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Lenovo C40 Series All-In-One Computer Hardware Maintenance Manual

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THOSE
WHO DO.™

Machine Types: F0B4 [C40-30] /F0B5 [C40-05]



Lenovo C40 Series All-In-One Computer Hardware Maintenance Manual

Machine Types: F0B4 [C40-30] /F0B5 [C40-05]

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Contents

Chapter 1. About this manual	1	Chapter 7. Replacing hardware	21
Important Safety Information	1	General information	21
Chapter 2. Safety information	3	Replacing the keyboard and mouse	22
General safety	3	Replacing the adapter	22
Electrical safety	3	Removing the stand base	23
Safety inspection guide	5	Removing the foot cover	24
Handling electrostatic discharge-sensitive devices	5	Replacing the memory module	25
Grounding requirements	6	Replacing the hard disk drive	26
Safety notices	6	Removing the stand holder	27
Chapter 3. General information	9	Removing the middle cover	28
Specifications	9	Replacing the optical drive	31
Chapter 4. General Checkout	11	Replacing the power switch board	33
Chapter 5. Using the Setup Utility.	13	Replacing the converter board	34
Starting the Lenovo BIOS Setup Utility program	13	Removing the EMI cover	35
Viewing and changing settings	13	Replacing the system fan	36
Using passwords	13	Replacing the heat-sink	37
Enabling or disabling a device	15	Replacing the speaker system	39
Selecting a startup device	16	Replacing the Wi-Fi card	40
Exiting the Lenovo BIOS Setup Utility program	17	Removing the rear deco	41
Chapter 6. Symptom-to-FRU Index	19	Replacing the motherboard	43
Hard disk drive boot error	19	Replacing the camera	44
Power Supply Problems	19	Replacing the LED panel module	46
POST error codes	20	Chapter 8. FRU lists	49
Undetermined problems	20	Chapter 9. FRU lists	59
		Chapter 10. General information	69
		Additional Service Information	69

Chapter 1. About this manual

This manual contains service and reference information for Lenovo C40-30/C40-05 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.

Veillez 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。

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 generatorsand 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
<ol style="list-style-type: none"> 1. Turn everything OFF. 2. First, attach all cables to devices. 3. Attach signal cables to connectors. 4. Attach power cords to outlet. 5. Turn device ON. 	<ol style="list-style-type: none"> 1. Turn everything OFF. 2. First, remove power cords from outlets. 3. Remove signal cables from connectors. 4. Remove all cables from devices.



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.



CAUTION:

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.

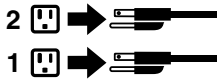


		
≥18 kg (37 lbs)	≥32 kg (70.5 lbs)	≥55 kg (121.2 lbs)

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 C40-30/C40-05

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

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.

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 AHCI. 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** key.

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: <ol style="list-style-type: none">1. Attempt to back up the data on the failing hard disk drive.2. 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: <ul style="list-style-type: none">• Power Cord• On/Off Switch connector• System Board Power Supply connectors• Microprocessor connections	Reseat connectors
Check the power cord.	Power Cord
Check the power-on switch.	Power-on Switch

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.

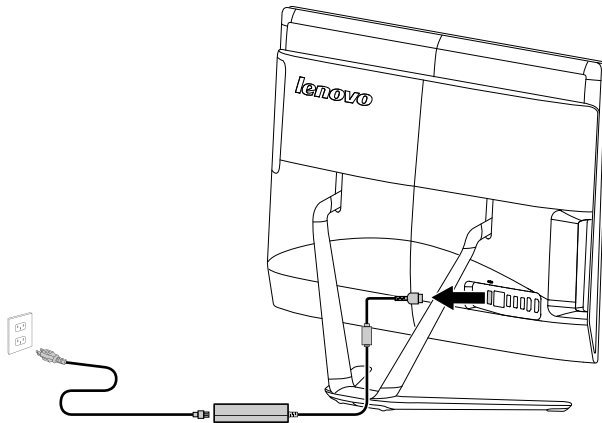
To replace the keyboard:

- 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.

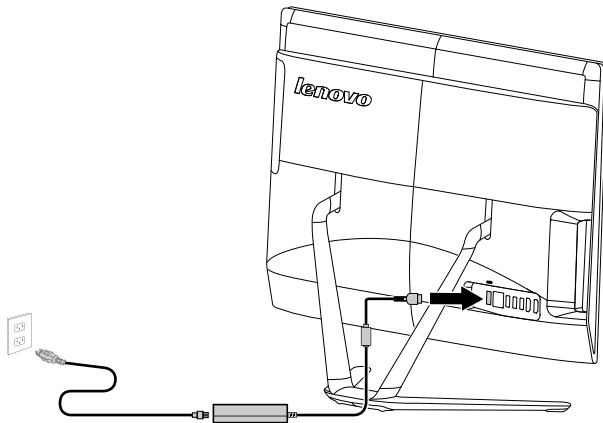
Replacing the adapter

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. Disconnect the adapter from the connector on the computer, then unplug the adapter from electrical outlet.



Step 3. Connect the new adapter as shown.



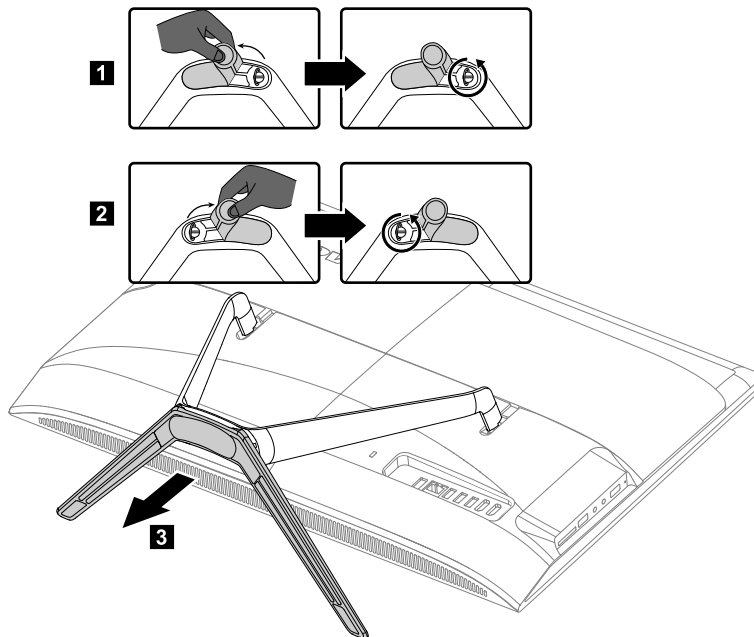
Removing the stand base

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

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 touch screen from scratches or other damage.

- 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. **1 2**
- 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.

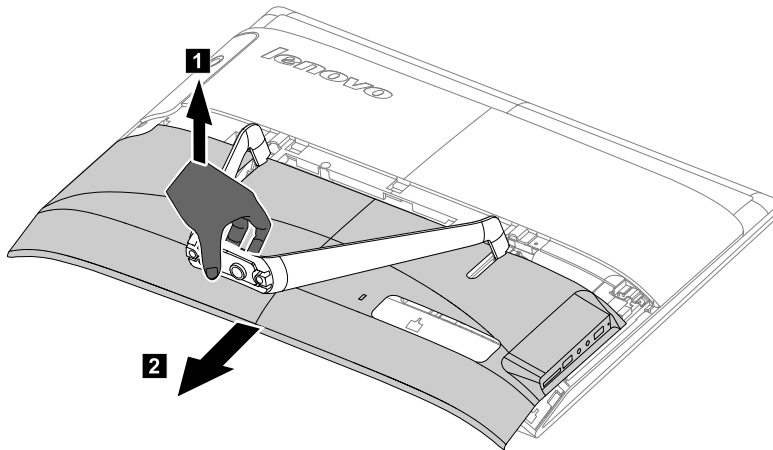
Removing the foot cover

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

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 touch screen from scratches or other damage.

- 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. **1 2**



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.

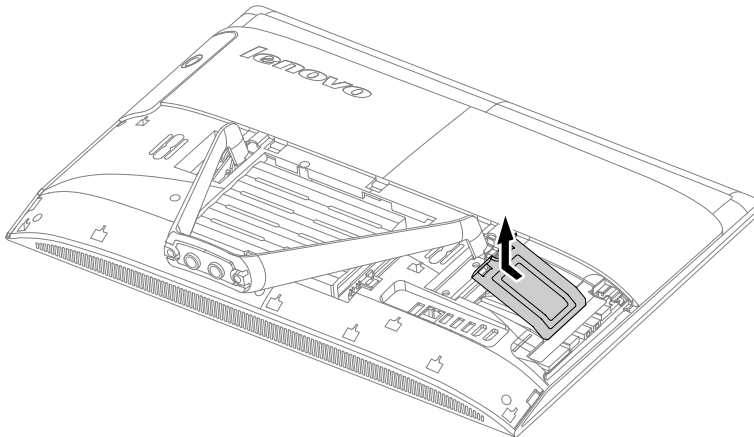
Replacing the memory module

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

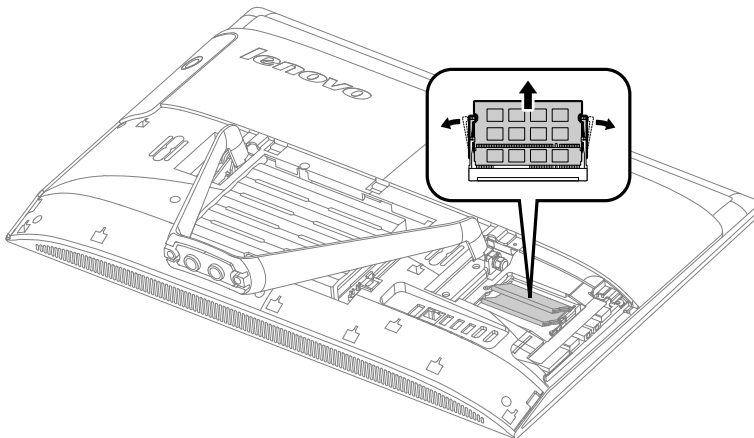
Note: It may be helpful to place the computer face-down on a soft flat surface for this procedure. Lenovo recommends that you use a blanket, towel, or other soft cloth to protect the touch screen from scratches or other damage.

- 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:

- a. 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.
- b. 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.

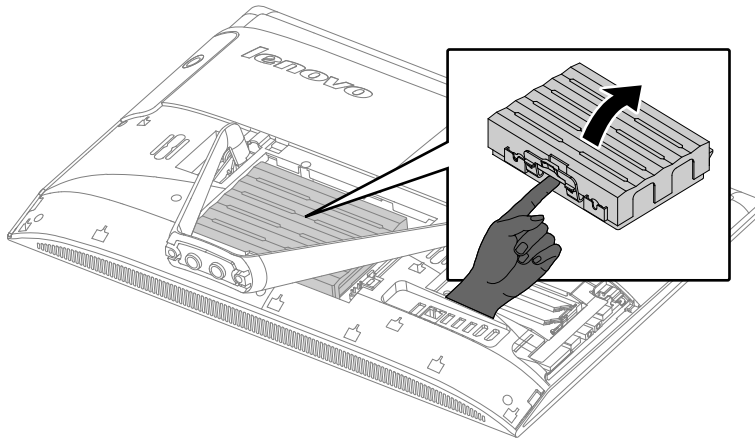
Note: It may be helpful to place the computer face-down on a soft flat surface for this procedure. Lenovo recommends that you use a blanket, towel, or other soft cloth to protect the touch screen from scratches or other damage.

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.

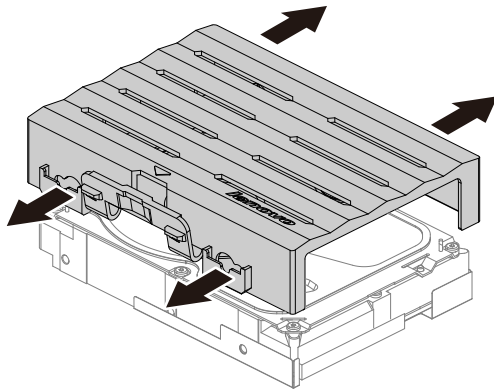
Step 2. Unplug all power cords from electrical outlets.

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.

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

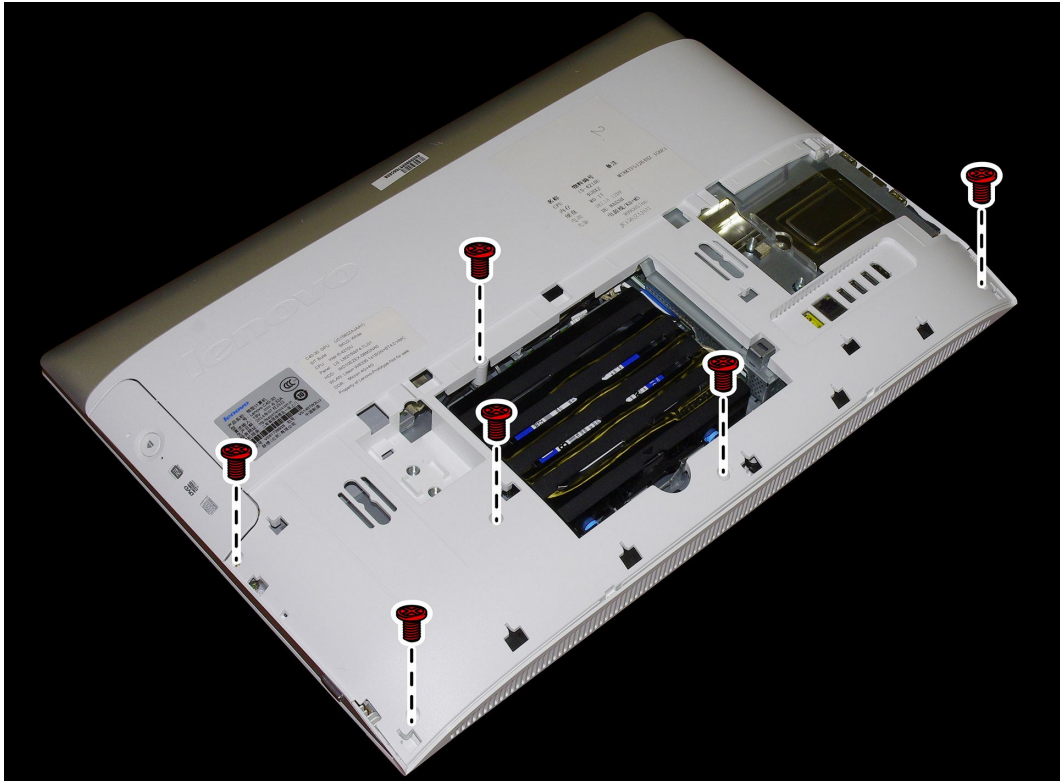
Note: Turn off the computer and wait 3 to 5 minutes to let it cool down before removing the cover.

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.

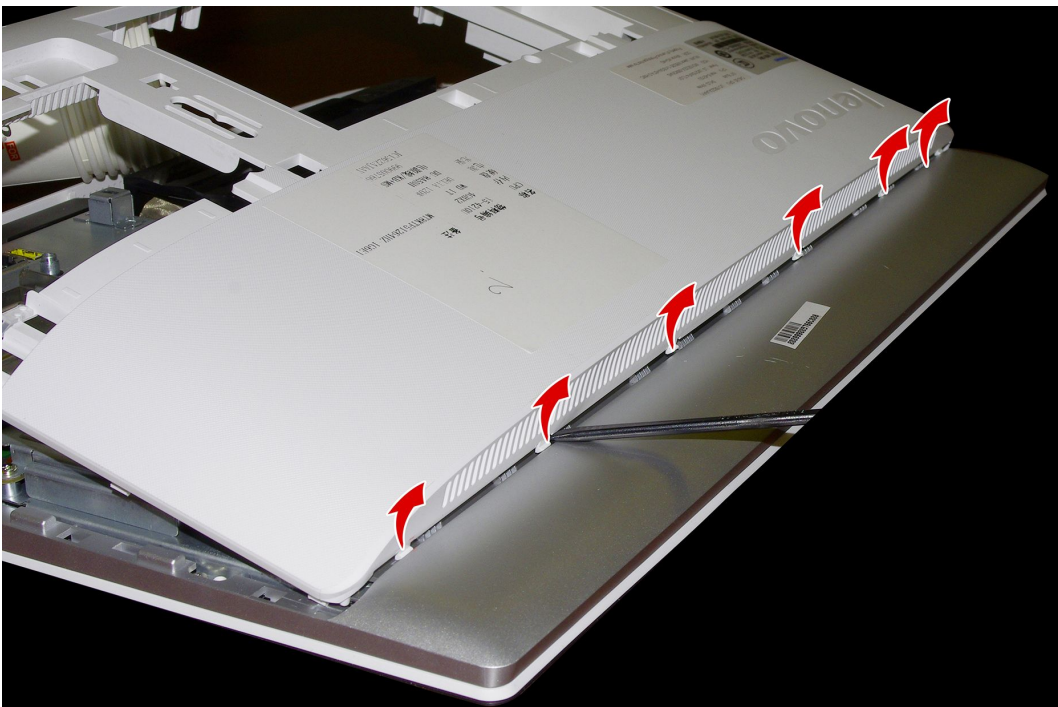
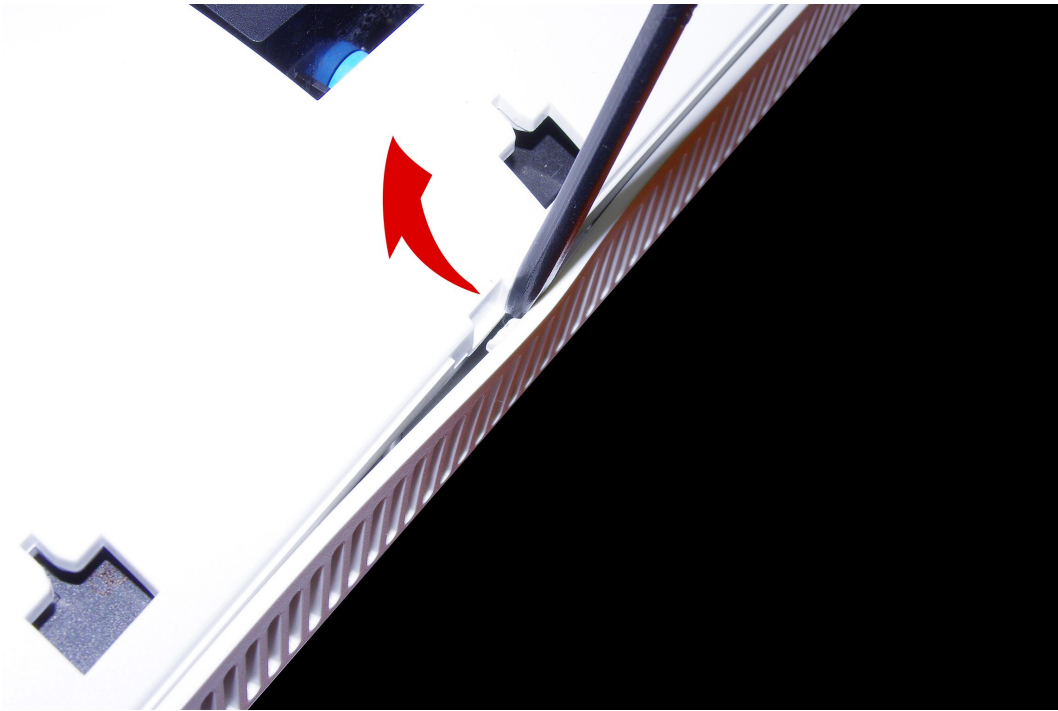
To remove the middle cover:

- 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.

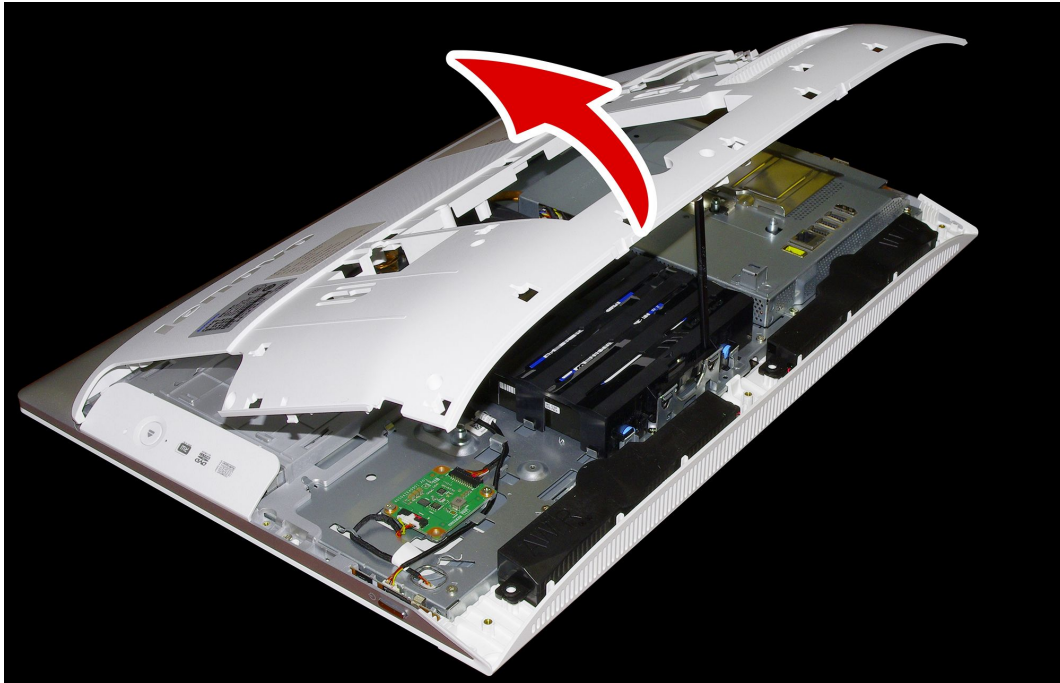
- Step 2. Unplug all power cords from electrical outlets.
- Step 3. Disconnect all cables attached to the computer. This includes power cords, input/output (I/O) cables, and any other cables that are connected to the computer. Refer to “Left and right view” and “Rear view” for help with locating the 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 stand holder. Refer to “Removing the stand holder”.
- Step 7. Remove the six screws that secure the middle cover to the chassis, then



- Step 8. The middle cover is pinned to the front bezel. Use the flat head of a spudger to pries out the middle cover as shown.



Step 9. Lift up the middle cover as shown to remove it.



Step 10. To reattach the middle cover:

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

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

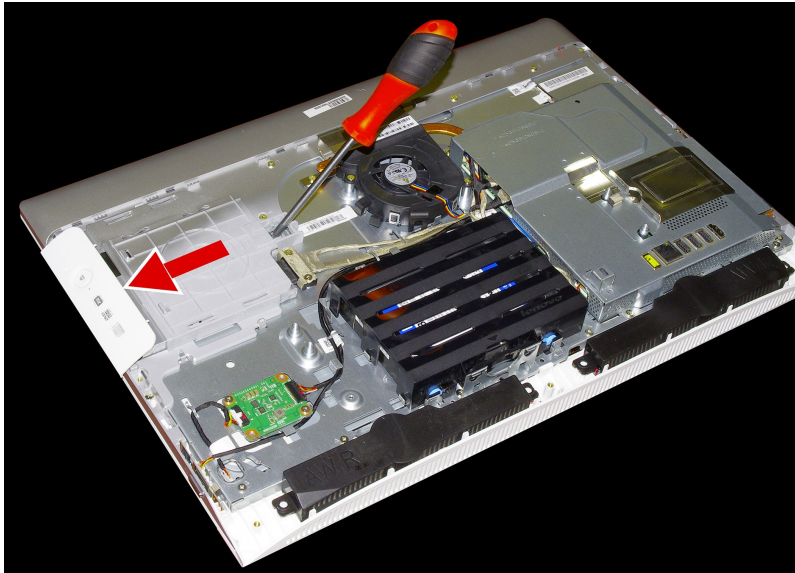
Replacing the optical drive

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

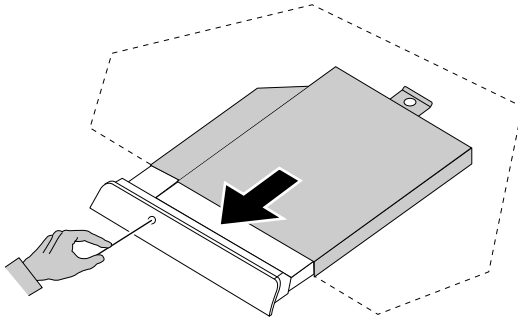
Note: It may be helpful to place the computer face-down on a soft flat surface for this procedure. Lenovo recommends that you use a blanket, towel, or other soft cloth to protect the touch screen from scratches or other damage.

- 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 stand holder. Refer to “Removing the stand holder”.
- Step 7. Remove the middle cover. Refer to “Removing the middle cover”.

Step 8. Locate the optical removal notch, and then use a screw driver push the optical drive out.



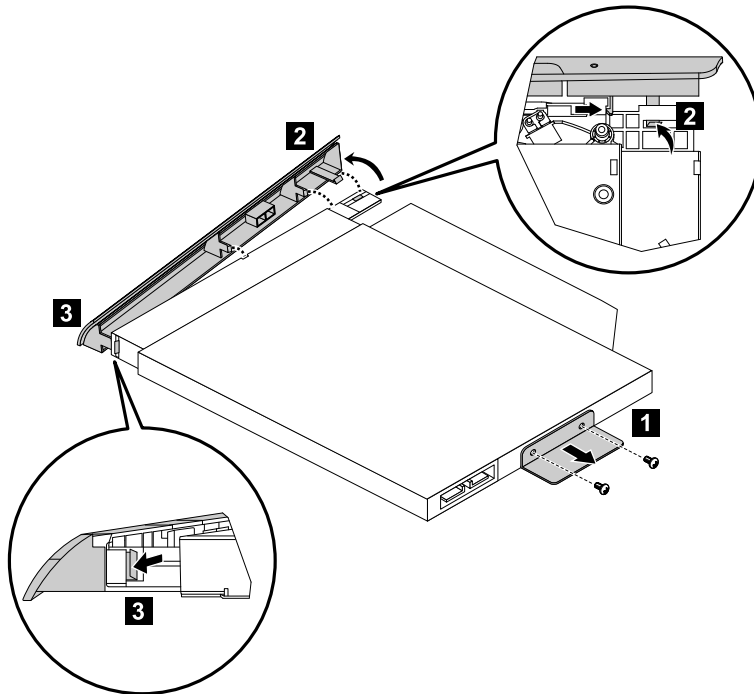
Step 9. Push a small iron stick (paper clip) into the small hole on the optical drive cover so that the disk springs out as shown.



Step 10. Remove the 2 screws that secure the optical drive to the metal bracket. **1**

Step 11. Use a small flat head screwdriver to press and push out the pins that secure the cover to the disk. **2 3**

Step 12. Separate the cover from the defective optical drive.



Step 13. 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 14. Reattach the foot cover and stand base.

Replacing the power switch board

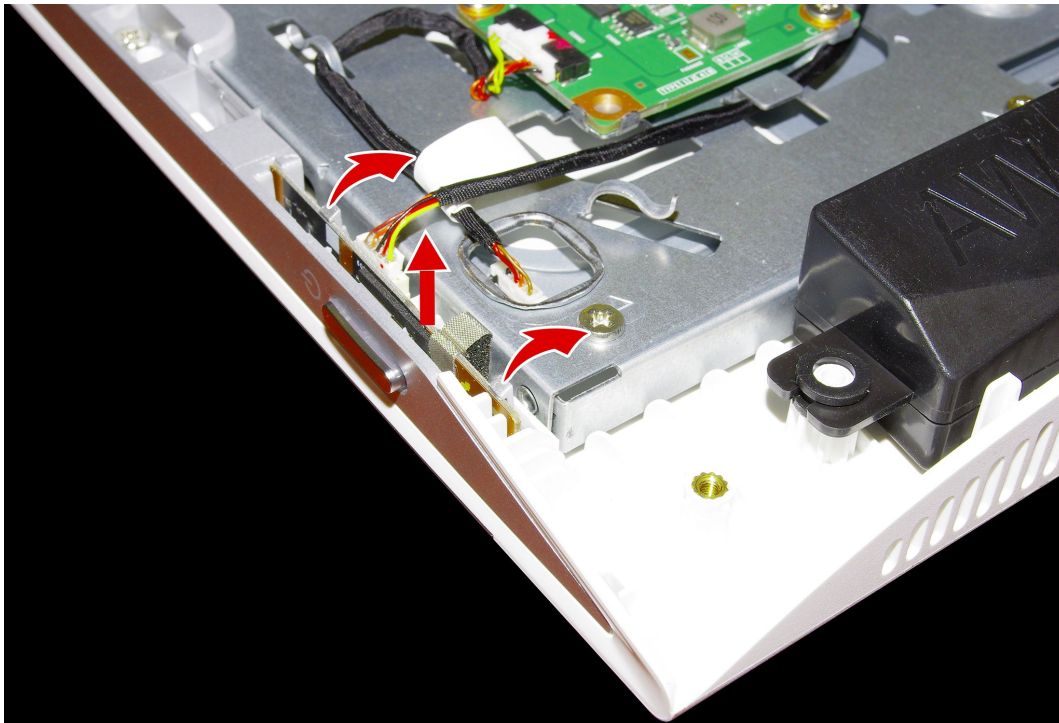
Note: Turn off the computer and wait 3 to 5 minutes to let it cool down before removing the cover.

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 stand holder. Refer to “Removing the stand holder”.
- Step 7. Remove the middle cover. Refer to “Removing the middle cover”.

- Step 8. Push the locking pin outward to release the power switch board, then lift up the power switch board to remove it. **1 2**
- Step 9. Disconnect the data cable from the power switch board.



- Step 10. To install the power switch board:
- Line up the notches on the new power switch board with the keys in the slot.
 - Secure the power switch board with the locking pin.
- Step 11. Reattach the middle cover, stand holder, foot cover and stand base.

Replacing the converter board

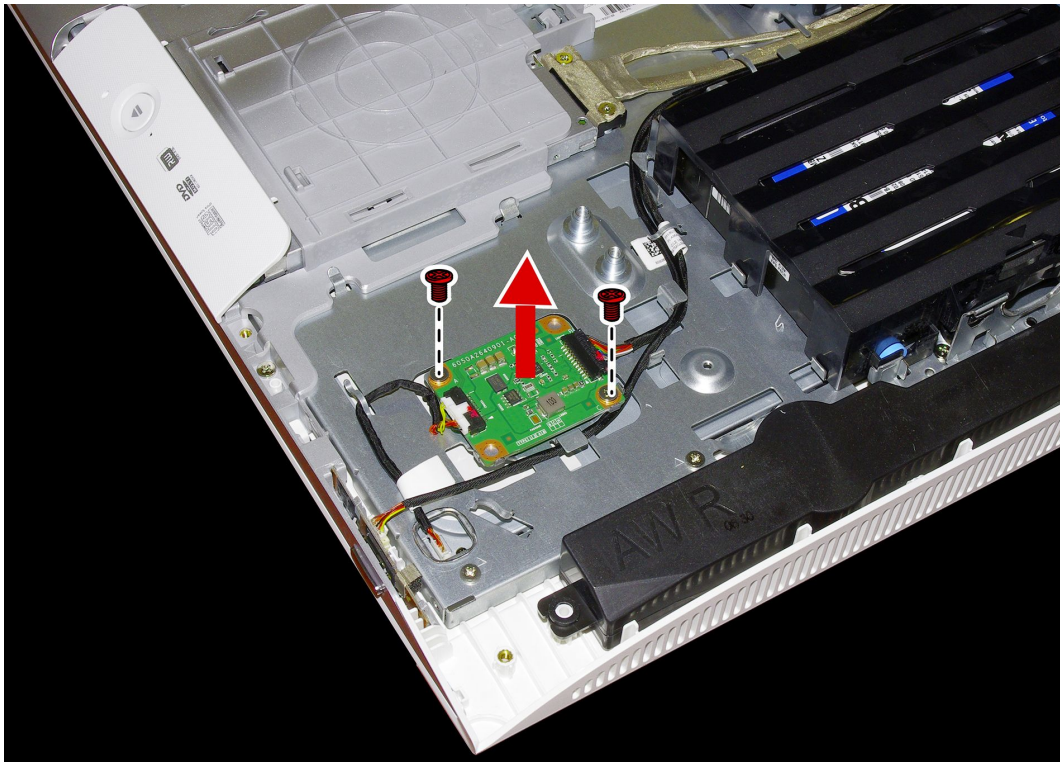
Note: Turn off the computer and wait 3 to 5 minutes to let it cool down before removing the cover.

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.
- Unplug all power cords from electrical outlets.
- 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.
- Remove the stand base. Refer to “Removing the stand base”.
- Remove the foot cover. Refer to “Removing the foot cover”.
- Remove the stand holder. Refer to “Removing the stand holder”.
- Remove the middle cover. Refer to “Removing the middle cover”.

- Step 8. Disconnect the two cables from the converter, and then remove the two screws that secure the converter board to the chassis.
- Step 9. Slide the converter board out to remove it.



- Step 10. To install the new converter board:
- Connect the two cables to the new converter board.
 - Align then slide the new converter board into position.
 - Secure the new converter board with the screw.
- Step 11. Reattach the middle cover, stand holder, foot cover and stand base.

Removing the EMI cover

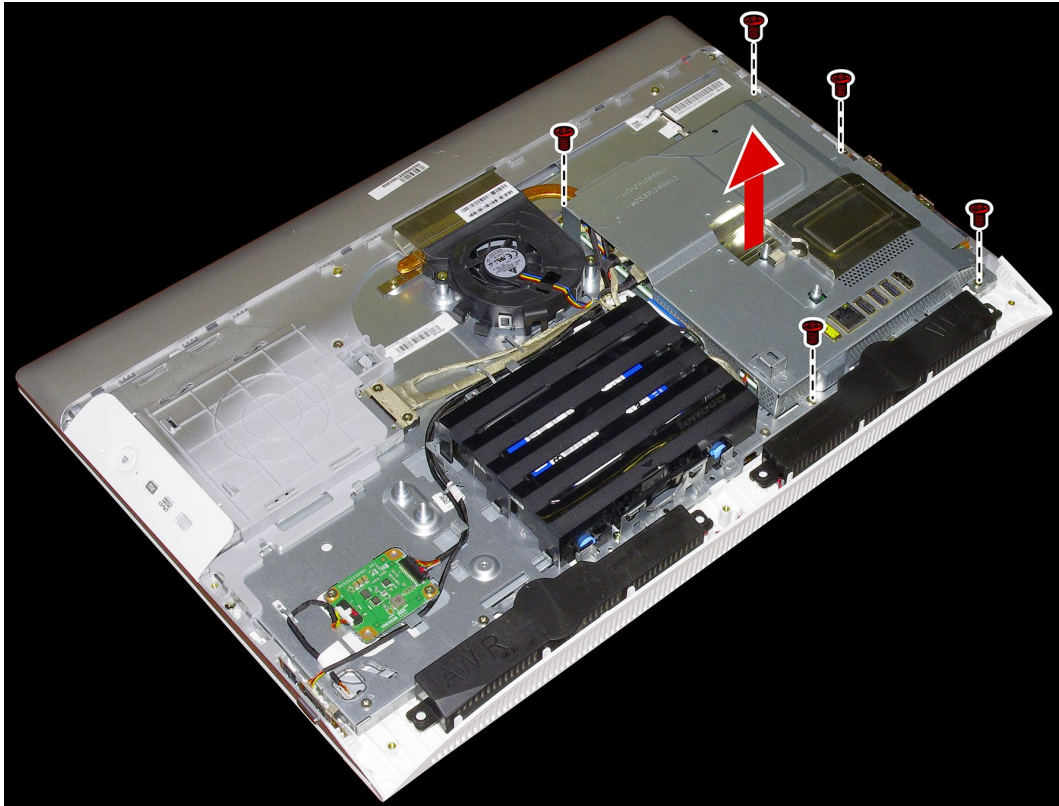
Note: Turn off the computer and wait 3 to 5 minutes to let it cool down before removing the cover.

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

- 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.
- Unplug all power cords from electrical outlets.
- 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.
- Remove the stand base. Refer to “Removing the stand base”.
- Remove the foot cover. Refer to “Removing the foot cover”.

- Step 6. Remove the stand holder. Refer to “Removing the stand holder”.
- Step 7. Remove the middle cover. Refer to “Removing the middle cover”.
- Step 8. Remove the five screws that secure the EMI cover to the chassis, and then lift it up.



- Step 9. 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.
 - Secure the EMI cover to the chassis with five screws.
- Step 10. Reattach the middle cover, 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 stand holder. Refer to “Removing the stand holder”.
- Step 7. Remove the middle cover. Refer to “Removing the middle cover”.
- Step 8. Remove the EMI cover. Refer to “Removing the EMI cover”.
- Step 9. Remove the sealing tape between the system fan and heat-sink.
- Step 10. Remove the two screws that secure the system fan to the chassis.
- Step 11. Disconnect the power cable from the motherboard.
- Step 12. Lift up the system fan to remove it.



- Step 13. 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 14. Reattach the EMI cover, middle cover, 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 stand holder. Refer to “Removing the stand holder”.
- Step 7. Remove the middle cover. Refer to “Removing the middle cover”.
- Step 8. Remove the EMI cover. Refer to “Removing the EMI cover”.
- Step 9. Remove the sealing tape between the system fan and heat-sink.
- Step 10. Remove the screws that secure the heat-sink to the motherboard and chassis.
- Step 11. Slide then 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 12. To install the new heat-sink:
 - a. Line up the new heat-sink with mounting holes on the motherboard, then place it into position.
 - b. Follow the numbers printed on the new heat-sink to secure it in order using the screws.
 - c. Use the sealing tape to seal the gap in-between the system fan and heat-sink.

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

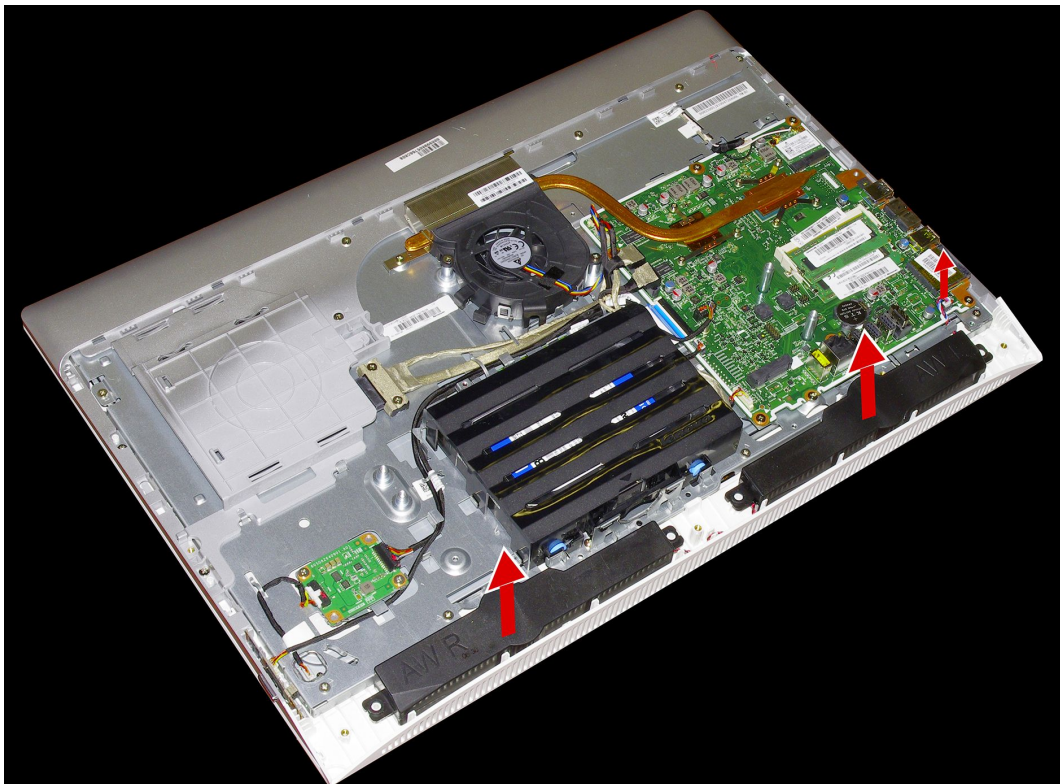
Replacing the speaker system

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 stand holder. Refer to “Removing the stand holder”.
- Step 7. Remove the middle cover. Refer to “Removing the middle cover”.
- Step 8. Remove the EMI cover. Refer to “Removing the EMI cover”.
- Step 9. Disconnect the speaker cables from the connector on the motherboard.
- Step 10. Remove the four screws that secure the speaker system to the chassis, then lift up the speaker system to remove it.



Step 11. To install the new speaker system:

- a. Place the new speaker system into position, then secure it with four screws.
- b. Connect the new speaker cables to the connector on the motherboard.

Step 12. Reattach the EMI cover, middle cover, 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 stand holder. Refer to “Removing the stand holder”.
- Step 7. Remove the middle cover. Refer to “Removing the middle cover”.
- Step 8. Remove the EMI cover. Refer to “Removing the EMI cover”.

- Step 9. Disconnect the antenna cables from the Wi-Fi card.
- Step 10. Remove the screw that secures the Wi-Fi card to the motherboard.
- Step 11. Lift up the Wi-Fi card to remove it from the socket.



- Step 12. To install the new Wi-Fi card:
- Insert the notched end of the Wi-Fi card into the card port on the motherboard.
 - Secure new the Wi-Fi card to the motherboard with the screw.
 - Connect the antenna cables to the new Wi-Fi card.
- Step 13. Reattach the EMI cover, middle cover, 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.

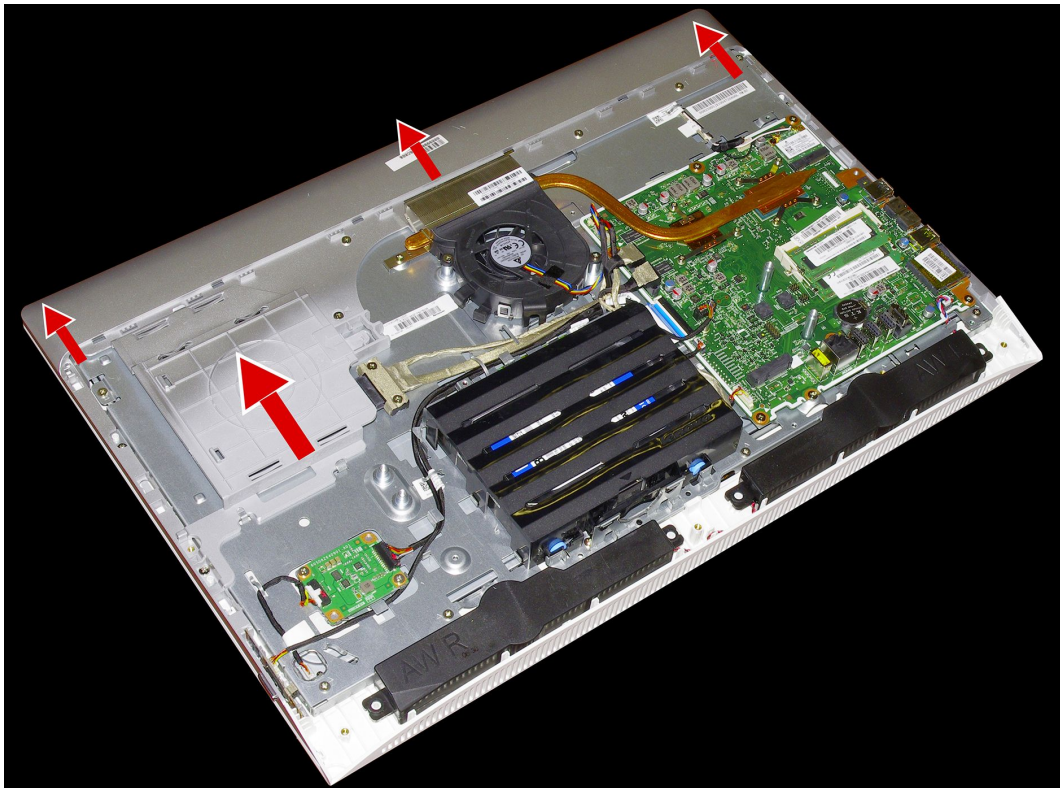
To remove the rear deco:

- 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 stand holder. Refer to “Removing the stand holder”.
- Step 7. Remove the middle cover. Refer to “Removing the middle cover”.
- Step 8. Remove the optical drive. Refer to “Replacing the optical drive”.
- Step 9. Remove the six screws that secure the rear deco to the chassis.



Step 10. Slide the rear deco upward to remove it.



Step 11. 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 six screws.

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

Replacing the motherboard

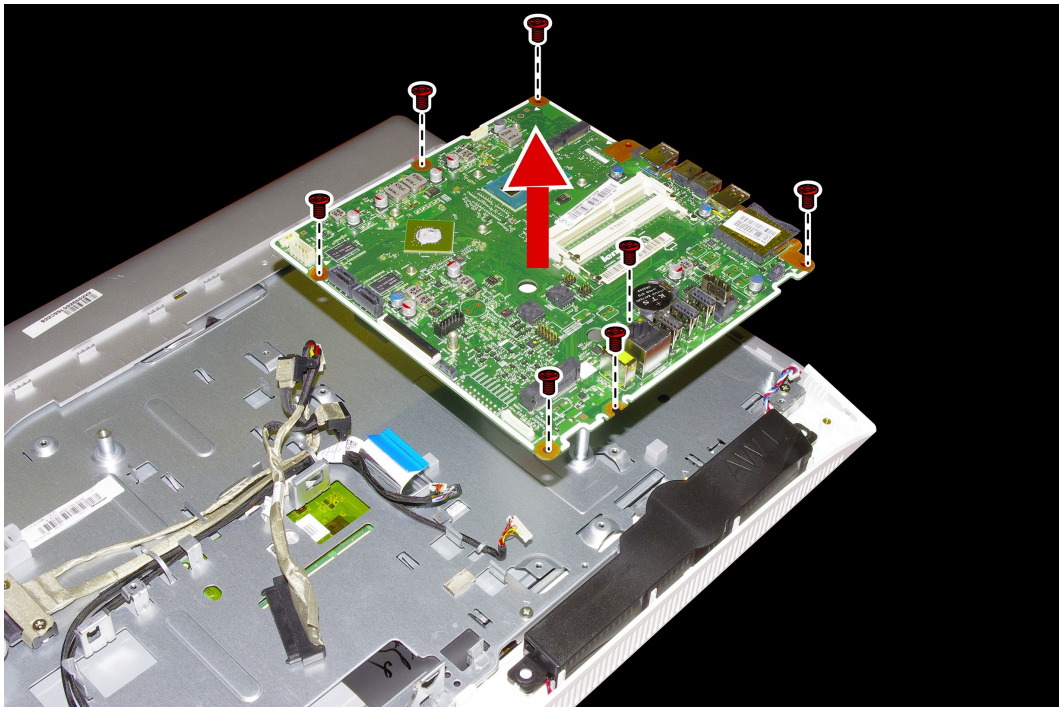
Note: Turn off the computer and wait 3 to 5 minutes to let it cool down before removing the cover.

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 stand holder. Refer to “Removing the stand holder”.

- Step 8. Remove the middle cover. Refer to “Removing the middle cover”.
- Step 9. Remove the optical drive. Refer to “Replacing the optical drive”.
- 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 Wi-Fi card. Refer to “Replacing the Wi-Fi card”.
- Step 13. Remove the seven screws that secure the motherboard to the chassis and lift the motherboard up to remove it.



- Step 14. To install the new motherboard:
- Line up the holes on the new motherboard with the mounting holes chassis and place the new motherboard into position.
 - Use the screws to secure the new motherboard to the chassis.
 - Connect all the cables to the new motherboard.
- Step 15. Install the following parts to the new motherboard:
- Wi-Fi card
 - TV-Tuner card
 - Heat-sink
 - Memory module
- Step 16. Reattach the EMI cover, middle cover, stand holder, foot cover and stand base.

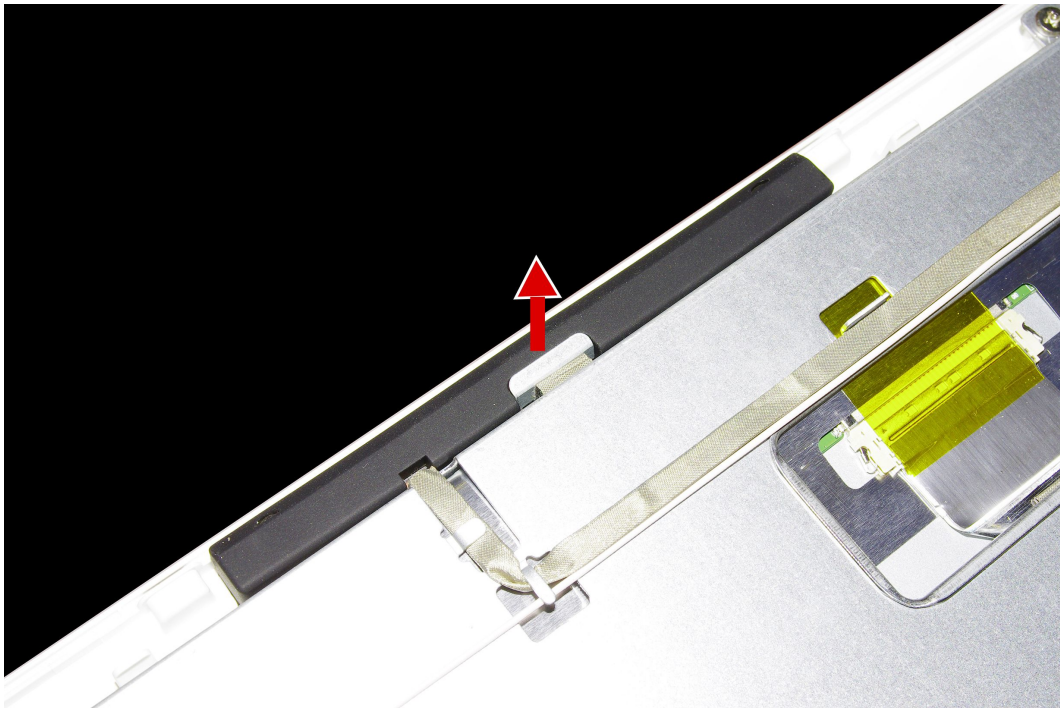
Replacing the camera

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.

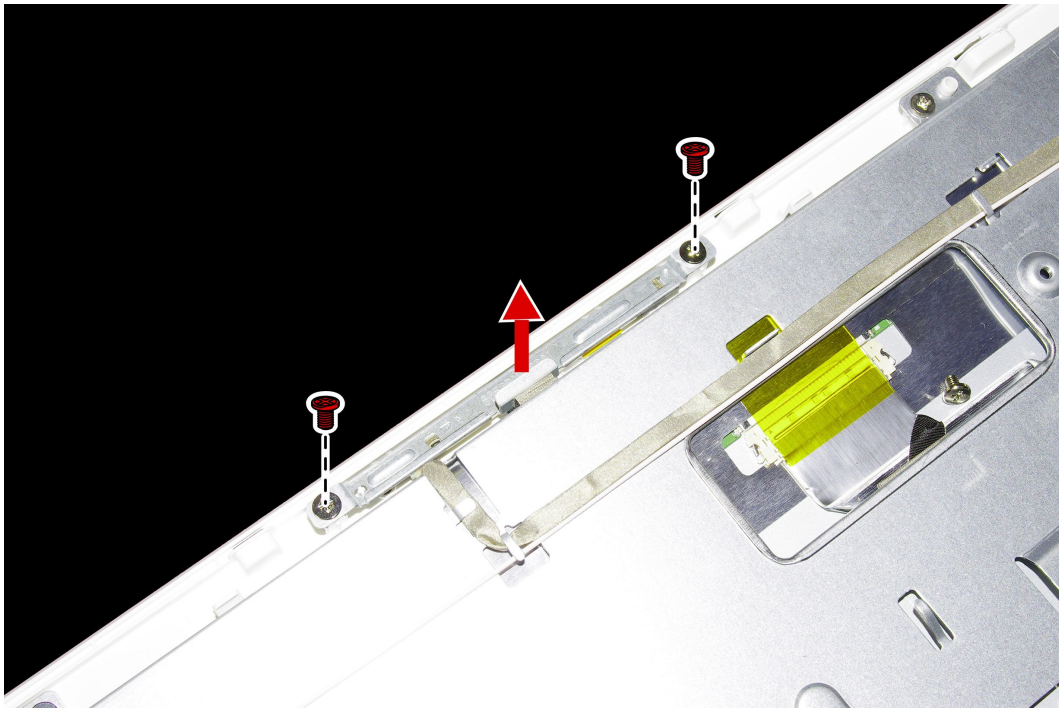
To replace the camera:

- 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. Removing the camera protecting rubber as shown..



1

Step 11. Remove the two screws that secure camera to the front bezel.



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

Step 13. To install the new camera:

- a. Connect the data cable to the new camera.
- b. Place the new camera into position, secure the camera to the front bezel with the two screws.

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

Replacing the LED panel module

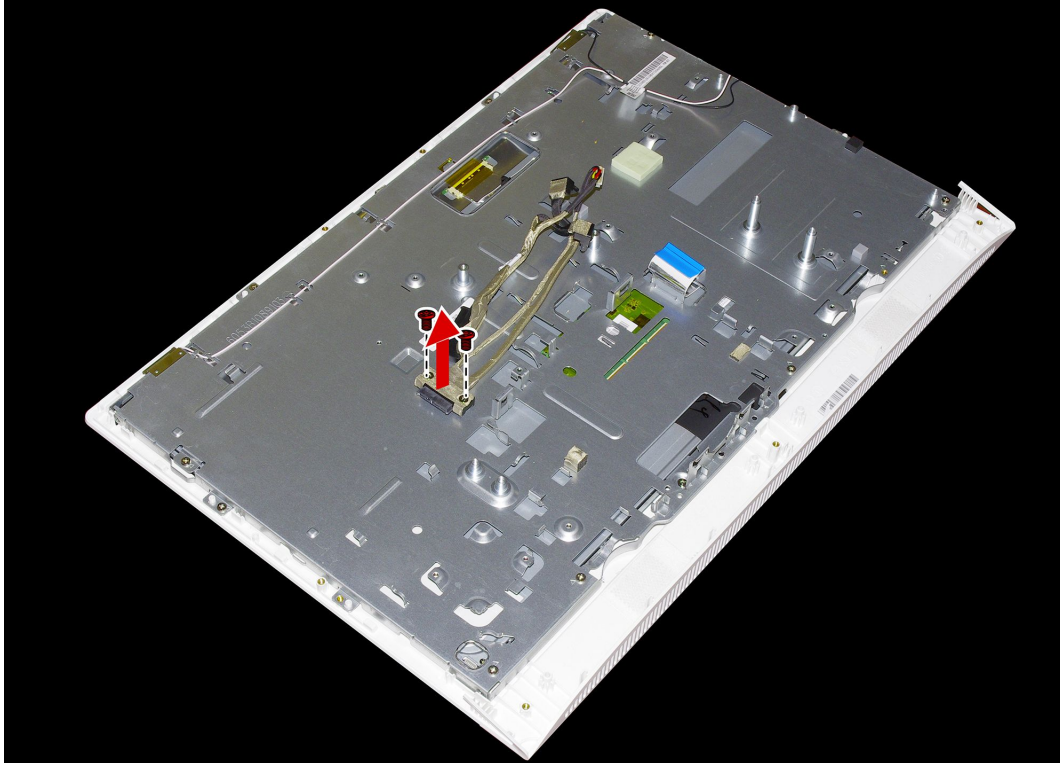
Note: Turn off the computer and wait 3 to 5 minutes to let it cool down before removing the cover.

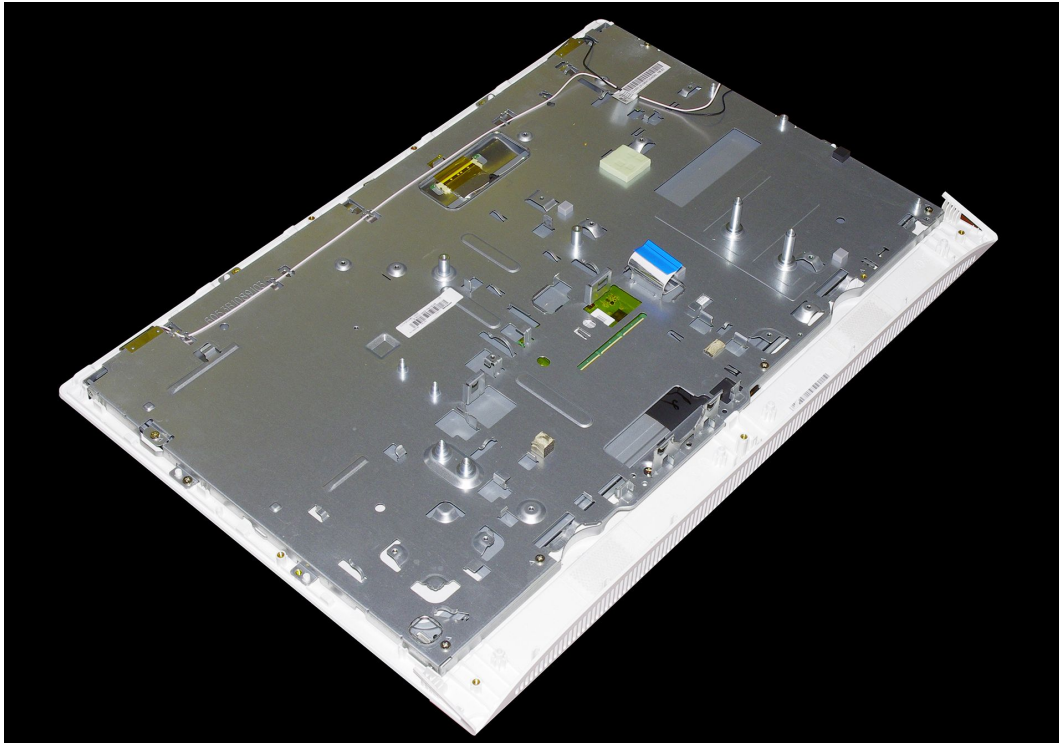
Note: It may be helpful to place the computer face-down on a soft flat surface for this procedure. Lenovo recommends that you use a blanket, towel, or other soft cloth to protect the computer screen from scratches or other damage.

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 stand holder. Refer to “Removing the stand holder”.
- Step 7. Remove the middle cover. Refer to “Removing the middle cover”.
- Step 8. Remove the optical drive. Refer to “Replacing the optical drive”.

- 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 heat-sink. Refer to “Replacing the heat-sink”.
- Step 12. Remove the speaker system. Refer to “Replacing the speaker system”.
- Step 13. Remove the motherboard. Refer to “Replacing the motherboard”.
- Step 14. Remove the rear deco. Refer to “Removing the rear deco”.
- Step 15. Remove the camera. Refer to “Replacing the camera”.
- Step 16. Remove the touch cable, converter cable and optical drive connector.





Step 17. To install the new the LED panel module:

The new LED panel module including:	<ol style="list-style-type: none"> 1. LED panel 2. LVDS cable 3. Touch control board and touch cable. (Touch model only)
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- a. Line up the optical drive connector with mounting holes on the chassis, and then secure connector with the two screws.
- b. Connect the converter cable to the connector on the LED panel.
- c. Connect the LVDS cable to the connector on the motherboard.
- d. Connect the touch control board cables to the connector on the touch control board.
- e. Attach the camera to the new LED module.
- f. Line up the rear deco with the guide track on the LED module, then slide the rear deco into position.
- g. Secure the rear deco to the new LED module with the six screws.
- h. Attach the speaker module to the new LED module.

Step 18. Reattach the motherboard, speaker system, heat-sink, system fan, EMI cover, optical drive, middle cover, computer stand, foot cover and stand base.

Chapter 8. FRU lists

This chapter lists the information on the field replaceable units (FRUs) for Lenovo C40-05 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	
	BDPLANAR		N
	T C4005 NOK A8-6410 UMA MB	5B20H08893	
	T C4005NOK A6-6310 W/HD_INUMAMB	5B20H08886	
	T C4005 NOK 1G A8-6410 DIS MB	5B20H08875	
	T C4005 NOK 1G A4-6210 DIS MB	5B20H08890	
	T C4005 W8P A8-6410 UMA MB	5B20H08876	
	T C4005W8P A6-6310 W/HD_INUMAMB	5B20H08892	
	T C4005 W8P 1G A8-6410 DIS MB	5B20H08883	
	T C4005 W8P 1G A4-6210 DIS MB	5B20H08878	
	T C4005 W8S A8-6410 UMA MB	5B20H14258	
	T C4005W8S A6-6310 W/HD_INUMAMB	5B20H14260	
	T C4005 W8S 1G A8-6410 DIS MB	5B20H14266	
	T C4005 W8S 1G A4-6210 DIS MB	5B20H14262	
	T C4005 NOK 1G E2-6110 DIS MB	5B20H15088	
	T C4005 W8S 1G E2-6110 DIS MB	5B20H15083	
	T C4005 W8P 1G E2-6110 DIS MB	5B20H15089	
	T C4005NOK A4-6210 W/HD_INUMAMB	5B20H15086	
	T C4005W8S A4-6210 W/HD_INUMAMB	5B20H15084	
	T C4005W8P A4-6210 W/HD_INUMAMB	5B20H15082	
	T C4005 NOK E2-6110 UMA MB	5B20H15087	
	T C4005 W8S E2-6110 UMA MB	5B20H15085	
	T C4005 W8P E2-6110 UMA MB	5B20H15081	
	CARDPOP		N
	Power Board T B4030	5C50G53305	
	Power Board T B4030 W/HDMI	5C50G53301	
	Converter Board T B4030	5C50G53291	

	MECHANICAL		
	MB EMIShield T C40-30 T2	5M20H09718	
	MBEMIShield TC40-30 W/HD_INT2	5M20H09711	
	MB EMIShield T C40-30 T1	5M20H09710	
	MBEMIShield T C40-30W/HD_INT1	5M20H09702	N
	Frame Middle T C40-30 T2	5M20H09694	
	Frame Middle T C40-30 T1	5M20H09688	
	Shielding HDD T B4030	5M20G53303	
	Cover DDR T B4030	5M20G53323	
	SPEAKERINT		
	Speaker T C40-30 3W	5SB0H09707	N
	BRACKET		
	Bracket Camera T B4030	5B40G53292	N
	Housing HDD T B4030	5B40G53343	
	FAN		
	FAN System T C40-05 DIS Delta	5F10G84762	N
	FAN System T C40-05 DIS Sunon	5F10G84739	
	CABLE		
	Antenna T C40-30	5A30H09706	
	Cable Converter to MB T B4030	5C10G53317	
	C460 Converter Board-Panel Cable For LG	90204769	
	Cable Converter/Panel T C40-30 AUO	5C10H09697	
	C360 Converter Board-Panel Cable For AUO	90204654	
	LVDS Cable T C40-30 LG	5C10H09698	N
	LVDS Cable T C40-30 AUO	5C10H09690	
	LVDS Cable T C40-30 CMI	5C10H09685	
	Cable Camera T C40-30	5C10H09732	
	Cable SATA ODD+HDDT B4030	5C10G53315	
	Cable Power Board T B4030	5C10G53328	
	COVER		
	Bezel Front T C40-30 T1 NT BLK	5CB0H09715	
	Bezel Front T C40-30 T1 NT WHT	5CB0H09708	
	Bezel Front T C40-30 T2 NT BLK	5CB0H09700	
	Bezel Front T C40-30 T2 NT WHT	5CB0H09693	
	Middle Cover T C40-30 T1 Dark	5CB0H09686	N
	Middle Cover T C40-30 W/HD T1 Dark	5CB0H09733	
	Middle Cover T C40-30 T1 Light	5CB0H09728	
	Middle Cover T C40-30 W/HD T1Light	5CB0H09725	
	Middle Cover T C40-30 T2 Dark	5CB0H09717	
	Middle Cover T C40-30 W/HD T2 Dark	5CB0H09724	

	Middle Cover T C40-30 T2 Light	5CB0H09716	
	Middle Cover T C40-30 W/HD T2Light	5CB0H09723	
	Rear Cover T C40-30 T1 BLK	5CB0H09735	
	Rear Cover T C40-30 W/HD T1 BLK	5CB0H09731	
	Rear Cover T C40-30 T1 WHT	5CB0H09727	
	Rear Cover T C40-30 W/HD T1 WHT	5CB0H09720	
	Rear Cover T C40-30 T2 BLK	5CB0H09713	
	Rear Cover T C40-30 W/HD T2 BLK	5CB0H09730	
	Rear Cover T C40-30 T2 WHT	5CB0H09726	
	Rear Cover T C40-30 W/HD T2 WHT	5CB0H09719	
	Slide Cover T C40-30 T1 BLK	5CB0H09709	
	Slide Cover T C40-30 W/HD T1 BLK	5CB0H09701	
	Slide Cover T C40-30 T1 WHT	5CB0H09692	
	Slide Cover T C40-30 W/HD T1 WHT	5CB0H09687	
	Bezel ODD T C40-30 T1 BLK	5CB0H09734	
	Bezel ODD T C40-30 T1 WHT	5CB0H09729	
	Bezel ODD T C40-30 T2 BLK	5CB0H09722	
	Bezel ODD T C40-30 T2 WHT	5CB0H09714	
	Stand Cover T C40-30 T2 BLK	5CB0H09699	
	Stand Cover T C40-30 T2 WHT	5CB0H09691	
	STAND		
	Stand Top T C40-30 T1 Dark/Silver	5SE0H09712	N
	Stand Top T C40-30 T1 Light/Silver	5SE0H09704	
	Stand Base T C40-30 T1 Dark/Silver	5SE0H09696	
	Stand Base T C40-30 T1Light/Silver	5SE0H09705	
	Stand T2 T C40-30 BLK	5SE0H09695	
	Stand T2 T C40-30 WHT	5SE0H09689	
	B540 ODD Locking Bracket	90200895	
	HEATSINK		
	HEATSINK T C40-05 DIS CM	5H40G84754	N
	HEATSINK T C40-05 UMA CM	5H40G84746	
	HEATSINK T C40-05 DIS TaiSol	5H40G84737	
	HEATSINK T C40-05 UMA TaiSol	5H40G84756	
	Display		
	LCDModule T C40-30 T1 TS BLK	5D10H09703	N
	LCDModule T C40-30 T1 TS WHT	5D10H09721	

	POWER		
	ADP-90XD BD	54Y8917	1
	PA-1900-72FA	54Y8917	
	DELTA ADP-120ZB BBHT common 120W adapter	36200439	
	Liteon PA-1121-04LB 120w common adapter	36200440	
	HDD		
	TSB Mars 4K 500G DT01ACA050 -LH	16200512	1
	Seagate Pharaoh 4K Non-MC ST500DM002 500G16M7200SATA6GHDD-LH	16200674	
	WDXL500A WD5000AAKX-08U6AA0 500G HDD-LH	16200544	
	3.5inch SATA6G 7.2K Grenada BP 2 1TB	16200688	
	TSB Mars 4K 1TB DT01ACA100 -LH	16200513	
	WD10EZEX-08M2NA0	16200613	
	3.5inch SATA6G 7.2K Grenada BP 2 2TB	16200689	
	TSB Mars 4K 2TB DT01ACA200 -LH	16200514	
	ODD		N
	PSN UJ8FB 9.5mm Tray Rambo w/o bezel	25215310	
	DU-8A5SH(LSOPU)	25214499	
	DU-8A6SH	00FC442	
	GUB0N	00FC442	
	RAM		1
	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	
	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	
	M471B5674QH0-YK0 2GB D3L-1600S Memory-HF	1100983	
	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	

	Wifi Combo		
	Liteon WB335 1x1BGN+BT4.0 HMC WLAN	20200437	N
	Cbt RTL8723BE 1x1BGN+BT HMC WLAN	20200440	
	CBT RTL8821AE 1x1ac BT combo HMC	20200571	
	LTN RTL8821AE 1x1ac+BT4.0 Combo HMC	11202485	
	Camera		
	AVC 720P 5821 Hi162 WB 1DM S Cam	20200643	N
	Bison 720P 5840 Hi162 WB 1DM S Cam	20200644	
	LT 720P 5840 Hi162 WB 1DM S Cam	20200667	
	KB & Mouse		
	Liteon SK-8861(US) 2.4G KB-Black8	25209175	1
	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	
	Liteon SK-8861(LA) 2.4G KB-Black8	25209184	
	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	
	Liteon SK-8861(SL) 2.4G KB-Black8	25209191	
	Liteon SK-8861(IT) 2.4G KB-Black8	25209192	
	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	
	Liteon SK-8861(KR) 2.4G KB-Black8	25209198	
	Liteon SK-8861(JP) 2.4G KB-Black8	25209199	
	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	
	Sunrex EKB-10YA(US) B-Silk USB KB-LVT8	25209111	

Primax KB4721(US) B-Silk USB KB-LVT8	25209112
Chicony KU-1153(US) B-Silk USB KB-LVT8	25209113
Doking DOK5321(US)B-Silk USB KB-LVT8	OOPC201
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
Sunrex EKB-10YA(IT) B-Silk USB KB-LVT8	25209128
Sunrex EKB-10YA(HB) B-Silk USB KB-LVT8	25209129
Sunrex EKB-10YA(FR) B-Silk USB KB-LVT8	25209130
Sunrex EKB-10YA(GK) B-Silk USB KB-LVT8	25209131
Sunrex EKB-10YA(HG) B-Silk USB KB-LVT8	25209132
Sunrex EKB-10YA(BG) B-Silk USB KB-LVT8	25209133
Sunrex EKB-10YA(HR) B-Silk USB KB-LVT8	25209134
Sunrex EKB-10YA(JP) B-Silk USB KB-LVT8	25209135
Sunrex EKB-10YA(EN-FR) B-S USB KB-LVT8	25209136
Sunrex EKB-10YA(PT) B-Silk USB KB-LVT8	25209137
Sunrex EKB-10YA(BE-EN) B-S USB KB-LVT8	25209138
Sunrex EKB-10YA(DU) B-S USB KB-LVT8	25209139
Sunrex EKB-10YA(US) W-Silk USB KB-LVT8	25209145
Primax KB4721(US) W-Silk USB KB-LVT8	25209146
Doking DOK5321(US)W-Silk USB KB-LVT8	OOPC202
Sunrex EKB-10YA(TW) W-Silk USB KB-LVT8	25209147
Sunrex EKB-10YA(TH) W-Silk USB KB-LVT8	25209148
Sunrex EKB-10YA(CZ-SL) W-S USB KB-LVT8	25209149
Sunrex EKB-10YA(IN) W-Silk USB KB-LVT8	25209150
Sunrex EKB-10YA(RU) W-Silk USB KB-LVT8	25209151
Sunrex EKB-10YA(UK) W-Silk USB KB-LVT8	25209152
Sunrex EKB-10YA(Nordic) W-S USB KB-LVT8	25209153
Sunrex EKB-10YA(LA) W-Silk USB KB-LVT8	25209154

Sunrex EKB-10YA(AR) W-Silk USB KB-LVT8	25209155
Sunrex EKB-10YA(SW) W-Silk USB KB-LVT8	25209156
Sunrex EKB-10YA(GE) W-Silk USB KB-LVT8	25209157
Sunrex EKB-10YA(TR) W-Silk USB KB-LVT8	25209158
Sunrex EKB-10YA(SP) W-Silk USB KB-LVT8	25209159
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	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(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-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
Liteon SK-8861(CS-SK) 2.4G KB-White8	25210991
Liteon SK-8861(US-IN) 2.4G KB-White8	25210992
Liteon SK-8861(RU) 2.4G KB-White8	25210993
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-AR) 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(DE) 2.4G KB-White8	25211000
Liteon SK-8861(TR) 2.4G KB-White8	25211001
Liteon SK-8861(ES) 2.4G KB-White8	25211002
Liteon SK-8861(SL) 2.4G KB-White8	25211003
Liteon SK-8861(IT) 2.4G KB-White8	25211004
Liteon SK-8861(IL) 2.4G KB-White8	25211005
Liteon SK-8861(FR) 2.4G KB-White8	25211006
Liteon SK-8861(GR) 2.4G KB-White8	25211007
Liteon SK-8861(HU) 2.4G KB-White8	25211008

Liteon SK-8861(BG) 2.4G KB-White8	25211009
Liteon SK-8861(KR) 2.4G KB-White8	25211010
Liteon SK-8861(JP) 2.4G KB-White8	25211011
Liteon SK-8861(EN-FR) 2.4G KB-White8	25211012
Liteon SK-8861(PT) 2.4G KB-White8	25211013
Liteon SK-8861(BE-EN) 2.4G KB-White8	25211014
Liteon SK-8861(US-EU) 2.4G KB-White8	25211015
Liteon LXH-SM-8825 B-Silk Mouse	25200528
Chicony LXH-MSU-1111 B-Silk Mouse	25200529
Sunrex LXH-EMS-10ZA B-Silk Mouse	25200530
Sunrex LXH-EMS-10ZA W-Silk Mouse	25201322
Liteon LXH-SM-8825 W-Silk Mouse	25201068
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(MY) White	25211018
Liteon SM-8861 2.4G Mouse(No Battery)WTE	25211017
Liteon SM-8861 2.4G Mouse(JP) White	25211019
Power Cord	
Longwell B LACK single head 1.0M 3wire ULCSA Power Cord	31033857
Volex 1.0M C5 US Power Cord	31033858
Luxshare 1.0M C5 US Power Cord	31049517
Longwell B LACK single head 1.0M SAA Power Cord	31035397
Volex 1.0M C5 Macao Power Cord	31049500
Luxshare 1.0M C5 Macao Power Cord	31049520
Longwell 1.0M C5 2pin Japan Power Cord	31503423
Volex 1.0M C5 2pin Japan Power Cord	31503424
Luxshare 1.0M C5 2pin Japan Power Cord	31503425
Grandsun B LACK single head 1.0M 3wire CCC Power Cord(R)	31032953
Luxshare 1.0M C5 CCC Power Cord	31045147
Longwell B LACK single head 1.0M ASTA Power Cord	31035396
Volex 1.0M C5 UK Power Cord	31049496
Luxshare 1.0M C5 UK Power Cord	31503352
Longwell B LACK single head 1.0M VDE Power Cord	31035332
Volex 1.0M C5 Europe Power Cord	31049497
Luxshare 1.0M C5 Europe Power Cord	31049518
Longwell B LACK single head 1.0M India Power Cord	31035395
Luxshare 1.0M C5 India Power Cord	31503353

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
Luxshare 1.0M C5 Taiwan Power Cord	31503354
Longwell B LAck single head 1.0M Korea C5 Power Cord®	31039106
Volex 1.0M C5 Korea Power Cord	31049498
Luxshare 1.0M C5 Korea Power Cord	31503358
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. FRU lists

This chapter lists the information on the field replaceable units (FRUs) for Lenovo C40-30 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	
	BDPLANAR		
	T C4030NOKi3-4005U W/HD_INUMAMB	5B20H08889	
	T C4030 NOK i3-4005U UMA MB	5B20H08882	
	T C4030NOK 3558U W/HD_IN UMA MB	5B20H08885	
	T C4030 NOK 1G i5-4210U DIS MB	5B20H08874	
	T C4030 NOK 1G i3-4005U DIS MB	5B20H08877	
	T C4030 NOK 1G 3558U DIS MB	5B20H08880	
	T C4030W8Pi3-4005U W/HD_INUMAMB	5B20H08881	
	T C4030 W8P i3-4005U UMA MB	5B20H08887	
	T C4030W8P 3558U W/HD_IN UMA MB	5B20H08891	
	T C4030 W8P 1G i5-4210U DIS MB	5B20H08879	
	T C4030 W8P 1G i3-4005U DIS MB	5B20H08884	
	T C4030 W8P 1G 3558U DIS MB	5B20H08888	
	T C4030 NOK 2G I3-4025U DIS MB	5B20H13085	N
	T C4030 W8P 2G I3-4025U DIS MB	5B20H13083	
	T C4030 NOK P_3558U UMA MB	5B20H13086	
	T C4030 W8P P_3558U UMA MB	5B20H13081	
	T C4030 NOK C_2957U UMA MB	5B20H13082	
	T C4030 W8P C_2957U UMA MB	5B20H13084	
	T C4030W8Si3-4005U W/HD_INUMAMB	5B20H14257	
	T C4030 W8S i3-4005U UMA MB	5B20H14265	
	T C4030W8S 3558U W/HD_IN UMA MB	5B20H14263	
	T C4030 W8S 1G i5-4210U DIS MB	5B20H14256	
	T C4030 W8S 1G i3-4005U DIS MB	5B20H14267	
	T C4030 W8S 1G 3558U DIS MB	5B20H14264	
	T C4030 W8S 2G I3-4025U DIS MB	5B20H14268	
	T C4030 W8S P_3558U UMA MB	5B20H14259	

	T C4030 W8S C_2957U UMA MB	5B20H14261	
	CARDPOP		N
	Power Board T B4030	5C50G53305	
	Power Board T B4030 W/HDMI	5C50G53301	
	Converter Board T B4030	5C50G53291	
	MECHANICAL		N
	MB EMIShield T C40-30 T2	5M20H09718	
	MBEMIShield TC40-30 W/HD_INT2	5M20H09711	
	MB EMIShield T C40-30 T1	5M20H09710	
	MBEMIShield T C40-30W/HD_INT1	5M20H09702	
	Frame Middle T C40-30 T2	5M20H09694	
	Frame Middle T C40-30 T1	5M20H09688	
	Shielding HDD T B4030	5M20G53303	
	Cover DDR T B4030	5M20G53323	
	STAND		N
	Stand Top T C40-30 T1 Dark/Silver	5SE0H09712	
	Stand Top T C40-30 T1 Light/Silver	5SE0H09704	
	Stand Base T C40-30 T1 Dark/Silver	5SE0H09696	
	Stand Base T C40-30 T1Light/Silver	5SE0H09705	
	Stand T2 T C40-30 BLK	5SE0H09695	
	Stand T2 T C40-30 WHT	5SE0H09689	
	B540 ODD Locking Bracket	90200895	
	SPEAKERINT		N
	Speaker T C40-30 3W	5SB0H09707	
	BRACKET		N
	Bracket Camera T B4030	5B40G53292	
	Housing HDD T B4030	5B40G53343	
	CABLE		N
	Antenna T C40-30	5A30H09706	
	Cable Converter to MB T B4030	5C10G53317	
	C460 Converter Board-Panel Cable For LG	90204769	
	Cable Converter/Panel T C40-30 AUO	5C10H09697	
	C360 Converter Board-Panel Cable For AUO	90204654	
	LVDS Cable T C40-30 LG	5C10H09698	
	LVDS Cable T C40-30 AUO	5C10H09690	
	LVDS Cable T C40-30 CMI	5C10H09685	
	Cable Camera T C40-30	5C10H09732	
	Cable SATA ODD+HDDT B4030	5C10G53315	
	Cable Power Board T B4030	5C10G53328	

COVER			
Bezel Front T C40-30 T1 NT BLK	5CB0H09715		
Bezel Front T C40-30 T1 NT WHT	5CB0H09708		
Bezel Front T C40-30 T2 NT BLK	5CB0H09700		
Bezel Front T C40-30 T2 NT WHT	5CB0H09693		
Middle Cover T C40-30 T1 Dark	5CB0H09686		
Middle Cover T C40-30 W/HD T1 Dark	5CB0H09733		
Middle Cover T C40-30 T1 Light	5CB0H09728		
Middle Cover T C40-30 W/HD T1Light	5CB0H09725		
Middle Cover T C40-30 T2 Dark	5CB0H09717		
Middle Cover T C40-30 W/HD T2 Dark	5CB0H09724		
Middle Cover T C40-30 T2 Light	5CB0H09716		
Middle Cover T C40-30 W/HD T2Light	5CB0H09723		
Rear Cover T C40-30 T1 BLK	5CB0H09735		
Rear Cover T C40-30 W/HD T1 BLK	5CB0H09731		
Rear Cover T C40-30 T1 WHT	5CB0H09727		N
Rear Cover T C40-30 W/HD T1 WHT	5CB0H09720		
Rear Cover T C40-30 T2 BLK	5CB0H09713		
Rear Cover T C40-30 W/HD T2 BLK	5CB0H09730		
Rear Cover T C40-30 T2 WHT	5CB0H09726		
Rear Cover T C40-30 W/HD T2 WHT	5CB0H09719		
Slide Cover T C40-30 T1 BLK	5CB0H09709		
Slide Cover T C40-30 W/HD T1 BLK	5CB0H09701		
Slide Cover T C40-30 T1 WHT	5CB0H09692		
Slide Cover T C40-30 W/HD T1 WHT	5CB0H09687		
Bezel ODD T C40-30 T1 BLK	5CB0H09734		
Bezel ODD T C40-30 T1 WHT	5CB0H09729		
Bezel ODD T C40-30 T2 BLK	5CB0H09722		
Bezel ODD T C40-30 T2 WHT	5CB0H09714		
Stand Cover T C40-30 T2 BLK	5CB0H09699		
Stand Cover T C40-30 T2 WHT	5CB0H09691		
FAN			
FAN System T C40-30 Delta	5F10G84752		N
FAN System T C40-30 Sunon	5F10G84748		
DISPLAY			
LCDModule T C40-30 T1 TS BLK	5D10H09703		N
LCDModule T C40-30 T1 TS WHT	5D10H09721		

	HEATSINK		N
	HEATSINK T C40-30 DIS CM	5H40G84741	
	HEATSINK T C40-30 UMA CM	5H40G84758	
	HEATSINK T C40-30 DIS TaiSol	5H40G84759	
	HEATSINK T C40-30 UMA TaiSol	5H40G84751	
	POWER		1
	ADP-90XD BD	54Y8917	
	PA-1900-72FA	54Y8917	
	DELTA ADP-120ZB BBHT common 120W adapter	36200439	
	Liteon PA-1121-04LB 120w common adapter	36200440	
	HDD		1
	TSB Mars 4K 500G DT01ACA050 -LH	16200512	
	Seagate Pharaoh 4K Non-MC ST500DM002 500G16M7200SATA6GHDD-LH	16200674	
	WDXL500A WD5000AAKX-08U6AA0 500G HDD-LH	16200544	
	3.5inch SATA6G 7.2K Grenada BP 2 1TB	16200688	
	TSB Mars 4K 1TB DT01ACA100 -LH	16200513	
	WD10EZEX-08M2NA0	16200613	
	3.5inch SATA6G 7.2K Grenada BP 2 2TB	16200689	
	TSB Mars 4K 2TB DT01ACA200 -LH	16200514	
	ODD		N
	PSN UJ8FB 9.5mm Tray Rambo w/o bezel	25215310	
	DU-8A5SH(LSOPU)	25214499	
	DU-8A6SH	00FC442	
	GUB0N	00FC442	
	RAM		1
	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	
	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	
M471B5674QH0-YK0 2GB D3L-1600S Memory-HF	1100983		

	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	
	Wifi Combo		
	Liteon WB335 1x1BGN+BT4.0 HMC WLAN	20200437	N
	Cbt RTL8723BE 1x1BGN+BT HMC WLAN	20200440	
	CBT RTL8821AE 1x1ac BT combo HMC	20200571	
	LTN RTL8821AE 1x1ac+BT4.0 Combo HMC	11202485	
	Camera		
	AVC 720P 5821 Hi162 WB 1DM S Cam	20200643	N
	Bison 720P 5840 Hi162 WB 1DM S Cam	20200644	
	LT 720P 5840 Hi162 WB 1DM S Cam	20200667	
	KB & Mouse		
	Liteon SK-8861(US) 2.4G KB-Black8	25209175	1
	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	
	Liteon SK-8861(LA) 2.4G KB-Black8	25209184	
	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	
	Liteon SK-8861(SL) 2.4G KB-Black8	25209191	
	Liteon SK-8861(IT) 2.4G KB-Black8	25209192	
	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	
	Liteon SK-8861(KR) 2.4G KB-Black8	25209198	
	Liteon SK-8861(JP) 2.4G KB-Black8	25209199	

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
Sunrex EKB-10YA(US) B-Silk USB KB-LVT8	25209111
Primax KB4721(US) B-Silk USB KB-LVT8	25209112
Chicony KU-1153(US) B-Silk USB KB-LVT8	25209113
Doking DOK5321(US)B-Silk USB KB-LVT8	OOPC201
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
Sunrex EKB-10YA(IT) B-Silk USB KB-LVT8	25209128
Sunrex EKB-10YA(HB) B-Silk USB KB-LVT8	25209129
Sunrex EKB-10YA(FR) B-Silk USB KB-LVT8	25209130
Sunrex EKB-10YA(GK) B-Silk USB KB-LVT8	25209131
Sunrex EKB-10YA(HG) B-Silk USB KB-LVT8	25209132
Sunrex EKB-10YA(BG) B-Silk USB KB-LVT8	25209133
Sunrex EKB-10YA(HR) B-Silk USB KB-LVT8	25209134
Sunrex EKB-10YA(JP) B-Silk USB KB-LVT8	25209135
Sunrex EKB-10YA(EN-FR) B-S USB KB-LVT8	25209136
Sunrex EKB-10YA(PT) B-Silk USB KB-LVT8	25209137
Sunrex EKB-10YA(BE-EN) B-S USB KB-LVT8	25209138
Sunrex EKB-10YA(DU) B-S USB KB-LVT8	25209139
Sunrex EKB-10YA(US) W-Silk USB KB-LVT8	25209145
Primax KB4721(US) W-Silk USB KB-LVT8	25209146
Doking DOK5321(US)W-Silk USB KB-LVT8	OOPC202
Sunrex EKB-10YA(TW) W-Silk USB KB-LVT8	25209147
Sunrex EKB-10YA(TH) W-Silk USB KB-LVT8	25209148
Sunrex EKB-10YA(CZ-SL) W-S USB KB-LVT8	25209149

Sunrex EKB-10YA(IN) W-Silk USB KB-LVT8	25209150
Sunrex EKB-10YA(RU) W-Silk USB KB-LVT8	25209151
Sunrex EKB-10YA(UK) W-Silk USB KB-LVT8	25209152
Sunrex EKB-10YA(Nordic) W-S USB KB-LVT8	25209153
Sunrex EKB-10YA(LA) W-Silk USB KB-LVT8	25209154
Sunrex EKB-10YA(AR) W-Silk USB KB-LVT8	25209155
Sunrex EKB-10YA(SW) W-Silk USB KB-LVT8	25209156
Sunrex EKB-10YA(GE) W-Silk USB KB-LVT8	25209157
Sunrex EKB-10YA(TR) W-Silk USB KB-LVT8	25209158
Sunrex EKB-10YA(SP) W-Silk USB KB-LVT8	25209159
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	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(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-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
Liteon SK-8861(CS-SK) 2.4G KB-White8	25210991
Liteon SK-8861(US-IN) 2.4G KB-White8	25210992
Liteon SK-8861(RU) 2.4G KB-White8	25210993
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-AR) 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(DE) 2.4G KB-White8	25211000
Liteon SK-8861(TR) 2.4G KB-White8	25211001
Liteon SK-8861(ES) 2.4G KB-White8	25211002
Liteon SK-8861(SL) 2.4G KB-White8	25211003

Liteon SK-8861(IT) 2.4G KB-White8	25211004	
Liteon SK-8861(IL) 2.4G KB-White8	25211005	
Liteon SK-8861(FR) 2.4G KB-White8	25211006	
Liteon SK-8861(GR) 2.4G KB-White8	25211007	
Liteon SK-8861(HU) 2.4G KB-White8	25211008	
Liteon SK-8861(BG) 2.4G KB-White8	25211009	
Liteon SK-8861(KR) 2.4G KB-White8	25211010	
Liteon SK-8861(JP) 2.4G KB-White8	25211011	
Liteon SK-8861(EN-FR) 2.4G KB-White8	25211012	
Liteon SK-8861(PT) 2.4G KB-White8	25211013	
Liteon SK-8861(BE-EN) 2.4G KB-White8	25211014	
Liteon SK-8861(US-EU) 2.4G KB-White8	25211015	
Liteon LXH-SM-8825 B-Silk Mouse	25200528	
Chicony LXH-MSU-1111 B-Silk Mouse	25200529	
Sunrex LXH-EMS-10ZA B-Silk Mouse	25200530	
Sunrex LXH-EMS-10ZA W-Silk Mouse	25201322	
Liteon LXH-SM-8825 W-Silk Mouse	25201068	
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(MY) White	25211018	
Liteon SM-8861 2.4G Mouse(No Battery)WTE	25211017	
Liteon SM-8861 2.4G Mouse(JP) White	25211019	
Power Cord		
Longwell B LAck single head 1.0M 3wire ULCSA Power Cord	31033857	
Volex 1.0M C5 US Power Cord	31033858	
Luxshare 1.0M C5 US Power Cord	31049517	
Longwell B LAck single head 1.0M SAA Power Cord	31035397	
Volex 1.0M C5 Macao Power Cord	31049500	
Luxshare 1.0M C5 Macao Power Cord	31049520	
Longwell 1.0M C5 2pin Japan Power Cord	31503423	1
Volex 1.0M C5 2pin Japan Power Cord	31503424	
Luxshare 1.0M C5 2pin Japan Power Cord	31503425	
Grandsun B LAck single head 1.0M 3wire CCC Power Cord(R)	31032953	
Luxshare 1.0M C5 CCC Power Cord	31045147	
Longwell B LAck single head 1.0M ASTA Power Cord	31035396	
Volex 1.0M C5 UK Power Cord	31049496	
Luxshare 1.0M C5 UK Power Cord	31503352	

Longwell B LAck single head 1.0M VDE Power Cord	31035332
Voilex 1.0M C5 Europe Power Cord	31049497
Luxshare 1.0M C5 Europe Power Cord	31049518
Longwell B LAck single head 1.0M India Power Cord	31035395
Luxshare 1.0M C5 India Power Cord	31503353
Longwell B LAck single head 1.0M Italy C5 Power Cord®	31039104
Voilex 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
Voilex 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
Voilex 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
Voilex 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
Voilex 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
Voilex 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
Voilex 1.0M C5 Taiwan Power Cord	31049499
Luxshare 1.0M C5 Taiwan Power Cord	31503354
Longwell B LAck single head 1.0M Korea C5 Power Cord®	31039106
Voilex 1.0M C5 Korea Power Cord	31049498
Luxshare 1.0M C5 Korea Power Cord	31503358
Longwell B LAck single head 1.0M SA C5 Power Cord®	31039105
Voilex 1.0M C5 South Africa Power Cord	31049501
Luxshare 1.0M C5 South Africa Power Cord	31503355

Chapter 10. 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.