA) 2.4G KB-White8	25210996

Liteon SK-8861(LA-AF) 2.4G KB-White8 25210997 Liteon SK-8861(SA) 2.4G KB-White8 25210998 Liteon SK-8861(CH) 2.4G KB-White8 25210999 Liteon SK-8861(CH) 2.4G KB-White8 25211000 Liteon SK-8861(TP) 2.4G KB-White8 25211000 Liteon SK-8861(TP) 2.4G KB-White8 25211001 Liteon SK-8861(TP) 2.4G KB-White8 25211002 Liteon SK-8861(SL) 2.4G KB-White8 25211003 Liteon SK-8861(SL) 2.4G KB-White8 25211004 Liteon SK-8861(TI) 2.4G KB-White8 25211004 Liteon SK-8861(TP) 2.4G KB-White8 25211005 Liteon SK-8861(FP) 2.4G KB-White8 25211006 Liteon SK-8861(FP) 2.4G KB-White8 25211007 Liteon SK-8861(FP) 2.4G KB-White8 25211007 Liteon SK-8861(FP) 2.4G KB-White8 25211007 Liteon SK-8861(FP) 2.4G KB-White8 25211009 Liteon SK-8861(FP) 2.4G KB-White8 25211009 Liteon SK-8861(FP) 2.4G KB-White8 25211010 Liteon SK-8861(FP) 2.4G KB-White8 25211011 Liteon SK-8861(FP) 2.4G KB-White8 25211013 Liteon SK-8861(FP) 2.4G KB-White8 25211013 Liteon SK-8861(FP) 2.4G KB-White8 25211013 Liteon SK-8861(EN-FP) 2.4G KB-White8 25211014 Liteon SK-8861(EN-FP) 2.4G KB-White8 25211014 Liteon SK-8861(EN-FP) 2.4G KB-White8 25211015 Power Cord 31033657 Volex 1.0M C5 US Power Cord 31033857 Volex 1.0M C5 US Power Cord 31033658 Luxshare 1.0M C5 US Power Cord 31033658 Luxshare 1.0M C5 US Power Cord 31033650 Luxshare 1.0M C5 Din Japan Power Cord 310336397 Volex 1.0M C5 Din Japan Power Cord 310336397 Volex 1.0M C5 Din Japan Power Cord 310336396 Luxshare 1.0M C5 CC Power Cord 310336396 Volex 1.0M C5 Din Japan Power Cord 310336396 Volex 1.0M C5 Din Japan Power Cord 310336396 Volex 1.0M C5 UK Power Cord 310336396 Luxshare 1.0M C5 UK Power Cord 310336396 Volex 1.0M C5 UK Power Cord 310336392 Volex 1.0M C5 UK Power Cord 310336392 Volex 1.0M C5 UK Power Cord 310336392 Luxshare 1.0M C5 UK Power Cord 310336393 Luxshare 1.0M C5 UK Power Cord 310336393 Longwell B LAck single head 1.0M VDE Power Cord 310336393 Longwell B LAck single head 1.0M VDE Power Cord 310363332 Volex 1.0M C5 UK Power Cord 310363332 Longwell B LAck single head 1.0M VDE Power Cord 310363332 Longwell B LAck single head 1			
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Liteon SK-8861 (ES) 2.4G KB-White8	Liteon SK-8861(CH) 2.4G KB-White8	25210999	
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Liteon SK-8861(IL) 2.4G KB-White8	Liteon SK-8861(TR) 2.4G KB-White8	25211001	
Liteon SK-8861(IT) 2.4G KB-White8	Liteon SK-8861(ES) 2.4G KB-White8	25211002	
Liteon SK-8861(IL) 2.4G KB-White8	Liteon SK-8861(SL) 2.4G KB-White8	25211003	
Liteon SK-8861 (FR) 2.4G KB-White8	Liteon SK-8861(IT) 2.4G KB-White8	25211004	
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	Longwell B LAck single head 1.0M Italy C5 Power Cord®	31039104	

Volex 1.0M C5 Italy Power Cord	31049504
Luxshare 1.0M C5 Italy Power Cord	31503359
Longwell B LAck single head 1.0M Brazil Power Cord®	31035828
Volex 1.0M C5 Brazil Power Cord	31049505
Luxshare 1.0M C5 Brazil Power Cord	31503357
Longwell B LAck single head 1.0M Argentina C5 Power Cord®	31039100
Volex 1.0M C5 LA Power Cord	31049507
Luxshare 1.0M C5 LA Power Cord	31503356
Longwell B LAck single head 1.0M Denmark C5 Power Cord®	31039101
Volex 1.0M C5 Denmark Power Cord	31049503
Luxshare 1.0M C5 Denmark Power Cord	31503360
Longwell B LAck single head 1.0M Switzer LAnd C5 Power Cord®	31039103
Volex 1.0M C5 Switzer LAnd Power Cord	31049508
Luxshare 1.0M C5 Switzer LAnd Power Cord	31503361
Longwell B LAck single head 1.0M Israel C5 Power Cord®	31039107
Volex 1.0M C5 Israel Power Cord	31049502
Luxshare 1.0M C5 Israel Power Cord	31503362
Longwell B LAck single head 1.0M Taiwan C5 Power Cord®	31038885
Volex 1.0M C5 Taiwan Power Cord	31049499
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Longwell B LAck single head 1.0M Korea C5 Power Cord®	31039106
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Longwell B LAck single head 1.0M SA C5 Power Cord®	31039105
Volex 1.0M C5 South Africa Power Cord	31049501
Luxshare 1.0M C5 South Africa Power Cord	31503355

Chapter 9. General information

This chapter provides general information that applies to all computer models covered by this manual.

Additional Service Information

This chapter provides additional information that the service representative might find helpful.

Power management

Power management reduces the power consumption of certain components of the computer such as the system power supply, processor, hard disk drives, and some monitors.

Advanced configuration and power interface (ACPI) BIOS

As this computer has an ACPI BIOS system, the operating system is allowed to control the power management features of the computer and the settings for Advanced Power Management (APM) BIOS mode is ignored. Not all operating systems support ACPI BIOS mode.

Automatic Power-On features

The Automatic Power-On features within the Power Management menu allow you to enable and disable features that turn on the computer automatically.

- Wake Up on Alarm: You can specify a date and time at which the computer will be turned on automatically.
 This can be either a single event, a daily event or a weekly event.
- Wake Up on LAN: This feature allows LAN adapter card to wake the System.

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